

WESTMORE OAKS  
SCHOOL

NEW BLDGS F & G AND BLDG M ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691  
WASHINGTON UNIFIED SCHOOL DISTRICT

DSA File No. 57-31  
App. No. 02-117622  
PTN. 72694-115

NEW BUILDINGS F & G

BUILDING M ADDITION

DSA REQUIREMENTS	DEFERRED APPROVALS	PROJECT DESCRIPTION
<div><div>1. ALL WORK SHALL CONFORM TO THE 2016 EDITION OF THE TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).</div><div>2. AS A FACILITY WHICH COMES UNDER THE APPROVAL AND AUTHORITY OF THE DIVISION OF THE STATE ARCHITECT (DSA), THIS PROJECT IS SUBJECT TO DRAWING AND JOB SITE REVIEW BY A REPRESENTATIVE OF DSA.</div><div>3. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.</div><div>4. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES CCR GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.</div><div>6. A COPY OF PARTS 1 TO PART 5 OF TITLE 24 SHALL BE KEPT AND AVAILABLE IN THE FIELD DURING CONSTRUCTION.</div><div>7. DSA SHALL BE NOTIFIED OF THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24, CCR.</div><div>8. THE DIVISION OF THE STATE ARCHITECT IS EXEMPT FROM ARBITRATION OR MEDIATION PROCEDURES.</div><div>9. SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT IS PER SECTION 4-334, PART 1, TITLE 24, CCR.</div><div>10. ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, CCR:<ul style="list-style-type: none"><li>VERIFIED REPORTS PER SECT 4-336, PART 1, TITLE 24 CCR</li><li>DUTIES OF ARCHITECT PER SECT 4-331, 4-341, PART 1, TITLE 24 CCR</li><li>DUTIES OF CONTRACTOR PER SECT. 4-343, PART 1, TITLE 24 CCR</li></ul></div><div>11. TESTING AND INSPECTION:<ul style="list-style-type: none"><li>INSPECTION APPROVED BY DSA AS PER SECT. 4-333(D); PART 1, TITLE 24, CCR</li><li>TESTS AND TESTING LABORATORIES PER SECT 4-335</li><li>SPECIAL INSPECTION PER SECT. 4-333(C)</li></ul></div><div>12. CHANGES IN LEVEL FOR FLOOR FINISHES SHALL CONFORM WITH CBC SECTION 1124B.2 AND 1124B.3.</div><div>13. ALL TESTS TO CONFORM TO REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, CCR.</div><div>14. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335, PART 1, TITLE 24, CCR AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OR RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR.</div><div>15. INSPECTOR SHALL BE APPROVED BY DSA. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333(B).</div><div>16. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE SCHOOL BUILDING IN ACCORDANCE WITH TITLE 24, CCR SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, WHEREIN THE FINISH WORK WILL NOT COMPLY WITH SAID TITLE 24, CCR, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.</div><div>17. INSPECTOR OF RECORD REQUIREMENTS:<div>A. ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTOR'S DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24, PART 1 AND IN ADDITION, SHALL BE IMPLICATED IN INTERPRETATION OF REGULATION DOCUMENT R A-8.</div><div>B. INSPECTOR SHALL BE CERTIFIED AS A CLASS 2 INSPECTOR THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPECTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE START OF ANY WORK FOR THIS PROJECT.</div></div></div>	<div>1. NONE</div> <div>ALTERNATES</div> <div>1. NONE</div> <div>STATEMENT OF GENERAL CONFORMANCE</div> <div>FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS</div> <div>Application No. 02-117622</div> <div>File No. 57-31</div> <div><div><div>[X] The drawings or sheets listed on the cover or index sheet (all M, E and FA drawings)</div><div>[ ] This drawing, page of specifications/calculations</div></div><div>have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:<div><div>1. design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and</div><div>2. coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.</div></div></div><div>The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17202 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1, (Title 24, Part 1, Section 4-317 (b))</div><div>I find that:<div><div>[X] All drawings or sheets listed on the cover or index sheet</div><div>[ ] This drawing or page</div></div><div>[X] is/are in general conformance with the project design and</div><div>[X] has/have been coordinated with the project plans and specifications</div></div><div><div>Signature</div><div>Date</div></div><div>Architect or Engineer designated to be in general responsible charge.</div><div>Brian P. Whitmore Print Name</div><div>C.30345 License Number</div><div>09-30-2019 Expiration Date</div><div>APPLICABLE FEDERAL CODES AND STANDARDS:<div>13. AMERICANS WITH DISABILITIES ACT (ADA), TITLE 11</div><div>14. UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) or ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)</div></div><div>APPLICABLE REFERENCED STANDARDS:<div>15. NFPA 24, PRIVATE FIRE MAINS (CA AMENDED), 2016 EDITION</div><div>16. NFPA 72, NATIONAL FIRE ALARM CODE (CA AMENDED), 2016 EDITION</div><div>17. NFPA 80, FIRE DOOR AND OTHER OPENING PROTECTIVES, 2016 EDITION</div><div>18. NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2015 EDITION</div></div><div>REFERENCE CODE SECTION FOR NFPA STANDARDS - 2016 CBC (SFM) CHAPTER 80. SEE CHAPTER 80 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.</div></div>	<div>THE PROJECT INCLUDES TWO NEW CLASSROOM BUILDINGS, AN ADDITION TO BUILDING M (KITCHEN) AND ASSOCIATED SITE WORK.</div> <div>STATEMENT OF GENERAL CONFORMANCE AND SIGNATURE BLOCK PER IR A-18</div>

DRAWING INDEX			
SHT. NO.	DESCRIPTION	SHT. NO.	DESCRIPTION
ARCHITECTURAL		MECHANICAL	
A0.1	COVER SHEET	M0.1	MECHANICAL LEGENDS, NOTES, AND SCHEDULES
A0.2	GENERAL NOTES	M0.2	MECHANICAL SCHEDULES
A0.3	ARCHITECTURAL SYMBOLS AND ABBREVIATIONS	M0.3	MECHANICAL DETAILS
A0.4	CODE ANALYSIS - SITE PLAN	M0.4	MECHANICAL DETAILS
A0.5	CODE ANALYSIS - BUILDING F FLOOR PLAN	MF2.1	BUILDING F MECHANICAL FLOOR PLAN
A0.6	CODE ANALYSIS - BUILDING G FLOOR PLAN	MF4.1	BUILDING F MECHANICAL ROOF PLAN
A0.7	CODE ANALYSIS - BUILDING M FLOOR PLAN	MF5.1	BLDG F - MECHANICAL ISOMETRIC
CIVIL		MG2.1	BUILDING G MECHANICAL FLOOR PLAN
C0.1	CIVIL GENERAL NOTES AND ABBREVIATIONS	MG4.1	BUILDING G MECHANICAL ROOF PLAN
C1.1	ENGINEERED FILL PLAN	MG5.1	BLDG G - MECHANICAL ISOMETRIC
C1.2	HORIZONTAL CONTROL PLAN	MM2.1	BUILDING M MECHANICAL FLOOR PLAN
C2.1	GRADING PLAN	MM4.1	BUILDING M MECHANICAL ROOF PLAN
C3.1	DRAINAGE AND SEWER PLAN	MM5.1	BLDG M - MECHANICAL ISOMETRIC
C4.1	DOMESTIC WATER AND FIRE PROTECTION PLAN	PLUMBING	
C5.1	PAVING PLAN	P0.1	PLUMBING LEGENDS, NOTES, AND SCHEDULES
C6.1	EROSION CONTROL PLAN	P0.2	PLUMBING DETAILS
C7.1	DETAILS AND SECTIONS	P0.3	PLUMBING CALCULATIONS
LANDSCAPE		P1.0	PLUMBING SITE PLAN
L1	LANDSCAPE DETAILS	PF2.1	BUILDING F PLUMBING FLOOR PLAN
L2	IRRIGATION PLAN	PF3.1	BUILDING F ENLARGED PLUMBING PLANS
L3	PLANTING PLAN	PF4.1	BUILDING F PLUMBING ROOF PLAN
ARCHITECTURAL		PF5.1	BUILDING F PLUMBING ISOMETRICS
A1.1	SITE PLAN OVERALL	PG2.1	BUILDING G PLUMBING FLOOR PLAN
A1.2	ENLARGED SITE PLAN	PG3.1	BUILDING G ENLARGED PLUMBING PLANS
		PG4.1	BUILDING G PLUMBING ROOF PLAN
		PG5.1	BUILDING G PLUMBING ISOMETRICS
AF2.1	BUILDING F FLOOR PLAN	PM2.1	BUILDING M PLUMBING FLOOR PLAN
AF2.2	BUILDING F ENLARGED PLANS	PM3.1	BUILDING M ENLARGED PLUMBING FLOOR PLAN
AF2.3	BUILDING F EQUIPMENT PLAN	PM4.1	BUILDING M PLUMBING ROOF PLAN
AF2.5	BUILDING F FLOOR PATTERN PLAN	PM5.1	BUILDING M PLUMBING ISOMETRICS
AF3.1	BUILDING F REFLECTED CEILING PLAN	ELECTRICAL	
AF3.2	BUILDING F ENLARGED REFLECTED CEILING PLAN	E0.1	ELECTRICAL NOTES, ABBREVIATIONS, AND SHEET INDEX
AF4.1	BUILDING F ROOF PLAN	E0.2	ELECTRICAL SYMBOL LEGEND
AF4.2	BUILDING F ENLARGED ROOF PLAN	E1.1	ELECTRICAL SITE PLAN
AF5.1	BUILDING F EXTERIOR ELEVATIONS	E1.2	SITE PHOTOMETRIC PLAN
AF5.2	BUILDING F EXTERIOR ELEVATIONS	E2.1	BUILDING F LIGHTING PLAN
AF6.1	BUILDING F BUILDING SECTIONS	E2.2	BUILDING F ELECTRICAL FLOOR PLAN
AF7.1	BUILDING F TOILET ROOM PLANS AND ELEVATIONS	E2.3	BUILDING F ELECTRICAL LOW VOLTAGE SYSTEMS PLAN
AF8.1	BUILDING F INTERIOR ELEVATIONS	E3.1	BUILDING F ELECTRICAL ROOF PLAN
AF8.2	BUILDING F INTERIOR ELEVATIONS	E3.2	BUILDING G LIGHTING PLAN
AF8.3	BUILDING F INTERIOR ELEVATIONS	E3.3	BUILDING G ELECTRICAL FLOOR PLAN
AF8.4	BUILDING F INTERIOR ELEVATIONS	E3.4	BUILDING G ELECTRICAL LOW VOLTAGE SYSTEMS PLAN
AF8.5	BUILDING F INTERIOR ELEVATIONS	E4.1	BUILDING M ELECTRICAL DEMO PLANS
AF8.6	BUILDING F INTERIOR ELEVATIONS	E4.2	BUILDING M LIGHTING PLAN
		E4.3	BUILDING M ELECTRICAL FLOOR PLAN
AG2.1	BUILDING G FLOOR PLAN	E4.4	BUILDING M ELECTRICAL LOW VOLTAGE SYSTEMS PLAN
AG2.2	BUILDING G ENLARGED PLANS	E4.5	BUILDING M ELECTRICAL ROOF PLAN
AG2.3	BUILDING G EQUIPMENT PLAN	E5.1	ELECTRICAL ONE LINE DIAGRAM
AG2.5	BUILDING G FLOOR PATTERN PLAN	E6.1	ELECTRICAL SCHEDULES
AG3.1	BUILDING G REFLECTED CEILING PLAN	E6.2	ELECTRICAL SCHEDULES
AG3.2	BUILDING G ENLARGED REFLECTED CEILING PLAN	E6.3	ELECTRICAL SCHEDULES
AG4.1	BUILDING G ROOF PLAN	E7.1	ELECTRICAL DETAILS
AG4.2	BUILDING G ENLARGED ROOF PLAN	E7.2	ELECTRICAL DETAILS
AG5.1	BUILDING G EXTERIOR ELEVATIONS	E7.3	LOW VOLTAGE SYSTEMS DIAGRAMS
AG5.2	BUILDING G EXTERIOR ELEVATIONS	TITLE 24	
AG6.1	BUILDING G BUILDING SECTIONS	T24.1	TITLE 24 COMPLIANCE FORMS
AG7.1	BUILDING G TOILET ROOM PLANS AND ELEVATIONS	T24.2	TITLE 24 COMPLIANCE FORMS
AG8.1	BUILDING G INTERIOR ELEVATIONS	T24.3	TITLE 24 COMPLIANCE FORMS
AG8.2	BUILDING G INTERIOR ELEVATIONS	T24.4	TITLE 24 COMPLIANCE FORMS
AG8.3	BUILDING G INTERIOR ELEVATIONS	T24.5	TITLE 24 COMPLIANCE FORMS
AG8.4	BUILDING G INTERIOR ELEVATIONS	T24.6	TITLE 24 COMPLIANCE FORMS
AG8.5	BUILDING G INTERIOR ELEVATIONS	T24.7	TITLE 24 COMPLIANCE FORMS
AG8.6	BUILDING G INTERIOR ELEVATIONS	T24.8	TITLE 24 COMPLIANCE FORMS
		T24.9	TITLE 24 COMPLIANCE FORMS
AM2.1	BUILDING M FLOOR PLANS - DEMO AND NEW	T24.10	TITLE 24 COMPLIANCE FORMS
AM2.3	BUILDING M EQUIPMENT AND FLOOR PATTERN PLAN	T24.11	TITLE 24 COMPLIANCE FORMS
AM3.1	BUILDING M REFLECTED CEILING PLAN AND ROOF PLAN	FIRE PROTECTION	
AM5.1	BUILDING M EXTERIOR ELEVATIONS	FA0.1	FIRE ALARM NOTES, SCHEDULES, AND SHEET INDEX
AM6.1	BUILDING M BUILDING AND WALL SECTIONS	FA0.2	FIRE ALARM DETAILS
AM7.1	BUILDING M TOILET ROOM PLANS AND ELEVATIONS	FA0.3	FIRE ALARM DETAILS
AM8.1	BUILDING M INTERIOR ELEVATIONS	FA1.1	FIRE ALARM SITE PLAN
		FA2.1	BUILDING F FIRE ALARM
A6.4	BUILDINGS F & G WALL SECTIONS	FA3.1	BUILDING G FIRE ALARM
A6.5	BUILDINGS F & G WALL SECTIONS	FA4.1	BUILDING M FIRE ALARM
A9.1	DOOR AND WINDOW SCHEDULE	FA5.1	FIRE ALARM RISER
A9.3	ROOM FINISH SCHEDULE	FA5.2	FIRE ALARM CALCULATIONS
A10.1	WALL TYPES	FP0.1	FIRE SPRINKLER LEGENDS, NOTES, AND SCHEDULES
A10.2.1	SITE DETAILS	FP1.0	FIRE SPRINKLER SITE PLAN
A10.2.2	SITE DETAILS	FP3.0	FIRE SPRINKLER SECTIONS
A10.4	MASONRY DETAILS	FP3.1	FIRE SPRINKLER SECTIONS
A10.6.1	WOOD DETAILS	FP3.2	FIRE SPRINKLER SECTIONS
A10.6.2	CASEWORK DETAILS	FP3.3	FIRE SPRINKLER SEISMIC CALCULATIONS
A10.7.1	ROOF DETAILS	FP3.4	FIRE SPRINKLER SEISMIC CALCULATIONS
A10.7.2	ROOF DETAILS	FP5.0	FIRE SPRINKLER DETAILS
A10.7.3	ROOF DETAILS	FP5.1	FIRE SPRINKLER DETAILS
A10.8	DOOR AND WINDOW DETAILS	FPF2.1	FIRE SPRINKLER BUILDING F REFLECTED CEILING PLAN
A10.9.1	TYPICAL SUSPENDED ACOUSTICAL CEILING DETAILS	FPF4.1	FIRE SPRINKLER BUILDING F PIPING PLAN
A10.9.2	SUSPENDED ACOUSTICAL CEILING DETAILS	FPG2.1	FIRE SPRINKLER BUILDING G REFLECTED CEILING PLAN
A10.9.3	CEILING DETAILS	FPG4.1	FIRE SPRINKLER BUILDING G PIPING PLAN
A10.10.1	SPECIALTIES	FPM2.1	FIRE SPRINKLER BUILDING M REFLECTED CEILING PLAN
A10.10.2	SPECIALTIES	FPM4.1	FIRE SPRINKLER BUILDING M PIPING PLAN
A10.10.3	SPECIALTIES	FOODSERVICE	
STRUCTURAL		FS1.0	FOODSERVICE FLOOR PLAN
S1.1	TYPICAL NOTES	FS2.0	FOODSERVICE PLUMBING FLOOR PLAN
S1.2	TYPICAL DETAILS	FS3.0	FOODSERVICE ELECTRICAL FLOOR PLAN
S1.3	TYPICAL DETAILS	FS4.0	FOODSERVICE MECHANICAL FLOOR PLAN
SF2.1	BUILDING F - FOUNDATION PLAN	FS5.1	FOODSERVICE EQUIPMENT EXHAUST HOOD PLAN
SF2.2	BUILDING F - ROOF FRAMING PLANS	FS5.2	FOODSERVICE EQUIPMENT EXHAUST HOOD DETAILS
SF2.3	BUILDING F - ROOF FRAMING PLANS	FS5.3	FOODSERVICE EQUIPMENT EXHAUST HOOD FIRE SYSTEM
SG2.1	BUILDING G - FOUNDATION PLAN	FS6.0	FOODSERVICE EQUIPMENT WALK-IN REFRIG/FREEZER DETAILS
SG2.2	BUILDING G - LOWER ROOF FRAMING PLAN	FS7.0	FOODSERVICE EQUIPMENT REMOTE REFRIGERATION DETAILS
SG2.3	BUILDING G - UPPER ROOF FRAMING PLAN	FS7.1	FOODSERVICE EQUIPMENT REMOTE REFRIGERATION DETAILS
SM2.1	BUILDING M - FOUNDATION PLAN AND ROOF FRAMING PLAN	FS8.1	FOODSERVICE EQUIPMENT ANCHORAGE DETAILS
		FS8.2	FOODSERVICE EQUIPMENT ANCHORAGE DETAILS
		TOTAL SHEET COUNT: 202	
S3.1	SECTIONS		
S3.2	SECTIONS		
S3.3	SECTIONS		
S4.1	DETAILS		
S4.2	DETAILS		
S4.3	DETAILS		
S4.4	DETAILS		

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VICINITY MAP

PROJECT SITE

COVER SHEET

Date  
05/20/2019

Scale  
1" = 100'-0"

Drawn  
AA

Checked  
AM

Project Number  
19003

Drawing Number  
A0.1

PRINT DATE: 5/17/2019 1:03:30 PM  
FILE PATH: P:\2019-0503\WUSD\Westmore Oaks ESD\dwg\REV19003\Westmore Oaks A17-CENTRAL-NEW.rvt



		DRAWING DISCIPLINE PREFIX	GENERAL NOTES	SUPPLEMENTAL GENERAL NOTES	
		A. ARCHITECTURAL C. CIVIL D. INTERIOR DESIGN / FURNITURE E. ELECTRICAL FA. FIRE ALARM FP. FIRE SPRINKLER FS. DIETARY / FOOD SERVICE G. GRAPHICS H. HAZARDOUS MATERIALS L. LANDSCAPING M. MECHANICAL P. PLUMBING S. STRUCTURAL T. TELECOMMUNICATION	1. PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND SHALL HAVE VISITED THE CONSTRUCTION SITE. HE SHALL BE FAMILIAR WITH THE CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE. BIDDERS SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS, REQUIREING WORK, WHICH ARE NOT COVERED IN THE CONTRACT DOCUMENTS. 2. THERE WILL BE NO SUBSTITUTION FOR SPECIFIED ITEMS WITHOUT PRIOR APPROVAL UNLESS OTHERWISE NOTED. REQUESTS FOR SUBSTITUTIONS SHALL BE MADE IN ACCORDANCE WITH GENERAL CONDITIONS & DIVISION 1 3. THE GENERAL BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS REQUIRED BY GOVERNING AGENCIES IN ORDER TO PERFORM THE WORK. 4. THE FINAL LOCATION OF ALL ELECTRICAL AND SIGNAL EQUIPMENT, PANEL BOARDS, FIXTURES, ETC., SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION. 5. DEFINITIONS A. "TYPICAL" MEANS IDENTICAL FOR ALL CONDITIONS, UNLESS OTHERWISE NOTED. B. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITION NOTED. VERIFY DIMENSIONS AND ORIENTATIONS. C. "PROVIDE" MEANS TO FURNISH AND INSTALL. D. "FURNISH" MEANS TO FURNISH AND OTHERS WILL INSTALL. 6. DIMENSIONING RULES. A. ALL HORIZONTAL DIMENSIONS SHALL BE TO CENTERLINE OF STUD OR COLUMN GRID LINE. U.O.N B. DIMENSIONS NOTED "CLEAR", "CLR", OR "MINIMUM" MUST BE PRECISELY MAINTAINED. C. DIMENSIONS CAN NOT BE MODIFIED WITHOUT APPROVAL OF THE ARCHITECT UNLESS OTHERWISE NOTED. D. VERTICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB UNLESS OTHERWISE NOTED. E. DO NOT SCALE DRAWINGS. IF ANY ITEM OF WORK CANNOT BE LOCATED, DO NOT PROCEED WITH THE WORK WITHOUT THE ARCHITECT'S APPROVAL. F. DIMENSIONS MARKED "V.I.F." OR "VERIFY" SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. G. VERIFY ALL ROUGH OPENING DIMENSIONS FOR FABRICATED ITEMS WITH THE MANUFACTURER PRIOR TO PROCEEDING WITH CONSTRUCTION. H. DOOR AND WINDOW OPENINGS SHALL BE LOCATED ADJACENT TO PERPENDICULAR WALL UNLESS DIMENSIONED OTHERWISE. 7. PROVIDE REQUIRED BACKING, BLOCKING, AND BRACING FOR ALL WALL - MOUNTED FIXTURES, ACCESSORIES AND EQUIPMENT. 8. VERIFY AND COORDINATE WALLS THAT MAY REQUIRE NON-TYPICAL THICKNESS OR FRAMING DUE TO ELECTRICAL, MECHANICAL, PLUMBING, STRUCTURAL AND/OR EQUIPMENT REQUIREMENTS. 9. ALL GLAZING SHALL CONFORM TO FEDERAL GLAZING REGULATIONS AND CHAPTER 24, CBC. 10. ALL CONTRACTORS SHALL REMOVE TRASH AND DEBRIS STEMMING FROM THEIR WORK ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION. 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL LEFT-OVER MATERIALS, DEBRIS, TOOLS AND EQUIPMENT INVOLVED IN HIS OPERATIONS AT THE CONCLUSION OF THE INSTALLATION. HE SHALL LEAVE ALL AREAS CLEAN AND FREE FROM DUST. 12. HAZARDOUS MATERIALS: THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL, DISPOSAL OF OR EXPOSURE OF PERSONS TO ASBESTOS OR HAZARDOUS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE. PROFESSIONAL SERVICES RELATED OR IN ANY WAY CONNECTED WITH THE INVESTIGATION, DETECTION, ABATEMENT, REPLACEMENT, USE, SPECIFICATION, OR REMOVAL OF PRODUCTS, MATERIALS, OR PROCESSES CONTAINING ASBESTOS OR HAZARDOUS OR TOXIC MATERIALS ARE BEYOND THE SCOPE OF THIS AGREEMENT. 13. THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWING ARE APPROXIMATE ROUTING LOCATION AS BEST DETERMINED FROM EXISTING DRAWINGS AND THE SCHOOL DISTRICT, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL THE EXISTING UNDERGROUND UTILITIES. 14. ALL TEMPORARY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT. 15. ALL WALL PENETRATIONS TO EXTERIOR WALLS SHALL BE SEALED AIRWATER TIGHT. ALL INTERIOR PENETRATIONS SHALL BE SEALED TO PROVIDE A PROFESSIONAL AND FINISHED APPEARANCE. 16. THE DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO SHOW OR LIST EVERY ITEM TO BE PROVIDED, BUT RATHER TO DEFINE THE REQUIREMENTS FOR A FULL AND WORKING SYSTEM FROM THE STANDPOINT OF THE END USER. FOR THIS REASON, WHEN AN ITEM NOT SHOWN OR LISTED IS CLEARLY NECESSARY FOR PROPER USE, CONTROL/ OPERATION OF EQUIPMENT WHICH IS SHOWN OR LISTED, PROVIDE ALL ITEMS WHICH WILL ALLOW THE SYSTEM TO FUNCTION PROPERLY AT NO INCREASE IN CONTRACT PRICE ON TIME. THE DETAILS REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HIS SCOPE, THE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING ANOMALIES, OF ALL TRADES. 17. ALL WORK SHALL CONFORM TO CALIFORNIA CODES, TRADE STANDARDS WHICH GOVERN EACH PHASE OF THE PROJECT, AND ALL APPLICABLE LOCAL CODES AND AUTHORITIES HAVING JURISDICTION. 18. THIS DRAWING SET SHALL BE USED IN CONJUNCTION WITH THE CSI FORMAT PROJECT MANUAL, PUBLISHED IN BOOK FORM, COMBINED, THEY ARE THE "CONTRACT DOCUMENTS". 19. NO WORK SHALL COMMENCE WITH UNAPPROVED MATERIALS. ANY WORK DONE WITH UNAPPROVED MATERIALS AND EQUIPMENT IS AT THE CONTRACTOR'S RISK. SEE SPECIFICATIONS FOR SUBMITTAL AND SUBSTITUTION REQUIREMENTS. 20. CONSTRUCTION MATERIAL STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE OR DETERIORATION. FAILURE IN THIS REGARD MAY BE CAUSE FOR REJECTION OF MATERIAL AND/OR WORK. SECURITY OF MATERIALS ARE THE SOLE RESPONSIBILITY OF CONTRACTOR. 21. ALL EQUIPMENT/CABINETS SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT WITH THIS WORK. 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE AND COSTS ATTRIBUTED TO RAIN WATER DAMAGE DURING THE DURATION OF THIS PROJECT. 23. PROTECT AREAS FROM DAMAGE WHICH MAY OCCUR DUE TO TEMPERATURES, WIND, DUST, WATER, ETC. PROVIDE AND MAINTAIN TEMPORARY BARRICADES, CLOSURE WALLS, ETC., AS REQUIRED DURING CONSTRUCTION. 24. MAINTAIN EXISTING PEDESTRIAN ACCESS ALONG EXISTING ADJACENT STREETS. 25. ALL PUBLIC IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST ADOPTED CITY/COUNTY STANDARDS. 26. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE. 27. NOTIFY THE ARCHITECT IN WRITING AND SEEK CLARIFICATION IF ANY DISCREPANCIES OR OMISSIONS ARE FOUND. CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDIAL WORK IF RELATED WORK IS CONTINUED AFTER A DISCREPANCY IS IDENTIFIED. 28. NEW FINISHES AND CONSTRUCTION SHALL BE PROTECTED BY THE CONTRACTOR FROM POTENTIAL DAMAGE CAUSED BY CONSTRUCTION ACTIVITY. DAMAGE TO FINISHES OR CONSTRUCTION SHALL BE REPAIRED OR REPLACED (OWNER'S DECISION) BY THE CONTRACTOR WITH IDENTICAL MATERIAL AND/OR FINISHES. CONTRACTOR SHALL MAKE AND MAINTAIN A PHOTOGRAPHIC RECORD NOTEBOOK WITH DATED/INDEXED PHOTOGRAPHS. SEE ELECTRICAL DRAWINGS FOR INFORMATION RELATED TO TELECOMMUNICATION EQUIPMENT, POWER, AND LIGHTING FIXTURES AND EQUIPMENT. SEE ARCHITECTURAL PLANS, REFLECTED CEILING PLAN AND INTERIOR ELEVATIONS FOR COORDINATED EQUIPMENT LOCATIONS. IF NOT SHOWN, CONTACT ARCHITECT FOR REVIEW AND DECISION. 29. PROVIDE ACCESS DOORS REQUIRED FOR ACCESS TO CONCEALED MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT. 30. ALL NOTED WORK IS UNDERSTOOD TO BE NEW, UNLESS LABELED AS "IE" OR "EXISTING".	1. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. 2. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERFERING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK. 3. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF BCA ARCHITECTS, AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF BCA ARCHITECTS. 4. EACH BIDDER SHALL POSSESS AT THE TIME OF BID, A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT. 5. FIRE SAFETY DURING CONSTRUCTION A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH 2016 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24 CCR B. ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH SECTION 902. C. WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATIONAL IN ACCORDANCE WITH SECTION 903. D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS OR FIRE APPLIANCES. E. ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF SECTIONS 8704 AND 8705. F. DEMOLITION OF BUILDINGS: SHALL COMPLY WITH SECTION 8706 AND APPLICABLE PROVISIONS OF SECTIONS 8704 AND 8705. G. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL. 6. PENETRATIONS IN FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED. 7. NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6) A. THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDINGS WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED THEY ARE BUILT ACCORDING TO THESE DRAWINGS AND SPECIFICATIONS AND PROVIDED ANY FUTURE IMPROVEMENTS ARE COMPLETED ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO INCLUDE ALL SIGNIFICANT ENERGY CONSERVATION FEATURES REQUIRED FOR COMPLIANCE WITH THE STANDARDS. BUILDING AREAS THAT ARE UNCONDITIONED AND/OR NOT SUBJECT TO THE STANDARDS ARE INDICATED ON THE DRAWINGS. B. ENVELOPE MANDATORY MEASURES: A. INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL. B. ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS, SECTIONS 719. C. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED. D. SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS). E. MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER IN ACCORDANCE WITH TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS, SECTION 116(b)(1). F. MANUFACTURED PENETRATION PRODUCTS IN THE ENVELOPE OF THE BUILDING, INCLUDING, BUT NOT LIMITED TO, WINDOWS, SLIDING GLASS DOORS, FRENCH DOORS, SKYLIGHTS, CURTAIN WALLS, AND GARDEN WINDOWS MUST BE LABELED FOR U-VALUE IN ACCORDANCE WITH THE (INFC) NATIONAL PENETRATION RATINGS COUNCIL'S INTERIM U-VALUE RATING PROCEDURE. G. DEMISING WALL INSULATION SHALL BE INSTALLED IN ALL OPAQUE PORTIONS OF FRAMED WALLS (EXCEPT DOORS). 8. PROOF LOAD TESTS FOR EXPANSION TYPE ANCHOR BOLTS: A. ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE WEDGE CATEGORY AND TO THE ANCHOR OUTSIDE DIAMETER FOR THE SLEEVE CATEGORY. B. APPLY PROOF TEST LOADS TO WEDGE & SLEEVE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A T-THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD. C. FOR SLEEVE INTERNALLY THREADED CATEGORIES, VERIFY THAT THE ANCHOR IS NOT PREVENTED FROM WITHDRAWING BY A BASEPLATE OR OTHER FIXTURES. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE FIXTURE(S) PRIOR TO TESTING. D. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S). E. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.	F. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS: 1. HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE. DROP-IN ANCHORS ARE ONLY TO BE TESTED WITH THIS METHOD. 2. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE OR SLEEVE TYPE: ONE-HALF (1/2) TURN OF THE NUT, ONE-QUARTER (1/4) TURN OF THE NUT FOR THE 3/8 IN. SLEEVE ANCHOR ONLY. G. TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS. H. ALL ANCHOR BOLTS OF THE EXPANSION TYPE (LOADED IN EITHER PULL-OUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT ALLOWED BY THE TYPE OF SUBSTRATE AND DIAMETER OF BOLT) LISTED BELOW UNDER TEST VALUES TABLE PROOF TESTED IN TENSION TO TWICE THE ALLOWABLE TENSION LOAD. IF THERE ARE ANY FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH TITLE 24, PART 2, SECTION 1916A.8. I. ALL BOLTS MUST HAVE ICC APPROVAL. J. ALL ANCHOR BOLTS OF THE EXPANSION TYPE SHALL BE ONE OF THE FOLLOWING: 1. HILTI KB-TZ ANCHOR ICC NO. ESR 1917 2. ITW RAMSET/REDHEAD-WEDGE ANCHOR-ICC NO. ESR 2427
		DRAWING INDEX CODE	A0. GENERAL INFORMATION A1. SITE PLANS A2. FLOOR PLANS A3. REFLECTED CEILING PLANS A4. ROOF PLANS A5. EXTERIOR ELEVATIONS A6. BUILDING SECTIONS A7. ENLARGED PLANS A8. INTERIOR ELEVATIONS A9. SCHEDULES A10. CONSTRUCTION DETAILS		
		DRAWING INDEX CODE			

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GENERAL NOTES

REVISION HISTORY

DRAWING STATUS

● DSA PLAN CHECK  
○ DSA BACK CHECK  
○ BIDDING  
○ CONSTRUCTION

DATE  
05/20/2019

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DSA SUBMITTAL

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

GENERAL NOTES

Date  
05/20/2019  
Scale  
12" = 1'-0"  
Drawn  
AA

Project Number  
19003  
Drawing Number  
A0.2  
Checked  
AM



ARCHITECTURAL DRAWING ABBREVIATIONS				SYMBOLS LEGEND			
<div># &amp; . @ J</div> <div>A A/C A/E AB ABAN ABC ABV AC ACC ACP ACST ACT AD ADDM ADH ADJ ADJC AFF AFG AGGR AHU ALS ALT ALUM./AL ANC ANCD APPLD APPRX ARCH ASC ASF ASPH ASSY ASYM AUTO AV</div> <div>B B BC BD BO BTUM BLDG BLK BLKG BLV BLW CLG BLW FFLR BM BN BO BOT BRCG BRDG BRG BRK BRKT BRS BRZ BS BSMT BTWN BUR BW</div> <div>C C&amp;G CAB CAD CB CBB CBC CEM CER CFCI CFLG CFOI CG CHBD CHFR CI CIP CIR CIRC CJ CL CLG CLJ CLK CLL CLOS CLR CLRM CMP CMPST CMU CNCL CNR CNTR COL COM COMB COMPT CONC CONFC CONN CONSTR CONT CONTR COORD CORR CPR CPRS CPT CRS CS CSG CSK CSMT CSWK CT CTB CTG CTG CTR CURT CUIN CUST CUYD CW</div> <div>D D d DA DBL DEG DEMO DEP DET DF</div>	<div>POUND OR NUMBER</div> <div>AND</div> <div>ITEMS IDENTIFIED AS "NIC" ARE NOT PART OF THIS DSA APPROVAL</div> <div>AT</div> <div>PERPENDICULAR</div> <div>AIR CONDITIONING</div> <div>ARCHITECT/ENGINEER</div> <div>ANCHOR BOLT</div> <div>ABANDON</div> <div>AGGREGATE BASE COURSE</div> <div>ABOVE</div> <div>ASPHALTIC CONCRETE</div> <div>ACCESSIBLE</div> <div>ALUMINUM COMPOSITE PANEL</div> <div>ACOUSTICAL</div> <div>ACOUSTICAL CEILING TILE</div> <div>AREA DRAIN</div> <div>ADDENDUM</div> <div>ADHESIVE</div> <div>ADJUSTABLE</div> <div>ADJACENT</div> <div>ABOVE FINISH FLOOR</div> <div>ABOVE FINISHED GRADE</div> <div>AGGREGATE</div> <div>AIR HANDLING UNIT</div> <div>ASSISTED LISTENING SYSTEM</div> <div>ALTERNATE</div> <div>ALUMINUM</div> <div>ANCHOR, ANCHORAGE</div> <div>APPLIED</div> <div>APPROXIMATELY</div> <div>ARCHITECTURAL</div> <div>ABOVE SUSPENDED CEILING</div> <div>ABOVE STAGE FINISH</div> <div>ASPHALT</div> <div>ASSEMBLY</div> <div>ASYMMETRICAL</div> <div>AUTOMATIC</div> <div>AUDIO VISUAL</div> <div>AMERICAN WIRE GAUGE</div> <div>BOLT</div> <div>BACK OF CURB</div> <div>BOARD</div> <div>BOARD</div> <div>BITUMINOUS</div> <div>BUILDING</div> <div>BLOCK</div> <div>BLOCKING</div> <div>BELOW</div> <div>BELOW CEILING</div> <div>BELOW FINISH FLOOR</div> <div>BENCH MARK</div> <div>BOUNDARY NAILING</div> <div>BOTTOM OF</div> <div>BOTTOM</div> <div>BRACING</div> <div>BRIDGING</div> <div>BRG</div> <div>BRICK</div> <div>BRACKET</div> <div>BRASS</div> <div>BRONZE</div> <div>BOTH SIDES</div> <div>BASEMENT</div> <div>BETWEEN</div> <div>BUILT UP ROOFING</div> <div>BOTH WAYS</div> <div>C</div> <div>CURB AND GUTTER</div> <div>CABINET</div> <div>CADMIUM</div> <div>CATCH BASIN</div> <div>CEMENTITIOUS BACKER BOARD</div> <div>CALIFORNIA BUILDING CODE</div> <div>CEMENT</div> <div>CERAMIC</div> <div>CONTRACTOR FURNISHED CONTRACTOR INSTALLED</div> <div>COUNTERFLASHING</div> <div>CONTRACTOR FURNISHED OWNER INSTALLED</div> <div>CORNER GUARD</div> <div>CHALKBORD</div> <div>CHAMFER</div> <div>CAST IRON</div> <div>CAST IN PLACE</div> <div>CIRCLE</div> <div>CIRCULAR, CIRCUMFERENCE</div> <div>CONSTRUCTION JOINT</div> <div>CHAIN LINK OR CENTER LINE</div> <div>CEILING</div> <div>CONTROL JOINT</div> <div>CAULKING</div> <div>CONTRACT LIMIT LINE</div> <div>CLOSURE</div> <div>CLEAR(ANCE)</div> <div>CLASSROOM</div> <div>CORRUGATED METAL PANEL</div> <div>COMPOSITION</div> <div>CONCRETE MASONRY UNIT</div> <div>CONCEALED</div> <div>CORNER</div> <div>COUNTER</div> <div>COLUMN</div> <div>COMMON</div> <div>COMBINATION</div> <div>COMPOSITE</div> <div>COMPARTMENT</div> <div>CONCRETE</div> <div>CONFERENCE</div> <div>CONNECTION</div> <div>CONSTRUCTION</div> <div>CONTINUOUS, CONTINUATION</div> <div>CONTRACT(OR)</div> <div>COORDINATE</div> <div>CORRIDOR</div> <div>COPPER</div> <div>COMPRESSED(ED), (ION), (IBLE)</div> <div>CARPET</div> <div>COLD ROLLED STEEL</div> <div>CAST STONE</div> <div>CASING</div> <div>COUNTERSUNK</div> <div>CASEMENT</div> <div>CASEWORK</div> <div>CERAMIC TILE</div> <div>CERAMIC TILE BASE</div> <div>CERAMIC TILE FLOOR</div> <div>COATING</div> <div>CENTER</div> <div>CUBIC FOOT</div> <div>CUBIC INCH</div> <div>CUSTODIAN</div> <div>CUBIC YARD</div> <div>CURTAIN WALL</div> <div>DRAIN</div> <div>PENNWEIGHT (NAILS)</div> <div>DOUBLE ACTING</div> <div>DOUBLE</div> <div>DEGREES</div> <div>DEMOLISH, DEMOLITION</div> <div>DEPRESSED</div> <div>DEPARTMENT</div> <div>DETAIL</div> <div>HOLD DOWN</div> <div>HOLLOW METAL</div>	<div>DECOMPOSED GRANITE</div> <div>DOUBLE HUNG</div> <div>DIAMETER</div> <div>DIAGONAL</div> <div>DIMENSION</div> <div>DISPENSE</div> <div>DIVISION</div> <div>DAMP/PROOFING</div> <div>DOWN</div> <div>DOOR</div> <div>DRAINBOARD</div> <div>DOOR LOUVER</div> <div>DOWNSPOUT</div> <div>DRY STANDPIPE</div> <div>DRAIN TILE</div> <div>DOVETAIL</div> <div>DISHWASHER</div> <div>DRAWING</div> <div>DOWEL</div> <div>DRAWER</div> <div>E</div> <div>EXISTING</div> <div>EAST</div> <div>EACH</div> <div>EXHAUST AIR REGISTER</div> <div>EXPANSION BOLT</div> <div>EACH END</div> <div>EACH FACE</div> <div>EXTERIOR FINISH SYSTEM</div> <div>ELECTRIC HAND DRYER</div> <div>EXTERIOR INSULATION AND FINISH SYSTEM</div> <div>EXPANSION JOINT</div> <div>ELEVATION</div> <div>ELASTOMERIC</div> <div>ELECTRICAL</div> <div>ELEVATOR</div> <div>EXPANDED METAL</div> <div>EMERGENCY</div> <div>EDGE NAILING</div> <div>ENCLOSURE</div> <div>ENGINEER</div> <div>ENTRANCE</div> <div>ELECTRICAL PANELBOARD</div> <div>EQUAL</div> <div>EQUIPMENT</div> <div>ESCUTCHEON</div> <div>ESCALATOR</div> <div>EASEMENT</div> <div>EACH WAY</div> <div>ELECTRIC WATER COOLER</div> <div>ELECTRIC WATER HEATER</div> <div>EYE WASH STATION</div> <div>EXCAVATE</div> <div>EXHAUST</div> <div>EXPANDED</div> <div>EXPANSION</div> <div>EXTRA STRONG</div> <div>EXTERIOR</div> <div>F</div> <div>FUTURE</div> <div>FACE TO FACE</div> <div>FIRE ALARM</div> <div>FABRIC</div> <div>FIBERBOARD</div> <div>FIRE BRICK</div> <div>FACE BRICK</div> <div>FLOOR DRAIN</div> <div>FOUNDATION</div> <div>FIRE EXTINGUISHER</div> <div>FIRE EXTINGUISHER CABINET</div> <div>FINISH FLOOR</div> <div>FROM FLOOR ABOVE</div> <div>FROM FLOOR BELOW</div> <div>FINISHED FLOOR ELEVATION</div> <div>FINISHED FLOOR LINE</div> <div>FIBERGLASS</div> <div>FIRE HOUSE CABINET</div> <div>FLAT HEAD MACHINE BOLT</div> <div>FLAT HEAD MACHINE SCREW</div> <div>FLATHEAD WOOD SCREW</div> <div>FINISH(ED)</div> <div>FLUSH JOINT</div> <div>FLASHING</div> <div>FOLDING</div> <div>FLOORING</div> <div>FLOOR</div> <div>FLOURESCENT</div> <div>FIELD NAILING</div> <div>FACE OF BLOCK</div> <div>FACE OF CONCRETE/CURB</div> <div>FACE OF FINISH</div> <div>FACE OF GRID</div> <div>FACE OF MASONRY</div> <div>FACE OF STUD</div> <div>FIREPLACE</div> <div>FIREPROOF(ING)</div> <div>FRAMER(ING)</div> <div>FIBERGLASS REINFORCED GYPSUM</div> <div>FIBERGLASS REINFORCED PLASTIC</div> <div>FIRE RETARDANT TREATED WOOD</div> <div>FREEZER</div> <div>FIRE SPRINKLER</div> <div>FAR SIDE</div> <div>FASTEN, FASTENER</div> <div>FOOT/FEET</div> <div>FOOTING</div> <div>FURRED, (ING)</div> <div>FABRIC WALL COVERING</div> <div>G</div> <div>GAUGE</div> <div>GALLON</div> <div>GALVANIZED</div> <div>GRAB BAR</div> <div>GLASS FIBER REINFORCED CONCRETE</div> <div>GALVANIZED IRON</div> <div>GLASS</div> <div>GLUE LAMINATED</div> <div>GLAZING</div> <div>GLAZED CONCRETE MASONRY UNIT</div> <div>CASING</div> <div>GYPSUM PLASTER CEILING</div> <div>GRADE</div> <div>GRADE BEAM</div> <div>GRADE LINE</div> <div>GYPSUM SHEATHING BOARD</div> <div>GALVANIZED SHEET METAL</div> <div>GALVANIZED STEEL SHEET</div> <div>GLAZED STRUCTURAL TILE</div> <div>GROUT</div> <div>GRAVEL</div> <div>GYPSUM</div> <div>GYPSUM BOARD</div> <div>H</div> <div>HOSE BIB</div> <div>HOLLOW CORE</div> <div>HEAVY DUTY</div> <div>HEADED ANCHOR STUD</div> <div>HEAD JOINT</div> <div>HEADER</div> <div>HARDWARE</div> <div>HARDWOOD</div> <div>HEXAGONAL</div> <div>HANGER</div> <div>HOLD DOWN</div> <div>HOLLOW METAL</div>	<div>HOLLOW METAL DOOR</div> <div>HOLLOW METAL DOOR AND FRAME</div> <div>HOLLOW METAL FRAME</div> <div>HANDRAIL</div> <div>HORIZONTAL</div> <div>HIGH POINT</div> <div>HOUR</div> <div>HEIGHT</div> <div>HEATING</div> <div>HEATING, VENTILATING, AIR CONDITIONING</div> <div>HOT WATER HEATER</div> <div>I</div> <div>INSIDE DIAMETER</div> <div>INCH</div> <div>INCLUDE(D), (ING)</div> <div>INFORMATION</div> <div>INSTALL</div> <div>INSULATED(ED), (ION)</div> <div>INTERIOR</div> <div>INVERT</div> <div>IRON PIPE SIZE</div> <div>INTERNATIONAL SYMBOL OF ACCESSIBILITY</div> <div>J</div> <div>JANITOR</div> <div>JOIST</div> <div>JOINT</div> <div>K</div> <div>KITCHEN</div> <div>KNOCKOUT</div> <div>KICKPLATE</div> <div>L</div> <div>LABORATORY</div> <div>LADDER</div> <div>LAMINATE</div> <div>LAVATORY</div> <div>POUND(S)</div> <div>LABEL</div> <div>LUMBER</div> <div>LEADER</div> <div>LINEAL FOOT</div> <div>LENGTH, LONG</div> <div>LEFT HAND</div> <div>LEFT HAND REVERSE</div> <div>LOCKNUT</div> <div>LOCKER</div> <div>LOOKWASHER</div> <div>LONG LEG HORIZONTAL</div> <div>LONG LEG VERTICAL</div> <div>LANDSCAPE(D)</div> <div>LINTEL</div> <div>LIGHTPROOF</div> <div>LOW POINT</div> <div>LIGHT</div> <div>LIGHTWEIGHT</div> <div>LOUVER VENT</div> <div>LEVEL(ER)</div> <div>LIGHTWEIGHT CONCRETE</div> <div>LIGHTWEIGHT INSULATING CONCRETE</div> <div>M</div> <div>MAINTAIN(ANCE)</div> <div>MASONRY</div> <div>MATERIAL</div> <div>MAXIMUM</div> <div>MACHINE BOLT</div> <div>MEMBER</div> <div>MEDICINE CABINET</div> <div>METAL CORNER BEAD</div> <div>MEDIUM DENSITY OVERLAD</div> <div>MECHANICAL</div> <div>MEDIUM</div> <div>MEMBRANE</div> <div>MEZZANINE</div> <div>METAL FLOOR DECKING</div> <div>MANUFACTURER</div> <div>MANHOLE</div> <div>MINIMUM</div> <div>MIRROR</div> <div>MISCELLANEOUS</div> <div>METAL LATH</div> <div>MOLDING</div> <div>MILLWORK</div> <div>MASONRY OPENING</div> <div>MODULE(AR)</div> <div>MOISTURE RESISTANT</div> <div>MARBLE</div> <div>METAL ROOF DECKING</div> <div>MACHINE SCREW</div> <div>MOUNTED</div> <div>METAL</div> <div>MORTAR</div> <div>MULLION</div> <div>N</div> <div>NEW</div> <div>NORTH</div> <div>NATURAL</div> <div>NONCOMBUSTIBLE</div> <div>NOT EXCEEDING</div> <div>NEAR FACE</div> <div>NOT IN CONTRACT</div> <div>NON-LOAD BEARING</div> <div>NONMETALLIC</div> <div>NUMBER</div> <div>NOMINAL</div> <div>NOISE REDUCTION</div> <div>NOISE REDUCTION COEFFICIENT</div> <div>NATIONAL ROOFING CONTRACTOR'S ASSOCIATION</div> <div>NEAR SIDE</div> <div>NOT TO SCALE</div> <div>O</div> <div>OVER</div> <div>OUT TO OUT</div> <div>OVERALL</div> <div>OBSCURE</div> <div>ON CENTER</div> <div>OCCUPANTS OR OCCUPANCY</div> <div>OWNER FURNISHED CONTRACTOR INSTALLED</div> <div>OFFICE</div> <div>OFFICE</div> <div>OFFICE</div> <div>OWNER FURNISHED OWNER INSTALLED</div> <div>OUTSIDE FACE OF STUD</div> <div>OVALHEAD MACHINE SCREW</div> <div>OVALHEAD WOOD SCREW</div> <div>OWNER INSTALLED</div> <div>OPPOSITE HAND</div> <div>OPENING</div> <div>OPPOSITE</div> <div>OPAQUE</div> <div>OPERABLE</div> <div>OVERFLOW ROOF DRAIN</div> <div>ORIENTED STRAND BOARD</div> <div>OVERFLOW</div> <div>OVERHEAD</div> <div>P</div> <div>PAINT</div> <div>PUBLICADDRESS</div> <div>PARALLEL</div> <div>PATTERN</div> <div>PANIC BAR</div> <div>PARTICLE BOARD</div> <div>PORTLAND CEMENT</div> <div>PRECAST CONCRETE</div>	<div>PORTLAND CEMENT PLASTER</div> <div>PEDESTAL</div> <div>PERFORATED</div> <div>PERIMETER</div> <div>PERPENDICULAR</div> <div>PEGBORD</div> <div>PHASE</div> <div>PHILLIPS HEAD SCREW</div> <div>POINT OF INTERSECTION</div> <div>POST INDICATOR VALVE</div> <div>PLATE, PROPERTY LINE</div> <div>PLASTIC LAMINATE</div> <div>PLASTER</div> <div>PLYWOOD</div> <div>PRESSED METAL</div> <div>PRESSED METAL FRAME</div> <div>PNEUMATIC</div> <div>PANEL</div> <div>PAINT(ED)</div> <div>POLISHED</div> <div>POLYETHYLENE</div> <div>PORCELAIN</div> <div>PORTABLE</div> <div>PAIR</div> <div>PRECAST</div> <div>PREFABRICATED</div> <div>PREFINISHED</div> <div>PREFORMED</div> <div>PARKING</div> <div>PREMOLDED</div> <div>PROJECT</div> <div>PROPERTY</div> <div>PRESTRESSED CONCRETE</div> <div>POINT</div> <div>PAPER TOWEL DISPENSER</div> <div>PRESSURE TREATED DOUGLAS FIR</div> <div>PARTITION</div> <div>PAPER TOWEL RECEPTACLE</div> <div>POLYVINYL CHLORIDE</div> <div>PAVE(D), (ING)</div> <div>PAVEMENT</div> <div>Q</div> <div>QUARRY TILE</div> <div>QUARRY TILE BASE</div> <div>QUARRY TILE FLOOR</div> <div>QUARTER</div> <div>QUANTITY</div> <div>R</div> <div>RISER</div> <div>RETURN AIR</div> <div>RABBIT</div> <div>RADIUS</div> <div>RESILIENT BASE</div> <div>RUBBER</div> <div>REINFORCED CONCRETE PIPE</div> <div>RECEIVER</div> <div>ROOF DRAIN</div> <div>RIGID INSULATION</div> <div>ROADWAY</div> <div>REINFORCING STEEL BARS</div> <div>RECESSED</div> <div>RECTANGULAR</div> <div>RECYCLING</div> <div>REFERENCE</div> <div>REFLECT(ED), (IVE), (OR)</div> <div>REFRIGERATOR</div> <div>REGISTER</div> <div>REINFORCED</div> <div>REMOVE(ABLE)</div> <div>REPAIR</div> <div>REPLACE</div> <div>REQUIRED</div> <div>RESILIENT</div> <div>RETURN</div> <div>REVISION(S), REVISED</div> <div>RESILIENT FLOORING</div> <div>ROOFING</div> <div>ROOF HATCH</div> <div>RIGHT HAND</div> <div>ROUND HEAD MACHINE SCREW</div> <div>RIGHT HAND REVERSE</div> <div>ROUND HEAD WOOD SCREW</div> <div>ROOF LEADER</div> <div>RAILING</div> <div>ROOM</div> <div>ROUND</div> <div>ROUGH OPENING</div> <div>RIGHT OF WAY</div> <div>RESTROOM</div> <div>ROUGH SAWN</div> <div>RUBBER TILE FLOORING</div> <div>ROOF TOP UNIT</div> <div>ROOF VENT</div> <div>REVEAL</div> <div>REVERSE (SIDE)</div> <div>RIVET(ED)</div> <div>REDWOOD</div> <div>RAIN WATER LEADER</div> <div>S</div> <div>SOUTH</div> <div>SURFACED TWO SIDES</div> <div>SURFACED FOUR SIDES</div> <div>SUPPLY AIR</div> <div>SALVAGE</div> <div>SELF-ADHERED MEMBRANE</div> <div>SUSPENDED ACOUSTICAL TILE</div> <div>SPLASH BLOCK</div> <div>SUBSTRATE</div> <div>SOLID CORE</div> <div>SEAT COVER DISPENSER</div> <div>SCHEDULE</div> <div>SCUPPER</div> <div>SCREEN</div> <div>STORM DRAIN</div> <div>SANDBLAST</div> <div>SECONDS</div> <div>SECTION</div> <div>SEPERATE OR SEPERATION</div> <div>SQUARE FEET, STOREFRONT</div> <div>SINGLE</div> <div>SHOWER</div> <div>SHEET(ING)</div> <div>SHEATHING</div> <div>SHELVES(ING)</div> <div>SIMILAR</div> <div>SINK</div> <div>SKYLIGHT</div> <div>SEALED</div> <div>SLIDE(ING)</div> <div>SOLDER</div> <div>SEALANT</div> <div>SLEEVE</div> <div>SHEET METAL</div> <div>SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION</div> <div>SHEET METAL SCREW</div> <div>SANITARY NAPKIN DISPENSER</div> <div>SOUND INSULATION</div> <div>SANITARY NAPKIN DISPOSAL UNIT</div> <div>SEALANT</div> <div>SPACES</div> <div>SUSPENDED PLASTER CEILING</div> <div>SOAP DISPENSER</div> <div>SPECIFICATION</div> <div>SPECIFICATION(S)</div> <div>SUPPORT</div> <div>SQUARE</div>	<div>SQUARE</div> <div>SERVICE SINK</div> <div>STAINLESS STEEL</div> <div>STREET</div> <div>STATION</div> <div>STAGGERED</div> <div>SOUND TRANSMISSION CLASS</div> <div>STANDARD</div> <div>SEATING</div> <div>STIFF</div> <div>STIRRUP</div> <div>STEEL</div> <div>STORAGE</div> <div>STRAIGHT</div> <div>STRUCTURAL</div> <div>STRUCT</div> <div>SUSPENDED</div> <div>SHEET VINYL</div> <div>SYMMETRICAL</div> <div>SYNTHETIC</div> <div>SYSTEM</div> <div>T</div> <div>TEMPERED, TOILET, TREAD</div> <div>TITLE 24</div> <div>TOP AND BOTTOM</div> <div>TONGUE &amp; GROOVE</div> <div>THRU BOLT</div> <div>THREADED BOTH ENDS</div> <div>TOWEL DISPENSER</div> <div>TOWEL DISPENSER/RECEPTACLE</div> <div>TELEPHONE</div> <div>TEMPORARY</div> <div>TERRAZZO</div> <div>TO FLOOR ABOVE</div> <div>TO FLOOR BELOW</div> <div>TREAD(ED)</div> <div>THERMAL</div> <div>THICK</div> <div>THRESHOLD</div> <div>THROUGH</div> <div>TACKBOARD</div> <div>TEMPERED</div> <div>TO</div> <div>TOP OF BEAM</div> <div>TOP OF CURB OR TOP OF CONCRETE</div> <div>TOP OF FOOTING</div> <div>TOP OF FINISH FLOOR</div> <div>TOP OF JOIST</div> <div>TOLERANCE</div> <div>TOP OF MASONRY</div> <div>TOP OF PARAPET</div> <div>TOP OF PAVEMENT</div> <div>TOP OF SHEATHING</div> <div>TOP OF SLAB</div> <div>TOP OF STEEL</div> <div>TOP OF WALL OR TOP OF WALK</div> <div>TOILET PAPER DISPENSER</div> <div>TOILET PARTITION</div> <div>TRANSITION</div> <div>TUBE STEEL</div> <div>TELEVISION</div> <div>TOWEL BAR</div> <div>TYPICAL</div> <div>U</div> <div>UNDERCUT</div> <div>UNDERGROUND</div> <div>UNDERWRITER'S LABORATORY</div> <div>UNFINISHED</div> <div>UNLESS OTHERWISE NOTED</div> <div>URINAL</div> <div>UNREINFORCED MASONRY</div> <div>UTILITY</div> <div>V</div> <div>VARIES</div> <div>VINYL BASE</div> <div>VINYL COMPOSITION TITLE</div> <div>VERIFY</div> <div>VERTICAL</div> <div>VESTIBULE</div> <div>VINYL FABRIC</div> <div>VINYL FACED ACOUSTIC TILE</div> <div>VERIFY IN FIELD</div> <div>V-JOINT(ED)</div> <div>VENTILATOR</div> <div>VAPOR RETARDER</div> <div>VENT THROUGH ROOF</div> <div>VINYL WALL COVERING</div> <div>W</div> <div>WEST</div> <div>WATER HEATER</div> <div>WHERE OCCURS</div> <div>WITH</div> <div>WITHOUT</div> <div>WALL TO WALL</div> <div>WOOD BLOCKING</div> <div>WATER CLOSET</div> <div>WOOD</div> <div>WOOD PANELING</div> <div>WINDOW</div> <div>WIDE FLANGE</div> <div>WOOD FURRING STRIP</div> <div>WIRED GLASS</div> <div>WALL HUNG</div> <div>WROUGHT IRON</div> <div>WIDTH, WIDE</div> <div>WELDED</div> <div>WIRE MESH</div> <div>WATERPROOF(ING)</div> <div>WORKING POINT</div> <div>WIRE ROPE</div> <div>WOOD SCREW</div> <div>WAINSCOT</div> <div>WEIGHT</div> <div>WELDED WIRE FABRIC</div> <div>X</div> <div>CROSS BRACE</div> <div>TRANSFORMER</div> <div>CROSS SECTION</div> <div>Y</div> <div>YARD CLEANOUT</div> <div>YARD</div>	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	<div>DSA STAMP</div> <div>ARCHITECT</div> <div>ENGINEER</div> <div>GENERAL NOTES</div> <div>REVISION HISTORY</div> <div>DRAWING STATUS</div> <div>KEY PLAN</div> <div>WASHINGTON UNIFIED SCHOOL DISTRICT</div> <div>930 WEST ACRE ROAD</div> <div>WEST SACRAMENTO, CA 95691</div> <div>DSA SUBMITTAL</div> <div>WESTMORE OAKS SCHOOL</div> <div>NEW BLDGS F &amp; G AND BLDG M ADDITION</div> <div>1504 FALLBROOK STREET</div> <div>WEST SACRAMENTO, CA 95691</div> <div>ARCHITECTURAL SYMBOLS AND ABBREVIATIONS</div> <div>Date</div> <div>05/20/2019</div> <div>Scale</div> <div>As indicated</div> <div>Drawn</div> <div>AA</div> <div>Checked</div> <div>AM</div> <div>Project Number</div> <div>19003</div> <div>Drawing Number</div> <div>A0.3</div>



BICYCLE STORAGE CALCS

BASED ON 2016 CAL GREEN BUILDING STANDARDS CODE SECTION 5.106.4 "BICYCLE PARKING [DSA-SS]"  
5.106.4.2.1 STUDENT BICYCLE PARKING REQUIRED: (4) 2-BIKE CAPACITY RACKS PER NEW BUILDING  
2 NEW BUILDINGS x 8 BIKES STORED = 16 STUDENT BIKES STORED  
(2) 8-BIKE CAPACITY RACKS PROVIDED. SEE SITE PLAN.  
5.106.4.2.2 STAFF BICYCLE PARKING REQUIRED: 2 BIKES STORED PER NEW BUILDING  
2 NEW BUILDINGS x 2 BIKES STORED = 4 STAFF BIKES STORED  
PROVIDED: (4) PERMANENTLY ANCHORED BIKE RACKS IN STORAGE ROOM OF BUILDING G. SEE SITE PLAN

ACCESSIBLE PARKING CALCS

BASED ON CBC TABLE 11B-208.2 "PARKING SPACES"  
TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY  
MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES  
1 TO 25  
26 TO 50  
51 TO 75  
76-100  
101-150  
151-200  
201-300  
301-400  
401-500  
501-1000  
1001 AND OVER  
47 STALLS  
2 STALLS  
49 STALLS

KEY NOTES

NUMBER NOTE  
32 240 BICYCLE RACKS (SEE DETAIL 18/A10.2.1)  
32 242 VERTICAL BICYCLE RACKS (SEE DETAIL 9/A10.10.3)

GENERAL NOTES

1. ALL (E) STRUCTURES AND ITEMS ON SITE ARE APPROXIMATE BASED ON DRAWINGS FROM OWNER.  
2. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLANS IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX. AND AT LEAST 48" WIDE. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. GROSS SLOPE DOES NOT EXCEED 3% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.  
3. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80". SEE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT ON THIS SHEET FOR ADDITIONAL P.O.T. REQUIREMENTS.  
4. ALL SIDEWALKS ALONG THE ACCESSIBLE ROUTE TO BE A MINIMUM OF 4'-0" WIDE, AND THERE SHALL BE NO DROP-OFFS OVER 4" AT EDGE OF WALK OR LANDING, WHERE A 4" DROP-OFF DOES OCCUR, PROVIDING A 6" HIGH WARNING CURB OR GUARD OR HANDRAIL. (SEE CBC SECTION 11B-303.5) GATES ALONG ACCESSIBLE ROUTE SHALL MEET DOOR REQUIREMENTS PER CBC SECTION 11B-404 INCLUDING PANIC HARDWARE AND 10" MIN. SMOOTH BOTTOM OR KICK PLATE. SEE DOOR SCHEDULE FOR MORE INFORMATION. FOR GRATING LOCATED IN THE SURFACE OF ANY PEDESTRIAN IN THE PATH OF TRAVEL, GRID OPENINGS IN GRATING SHALL BE LIMITED TO 1/2" MAXIMUM IN THE DIRECTION OF TRAFFIC FLOW.  
5. 36" WIDE CONTINUOUS DETECTABLE WARNING SHALL BE USED WHERE THE PEDESTRIAN PATH CROSSES OR ADJOINS A VEHICULAR WAY (SUCH AS A DRIVEWAY) TO WARN OF POTENTIAL HAZARDS AS PER CBC 11B-705. ALL EXTERIOR OUTWARD SWINGING DOORS TO HAVE A MINIMUM 5'-0" LEVEL LANDING.  
6. ALL BUILDING ENTRANCES AND EXTERIOR GROUND LEVEL EXITS SHALL BE ACCESSIBLE.

LOCAL FIRE AUTHORITY REVIEW

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at the time of project submittal for projects consisting of construction of a new campus, construction of new buildings, additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and the fire suppression water supply.  
Information associated with compliance items 1-3 below is to be provided for all project types indicated above. Information associated with items 4-7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the local fire authority (LFA) is only required when an alternate design means is being requested.  
Page 1 of the completed form must be mapped onto the fire access site plan. When an alternate design/means is proposed, for additional information refer to the instructions at the end of this form and DSA Policy 09-01.  
PROJECT INFORMATION  
School District/Owner: Washington Unified School District  
Project Name/School: Westmore Oaks Elementary School  
Project Address: 1504 Fallbrook St., West Sacramento, CA 95691  
FIRE & LIFE SAFETY INFORMATION  
1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.) Yes No  
2. Was the fire hydrant water flow test performed as part of this LFA review? Yes No  
3. Is the project located within a designated fire hazard severity zone as established by Cal Fire? If yes, indicate the hazard zone classification below. Yes No  
Refer to the following for fire hazard zone locations: www.fds.ca.gov/fds/assessment/assessment/assessment\_zones.php  
Wildland Interface Area (WIA): If any designations are checked, project design must meet the requirements of CBC Chapter 7A. Moderate High Very High  
CONDITION MEANS AND METHODS RESOLUTION ALTERNATE ACCEPTED  
4. Emergency vehicle access roadways do not meet CFC requirements. Yes No N/A R/R  
4a. Acceptable Alternate: Emergency vehicles and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property. Yes No  
5. Fire Hydrants: Number and spacing does not meet CFC requirements. Yes No  
5a. Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property. Yes No  
6. Fire Hydrants: Water flow and pressure are less than CFC minimum. Yes No  
6a. Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property. Yes No  
7. Location of the fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements. Yes No  
7a. Acceptable Alternate: The location of the fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property. Yes No  
DSA 810 (rev 10-23-19) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 1 of 4  
DSA 810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL  
School District Acceptance of Acceptable Design Alternates  
By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.  
Accepted by: Title: Signature: Date:  
LOCAL FIRE AUTHORITY (LFA) INFORMATION  
LFA Agency Name: West Sacramento Fire  
LFA Review Official: Bryan Jonson  
Title: Fire Marshal Work Phone: 916.617.4600  
Work E-mail: bryanj@cityofwestsacramento.org  
LFA Reviewer's Signature: Date: 03/15/19

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT

(BASED ON DSA PROCEDURE PR 15-01)  
THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.  
DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

GROSS BUILDING AREA

NAME	TOTAL AREA (S.F.)
BUILDING F AREA	11,477 SF
BUILDING F OVERHANGS	2,368 SF
TOTAL AREA	13,875 SF
BUILDING G AREA	11,248 SF
BUILDING G OVERHANGS	1,686 SF
TOTAL AREA	12,934 SF
BUILDING M EXISTING	3,452 SF
BUILDING M NEW	1,500 SF
BUILDING M OVERHANGS EXISTING	526 SF
BUILDING M OVERHANGS NEW	174 SF
TOTAL AREA	5,651 SF

CODE ANALYSIS

BUILDING NAME	BUILDING F	BUILDING G	BUILDING M
BUILDING CONDITION	NEW	NEW	EXISTING WITH NEW ADDITION
OCCUPANCY (CBC TABLE 504.3)	A-2, E	A-2, B, E	A-2 (ADDITION) & A-3 (EXISTING)
BUILDING HEIGHT	21'-10"	23'-10"	23'-1"
NUMBER OF STORIES	1	1	1
TYPE OF CONSTRUCTION	V-B	V-B	V-B
SPRINKLERS	YES	YES	AT NEW ADDITION ONLY
ALTERNATIVE PROTECTION (CBC 903.1.1)	NOT USED	NOT USED	NOT USED
SEPARATED? (CBC TABLE 508.4)	NOT REQUIRED	NO, SEE CALC. BELOW	YES PER CBC 903.2.1.2 (4)
ALLOWABLE AREA DETERMINATION (CBC 506.2)	N/A	N/A	N/A
A <sub>t</sub> = TABULAR ALLOWABLE AREA (CBC TABLE 506.2)	38,000 SF	38,000 SF	38,000 SF
NS = TABULAR ALLOWABLE AREA FACTOR	N/A	N/A	N/A
l <sub>t</sub> = FRONTAGE INCREASE (CBC 506.3)	N/A	N/A	N/A
ALLOWABLE BUILDING HEIGHT (CBC TABLE 504.3)	60'	60'	60'
ALLOWABLE NUMBER OF STORIES (CBC TABLE 504.4)	2	2	2
ACTUAL AREA / ALLOWABLE AREA	11,477 SF / 38,000 SF = .30 < 1 = OK	11,248 SF / 38,000 SF = .30 < 1 = OK	4,952 SF / 38,000 SF = .13 < 1 = OK

BUILDING G ACCESSORY OCCUPANCY

E IS MAIN OCCUPANCY (NO SEPARATION REQUIRED BETWEEN A-2 AND E)  
B OCCUPANCY IS ACCESSORY PER CBC 508.2  
B OCCUPANCY AREA = 926 SF  
TOTAL AREA = 10,468 SF  
B/TOTAL = .09 (LESS THAN 10% PER 508.2.3)

LEGEND

(E) BUILDING, NOT UNDER SCOPE OF WORK

BUILDING UNDER SCOPE OF WORK

20'-0" CLEAR FIRE ACCESS LANE

ACCESSIBLE BATHROOM FACILITIES:  
(W) WOMENS (M) MENS  
(G) GIRLS, AGES 5-12 (B) BOYS, AGES 5-12  
(N) GENDER NEUTRAL (DF) DRINKING FOUNTAIN  
(K) AGES 3-4

ACCESSIBLE PATH OF TRAVEL

PROPERTY LINE

FIRE HYDRANT AND 150' RADIUS CIRCLE

LOCATION OF ACCESSIBLE EXTERIOR EXIT DOORS, ENTRANCES, AND EGRESS

DSA SUBMITTAL

WESTMORE OAKS SCHOOL  
NEW BLDGS F & G AND BLDG M ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

CODE ANALYSIS - SITE PLAN

Date  
05/20/2019

Scale  
1" = 40'-0"

Drawn  
AA

Checked  
AM

Project Number  
19003

Drawing Number  
A0.4

ARCHITECT  
ENGINEER

LICENSED ARCHITECT  
No. C 30345  
Ren.: 9/30/19  
STATE OF CALIFORNIA

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NO. REMARKS DATE

REVISION HISTORY

DRAWING STATUS  
● DSA PLAN CHECK  
○ DSA BACK CHECK  
○ BIDDING  
○ CONSTRUCTION

DATE  
05/20/2019

KEY PLAN

WASHINGTON UNIFIED SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

REF: 7 / AF5.1

CODE ANALYSIS SITE PLAN

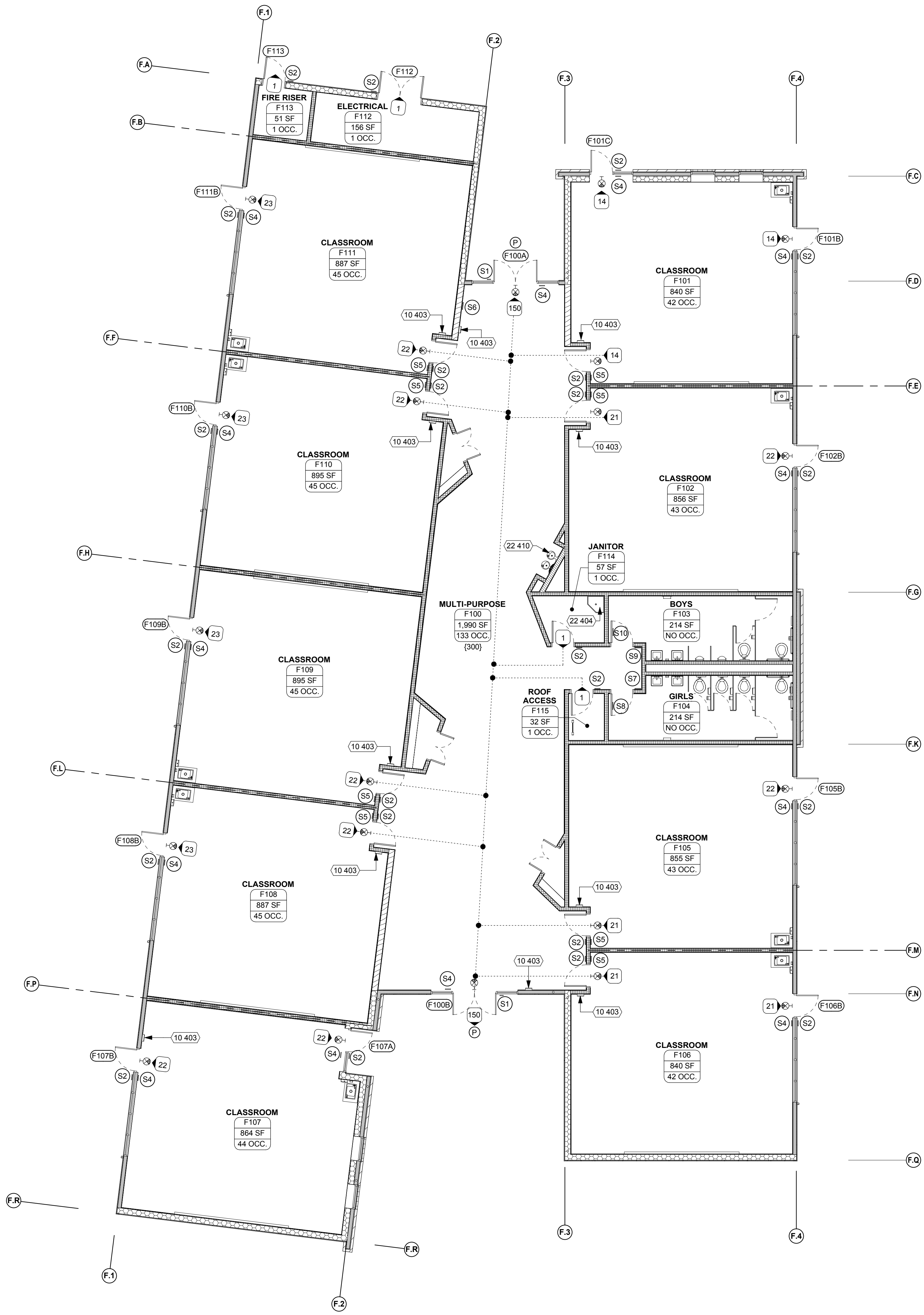
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15



PRINT DATE: 5/17/2019 10:24:18 AM  
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REF: 7 / AF5.1



BUILDING F CODE ANALYSIS PLAN

1/8" = 1'-0" 15

OCCUPANT LOAD CHART

ROOM NUMBER	ROOM NAME	FUNCTION OF SPACE (CBC TABLE 1004.1.2)	SQ. FT. (NET)	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
F100	MULTI-PURPOSE	Assembly Unconcentrated (tables and chairs)	1,990 SF	15	133
F101	CLASSROOM	Educational Classroom area	840 SF	20	42
F102	CLASSROOM	Educational Classroom area	856 SF	20	43
F103	BOYS	(none)	214 SF		
F104	GIRLS	(none)	214 SF		
F105	CLASSROOM	Educational Classroom area	855 SF	20	43
F106	CLASSROOM	Educational Classroom area	840 SF	20	42
F107	CLASSROOM	Educational Classroom area	864 SF	20	44
F108	CLASSROOM	Educational Classroom area	887 SF	20	45
F109	CLASSROOM	Educational Classroom area	895 SF	20	45
F110	CLASSROOM	Educational Classroom area	895 SF	20	45
F111	CLASSROOM	Educational Classroom area	887 SF	20	45
F112	ELECTRICAL	Accessory Storage Areas, Mechanical Equipment Room	156 SF	300	1
F113	FIRE RISER	Accessory Storage Areas, Mechanical Equipment Room	51 SF	300	1
F114	JANITOR	Accessory Storage Areas, Mechanical Equipment Room	57 SF	300	1
F115	ROOF ACCESS	Accessory Storage Areas, Mechanical Equipment Room	32 SF	300	1
			10,533 SF		531

KEY NOTES

NUMBER	NOTE
10 403	FIRE EXTINGUISHER (2A-10B.C) IN SEMI-RECESSED CABINET (SEE DETAIL 25/A10.10.2)
22 404	MOP SINK (SEE DETAIL 6/A10.10.3)
22 410	HI-LO DRINKING FOUNTAIN WITH BOTTLE FILLER (SEE DETAIL 23/A10.10.2)

GENERAL NOTES

- WHERE OCCUPANT LOAD SIGN IS REQUIRED, THE SIGN SHALL BE POSTED NEAR THE MAIN EXIT FROM THE ROOM.
- REQUIRED MEANS OF EGRESS SHALL BE MAINTAINED DURING CONSTRUCTION AND DEMOLITION, CFC 1411.2.
- EXIT ILLUMINATION SHALL BE MAINTAINED PER CFC 1027.3.
- NUMBER OF EXITS SHOWN COMPLY WITH THE MINIMUM REQUIREMENTS SET FORTH IN CBC SECTION 1006.2. WHEN THERE ARE MORE THAN ONE REQUIRED EXIT, THE EXITS SHALL BE LOCATED PER SECTION 1007.1.1, EXCEPTION 2.
- NO EXIT DOOR SHALL BE LESS THAN 32" CLEAR WIDTH.

SIGNAGE LEGEND

- (S1) ACCESSIBLE ENTRANCE SIGN, SEE DETAIL 7 / A10.10.1
- (S2) ROOM IDENTIFICATION SIGN, SEE DETAIL 8 / A10.10.1
- (S3) ABOVE DOOR SIGN, SEE DETAIL 5 / A10.10.1
- (S4) EXIT SIGN, SEE DETAIL 9 / A10.10.1
- (S5) EXIT ROUTE SIGN, SEE DETAIL 10 / A10.10.1
- (S6) MAXIMUM OCCUPANCY SIGN, SEE DETAIL 11 / A10.10.1
- (S7) WOMEN WALL MOUNTED SIGN, SEE DETAIL 12 / A10.10.1
- (S8) WOMEN DOOR SIGN, SEE DETAIL 13 / A10.10.1
- (S9) MEN WALL MOUNTED SIGN, SEE DETAIL 14 / A10.10.1
- (S10) MEN DOOR SIGN, SEE DETAIL 15 / A10.10.1
- (S11) GENDER NEUTRAL WALL MOUNTED SIGN, SEE DETAIL 16 / A10.10.1
- (S12) GENDER NEUTRAL DOOR SIGN, SEE DETAIL 17 / A10.10.1
- (S13) NOT AN EXIT SIGN, SEE DETAIL 18 / A10.10.1

EXIT WIDTH CALCULATIONS

MARK	DOOR WIDTH	EXITING OCCUPANTS	MINIMUM EXIT WIDTH REQUIRED (EXITING OCCUPANTS * 2)	EXIT WIDTH PROVIDED
F100A	6'-0"	150	30"	68"
F100B	6'-0"	150	30"	68"
F101B	3'-0"	14	3"	32"
F101C	3'-0"	15	3"	32"
F102B	3'-0"	22	4"	32"
F105B	3'-0"	22	4"	32"
F106B	3'-0"	22	4"	32"
F107A	3'-0"	22	4"	32"
F107B	3'-0"	23	5"	32"
F108B	3'-0"	23	5"	32"
F109B	3'-0"	23	5"	32"
F110B	3'-0"	23	5"	32"
F111B	3'-0"	23	5"	32"
F112	6'-0"	1	1"	68"
F113	3'-0"	1	1"	32"

PLUMBING ANALYSIS

PLUMBING OCCUPANCY (CPC CH. 4 TABLE A) - BLDG F			
OCCUPANT LOAD	AREA	OCC. LOAD FACTOR	TOTAL PERSONS
GROUP E - SCHOOLS FOR DAY CARE, ELEMENTARY, SECONDARY	7,819 SF	50	157
NON-OCCUPIED	2,713 SF	0	0
	10,533 SF		157
MINIMUM PLUMBING FACILITIES (CPC TABLE 422.1) 158 OCCUPANTS = 79 MEN AND 79 WOMEN			
FIXTURE TYPE		REQUIRED	PROVIDED
WATER CLOSETS		2 MALE 3 FEMALE	2 MALE 4 FEMALE
URINALS		1 MALE	2 MALE
LAVATORIES		2 MALE 2 FEMALE	2 MALE 2 FEMALE
WATER FOUNTAINS		2	2
SERVICE SINK OR LAUNDRY TRAY		1	1

EXITING DISTRIBUTION CALCS

**DISTRIBUTION OF MINIMUM WIDTH AND REQUIRED CAPACITY (CBC SECTION 1006.5)**  
WHERE MORE THAN ONE EXIT OR ACCESS TO MORE THAN ONE EXIT, IS REQUIRED, THE MEANS OF EGRESS SHALL BE CONFIGURED SUCH THAT THE LOSS OF ANY ONE EXIT, OR ACCESS TO ONE EXIT, SHALL NOT REDUCE THE AVAILABLE CAPACITY OR WIDTH TO LESS THAN 50 PERCENT OF THE REQUIRED CAPACITY OR WIDTH.

**MULTI-PURPOSE**  
LARGEST EXIT = 5'-9"  
TOTAL PROVIDED = 11'-4"  
50% OF REQUIRED CAPACITY = 2'-6" x 0.50 = 1'-3"  
AVAILABLE CAPACITY = 11'-4" (+) 5'-6" = 6'-9" > 1'-3" = OK

**EXIT ACCESS DOORWAY DISTANCE (SPRINKLERED) (CBC 1007.1.1)**  
EXITS REQUIRED: 2  
MULTI-PURPOSE DIAGONAL: 100'-10"  
DISTANCE BETWEEN EXITS: 95'-5"  
100'-10" / 3 = 33'-6"  
95'-5" > 33'-6" = OK

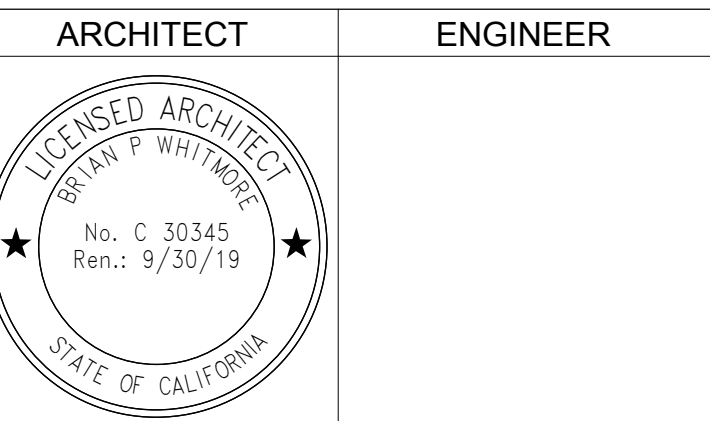
LEGEND

- ILLUMINATED EXIT SIGN, SEE ELECTRICAL DRAWINGS. EXIT SIGNAGE TO ACCOMPANY ALL ILLUMINATED EXIT SIGNS. L = LOW LEVEL ILLUMINATED EXIT SIGN (WHERE OCCURS)
- LOBBY  
A119  
21,500 SF  
122 OCC  
(134)  
AREA DENSITY CODE ANALYSIS  
LOBBY  
A119  
21,500 SF  
122  
(134)  
= ROOM NAME  
= ROOM NUMBER  
= FLOOR AREA  
= OCCUPANT LOAD  
= OCCUPANT LOAD PLUS ANCILLARY SPACE WHERE OCCURS
- PATH OF EGRESS  
41 = OCCUPANT LOAD  
STARTING POINT OF PATH OF TRAVEL TO EXIT MARKED BY DOT AT THE BEGINNING OF EGRESS LINE
- PANIC HARDWARE DEVICE - REFERENCE DOOR SCHEDULE AND HARDWARE GROUP

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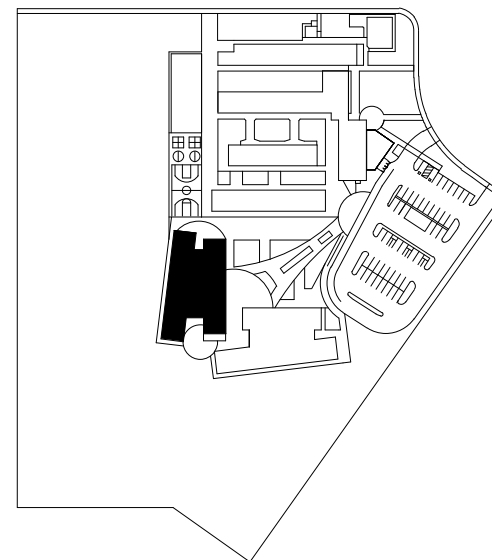
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NO.	REMARKS	DATE

- DRAWING STATUS
- DSA PLAN CHECK
  - DSA BACK CHECK
  - BIDDING
  - CONSTRUCTION
- DATE: 05/20/2019



WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DSA SUBMITTAL

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

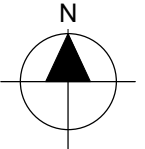
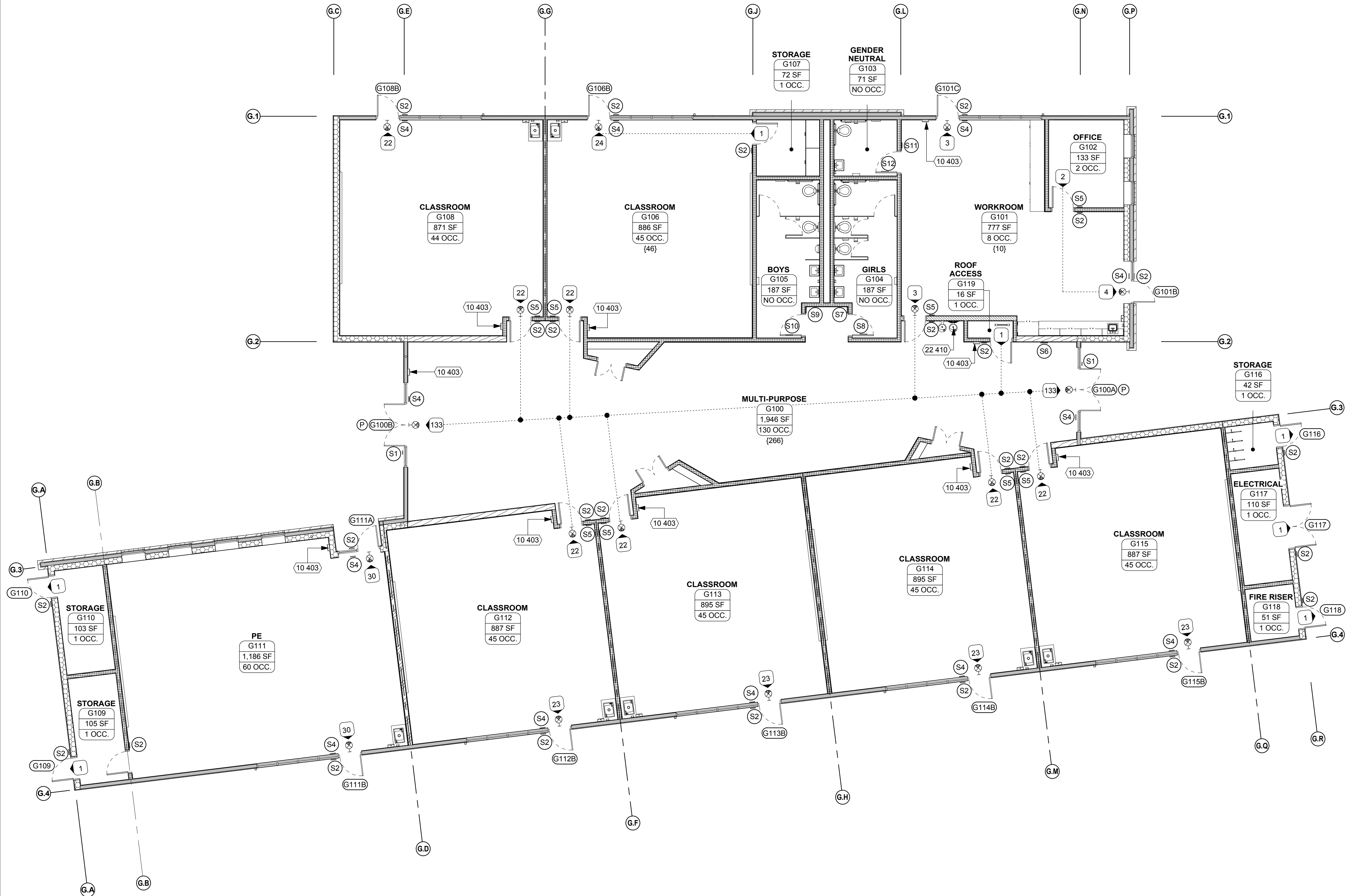
CODE ANALYSIS -  
BUILDING F FLOOR PLAN

Date: 05/20/2019  
Scale: 1/8" = 1'-0"  
Drawn: AA  
Checked: AM  
Project Number: 19003  
Drawing Number: A0.5



PRINT DATE: 5/17/2019 10:24:19 AM  
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REF: 7 / AF5.1



BUILDING G CODE ANALYSIS PLAN 1/8" = 1'-0" 15

### OCCUPANT LOAD CHART

ROOM NUMBER	ROOM NAME	FUNCTION OF SPACE (CBC TABLE 1004.1.2)	SQ. FT. (NET)	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
G100	MULTI-PURPOSE	Assembly Unconcentrated (tables and chairs)	1,946 SF	15	130
G101	WORKROOM	Business Areas	777 SF	100	8
G102	OFFICE	Business Areas	133 SF	100	2
G103	GENDER NEUTRAL	(none)	71 SF		
G104	GIRLS	(none)	187 SF		
G105	BOYS	(none)	187 SF		
G106	CLASSROOM	Educational Classroom area	886 SF	20	45
G107	STORAGE	Accessory Storage Areas, Mechanical Equipment Room	72 SF	300	1
G108	CLASSROOM	Educational Classroom area	871 SF	20	44
G109	STORAGE	Accessory Storage Areas, Mechanical Equipment Room	105 SF	300	1
G110	STORAGE	Accessory Storage Areas, Mechanical Equipment Room	103 SF	300	1
G111	PE	Educational Classroom area	1,186 SF	20	60
G112	CLASSROOM	Educational Classroom area	887 SF	20	45
G113	CLASSROOM	Educational Classroom area	895 SF	20	45
G114	CLASSROOM	Educational Classroom area	895 SF	20	45
G115	CLASSROOM	Educational Classroom area	887 SF	20	45
G116	STORAGE	Accessory Storage Areas, Mechanical Equipment Room	42 SF	300	1
G117	ELECTRICAL	Accessory Storage Areas, Mechanical Equipment Room	110 SF	300	1
G118	FIRE RISER	Accessory Storage Areas, Mechanical Equipment Room	51 SF	300	1
G119	ROOF ACCESS	Accessory Storage Areas, Mechanical Equipment Room	16 SF	300	1
			10,305 SF		474

### EXIT WIDTH CALCULATIONS

MARK	DOOR WIDTH	EXITING OCCUPANTS	MINIMUM EXIT WIDTH REQUIRED (EXITING OCCUPANTS * 2)	EXIT WIDTH PROVIDED
G100A	6'-0"	133	27'	68"
G100B	6'-0"	133	27'	68"
G101B	3'-0"	4	1"	32"
G101C	3'-0"	3	1"	32"
G106B	3'-0"	24	5"	32"
G108B	3'-0"	23	5"	32"
G109	3'-0"	1	1"	32"
G110	3'-0"	1	1"	32"
G111A	3'-0"	31	6"	32"
G111B	3'-0"	30	6"	32"
G112B	3'-0"	23	5"	32"
G113B	3'-0"	23	5"	32"
G114B	3'-0"	23	5"	32"
G115B	3'-0"	23	5"	32"
G116	3'-0"	1	1"	32"
G117	6'-0"	1	1"	68"
G118	3'-0"	1	1"	32"

### EXITING DISTRIBUTION CALCS

**DISTRIBUTION OF MINIMUM WIDTH AND REQUIRED CAPACITY (CBC SECTION 1005.9)**  
WHERE MORE THAN ONE EXIT, OR ACCESS TO MORE THAN ONE EXIT, IS REQUIRED, THE MEANS OF EGRESS SHALL BE CONFIGURED SUCH THAT THE LOSS OF ANY ONE EXIT, OR ACCESS TO ONE EXIT, SHALL NOT REDUCE THE AVAILABLE CAPACITY OR WIDTH TO LESS THAN 50 PERCENT OF THE REQUIRED CAPACITY OR WIDTH.

**MULTI-PURPOSE**  
LARGEST EXIT = 5'-9"  
TOTAL PROVIDED = 11'-4"  
50% OF REQUIRED CAPACITY = 2'-3" x 0.50 = 1'-2"  
AVAILABLE CAPACITY = 11'-4" (-) 5'-6" = 5'-8" > 1'-2" = OK

**EXIT ACCESS DOORWAY DISTANCE (SPRINKLERED) (CBC 1007.1.1)**  
EXITS REQUIRED: 2  
MULTI-PURPOSE DIAGONAL: 98'-3"  
DISTANCE BETWEEN EXITS: 95'-0"  
98'-3" / 3 = 32'-9"  
95'-0" > 23'-9" = OK

### KEY NOTES

NUMBER	NOTE
10 403	FIRE EXTINGUISHER (2A-10B.C) IN SEMI-RECESSED CABINET (SEE DETAIL 25A/10.10.2)
22 410	HI-LO DRINKING FOUNTAIN WITH BOTTLE FILLER (SEE DETAIL 23A/10.10.2)

### GENERAL NOTES

- WHERE OCCUPANT LOAD SIGN IS REQUIRED, THE SIGN SHALL BE POSTED NEAR THE MAIN EXIT FROM THE ROOM. REFER TO SIGNAGE SCHEDULE FOR DETAILS.
- REQUIRED MEANS OF EGRESS SHALL BE MAINTAINED DURING CONSTRUCTION AND DEMOLITION. CFC 1411.2
- EXIT ILLUMINATION SHALL BE MAINTAINED PER CFC 1027.3.
- NUMBER OF EXITS SHOWN COMPLY WITH THE MINIMUM REQUIREMENTS SET FORTH IN CBC SECTION 1008.2. WHEN THERE ARE MORE THAN ONE REQUIRED EXIT, THE EXITS SHALL BE LOCATED PER SECTION 1007.1.1. EXCEPTION 2.
- NO EXIT DOOR SHALL BE LESS THAN 32" CLEAR WIDTH.

### SIGNAGE LEGEND

- (S1) ACCESSIBLE ENTRANCE SIGN, SEE DETAIL 7 / A10.10.1
- (S2) ROOM IDENTIFICATION SIGN, SEE DETAIL 8 / A10.10.1
- (S3) ABOVE DOOR SIGN, SEE DETAIL 5 / A10.10.1
- (S4) EXIT SIGN, SEE DETAIL 9 / A10.10.1
- (S5) EXIT ROUTE SIGN, SEE DETAIL 10 / A10.10.1
- (S6) MAXIMUM OCCUPANCY SIGN, SEE DETAIL 11 / A10.10.1
- (S7) WOMEN WALL MOUNTED SIGN, SEE DETAIL 12 / A10.10.1
- (S8) WOMEN DOOR SIGN, SEE DETAIL 13 / A10.10.1
- (S9) MEN WALL MOUNTED SIGN, SEE DETAIL 14 / A10.10.1
- (S10) MEN DOOR SIGN, SEE DETAIL 15 / A10.10.1
- (S11) GENDER NEUTRAL WALL MOUNTED SIGN, SEE DETAIL 16 / A10.10.1
- (S12) GENDER NEUTRAL DOOR SIGN, SEE DETAIL 17 / A10.10.1
- (S13) NOT AN EXIT SIGN, SEE DETAIL 18 / A10.10.1

### PLUMBING ANALYSIS

PLUMBING OCCUPANCY (CPC CH. 4 TABLE A) - BLDG G			
OCCUPANT LOAD	AREA	OCC. LOAD FACTOR	TOTAL PERSONS
GROUP B - OFFICE OR PUBLIC BUILDINGS	910 SF	200	5
GROUP E - SCHOOLS FOR DAY CARE, ELEMENTARY SECONDARY	6,506 SF	50	131
NON-OCCUPIED	2,888 SF	0	0
10,305 SF 136			
MINIMUM PLUMBING FACILITIES (CPC TABLE 422.1) 137 OCCUPANTS = 69 MEN AND 69 WOMEN			
FIXTURE TYPE		REQUIRED	PROVIDED
WATER CLOSETS		2 MALE 3 FEMALE	2 MALE 3 FEMALE 1 UNISEX
URINALS		1 MALE	1 MALE
LAVATORIES		2 MALE 2 FEMALE	2 MALE 2 FEMALE 1 UNISEX
WATER FOUNTAINS		2	2
SERVICE SINK OR LAUNDRY TRAY		1	1

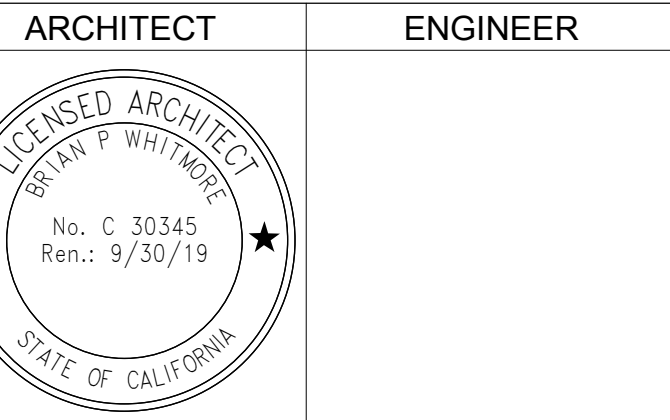
### LEGEND

- ILLUMINATED EXIT SIGN, SEE ELECTRICAL DRAWINGS. EXIT SIGNAGE TO ACCOMPANY ALL ILLUMINATED EXIT SIGNS. L = LOW LEVEL ILLUMINATED EXIT SIGN (WHERE OCCURS)
- LOBBY  
A119  
21,500 SF  
122 OCC.  
(134)
- AREA IDENTITY/ CODE ANALYSIS  
LOBBY = ROOM NAME  
A119 = ROOM NUMBER  
21,500 SF = FLOOR AREA  
122 = OCCUPANT LOAD  
134 = OCCUPANT LOAD PLUS ANCILLARY SPACE WHERE OCCURS
- PATH OF EGRESS  
41 = OCCUPANT LOAD  
STARTING POINT OF PATH OF TRAVEL TO EXIT MARKED BY DOT AT THE BEGINNING OF EGRESS LINE
- PANIC HARDWARE DEVICE - REFERENCE DOOR SCHEDULE AND HARDWARE GROUP

BCA

architecture  
planning  
interiors

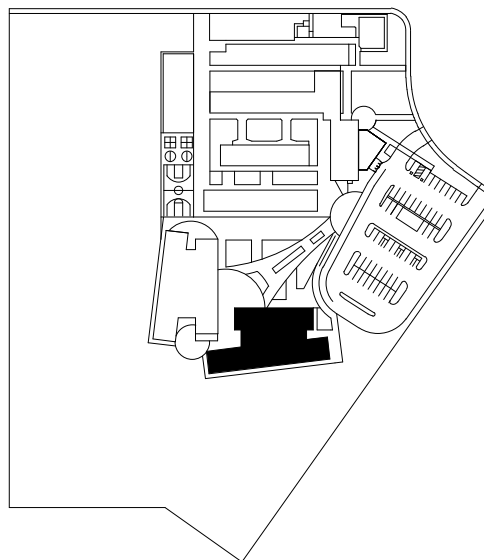
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NO.	REMARKS	DATE

- REVISION HISTORY
- DRAWING STATUS
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  - DSA BACK CHECK
  - BIDDING
  - CONSTRUCTION
- DATE: 05/20/2019



WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DSA SUBMITTAL

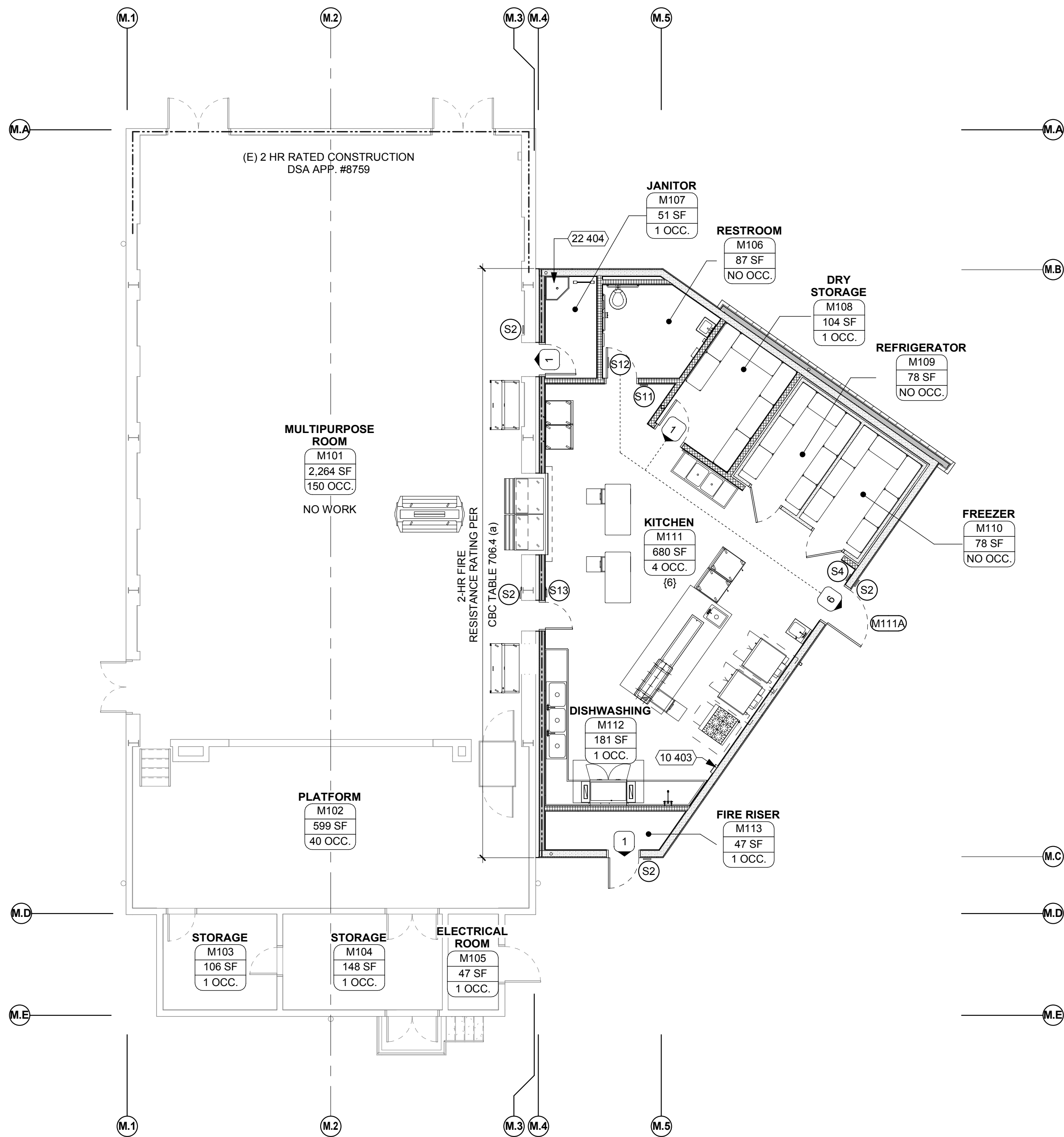
WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

CODE ANALYSIS -  
BUILDING G FLOOR PLAN

Date: 05/20/2019  
Scale: 1/8" = 1'-0"  
Drawn: AA  
Checked: AM  
Project Number: 19003  
Drawing Number: A0.6



REF: 7 / AF5.1



BUILDING M CODE ANALYSIS PLAN

1/8" = 1'-0" 15

OCCUPANT LOAD CHART

ROOM NUMBER	ROOM NAME	FUNCTION OF SPACE (CBC TABLE 1004.1.2)	SQ. FT. (NET)	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
M101	MULTIPURPOSE ROOM	Assembly Unconcentrated (tables and chairs)	2,264 SF	15	151
M102	PLATFORM	Stages and Performances	599 SF	15	40
M103	STORAGE	Accessory Storage Areas, Mechanical Equipment Room	106 SF	300	1
M104	STORAGE	Accessory Storage Areas, Mechanical Equipment Room	148 SF	300	1
M105	ELECTRICAL ROOM	Accessory Storage Areas, Mechanical Equipment Room	47 SF	300	1
M106	RESTROOM	(none)	87 SF		
M107	JANITOR	Accessory Storage Areas, Mechanical Equipment Room	51 SF	300	1
M108	DRY STORAGE	Kitchens, Commercial	104 SF	200	1
M109	REFRIGERATOR	(none)	78 SF		
M110	FREEZER	(none)	78 SF		
M111	KITCHEN	Kitchens, Commercial	680 SF	200	4
M112	DISHWASHING	Kitchens, Commercial	181 SF	200	1
M113	FIRE RISER	Accessory Storage Areas, Mechanical Equipment Room	47 SF	300	1
			4,470 SF		202

KEY NOTES

NUMBER	NOTE
10 403	FIRE EXTINGUISHER (2A-10B.C) IN SEMI-RECESSED CABINET (SEE DETAIL 25A/10.10.2)
22 404	MOP SINK (SEE DETAIL 6/A10.10.3)

GENERAL NOTES

- WHERE OCCUPANT LOAD SIGN IS REQUIRED, THE SIGN SHALL BE POSTED NEAR THE MAIN EXIT FROM THE ROOM. REFER TO SIGNAGE SCHEDULE FOR DETAILS.
- REQUIRED MEANS OF EGRESS SHALL BE MAINTAINED DURING CONSTRUCTION AND DEMOLITION, CFC 1411.2
- EXIT ILLUMINATION SHALL BE MAINTAINED PER CFC 1027.3.
- NUMBER OF EXITS SHOWN COMPLY WITH THE MINIMUM REQUIREMENTS SET FORTH IN CBC SECTION 1008.2. WHEN THERE ARE MORE THAN ONE REQUIRED EXIT, THE EXITS SHALL BE LOCATED PER SECTION 1007.1.1, EXCEPTION 2.
- NO EXIT DOOR SHALL BE LESS THAN 32" CLEAR WIDTH.

SIGNAGE LEGEND

- §1 ACCESSIBLE ENTRANCE SIGN, SEE DETAIL 7 / A10.10.1
- §2 ROOM IDENTIFICATION SIGN, SEE DETAIL 8 / A10.10.1
- §3 ABOVE DOOR SIGN, SEE DETAIL 5 / A10.10.1
- §4 EXIT SIGN, SEE DETAIL 9 / A10.10.1
- §5 EXIT ROUTE SIGN, SEE DETAIL 10 / A10.10.1
- §6 MAXIMUM OCCUPANCY SIGN, SEE DETAIL 11 / A10.10.1
- §7 WOMEN WALL MOUNTED SIGN, SEE DETAIL 12 / A10.10.1
- §8 WOMEN DOOR SIGN, SEE DETAIL 13 / A10.10.1
- §9 MEN WALL MOUNTED SIGN, SEE DETAIL 14 / A10.10.1
- §10 MEN DOOR SIGN, SEE DETAIL 15 / A10.10.1
- §11 GENDER NEUTRAL WALL MOUNTED SIGN, SEE DETAIL 16 / A10.10.1
- §12 GENDER NEUTRAL DOOR SIGN, SEE DETAIL 17 / A10.10.1
- §13 NOT AN EXIT SIGN, SEE DETAIL 18 / A10.10.1

EXIT WIDTH CALCULATIONS

MARK	DOOR WIDTH	EXITING OCCUPANTS	MINIMUM EXIT WIDTH REQUIRED (EXITING OCCUPANTS * 2)	EXIT WIDTH PROVIDED
M101F	3'-0"			32"
M111A	4'-0"	7	14'	44"
M111C	8'-0"			92"
M113	3'-0"	1	2'	32"

PLUMBING ANALYSIS

PLUMBING OCCUPANCY (CPC CH. 4 TABLE A) - BLDG M			
OCCUPANT LOAD	AREA	OCC. LOAD FACTOR	TOTAL PERSONS
EXISTING	3,164 SF	0	0
GROUP B - OFFICE OR PUBLIC BUILDINGS	861 SF	200	4
GROUP S - WAREHOUSE	202 SF	5000	3
NON-OCCUPIED	243 SF	0	0
	4,470 SF		7
MINIMUM PLUMBING FACILITIES FOR NEW ADDITION (CPC TABLE 422.1) 8 OCCUPANTS			
FIXTURE TYPE		REQUIRED	PROVIDED
WATER CLOSETS			
URINALS			
LAVATORIES			
		ONE FACILITY PROVIDED PER CPC 422.2 EXCEPTION (2)	
WATER FOUNTAINS		1	
SERVICE SINK OR LAUNDRY TRAY		1	1

LEGEND

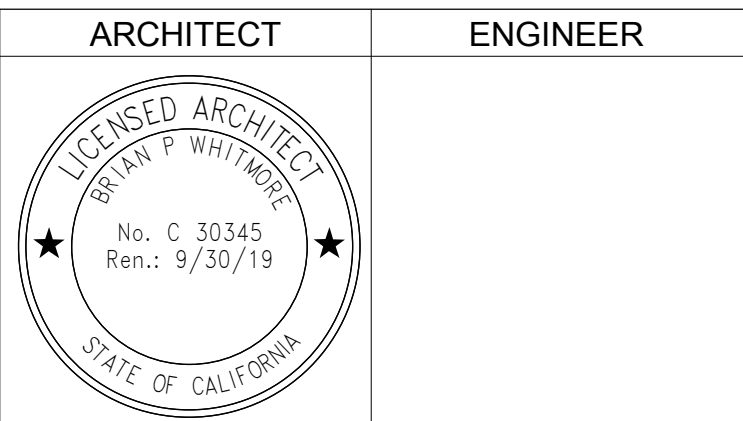
- ILLUMINATED EXIT SIGN. SEE ELECTRICAL DRAWINGS. EXIT SIGNAGE TO ACCOMPANY ALL ILLUMINATED EXIT SIGNS. L = LOW LEVEL ILLUMINATED EXIT SIGN (WHERE OCCURS)
- LOBBY A119 21,500 SF 122 OCC (134)
  - AREA IDENTITY/ CODE ANALYSIS
    - LOBBY = ROOM NAME
    - A119 = ROOM NUMBER
    - 21,500 SF = FLOOR AREA
    - 122 = OCCUPANT LOAD
    - (134) = OCCUPANT LOAD PLUS ANCILLARY SPACE WHERE OCCURS
- PATH OF EGRESS 41 = OCCUPANT LOAD STARTING POINT OF PATH OF TRAVEL TO EXIT MARKED BY DOT AT THE BEGINNING OF EGRESS LINE
- PANIC HARDWARE DEVICE - REFERENCE DOOR SCHEDULE AND HARDWARE GROUP

DSA STAMP

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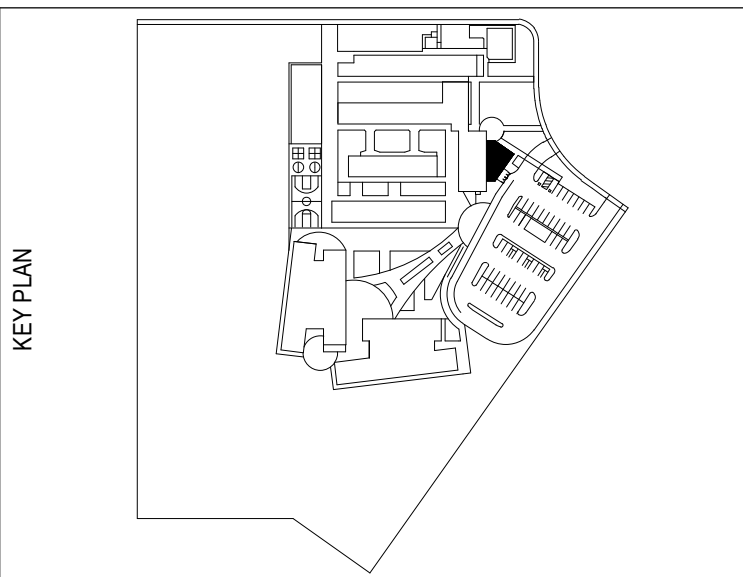
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NO.	REMARKS	DATE

DRAWING STATUS	DATE
● DSA PLAN CHECK	05/20/2019
○ DSA BACK CHECK	
○ BIDDING	
○ CONSTRUCTION	



WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DSA SUBMITTAL

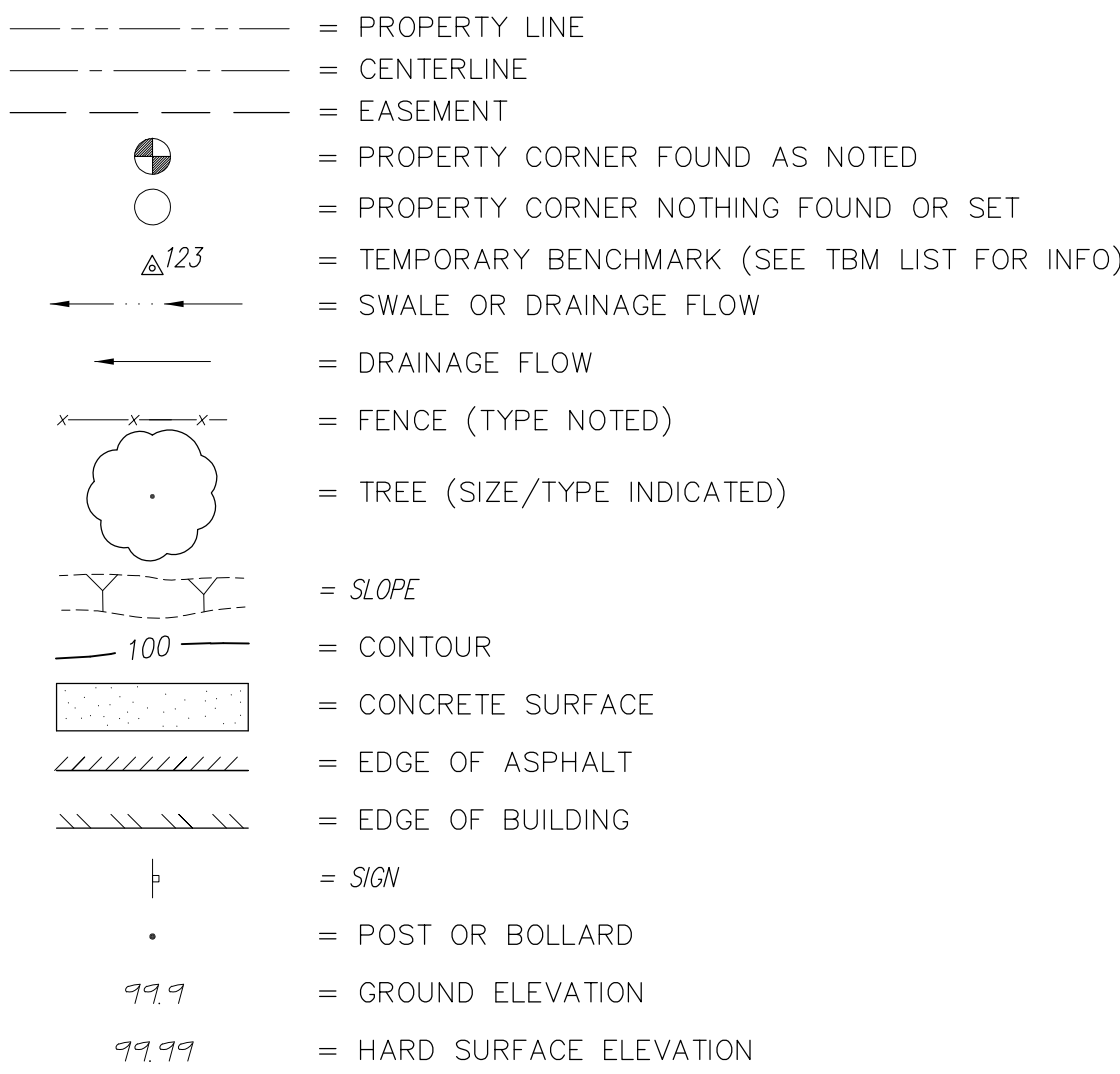
WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

CODE ANALYSIS -  
BUILDING M FLOOR PLAN

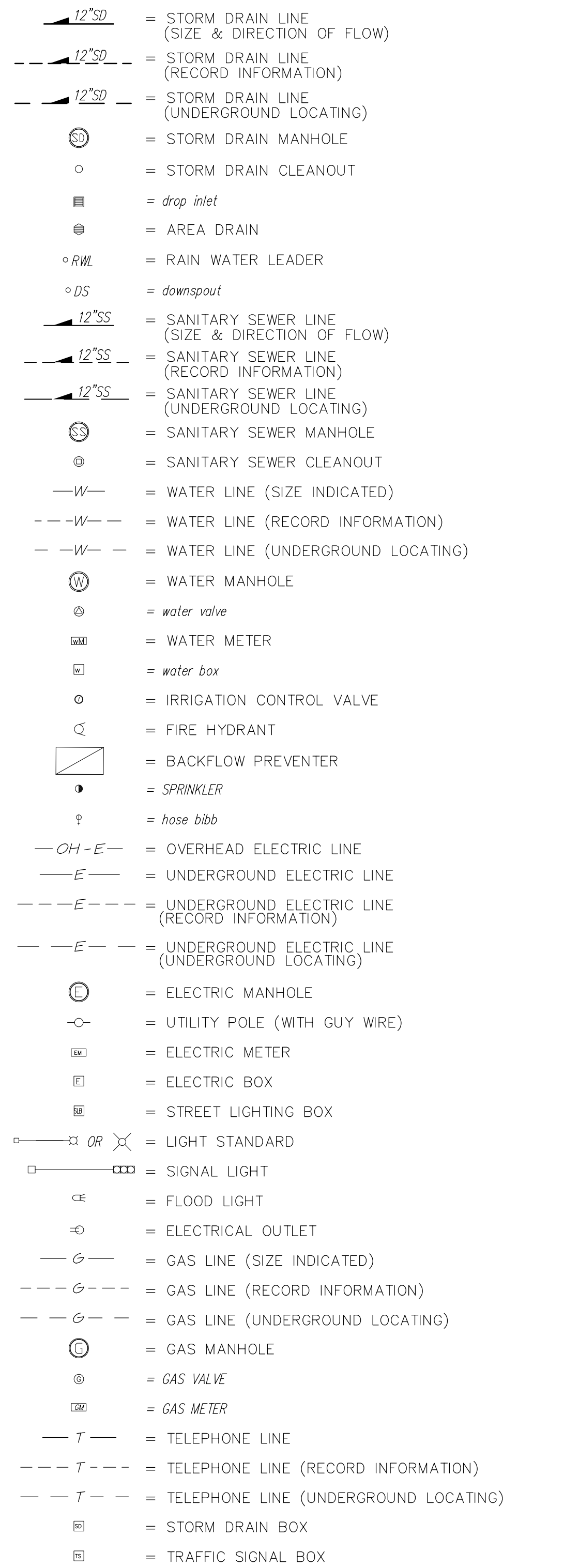
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05/20/2019  
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1/8" = 1'-0"  
Drawn  
AA  
Checked  
AM  
Project Number  
19003  
Drawing Number  
A0.7



EXISTING TOPOGRAPHY



EXISTING UTILITIES



A.P.N.	058-220-043
BENCHMARK No.	C17-01
ELEV.	13.32

FOUND A 34" BRASS DISK SET IN A STANDARD MONUMENT BOX  
STAMPED: CITY OF WEST SACRAMENTO VERTICAL AND HORIZONTAL  
CONTROL POINT C17-01, RCE 30639, 1992, LOCATED ALONG THE  
APPROX. C/L OF MOSSWOOD CIR., 204' SOUTHERLY OF THE C/L  
OF LAKEWOOD DR.

TOPGRAPHIC SURVEY  
ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.	AC ASPHALTIC CONCRETE
ACR ASPHALTIC CONCRETE RAMP	AD AREA DRAIN
APN ASSESSOR'S PARCEL NUMBER	APP APPARATUS
ARV AIR RELEASE VALVE	BBALL BASKETBALL POLE
BCM BRASS CAP MONUMENT	BFP BACK FLOW PREVENTER
BL BLOCK	BLDG BUILDING
BOL BOLLARD	BOV BLOW-OFF VALVE
BRICK BARBED WIRE FENCE	BWF BRICK
C CABINET	CAB CABLE TELEVISION
CATV COMMUNICATIONS BOX	CB CARPENTRY
C/L CENTERLINE	C/LT CHAIN LINK FENCE
CMP CORRUGATED METAL PIPE	CO CLEANOUT
COL COLUMN	CONC. CONCRETE
COND. CONDENSATE	CPF CONTROL POINT FOUND
CPS CONTROL POINT SET	CS CONCRETE SURFACE
CS DEPTH	DDC DOUBLE DETECTOR CHECK VALVE
DF DRINKING FOUNTAIN	DC DECOMPOSED GRANITE
DI DROP INLET	DIA DIAMETER
DRIVEWAY	DS DOWNSPOUT
DWG DRAWING	EB ELECTRICAL BOX
EX EXISTING	EXMT EXISTING
FA FIRE LINE	FB FIRE ALARM
FB FIRE BOX	FDC FIRE DEPARTMENT CONNECTION
FEE FINISHED FLOOR ELEVATION	FH FIRE HYDRANT
FL FLOWLINE	FO FIBER OPTIC
FP FLAGPOLE	FS FIRE SERVICE
GR GRATE	GB GRADE BREAK
GRB GROUND ROD BOX	GRD GROUND ELEVATION
GRD GROUND ROD	GV GAS VALVE
GV GAS VALVE	HYDROHONICS
HB HOSE BIBB	HBB HOSE BIBB BOX
HBB HOSE BIBB BOX	HBD HEADER BOARD
HR HANDRAIL	ICP IRRIGATION CONTROL PANEL
ICV IRRIGATION CONTROL VALVE	INV PIPE INVERT ELEVATION
IRR IRRIGATION	JP JOINT UTILITY POLE
JT JOINT TRENCH	LF LINEAL FEET
LNDG LANDING	LVE LOW VOLTAGE ELECTRIC
M MANHOLE	MR METAL RAMP
MS MOW STRIP	MSC METAL STORAGE CONTAINER
NTS NOT TO SCALE	OH OVERHEAD
OSPH OPEN IRON PIPE	OSP OLD STEEL POST HOLE
PA PLANTER AREA	PD PLANTER DRAIN
PH POSTHOLE	PIV POST INDICATOR VALVE
PP POWER POLE	PRK PARKING
PUG PUBLIC UTILITY EASEMENT	PVC POLYVINYL CHLORIDE
R MANHOLE RIM ELEVATION	RIM RIGHT OF WAY
RR RUBBER RAMP	RW RETAINING WALL
RWD REDWOOD	RWL RAIN WATER LEADER
SB SIGNAL BOX	SD STORM DRAIN
SDM STORM DRAIN MANHOLE	SL SIGNAL
SL STREET LIGHT	SLB STREET LIGHT BOX
SSCO SANITARY SEWER CLEANOUT	SDM STANDARD
STL STEEL	TBALL TETHER BALL POLE
TBM TEMPORARY BENCHMARK	TC TOP OF CURB
TOW TOP OF WALL	TP TELEPHONE POLE
TRW TOP OF RETAINING WALL	UG UNDERGROUND
UNK UNKNOWN	UNLESS OTHERWISE NOTED
VBALL VOLLEYBALL	W WITH
W/O WITHOUT	WD WOOD
W.I.F. WROUGHT IRON FENCE	XF TRANSFORMER
XWALK CROSSWALK	

TBM LIST

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	CPS PK+SHINER	9667.87	10893.61	17.20
2	CPS CHISELED "+"	9672.72	10629.41	18.03
3	CPS PK+SHINER	9685.82	10708.33	16.49
4	CPS CHISELED "+"	9441.37	10837.35	16.36
5	CPS CHISELED "+"	9738.83	11058.00	17.50
6	CPS CHISELED "+"	9895.71	10971.56	17.50
7	CPS CHISELED "+"	9824.71	10811.81	19.22
8	CPF PK NAIL	9670.95	10865.64	17.76
9	CPF PK NAIL	9738.98	10855.76	18.78
10	CPF CHISELED "+"	9739.27	10844.09	18.83
11	CPS PICKER	9795.69	11002.65	17.52
12	CPF CHISELED "+"	9865.64	10967.96	17.32
13	CPS MAG NAIL	9646.55	10843.59	17.88
14	CPF PICKER	9824.48	10987.34	17.50
17	CPS MAG NAIL	9810.79	10850.70	19.18
19	CPF NAIL+SHINER	10000.32	11017.51	17.62
25	CPS PICKER	9546.93	10517.18	15.80
26	CPS PK+WASHER	9830.19	10636.25	17.77
27	CPS CHISELED "+"	9897.41	10684.03	19.30
28	CPS CHISELED "+"	9856.38	11017.89	17.72
31	CPS CHISELED "+"	10816.02	10217.15	13.78
32	CPS CHISELED "+"	10032.93	10267.00	15.68
33	CPS CHISELED "+"	11254.66	10213.00	14.93
34	CPF NAIL CL INT	11247.27	10235.91	15.09
35	CPS CHISELED "+"	11073.40	10209.28	14.93
36	CPS CHISELED "+"	10954.63	10209.26	14.45
37	CPF CL INTERSEC	10816.63	10235.72	14.46
38	CPS CHISELED "+"	10739.74	10257.00	14.23
39	CPS CHISELED "+"	10560.90	10256.82	14.59
40	CPS CHISELED "+"	10435.71	10256.77	14.77
41	CPS CHISELED "+"	10272.50	10256.64	15.14
42	CPS CHISELED "+"	10161.65	10256.54	15.20
43	CPF CL INTERSEC	10000.13	10235.31	15.92
44	CPF NAIL CL INT	9999.89	9999.98	15.91
45	CPS CHISELED "+"	9975.17	10043.44	15.67
46	CPS CHISELED "+"	9970.40	11011.13	17.44
47	CPF PK AT FLIGHTX	9982.51	10594.70	16.62

GENERAL NOTES:

- THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.
- WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL, IF STAKED BY OTHERS. IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE CANNOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION.
- IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF.
- CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY PRE-BID AND PRE-CONSTRUCTION SITE INSPECTION, AND/OR OBSERVATIONS ON THE SITE TO PRE-DETERMINE ALL HIS/HER MEANS AND METHODS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS AND PER THE PROJECT SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
- WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY, OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE REQUIREMENTS.
- IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS TYPE OF ROADWAY CENTERLINE, BUT MAY VARY, THAT MOWED EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAN EDGE REMAINS FOR PATCH BACK. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
- NO BURNING OR BLASTING SHALL BE ALLOWED ONSITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER ADMINISTRATIVE AUTHORITY.
- SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.
- ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.
- CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.
- EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE AN ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.
- EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE A MINOR ADJUSTMENT OF REBAR WITHIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.
- NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN.
- WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTORS EXPENSE.
- ALL CONTRACTION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL TROWELING OF CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTORS EXPENSE.
- ANY SCREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.
- 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB SLAB CONSTRUCTION.
- SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.
- ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDRO SEEDD UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS.
- REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZED PAINTS WILL NOT BE ALLOWED.

GENERAL PAVING SURFACE NOTES:

- PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99% TYPICAL, PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER, REFER TO SPECIFICATIONS.
- ALL NEW PEDESTRIAN WALKWAYS (NON-RAMP) SHALL BE SLOPED NO GREATER THAN 2.0%, AND NO LESS THAN 0.75% IN ANY DIRECTION, UNLESS SPECIFICALLY LABELED OTHERWISE. ALL CONCRETE SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS:
  - NO GREATER THAN 5% SLOPE IN THE DIRECTION OF TRAVEL.
  - NO GREATER THAN 2% SLOPE CROSSING THE DIRECTION OF TRAVEL.
  - NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS.

CIVIL ABBREVIATIONS AND LEGEND

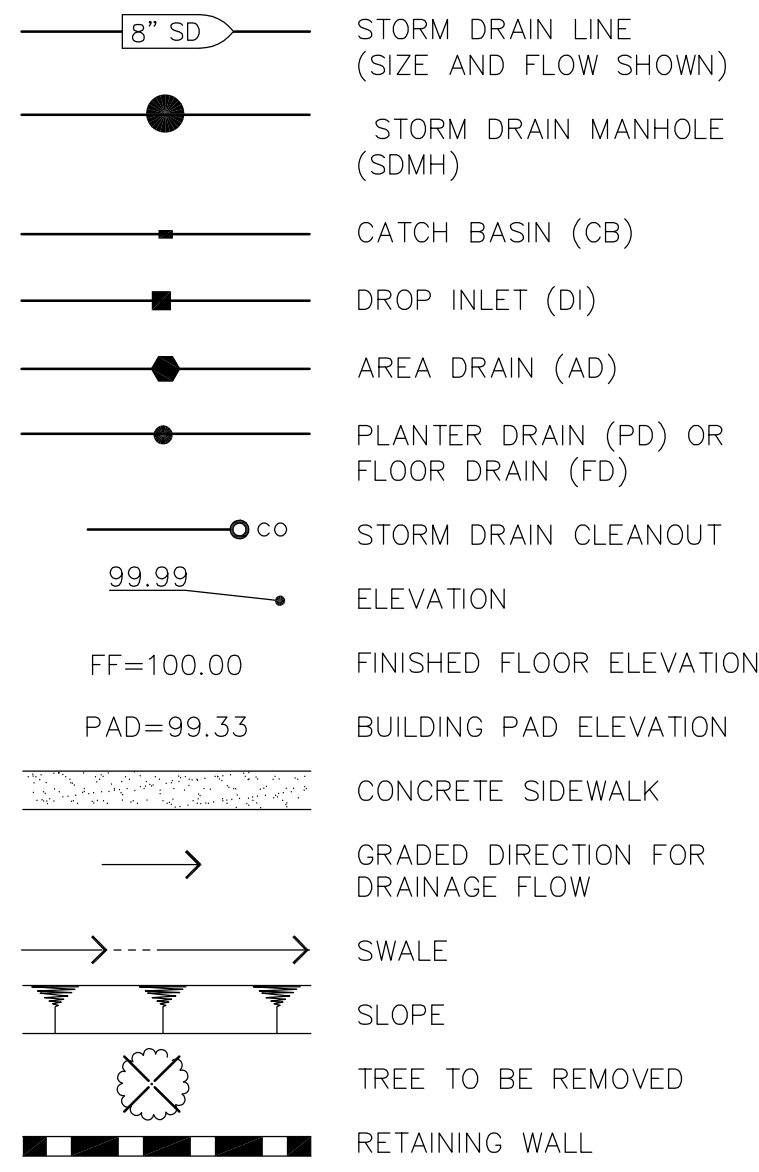
ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.	AB AGGREGATE BASE
AC ASPHALTIC CONCRETE	AD AREA DRAIN
APN ASSESSOR'S PARCEL NUMBER	ARV AIR RELEASE VALVE
ASB AGGREGATE SUB-BASE	BO BLOW-OFF VALVE
BUTTERFLY VALVE	BW BACK OF WALK
C/L CENTERLINE	CB CATCH BASIN
CL CLASS	CMP CORRUGATED METAL PIPE
CATV CABLE TELEVISION	CO CLEANOUT
COMM COMMUNICATION	CONC CONCRETE
CONST. CONSTRUCT	CR CURB RETURN
CS CONCRETE SURFACE	DC DOUBLE CHECK VALVE
DDC DOUBLE DETECTOR CHECK VALVE	DG DECOMPOSED GRANITE
DI DROP INLET	DIA DIAMETER
DIP DUCTILE IRON PIPE	DWG DRAWING
DS DOWNSPOUT	E ELECTRIC
EP EDGE OF PAVEMENT	ESMT EASEMENT
EX EXISTING	FS FIRE SERVICE LINE
FDC FIRE DEPARTMENT CONNECTION	FL FLOWLINE
FM SANITARY SEWER FORCE MAIN	FF FINISHED FLOOR ELEVATION
FH FIRE HYDRANT	G GAS
GR GRATE ELEVATION	GRD GRADE ELEVATION
GV GATE VALVE	H HOSE BIBB
HBD HEADER BOARD	HDPE HIGH DENSITY POLYETHYLENE PIPE
HP HIGH POINT	INV PIPE INVERT ELEVATION
JP JOINT UTILITY POLE	LF LINEAL FEET
LIP LIP OF GUTTER	LT LEFT
MS MOWSTRIP	NTS NOT TO SCALE
OH OVERHEAD	PC PORTLAND CEMENT CONCRETE
PCC PLANTER DRAIN	PIV POST INDICATOR VALVE
P/L PROPERTY LINE	PP POWER POLE
PUE PUBLIC UTILITY EASEMENT	PVC POLYVINYL CHLORIDE
RCP REINFORCED CONCRETE PIPE	R RADIUS
RIM MANHOLE RIM ELEVATION (SOLID COVER)	RP REDUCED PRESSURE BACKFLOW PREVENTER
RW RIGHT OF WAY	SCH SCHEDULE
SD STORM DRAIN	SDMH STORM DRAIN MANHOLE
SDMH SUBGRADE ELEVATION	SS SANITARY SEWER
SS SANITARY SEWER	SSMH SANITARY SEWER MANHOLE
STD STANDARD	S/W SIDEWALK
T TELEPHONE	TC TOP OF CURB
TD TRENCH DRAIN	TDCB TRENCH DRAIN CATCH BASIN
TD TELEPHONE POLE	TRW TOP OF RETAINING WALL
TSW TOP OF SEAT WALL	TW TOP OF WALK ELEVATION
U UTILITY	UG UNDERGROUND
UNLESS OTHERWISE NOTED	VCP VITRIFIED CLAY PIPE
W WATER	W/ WITH
W/O WITHOUT	WV WATER VALVE

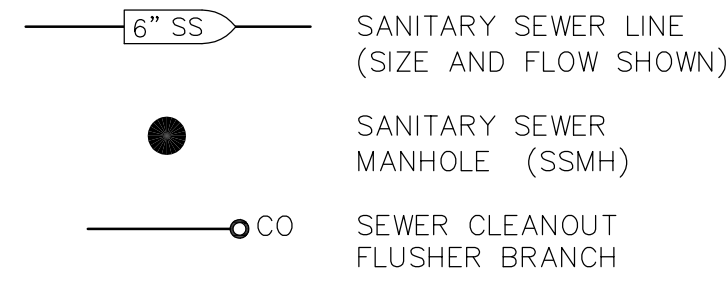
LEGEND

NOTE: NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.

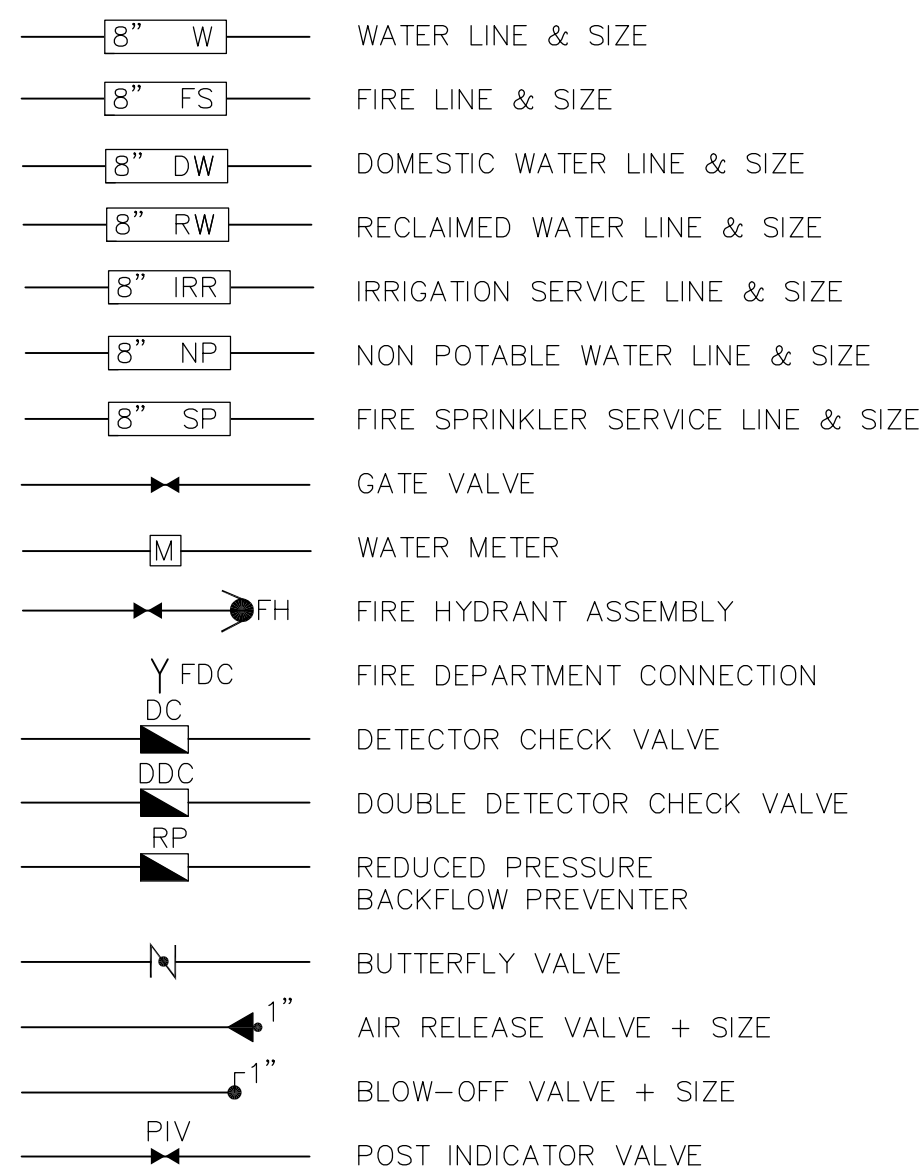
PROPOSED GRADING & DRAINAGE SYMBOLS:



PROPOSED SANITARY SEWER SYMBOLS:



PROPOSED WATER SYMBOLS:



DEMOLITION GENERAL NOTES

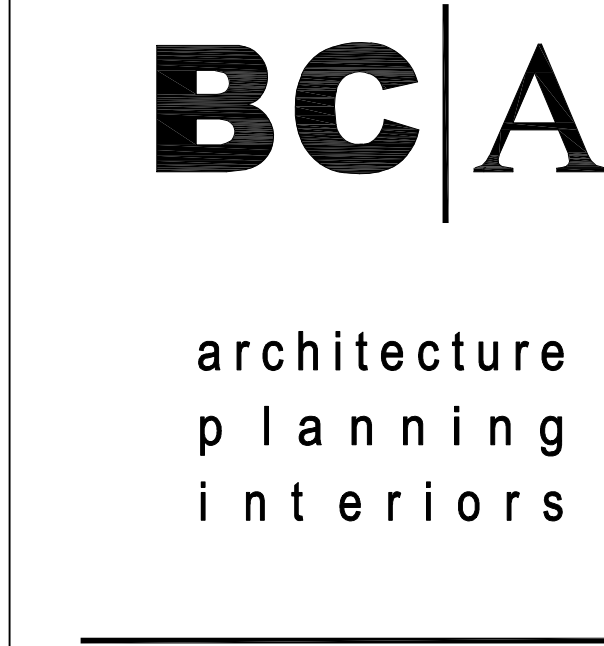
- IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
- NO BURNING OR BLASTING SHALL BE PERMITTED.
- ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
- THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICTS NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE, ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTENT.
- EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.

CONCRETE SAWCUT NOTE

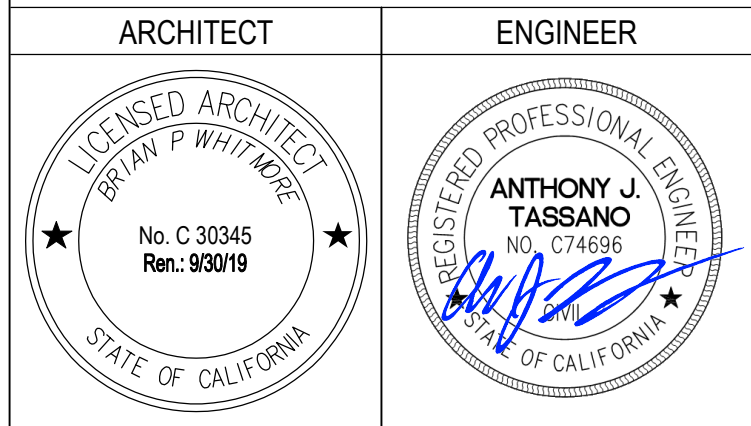
SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND THE NEAREST LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.

UTILITY VERIFICATION NOTE

PRIOR TO THE START OF CONSTRUCTION, LOCATE AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.



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NO.	REMARKS	DATE

DATE	5/20/2019
DSA PLAN CHECK	<input checked="" type="radio"/>
DSA BACK CHECK	<input type="radio"/>
BIDDING	<input type="radio"/>
CONSTRUCTION	<input type="radio"/>

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WESTACRE ROAD  
WEST SACRAMENTO, CA 95691

DSA SUBMITTAL

WESTMORE OAKS  
SCHOOL

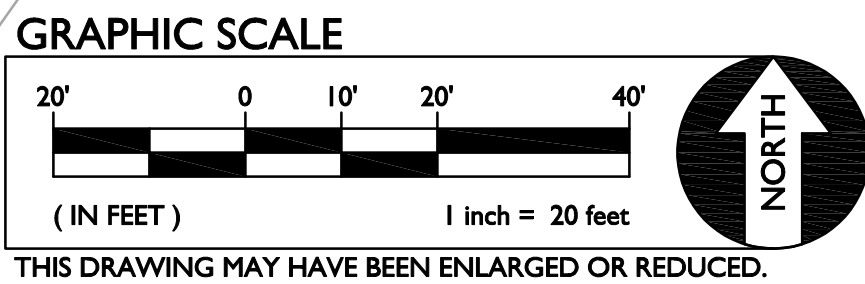
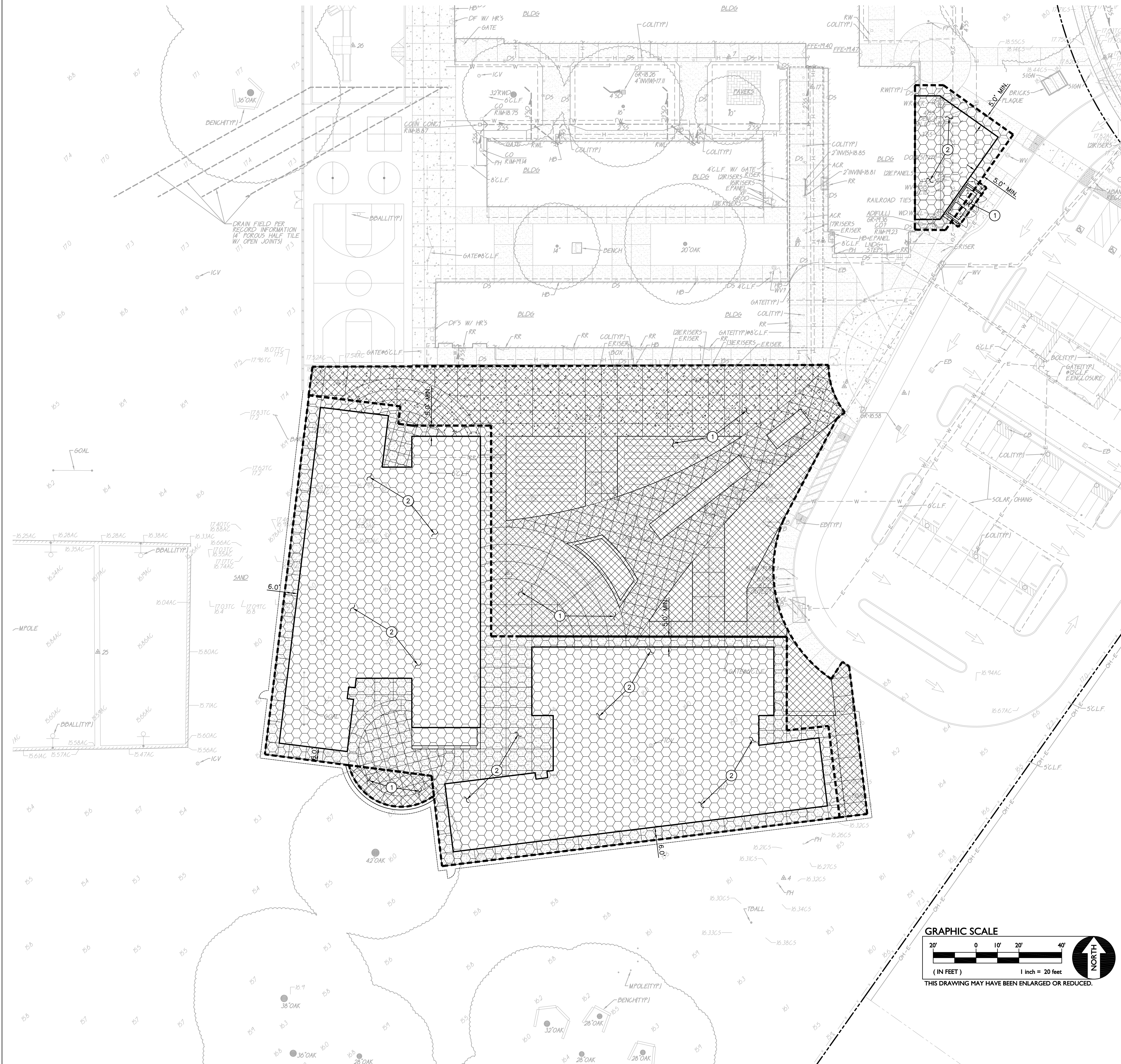
NEW BLDGS F & G AND BLDG M  
ADDITION

1504 FALLBROOK ST.  
WEST SACRAMENTO, CA 95691

CIVIL GENERAL  
NOTES AND  
ABBREVIATIONS

Date	03/28/19	Project Number	19003
Scale	AS NOTED	C0.1	
Drawn	CHECKED		
AT	AT		





ENGINEERED FILL NOTES

ASPHALT AND CONCRETE SUBGRADE PREPARATION

1. FOLLOWING SITE CLEARING, STRIPPING AND DEMOLITION ACTIVITIES:

FOR AREAS TO BE CUT TO ACHIEVE SUBGRADE, EXCAVATE DOWN TO ROUGH SUBGRADE ELEVATION, SCARIFY THE EXISTING SOILS TO A MINIMUM DEPTH OF 12 INCHES AND UNIFORMLY MOISTURE CONDITION TO AT LEAST OPTIMUM MOISTURE CONTENT AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557. THE UPPER 6 INCHES OF PROPOSED SUBGRADE SUPPORTING ASPHALT PAVING SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557.

FOR AREAS TO BE FILLED TO ACHIEVE SUBGRADE, SCARIFY EXPOSED SOILS TO A MINIMUM DEPTH OF 12 INCHES AND UNIFORMLY MOISTURE CONDITION TO AT LEAST OPTIMUM MOISTURE CONTENT AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557. FILL MATERIAL SHALL BE UNIFORMLY MOISTURE CONDITIONED TO AT LEAST THE OPTIMUM MOISTURE CONTENT AND PLACED IN MAXIMUM 8 INCH THICK, LOOSE LIFTS (LAYERS) PRIOR TO COMPACTING. FILL SHALL BE COMPACTED TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557. THE UPPER 6 INCHES OF FILL IN PAVED AREAS SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557.

IMPORTED FILL MATERIAL SHALL BE PREDOMINANTLY GRANULAR, NON-EXPANSIVE, AND FREE OF DELETERIOUS OR ORGANIC MATERIAL. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL IMPORT MATERIAL REQUIREMENTS.

BUILDING PAD SUBGRADE PREPARATION

2. FOLLOWING SITE CLEARING, STRIPPING AND DEMOLITION ACTIVITIES:

OVER-EXCAVATE EXISTING SOILS TO A DEPTH OF AT LEAST 5 FEET BELOW EXISTING GRADE. THE OVER-EXCAVATION SHALL EXTEND AT LEAST 5 FEET BEYOND THE EDGE OF EXTERIOR FOUNDATIONS OF THE BUILDING FOOTPRINT. FOLLOWING OVER-EXCAVATION OPERATIONS, THE EXPOSED SUBGRADE SHALL BE STATICALLY ROLLED TO SMOOTH OUT THE BOTTOM OF THE EXCAVATION.

FOLLOWING ROLLING OPERATIONS, A LAYER OF GEOGRID REINFORCEMENT (TENSAR BX1100, TENSAR TX140, MIRA) 5XT OR APPROVED EQUAL) SHALL BE PLACED DIRECTLY ON THE EXPOSED SUBGRADE. OVERLAP OF THE GEOGRID SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE GEOGRID SHALL BE COVERED WITH AT LEAST A 6 INCH LIFT OF CLASS 2 AGGREGATE BASE COMPACTED TO 90 PERCENT RELATIVE COMPACTION AT NO LESS THAN THE OPTIMUM MOISTURE CONTENT.

THE RESULTING OVER-EXCAVATIONS SHALL BE RESTORED WITH ENGINEERED FILL TO THE PROPOSED SUBGRADE ELEVATION. ON-SITE SOILS ARE CONSIDERED SUITABLE FOR USE IN ENGINEERED FILL CONSTRUCTION, IF THEY DO NOT CONTAIN SIGNIFICANT CONCENTRATIONS OF ORGANIC MATERIALS, DEBRIS OR PARTICLES GREATER THAN 3 INCHES IN MAXIMUM DIMENSION. ENGINEERED FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 6 INCHES IN COMPACTED THICKNESS WITH EACH LIFT BEING UNIFORMLY MOISTURE CONDITIONED TO AT LEAST THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557.

IMPORTED FILL MATERIAL SHALL BE PREDOMINANTLY GRANULAR, NON-EXPANSIVE, AND FREE OF DELETERIOUS OR ORGANIC MATERIAL. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL IMPORT MATERIAL REQUIREMENTS.

ENGINEERED FILL GENERAL NOTES

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE GEOTECHNICAL INVESTIGATION REPORT FOR THIS PROJECT.
- PREPARED BY: WALLACE KUHLE AND ASSOCIATES PROJECT NO.: 12277.01P
- TITLED: GEOTECHNICAL INVESTIGATION
- WESTMORE OAKS MODERNIZATION DATED: APRIL 2, 2019
2. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
3. NO BURNING OR BLASTING SHALL BE PERMITTED, UNLESS APPROVED BY THE ARCHITECT AND CITY/COUNTY ENGINEER, AND GEOTECHNICAL ENGINEER OF RECORD.
4. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
5. ALL FILL MATERIAL, EXISTING ONSITE MATERIAL OR IMPORTED, SHALL BE REVIEWED AND APPROVED BY THE SITE GEOTECHNICAL ENGINEER BEFORE USED AS ENGINEERED FILL.

DSA STAMP

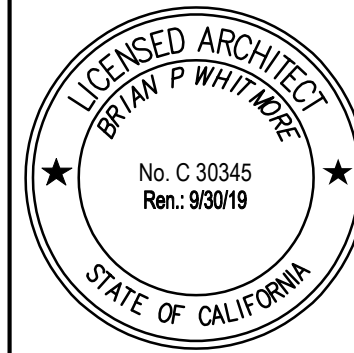
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DATE  
5/20/2019

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☐ BIDDING  
☐ CONSTRUCTION

KEY PLAN

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SCHOOL DISTRICT  
930 WESTACRE ROAD  
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DSA SUBMITTAL

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ENGINEERED  
FILL PLAN

Date

03/28/19

Project Number

19003

Scale

AS NOTED

Drawn

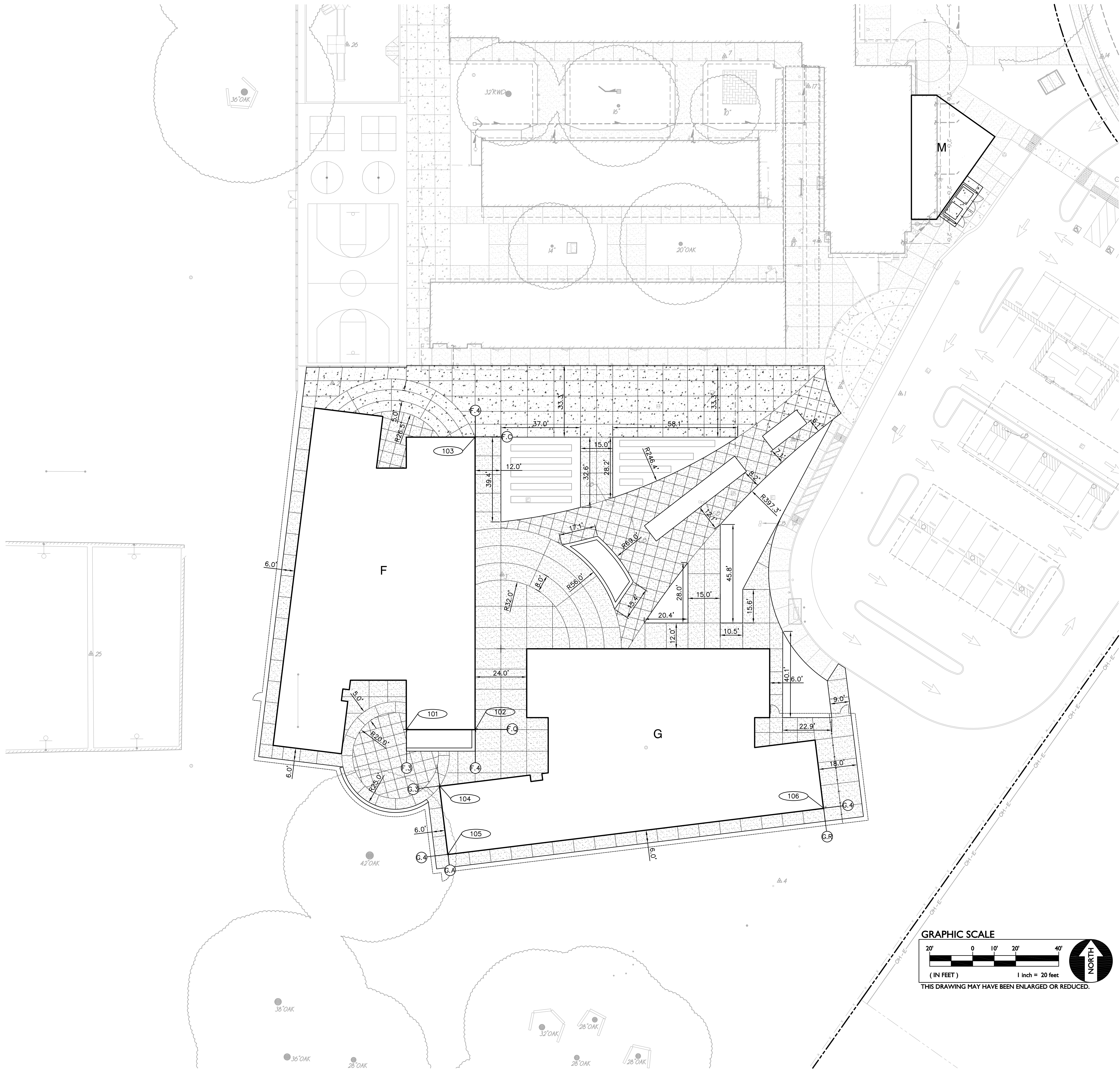
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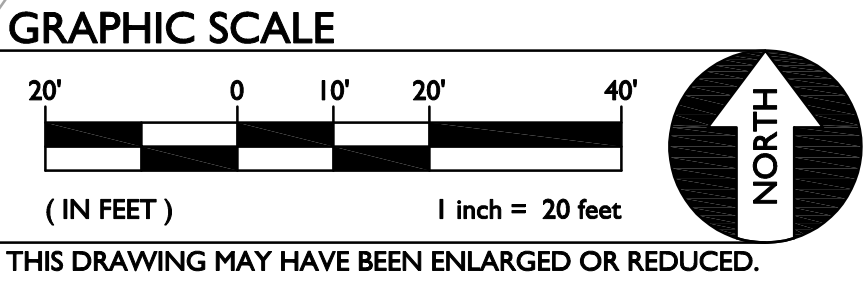


GENERAL COORDINATE NOTES

- COORDINATE POINTS SHOWN FOR BUILDING GRID INTERSECTIONS ON THIS PLAN ARE INTENDED AS AID IN LOCATING THE BUILDING ON SITE. THEY SHALL BE USED IN CONJUNCTION WITH THE BUILDING FOUNDATION PLAN AND ARCHITECTURAL FLOOR PLAN TO LAYOUT THE BUILDING SLAB AND FOOTINGS, ETC. IF A CONFLICT IS FOUND, CONTACT THE ARCHITECT FOR DIRECTION.
- THE LIST OF COORDINATES SHOWN ON THIS SHEET IS CURRENT AS OF THE DATE SHOWN. IF THIS DATE IS OLDER THAN THE PLAN OR REVISION DATE, THE COORDINATES MAY NOT BE CURRENT AND NEW COORDINATES SHOULD BE REQUESTED BY THE CONTRACTOR.
- LIST CURRENT AS OF: 04-03-19

COORDINATE LIST

BUILDING GRID LINE POINTS				
POINT	NORTHING	EASTING	DESCRIPTION	
101	9511.83	10863.92	BLDG. F	GRID LINE F.3-F.0
102	9511.83	10895.92	BLDG. F	GRID LINE F.4-F.0
103	9647.83	10695.92	BLDG. F	GRID LINE F.4-F.C
104	9485.50	10679.29	BLDG. G	GRID LINE G.3-G.A
105	9453.73	10683.19	BLDG. G	GRID LINE G.4-G.A
106	9475.18	10857.88	BLDG. G	GRID LINE G.4-G.R



DSA STAMP

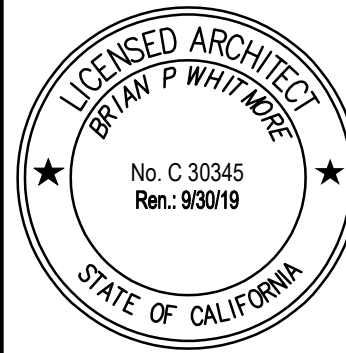
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HORIZONTAL  
CONTROL PLAN

Date

03/28/19

Project Number

19003

Scale

AS NOTED

Drawn

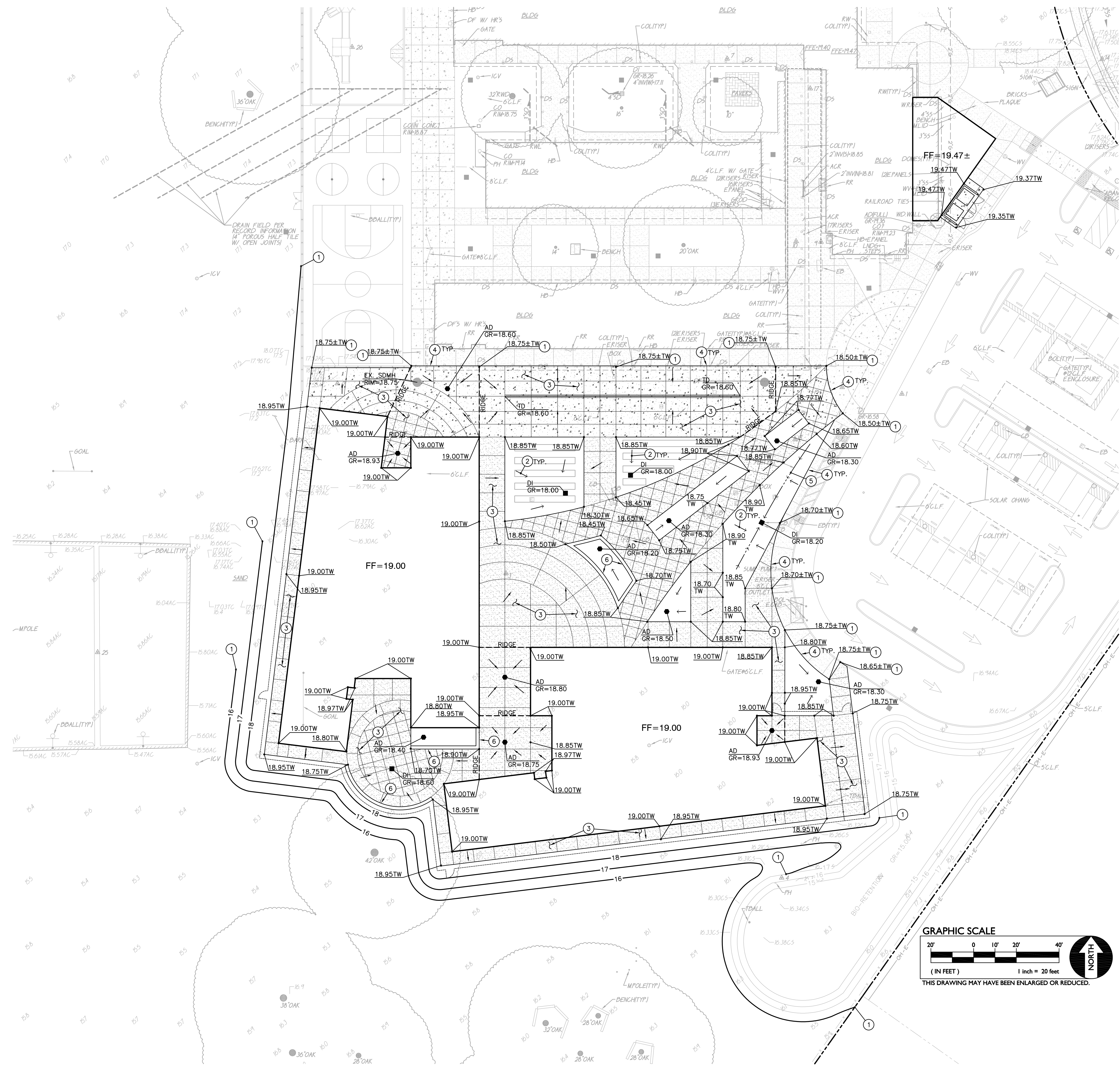
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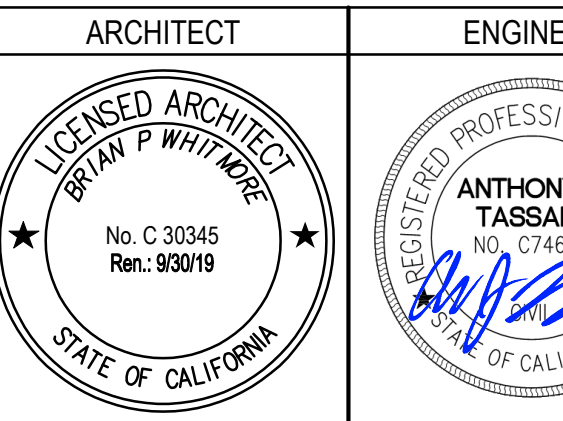


- GRADING NOTES
1. MATCH EXISTING GRADE/ELEVATION.
  2. GRADE UNIFORMLY TO INLET AND/OR SWALE.
  3. CONSTRUCT CONCRETE SIDEWALK PER 1 C7.1
  4. DOWEL INTO EXISTING CONCRETE SIDEWALK PER 1 C7.1
  5. CONSTRUCT SWALE.
  6. CONSTRUCT SEAT WALL. SEE ARCHITECTURAL PLANS FOR DETAIL.

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### GRADING PLAN

Date 03/28/19 Project Number 19003

Scale AS NOTED **C2.1**

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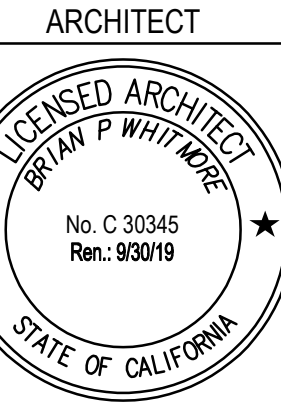


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### DRAINAGE AND SEWER PLAN

Date 03/28/19  
Scale AS NOTED  
Drawn AT  
Checked AT

Project Number 19003

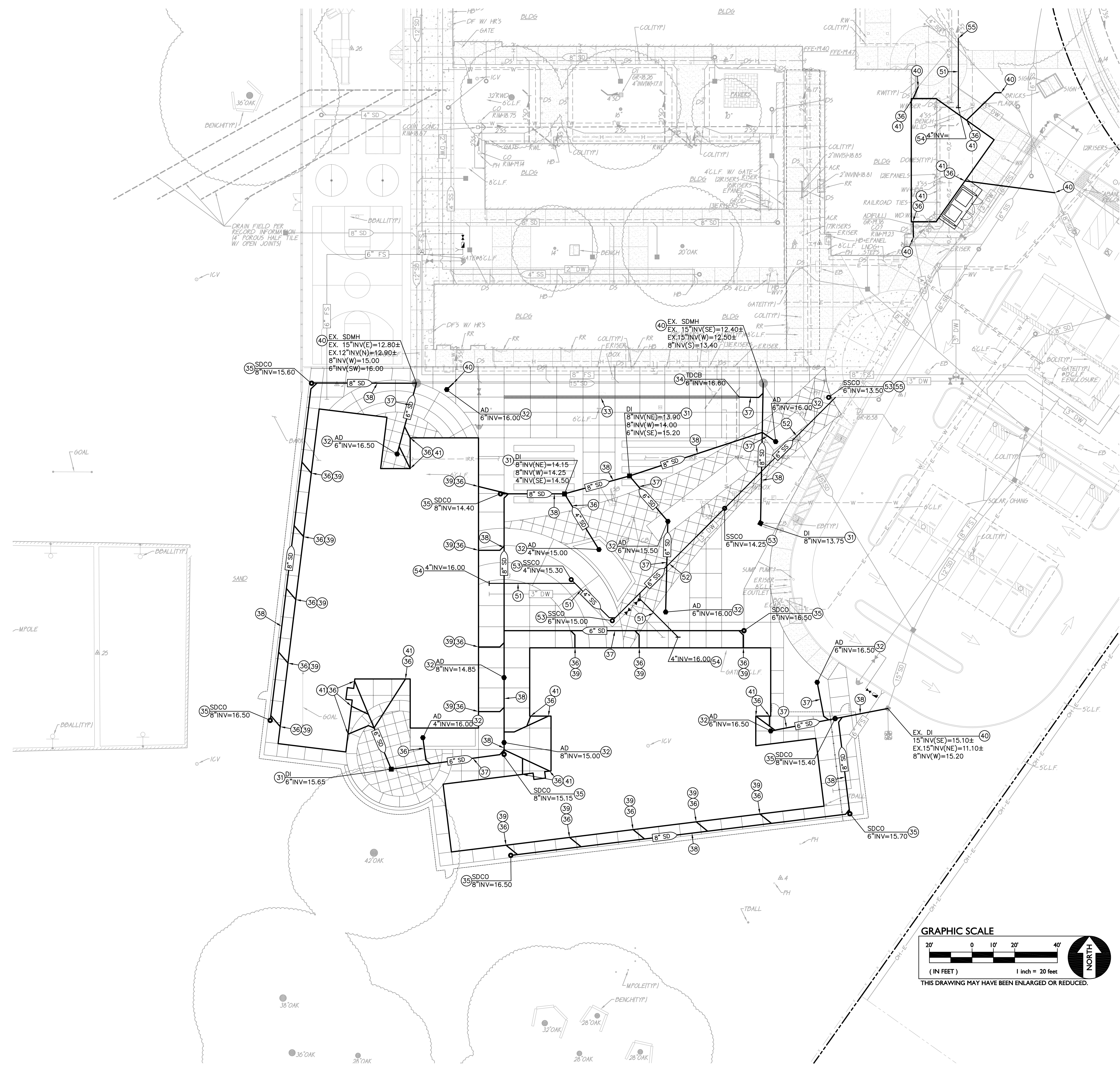
**C3.1**

### ○ DRAINAGE NOTES

- CONSTRUCT DROP INLET PER 2 C7.1
- CONSTRUCT AREA DRAIN PER 3 C7.1
- CONSTRUCT TRENCH DRAIN PER 5 C7.1
- CONSTRUCT TRENCH DRAIN CATCH BASIN PER 4 C7.1
- CONSTRUCT STORM DRAIN CLEANOUT PER 6 C7.1
- PLACE 4" STORM DRAIN PER 6 C7.1
- PLACE 6" STORM DRAIN PER 6 C7.1
- PLACE 8" STORM DRAIN PER 7 C7.1
- PROVIDE DOWNSPOUT CONNECTION PER 7 C7.1
- CONNECT TO EXISTING STORM DRAIN. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
- CONNECT TO BUILDING ROOF DRAIN. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.

### ○ SEWER NOTES

- PLACE 4" SEWER PER 6 C7.1
- PLACE 6" SEWER PER 6 C7.1
- CONSTRUCT SEWER CLEANOUT PER 4 C7.1
- CONNECT TO BUILDING SEWER SERVICE. REFER TO PLUMBING PLANS FOR EXACT DEPTH AND LOCATION. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
- CONNECT TO EXISTING SEWER PIPE. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.





NO.	REMARKS	DATE

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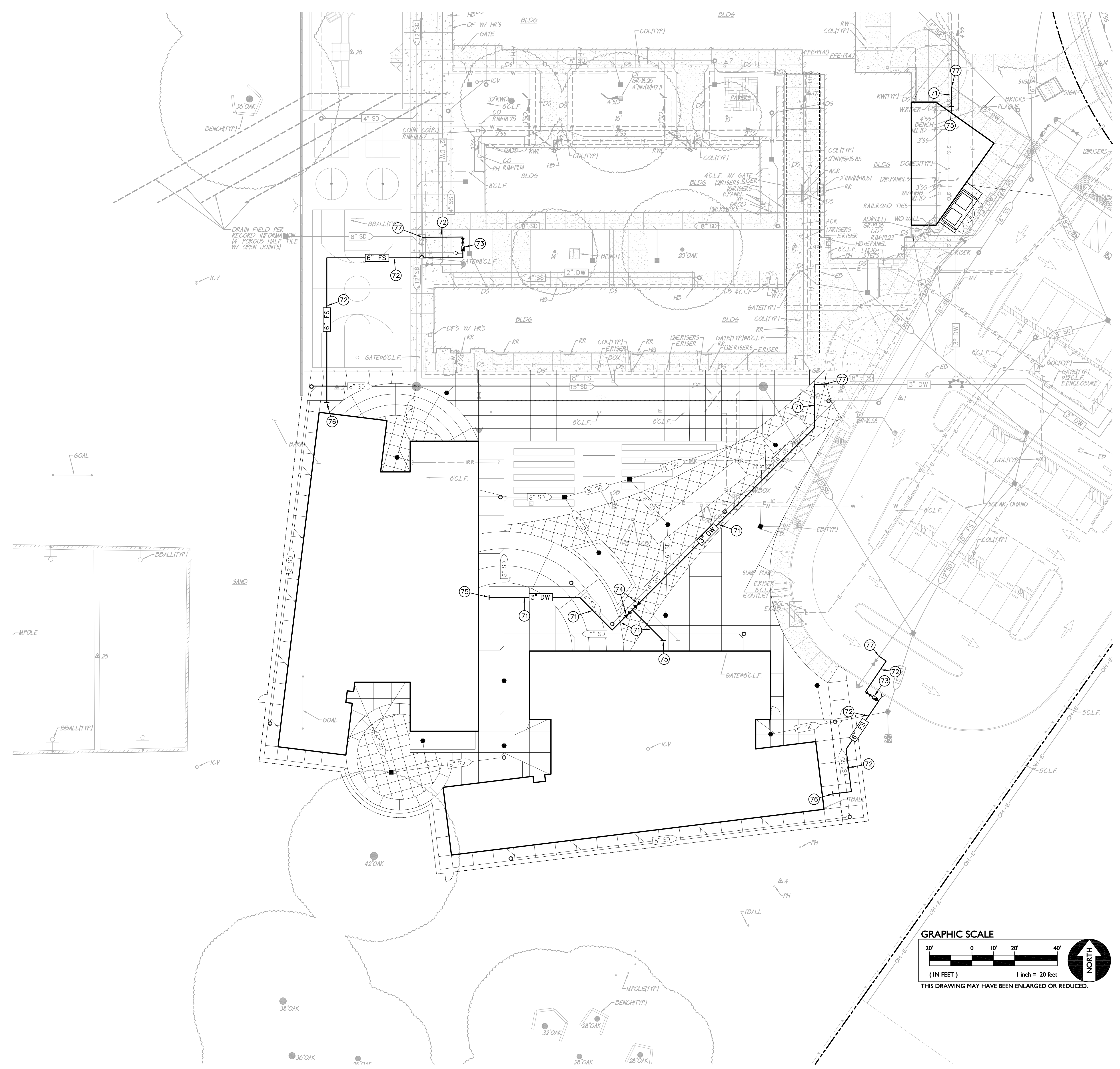
DOMESTIC WATER  
AND FIRE  
PROTECTION PLAN

GENERAL THRUST BLOCK NOTE

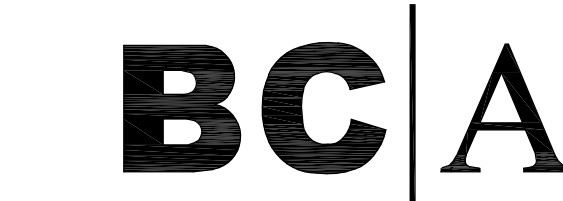
1. ALL JUNCTION AND BENDS ON WATER MAIN PIPES 4" OR LARGER IN DIAMETER, VERTICAL AND HORIZONTAL SHALL BE PROTECTED WITH THRUST BLOCKS PER DETAIL.

WATER NOTES

71. PLACE 3" WATER PER
72. PLACE 6" WATER PER
73. CONSTRUCT FIRE DEPARTMENT CONNECTION, POST INDICATOR VALVE WITH TAMPER SWITCH AND CHECK VALVE. COORDINATE TAMPER SWITCH CONNECTION TO FIRE ALARM WITH ELECTRICAL PLANS.
74. PLACE GATE VALVE AND VALVE BOX. SIZE TO MATCH LINE SIZE.
75. CONNECT TO BUILDING DOMESTIC WATER SERVICE. REFER TO PLUMBING PLANS FOR EXACT DEPTH AND LOCATION. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
76. CONNECT TO BUILDING FIRE SPRINKLER SERVICE. REFER TO FIRE PROTECTION PLANS FOR EXACT DEPTH AND LOCATION. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
77. CONNECT TO EXISTING WATER LINE. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.



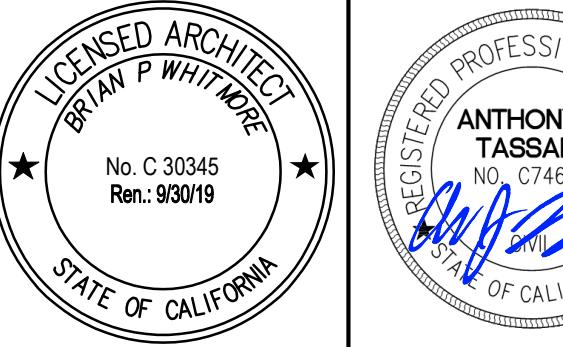




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### KEY PLAN

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### PAVING PLAN

Date 03/28/19 Project Number 19003

Scale AS NOTED

Drawn AT


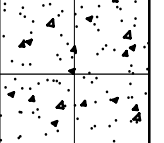
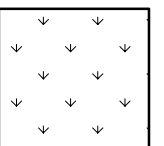
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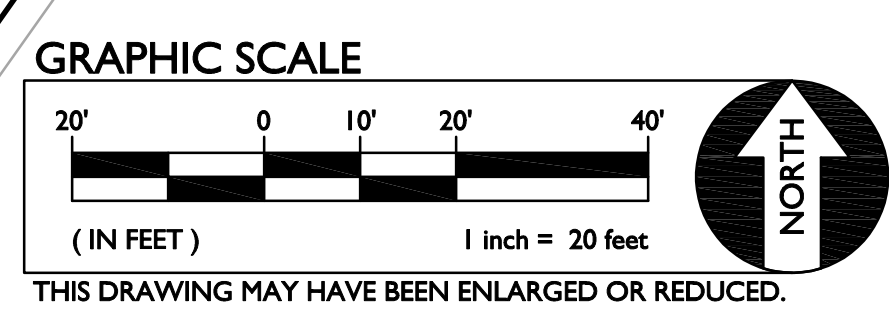
C5.1

### PAVING GENERAL NOTES:

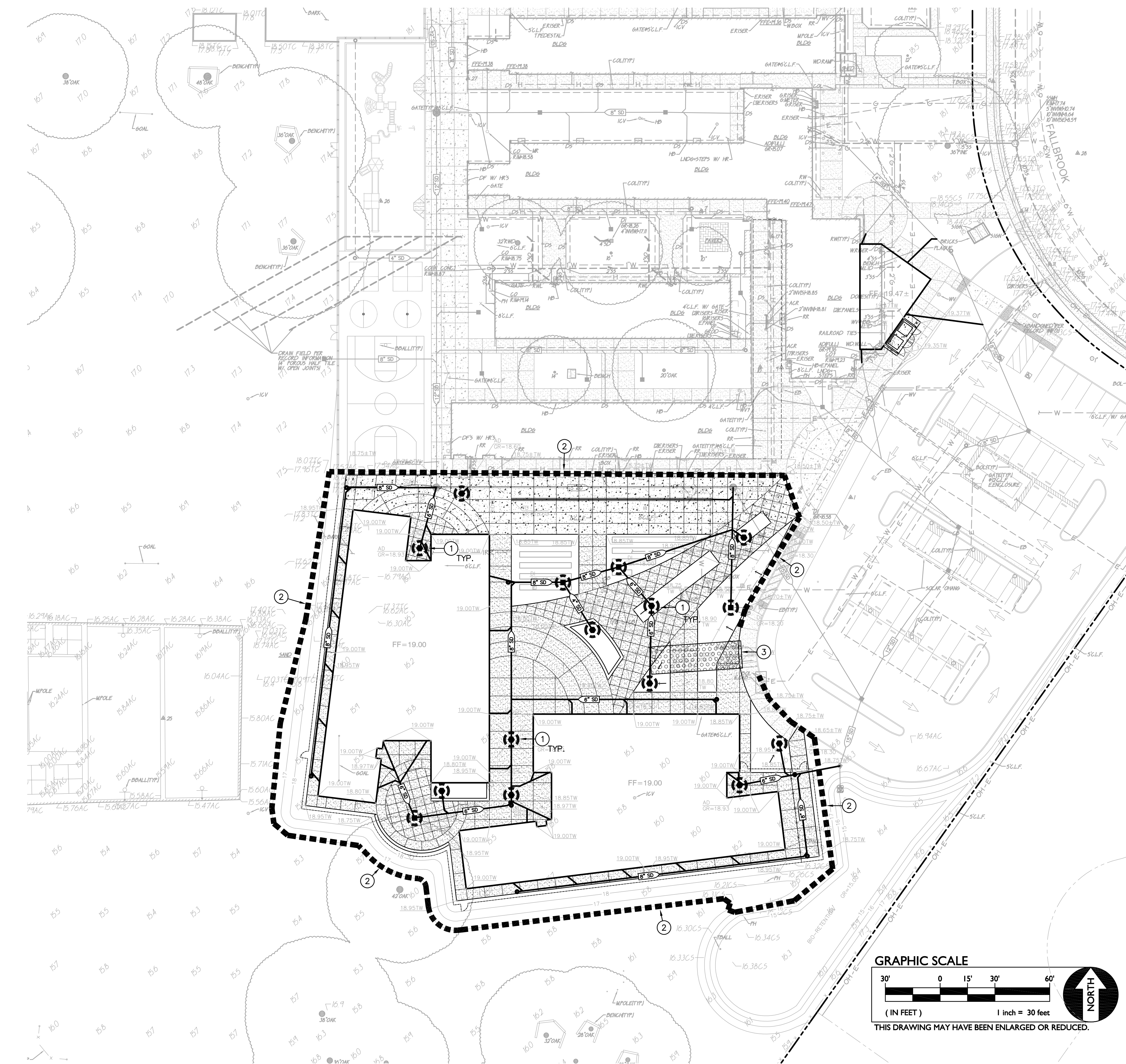
- ASPHALT MIX SHALL MEET CALTRANS SPECIFICATIONS FOR TYPE B ASPHALTIC CONCRETE. REFERENCE CALTRANS S AND PROJECT SPECIFICATIONS.
- AGGREGATE BASE SHALL MEET CALTRANS SPECIFICATIONS FOR CLASS II AGGREGATE BASE.
- ALL AGGREGATE BASE SHALL BE MOISTURE CONDITIONED TO, OR SLIGHTLY ABOVE, OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% RELATIVE COMPACTION.
- RECYCLED ASPHALT MAY BE USED AS CONCRETE AND ASPHALT BASE MATERIAL PROVIDED IT MEETS CITY OF SACRAMENTO SPECIFICATIONS FOR CLASS II AB.
- PAVEMENT SUBGRADE PREPARATION, I.E. SCARIFICATION, MOISTURE CONDITIONING, AND COMPACTION SHALL BE PERFORMED AFTER:  
A. POT HOLING ALL EXISTING UTILITIES.  
B. THE INSTALLATION OF UNDERGROUND UTILITIES AND TRENCHES BACKFILLED IN ACCORDANCE WITH THESE PLANS.
- ALL AREAS DISTURBED BY GRADING, DEMOLITION, OR CONSTRUCTION ACCESS, WHICH ARE NOT SURFACED BY THIS SET OF PLANS, OR LANDSCAPE PLANS, SHALL BE RESTORED.
- REFER TO GRADING PLANS FOR CURBS, CURB GUTTERS, VALLEY GUTTERS, AND OTHER CONCRETE STRUCTURES AND PAVING FEATURES NOT SPECIFICALLY NOTED ON THIS PLAN.
- ADJUST TO FINISH GRADE ALL BOXES, FRAMES, COVERS SLEEVES, POST HOLES, GRATES, ETC. FOUND IN NEW ASPHALT OR CONCRETE PAVING AREAS, WHICH ARE NOT NOTED FOR REMOVAL. CLEAN/OR REPLACE AS NECESSARY TO ENSURE PROPER SEATING.

### PAVING LEGEND

-  **1 TYPE 1 PAVING**  
PLACE 5" PCC WITH #4 REBAR @ 18" O.C.E.W. OVER 4" CLASS II AB ON SUBGRADE COMPACTED PER SPECIFICATIONS.
-  **2 TYPE 2 PAVING**  
PLACE 6" PCC WITH #4 REBAR @ 18" O.C.E.W. OVER 6" CLASS II AB ON SUBGRADE COMPACTED PER SPECIFICATIONS.
-  **3 TYPE 3**  
PLACE 12" NATIVE TOPSOIL, TO ACHIEVE FINISH GRADES AS SHOWN ON GRADING PLAN FOR ALL AREAS TO RECEIVE PLANTING. SUBGRADE TO BE GRADED TO PROVIDE SLOPE AND SMOOTH LINES CONSISTENT WITH FINISH GRADES TO ALLOW FOR UNIFORM THICKNESS OF TOP SOIL.







PHASE OF CONSTRUCTION	EROSION AND SEDIMENT CONTROL MEASURES																
	WET SEASON					WET & DRY SEASON											
	HYDRO SEEDING	STRAW MULCHING TACTIFIER	SOIL BINDERS	PRESERVATION OF EXISTING VEGETATION	BLANKETS MATS & GEOTEXTILES	FIBER ROLLS	DUST CONTROL	OUTLET PROTECTION	SILT FENCING	SAND/GRAVEL BAG BARRIERS	STORM DRAIN INLET PROTECTION	SEDIMENT BASIN	SEDIMENT TRAP	DEWATERING	STABILIZED CONSTRUCTION ENTRANCE	MATERIAL & WASTE DISPOSAL LOCATION	CONCRETE WASHOUT
PRE-GRADING	X	X		X			X		N/A			N/A	N/A				
CUT-FILL ACTIVITIES	X	X	X	X	X	X	X			X	X		X	X	X	X	
UNDERGROUND WORK	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X
STORM IMPROVEMENTS	X		X	X	X	X	X	X		X	X		X	X	X	X	X
CURB AND GUTTER	N/A		X	X	X	X	X	X		X	X			X	X	X	X
STREET IMPROVEMENTS				X	X	X	X	X		X	X			X	X	X	X
PAVE OUT				X	X		X	X		X	X			X		X	X
POST CONSTRUCTION			X	X	X												
MAINTENANCE SCHEDULE																	
DAILY*																	
WEEKLY*		X	X		X	X		X		X	X				X	X	X
MONTHLY*																	
BEFORE RAIN		X	X		X	X		X		X	X						
DURING RAIN		X	X		X	X		X		X	X						
AFTER RAIN		X	X		X	X		X		X	X						
AS NEEDED	↓			X			X		↓			↓	↓	X			

\* = WHEN RAIN EVENT INSPECTIONS OCCURS, THEY MAY QUALIFY AS A DAILY, WEEKLY, OR MONTHLY INSPECTION AS APPLIES.

ANY CHANGES MADE TO THE SWPPP IN THE FIELD MUST BE SHOWN ON THE MAP. UPDATE MAP TO REFLECT CHANGES.

MAINTENANCE/REPAIRS OF BMP FAILURE SHALL BEGIN WITHIN 72 HOURS OF IDENTIFICATION AND CHANGES SHALL BE COMPLETED PRIOR TO THE NEXT RAIN EVENT.

STORM DRAINAGE OUTFALL BMP'S REFER TO PROTECT CONSTRUCTION PLAN DETAILS FOR SPECIFIC POST CONSTRUCTION BMP MEASURES AT OUTFALL STRUCTURES.

SEDIMENT AND EROSION CONTROL MEASURES ON SWPPP MAP ARE MINIMUM BMP'S RECOMMENDED FOR COMPLIANCE. CONSTRUCTION SITE MUST BE MONITORED AND BMP'S SHALL BE MODIFIED DEPENDING ON CONSTRUCTION SCHEDULE AND RAIN EVENTS.

#### LEGEND



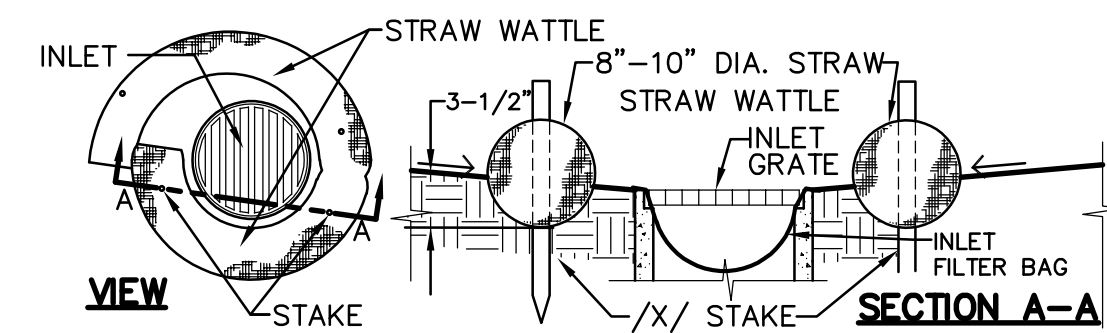
#### EROSION CONTROL NOTES

NOTE: EXACT LOCATION WILL BE COORDINATED BY CONTRACTOR AND PROJECT QSP.

- CONTRACTOR SHALL PROVIDE STRAW WATTLE BARRIER AT ALL INLETS (NEW AND/OR EXIST.) IN AREAS OF ON-SITE WORK PER THE DETAIL PROVIDED. IN ADDITION TO WATTLE, PROVIDE FILTER BAG AT EACH INLET. STRAW WATTLES NOT REQUIRED AT INLETS IN PAVED AREAS, ONLY FILTER BAG.
- CONTRACTOR SHALL PROVIDE STRAW WATTLES AT PERIMETER OF SITE PER DETAIL.
- CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION SITE ACCESS PER DETAIL.
- CONTRACTOR SHALL CONSTRUCT AND UTILIZE A STAGING AREA IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS IN SECTION 4 OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION BMP HANDBOOK. SIZE AS NEEDED. AFTER CONSTRUCTION COMPLETE, RETURN AREA TO NATURAL CONDITION.

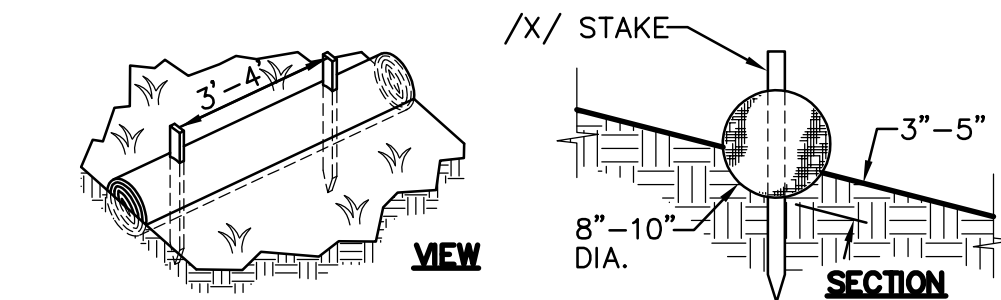
#### EROSION AND SEDIMENT CONTROL GENERAL NOTES

- IF CERTAIN SOIL TYPES (E.G. COLLOIDAL SOILS) ARE DETECTED, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL TREATMENT MEASURES PRIOR TO DISCHARGE.
- CONTRACTOR IS RESPONSIBLE FOR THE DEWATERING AND REMOVAL OF ALL TEMPORARY EROSION CONTROL DEVICES JUST PRIOR TO THE COMMENCING OF THE FINAL GRADING AND PAVING OPERATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE SITE TO MINIMIZE DUST CREATED DURING CONSTRUCTION.
- PRIOR TO PLACEMENT OF HYDRO SEEDING, REMOVE TEMPORARY EROSION CONTROL MEASURES (STRAW WATTLE FENCE AND TRACKED LOOSE STRAW).
- CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR COMPLIANCE WITH STATE WATER RESOURCES CONTROL BOARD REQUIREMENTS.
- ALL MATERIALS STORED ON-SITE SHALL HAVE PROPER ENCLOSURES AND/OR COVERINGS.
- CONTRACTOR SHALL MAINTAIN ALL WATTLE OR SILT FENCES AND OTHER STORM WATER POLLUTION PREVENTION DEVICES THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL INSPECT ALL EROSION CONTROL DEVICES WEEKLY AS WELL AS BEFORE, DURING, AND AFTER A STORM EVENT. CONTRACTOR SHALL REMOVE ALL EROSION CONTROL AND POLLUTION PREVENTION DEVICES AT THE END OF CONSTRUCTION AS REQUIRED. REFER TO SPECIFICATIONS AND ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN CONSTRUCTION FENCING THROUGHOUT THE PROJECT. THIS FENCING SHALL DETER PEDESTRIANS AND NON-CONSTRUCTION RELATED PERSONNEL FROM ENTERING THE CONSTRUCTION SITE AREA TO THE GREATEST POSSIBLE EXTENT. THE CONTRACTOR SHALL COORDINATE THIS FENCING LAYOUT WITH SCHOOL DISTRICT PERSONNEL PRIOR TO ANY FENCING PLACEMENT SO AS TO NOT SIGNIFICANTLY INTERFERE WITH SCHOOL OPERATION.
- CONTRACTOR SHALL ADEQUATELY PREVENT EXCESSIVE AMOUNTS OF MUD, SAND, DIRT, AND OTHER DEBRIS FROM BEING TRACKED ONTO THE STREET FROM CONSTRUCTION VEHICLE MOVEMENT. PROVIDE WASHING FACILITIES AT CONSTRUCTION ENTRANCE IF NECESSARY.
- CONTRACTOR SHALL ADEQUATELY PREVENT EXCESSIVE AMOUNTS OF MUD, SAND, DIRT, AND OTHER DEBRIS FROM BEING TRACKED ONTO THE STREET FROM CONSTRUCTION VEHICLE MOVEMENT. PROVIDE WASHING FACILITIES AT CONSTRUCTION ENTRANCE IF NECESSARY.



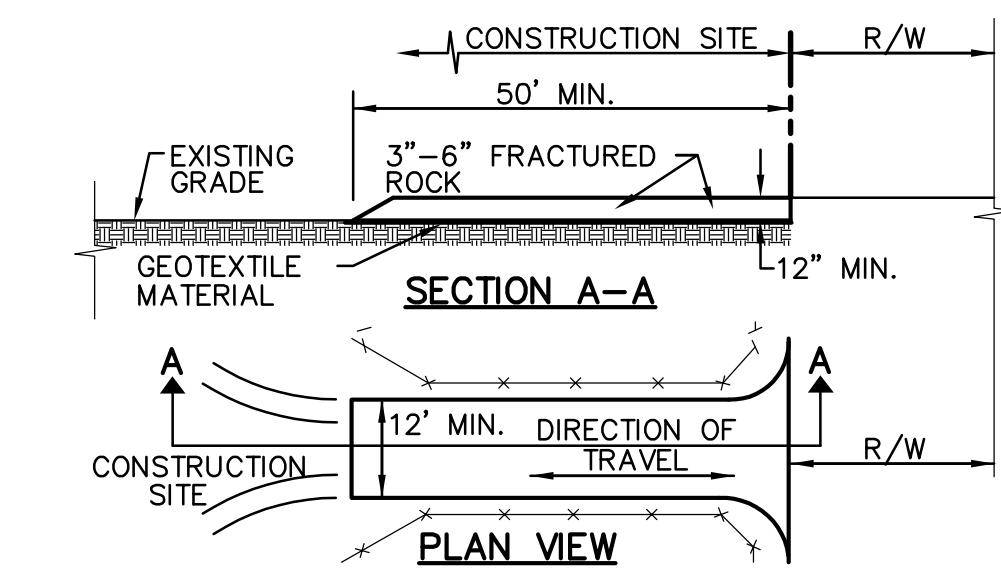
NOTE: STRAW WATTLE INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE WATTLE IN A TRENCH, 3-1/2\"/>

#### 1 C6.1 STRAW WATTLE INLET FILTER



NOTE: STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3-1/2\"/>

#### 2 C6.1 STRAW ROLLS



- NOTES:
- STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 3\"/>
  - LENGTH OF SITE ACCESS SHALL BE A MINIMUM LENGTH OF FIFTY FEET. WIDTH SHALL BE A MINIMUM WIDTH OF TWELVE FEET OR AS NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS.
  - THE SITE ACCESS SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING.

#### 3 C6.1 STABILIZED CONSTRUCTION SITE ACCESS

#### MONITORING SCHEDULE

- WITHIN 2 BUSINESS DAYS (48 HOURS) PRIOR TO EACH QUALIFYING RAIN EVENT.
- EVERY 24 HOURS DURING A QUALIFYING RAIN EVENT.
- WITHIN 2 BUSINESS DAYS (48 HOURS) AFTER EACH QUALIFYING RAIN EVENT RESULTING IN 0.50 INCHES OF RAIN OR MORE.
- RECORD THE TIME, DATE AND RAIN GAUGE READING OF ALL QUALIFYING RAIN EVENTS.
- QUARTERLY NON-STORM WATER DISCHARGE INSPECTIONS.
- WEEKLY INSPECTIONS.

#### RISK LEVEL 2

#### PROJECT INFORMATION

PARCEL AREA — ACRES  
TOTAL DISTURBED AREA — ACRES  
S.W.P.P. REQUIRED? YES

DSA STAMP

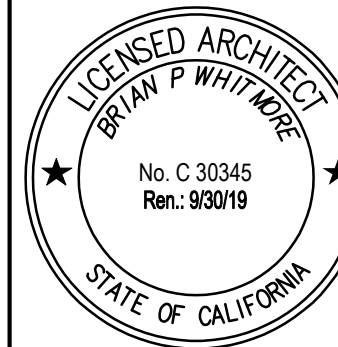
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ARCHITECT

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NO.	REMARKS	DATE

● DSA PLAN CHECK	DATE
○ DSA BACK CHECK	5/20/2019
○ BIDDING	
○ CONSTRUCTION	

#### KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WESTACRE ROAD  
WEST SACRAMENTO, CA 95691

#### DSA SUBMITTAL

WESTMORE OAKS  
SCHOOL

NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK ST.  
WEST SACRAMENTO, CA 95691

#### EROSION CONTROL PLAN

Date

03/28/19

Scale

AS NOTED

Drawn

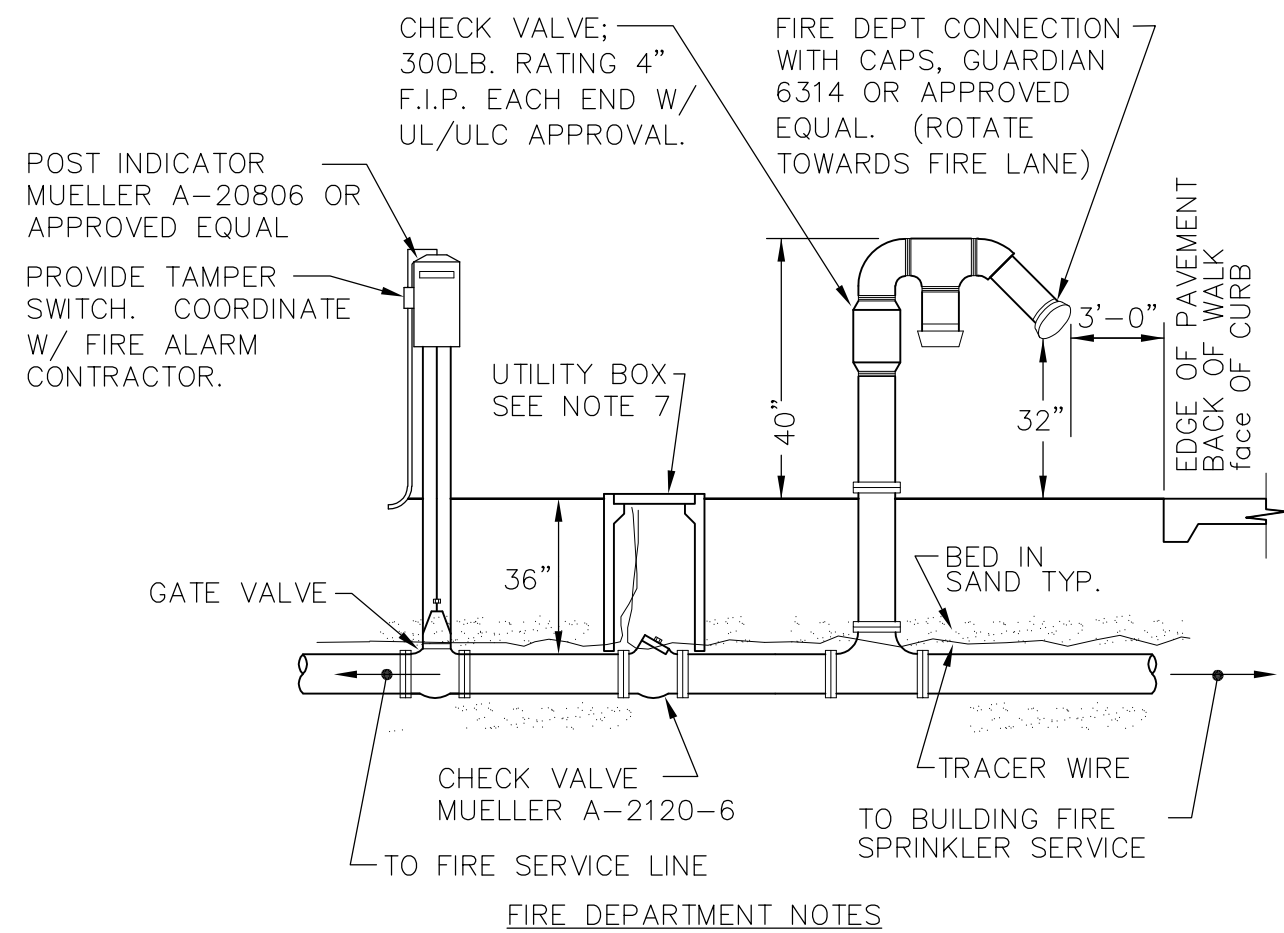
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Project Number

19003

C6.1

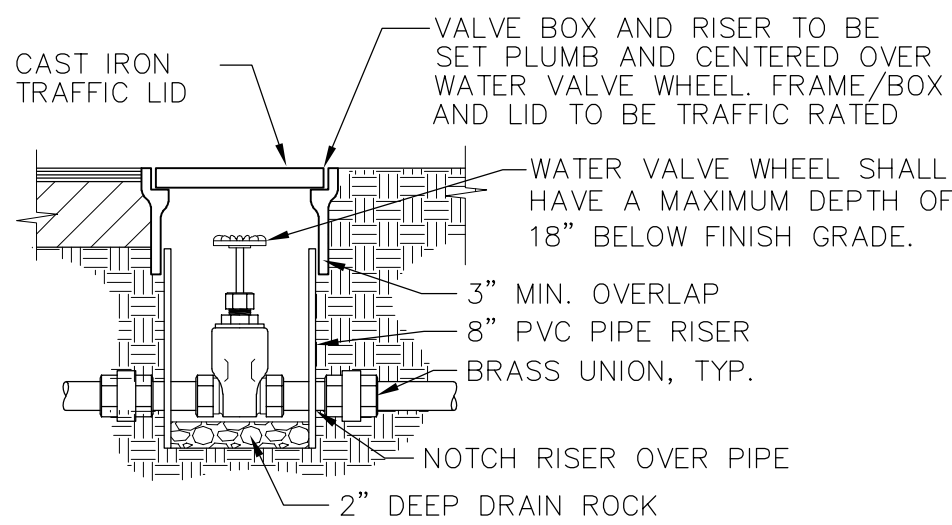




1. THE INSTALLATION OF ALL ON-SITE FIRE PROTECTION SYSTEMS SHALL BE IN ACCORDANCE WITH N.F.P.A. 24 AND FIRE DEPARTMENT STANDARDS.
2. ALL ON-SITE FIRE PROTECTION SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF N.F.P.A. 24 AND SHALL BE WITNESSED BY THE FIRE DEPARTMENT. UNDERGROUND PIPING SHALL BE FLUSHED PER NFPA13 AND RISER STUB-UP IMMEDIATELY CAPPED.
3. THE INSTALLING CONTRACTOR, OR SUBCONTRACTOR, FOR ALL ON-SITE FIRE PROTECTION SYSTEMS SHALL NOTIFY THE FIRE DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF REQUESTING A DATE AND TIME FOR INSPECTIONS.
4. IF PLASTIC PIPE IS INSTALLED FOR FIRE PROTECTION SYSTEMS, THE PIPE SHALL BE C-900 CLASS 200.
5. AFTER INSTALLATION, RODS, NUTS, BOLTS, WASHERS, CLAMPS, AND OTHER RESTRAINING DEVICES, EXCEPT THRUST BLOCKS, USED ON ON-SITE FIRE PROTECTION SYSTEMS SHALL BE CLEANED AND THOROUGHLY COATED WITH A BITUMINOUS OR OTHER ACCEPTABLE CORROSION-RETARDING MATERIAL.
6. ALL PIPES AND FITTINGS SHALL BE WRAPPED PER N.F.P.A. 24 AND BEDDED IN SAND.
7. PROVIDE UTILITY BOX. FOR 4" - 6" VALVE CHRISTY N48, FOR 8"+ CHRISTY N52 OR APPROVED EQUAL. PROVIDE 12" MIN CHAIN WELDED TO LIDS AND BOLTED TO INSIDE OF BOX. LID SHALL BE TRAFFIC RATED IF WITHIN A TRAFFIC AREA.

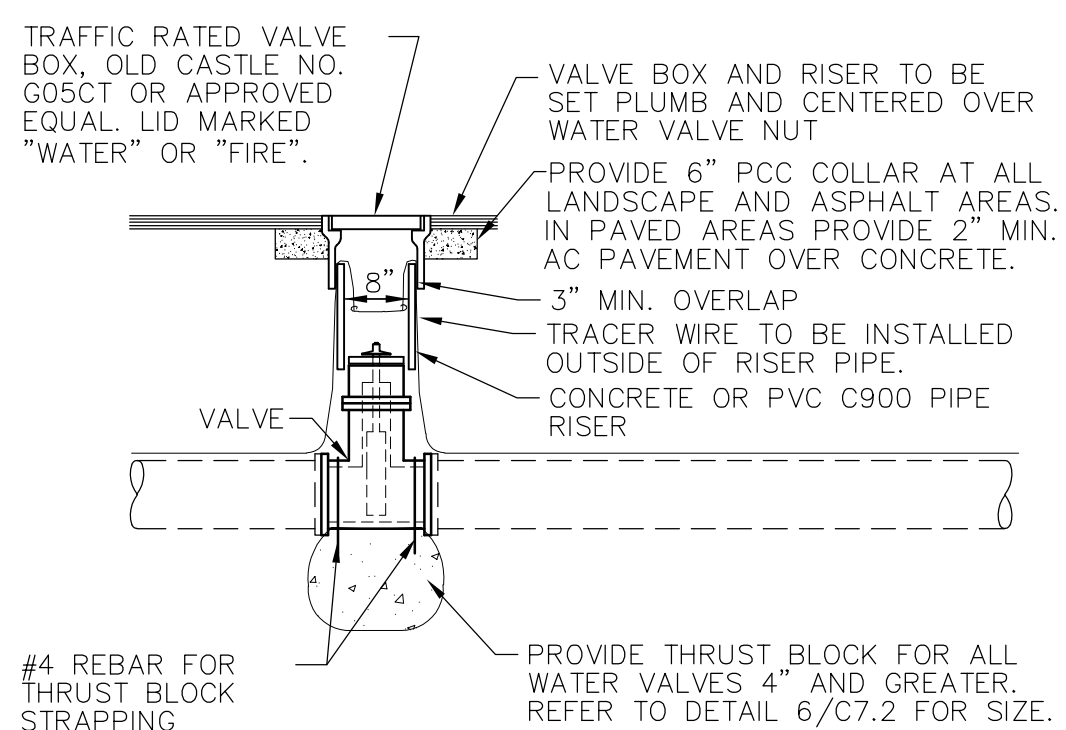
## 10 FIRE DEPARTMENT CONNECTION ASSEMBLY

NO SCALE



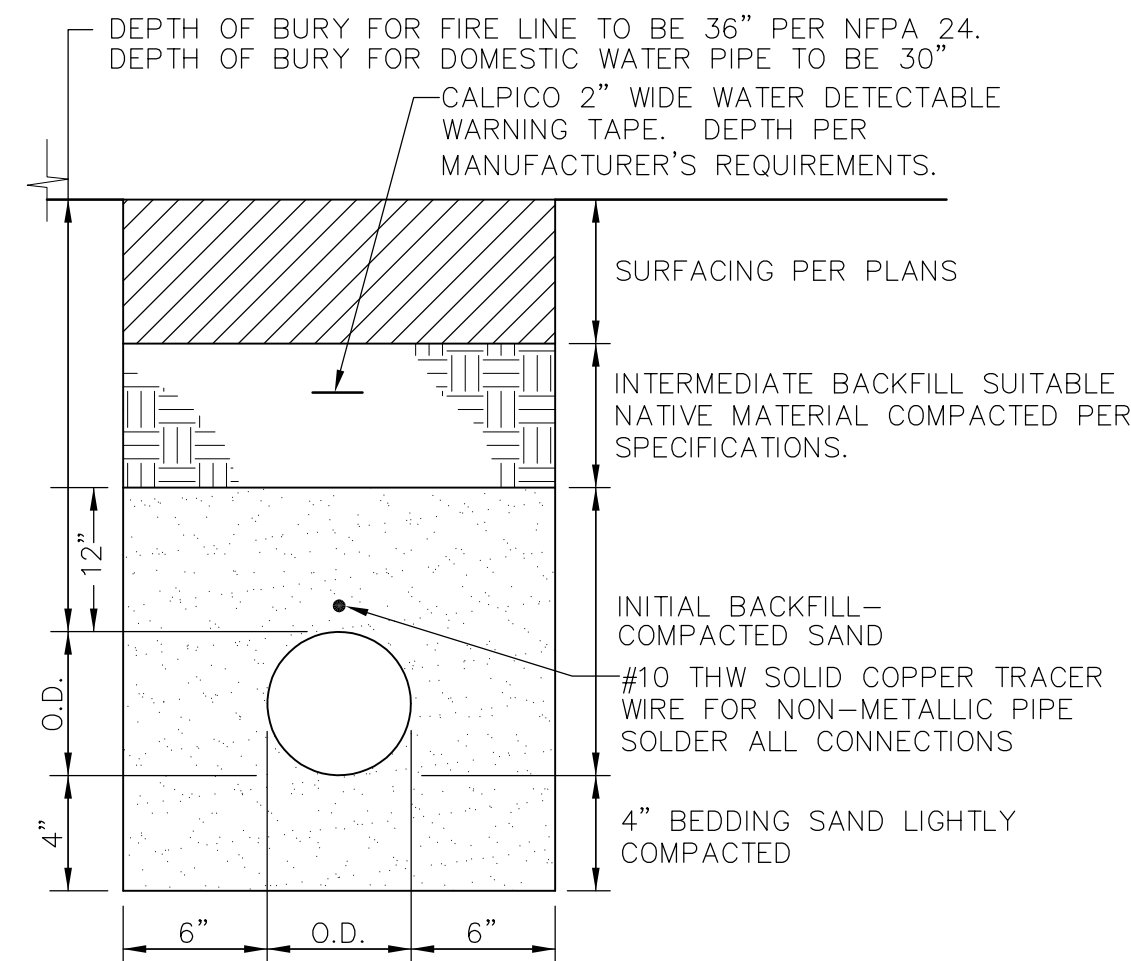
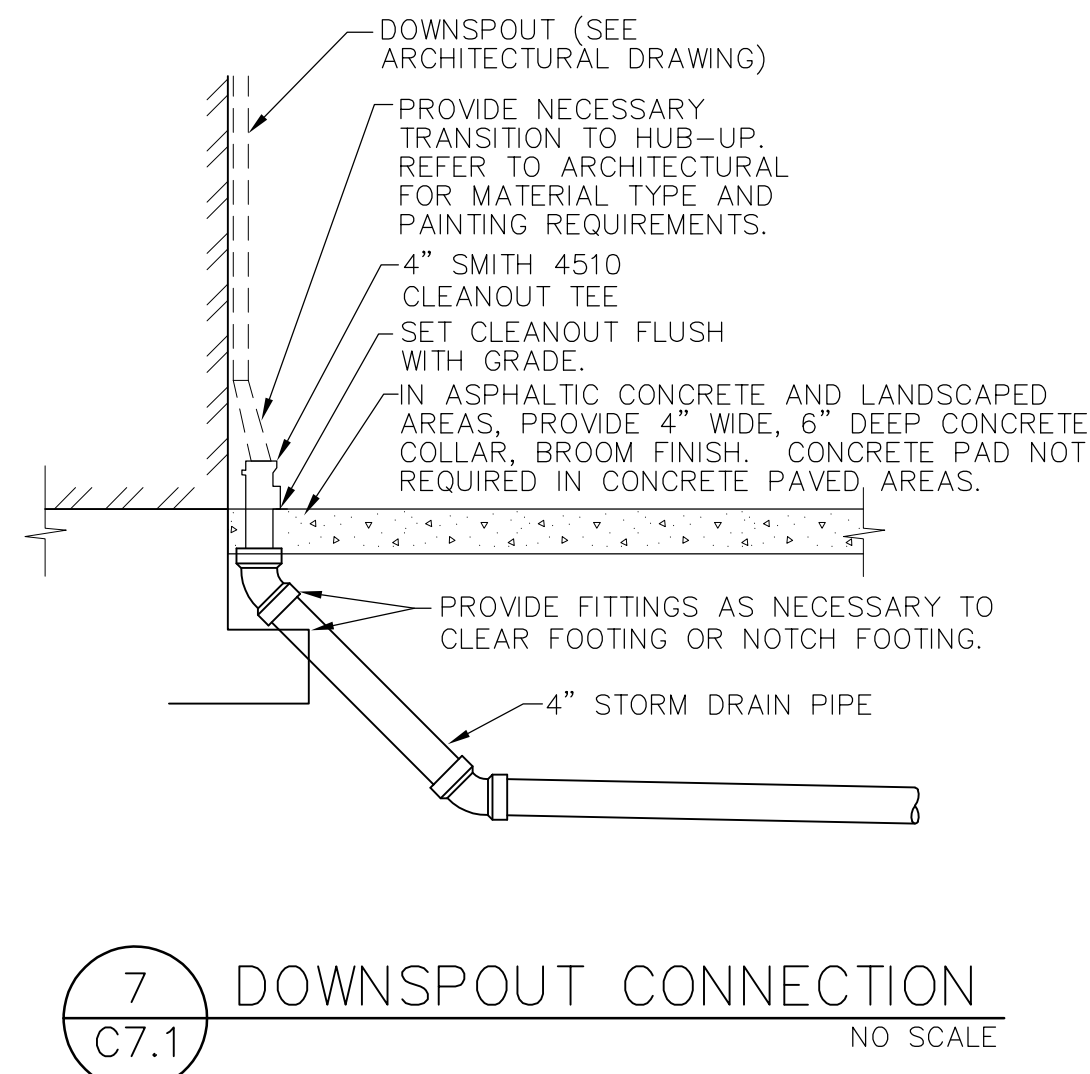
## WATER VALVE 1/2"-3"

NO SCALE



## 11 WATER VALVE

NO SCALE



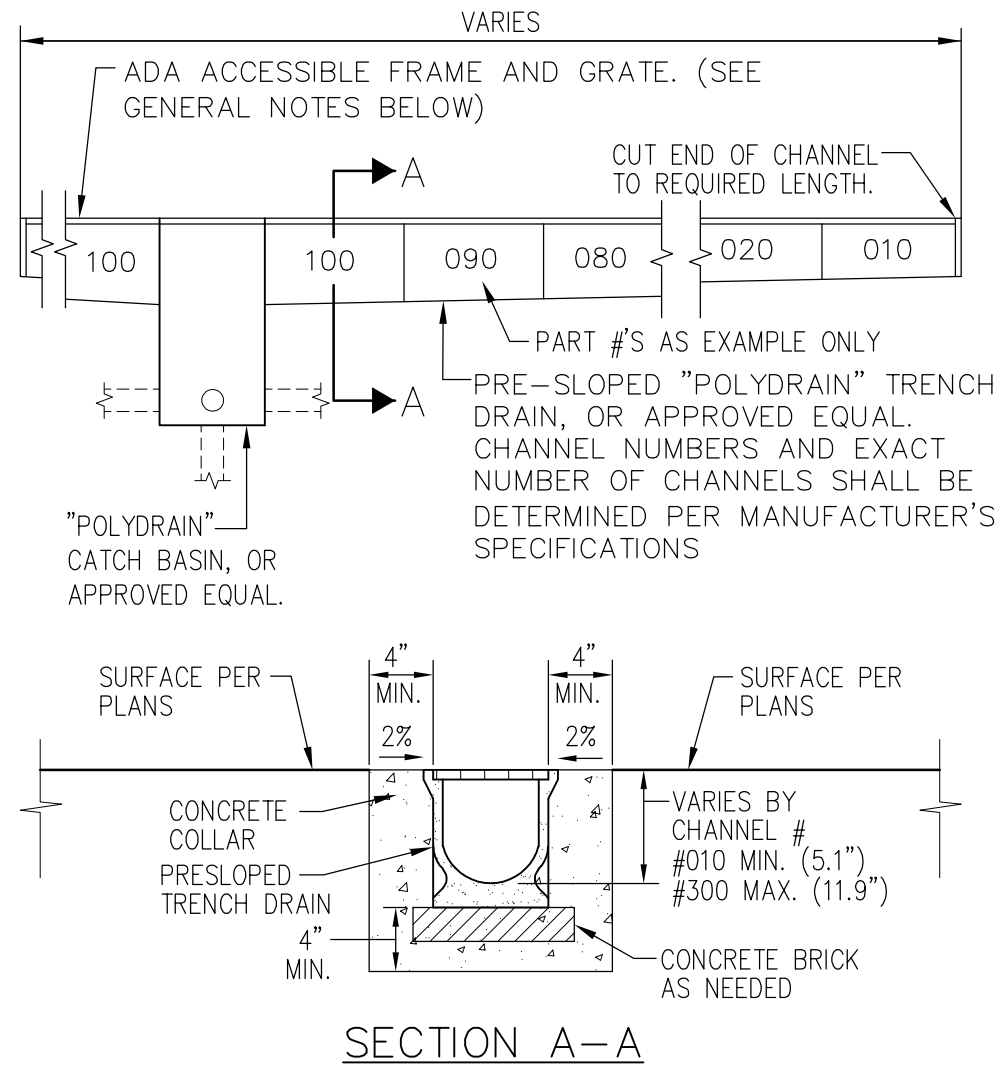
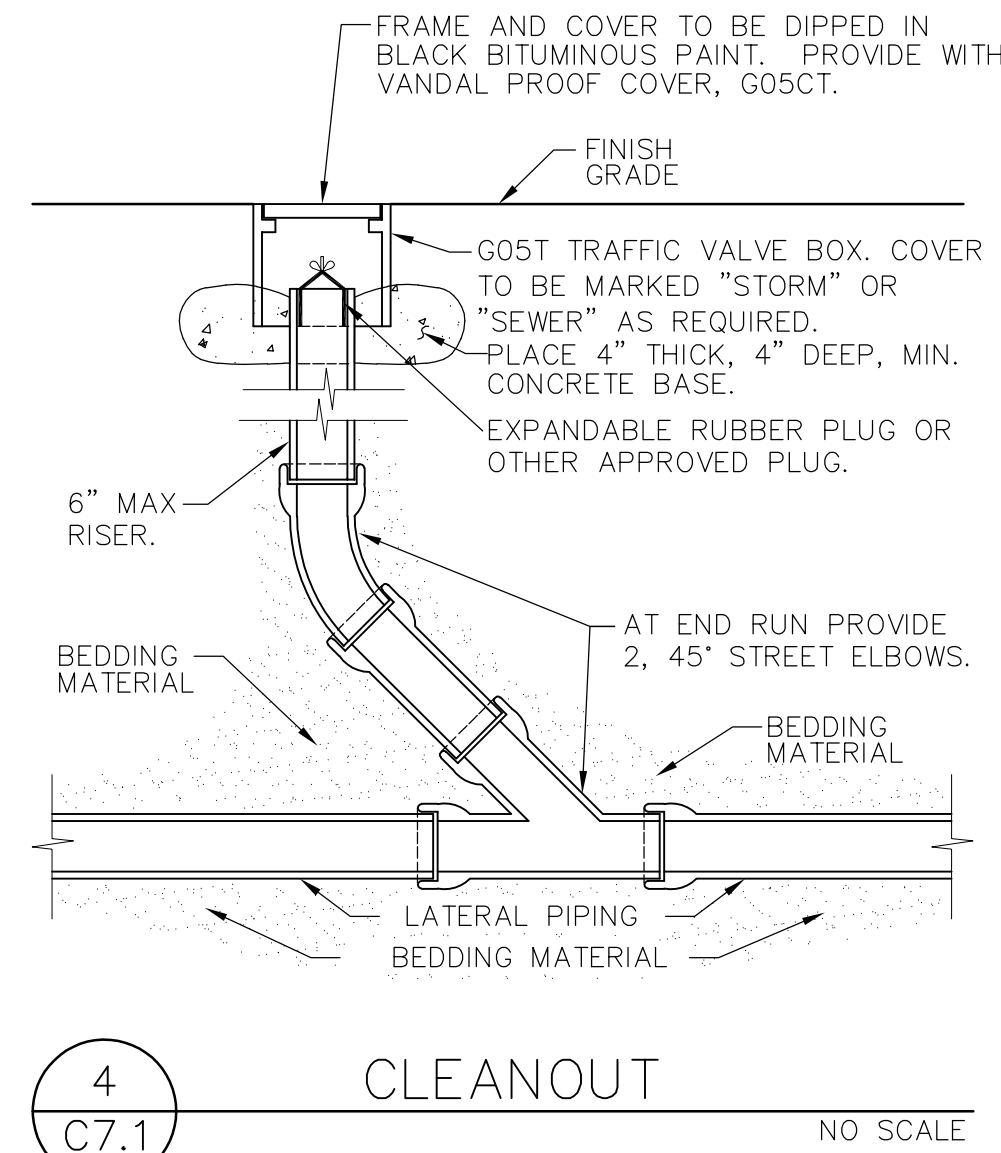
REQUIRED BEARING AREAS IN SQ. FT.		PIPE SIZES			
INSTALLATION	FITTING TYPE	4"	6"	8"	10"/12"
	90° ELL	5	11	19	28
	45° ELL	3	6	10	15
	22.5° ELL	2	3	5	8
	11.25° ELL	1	2	3	4
	TEE	4	8	13	20
	DEAD END	4	8	13	20
	GATE VALVE 4" OR LARGER	4	8	13	20
	#4 BARS TRENCH KEY 6" MIN.	4	8	13	20

### NOTES

1. THRUST BLOCKS ARE TO BE CONSTRUCTED OF 2500 PSI CONCRETE MIN.
2. AREAS IN TABLE HAVE BEEN DERIVED USING A WATER PRESSURE OF 200 POUNDS PER SQUARE INCH (13.8 BARS) AND SOIL RESISTANCE OF 1500 POUNDS PER SQUARE FOOT (137.9 BARS).
3. BLOCKING TO BE POURED AGAINST UNDISTURBED SOIL, 12 INCH THICK MINIMUM.
4. THRUST BLOCKS ARE TO BE FREE, SEPARATE, AND INDEPENDENT OF ADJACENT OR NEARBY THRUST BLOCKS.
5. WRAP ALL FITTINGS BEFORE PLACING CONCRETE.

## 9 THRUST BLOCKS

NO SCALE

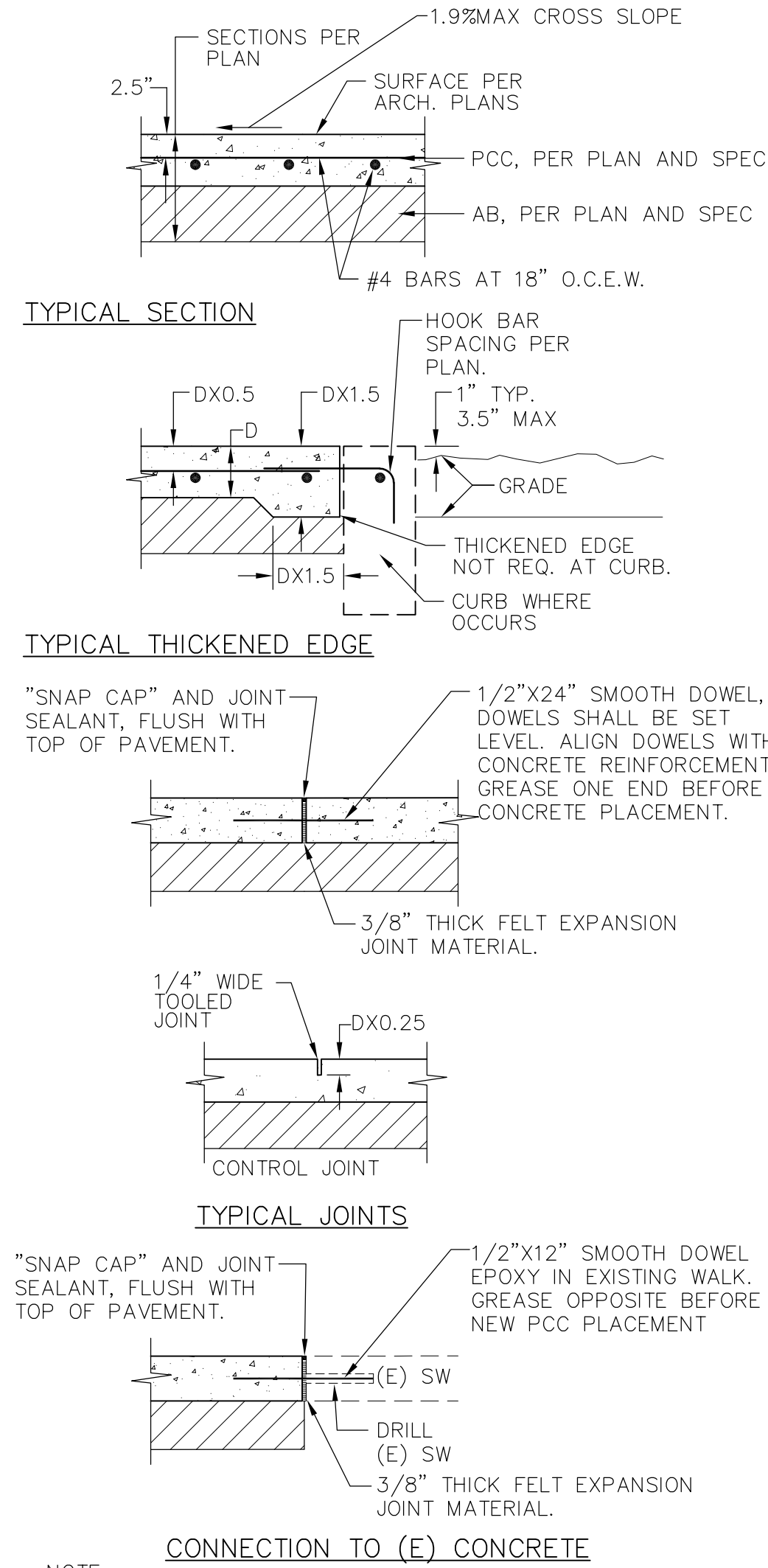
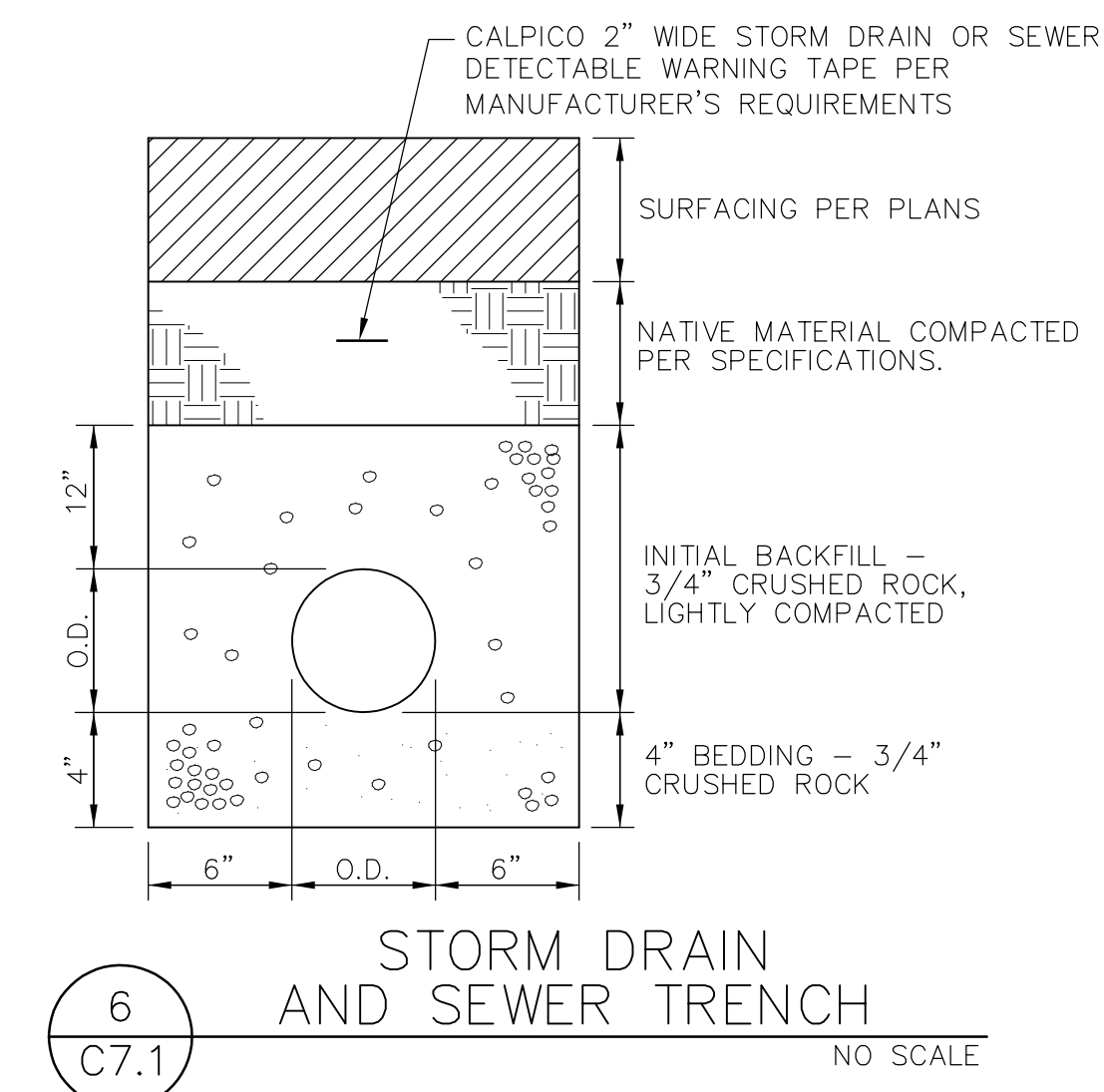


### GENERAL NOTES:

1. GRATE SHALL ADA ACCESSIBLE, POLYDRAIN MODEL 2412 OR APPROVED EQUAL. IF PLACED IN FIRE LANE OR AREA DESIGNATED FOR VEHICLE TRAFFIC PROVIDE POLYDRAIN MODEL 2506.
2. IF TRENCH DRAIN IS PLACED IN FIRE LANE OR AREA DESIGNATED FOR VEHICLE TRAFFIC PROVIDE GALVANIZED STEEL "OVERLAY RAILS" AS SUPPLIED BY POLYDRAIN, OR APPROVED EQUAL.
3. CONTRACTOR SHALL FURNISH AND INSTALL A MODEL 2811B LOCKING DEVICE, OR APPROVED EQUAL, FOR ALL TRENCH DRAIN GRATES.
4. CONTRACTOR SHALL FURNISH AND INSTALL A TRASH BUCKET, MODEL 2900, IN ALL TRENCH DRAIN CATCH BASINS.
5. CONTRACTOR SHALL PURCHASE AND FURNISH THE MAINTENANCE/OPERATIONS DEPARTMENT OF THE SCHOOL WITH 2 MODEL 2231 TRENCH DRAIN SHOVEL HEADS, WITH STANDARD WOOD, OR COMPOSITE HANDLES.
6. ALL MITERED JOINTS SHALL BE SEALED WITH POLYDRAIN "POLYSEAL" CAULKING OR APPROVED EQUAL.

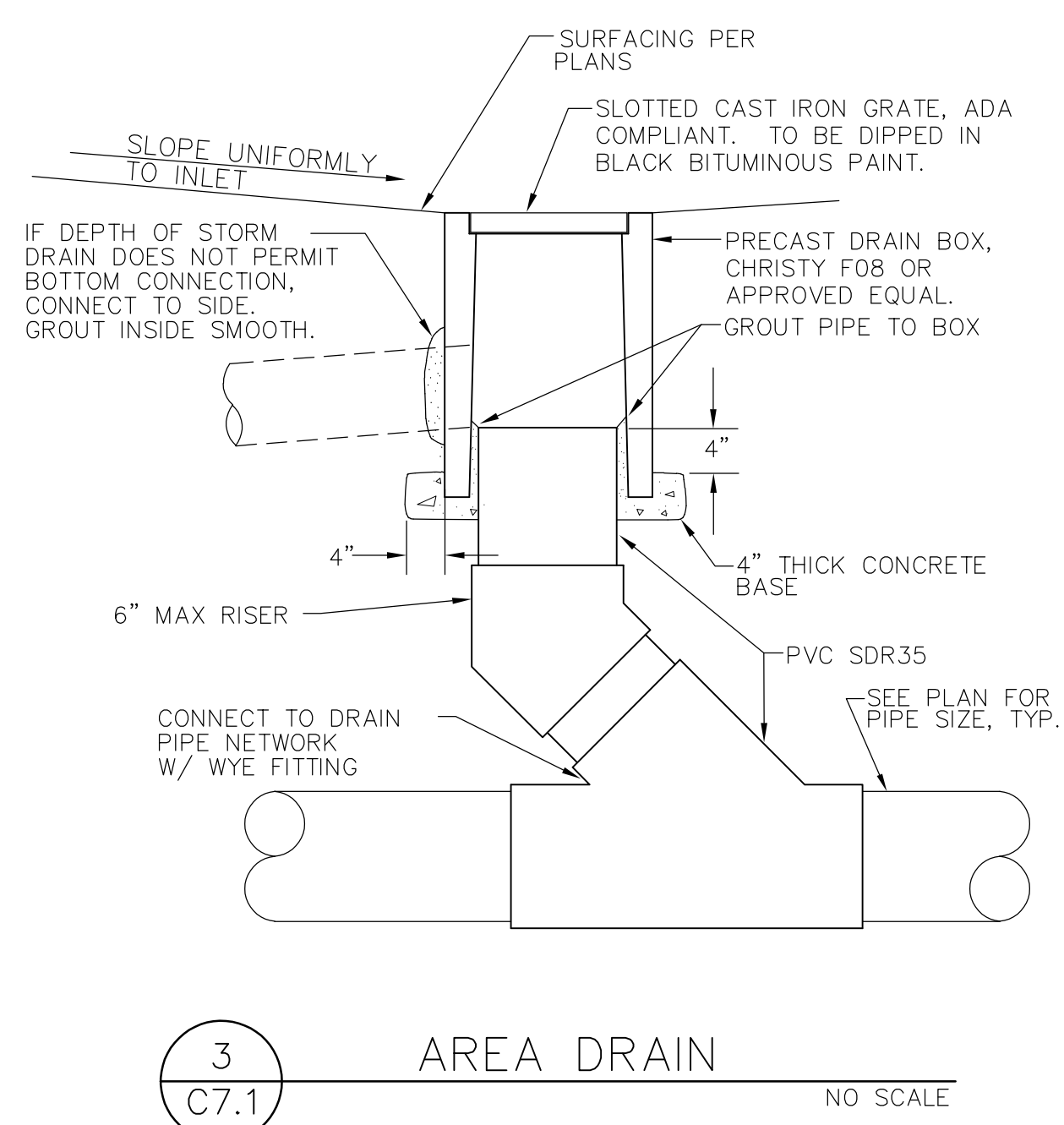
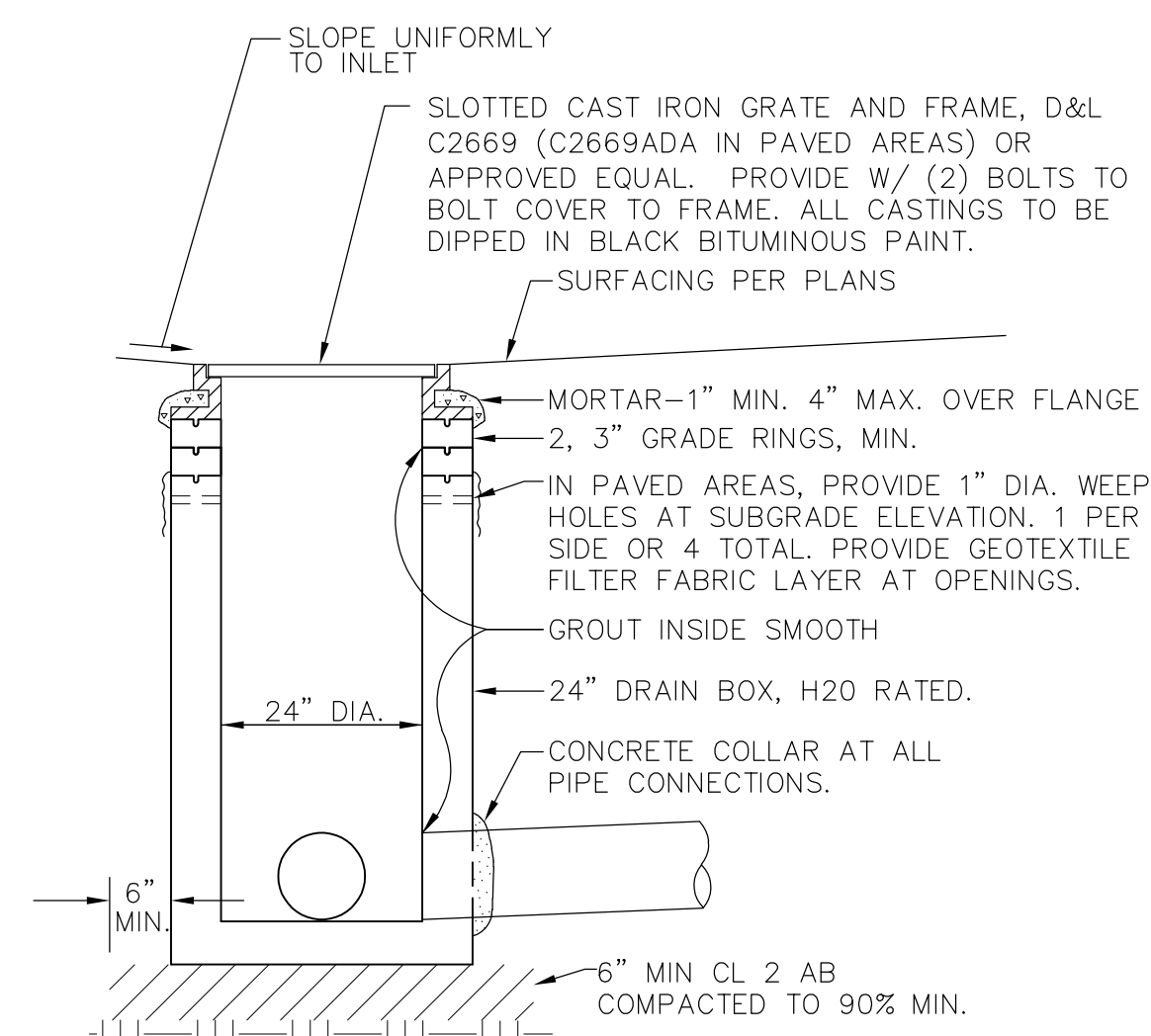
## 5 TRENCH DRAIN DETAIL

NO SCALE



## 1 CONCRETE SIDEWALK

NO SCALE



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ARCHITECT	ENGINEER
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NO.	REMARKS	DATE

<p>● DSA PLAN CHECK</p> <p>○ DSA BACK CHECK</p> <p>○ BIDDING</p> <p>○ CONSTRUCTION</p>	<p>DATE</p> <p>5/20/2019</p>
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## KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WESTACRE ROAD  
WEST SACRAMENTO, CA 95691

## DSA SUBMITTAL

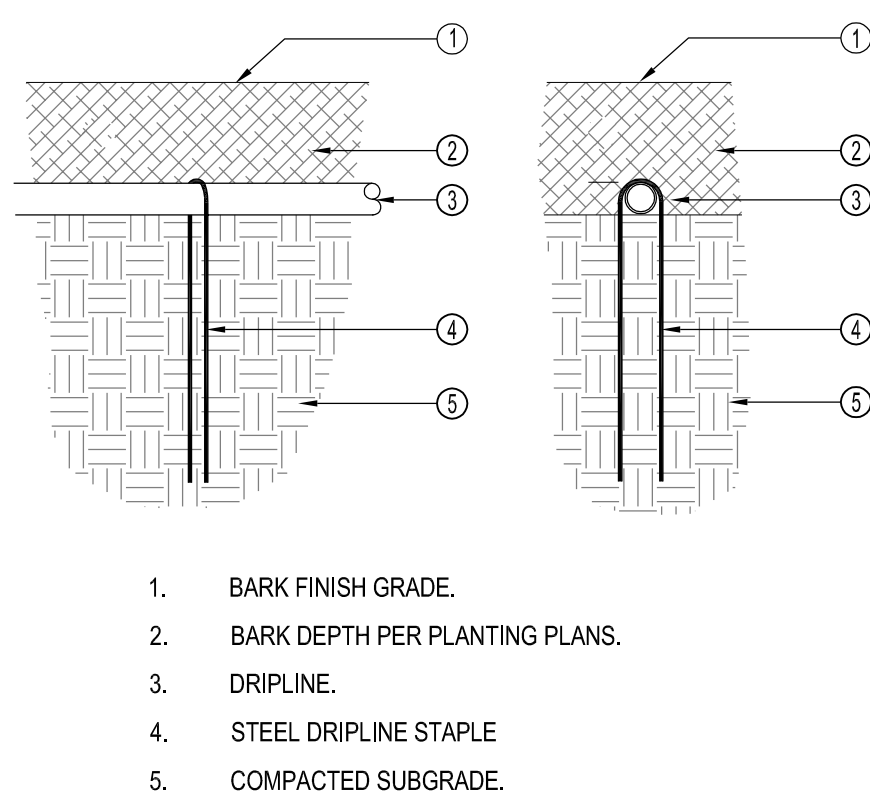
WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK ST.  
WEST SACRAMENTO, CA 95691

## DETAILS AND SECTIONS

Date 03/28/19	Project Number 19003
Scale AS NOTED	<b>C7.1</b>
Drawn AT	CHECKED AT

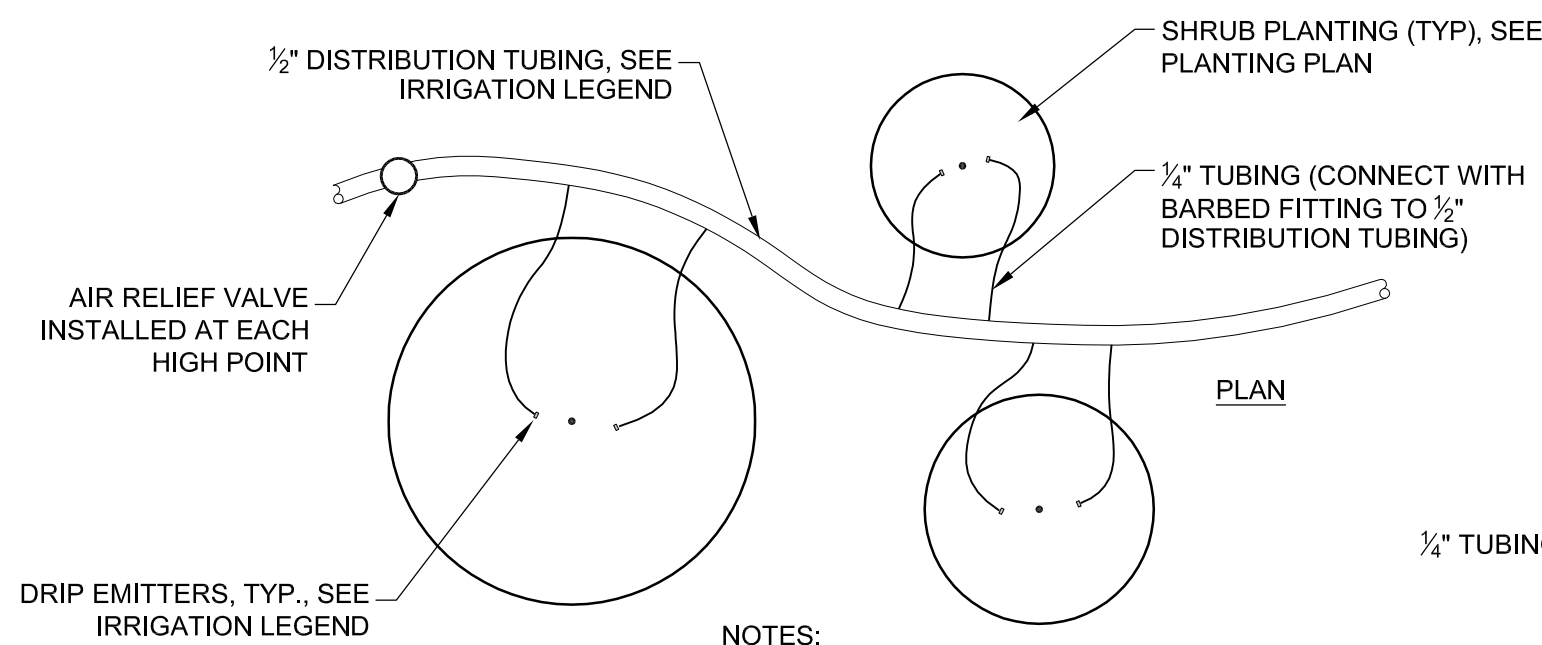


- LANDSCAPE GENERAL NOTES**
- CONSTRUCTION DOCUMENTS ARE PART OF THE CONTRACT DOCUMENTS. BY SUBMITTING A BID OR STARTING WORK, THE CONTRACTOR SIGNIFIES UNDERSTANDING AND ACCEPTANCE OF ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS PROVIDED BY THE OWNER/DEVELOPER, INCLUDING BUT NOT LIMITED TO THE GENERAL CONDITIONS, SPECIAL CONDITIONS, PROJECT SPECIFICATIONS, CONSTRUCTION DOCUMENTS AND ANY ADDENDA.
  - THE CONTRACTOR SHALL EXAMINE THE SITE, COMPARE IT WITH THE PLANS, CAREFULLY EXAMINE ALL THE CONTRACT DOCUMENTS AND BECOME SATISFIED AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED BEFORE ENTERING INTO THIS CONTRACT. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE ON BEHALF OF THE CONTRACTOR ON ACCOUNT OF THAT CONTRACTOR'S ERROR, NEGLIGENCE OR FAILURE TO BECOME ACQUAINTED WITH THE CONDITIONS OF THE SITE.
  - THE CONTRACTOR SHALL BE RESPONSIBLE TO VISUALLY INSPECT THE SITE PRIOR TO STARTING THE WORK AND FOR DOCUMENTING DAMAGE TO ANY EXISTING FEATURES. ANY DAMAGE TO THE EXISTING STREETS, SIDEWALKS, ADJACENT PROPERTIES OR ANY EXISTING FEATURES THAT ARE TO REMAIN (INCLUDING BUT NOT LIMITED TO EXISTING PLANT MATERIAL AND UTILITIES) DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED OR REPLACED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
  - COMPACTION OF BACKFILL BY JETTING IS NOT PERMITTED UNLESS SPECIFIC REPORTS ARE SUBMITTED BY THE GEOTECHNICAL ENGINEER TO THE ENGINEERING DIVISION STATING THAT COMPACTION OF BACKFILL BY JETTING IS AN ACCEPTABLE METHOD OF COMPACTION FOR THE SOILS ENCOUNTERED.
  - THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL AND SITE PREPARATION NECESSARY FOR THE PROPER EXECUTION OF ALL WORK DESCRIBED WITHIN THIS PLAN SET. ANY ITEMS REQUIRED TO BE REMOVED SHALL BE LEGALLY DISPOSED OF OFF SITE.
  - ALL EXISTING FEATURES AND STRUCTURES NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE RETAINED AND PROTECTED IN PLACE. ANY EXISTING FEATURES THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
  - THE CONTRACTOR SHALL COMPLETE THE REQUIREMENTS OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND THE CERTIFICATE OF COMPLETION (REQUIREMENTS ABOVE) UPON COMPLETION OF THE LANDSCAPE IMPROVEMENTS. FAILURE TO SUBMIT THE REQUIRED CERTIFICATES MAY DELAY THE FINAL APPROVAL OF THE LANDSCAPE IMPROVEMENTS AND PROJECT CERTIFICATE OF OCCUPANCY.
  - LANDSCAPE SUBMITTALS (MANUFACTURERS PRODUCT SHEETS) SHALL BE PROVIDED PRIOR TO THE START OF THE WORK. LANDSCAPE SUBMITTALS SHALL INCLUDE SOIL AMENDMENT ANALYSIS REPORT (PER PLANTING NOTES).
  - THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST DURING THE CONSTRUCTION PERIOD (OR WHENEVER SOIL IS LEFT EXPOSED). ALL DUST CONTROL MEASURES MUST BE IMPLEMENTED AS NECESSARY, INCLUDING DAYS WHEN CONSTRUCTION ACTIVITIES ARE NOT OCCURRING (I.E. WEEKENDS OR HOLIDAYS).
  - CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A MINIMUM 30-DAY MAINTENANCE PERIOD FOR ALL PLANTING AREAS UPON FINAL ACCEPTANCE OF THE LANDSCAPE IMPROVEMENTS BY THE OWNER AND LOCAL AGENCY.
  - CONTRACTOR SHALL PROVIDE SOIL AMENDMENTS AS SHOWN ON SHEET L3 AND PER THE NOTES REQUIRING A SOILS TEST.
  - CONTRACTOR SHALL CONNECT TO EXISTING IRRIGATION CONTROLLER THAT WAS INSTALLED FROM THE PHASE 1 IMPROVEMENTS. COORDINATE WITH DISTRICT ON LOCATION AND REQUIREMENTS.
  - UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL PROVIDE AND PAY FOR LABOR, MATERIALS, EQUIPMENT, TOOLS, MACHINERY, UTILITIES, TRANSPORTATION AND OTHER FACILITIES AND SERVICES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK, WHETHER TEMPORARY OR PERMANENT, AND WHETHER INCORPORATED OR NOT INCORPORATED IN THE WORK.
  - THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK, INCLUDING COORDINATION OF TRADES. ALL WORK SHALL BE ACCOMPLISHED BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS. THE CONTRACTOR SHALL EMPLOY A SUPERINTENDENT TO SUPERVISE THE WORK ON SITE WHO SHALL BE THE CONTRACTORS REPRESENTATIVE.
  - CONFORM TO ALL APPLICABLE CODES AND ORDINANCES, INCLUDING AIR QUALITY, NOISE AND WORK HOUR REQUIREMENTS.
  - IF ANY HAZARDOUS MATERIALS, BURIAL MARKERS, ARCHEOLOGICAL MATERIALS OR WETLANDS ARE FOUND, CONTRACTOR SHALL SUSPEND WORK IMMEDIATELY AND NOTIFY THE OWNER IN WRITING. WORK SHALL BE SUSPENDED UNTIL THE SIGNIFICANCE OF THE DISCOVERY IS ASSESSED BY A QUALIFIED PROFESSIONAL AND MITIGATION MEASURES ARE APPROVED.
  - DURING PROGRESSION OF THE WORK, THE CONTRACTOR SHALL MAINTAIN A COPY OF THE DRAWINGS ON SITE IN A NEAT AND ORDERLY MANNER, INCLUDING ALL ADDENDA, REQUESTS FOR INFORMATION, SUPPLEMENTAL INFORMATION, APPROVED SUBSTITUTIONS, APPROVED SHOP DRAWINGS, AND OTHER DOCUMENTS AND MARK THIS COPY TO INDICATE FIELD CHANGES AND AND BUILT CONDITIONS THROUGHOUT THE PROGRESSION OF THE WORK.
  - UNTIL PROJECT ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROJECT AND MAINTAIN THE JOB SITE, INCLUDING ERECTING TEMPORARY FENCINGS, REMOVING TRASH, SWEEPING AND CLEANING. THE JOB SITE SHALL BE KEPT IN A NEAT AND CLEAN CONDITION AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS ON THE JOB SITE AND SHALL REPLACE ANY MATERIALS DAMAGED OR LOST THROUGH THEFT OR OTHER REASONS AT NO ADDITIONAL COST TO THE OWNER.



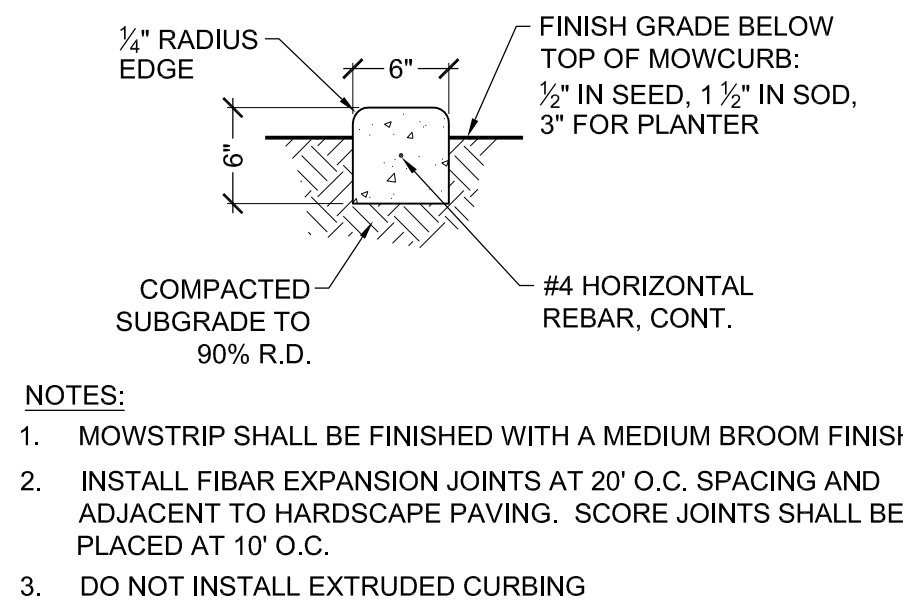
NOTE: LOCATE STAPLES ALONG TUBING AT 36" ON EMITTERS AND AT ALL FITTINGS (TEES, ELBS, ETC.)

#### H-DRIPTUBE STAPLE NTS



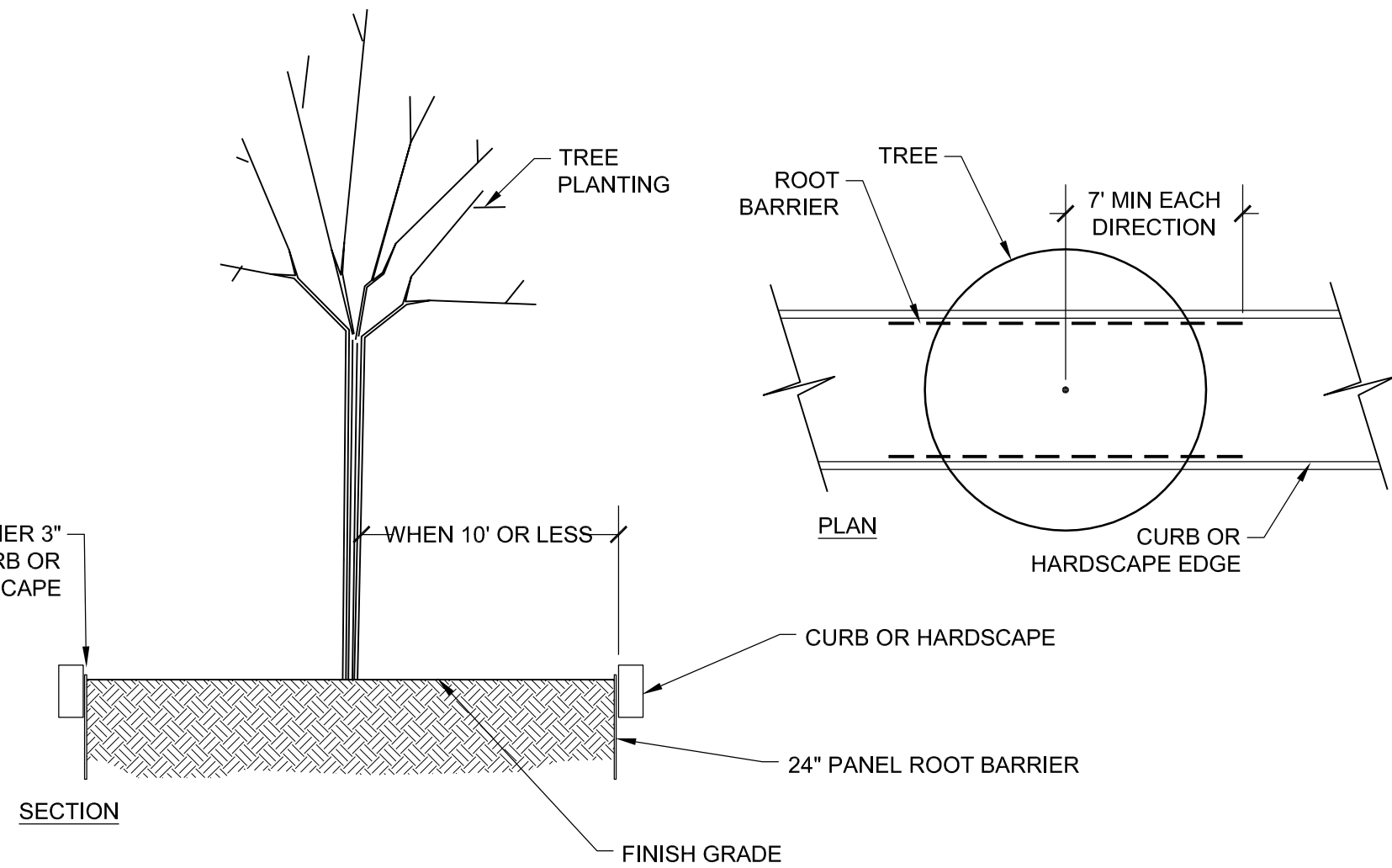
- NOTES:
- MAXIMUM LENGTH OF 1/2" TUBING NOT TO EXCEED 24"
  - INSTALL TWO (2) 1.0 GPH EMITTERS PER 1 GALLON SHRUB AND TWO (2) 2.0 GPH EMITTERS PER 5 GALLON SHRUB.
  - CONNECT 1/2" DISTRIBUTION LINE TO PVC LATERAL PER SECTION ABOVE.
  - INSTALL SOIL STAPLES 36" ON CENTER ALONG THE DISTRIBUTION TUBE AND AT EVERY FITTING.

#### I- POINT SOURCE DRIP TUBE LAYOUT NTS

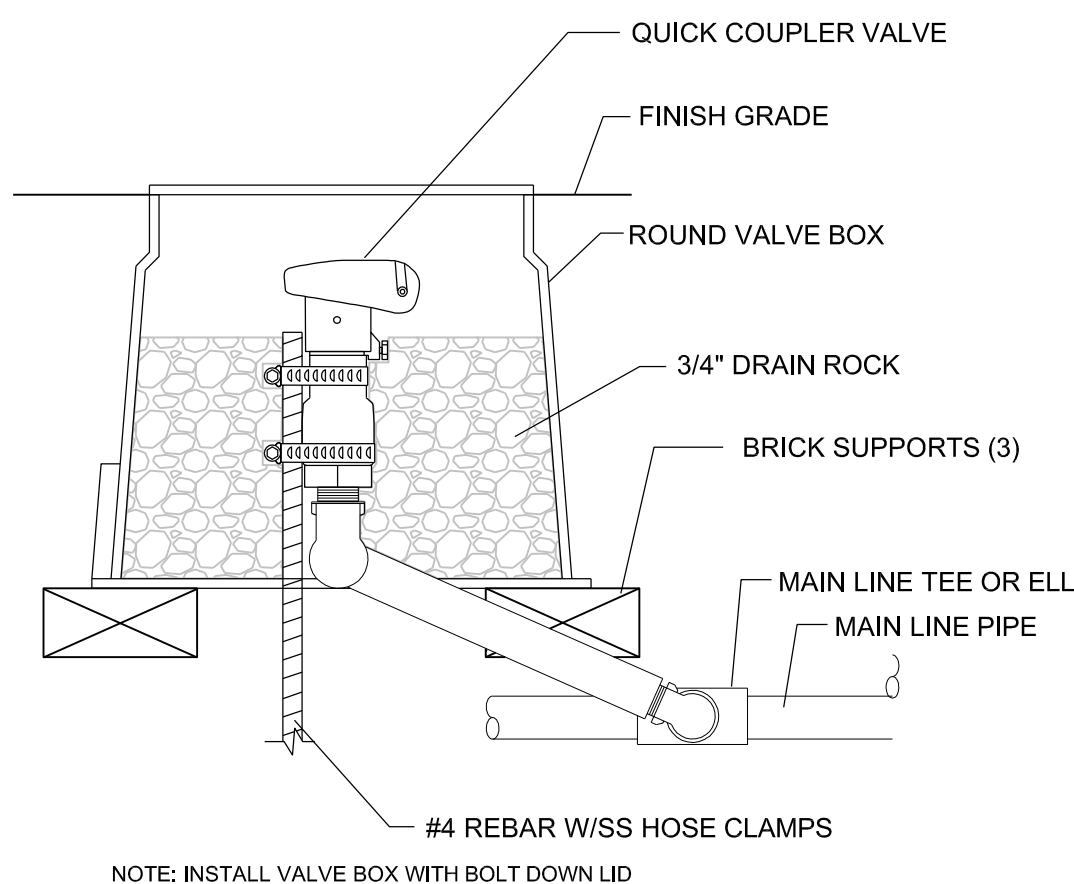


- NOTES:
- MOWSTRIP SHALL BE FINISHED WITH A MEDIUM BROOM FINISH.
  - INSTALL FIBAR EXPANSION JOINTS AT 20' O.C. SPACING AND ADJACENT TO HARDSCAPE PAVING. SCORE JOINTS SHALL BE PLACED AT 10' O.C.
  - DO NOT INSTALL EXTRUDED CURBING

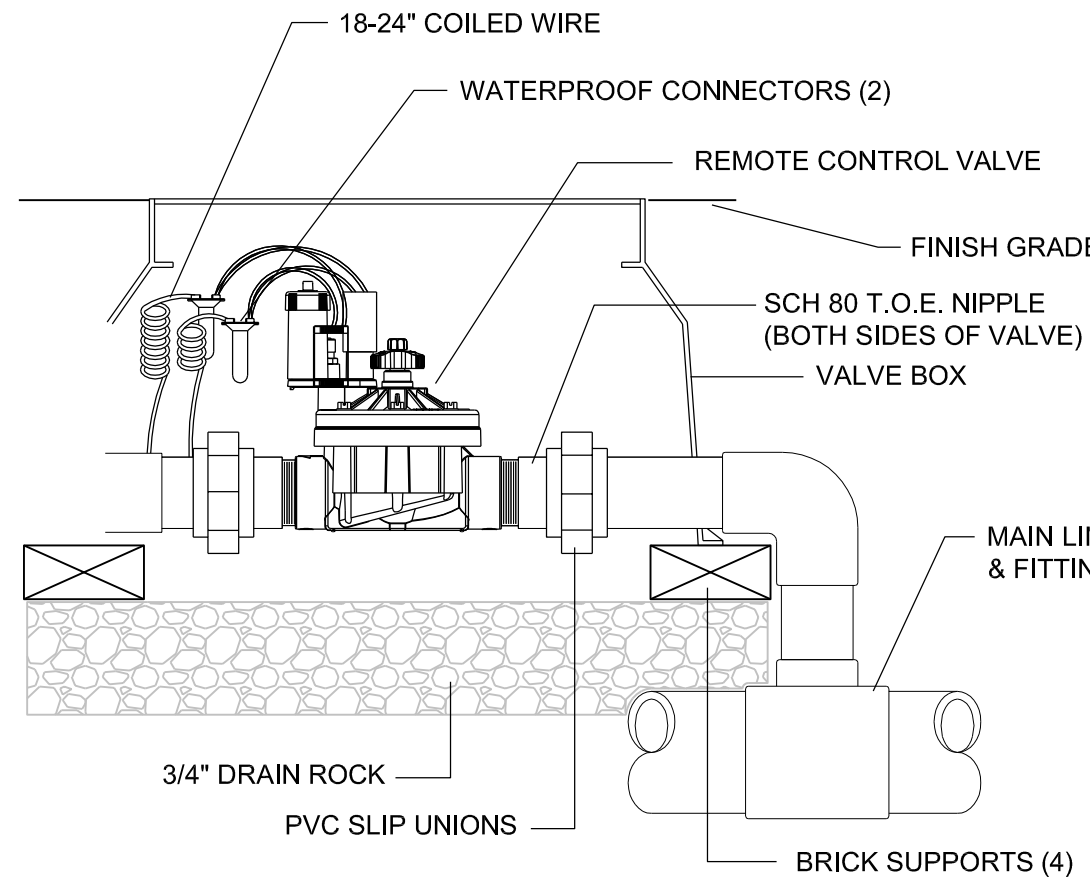
#### L- CONCRETE MOWCURB NTS



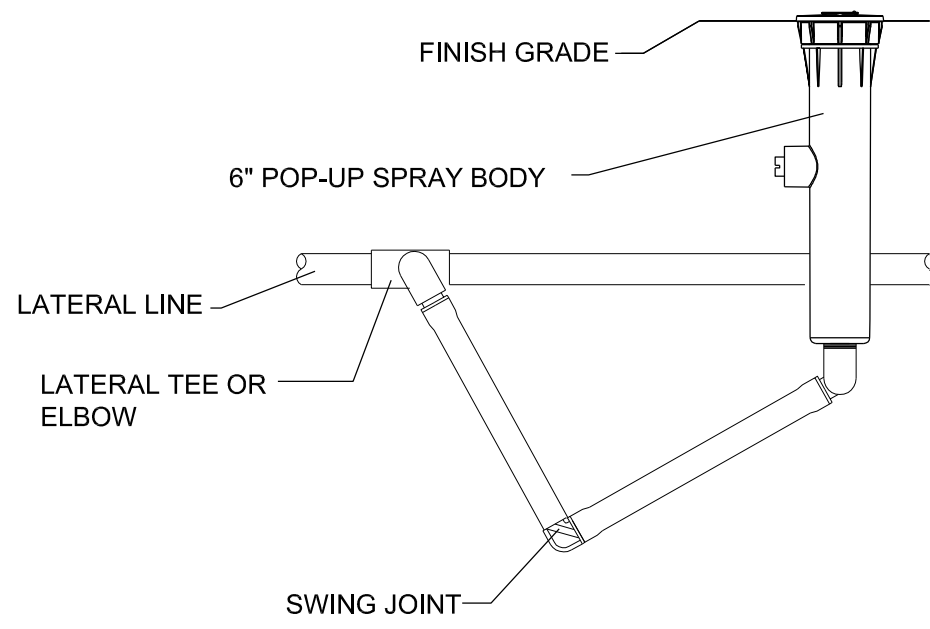
#### M- ROOT BARRIER DETAIL NTS



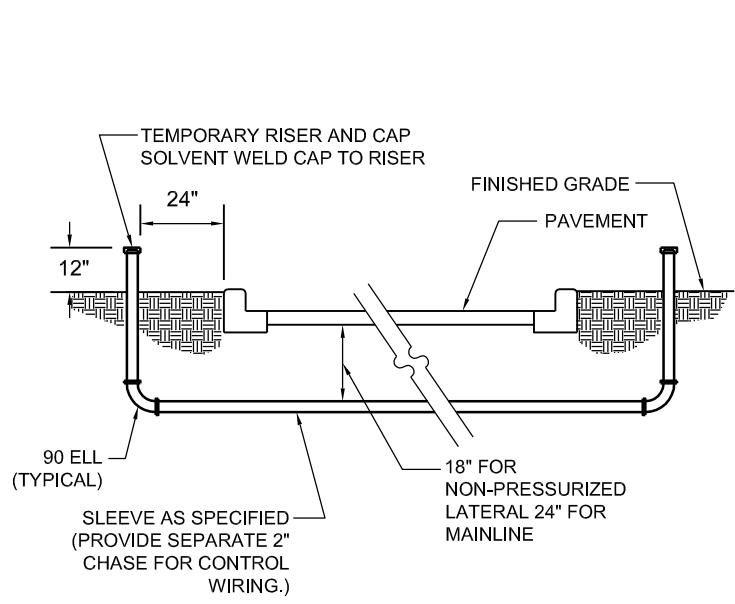
#### A- QUICK COUPLER NTS



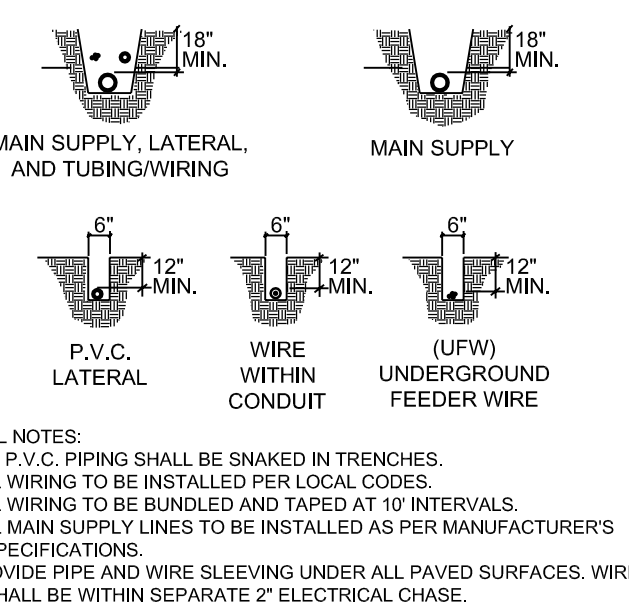
#### B- REMOTE CONTROL VALVE (SPRAY) NTS



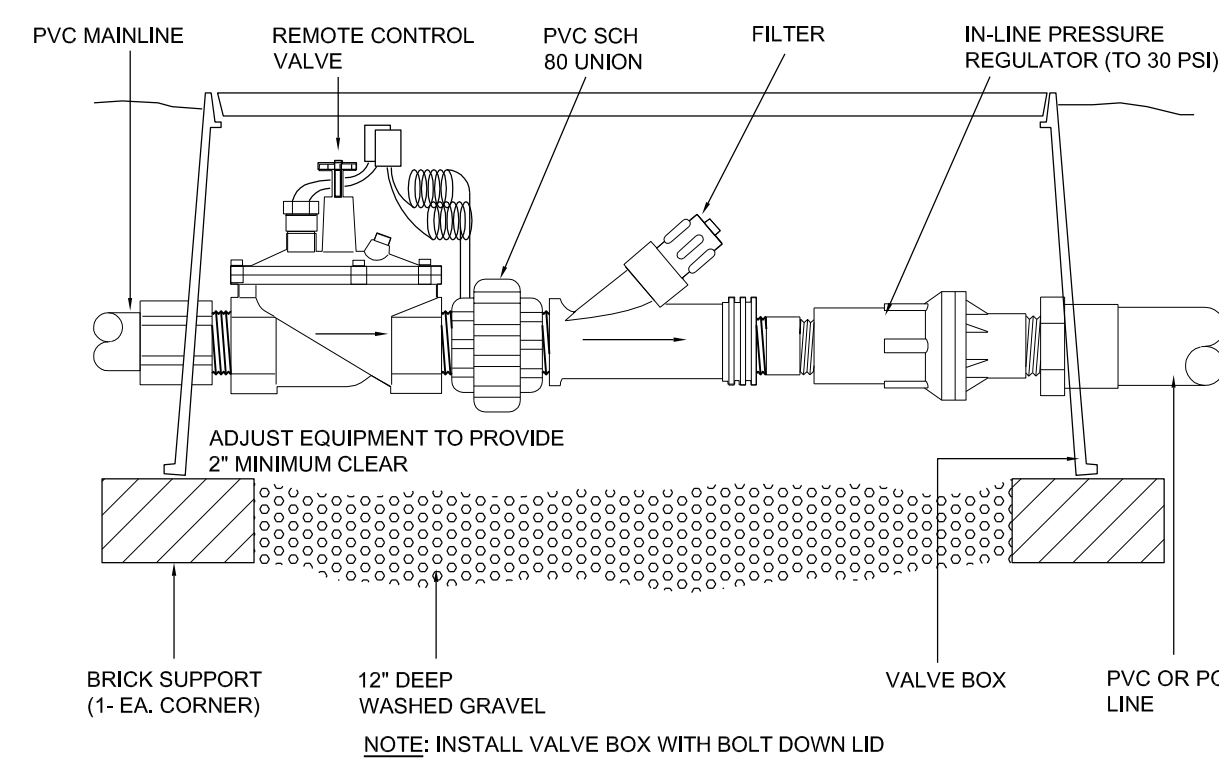
#### C- 6" POP-UP SPRAY HEAD NTS



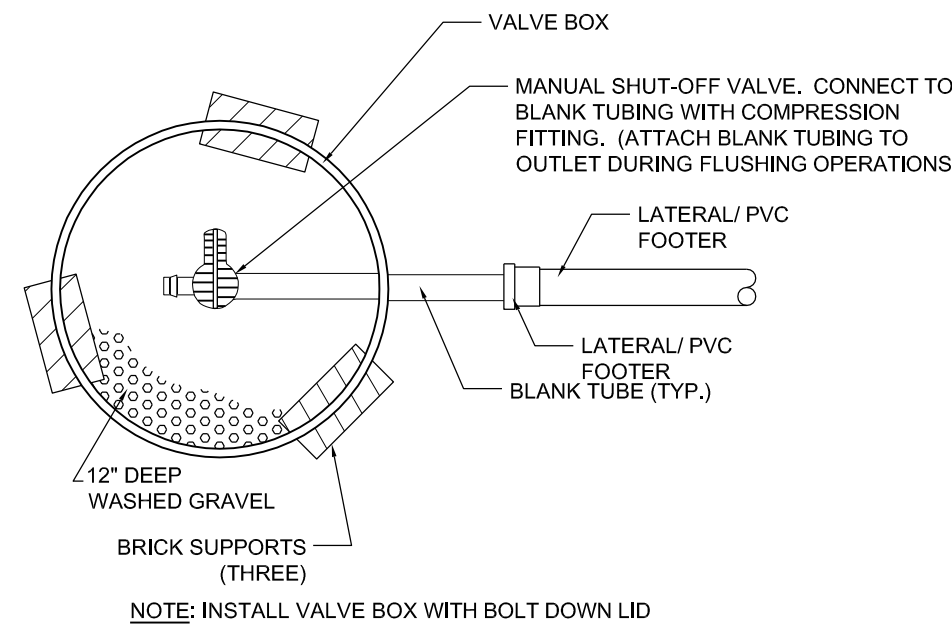
#### D- SLEEVE INSTALLATION NTS



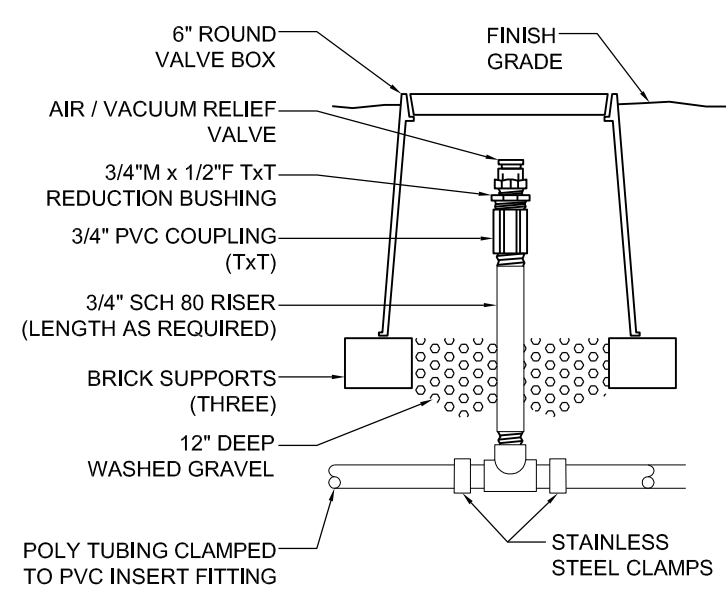
#### E- TRENCHING NTS



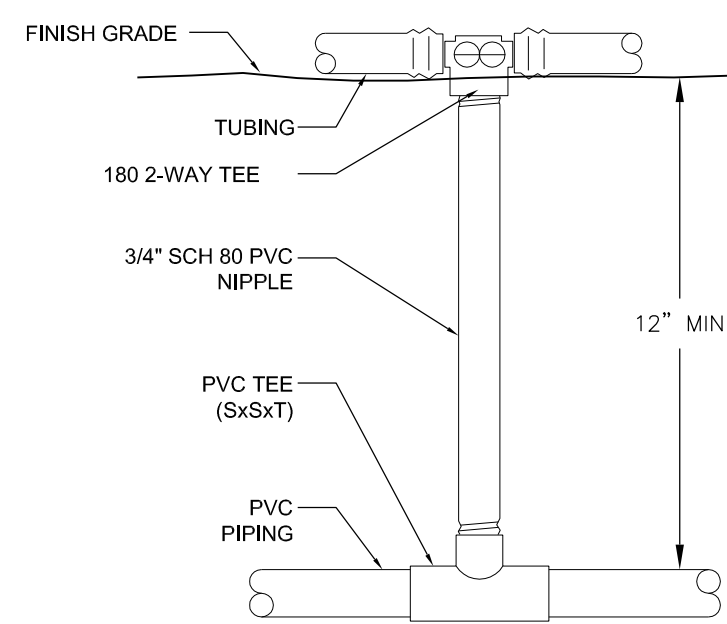
#### F- REMOTE CONTROL VALVE (DRIP) NTS



#### G- LINE FLUSH VALVE NTS



#### J- AIR/VACCUM RELIEF NTS



#### K- STARTER CONNECTION NTS

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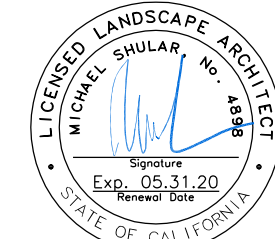
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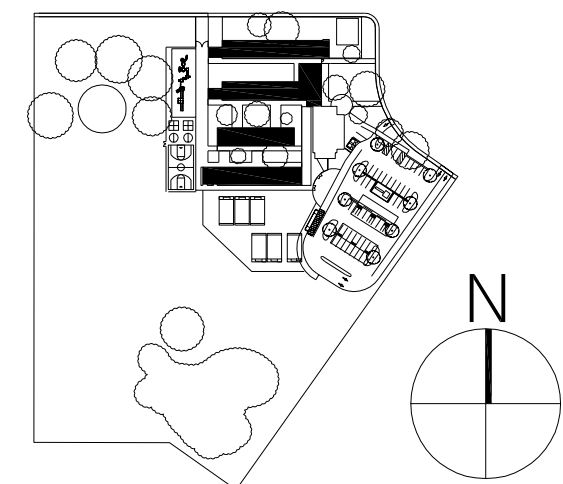
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<input type="radio"/> BIDDING	
<input type="radio"/> CONSTRUCTION	

#### KEY PLAN



WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WESTACRE ROAD  
WEST SACRAMENTO, CA 95691

DSA SUBMITTAL

WESTMORE OAKS  
ELEMENTARY  
SCHOOL  
1504 FALLBROOK ST.  
WEST SACRAMENTO, CA 95691

LANDSCAPE  
DETAILS

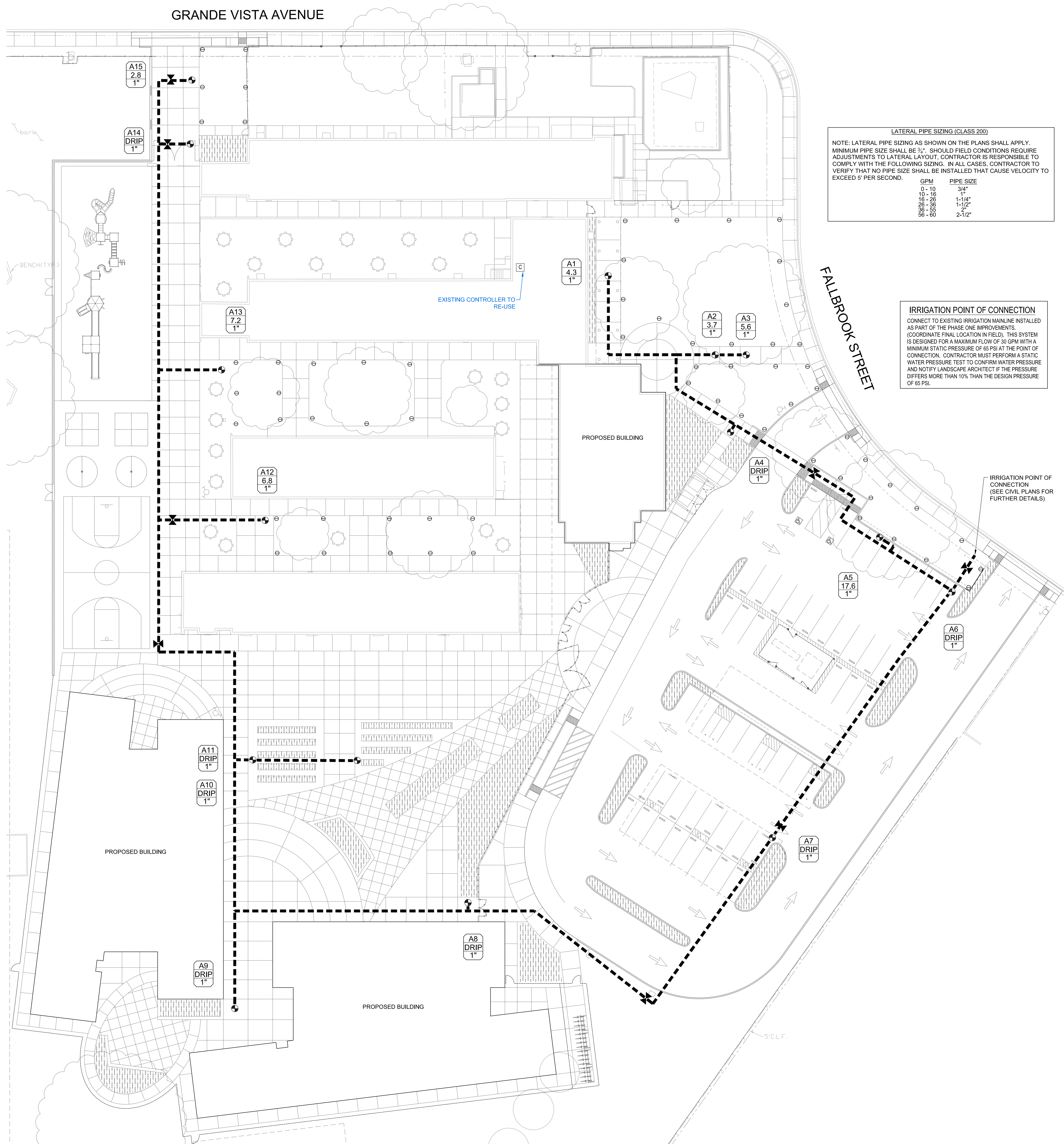
Date 05/20/19	Drawing Number
Scale AS NOTED	L1
Project Number 19003.1	



1. THESE PLANS ARE DIAGRAMMATIC. ALL EQUIPMENT SHOWN WITH PAVED AREAS IS FOR DESIGN CLARITY ONLY AND SHALL BE INSTALLED IN PLANTING AREAS.
2. IRRIGATION CONTRACTOR SHALL FLUSH ALL LINES FOR MAXIMUM SYSTEM PERFORMANCE.
3. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE PROJECT SPECIFICATIONS PRIOR TO BEGINNING WORK. THE PROJECT SPECIFICATIONS FOR THESE PLANS AND SHALL BE CONSULTED BY THE IRRIGATION CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE WORK AS SPECIFIED IN THE SPECIFICATIONS AND AS SHOWN ON THE PLANS.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES AND UTILITY LOCATIONS PRIOR TO BEGINNING WORK.
5. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN THE PLANS AND/OR SPECIFICATIONS PRIOR TO BEGINNING WORK.
6. SUBSTITUTIONS, DELETIONS OR CHANGES TO THE PLANS OR SPECIFICATIONS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF LANDSCAPE ARCHITECT.
7. ALL CONSTRUCTION SHALL CONFORM TO LOCAL CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO THE START WORK.
8. THE IRRIGATION PLAN IS SCHEMATIC IN NATURE. THE CONTRACTOR SHALL MAKE ADJUSTMENTS AS NECESSARY BASED ON ACTUAL FIELD CONDITIONS TO GUARANTEE ADEQUATE IRRIGATION COVERAGE TO ALL PLANT MATERIAL.
9. EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE. TRENCHING WITH DRIP LINES OF TREES AND SHRUBS TO REMAIN SHALL BE DONE AT OWNERS RISK. DAMAGE TO EXISTING TREES AND/OR PLANT MATERIAL TO REMAIN SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.
10. CONNECT TO EXISTING IRRIGATION CONTROLLER INSTALLED AS PART OF THE PHASE ONE IMPROVEMENTS.
11. COORDINATE CONNECTION WITH DISTRICT MAINTENANCE OFFICIALS.
12. ALL MATERIAL SHALL BE NEW UNLESS OTHERWISE SPECIFIED.
13. SCHEDULE 40 PVC PIPE (SLEEVE) (2" THE PIPE TO BE SLEEVED) IS REQUIRED FOR ALL IRRIGATION LINES THAT RUN UNDER HARDSCAPE. IRRIGATION CONTRACTOR IS RESPONSIBLE TO COORDINATE PLACEMENT OF SLEEVINGS PRIOR TO PAVING OPERATIONS.
14. MAINTAIN AN ACCURATE ACCOUNT OF AS-BUILT CONDITIONS. CONTRACTOR SHALL SUPPLY AS BUILT DRAWINGS OF AS-BUILT CONDITIONS AT THE COMPLETION OF THE LANDSCAPE INSTALLATION. AS-BUILT DRAWINGS SHALL BE PROVIDED ON A CD WITH HARDWARE WITH PERMANENT COLOR MARKERS NOTING AS-BUILT CONDITIONS AS WELL AS ELECTRONIC FORMAT (PDF SCAN FILES).
15. PROVIDE A COLOR CODED IRRIGATION CONTROLLER CHART AT THE COMPLETION OF THE PROJECT. CHARTS SHALL BE LAMINATED 11"X17" SIZE SHOWING LOCATIONS OF HYDROZONES.

VALVE CALL-OUT KEY

A7	CONTROLLER STATION
21.3	GALLONS PER MINUTE
1.5"	VALVE SIZE



### PIPE SIZING (CLASS 200)

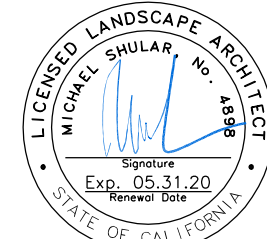
NOTE: LATERAL PIPE SIZING AS SHOWN ON THE PLANS SHALL APPLY. MINIMUM PIPE SIZE SHALL BE ¾". SHOULD FIELD CONDITIONS REQUIRE ADJUSTMENTS TO LATERAL LAYOUT, CONTRACTOR IS RESPONSIBLE TO COMPLY WITH THE FOLLOWING SIZING. IN ALL CASES, CONTRACTOR TO VERIFY THAT NO PIPE SIZE SHALL BE INSTALLED THAT CAUSE VELOCITY TO EXCEED 5' PER SECOND.

GPM	PIPE SIZE
0 - 10	3/4"
10 - 16	1"
16 - 26	1-1/4"
26 - 36	1-1/2"
36 - 55	2"
56 - 60	2-1/2"

## IRRIGATION POINT OF CONNECTION

CONNECT TO EXISTING IRRIGATION MAINLINE INSTALLED AS PART OF THE PHASE ONE IMPROVEMENTS. (COORDINATE FINAL LOCATION IN FIELD). THIS SYSTEM IS DESIGNED FOR A MAXIMUM FLOW OF 30 GPM WITH A MINIMUM STATIC PRESSURE OF 65 PSI AT THE POINT OF CONNECTION. CONTRACTOR MUST PERFORM A STATIC WATER PRESSURE TEST TO CONFIRM WATER PRESSURE AND NOTIFY LANDSCAPE ARCHITECT IF THE PRESSURE DIFFERS MORE THAN 10% THAN THE DESIGN PRESSURE OF 65 PSI.

LANDSCAPE ARCHITECT



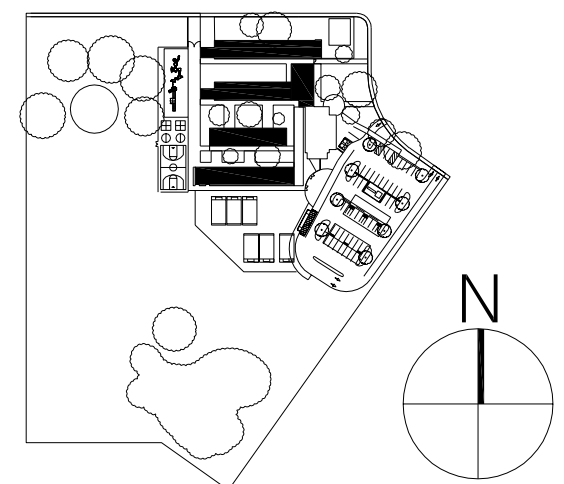
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## KEY PLAN



WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WESTACRE ROAD  
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DSA SUBMITTAL

WESTMORE OAKS  
ELEMENTARY  
SCHOOL

1504 FALLBROOK ST.  
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# IRRIGATION PLAN

Date 05/20/19	Drawing Number
Scale AS NOTED	L2
Project Number 19003.1	

## L2

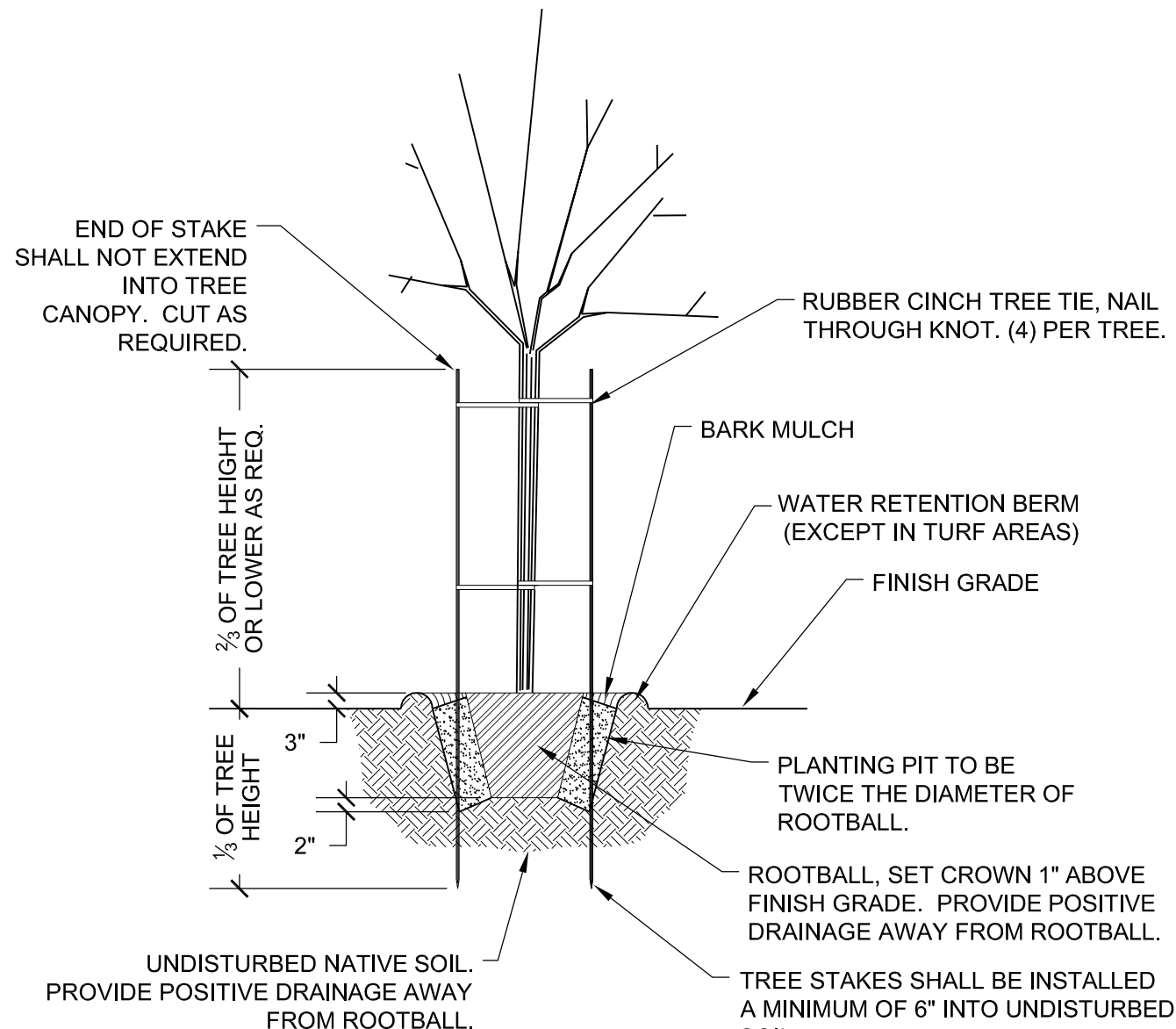


PLANTING NOTES

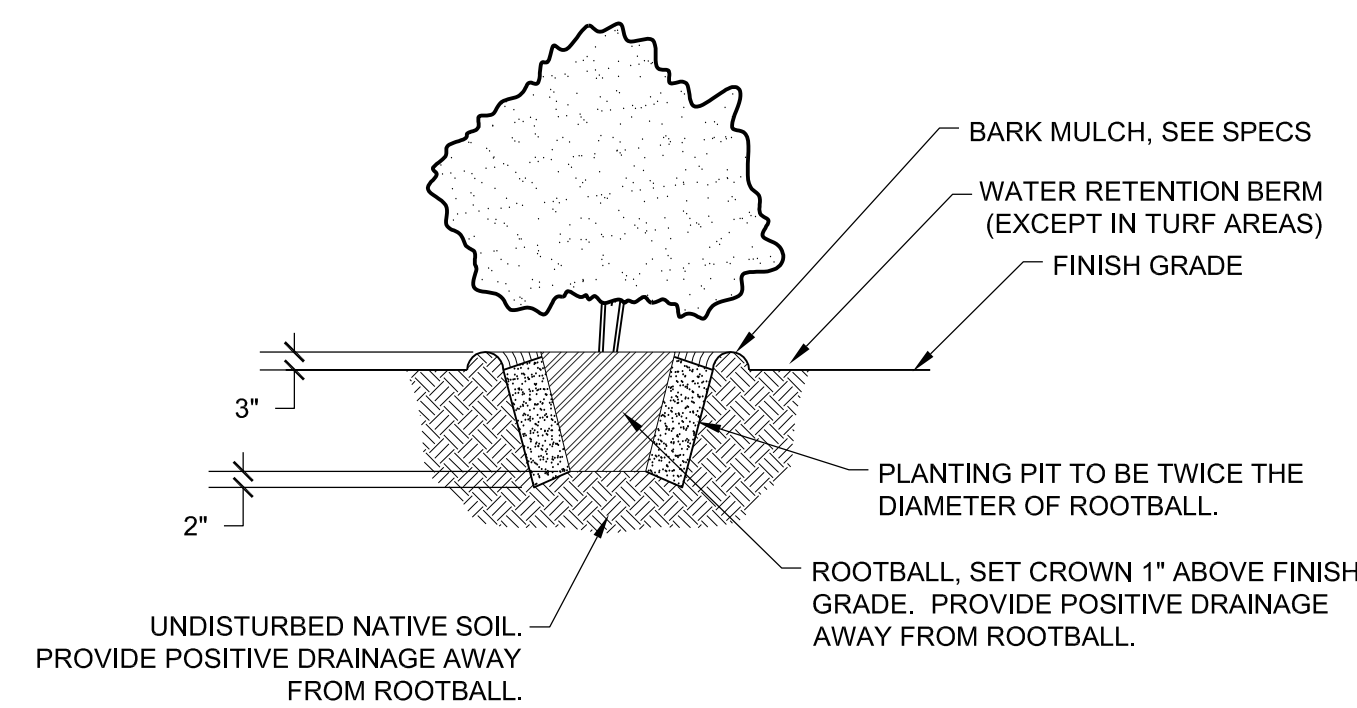
1. PLANTING SHALL CONFORM TO CITY REQUIREMENTS FOR LANDSCAPE SITE DEVELOPMENT.
2. PROVIDE MINIMUM SLOPE OF 1 3/4% FOR POSITIVE DRAINAGE AWAY FROM CENTER IN ALL PLANTED AREAS.
3. THE PLANT QUANTITIES SHOWN ON THE DRAWINGS ARE INFORMATIONAL ONLY. THE CONTRACTOR IS RESPONSIBLE FOR FINAL QUANTITIES REQUIRED TO COMPLETE THE WORK. IN CASE OF DISCREPANCY, THE PLAN SHALL GOVERN.
4. ALL TREES SHALL BE PLANTED A MINIMUM OF 5' FROM UNDERGROUND UTILITIES.
5. ALL EXISTING TREES SHALL BE PROTECTED FROM DAMAGE OR INJURY. NO PARKING OR STACKING OF CONSTRUCTION MATERIAL IS ALLOWED WITHIN THE DRIPLINE OF AN EXISTING TREE.
6. IMMEDIATELY AFTER AWARD OF CONTRACT, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF SPECIFIED PLANT MATERIAL IS AVAILABLE FROM COMMERCIAL NURSERIES. IN THE EVENT THAT A PLANT IS NOT AVAILABLE, THE LANDSCAPE ARCHITECT WILL PROVIDE ALTERNATE PLANT MATERIAL SELECTIONS. SUCH CHANGES WILL NOT ALTER THE CONTRACTOR'S ORIGINAL BID PRICE UNLESS A CREDIT IS DUE TO THE OWNER.
7. THE CONTRACTOR SHALL ENSURE THAT ALL EXCAVATED PLANT PITS HAVE POSITIVE DRAINAGE. PLANT PITS SHALL BE FULLY FILLED WITH WATER AND SHALL DRAIN WITHIN ONE (1) HOUR OF FILLING. THE CONTRACTOR SHALL EXCAVATE THROUGH ANY IMPERVIOUS LAYER IF ENCOUNTERED.
8. ALL PLANT MATERIAL SHALL COMPLY WITH ANSI Z601 'STANDARD FOR NURSERY STOCK'.
9. 24" PANEL ROOT BARRIERS SHALL BE PROVIDED FOR ALL TREES WITHIN 10' OF ANY CURB AND/OR HARDSCAPE PAVEMENT. INSTALL PER DETAIL ON SHEET L1.
10. ALL NON-TURF AND NON-BIOSWALE PLANTER AREAS SHALL RECEIVE A 3" LAYER OF BARK MULCH.
11. THE CONTRACTOR SHALL PROVIDE A SOILS REPORT PREPARED BY A QUALIFIED SOILS SPECIALIST AND SUBMIT TO THE OWNER FOR FINAL APPROVAL. SOIL SAMPLES SHALL BE COLLECTED AFTER PLACEMENT OF SOIL WITHIN PLANTER AREAS AFTER ROUGH GRADING OPERATIONS AND PRIOR TO THE INSTALLATION OF PLANT MATERIAL. SOIL SAMPLES SHALL BE SUFFICIENTLY NUMEROUS TO ACCOUNT FOR ANY SOIL VARIATIONS THAT MAY BE PRESENT ON THE SITE. THE FOLLOWING MINIMUM ITEMS SHALL BE INCLUDED IN THE ANALYSIS:
  - A. INFILTRATION RATE.
  - B. SOIL TEXTURE.
  - C. CATION EXCHANGE CAPACITY.
  - D. SOIL FERTILITY INCLUDING TESTS FOR NITROGEN, POTASSIUM, PHOSPHOROUS, PH, ORGANIC MATTER AND SPECIFIC CONDUCTANCE (E.C.).
12. PRIOR TO PLANTING, SOIL AMENDMENTS SHALL BE ADDED PER RECOMMENDATIONS OF THE SOILS REPORT. SOIL AMENDMENTS SHOWN ON THE PLANS ARE TO BE USED FOR BIDDING PURPOSES ONLY. THE RESULTS OF THE SOILS TESTS THE CONTRACTOR PERFORMS SHALL DETERMINE ACTUAL AMENDMENTS.
13. THE CONTRACTOR SHALL PROVIDE THE OWNER A STATEMENT IN WRITING STATING THAT THE SOIL WAS AMENDED PER THE APPROVED SOIL ANALYSIS PRIOR TO PLANTING. ANY PLANTING INSTALLED PRIOR TO SOIL AMENDMENTS WILL BE REQUIRED TO BE REMOVED AND REPLACED AT NO COST TO THE OWNER.
14. THE CONTRACTOR SHALL SUBMIT NAME OF SOIL TESTING LABORATORY AND A SUMMARY OF THE TEST TO BE PERFORMED TO OWNER FOR APPROVAL PRIOR TO COLLECTING SAMPLE.
15. REMOVE ALL DELETERIOUS MATERIALS, CONSTRUCTION DEBRIS, TRASH ETC FROM PLANTER AREAS PRIOR TO INSTALLATION OF PLANT MATERIAL. THE TOP SIX INCHES (6") OF THE SOIL SHALL BE FREE OF DEBRIS AND ROCKS THAT ARE GREATER THAN ONE INCH (1") IN DIAMETER.

PLANT LEGEND

SYM	BOTANICAL/ COMMON NAME	SIZE	QTY	REMARKS
TREES				
	LAGERSTROEMIA INDICA 'DYNAMITE'/CRAPE MYRTLE	15 GAL	6	
	PYRUS CALLERYANA 'ARISTOCRAT'/ ORNAMENTAL PEAR	15 GAL	7	
SHRUBS				
	DIANELLA LITTLE REV / FLAX LILY	1 GAL	199	
	LANTANA MONTEVIDENSIS 'PURPLE'/ TRAILING LANTANA	1 GAL	69	
	NANDINA 'FIREPOWER' / DWARF HEAVENLY BAMBOO	5 GAL	153	
	PITTOSPORUM TENUIFOLIUM 'ELFIN' / COMPACT PITTOSPORUM	5 GAL	69	
	TULBAGHIA VIOLACEA / SOCIETY GARLIC	1 GAL	306	
LAWN				
	REMOVE EXISTING LAWN AND INSTALL NEW SOD LAWN. NOTE: ANY LAWN NOT BOUND BY HARDSCAPE SHALL BE INSTALLED WITH A 6" CONCRETE MOW CURB.	SOD		

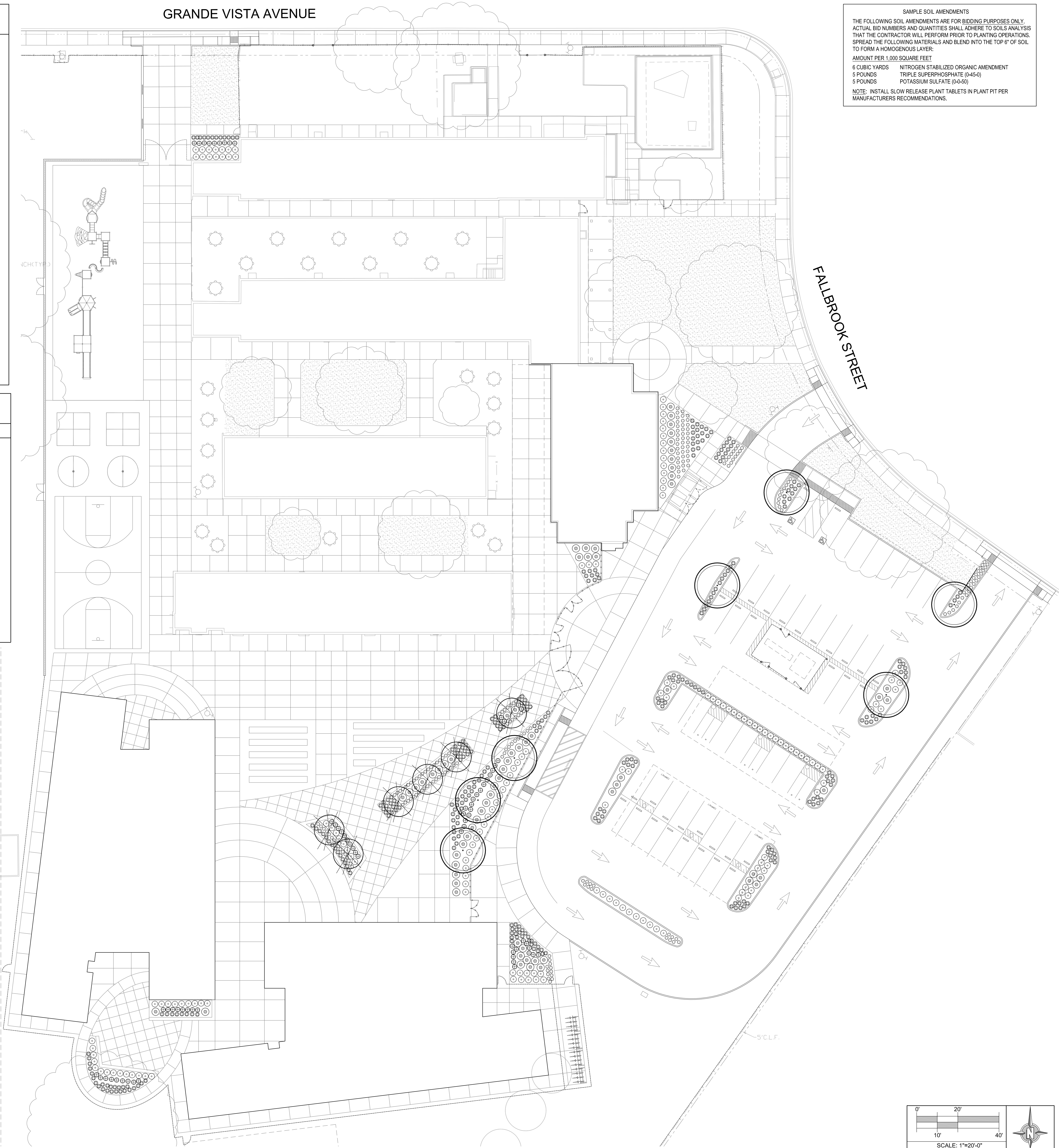


A- TREE PLANTING DETAIL  
NTS



B- SHRUB PLANTING DETAIL  
NTS

GRANDE VISTA AVENUE



SAMPLE SOIL AMENDMENTS

THE FOLLOWING SOIL AMENDMENTS ARE FOR BIDDING PURPOSES ONLY. ACTUAL BID NUMBERS AND QUANTITIES SHALL ADHERE TO SOILS ANALYSIS THAT THE CONTRACTOR WILL PERFORM PRIOR TO PLANTING OPERATIONS. SPREAD THE FOLLOWING MATERIALS AND BLEND INTO THE TOP 6" OF SOIL TO FORM A HOMOGENOUS LAYER:

AMOUNT PER 1,000 SQUARE FEET

6 CUBIC YARDS	NITROGEN STABILIZED ORGANIC AMENDMENT
5 POUNDS	TRIPLE SUPERPHOSPHATE (0-45-0)
5 POUNDS	POTASSIUM SULFATE (0-0-50)

NOTE: INSTALL SLOW RELEASE PLANT TABLETS IN PLANT PIT PER MANUFACTURERS RECOMMENDATIONS.

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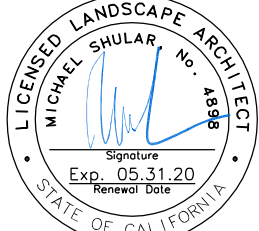
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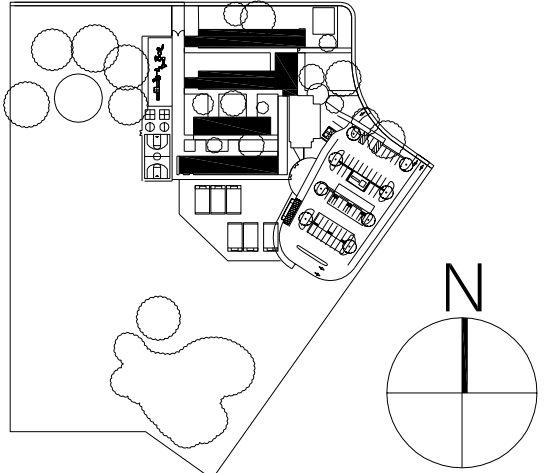
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KEY PLAN



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DSA SUBMITTAL

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PLANTING  
PLAN

Date  
05/20/19

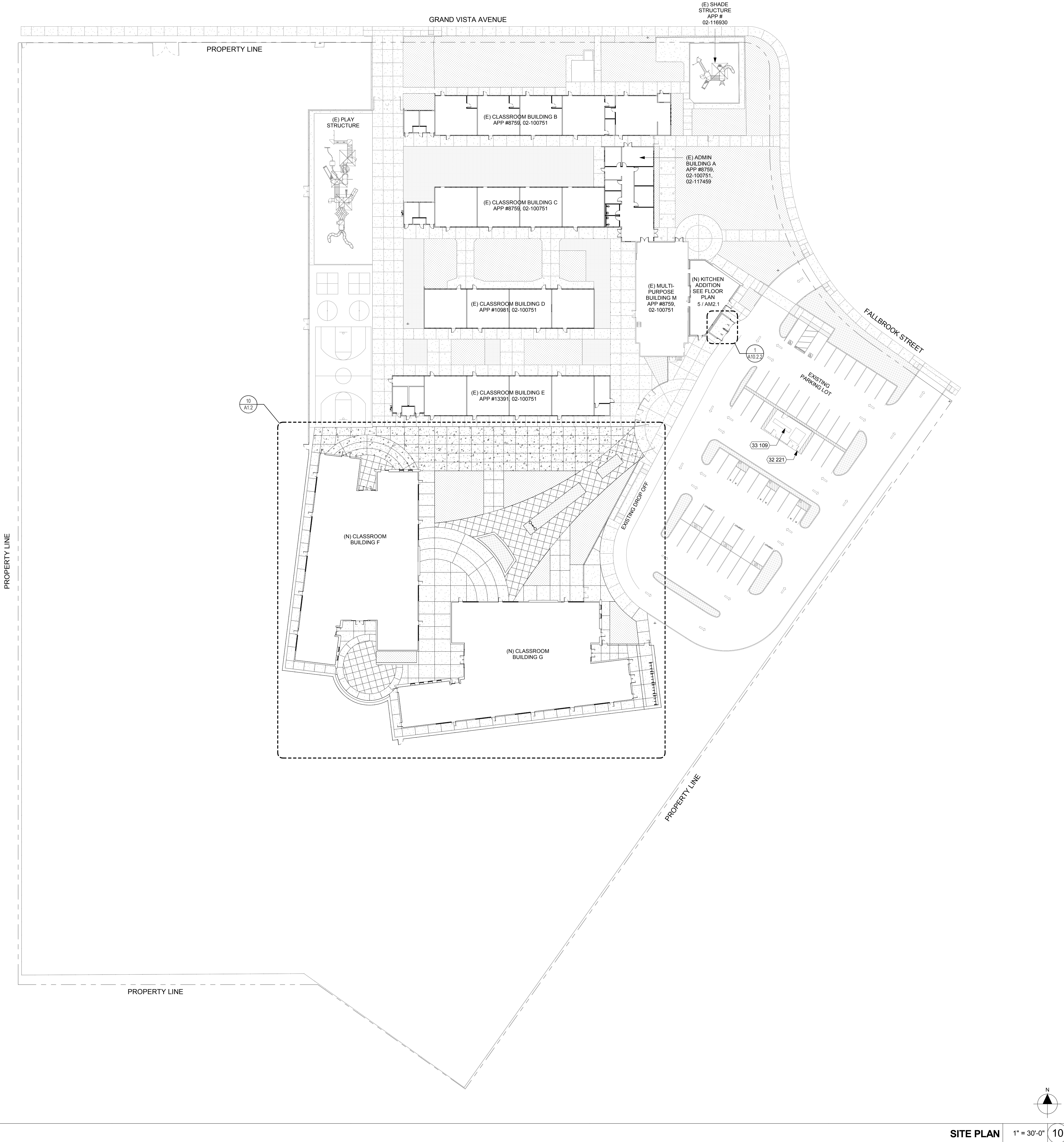
Scale  
AS NOTED

Project Number  
19003.1

Drawing Number

L3





## KEY NOTES

NUMBER	NOTE
32 221	(E) FENCING
33 109	(E) OUTDOOR MAIN SERVICE SWITCHBOARD (SEE ELECTRICAL DWGS.)

## GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR 6'-0" HIGH TEMPORARY CONSTRUCTION BARRIER WITH VISION SCREEN AT STAGING, STORAGE AND CONSTRUCTION AREA WITH SIGNAGE EVERY 20'-0" TO WARN OF CONSTRUCTION AREA. CONTRACTOR SHALL ACCESS THE SITE FROM \_\_\_\_\_ ANY DAMAGE TO FIRE LANE WILL BE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO REPAIR BACK TO EXISTING CONDITIONS ALL LAYDOWN AREAS AT THE END OF CONSTRUCTION. THIS INCLUDES LANDSCAPE AREAS AND ANY BROKEN SPRINKLERS, VALVE BOXES, CONCRETE, ASPHALT, ETC. CONTRACTOR SHALL REPLACE, RECONSTRUCT AND REPAIR ALL EXISTING WORK THAT IS IMPACTED, DAMAGED, OR DESTROYED AS A RESULT OF ANY CONTRACTOR WORK INCLUDING, BUT NOT LIMITED TO, HARDSCAPING, SIDEWALKS, IRRIGATION SYSTEMS, LANDSCAPING, LAWNS, STRUCTURES AND UTILITIES - ALL TO THE SATISFACTION OF THE DISTRICT.
- WHERE ASPHALT OR CONCRETE IS BEING REPAATCHED, CONTRACTOR SHALL PROVIDE EVEN AND STRAIGHT LINE CUTS WITH 2-FOOT STRAIGHT SLURRY SEAL SURFACE PATCH ON BOTH SIDES OF CUT.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON SITE TO AVOID EXISTING DUCTS, PIPING OR CONDUITS, ETC., AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHERE OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
- GATES IN PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS WITH PROPER LEVER HARDWARE AND KICK PLATES.

## LEGEND

	6" CONCRETE OVER 6" CLASS II AGGREGATE BASE PER CIVIL DRAWINGS
	5" CONCRETE OVER 4" CLASS II AGGREGATE BASE PER CIVIL DRAWINGS
	5" CONCRETE OVER 4" CLASS II AGGREGATE BASE PER CIVIL DRAWINGS. SCORING TO BE DIAGONAL AT 5' O.C. EACH WAY
	LANDSCAPING. SEE LANDSCAPE DRAWINGS
	PROPERTY LINE
	LIMIT OF WORK
	LINE OF ROOF, SKYLIGHT, OR SOFFIT OVERHEAD - SHOWN DASHED
	FIRE HYDRANT

DSA STAMP

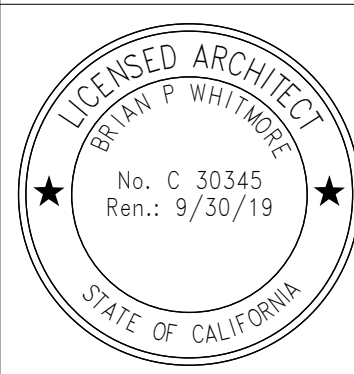
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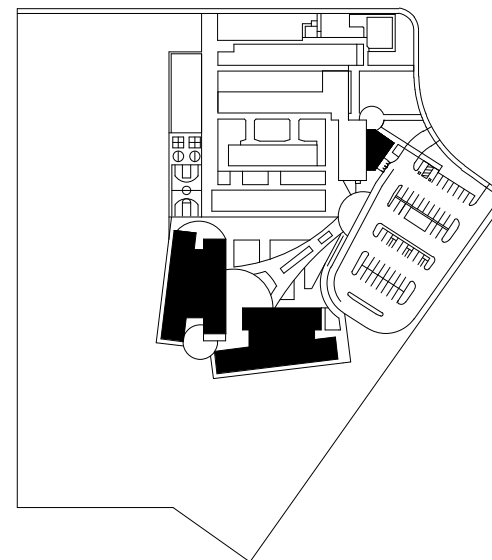
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DRAWING STATUS	DATE
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<input type="radio"/> DSA BACK CHECK	
<input type="radio"/> BIDDING	
<input type="radio"/> CONSTRUCTION	

KEY PLAN



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WEST SACRAMENTO, CA 95691

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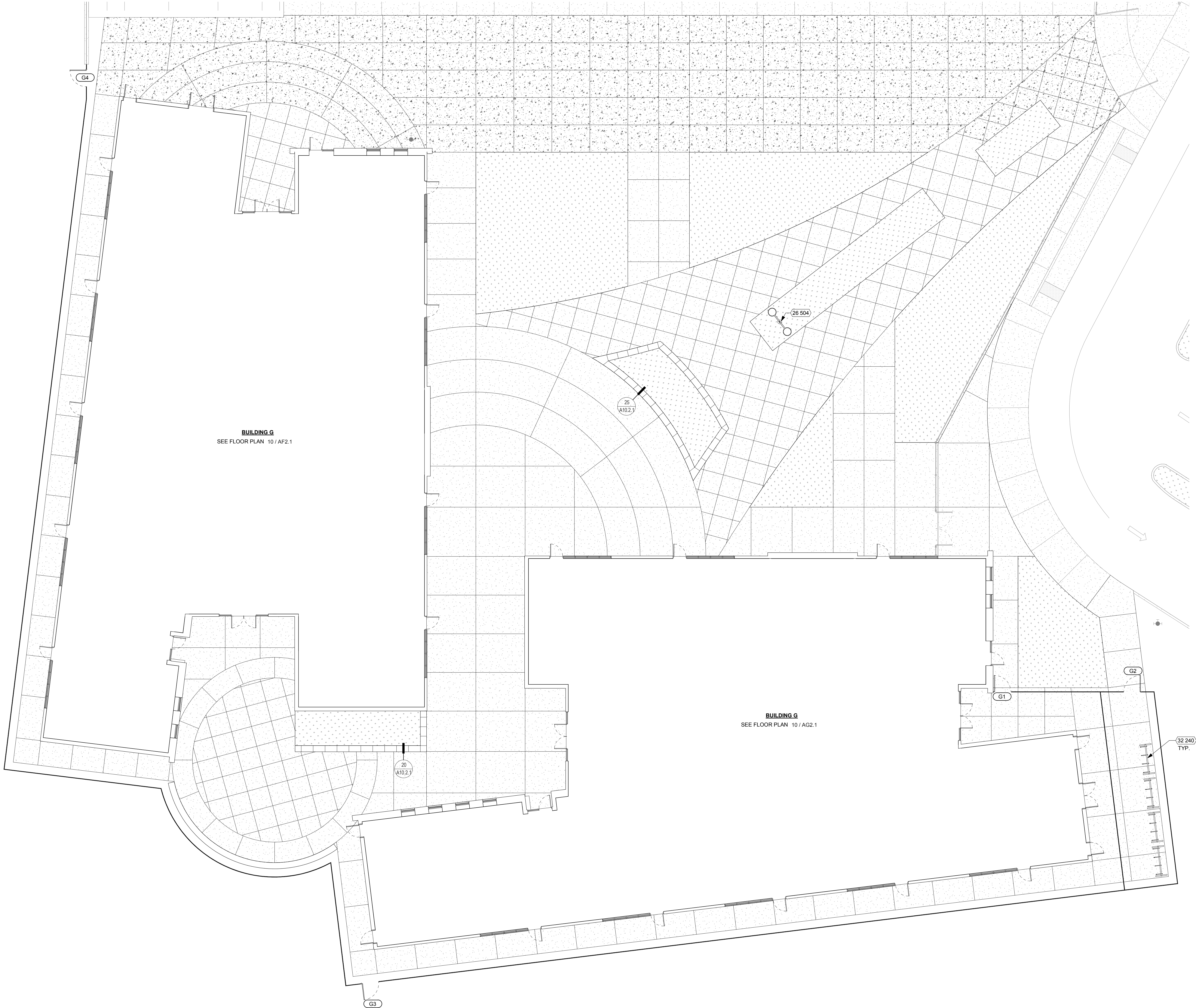
WESTMORE OAKS  
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NEW BLDGS F & G AND BLDG M  
ADDITION  
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SITE PLAN OVERALL

Date 05/20/2019	Project Number 19003
Scale 1" = 30'-0"	Drawing Number A1.1
Drawn AA	Checked AM



REF: 10 / A1.1



## KEY NOTES

NUMBER	NOTE
26 504	EXTERIOR LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
32 240	BICYCLE RACKS (SEE DETAIL 18/A10.2.1)

## GENERAL NOTES

- FOR HORIZONTAL CONTROL PLAN, SEE CIVIL DRAWINGS
- FOR GATE INFORMATION, REFER TO DOOR SCHEDULE

## LEGEND

	6" CONCRETE OVER 6" CLASS II AGGREGATE BASE PER CIVIL DRAWINGS
	5" CONCRETE OVER 4" CLASS II AGGREGATE BASE PER CIVIL DRAWINGS
	5" CONCRETE OVER 4" CLASS II AGGREGATE BASE PER CIVIL DRAWINGS, SCORING TO BE DIAGONAL AT 5' O.C. EACH WAY
	LANDSCAPING, SEE LANDSCAPE DRAWINGS

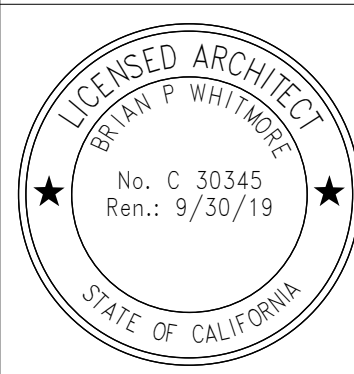
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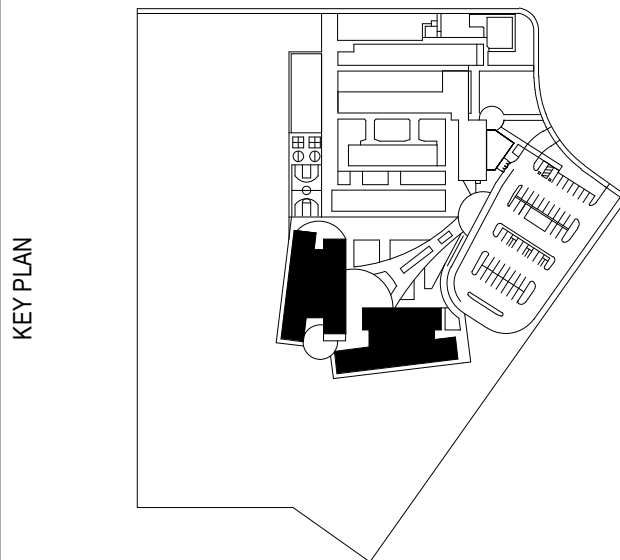
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ENLARGED SITE PLAN

Date

05/20/2019

Scale

As indicated

Drawn

AA

Project Number

19003

Drawing Number

A1.2

Checked

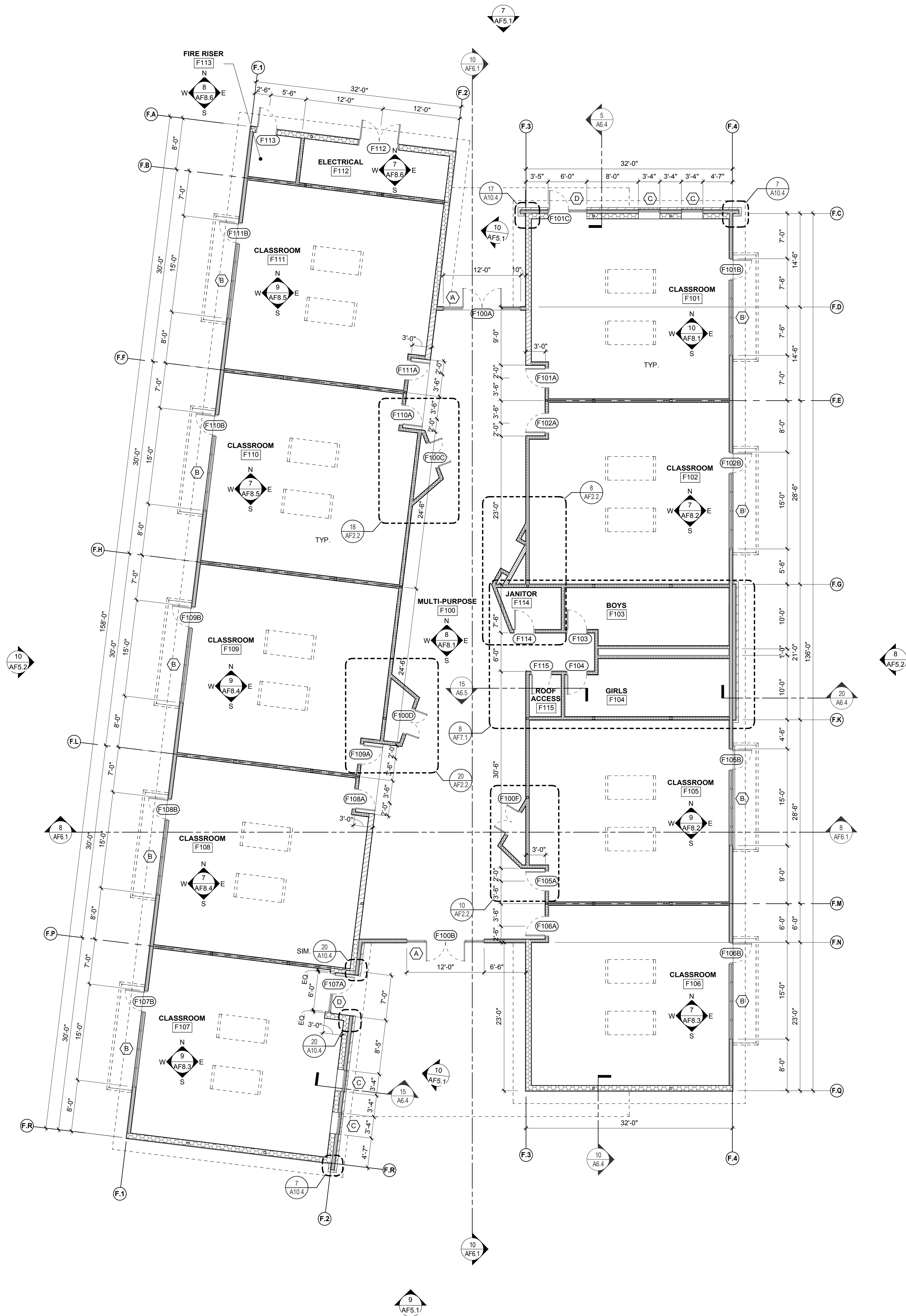
AM

ENLARGED SITE PLAN AT BUILDINGS F AND G

1" = 10'-0" 10



REF: 7 / AF5.1



## KEY NOTES

NUMBER NOTE

## GENERAL NOTES

1. PROVIDE ROOM NAME AND NUMBER WITH 1" HIGH TEXT AND GRADE #2 BRAILLE THROUGHOUT, SEE CODE ANALYSIS PLAN.
2. ALL WALLS SHALL HAVE R-19 BATT INSULATION, FULL HEIGHT.
3. SOUND INSULATION TO BE INSTALLED AT INTERIOR FULL HEIGHT WALLS. REFER TO STRUCTURAL DRAWINGS FOR HEADER SCHEDULE AND FRAMING DETAILS FOR OPENINGS IN INTERIOR AND EXTERIOR WALLS.
4. SEE STRUCTURAL DRAWINGS FOR FRAMING SIZE AND SPACING.
5. SEE STRUCTURAL DRAWINGS FOR COLUMN LOCATIONS AND SIZING.
6. REFER TO ROOM FINISH SCHEDULE FOR INTERIOR WALL FINISHES.
7. DIMENSIONS OF STUDS ARE FROM FACE OF STUD.
8. PAINT ALL INTERIOR WALLS.

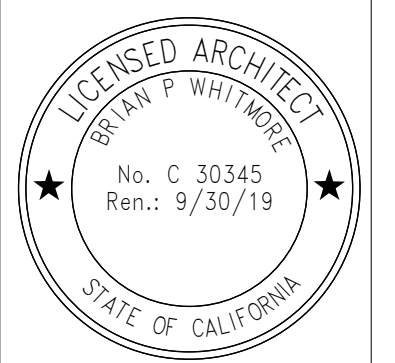
## LEGEND

- LINE OF ROOF, SKYLIGHT, OR SOFFIT OVERHEAD - SHOWN DASHED
- EXISTING CONSTRUCTION TO REMAIN (BUILDING M ONLY)
- FULL BRICK VENEER EXTERIOR WALL, SEE DETAIL 2 / A10.1
- EXTERIOR PLASTER 6" STUD WALL, SEE DETAIL 3 / A10.1
- EXTERIOR PLASTER 8" STUD WALL, SEE DETAIL 4 / A10.1
- EXTERIOR PLASTER 10" STUD WALL, SEE DETAIL 5 / A10.1
- INTERIOR 6" STUD WALL, SEE DETAIL 11 / A10.1
- INTERIOR 2-HOUR RATED WALL (BUILDING M ONLY), SEE DETAIL 10 / A10.1
- INTERIOR 6" STUD WALL WITH ACOUSTIC SEPARATION (BUILDING G ONLY), SEE DETAIL 8 / A10.1
- INTERIOR 8" STUD WALL, SEE DETAIL 16 / A10.1
- INTERIOR 10" STUD WALL, SEE DETAIL 12 / A10.1

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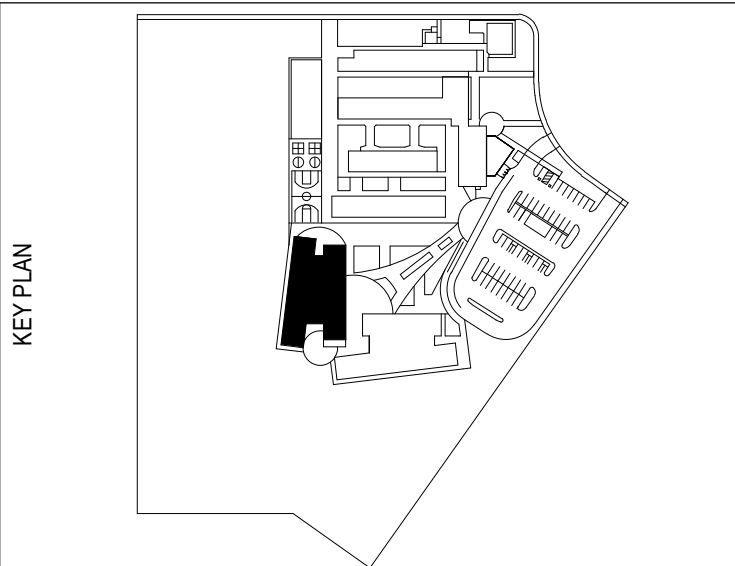
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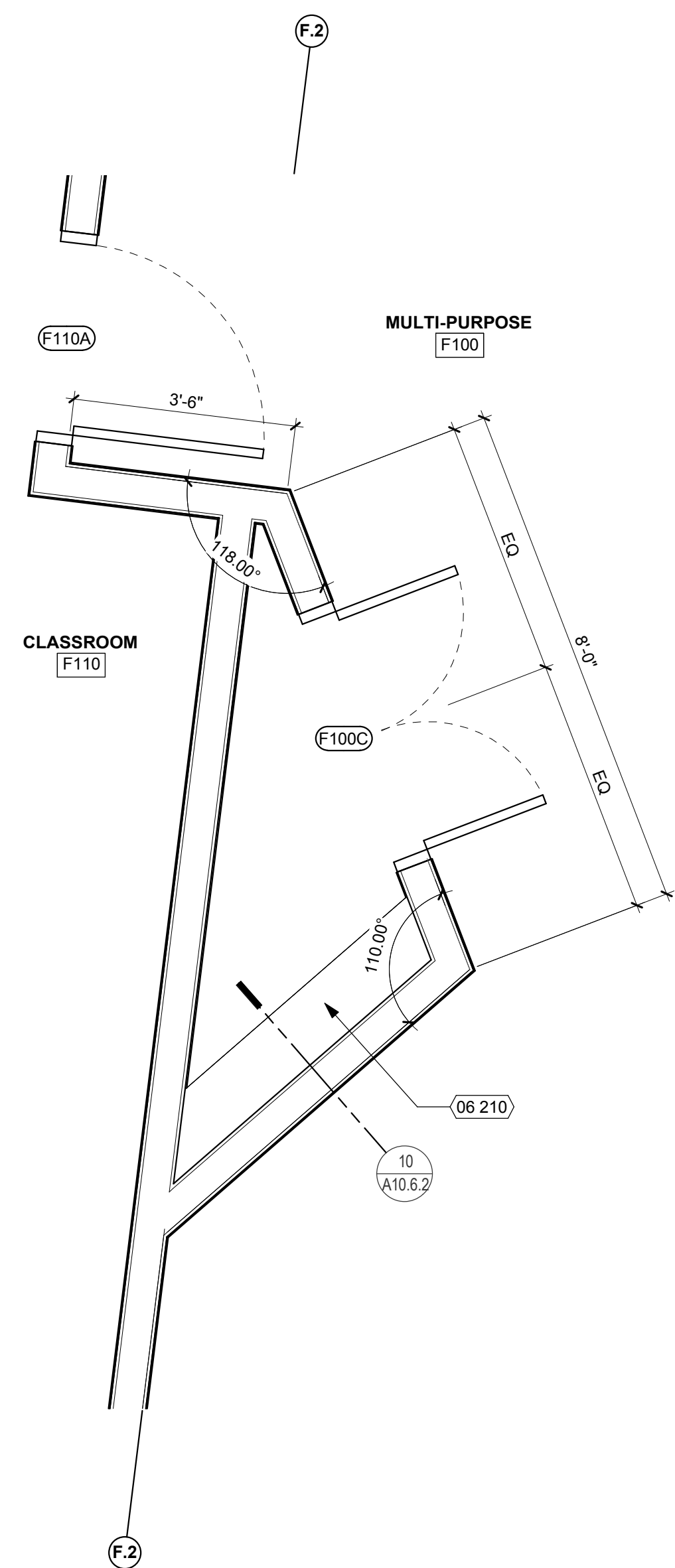
BUILDING F FLOOR PLAN

Date 05/20/2019	Project Number 19003
Scale 1/8" = 1'-0"	Drawing Number AF2.1
Drawn AA	Checked AM

BUILDING F - FLOOR PLAN

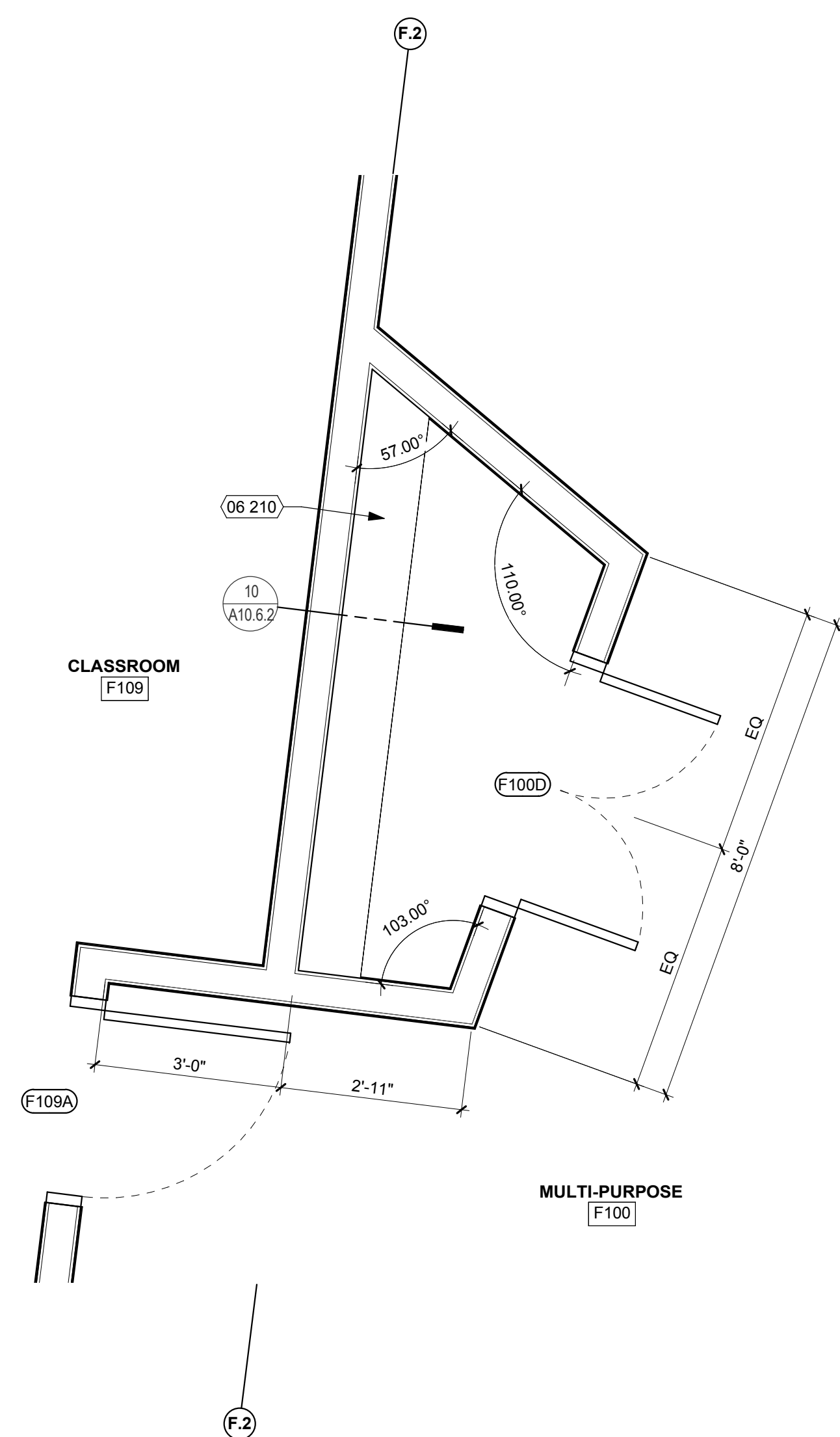
1/8" = 1'-0" 10





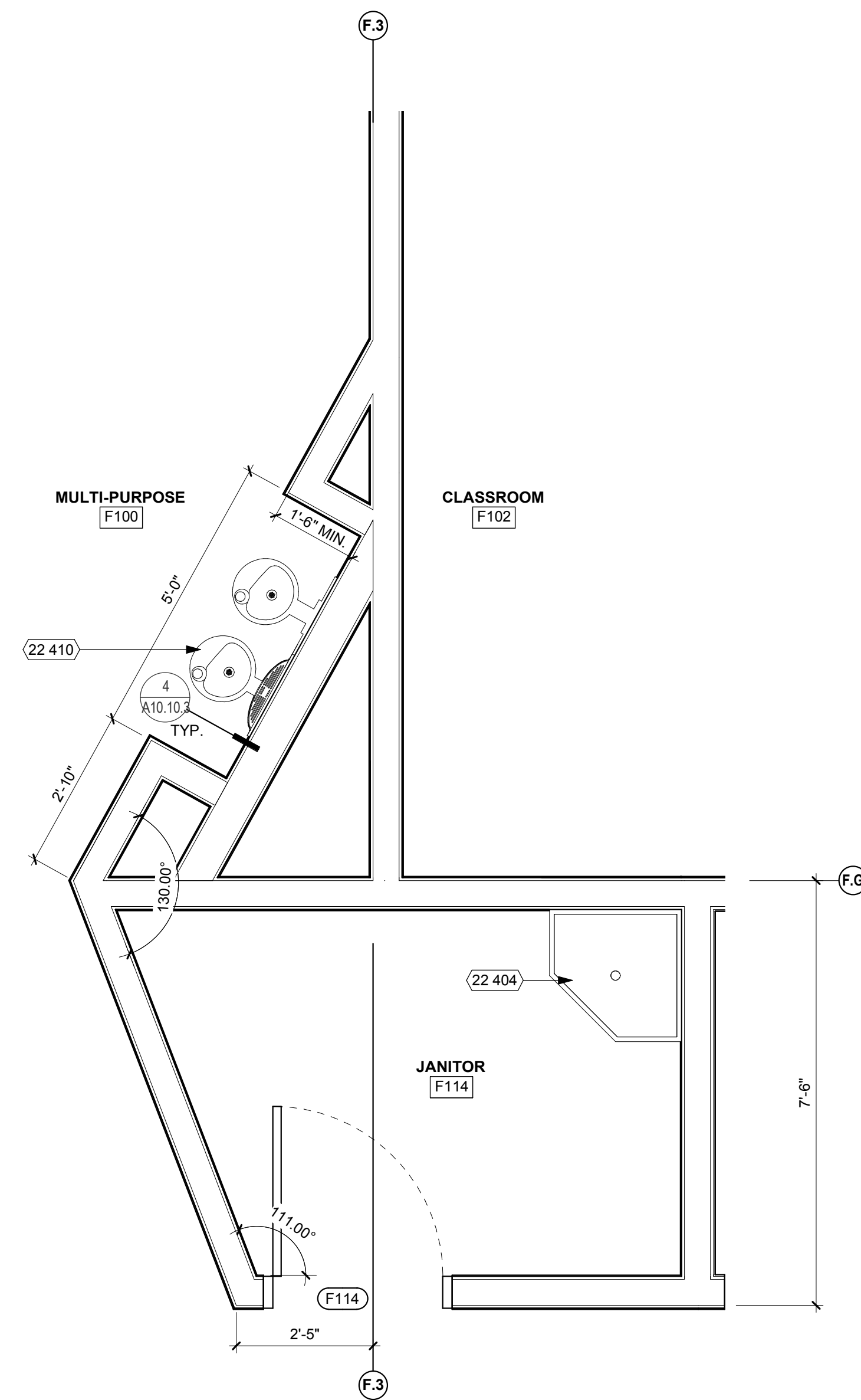
REF: 10 / AF2.1

**BUILDING F - ENLARGED PLAN**

$$1/2'' = 1'-0''$$


REF: 10 / AF2.1

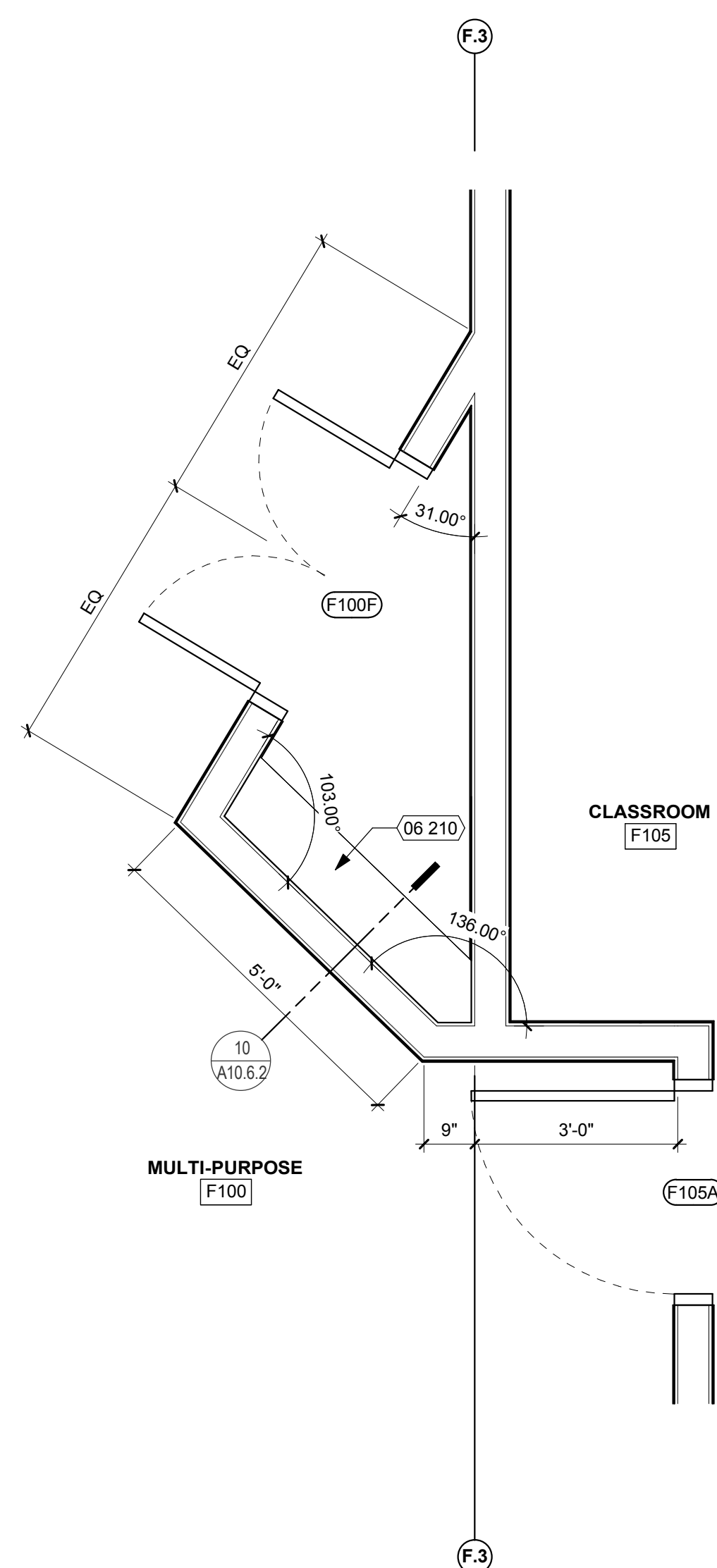
**BUILDING F - ENLARGED PLAN**

$$1/2'' = 1'-0''$$


REF: 10 / AF2.1

**BUILDING F - ENLARGED PLAN**

1/2" = 1'-0'



REF: 10 / AF2.1


**BUILDING F - ENLARGED PLAN**

$$1/2'' = 1'-0'$$

KEY NOTES	
NUMBER	NOTE
06 210	FIXED SHELVES, 12" WIDE
22 404	MOP SINK (SEE DETAIL 8/A10.10.3)
22 410	H-I-O DRINKING FOUNTAIN WITH BOTTLE FILLER (SEE DETAIL 23/A10.10.2)

## GENERAL NOTES

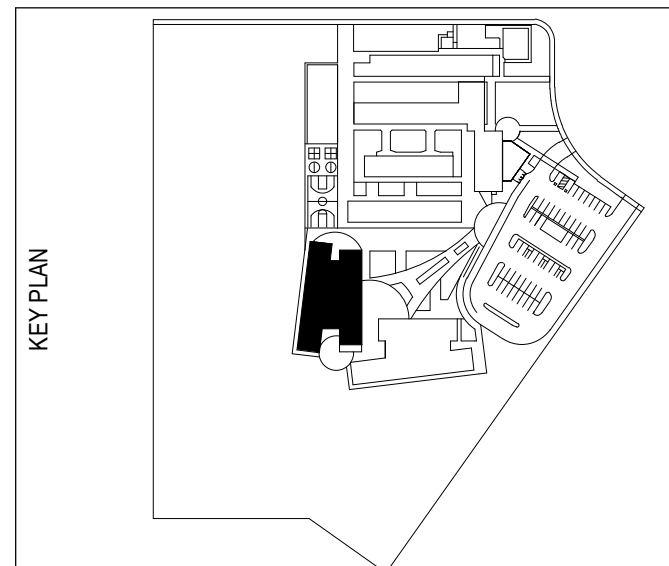
1. FOR WALL TYPES, REFER TO FLOOR PLAN
2. ALL DIMENSIONS ARE TO FACE OF STUD

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- |               |  |
|---------------|--|
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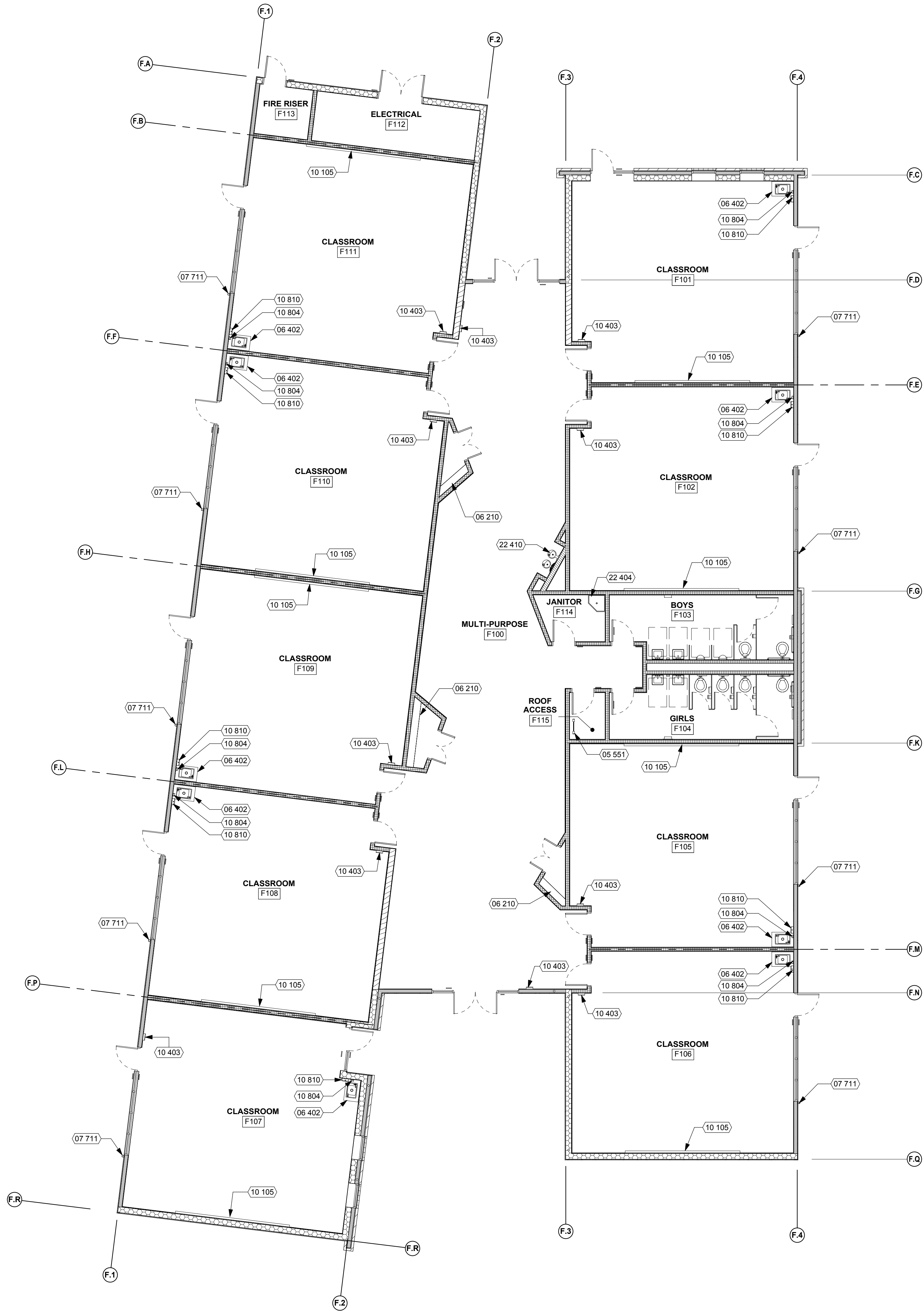
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BUILDING F ENLARGED  
PLANS

Date	Project Number
05/20/2019	19003
Scale	Drawing Number
As indicated	AF2.2
Drawn      Checked	
AA          AM	





KEY NOTES

NUMBER	NOTE
05 551	LAJDER TO ROOF HATCH (SEE DETAIL 2/A10.7.1)
06 210	FIXED SHELVES, 12" WIDE
06 402	ACCESSIBLE BASE CABINET W/ SINK (SEE DETAIL 8/A10.6.2)
07 711	DOWNSPOUT, PAINT TO MATCH ADJACENT WALL
10 105	16'-0" MARKER BOARD W/ TRAY (SEE DETAIL 22/A10.10.2)
10 403	FIRE EXTINGUISHER (2A-10B.C) IN SEMI-RECESSED CABINET (SEE DETAIL 25/A10.10.2)
10 804	SOAP DISPENSER
10 810	PAPER TOWEL DISPENSER
22 404	MOP SINK (SEE DETAIL 6/A10.10.3)
22 410	HULO DRINKING FOUNTAIN WITH BOTTLE FILLER (SEE DETAIL 23/A10.10.2)

GENERAL NOTES

- FOR SIGNAGE REFER TO CODE ANALYSIS PLAN.
- FOR CASEWORK DIMENSIONS REFER TO INTERIOR ELEVATIONS.
- FOR TACK BOARD LOCATIONS REFER TO INTERIOR ELEVATIONS.
- FOR RESTROOM FIXTURES, PARTITIONS, AND SPECIALTIES, REFER TO ENLARGED RESTROOM PLANS.

LEGEND

30" x 48" ACCESSIBLE CLEAR SPACE

60" DIAMETER ACCESSIBLE CLEAR SPACE

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ENGINEER

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KEY PLAN

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BUILDING F EQUIPMENT PLAN

Date  
05/20/2019

Project Number  
19003

Scale  
1/8" = 1'-0"

Drawing Number  
AF2.3

Drawn  
AA

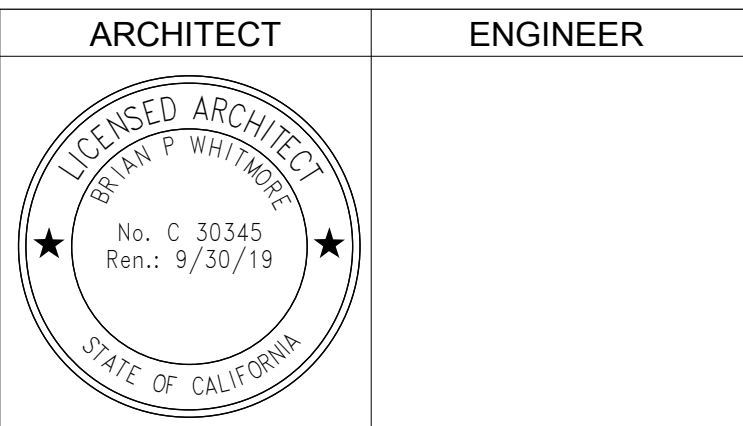
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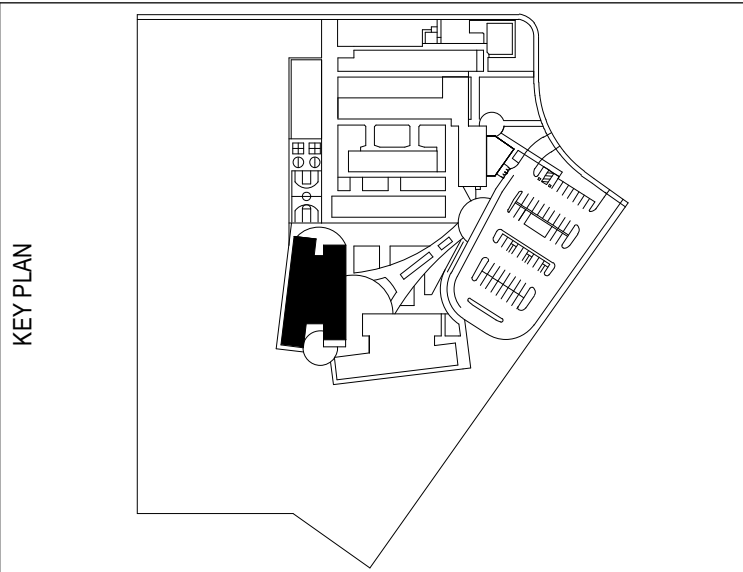
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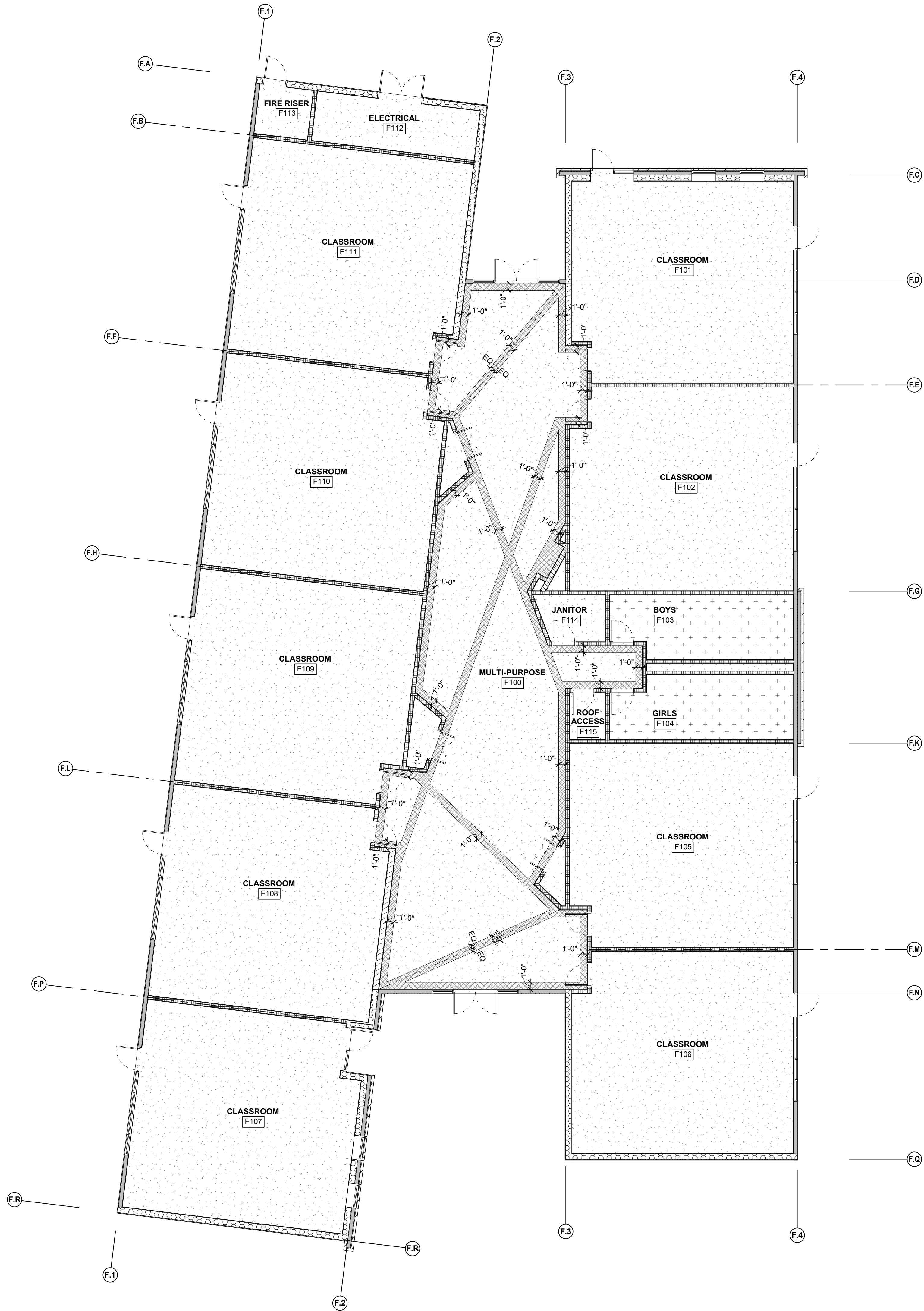
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BUILDING F EQUIPMENT  
PLAN

Date  
05/20/2019  
Project Number  
19003  
Scale  
1/8" = 1'-0"  
Drawing Number  
AF2.3  
Drawn  
AA  
Checked  
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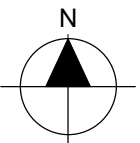




FINISH PLAN LEGEND

- EPX
- EC
- SC - 12" WIDE DECORATIVE PATTERN
- CPT (BUILDING G ONLY)
- DEPRESSED CONCRETE SLAB, PER STRUCTURAL DRAWINGS (BUILDING M ONLY)

NOTE:  
SEE FINISH LEGEND SCHEDULE FOR MATERIAL ABBREVIATION LEGENDS.



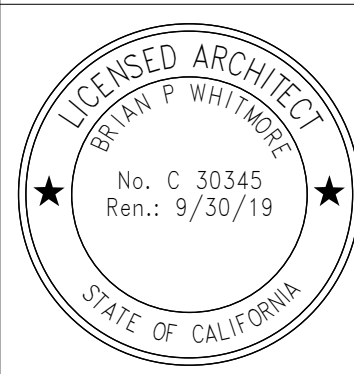
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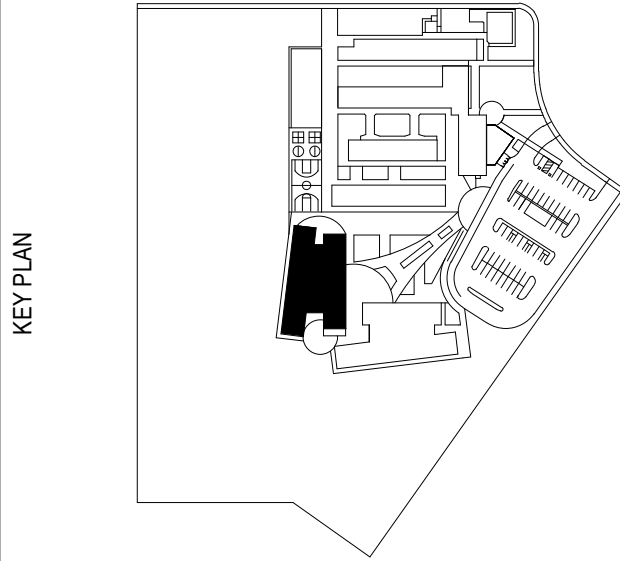
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BUILDING F FLOOR  
PATTERN PLAN

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

AA

Project Number

19003

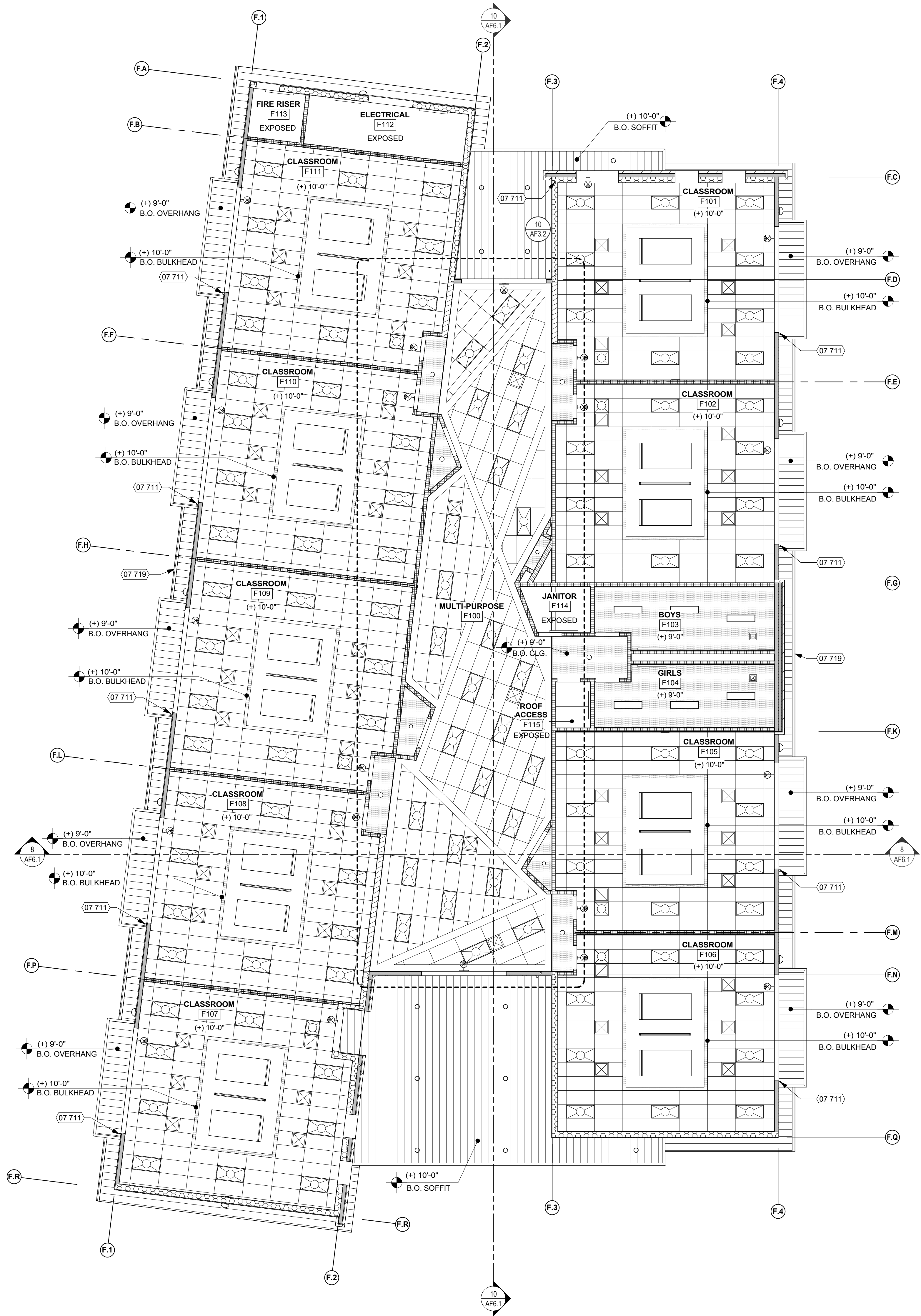
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AM





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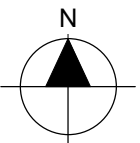
NUMBER	NOTE
07 711	DOWNSPOUT, PAINT TO MATCH ADJACENT WALL
07 719	GUTTER, PAINTED F5

GENERAL NOTES

- GENERAL
- ALL HEIGHTS ARE REFERENCED FROM FINISH FLOOR ELEVATIONS = 0'-0"
  - ACCESS DOORS TO BE INSTALLED TO SERVICE EQUIPMENT SHOWN IN CONTRACT DOCUMENTS. EXACT NUMBER AND LOCATION OF ACCESS PANELS IS NOT SHOWN. SEE DETAIL 4 / A10.9.3
  - PROVIDE ACCESS PANELS TO ENCLOSED AREAS ABOVE GYPSUM BOARD. CEILINGS, CENTER AND ALIGN TO LIGHT FIXTURES, AND OTHER CEILING FIXTURES PER PLAN.
  - CEILING SYSTEM SHOULD BE CENTERED WITHIN EACH ROOM AS WELL AS ALIGNED WITH THE STRUCTURAL GRID, U.O.N.
  - CEILING SYSTEM SHALL BE COORDINATED WITH THE LIGHTING & ELECTRICAL PLANS.
  - SKYLIGHT WELL ON THE CEILING PLAN SHOULD BE VERTICALLY ALIGNED WITH THE CORRESPONDING SKYLIGHT ON THE ROOF WHERE OCCURS.
  - PAINT GYP. BD. CEILINGS AND SOFFITS P-1 U.O.N. (PAINT FINISH TO BE SAME AT FACE AND UNDERSIDE OF SOFFITS.) REFER TO ROOM FINISH SCHEDULE FOR COLOR SELECTIONS.
  - PAINT EXPOSED CEILINGS, DUCTWORK AND EQUIPMENT PER FINISH SCHEDULE.
  - NO EXPOSED NAILS OR SCREWS ARE ALLOWED.
- EQUIPMENT
- SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SUPPORTS & BRACING. ELECTRICAL DEVICES ARE SHOWN FOR LOCATION IN RELATION TO LIGHT FIXTURES AND MECHANICAL DIFFUSERS IN SELECT AREAS. FOR FIXTURE INFORMATION SEE ELECTRICAL DRAWINGS.
  - SEE MECHANICAL AND PLUMBING DRAWINGS FOR DIFFUSERS AND PIPE CHASIS.
  - SEE FIRE PROTECTION DETAILS FOR PENETRATIONS THROUGH RATED WALLS, WHERE OCCURS.
  - SINGLE LIGHT FIXTURES IN GYP. BD. CEILINGS SHALL BE CENTERED IN ROOM.
  - LIGHT FIXTURE DIMENSIONS ARE TO CENTERLINE OF FIXTURE OR GROUP OF FIXTURES, U.O.N.
  - CENTER AND ALIGN SMOKE DETECTOR, DIFFUSERS, GRILLS, AND SIMILAR ITEMS IN CEILING TILE GRID AND ALIGN WITH LIGHT FIXTURES. SEE DETAIL 3 / A10.9.3
  - SEE ELECTRICAL DRAWINGS FOR LOW LEVEL EXIT SIGN LOCATIONS.

LEGEND

- 2x4 SUSPENDED ACOUSTICAL CEILING PANEL SYSTEM, SEE SHEET A10.9.1 AND A10.9.2 FOR ATTACHMENT TO STRUCTURE
- GYPSUM WALLBOARD CEILING, PAINT SURFACE, SEE DETAIL 2 / A10.9.3
- METAL PANEL SOFFIT, 12" FLAT PANEL
- SKYLIGHT
- LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS
- MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
- CEILING ACCESS PANEL
- ROOM NAME  
[A119]  
(+) 8'-0"
- ROOM TAG  
(+) 8'-0" = CEILING HEIGHT OF ROOM, U.O.N.
- ROOM NAME  
[A119]  
EXPOSED
- ROOM TAG  
EXPOSED = OPEN TO STRUCTURE
- EMERGENCY EXIT LIGHT



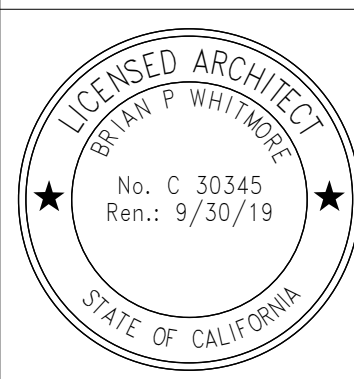
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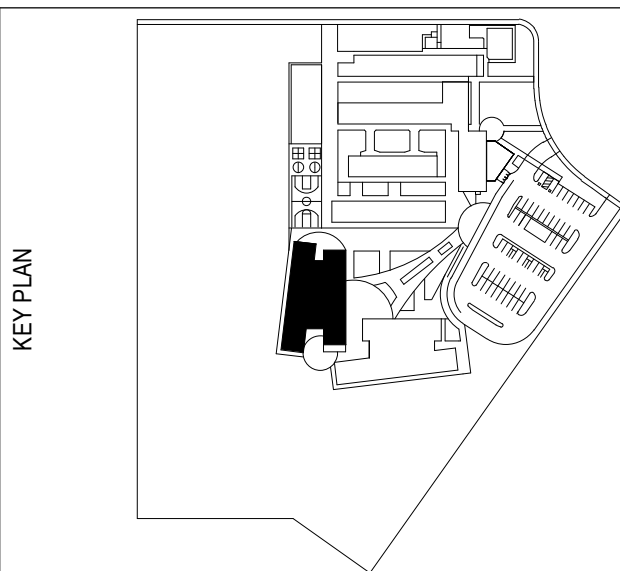
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BUILDING F REFLECTED  
CEILING PLAN

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

AA

Project Number

19003

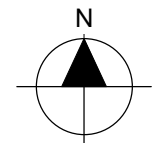
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
NUMBER	NOTE
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- NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
1. ALL GRAVEL MATERIAL SHALL BE 1/4" TO 3/8" GRAVEL.
2. MINIMUM ROOF INSULATION R-3.0 ALL LOCATIONS OF THE ROOF.
3. MINIMUM THICKNESS OF ROOF INSULATION TO BE 6" AT LOW POINT OF ROOF DRAIN PUMP.
4. FLASHING TERMINATIONS SHALL HAVE WATER-TIGHT SHEET METAL CLOSURES WITH WATERPROOF SELF-ADHERED MEMBRANE UNDERLAP.
5. NAILER THICKNESS SHALL MATCH ADJACENT INSULATION THICKNESS WITHIN 1/4" TOLERANCE.
- SLOPES AND DRAINAGE**
1. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS, ETC.) SHALL BE 1/4" / FT. BACK SLOPE, AS INDICATED AT ALL ROOF AREAS, INCLUDING VALLEYS, AND STEEPER AS REQUIRED TO MEET VALLEY SLOPE REQUIREMENTS.
2. CRACK SLOPE SHALL BE 1/4" / FT. BACK SLOPE.
3. MINIMUM ROOF SLOPE IN VALLEYS IS 1/4" / FT. ADJUST SLOPE OF CRICKETS TO PROVIDE MINIMUM SLOPE AT ALL LOCATIONS OF ROOF. TO PREVENT WINDING WATER TO ANY ONE LOCATION.
4. TAPER INSULATION UP DRAIN IN SUMPS MINIMUM OF 1/4" / FT. BUT NOT TO EXCEED 1" / FT. PROVIDE TAPERED FLIT TO CONFORM THE SUMP INSULATION TO THE THICKNESS OF INSULATION IN THE FIELD OF THE ROOF.
5. PROVIDE TAPERED CRICKET ON THE HIGH SIDE OF PENETRATIONS WIDER THAN 24".
6. MINIMUM SLOPE 1/4" / FT. TO DRAIN AT ALL LOCATIONS.
- EQUIPMENT**
1. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND OTHER FACILITY SERVICES DRAWINGS FOR EQUIPMENT, DUCTWORK, PENETRATIONS AND OTHER FEATURES NOT NOTED OTHERWISE.
2. PENETRATIONS, CURBS AND TERMINATIONS, INCLUDING THOSE FOR ELECTRICAL, MECHANICAL, PLUMBING, AND OTHER FACILITY SERVICES SHALL PROVIDE MINIMUM 8" VERTICAL BACE FLASHING ELEMENT ABOVE THE TOP OF THE ADJACENT ROOF SURFACE (NOT STRUCTURAL DECK).
3. ALL SUPPORTS AND TERMINATIONS SHALL BE ROUND SHAPES UNLESS SPECIFICALLY DETAILED OTHERWISE.
4. FOR CONDUIT THROUGH ROOF DETAIL, SEE ELECTRICAL DRAWINGS FOR TYPE, SIZE, AND CLEARANCES. SEE DETAIL 16 / A107.1.
5. FOR DUCT THRU WALL PENETRATION, SEE DETAIL 21 / A107.1.

ROOF DRAIN AND OVERFLOW, SEE DETAIL 

ROOF WALKWAY PADS 

MODIFIED BITUMEN ROOFING

ROOF CRICKET, TAPERED RIGID INSULATION,  
SLOPED TO DRAIN PER DETAIL 


SKYLIGHT, SEE DETAIL 

STANDING SEAM METAL ROOFING, 16" PLANK & PE  
PANEL, OVER COVER BOARD AND INSULATION  
(BUILDINGS F & G ONLY)

STANDING SEAM METAL ROOFING, 16" FLAT PANEL



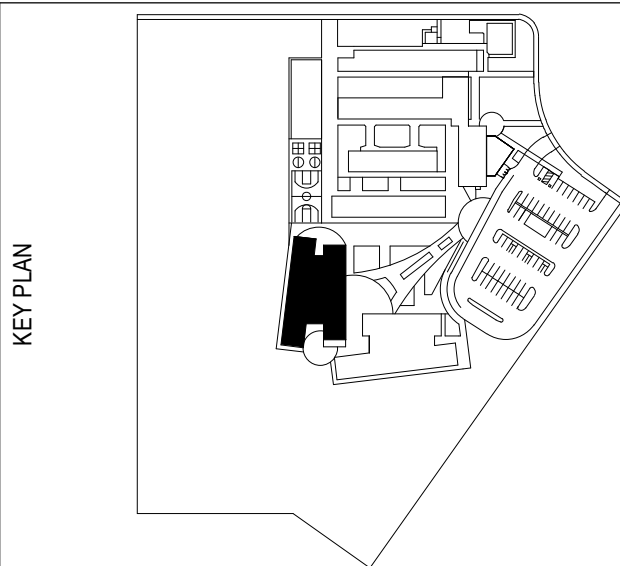
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ADDITION  
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## BUILDING F ROOF PLAN

Date \_\_\_\_\_

05/20/2019

Scale

$$1/8'' = 1'-0''$$

Project Number

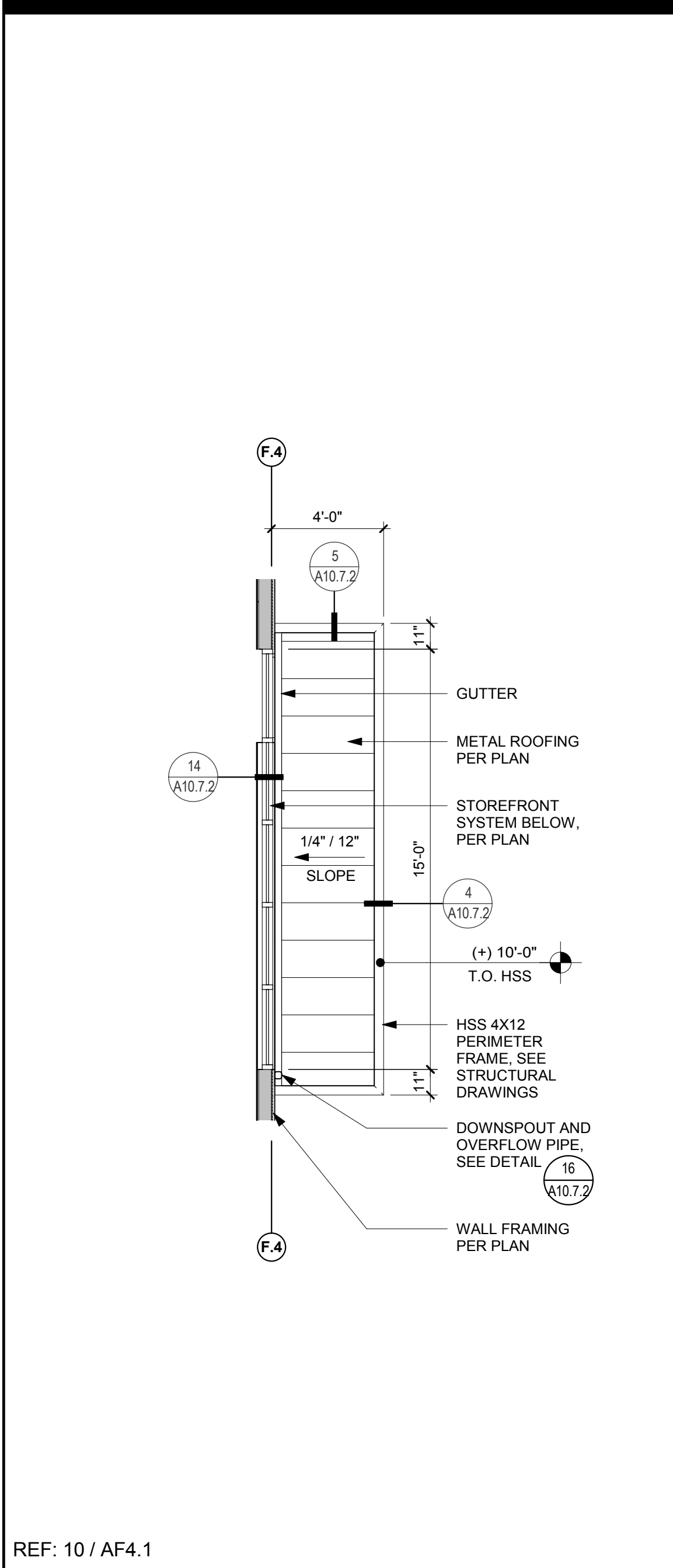
19003

Drawing Number

ΛΓ4

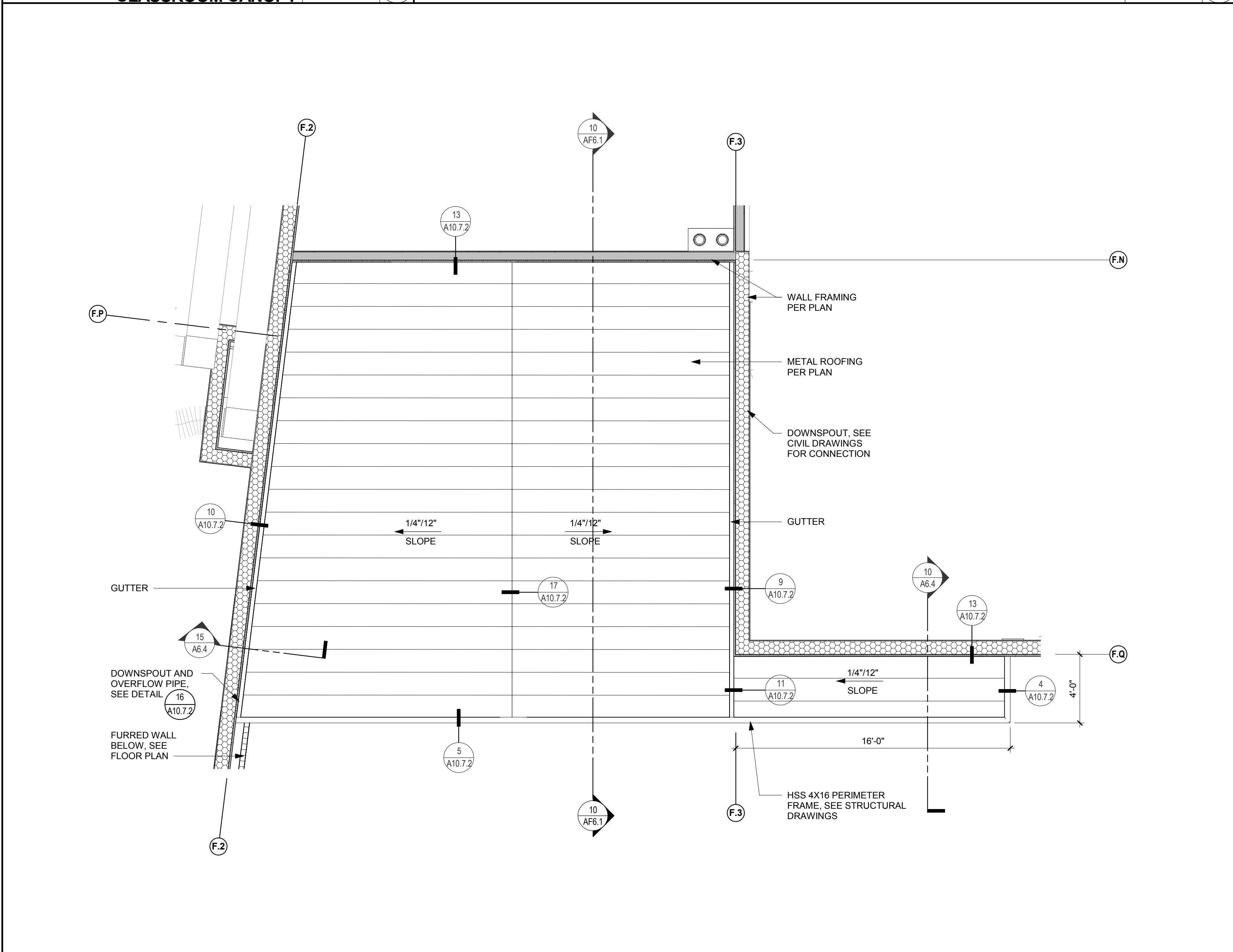
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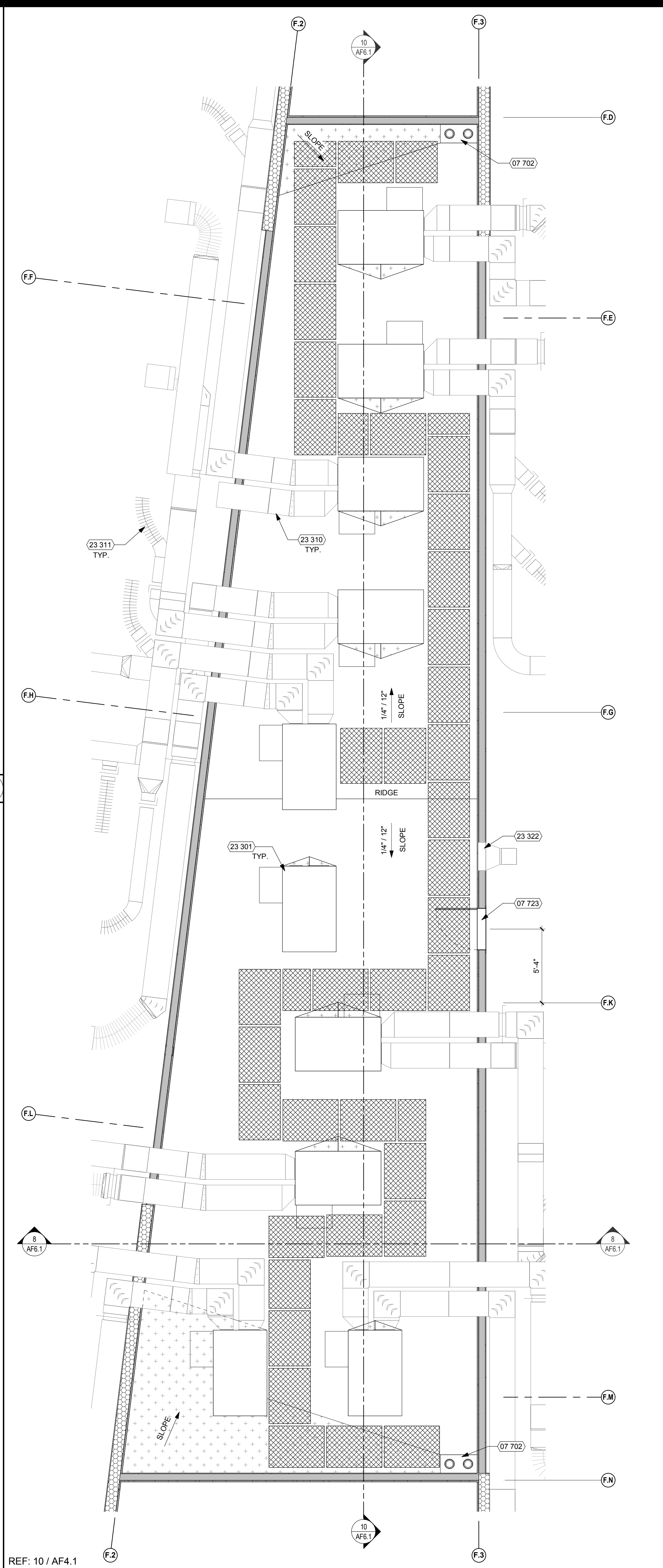


REF: 10 / AF4.1

**BUILDING F - TYPICAL CLASSROOM CANOPY** 1/4" = 1'-0" 28



**BUILDING F - ENLARGED ROOF PLAN AT SOUTH CANOPY** 1/4" = 1'-0" 21



REF: 10 / AF4.1

**BUILDING F - ENLARGED ROOF PLAN** 1/4" = 1'-0" 10

### KEY NOTES

NUMBER	NOTE
07 702	ROOF DRAIN
07 723	ROOF ACCESS DOOR, 36"x36"
23 301	ROOFTOP MECHANICAL UNIT (SEE MECHANICAL DWGS.)
23 310	EXPOSED DUCTWORK (SEE MECHANICAL DWGS.)
23 311	DUCTWORK (SEE MECHANICAL DWGS.)
23 322	MECHANICAL WALL LOUVER (SEE MECHANICAL DWGS.)

### GENERAL NOTES

GENERAL

- NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
- ALL ROOF MATERIALS TO BE CLASS A RATED.
- MINIMUM ROOF INSULATION R-30 ALL LOCATIONS OF THE ROOF.
- MINIMUM THICKNESS OF ROOF INSULATION TO BE 6" AT LOW POINT OF ROOF DRAIN SUMP.
- FLASHING TERMINATIONS SHALL HAVE WATER-TIGHT SHEET METAL CLOSURES WITH WATERPROOF SELF-ADHERED MEMBRANE UNDERLAYMENT.
- NAILER THICKNESS SHALL MATCH ADJACENT INSULATION THICKNESS WITHIN 1/4" TOLERANCE.

SLOPES AND DRAINAGE

- SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS, ETC.) SHALL BE 1/4" / FT. SLOPE MINIMUM AS INDICATED AT ALL ROOF AREAS, INCLUDING VALLEYS, AND STEEPER AS REQUIRED TO MEET VALLEY SLOPE CRITERIA.
- BACK SLOPES SHALL BE 2X THE PRIMARY SLOPE.
- MINIMUM ROOF SLOPE IN VALLEYS IS 1/4" / FT. ADJUST SLOPE OF CRICKETS TO PROVIDE MINIMUM SLOPE AT ALL LOCATIONS OF ROOF. TO PREVENT PONDING, DIRECT ALL ROOF WATER TO DRAINS. TAPER INSULATION UP FROM DRAIN IN SUMPS MINIMUM OF 1/4" / FT. BUT NOT TO EXCEED 1" / FT. PROVIDE TAPERED FILL TO CONFORM THE SUMP INSULATION TO THE THICKNESS OF INSULATION IN THE FIELD OF THE ROOF.
- PROVIDE TAPERED CRICKET ON THE HIGH SIDE OF PENETRATIONS WIDER THAN 24".
- MINIMUM SLOPE 1/4" / FT. TO DRAIN AT ALL LOCATIONS.

EQUIPMENT

- REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND OTHER FACILITY SERVICES DRAWINGS FOR EQUIPMENT, DUCTWORK, PENETRATIONS AND OTHER FEATURES NOT OTHERWISE SHOWN.
- PENETRATIONS, CURBS AND TERMINATIONS, INCLUDING THOSE FOR MECHANICAL, ELECTRICAL, PLUMBING AND OTHER FACILITY SERVICES SHALL PROVIDE MINIMUM 8" VERTICAL BASE FLASHING ELEVATION ABOVE THE TOP OF THE ADJACENT ROOF SURFACE (NOT STRUCTURAL DECK).
- EQUIPMENT SUPPORT PENETRATIONS SHALL BE ROUND SHAPES UNLESS SPECIFICALLY DETAILED OTHERWISE.
- FOR CONDUIT THROUGH ROOF DETAIL, SEE ELECTRICAL DRAWINGS.
- FOR TYPICAL PENETRATION CLEARANCES, SEE DETAIL 18 / A10.7.1.
- FOR DUCT THRU WALL PENETRATION, SEE DETAIL 21 / A10.7.1.

### LEGEND

	ROOF DRAIN AND OVERFLOW, SEE DETAIL 10 / A10.7.1
	ROOF WALKWAY PADS 13 / A10.7.1
	MODIFIED BITUMEN ROOFING
	ROOF CRICKET, TAPERED RIGID INSULATION, SLOPED TO DRAIN PER DETAIL 25 / A10.7.1
	SKYLIGHT, SEE DETAIL 2 / A10.7.3 (BUILDINGS F & G ONLY)
	STANDING SEAM METAL ROOFING, 16" PLANK & PENCIL RIBS PANEL, OVER COVER BOARD AND INSULATION (BUILDINGS F & G ONLY)
	STANDING SEAM METAL ROOFING, 16" FLAT PANEL

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KEY PLAN

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BUILDING F ENLARGED  
ROOF PLAN

Date  
05/20/2019

Scale  
As indicated

Drawn  
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AM

Project Number  
19003

Drawing Number  
AF4.2





GENERAL NOTES	
1.	GRAFFITI-RESISTANT COATINGS TO BE APPLIED ONLY TO MASONRY BRICK AND CONCRETE, NOT PLASTER - SEE SPECIFICATIONS

<b>LEGEND</b>	
---------------	--


EXTERIOR CEMENT PLASTER, PAINTED  
\$4 PER FINISH SCHEDULE

FOR TYPICAL DETAILS SEE:  
REVEAL DETAIL: 3 / A10.6.1  
CONTROL JOINT DETAIL: 4 / A10.6.1  
JOINT REQUIRED: 1 / A10.6.1

INSIDE CORNER: 5 / A10.6.1  
OUTSIDE CORNER: 10 / A10.6.1

FULL BRICK, STACK BOND, SEE  
TYPICAL ASSEMBLY DETAIL

----- BRICK EXPANSION JOINT



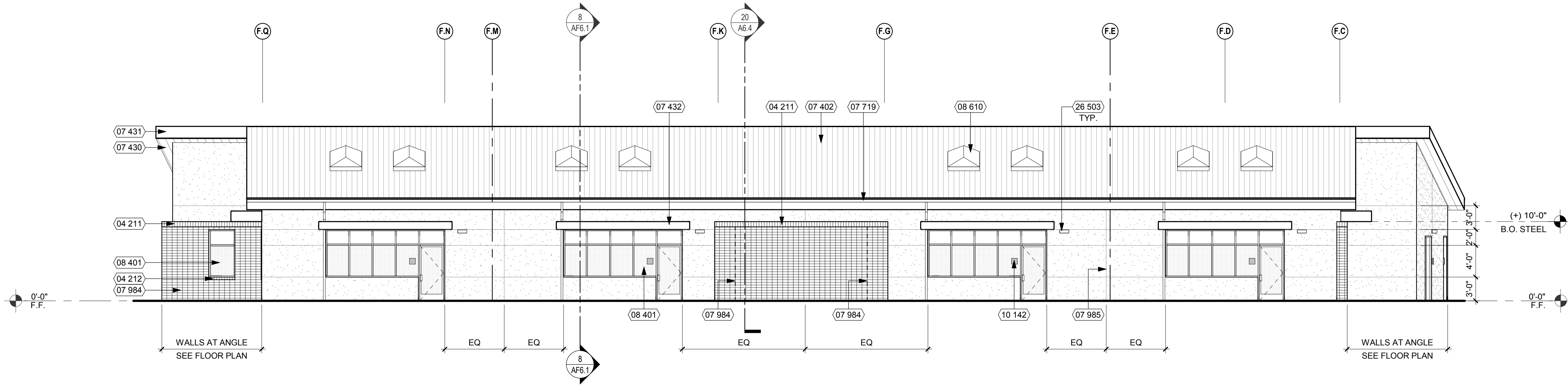
STANDING SEAM METAL ROOFING,  
SEE TYPICAL ASSEMBLY DETAIL  
(BUILDINGS F & G ONLY)

7  
410.7.2

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Date 05/20/2019	Project Number 19003
Scale 1/8" = 1'-0"	Drawing Number <b>AF5.1</b>
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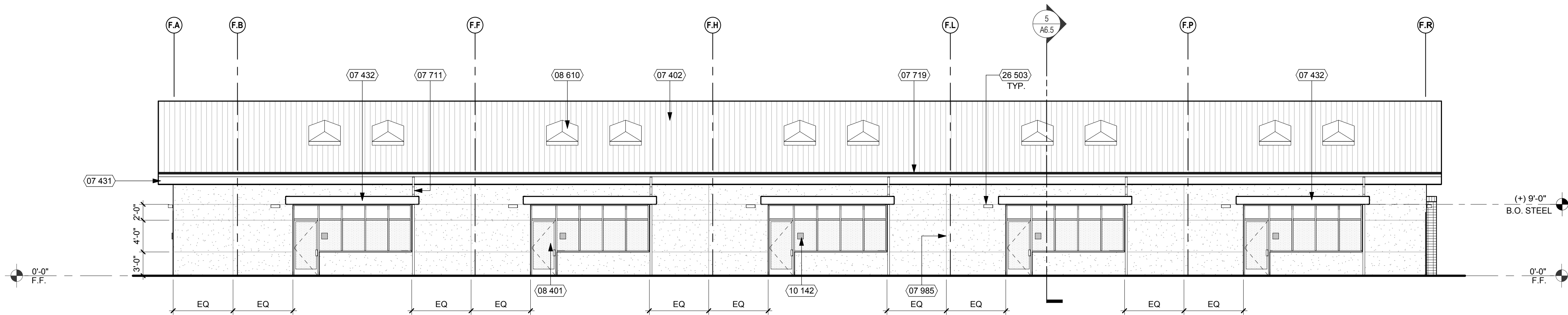




BUILDING F - EAST ELEVATION

1/8" = 1'-0"

8



BUILDING F - WEST ELEVATION

1/8" = 1'-0"

10

## KEY NOTES

NUMBER	NOTE
04 211	BRICK SAILOR COURSE
04 212	BRICK WINDOW SILL
07 402	METAL ROOFING
07 430	METAL SOFFIT
07 431	FASCIA, PAINTED P5
07 432	HSS CANOPY FASCIA, PAINTED P5
07 711	DOWNSPOUT, PAINT TO MATCH ADJACENT WALL
07 719	GUTTER, PAINTED P5
07 984	EXPANSION JOINT, BRICK EXPANSION JOINTS ARE REQUIRED 3'-0" MAX. FROM CORNERS AND @ 30'-0" O.C. MAX.
07 985	PLASTER CONTROL JOINT
08 401	STOREFRONT SYSTEM, PER WINDOW SCHEDULE
08 610	SKYLIGHT (SEE DETAIL 2/A10.7.3)
10 142	SIGNAGE PER CODE ANALYSIS PLAN
26 503	EXTERIOR WALL MOUNTED LIGHT FIXTURE (SEE ELECTRICAL DWGS.)

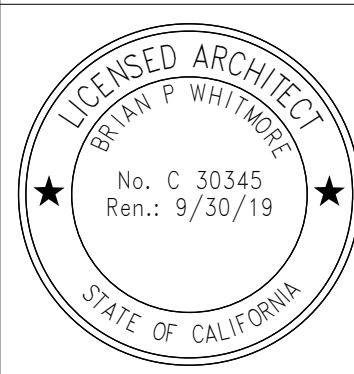
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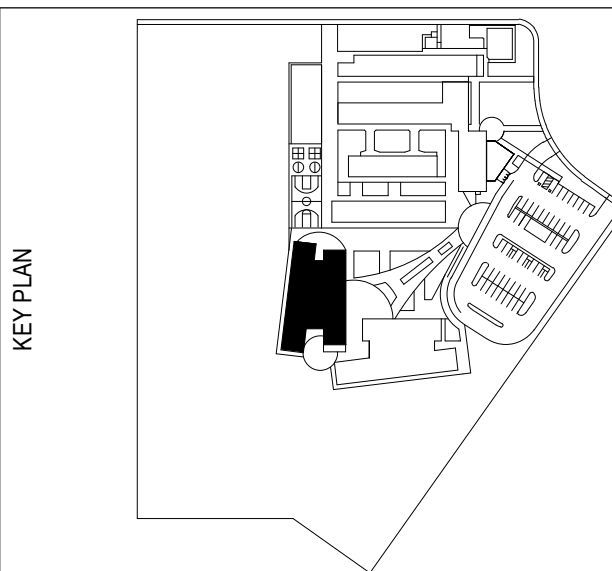
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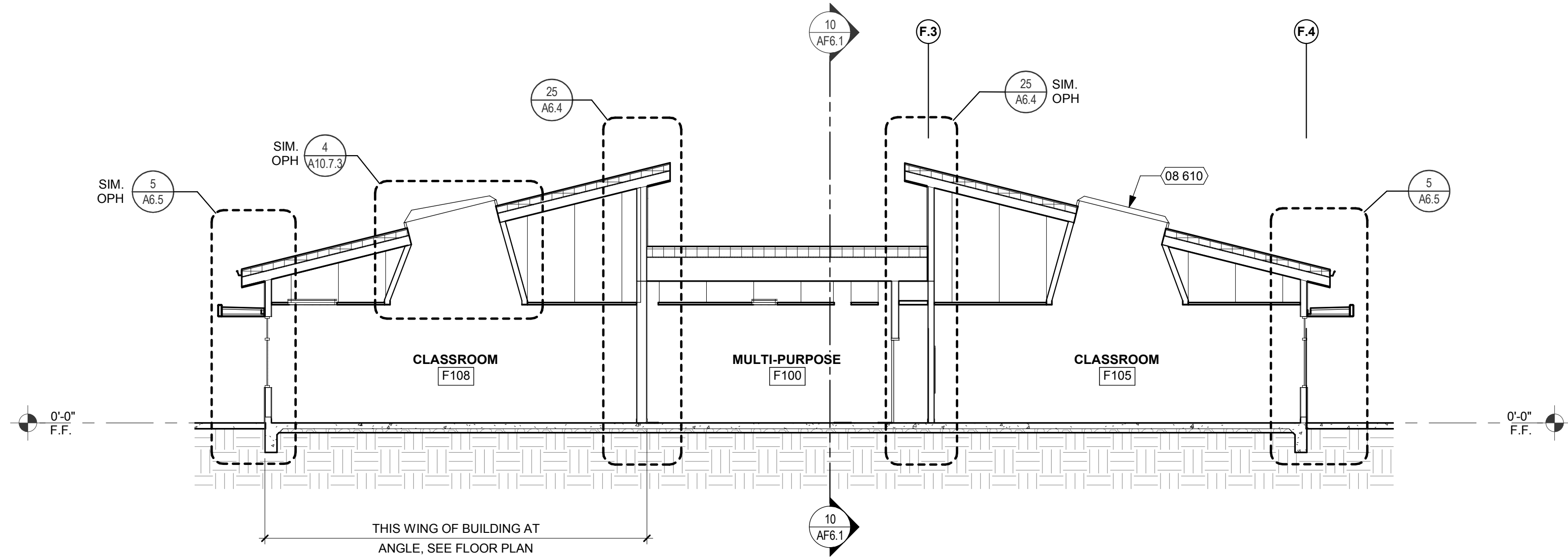
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BUILDING F EXTERIOR  
ELEVATIONS

Date 05/20/2019	Project Number 19003
Scale 1/8" = 1'-0"	Drawing Number AF5.2
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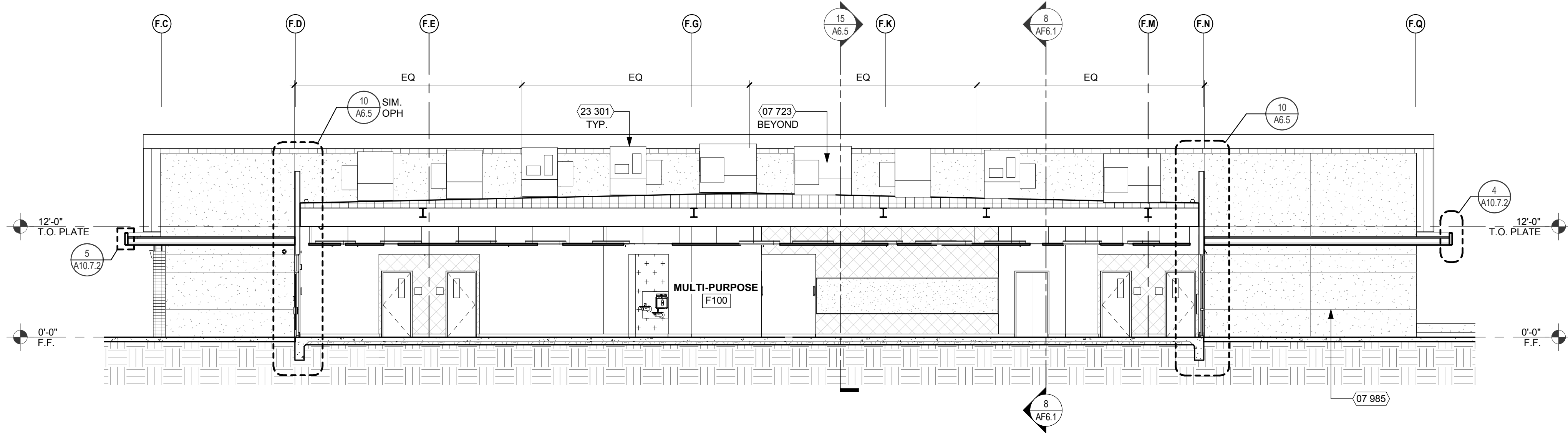


REF: 10 / AF2.1

BUILDING F - EAST/WEST BUILDING SECTION

1/8" = 1'-0"

8



REF: 10 / AF2.1

BUILDING F - NORTH/SOUTH BUILDING SECTION

1/8" = 1'-0"

10

KEY NOTES

NUMBER	NOTE
07 723	ROOF ACCESS DOOR, 36"x36"
07 985	PLASTER CONTROL JOINT
08 610	SKYLIGHT (SEE DETAIL 2/A10.7.3)
23 301	ROOFTOP MECHANICAL UNIT (SEE MECHANICAL DWGS.)

GENERAL NOTES

- FOR FINISH INFORMATION, REFER TO INTERIOR ELEVATIONS AND FINISH SCHEDULE.
- SEE REFLECTED CEILING PLANS FOR CEILING INFORMATION.
- SEE FLOOR PLANS FOR WALL TYPES.

LEGEND

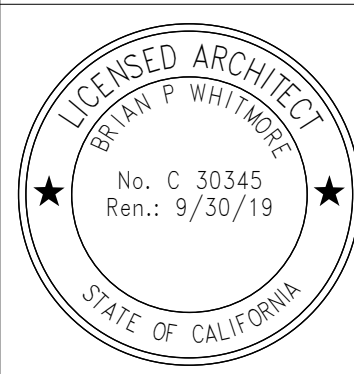
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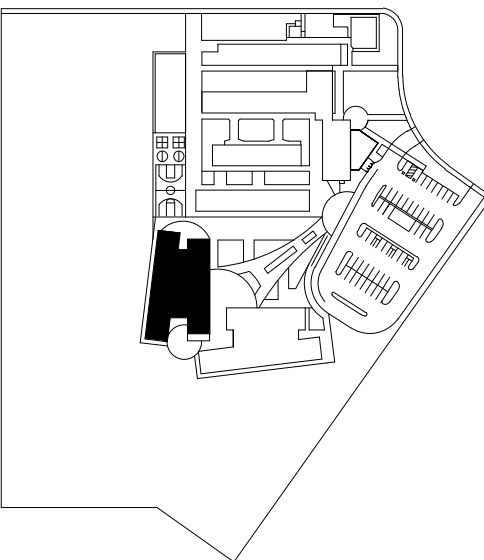
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BUILDING F BUILDING  
SECTIONS

Date

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Scale

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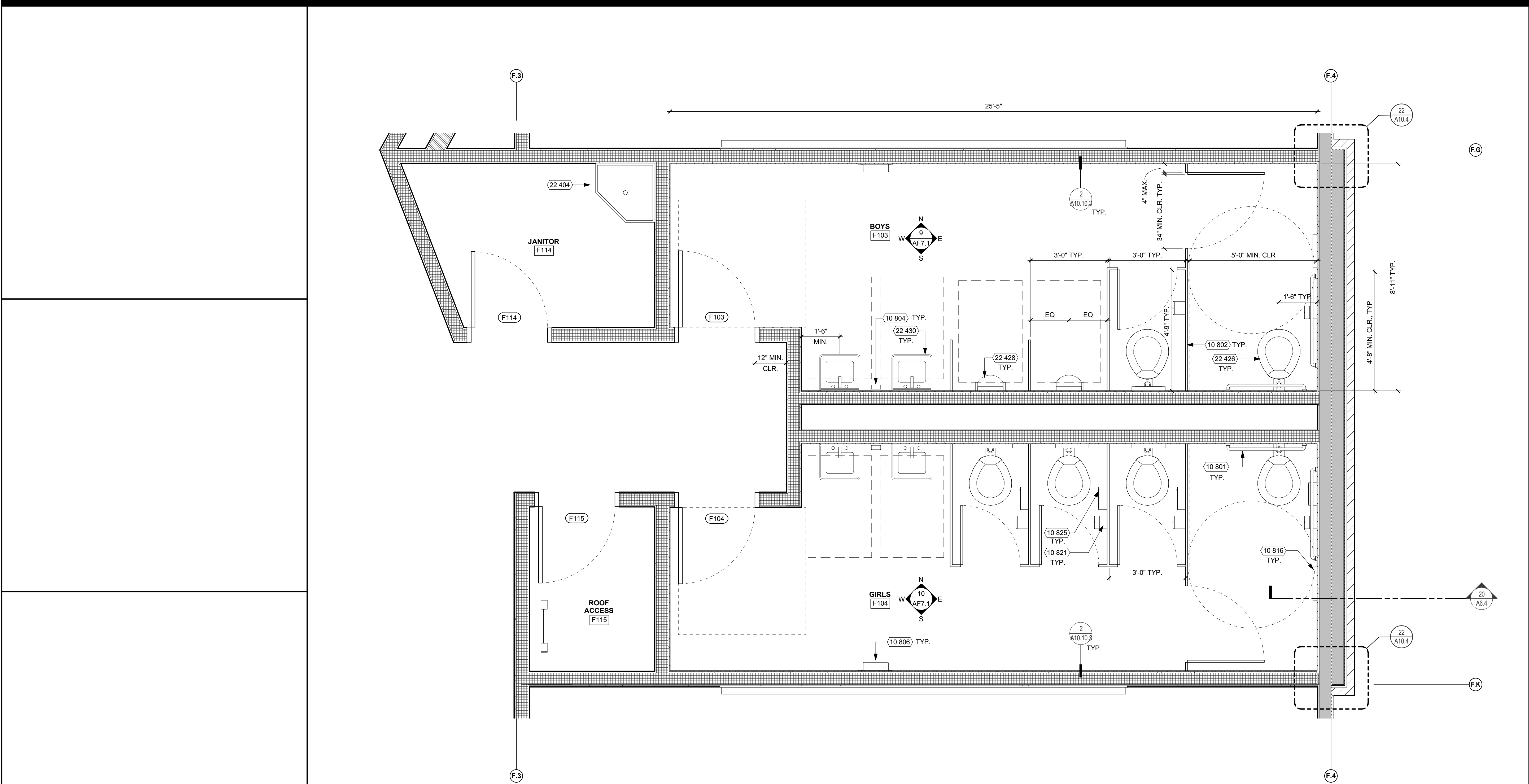
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Drawing Number

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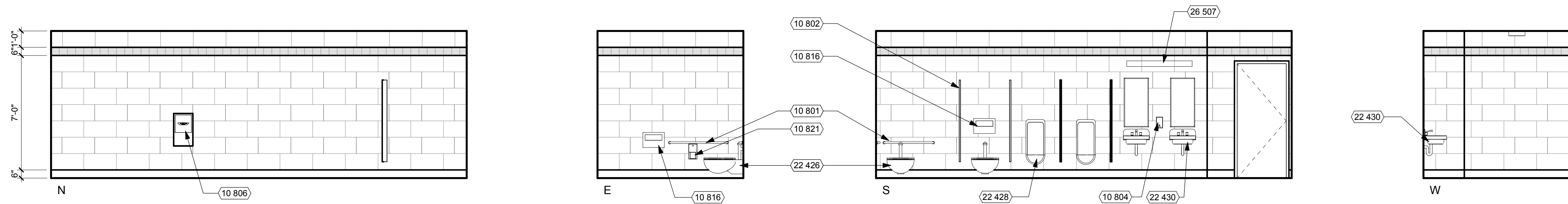


REF: 10 / AF2.1

BUILDING F - ENLARGED RESTROOMS FLOOR PLAN

1/2" = 1'-0"

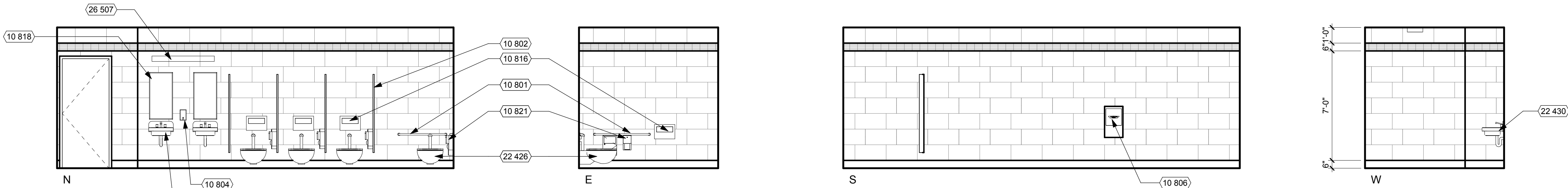
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F103-BOYS

1/4" = 1'-0"

9



F104-GIRLS

1/4" = 1'-0"

10

KEY NOTES

NUMBER	NOTE
10 801	ACCESSIBLE GRAB BAR (SEE DETAIL 11/A10.10.2)
10 802	TOILET PARTITION (SEE DETAIL 18/A10.10.2)
10 804	SOAP DISPENSER
10 806	ELECTRIC HAND DRYER
10 816	TOILET SEAT COVER DISPENSER
10 818	MIRROR
10 821	TOILET PAPER DISPENSER
10 825	SANITARY NAPKIN DISPOSAL
22 404	MOP SINK (SEE DETAIL 6/A10.10.3)
22 426	ACCESSIBLE WATER CLOSET
22 428	ACCESSIBLE URINAL
22 430	LAVATORY
26 507	WALL MOUNT LIGHT FIXTURE

GENERAL NOTES

- GENERAL
- DIMENSIONS
    - ALL MINIMUM CLEARANCE DIMENSIONS FOR PLUMBING FIXTURES ARE FROM FACE OF WALL FINISH TO CENTER OF FIXTURE, U.O.N.
    - ALL DIMENSIONS MARKED "MIN. CLR." OR "CLR." ARE TO/ FROM FACE OF WALL FINISH (F.O.F.)
  - SEE FINISH PLAN FOR INTERIOR FINISHES.
  - PROVIDE GLASSMATE BACKER BOARD AT ALL TILED WALLS AND WALLS WITHIN 48" OF ANY PLUMBING FIXTURE.
  - ALL DRINKING FOUNTAIN ALCOVES TO BE FINISHED WITH WATER RESISTANT WALL MATERIAL. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS.
  - ALL FLOOR SLOPES IN RESTROOMS ARE NOT TO EXCEED 1:48 IN ANY DIRECTION.
  - FOR FLOOR DRAIN, SEE DETAIL 1 / A10.10.3
- ACCESSORIES
- ALL RESTROOM FIXTURES AND ACCESSORIES MOUNTING HEIGHTS AND LOCATIONS TO USE ADULT DIMENSIONS.
  - FOR TYPICAL RESTROOM ACCESSORY MOUNTING HEIGHTS, ACCESSIBLE DIMENSIONS, SEE SHEET A10.10.2
  - TOILET ACCESSORIES LOCATED ON OR WITHIN WALLS SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE (CBC SECTION 1210.2.2)
  - PLUMBING FIXTURES TO HAVE SOLID BLOCKING AS REQUIRED BY CODE, SEE DETAIL 29 / A10.10.1
  - FOR MOP SINK WITH BROOM RACK, SEE DETAIL 6 / A10.10.3
- STALLS AND PARTITIONS
- REGARDLESS OF STALL CONFIGURATION, A 48" LONG MINIMUM CLEARANCE FLOOR SPACE SHALL BE PROVIDED IN FRONT OF THE ACCESSIBLE WATER CLOSET.
  - ALL ACCESSIBLE TOILET PARTITION DOORS TO BE 34" WIDE MINIMUM AND ALL NON-ACCESSIBLE TOILET PARTITION DOORS SHALL NOT BE LESS THAN 2'-2".
  - PARTITION STILE WIDTHS SHALL NOT EXCEED 4".
  - FOR PARTITION DETAILS, SEE DETAIL 19 / A10.10.2
  - INSTALL (1) COAT HOOK CENTERED ON THE BACK OF EVERY STALL DOOR, 40" A.F.F. AT ACCESSIBLE STALLS AND 72" A.F.F. AT NON-ACCESSIBLE STALLS.
  - FLUSH VALVE TO BE LOCATED AT WIDE SIDE OF STALL/ SPACE.

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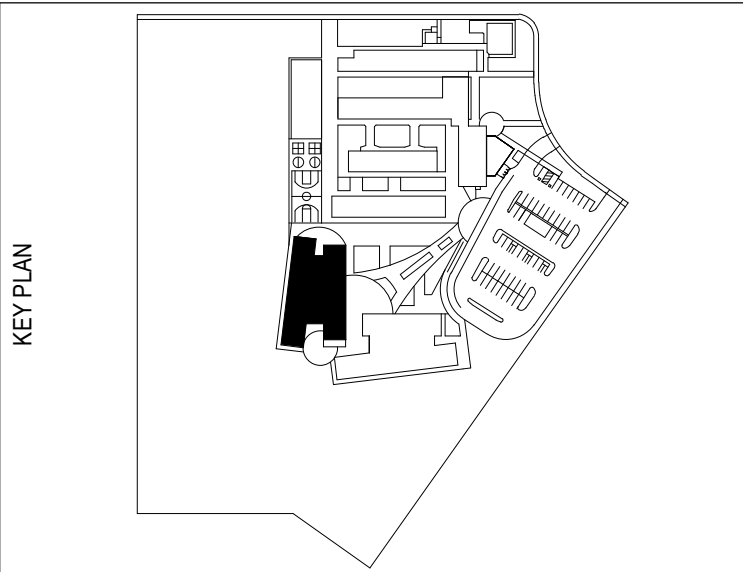
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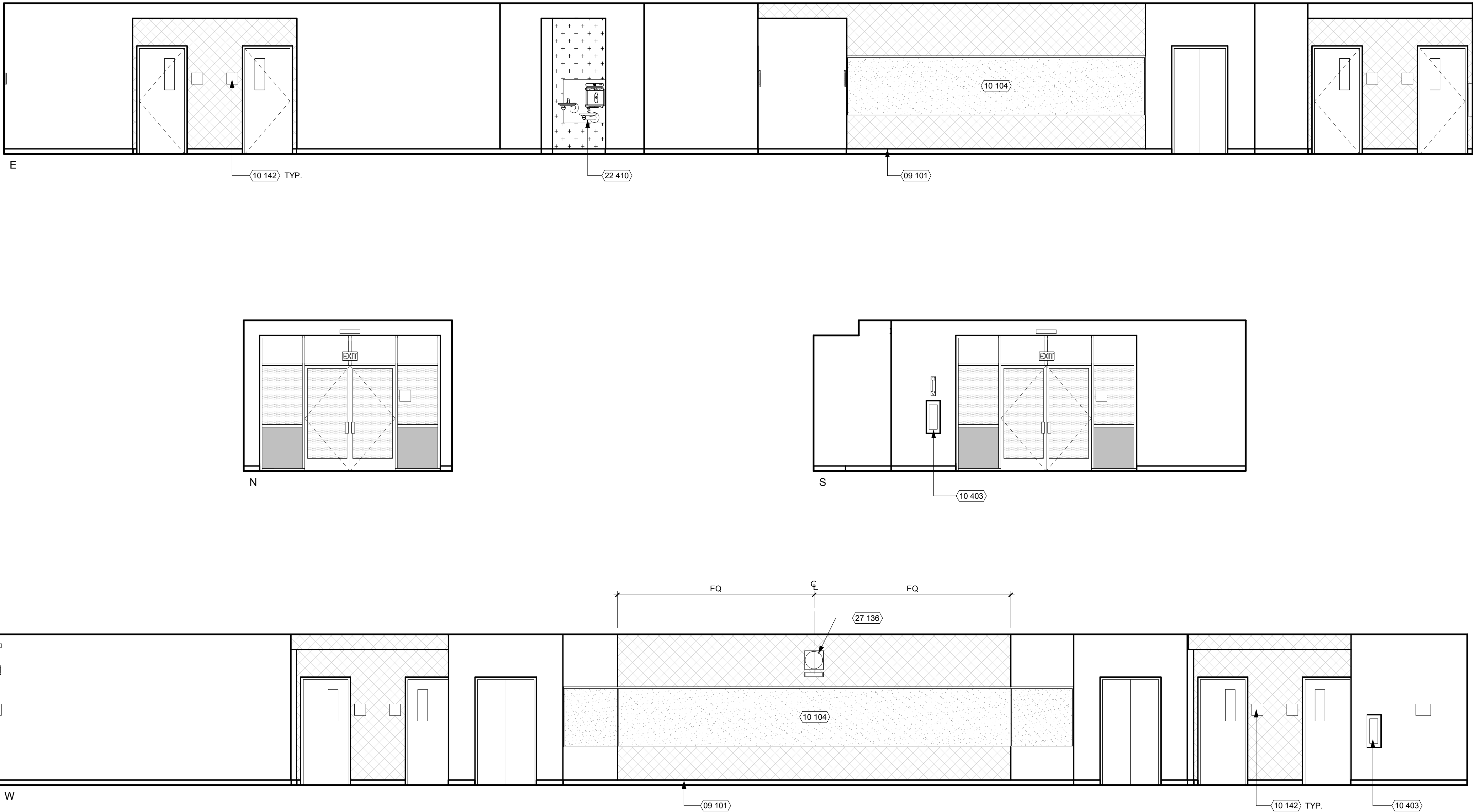
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BUILDING F TOILET ROOM  
PLANS AND ELEVATIONS

Date 05/20/2019	Project Number 19003
Scale As indicated	Drawing Number AF7.1
Drawn AA	Checked AM





F100-MULTIPURPOSE

1/4" = 1'-0"

8

GENERAL NOTES

1. SEE ROOM FINISH SCHEDULE FOR FINISH INFORMATION AND LEGEND.
2. ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE P-1, UNLESS NOTED OTHERWISE.
3. SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS AND FINISHES.
4. SEE FLOOR PLAN FOR WALL TYPES AND DOOR NUMBERS.
5. ALL EXPOSED STRUCTURAL ROOF FRAMING TO BE PAINTED.
6. ALL ACENT WALL PAINT TO BE TERMINATED AT EITHER INSIDE CORNER AND/OR REVEALS.
7. PROVIDE BACKING PLATES OR BLOCKING IN WALLS FOR ALL WALL MOUNTED EQUIPMENT SUCH AS SHELVING, MARKER BOARDS, AND DOOR STOPS. SEE DETAIL 29/A10.10.1.
8. ALL MILLWORK TO BE INSTALLED PRIOR TO CARPET (WHERE OCCURS), BUT AFTER PAINT WORK. MILLWORK SHALL BE MOUNTED TO SUB-FLOOR.
9. PROVIDE FILLER PANEL BETWEEN WALL AND CABINETS, TYP. FILLER PANELS TO BE MINIMAL.
10. FOR SIGNAGE TYPES, SEE CODE ANALYSIS FLOOR PLAN.

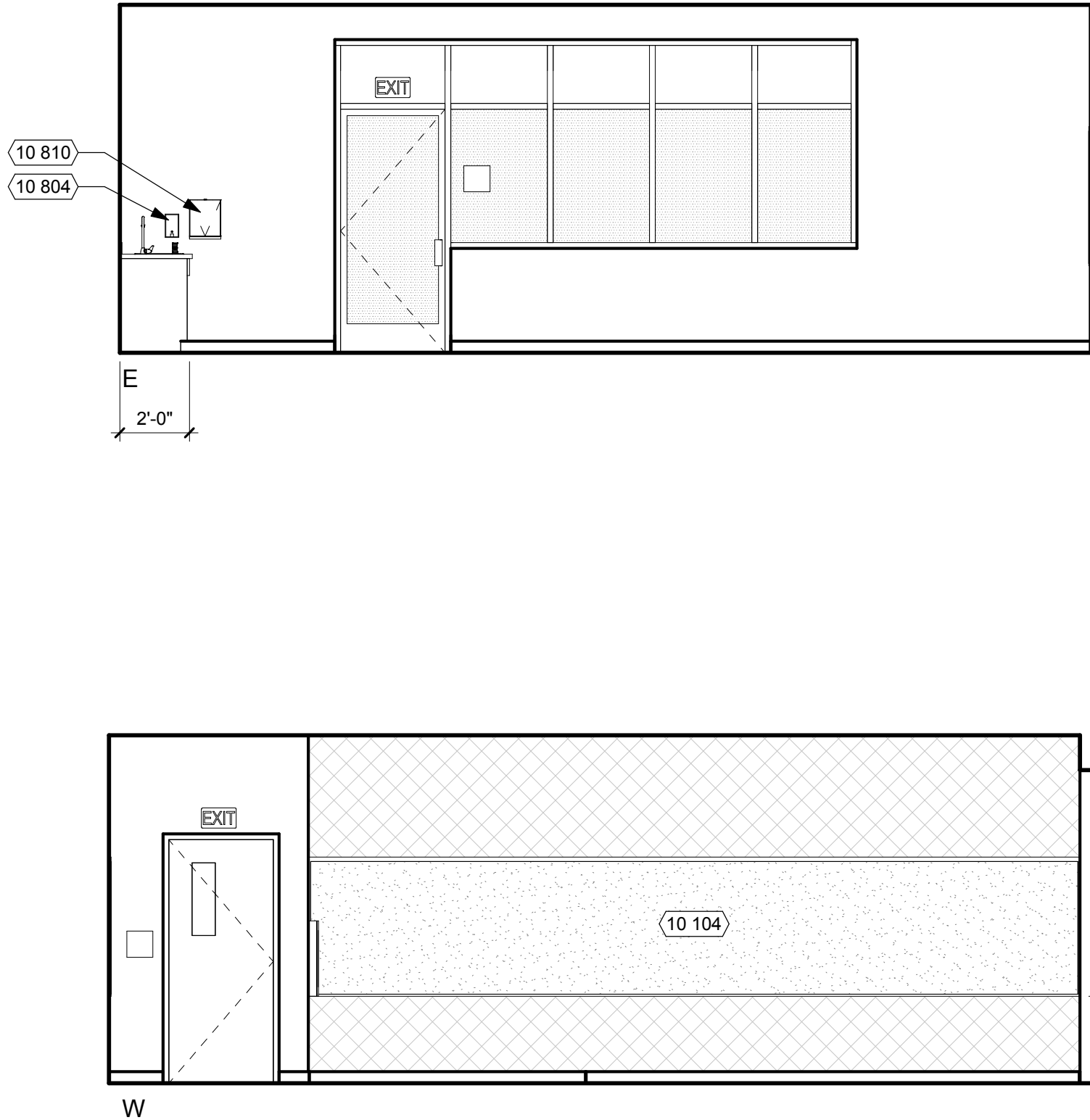
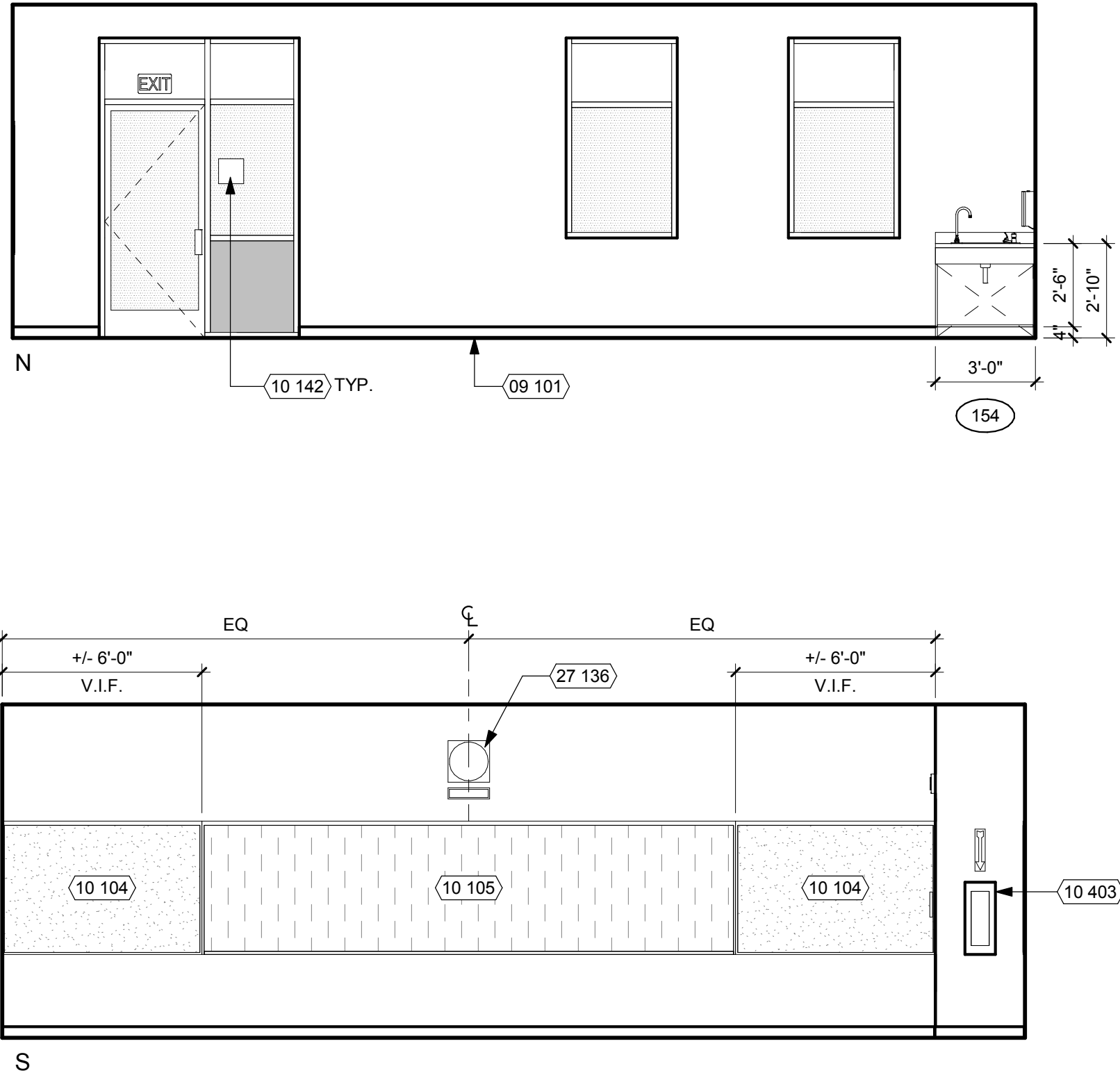
LEGEND

- TACK BOARD
- MARKER BOARD
- FRP2, PER FINISH SCHEDULE
- P2, PER FINISH SCHEDULE
- ETCHED GLAZING, PER WINDOW SCHEDULE

F101-CLASSROOM

1/4" = 1'-0"

10



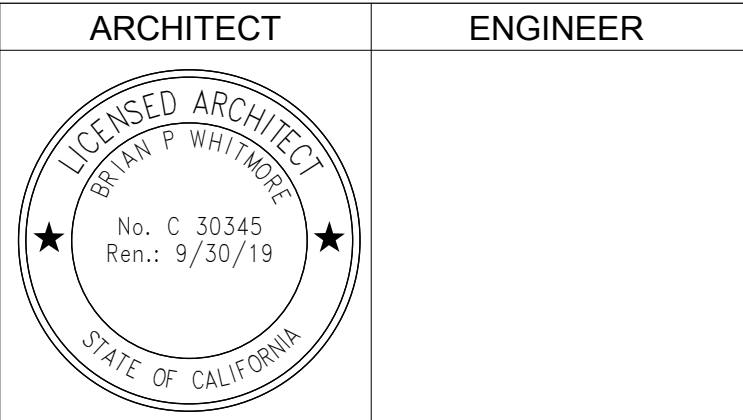
KEY NOTES

NUMBER	NOTE
08 101	WALL BASE (SEE FINISH SCHEDULE)
10 104	TACKBOARD (SEE DETAIL 27/A10.10.2)
10 105	18'-0" MARKER BOARD W/ TRAY (SEE DETAIL 22/A10.10.2)
10 142	SIGNAGE PER CODE ANALYSIS PLAN
10 403	FIRE EXTINGUISHER (2A-10B-C) IN SEMI-RECESSED CABINET (SEE DETAIL 25/A10.10.2)
10 804	SOAP DISPENSER
10 810	PAPER TOWEL DISPENSER
22 410	HI-LO DRINKING FOUNTAIN WITH BOTTLE FILLER (SEE DETAIL 23/A10.10.2)
27 136	O.F.O.I. CLOCK AND SPEAKER PAGING SYSTEM

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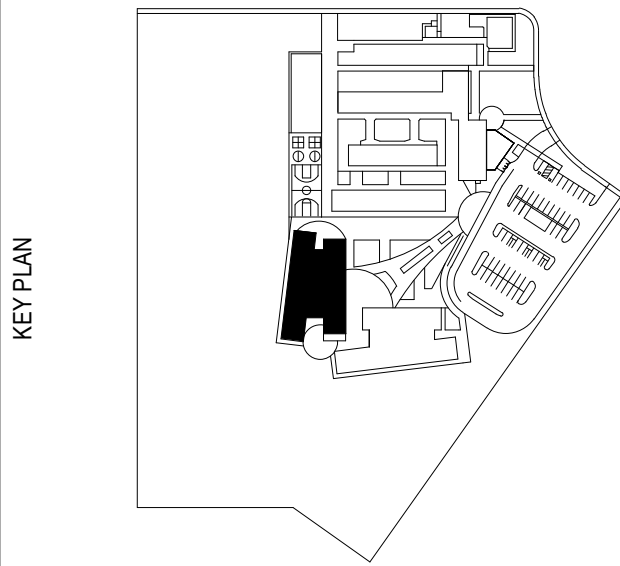
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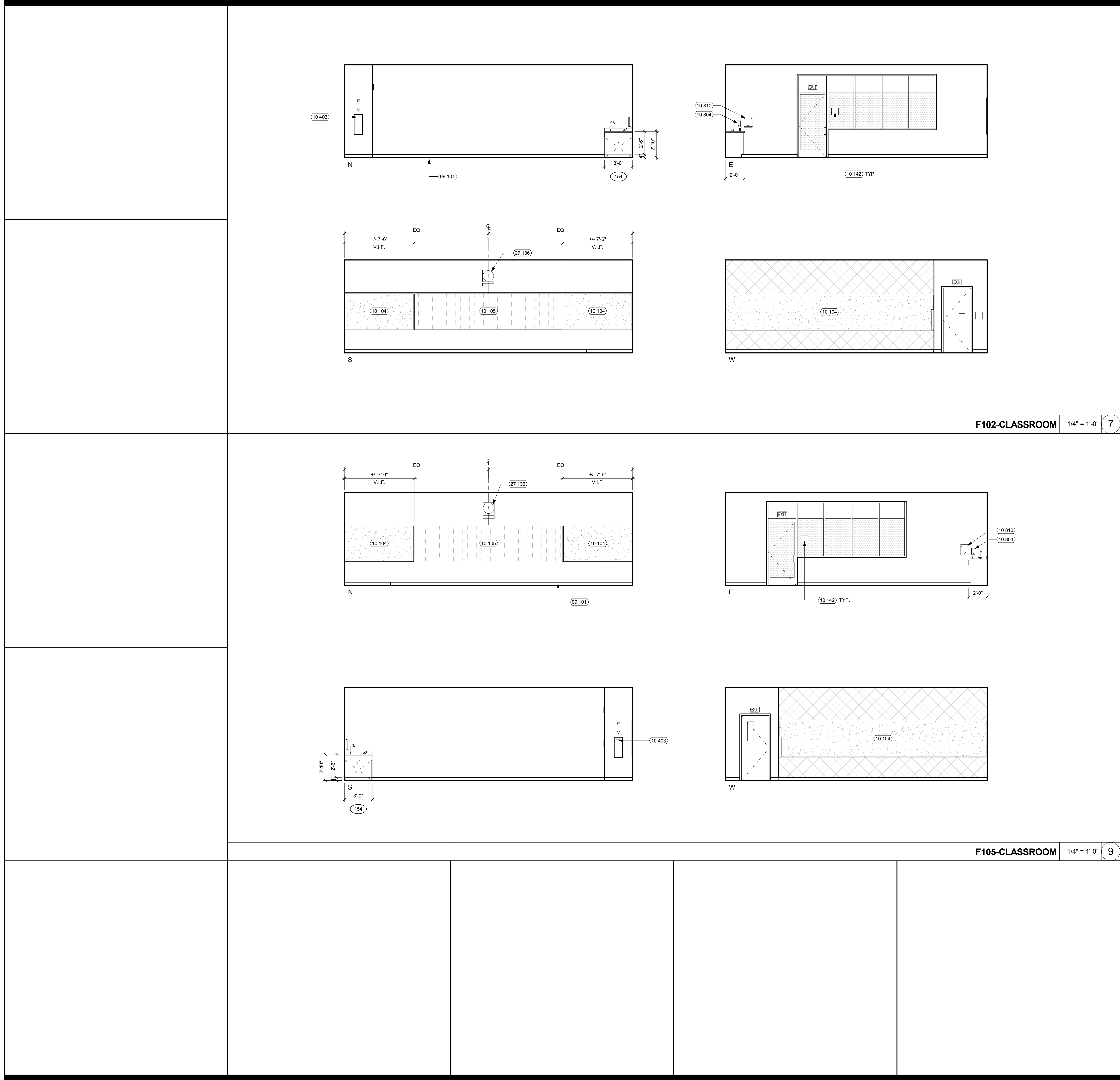
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SCHOOL  
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ADDITION  
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BUILDING F INTERIOR  
ELEVATIONS

Date	05/20/2019	Project Number	19003
Scale	As indicated	Drawing Number	AF8.1
Drawn	AA	Checked	AM





### KEY NOTES

NUMBER	NOTE
09 101	WALL BASE (SEE FINISH SCHEDULE)
10 104	TACKBOARD (SEE DETAIL 27/A10.10.2)
10 105	18'-0" MARKER BOARD W/ TRAY (SEE DETAIL 22/A10.10.2)
10 142	SIGNAGE PER CODE ANALYSIS PLAN
10 403	FIRE EXTINGUISHER (2A-10B-C) IN SEMI-RECESSED CABINET (SEE DETAIL 25/A10.10.2)
10 804	SOAP DISPENSER
10 810	PAPER TOWEL DISPENSER
27 136	O.F.O.I. CLOCK AND SPEAKER PAGING SYSTEM

### GENERAL NOTES

- SEE ROOM FINISH SCHEDULE FOR FINISH INFORMATION AND LEGEND.
- ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE P-1, UNLESS NOTED OTHERWISE.
- SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS AND FINISHES.
- SEE FLOOR PLAN FOR WALL TYPES AND DOOR NUMBERS.
- ALL EXPOSED STRUCTURAL ROOF FRAMING TO BE PAINTED.
- ALL ACENT WALL PAINT TO BE TERMINATED AT EITHER INSIDE CORNER AND/OR REVEALS.
- PROVIDE BACKING PLATES OR BLOCKING IN WALLS FOR ALL WALL MOUNTED EQUIPMENT SUCH AS SHELVING, MARKER BOARDS, AND DOOR STOPS. SEE DETAIL 29/A10.10.1.
- ALL MILLWORK TO BE INSTALLED PRIOR TO CARPET (WHERE OCCURS), BUT AFTER PAINT WORK. MILLWORK SHALL BE MOUNTED TO SUB-FLOOR. PROVIDE FILLER PANEL BETWEEN WALL AND CABINETS, TYP. FILLER PANELS TO BE MINIMAL.
- FOR SIGNAGE TYPES, SEE CODE ANALYSIS FLOOR PLAN.

### LEGEND

	TACK BOARD
	MARKER BOARD
	FRP2, PER FINISH SCHEDULE
	P2, PER FINISH SCHEDULE
	ETCHED GLAZING, PER WINDOW SCHEDULE

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KEY PLAN

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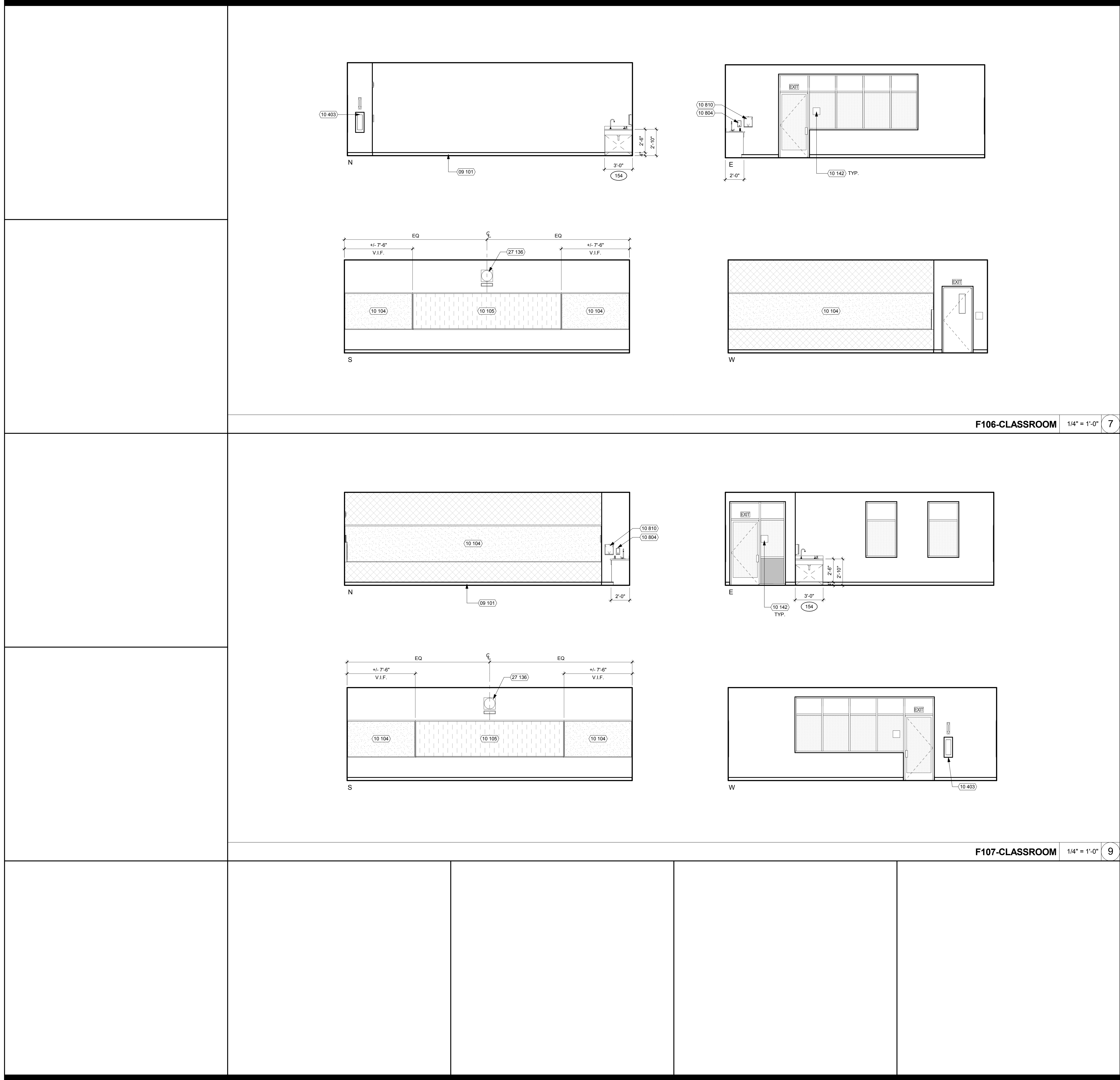
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ADDITION  
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BUILDING F INTERIOR  
ELEVATIONS

Date	05/20/2019	Project Number	19003
Scale	As indicated	Drawing Number	AF8.2
Drawn	AA	Checked	AM





### KEY NOTES

NUMBER	NOTE
09 101	WALL BASE (SEE FINISH SCHEDULE)
10 104	TACKBOARD (SEE DETAIL 27/A10.10.2)
10 105	18'-0" MARKER BOARD W/ TRAY (SEE DETAIL 22/A10.10.2)
10 142	SIGNAGE PER CODE ANALYSIS PLAN
10 403	FIRE EXTINGUISHER (2A-10B-C) IN SEMI-RECESSED CABINET (SEE DETAIL 25/A10.10.2)
10 804	SOAP DISPENSER
10 810	PAPER TOWEL DISPENSER
27 136	O.F.O.I. CLOCK AND SPEAKER PAGING SYSTEM

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- SEE FLOOR PLAN FOR WALL TYPES AND DOOR NUMBERS
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### LEGEND

	TACK BOARD
	MARKER BOARD
	FRP2, PER FINISH SCHEDULE
	P2, PER FINISH SCHEDULE
	ETCHED GLAZING, PER WINDOW SCHEDULE

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KEY PLAN

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DSA SUBMITTAL

WESTMORE OAKS  
SCHOOL  
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ADDITION  
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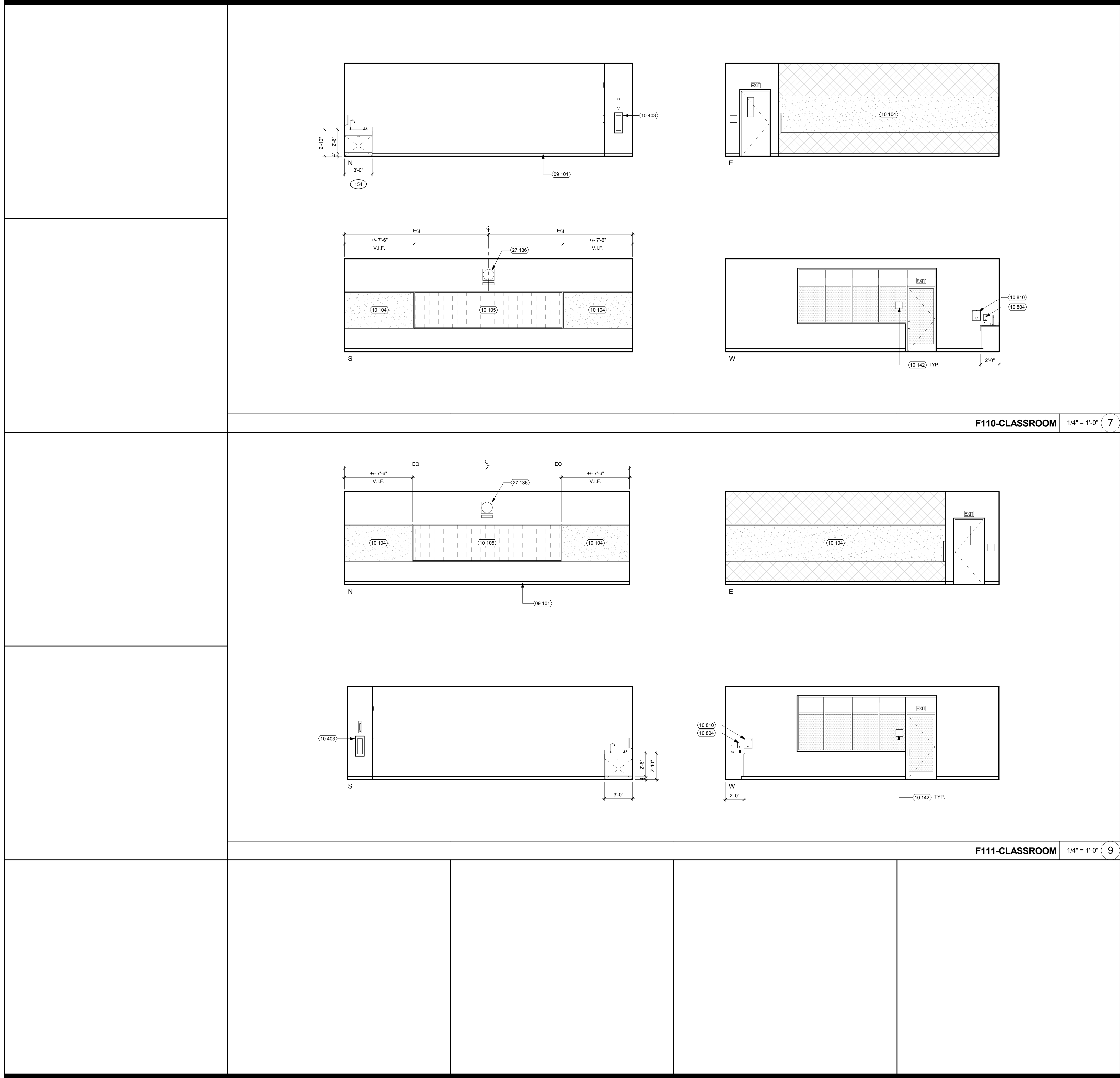
BUILDING F INTERIOR  
ELEVATIONS

Date 05/20/2019	Project Number 19003
Scale As indicated	Drawing Number AF8.3
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KEY NOTES

NUMBER	NOTE
09 101	WALL BASE (SEE FINISH SCHEDULE)
10 104	TACKBOARD (SEE DETAIL 27/A10.10.2)
10 105	18'-0" MARKER BOARD W/ TRAY (SEE DETAIL 22/A10.10.2)
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4. SEE FLOOR PLAN FOR WALL TYPES AND DOOR NUMBERS.

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6. ALL ACCENT WALL PAINT TO BE TERMINATED AT EITHER INSIDE CORNER AND/OR REVEALS.

7. PROVIDE BACKING PLATES OR BLOCKING IN WALLS FOR ALL WALL MOUNTED EQUIPMENT SUCH AS SHELVING, MARKER BOARDS, AND DOOR STOPS. SEE DETAIL 29/A10.10.1

8. ALL MILLWORK TO BE INSTALLED PRIOR TO CARPET (WHERE OCCURS), BUT AFTER PAINT WORK. MILLWORK SHALL BE MOUNTED TO SUB-FLOOR.

9. PROVIDE FILLER PANEL BETWEEN WALL AND CABINETS, TYP. FILLER PANELS TO BE MINIMAL.

10. FOR SIGNAGE TYPES, SEE CODE ANALYSIS FLOOR PLAN.

LEGEND

TACK BOARD

MARKER BOARD

FRP2, PER FINISH SCHEDULE

P2, PER FINISH SCHEDULE

ETCHED GLAZING, PER WINDOW SCHEDULE

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 CONSTRUCTION

DATE

05/20/2019

KEY PLAN

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WESTMORE OAKS SCHOOL  
NEW BLDGS F & G AND BLDG M ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING F INTERIOR ELEVATIONS

Date  
05/20/2019

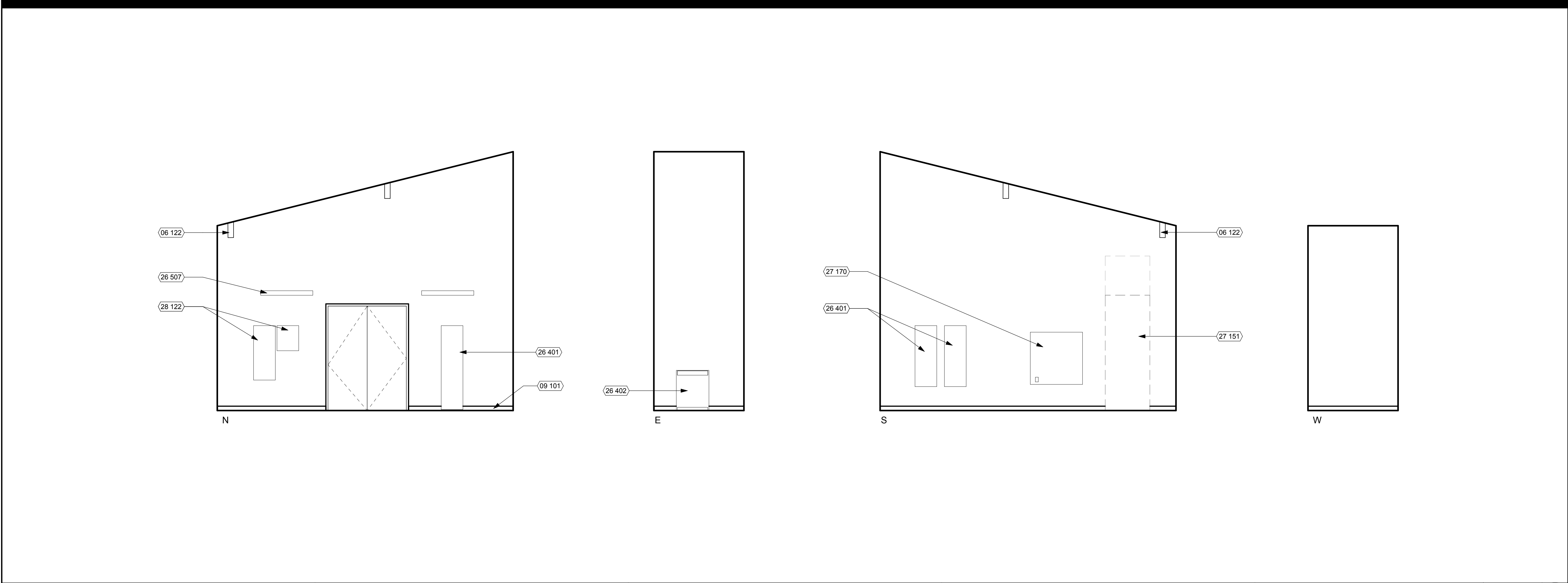
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Drawn  
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Project Number  
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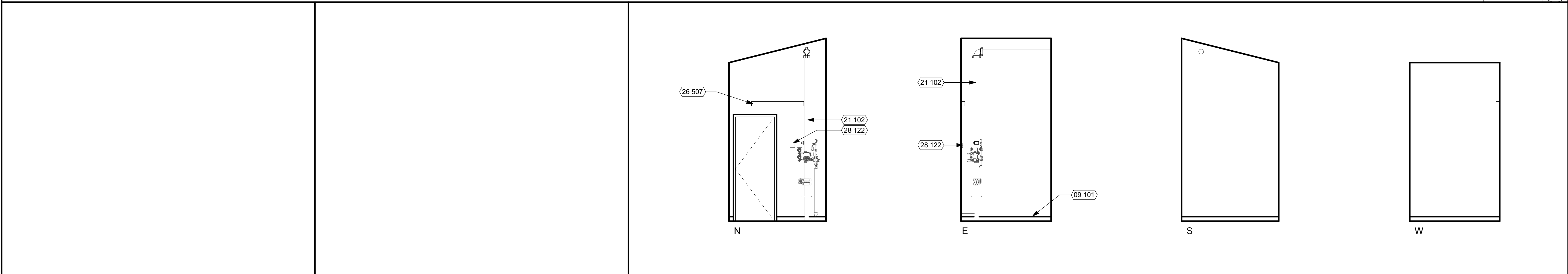
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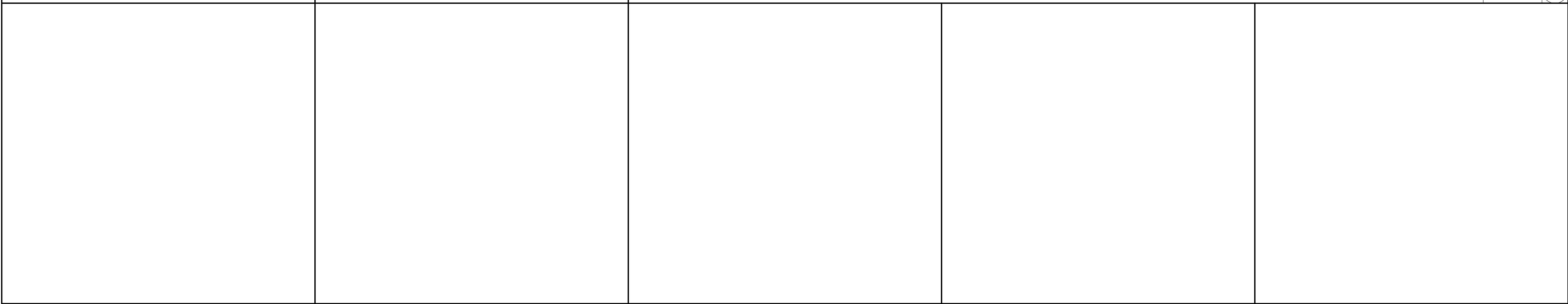


KEY NOTES	
NUMBER	NOTE
06 122	GLU-LAM BEAM (SEE STRUCTURAL DWGS.)
09 101	WALL BASE (SEE FINISH SCHEDULE)
21 102	FIRE RISER (SEE FIRE PROTECTION DWGS)
26 401	ELECTRICAL PANEL (SEE ELECTRICAL DWGS.)
26 402	TRANSFORMER (SEE ELECTRICAL DWGS.)
26 507	WALL MOUNT LIGHT FIXTURE
27 151	IDF RACK (SEE ELECTRICAL DWGS)
27 170	TELEPHONE TERMINAL BOARD (SEE ELECTRICAL DRAWINGS)
28 122	FIRE ALARM MONITOR MODULE (SEE FIRE PROTECTION DWGS)
28 123	FIRE ALARM PANEL (SEE FIRE PROTECTION DWGS)

F112-ELECTRICAL 1/4" = 1'-0" 7



F113-FIRE RISER 1/4" = 1'-0" 8



- GENERAL NOTES**
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LEGEND	
	TACK BOARD
	MARKER BOARD
	FRP2, PER FINISH SCHEDULE
	P2, PER FINISH SCHEDULE
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<input type="radio"/> BIDDING	
<input type="radio"/> CONSTRUCTION	

**KEY PLAN**

**WASHINGTON UNIFIED SCHOOL DISTRICT**  
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WEST SACRAMENTO, CA 95691

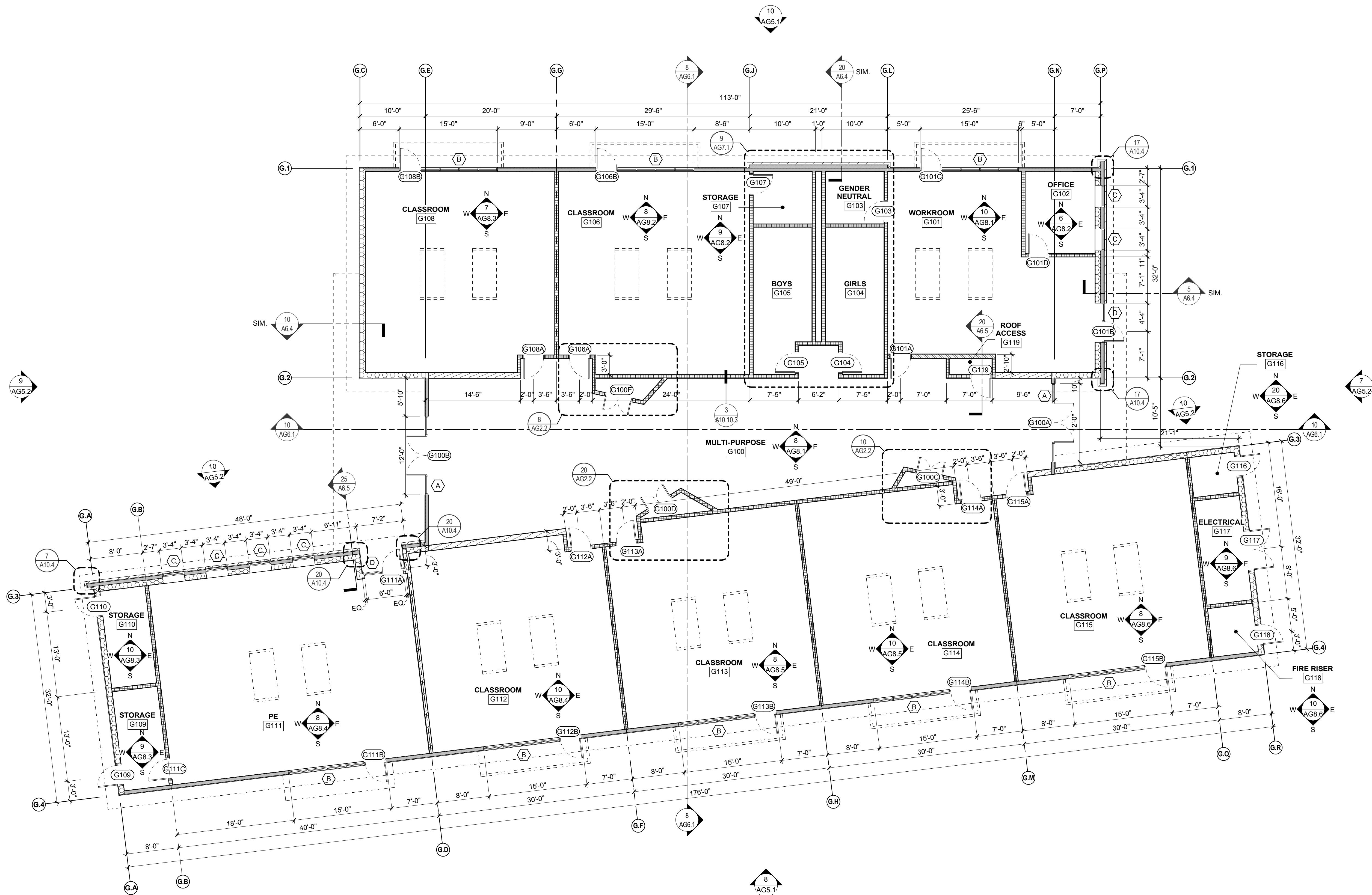
**DSA SUBMITTAL**

**WESTMORE OAKS SCHOOL**  
NEW BLDGS F & G AND BLDG M ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

**BUILDING F INTERIOR ELEVATIONS**

Date 05/20/2019	Project Number 19003
Scale As indicated	Drawing Number AF8.6
Drawn AA	Checked AM





KEY NOTES

NUMBER NOTE

GENERAL NOTES

1. PROVIDE ROOM NAME AND NUMBER WITH 1" HIGH TEXT AND GRADE #2 BRAILLE THROUGHOUT. SEE CODE ANALYSIS PLAN.
2. ALL WALLS SHALL HAVE R-19 BATT INSULATION, FULL HEIGHT.
3. SOUND INSULATION TO BE INSTALLED AT INTERIOR FULL HEIGHT WALLS. REFER TO STRUCTURAL DRAWINGS FOR HEADER SCHEDULE AND FRAMING DETAILS FOR OPENINGS IN INTERIOR AND EXTERIOR WALLS. SEE STRUCTURAL DRAWINGS FOR FRAMING SIZE AND SPACING.
4. SEE STRUCTURAL DRAWINGS FOR COLUMN LOCATIONS AND SIZING.
5. REFER TO ROOM FINISH SCHEDULE FOR INTERIOR WALL FINISHES.
6. DIMENSIONS OF STUDS ARE FROM FACE OF STUD.
7. PAINT ALL INTERIOR WALLS.

LEGEND

- LINE OF ROOF, SKYLIGHT, OR SOFFIT OVERHEAD - SHOWN DASHED
- EXISTING CONSTRUCTION TO REMAIN (BUILDING M ONLY)
- FULL BRICK VENEER EXTERIOR WALL, SEE DETAIL 2 / A10.1
- EXTERIOR PLASTER 6" STUD WALL, SEE DETAIL 3 / A10.1
- EXTERIOR PLASTER 8" STUD WALL, SEE DETAIL 4 / A10.1
- EXTERIOR PLASTER 10" STUD WALL, SEE DETAIL 5 / A10.1
- INTERIOR 6" STUD WALL, SEE DETAIL 11 / A10.1
- INTERIOR 2-HOUR RATED WALL (BUILDING M ONLY), SEE DETAIL 10 / A10.1
- INTERIOR 6" STUD WALL WITH ACOUSTIC SEPARATION (BUILDING G ONLY), SEE DETAIL 8 / A10.1
- INTERIOR 8" STUD WALL, SEE DETAIL 16 / A10.1
- INTERIOR 10" STUD WALL, SEE DETAIL 12 / A10.1

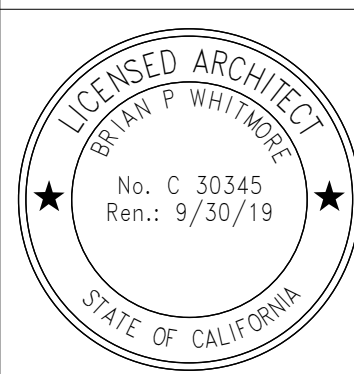
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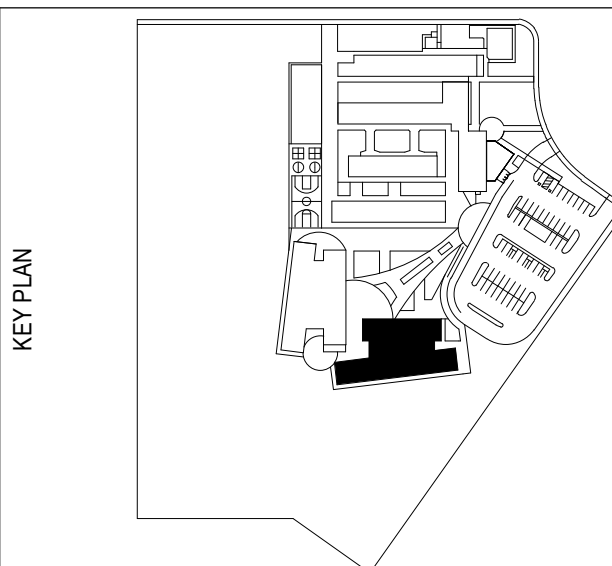
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ADDITION  
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BUILDING G FLOOR PLAN

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

AA

Project Number

19003

Drawing Number

AG2.1

Checked

AM

BUILDING G - FLOOR PLAN

1/8" = 1'-0"

10







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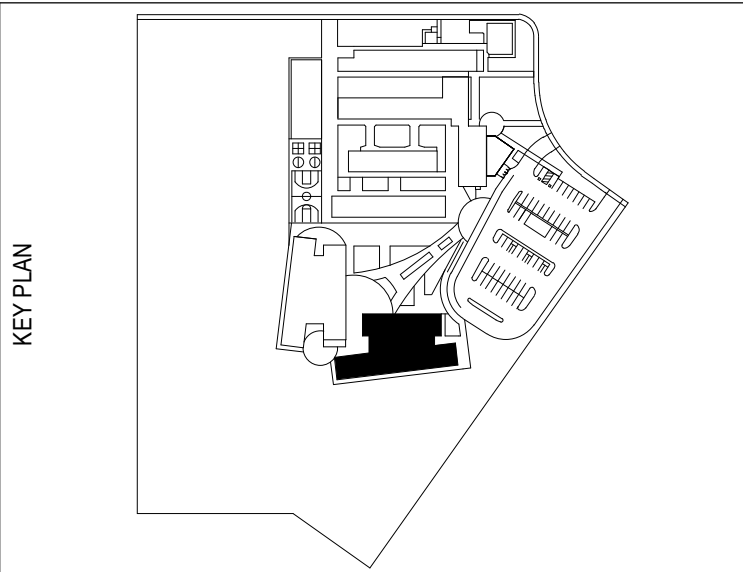
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<input type="radio"/> DSA BACK CHECK	
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ADDITION  
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BUILDING G EQUIPMENT  
PLAN

Date 05/20/2019	Project Number 19003
Scale 1/8" = 1'-0"	Drawing Number AG2.3
Drawn AA	Checked AM

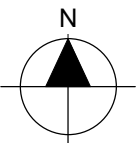
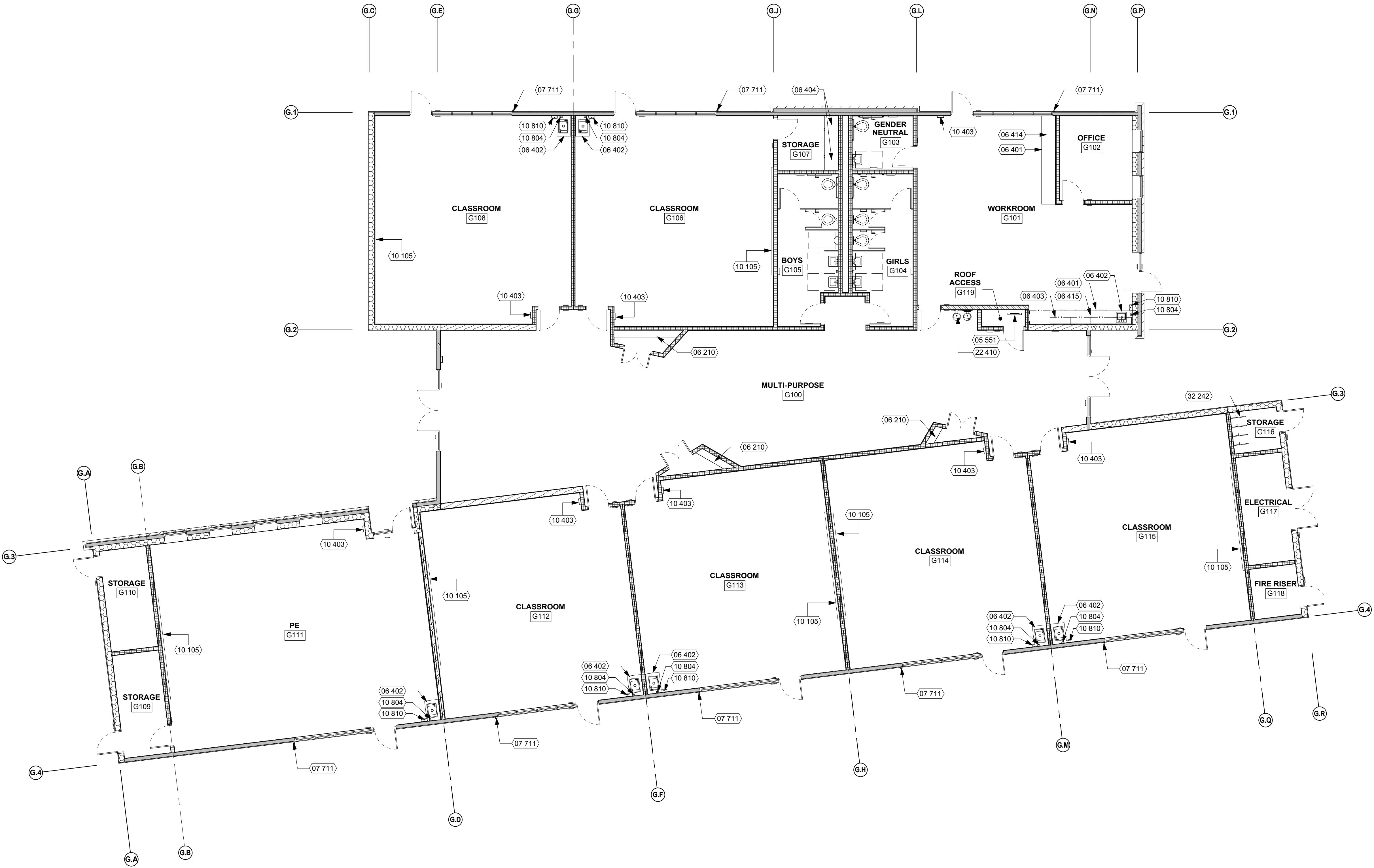
## KEY NOTES

NUMBER	NOTE
05 551	LADDER TO ROOF HATCH (SEE DETAIL 2/A10.7.1)
06 210	FIXED SHELVES, 12" WIDE
06 401	BASE CABINET BELOW, TYP. U.O.N. (SEE DETAIL 7/A10.6.2)
06 402	ACCESSIBLE BASE CABINET W/ SINK (SEE DETAIL 8/A10.6.2)
06 403	UPPER CABINET, TYP. (SEE DETAIL 7/A10.6.2)
06 404	FULL-HEIGHT CABINET (SEE DETAIL 12/A10.6.2)
06 414	ACCESSIBLE COUNTER
06 415	ACCESSIBLE COUNTER W/SINK
07 711	DOWNSPOUT, PAINT TO MATCH ADJACENT WALL
10 105	16'-0" MARKER BOARD W/ TRAY (SEE DETAIL 22/A10.10.2)
10 403	FIRE EXTINGUISHER (2A-10B.C) IN SEMI-RECESSED CABINET (SEE DETAIL 25/A10.10.2)
10 804	SOAP DISPENSER
10 810	PAPER TOWEL DISPENSER
22 410	H/L/O DRINKING FOUNTAIN WITH BOTTLE FILLER (SEE DETAIL 23/A10.10.2)
32 242	VERTICAL BICYCLE RACKS (SEE DETAIL 9/A10.10.3)

## GENERAL NOTES

- FOR SIGNAGE REFER TO CODE ANALYSIS PLAN.
- FOR CASEWORK DIMENSIONS REFER TO INTERIOR ELEVATIONS.
- FOR TACK BOARD LOCATIONS REFER TO INTERIOR ELEVATIONS.
- FOR RESTROOM FIXTURES, PARTITIONS, AND SPECIALTIES, REFER TO ENLARGED RESTROOM PLANS.

## LEGEND



BUILDING G - EQUIPMENT PLAN

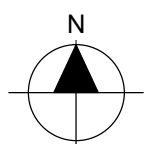
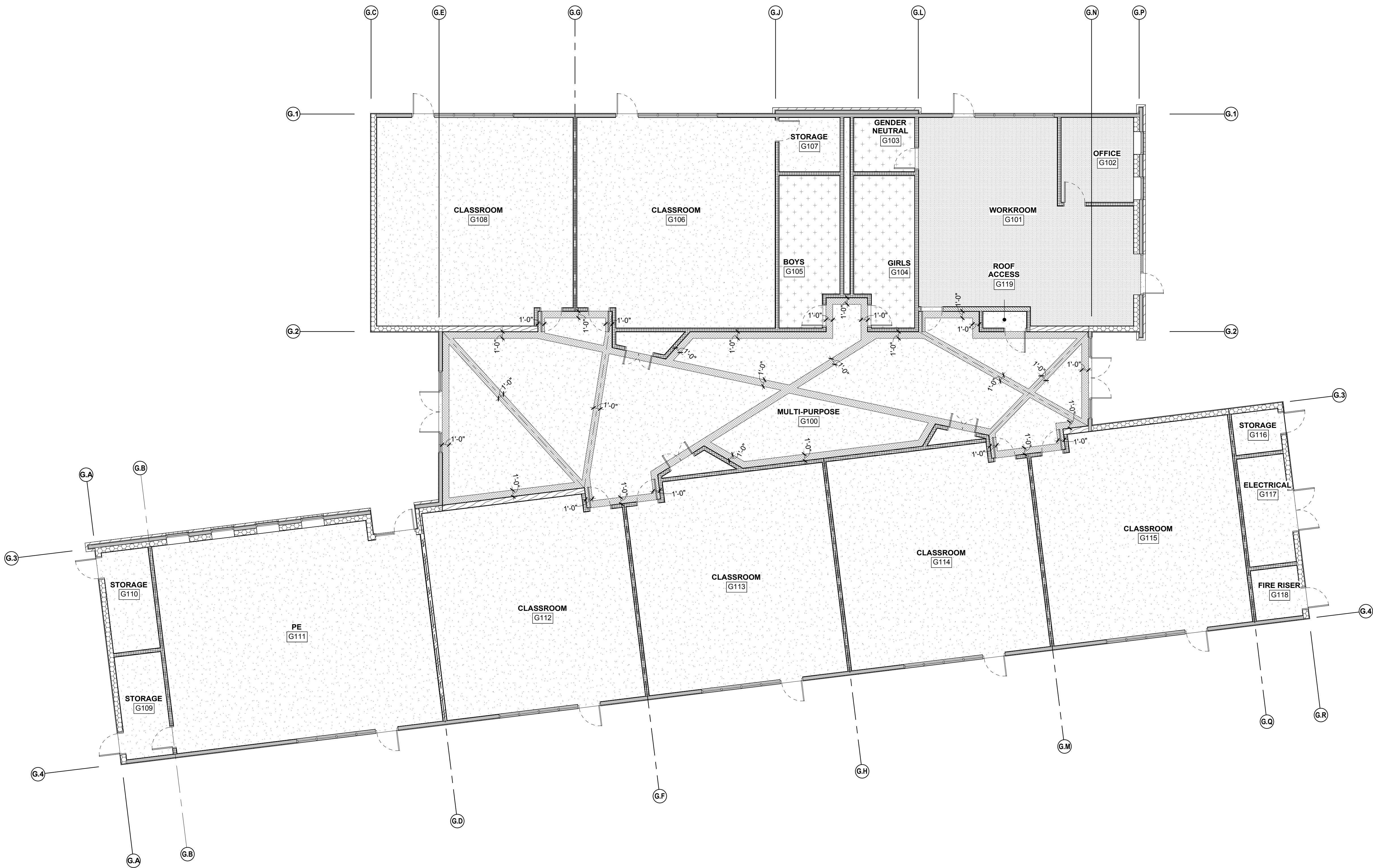
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REF: 7 / AF5.1



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REF: 7 / AF5.1



BUILDING G - FLOOR PATTERN PLAN

1/8" = 1'-0"

10

FINISH PLAN LEGEND

- EPX
- EC
- SC - 12" WIDE DECORATIVE PATTERN
- CPT (BUILDING G ONLY)
- DEPRESSED CONCRETE SLAB, PER STRUCTURAL DRAWINGS (BUILDING M ONLY)

NOTE:  
SEE FINISH LEGEND SCHEDULE FOR MATERIAL ABBREVIATION LEGENDS.

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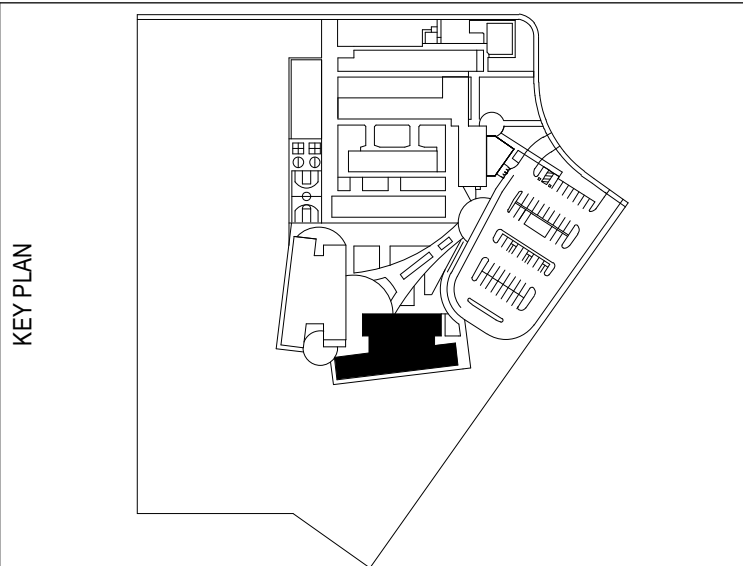
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NO.	REMARKS	DATE

DRAWING STATUS	DATE
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<input type="radio"/> DSA BACK CHECK	
<input type="radio"/> BIDDING	
<input type="radio"/> CONSTRUCTION	



WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DSA SUBMITTAL

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING G FLOOR  
PATTERN PLAN

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

AA

Checked

AM

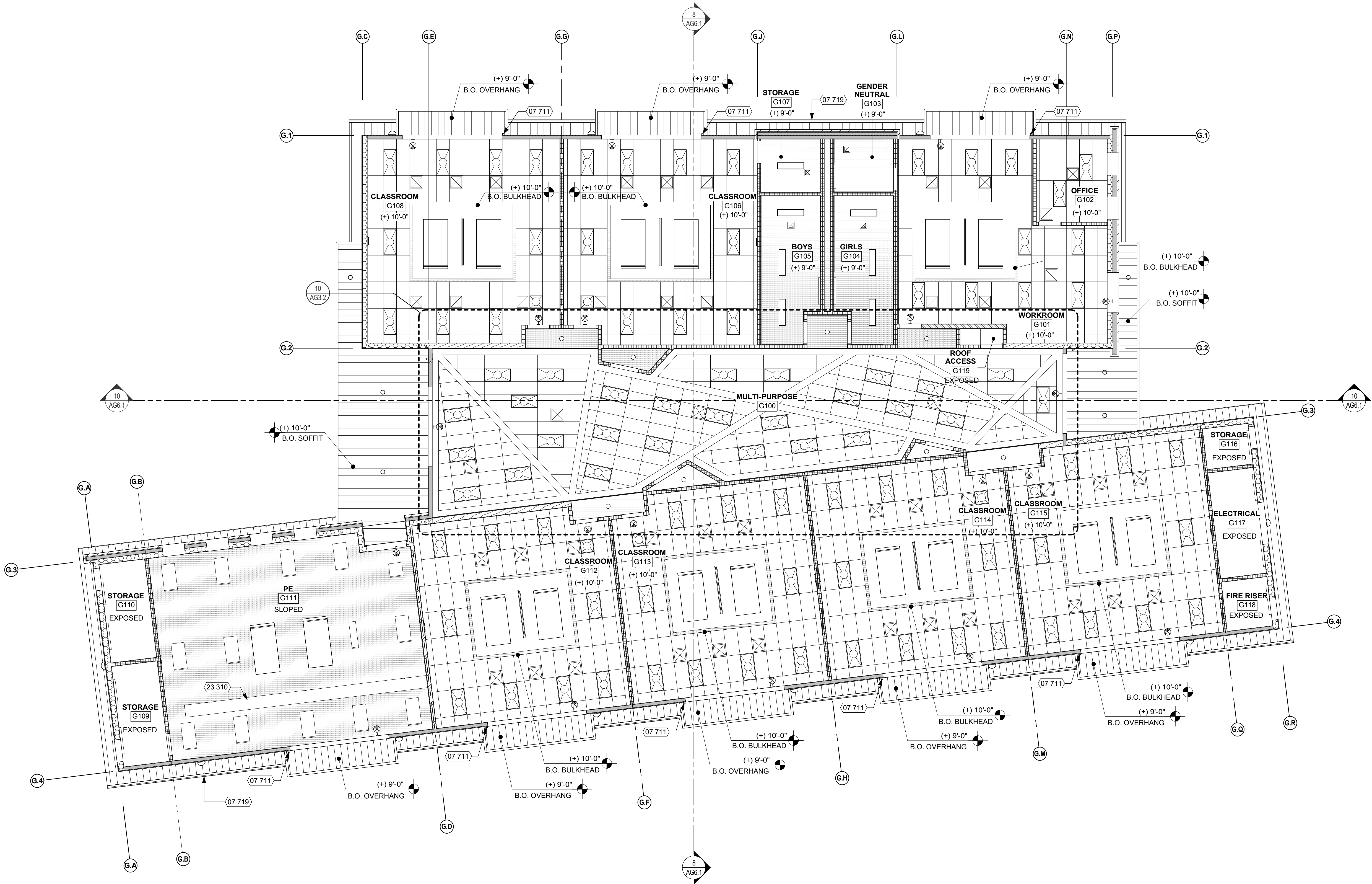
Project Number

19003

Drawing Number

AG2.5





KEY NOTES

NUMBER	NOTE
07 711	DOWNSPOUT, PAINT TO MATCH ADJACENT WALL
07 719	GUTTER, PAINTED F5
23 310	EXPOSED DUCTWORK (SEE MECHANICAL DWGS.)

GENERAL NOTES

- GENERAL
- ALL HEIGHTS ARE REFERENCED FROM FINISH FLOOR ELEVATIONS = 0'-0"
  - ACCESS DOORS TO BE INSTALLED TO SERVICE EQUIPMENT SHOWN IN CONTRACT DOCUMENTS. EXACT NUMBER AND LOCATION OF ACCESS PANELS IS NOT SHOWN. SEE DETAIL 4 / A10.9.3
  - PROVIDE ACCESS PANELS TO ENCLOSED AREAS ABOVE GYPSUM BOARD, CEILINGS, CENTER AND ALIGN TO LIGHT FIXTURES, AND OTHER CEILING FIXTURES PER PLAN.
  - CEILING SYSTEM SHOULD BE CENTERED WITHIN EACH ROOM AS WELL AS ALIGNED WITH THE STRUCTURAL GRID, U.O.N.
  - CEILING SYSTEM SHALL BE COORDINATED WITH THE LIGHTING & ELECTRICAL PLANS.
  - SKYLIGHT WELL ON THE CEILING PLAN SHOULD BE VERTICALLY ALIGNED WITH THE CORRESPONDING SKYLIGHT ON THE ROOF WHERE OCCURS.
  - PAINT GYP. BD. CEILINGS AND SOFFITS P-1 U.O.N. (PAINT FINISH TO BE SAME AT FACE AND UNDERSIDE OF SOFFITS.) REFER TO ROOM FINISH SCHEDULE FOR COLOR SELECTIONS
  - PAINT EXPOSED CEILINGS, DUCTWORK AND EQUIPMENT PER FINISH SCHEDULE.
  - NO EXPOSED NAILS OR SCREWS ARE ALLOWED.
- EQUIPMENT
- SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SUPPORTS & BRACING. ELECTRICAL DEVICES ARE SHOWN FOR LOCATION IN RELATION TO LIGHT FIXTURES AND MECHANICAL DIFFUSERS IN SELECT AREAS. FOR FIXTURE INFORMATION SEE ELECTRICAL DRAWINGS.
  - SEE MECHANICAL AND PLUMBING DRAWINGS FOR DIFFUSERS AND PIPE CHASES.
  - SEE FIRE PROTECTION DETAILS FOR PENETRATIONS THROUGH RATED WALLS, WHERE OCCURS.
  - SINGLE LIGHT FIXTURES IN GYP. BD. CEILINGS SHALL BE CENTERED IN ROOM.
  - LIGHT FIXTURE DIMENSIONS ARE TO CENTERLINE OF FIXTURE OR GROUP OF FIXTURES, U.O.N.
  - CENTER AND ALIGN SMOKE DETECTOR, DIFFUSERS, GRILLS, AND SIMILAR ITEMS IN CEILING TILE GRID AND ALIGN WITH LIGHT FIXTURES. SEE DETAIL 3 / A10.9.3
  - SEE ELECTRICAL DRAWINGS FOR LOW LEVEL EXIT SIGN LOCATIONS.

LEGEND

- 2x4 SUSPENDED ACOUSTICAL CEILING PANEL SYSTEM. SEE SHEET A10.9.1 AND A10.9.2 FOR ATTACHMENT TO STRUCTURE
- GYPSUM WALLBOARD CEILING, PAINT SURFACE. SEE DETAIL 2 / A10.9.3
- METAL PANEL SOFFIT, 12" FLAT PANEL
- SKYLIGHT
- LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS
- MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
- CEILING ACCESS PANEL

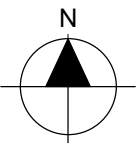
ROOM NAME  
[A119]  
(+) 8'-0"

ROOM TAG  
(+) 8'-0" = CEILING HEIGHT OF ROOM, U.O.N.

ROOM NAME  
[A119]  
EXPOSED

ROOM TAG  
EXPOSED = OPEN TO STRUCTURE

EMERGENCY EXIT LIGHT



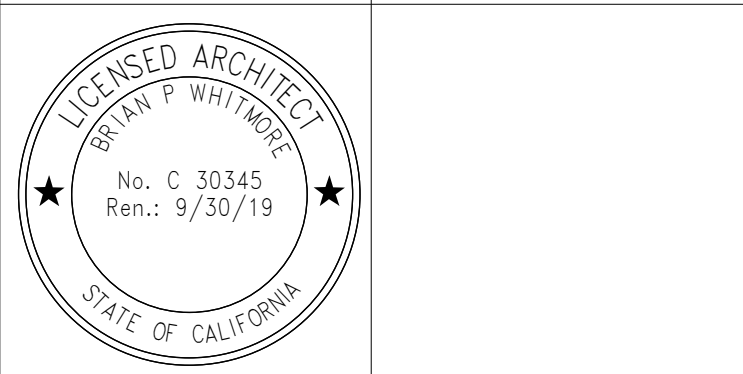
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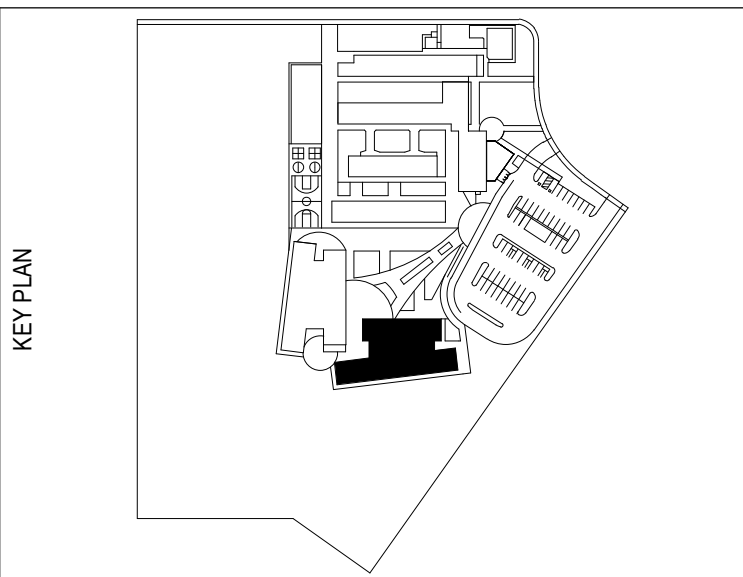
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NO.	REMARKS	DATE

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BUILDING G REFLECTED  
CEILING PLAN

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

AA

Project Number

19003

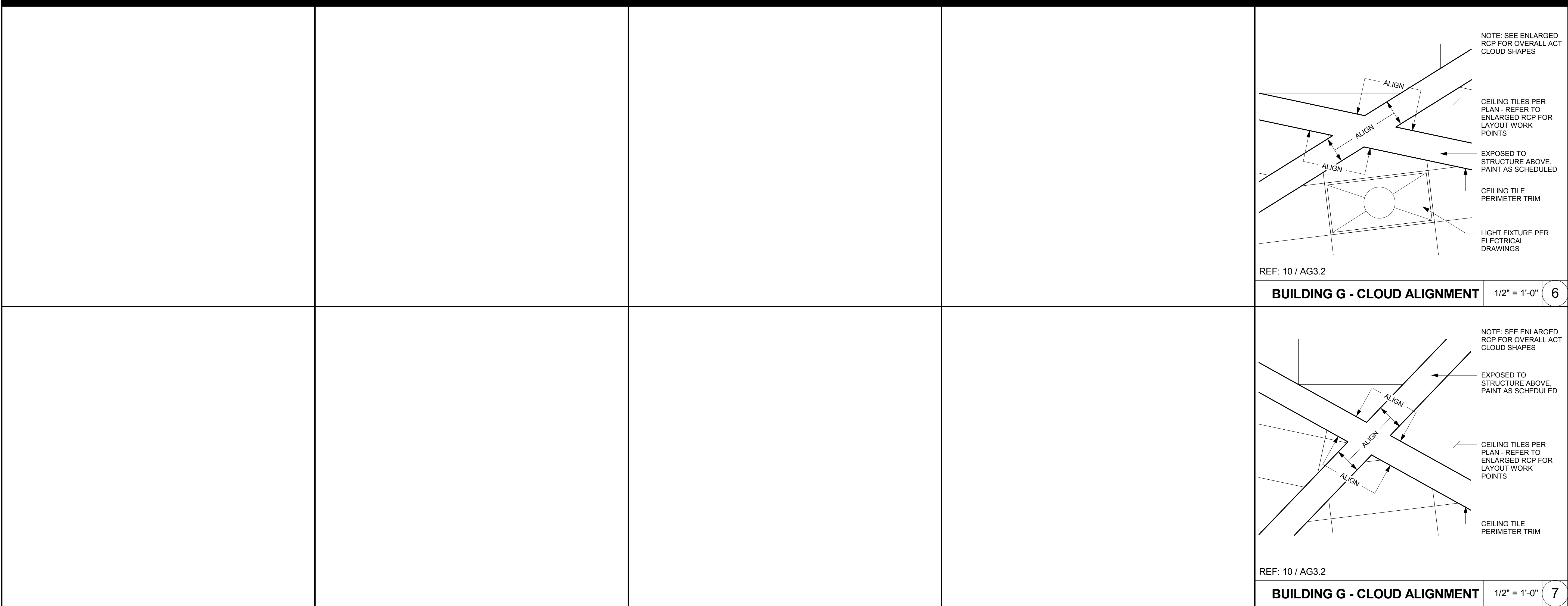
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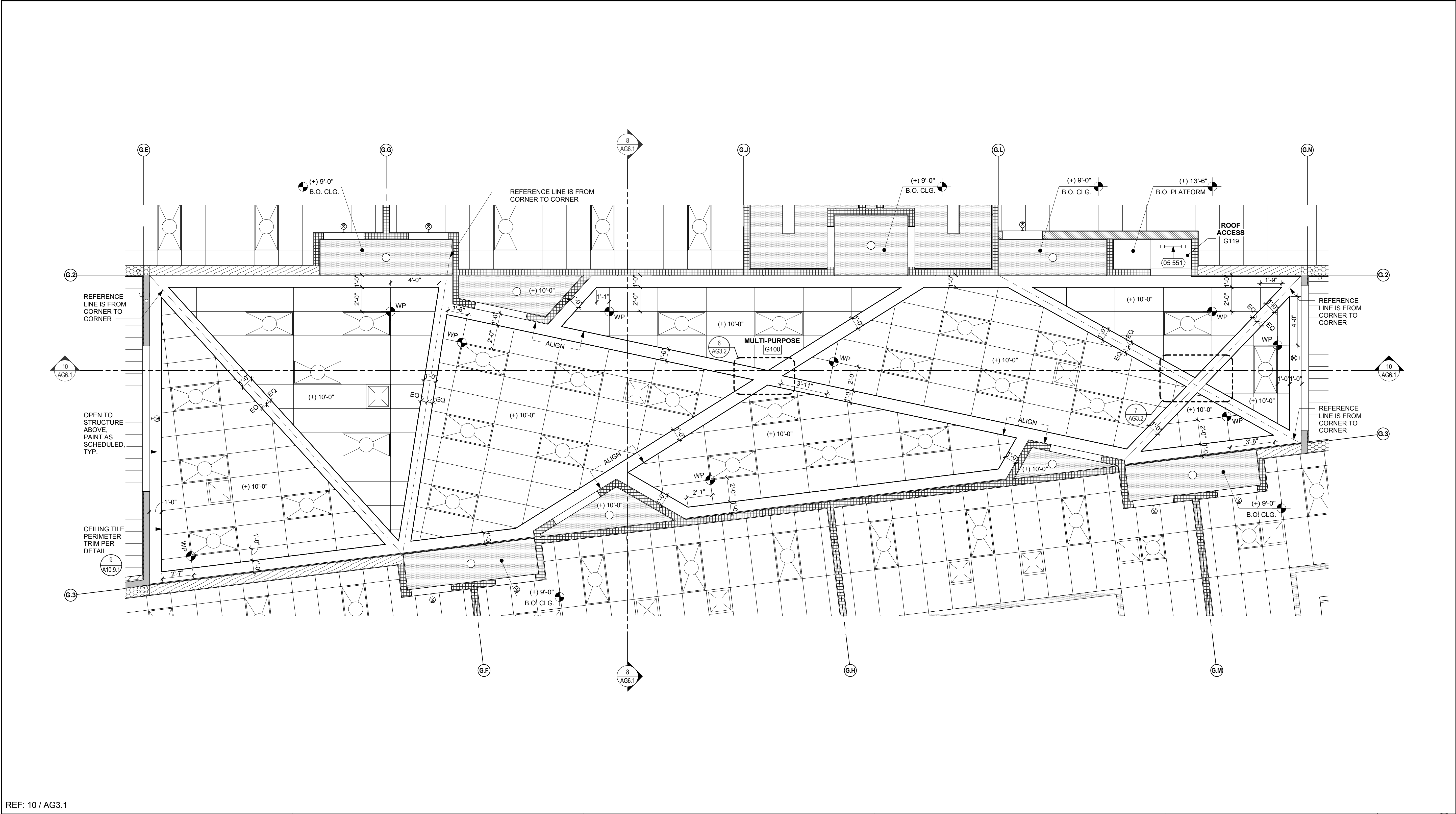
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KEY NOTES	
NUMBER	NOTE
05 551	LADDER TO ROOF HATCH (SEE DETAIL 2/A10.7.1)

GENERAL NOTES	
GENERAL	
1.	ALL HEIGHTS ARE REFERENCED FROM FINISH FLOOR ELEVATIONS = 0'-0"
2.	ACCESS DOORS TO BE INSTALLED TO SERVICE EQUIPMENT SHOWN IN CONTRACT DOCUMENTS. EXACT NUMBER AND LOCATION OF ACCESS PANELS IS NOT SHOWN. SEE DETAIL 4 / A10.9.3
3.	PROVIDE ACCESS PANELS TO ENCLOSED AREAS ABOVE GYPSUM BOARD, CEILINGS, CENTER AND ALIGN TO LIGHT FIXTURES, AND OTHER CEILING FIXTURES PER PLAN.
4.	CEILING SYSTEM SHOULD BE CENTERED WITHIN EACH ROOM AS WELL AS ALIGNED WITH THE STRUCTURAL GRID, U.O.N.
5.	CEILING SYSTEM SHALL BE COORDINATED WITH THE LIGHTING & ELECTRICAL PLANS.
6.	SKYLIGHT WELL ON THE CEILING PLAN SHOULD BE VERTICALLY ALIGNED WITH THE CORRESPONDING SKYLIGHT ON THE ROOF WHERE OCCURS.
7.	PANT GYP. BD. CEILINGS AND SOFFITS P-1 U.O.N. (PAINT FINISH TO BE SAME AT FACE AND UNDERSIDE OF SOFFITS). REFER TO ROOM FINISH SCHEDULE FOR COLOR SELECTIONS
8.	PAINT EXPOSED CEILINGS, DUCTWORK AND EQUIPMENT PER FINISH SCHEDULE
9.	NO EXPOSED NAILS OR SCREWS ARE ALLOWED.
EQUIPMENT	
1.	SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SUPPORTS & BRACING. ELECTRICAL DEVICES ARE SHOWN FOR LOCATION IN RELATION TO LIGHT FIXTURES AND MECHANICAL DIFFUSERS IN SELECT AREAS. FOR FIXTURE INFORMATION SEE ELECTRICAL DRAWINGS.
2.	SEE MECHANICAL AND PLUMBING DRAWINGS FOR DIFFUSERS AND PIPE CHASES.
3.	SEE FIRE PROTECTION DETAILS FOR PENETRATIONS THROUGH RATED WALLS, WHERE OCCURS.
4.	SINGLE LIGHT FIXTURES IN GYP. BD. CEILINGS SHALL BE CENTERED IN ROOM.
5.	LIGHT FIXTURE DIMENSIONS ARE TO CENTERLINE OF FIXTURE OR GROUP OF FIXTURES, U.O.N.
6.	CENTER AND ALIGN SMOKE DETECTOR, DIFFUSERS, GRILLS, AND SIMILAR ITEMS IN CEILING TILE GRID AND ALIGN WITH LIGHT FIXTURES. SEE DETAIL 3 / A10.9.3
7.	SEE ELECTRICAL DRAWINGS FOR LOW LEVEL EXIT SIGN LOCATIONS.



6. OF FIXTURES, U.O.N.  
CENTER AND ALIGN SMOKE DETECTOR, DIFFUSERS, GRILLS, AND SIMILAR  
ITEMS IN CEILING TILE GRID AND ALIGN WITH LIGHT FIXTURES. SEE  
DETAIL 3 / A10.9.3

7. SEE ELECTRICAL DRAWINGS FOR LOW LEVEL EXIT SIGN LOCATIONS.

## LEGEND

2x4 SUSPENDED ACOUSTICAL CEILING PANEL SYSTEM. SEE SHEET A10.9.1 AND A10.9.2 FOR ATTACHMENT TO STRUCTURE

GYPSUM WALLBOARD CEILING, PAINT SURFACE.  
SEE DETAIL 2 / A10.9.3

METAL PANEL SOFFIT, 12" FLAT PANEL

SKYLIGHT

LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS

MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS

CEILING ACCESS PANEL

ROOM NAME  
A119  
(+) 8'-0"

ROOM TAG  
(+) 8'-0" = CEILING HEIGHT OF ROOM, U.O.N.

ROOM NAME  
A119  
EXPOSED

ROOM TAG  
EXPOSED = OPEN TO STRUCTURE

EMERGENCY EXIT LIGHT

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REMARKS

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SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING G ENLARGED  
REFLECTED CEILING  
PLAN

Date  
05/20/2019

Scale  
As indicated

Drawn  
AA

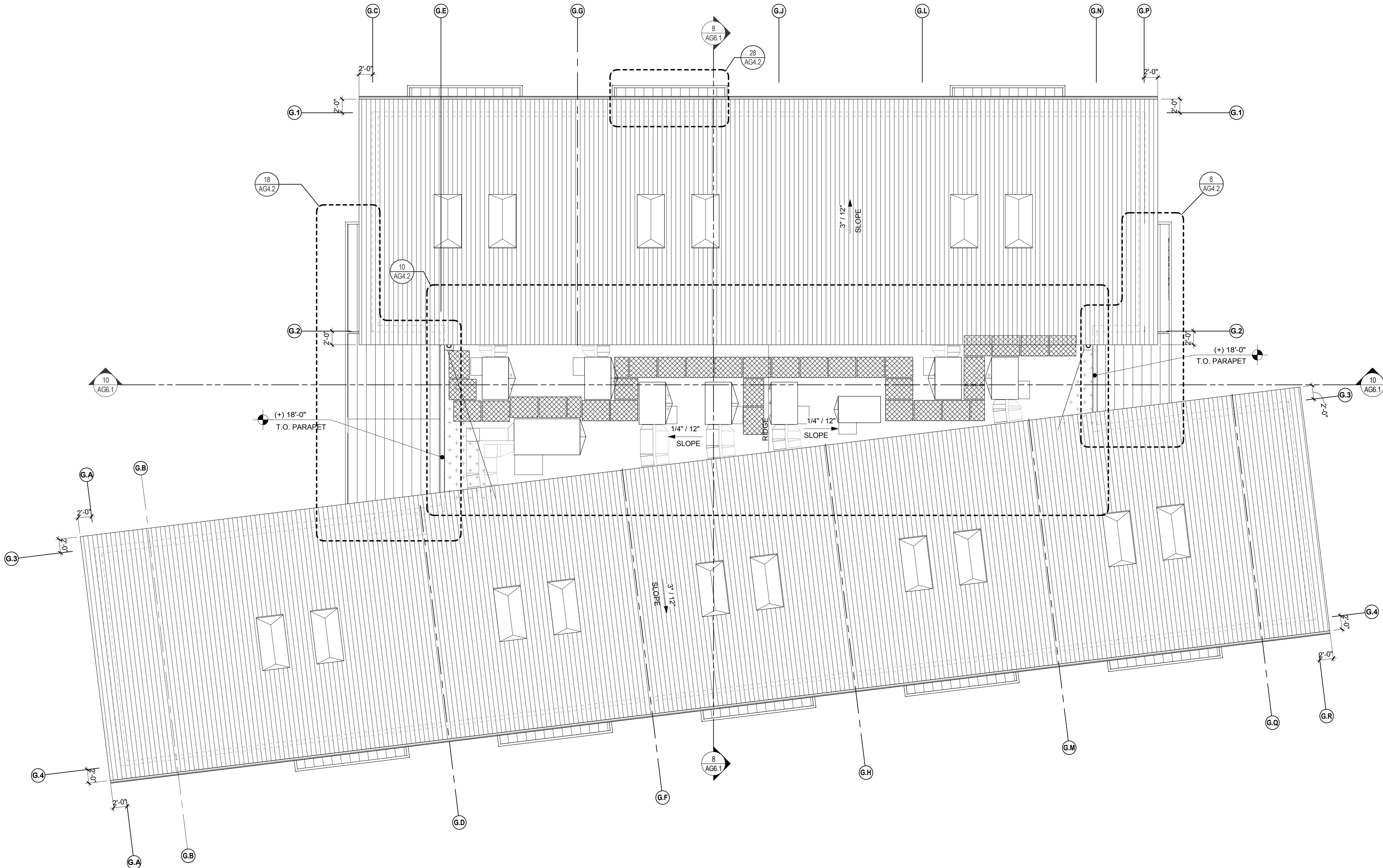
Project Number  
19003

Drawing Number  
AG3.2

Checked  
AM



REF: 10 / AF6.1



BUILDING G - ROOF PLAN

1/8" = 1'-0"

10

KEY NOTES

NUMBER NOTE

- GENERAL
- NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
  - ALL ROOF MATERIALS TO BE CLASS A RATED.
  - MINIMUM ROOF INSULATION R-30 ALL LOCATIONS OF THE ROOF.
  - MINIMUM THICKNESS OF ROOF INSULATION TO BE 6" AT LOW POINT OF ROOF DRAIN SUMP.
  - FLASHING TERMINATIONS SHALL HAVE WATER-TIGHT SHEET METAL CLOSURES WITH WATERPROOF SELF-ADHERED MEMBRANE UNDERLAYMENT.
  - NAILER THICKNESS SHALL MATCH ADJACENT INSULATION THICKNESS WITHIN 1/4" TOLERANCE.
- SLOPES AND DRAINAGE
- SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS, ETC.) SHALL BE 1/4" / FT. SLOPE MINIMUM AS INDICATED AT ALL ROOF AREAS, INCLUDING VALLEYS, AND STEEPER AS REQUIRED TO MEET VALLEY SLOPE CRITERIA.
  - BACK SLOPES SHALL BE 2X THE PRIMARY SLOPE.
  - MINIMUM ROOF SLOPE IN VALLEYS IS 1/4" / FT. ADJUST SLOPE OF CRICKETS TO PROVIDE MINIMUM SLOPE AT ALL LOCATIONS OF ROOF. TO PREVENT PONDING, DIRECT ALL ROOF WATER TO DRAINS.
  - TAPER INSULATION UP FROM DRAIN IN SUMPS MINIMUM OF 1/4" / FT. BUT NOT TO EXCEED 1" / FT. PROVIDE TAPERED FILL TO CONFORM THE SUMP INSULATION TO THE THICKNESS OF INSULATION IN THE FIELD OF THE ROOF.
  - PROVIDE TAPERED CRICKET ON THE HIGH SIDE OF PENETRATIONS WIDER THAN 24".
  - MINIMUM SLOPE 1/4" / FT. TO DRAIN AT ALL LOCATIONS.
- EQUIPMENT
- REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND OTHER FACILITY SERVICES DRAWINGS FOR EQUIPMENT, DUCTWORK, PENETRATIONS AND OTHER FEATURES NOT OTHERWISE SHOWN.
  - PENETRATIONS, CURBS AND TERMINATIONS, INCLUDING THOSE FOR MECHANICAL, ELECTRICAL, PLUMBING AND OTHER FACILITY SERVICES SHALL PROVIDE MINIMUM 8" VERTICAL BASE FLASHING ELEVATION ABOVE THE TOP OF THE ADJACENT ROOF SURFACE (NOT STRUCTURAL DECK).
  - EQUIPMENT SUPPORT PENETRATIONS SHALL BE ROUND SHAPES UNLESS SPECIFICALLY DETAILED OTHERWISE.
  - FOR CONDUIT THROUGH ROOF DETAIL, SEE ELECTRICAL DRAWINGS.
  - FOR TYPICAL PENETRATION CLEARANCES, SEE DETAIL 18 / A10.7.1.
  - FOR DUCT THRU WALL PENETRATION, SEE DETAIL 21 / A10.7.1.

LEGEND

- 10 AG6.1 ROOF DRAIN AND OVERFLOW, SEE DETAIL 10 / A10.7.1
- 13 AG10.7.1 ROOF WALKWAY PADS
- MODIFIED BITUMEN ROOFING
- ROOF CRICKET, TAPERED RIGID INSULATION, SLOPED TO DRAIN PER DETAIL 25 / A10.7.1
- 2 AG10.7.3 SKYLIGHT, SEE DETAIL (BUILDINGS F & G ONLY)
- STANDING SEAM METAL ROOFING, 16" PLANK & PENCIL RIBS PANEL OVER COVER BOARD AND INSULATION (BUILDINGS F & G ONLY)
- STANDING SEAM METAL ROOFING, 16" FLAT PANEL

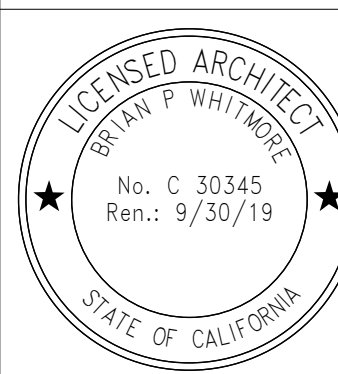
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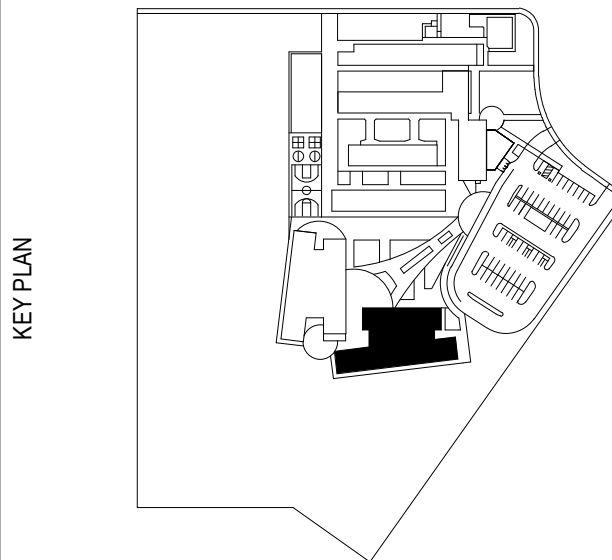
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NO.	REMARKS	DATE

DRAWING STATUS	DATE
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<input type="radio"/> BIDDING	
<input type="radio"/> CONSTRUCTION	



WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

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WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING G ROOF PLAN

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

AA

Checked

AM

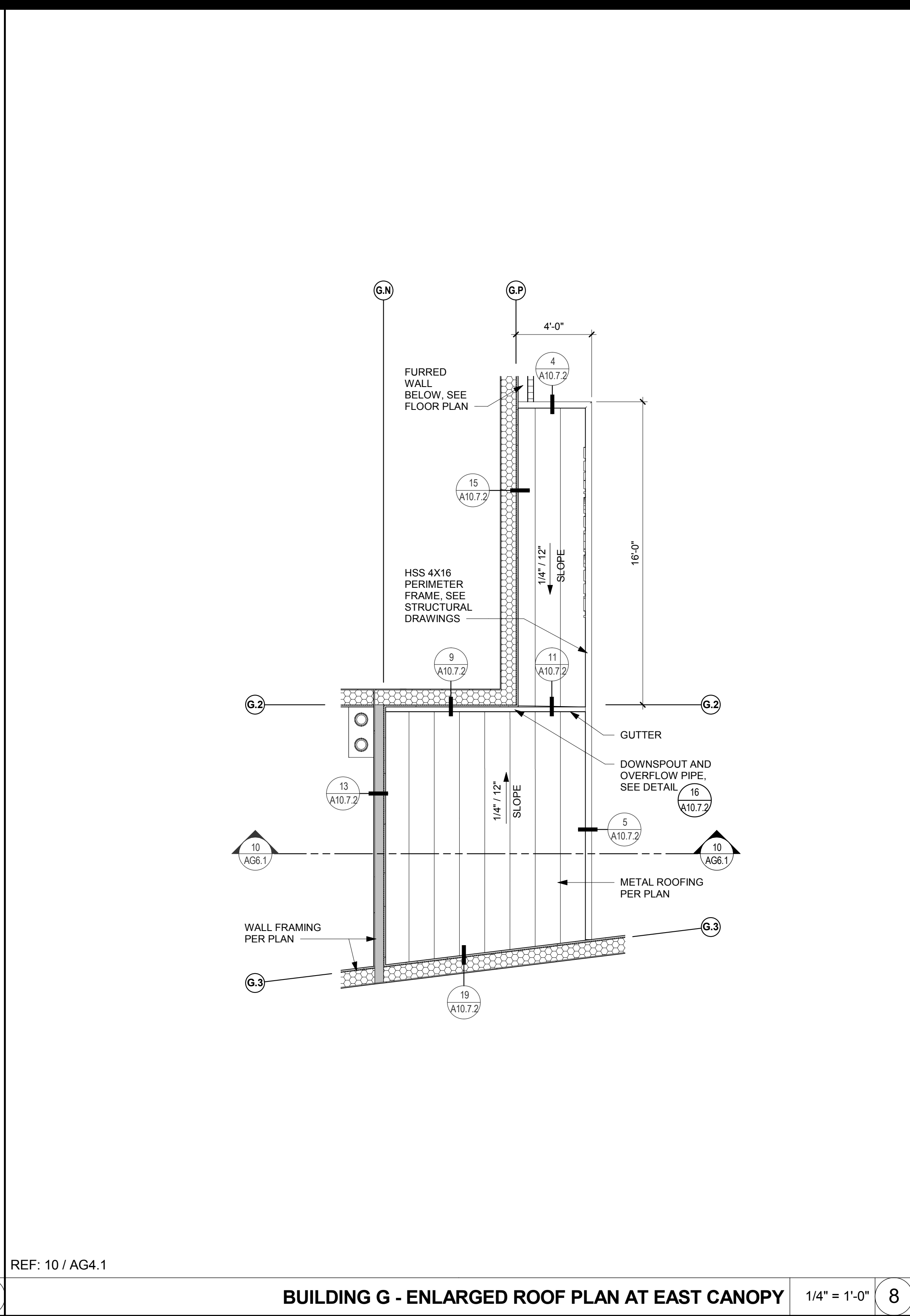
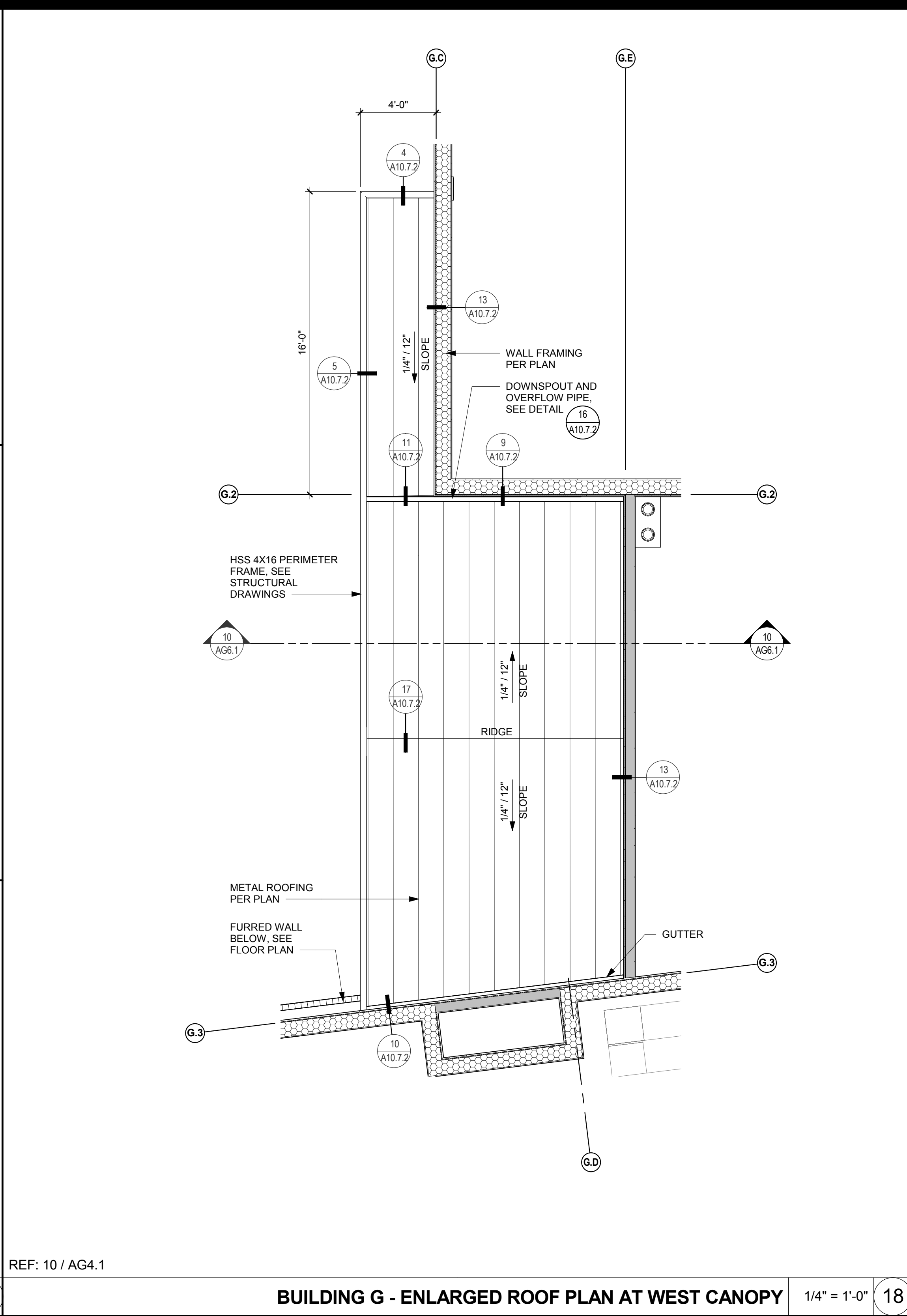
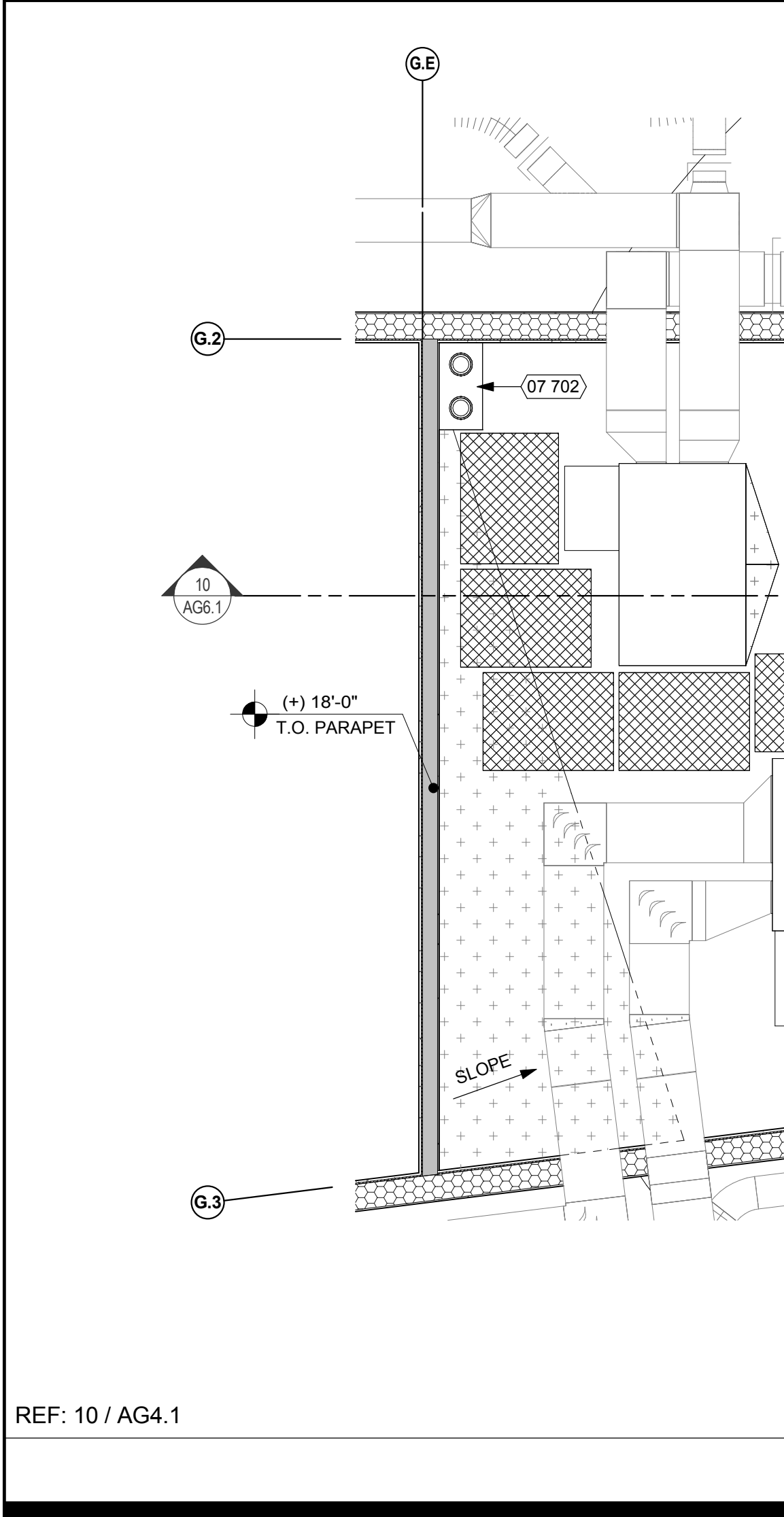
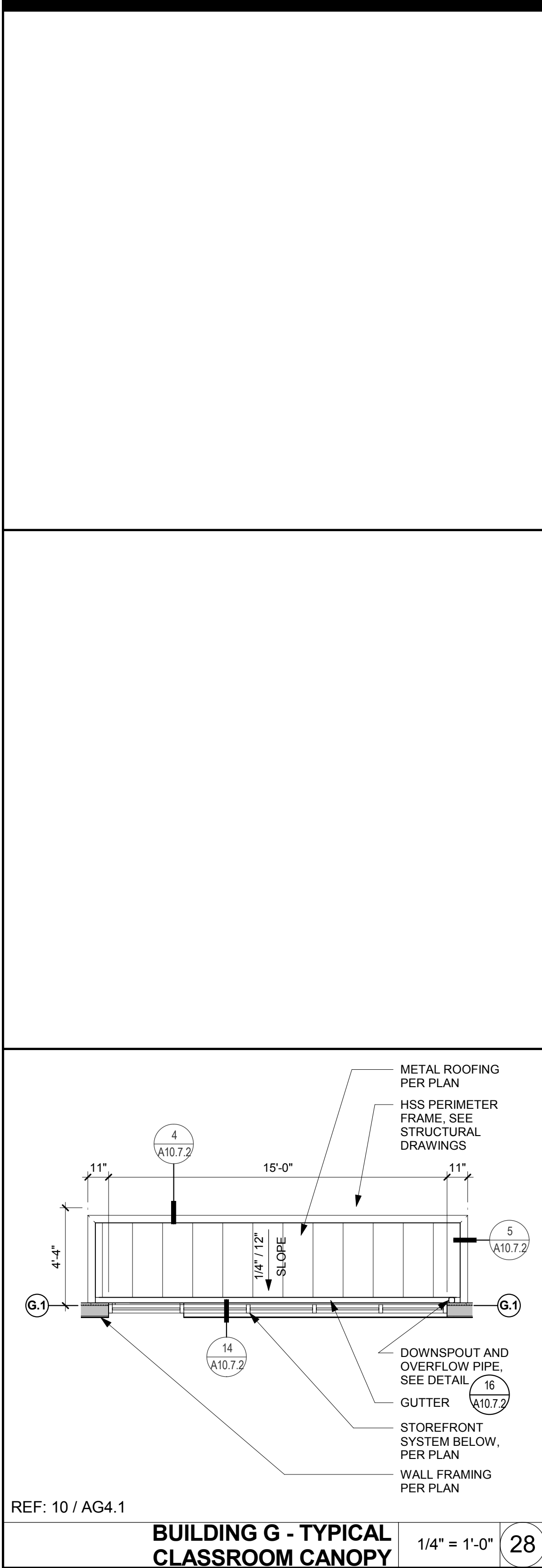
Project Number

19003

Drawing Number

AG4.1





### KEY NOTES

NUMBER	NOTE
07 702	ROOF ACCESS DOOR, 36"x36"
07 723	ROOFTOP MECHANICAL UNIT (SEE MECHANICAL DWGS.)
23 301	EXPOSED DUCTWORK (SEE MECHANICAL DWGS.)
23 310	DUCTWORK (SEE MECHANICAL DWGS.)
23 311	MECHANICAL WALL LOUVER (SEE MECHANICAL DWGS.)

### GENERAL NOTES

**GENERAL**

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- ALL ROOF MATERIALS TO BE CLASS A RATED.
- MINIMUM THICKNESS OF ROOF INSULATION TO BE 6" AT LOW POINT OF ROOF DRAIN SUMP.
- FLASHING TERMINATIONS SHALL HAVE WATER-TIGHT SHEET METAL CLOSURES WITH WATERPROOF SELF-ADHERED MEMBRANE UNDERLAYMENT.
- NAILER THICKNESS SHALL MATCH ADJACENT INSULATION THICKNESS WITHIN 1/4" TOLERANCE.

**SLOPES AND DRAINAGE**

- SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS, ETC.) SHALL BE 1/4" / FT. SLOPE MINIMUM AS INDICATED AT ALL ROOF AREAS, INCLUDING VALLEYS, AND STEEPER AS REQUIRED TO MEET VALLEY SLOPE CRITERIA.
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- PROVIDE TAPERED CRICKET ON THE HIGH SIDE OF PENETRATIONS WIDER THAN 24".
- MINIMUM SLOPE 1/4" / FT. TO DRAIN AT ALL LOCATIONS.

**EQUIPMENT**

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- FOR DUCT THRU WALL PENETRATION, SEE DETAIL 21 / A10.7.1

### LEGEND

	ROOF DRAIN AND OVERFLOW, SEE DETAIL 10 / A10.7.2
	ROOF WALKWAY PADS 13 / A10.7.3
	MODIFIED BITUMEN ROOFING
	ROOF CRICKET, TAPERED RIGID INSULATION, SLOPED TO DRAIN PER DETAIL 28 / A10.7.3
	SKYLIGHT, SEE DETAIL 2 / A10.7.1
	STANDING SEAM METAL ROOFING, 16" PLANK & PENCIL RIBS PANEL, OVER COVER BOARD AND INSULATION (BUILDINGS F & G ONLY)
	STANDING SEAM METAL ROOFING, 16" FLAT PANEL

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NO.	REMARKS	DATE

**REVISION HISTORY**

NO.	REMARKS	DATE

**DRAWING STATUS**

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☐ DSA BACK CHECK  
☐ BIDDING  
☐ CONSTRUCTION

DATE: 05/20/2019

**KEY PLAN**

**WASHINGTON UNIFIED SCHOOL DISTRICT**  
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WEST SACRAMENTO, CA 95691

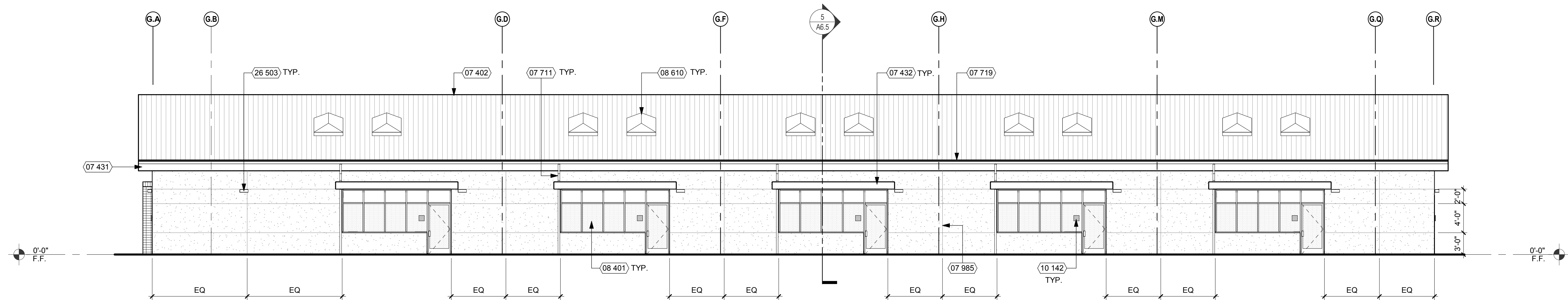
DSA SUBMITTAL

**WESTMORE OAKS SCHOOL**  
NEW BLDGS F & G AND BLDG M ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

**BUILDING G ENLARGED ROOF PLAN**

Date	05/20/2019	Project Number	19003
Scale	As indicated	Drawing Number	AG4.2
Drawn	AA	Checked	AM

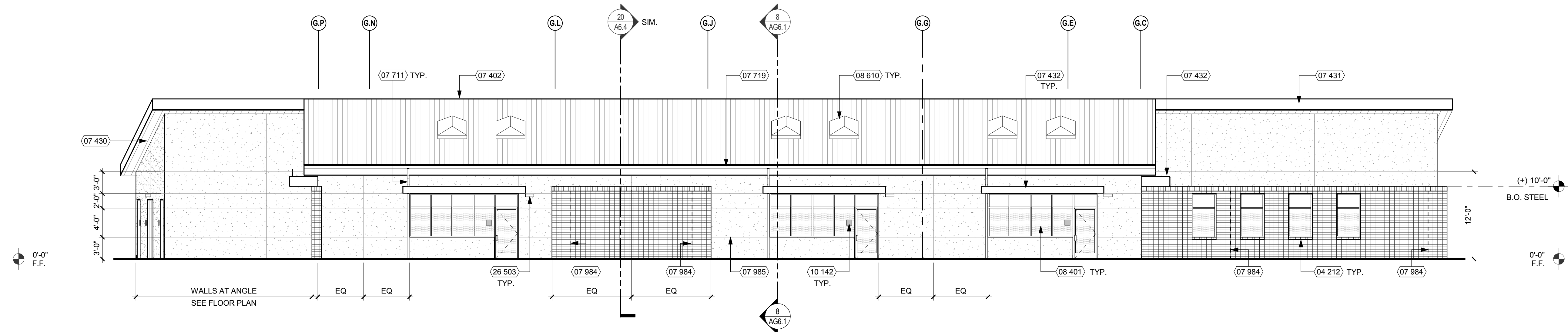




BUILDING G - SOUTH ELEVATION

1/8" = 1'-0"

8



BUILDING G - NORTH ELEVATION

1/8" = 1'-0"

10

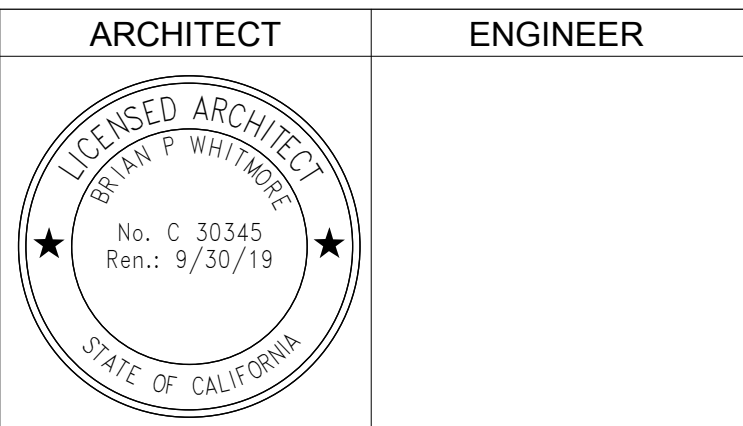
## KEY NOTES

NUMBER	NOTE
04 212	BRICK WINDOW SILL
07 402	METAL ROOFING
07 430	METAL SOFFIT
07 431	FASCIA, PAINTED P5
07 432	HSS CANOPY FASCIA, PAINTED P5
07 711	DOWNSPOUT, PAINT TO MATCH ADJACENT WALL
07 719	GUTTER, PAINTED P5
07 984	EXPANSION JOINT. BRICK EXPANSION JOINTS ARE REQUIRED 3'-0" MAX. FROM CORNERS AND @ 30'-0" O.C. MAX.
07 985	PLASTER CONTROL JOINT
08 401	STOREFRONT SYSTEM, PER WINDOW SCHEDULE
08 610	SKYLIGHT (SEE DETAIL 2/A10.7.3)
10 142	SIGNAGE PER CODE ANALYSIS PLAN
26 503	EXTERIOR WALL MOUNTED LIGHT FIXTURE (SEE ELECTRICAL DWGS.)

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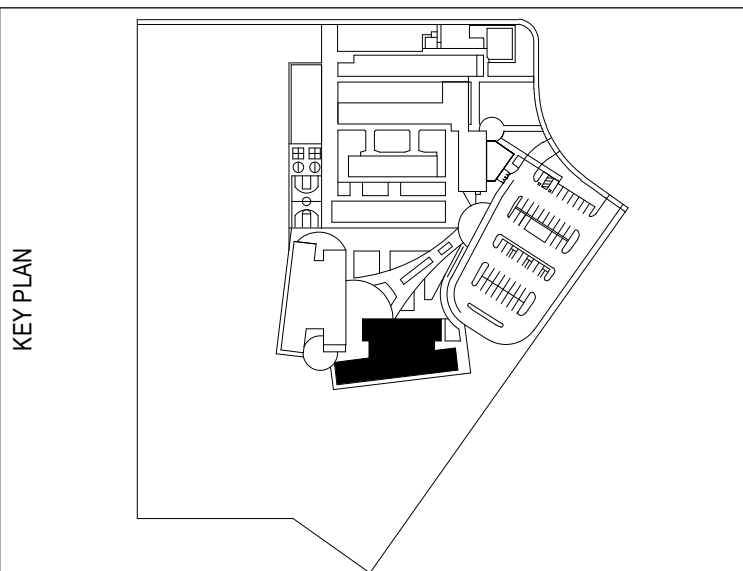
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WASHINGTON UNIFIED  
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930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

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WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING G EXTERIOR  
ELEVATIONS

Date 05/20/2019	Project Number 19003
Scale 1/8" = 1'-0"	Drawing Number AG5.1
Drawn AA	Checked AM

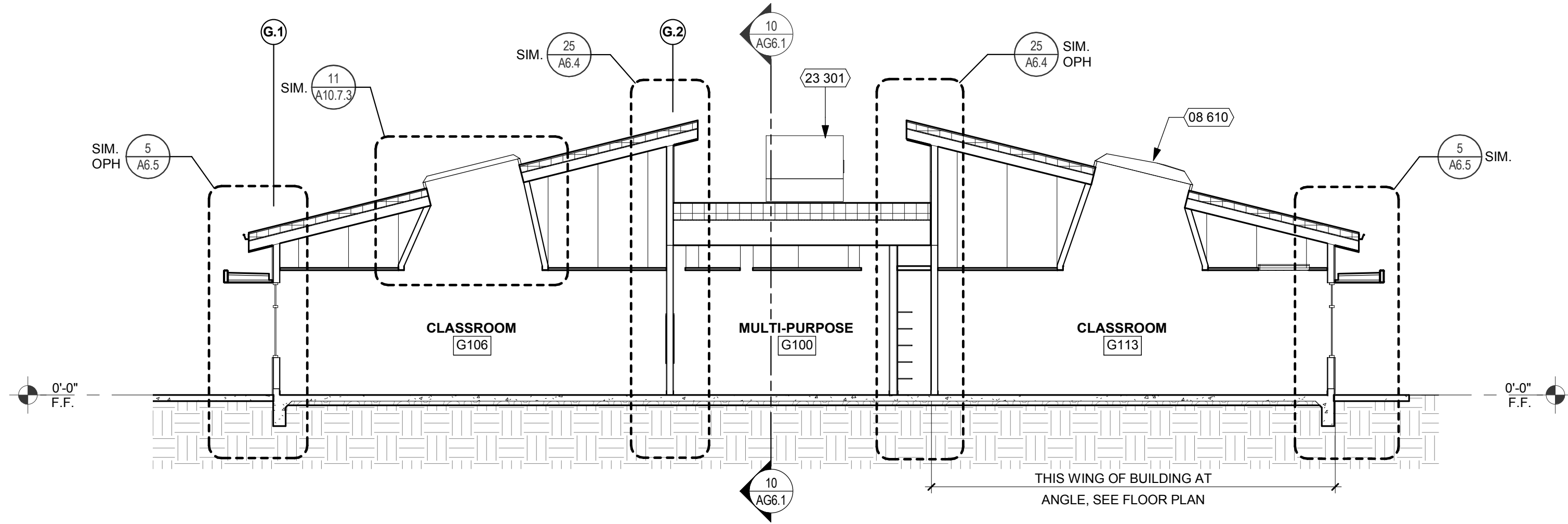




## AG5.2

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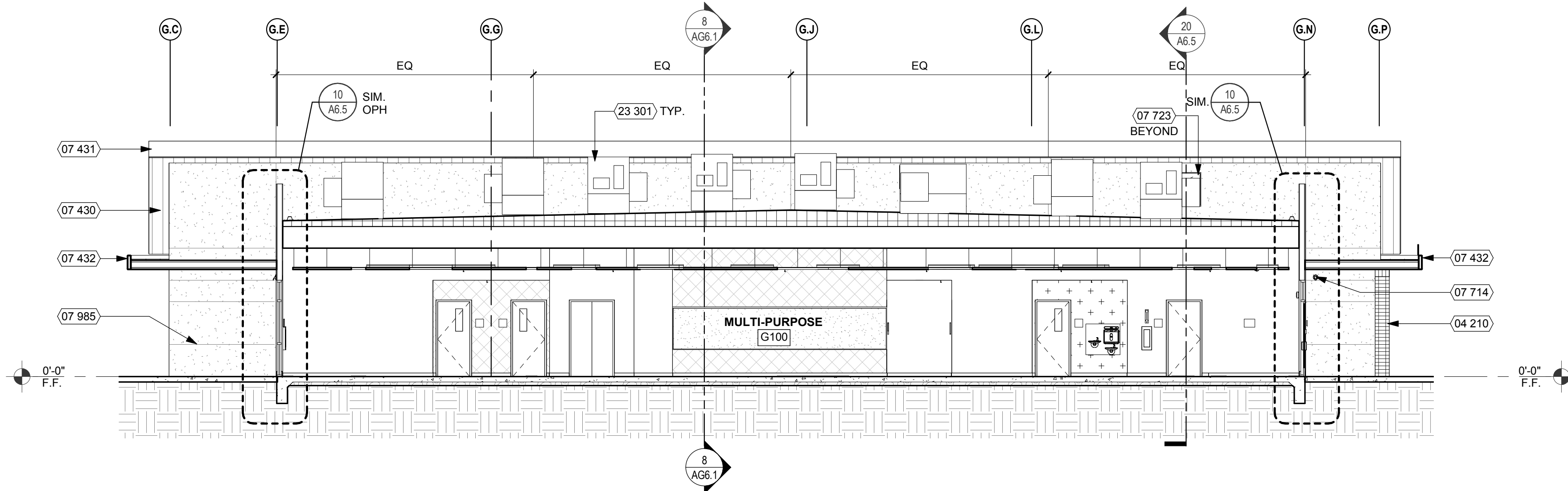


REF: 10 / AG2.1

BUILDING G - NORTH/SOUTH BUILDING SECTION

1/8" = 1'-0"

8



REF: 10 / AG2.1

BUILDING G - EAST/WEST BUILDING SECTION

1/8" = 1'-0"

10

KEY NOTES

NUMBER	NOTE
04 210	FULL BRICK VENEER WALL, STACK BOND (SEE DETAIL 2/A10.1)
07 430	METAL SOFFIT
07 431	FASCIA, PAINTED P5
07 432	HSS CANOPY FASCIA, PAINTED P5
07 714	DOWNSPOUT NOZZLE (SEE DETAIL 24/A10.7.1)
07 723	ROOF ACCESS DOOR, 36"x36"
07 985	PLASTER CONTROL JOINT
08 610	SKYLIGHT (SEE DETAIL 2/A10.7.3)
23 301	ROOFTOP MECHANICAL UNIT (SEE MECHANICAL DWGS.)

GENERAL NOTES

- FOR FINISH INFORMATION, REFER TO INTERIOR ELEVATIONS AND FINISH SCHEDULE.
- SEE REFLECTED CEILING PLANS FOR CEILING INFORMATION.
- SEE FLOOR PLANS FOR WALL TYPES.

LEGEND

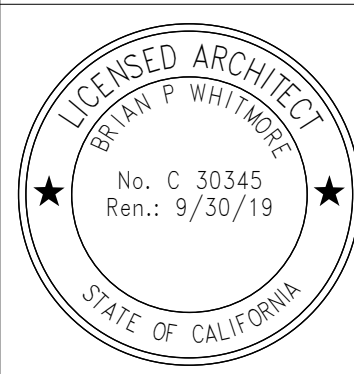
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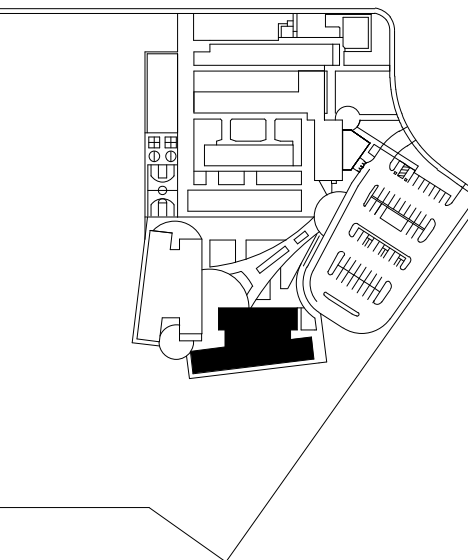
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KEY PLAN



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WEST SACRAMENTO, CA 95691

BUILDING G BUILDING  
SECTIONS

Date

05/20/2019

Scale

As indicated

Drawn

AA

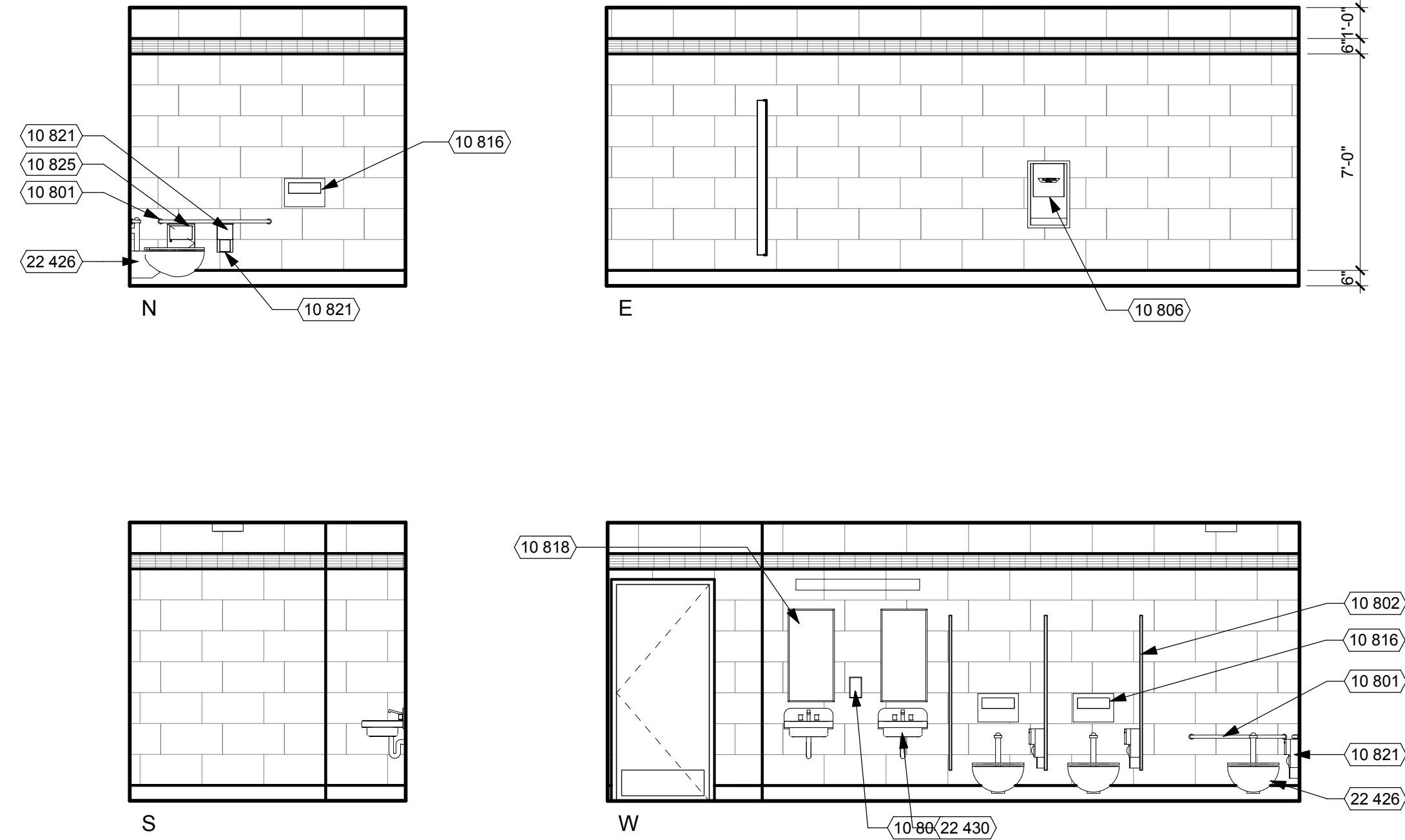
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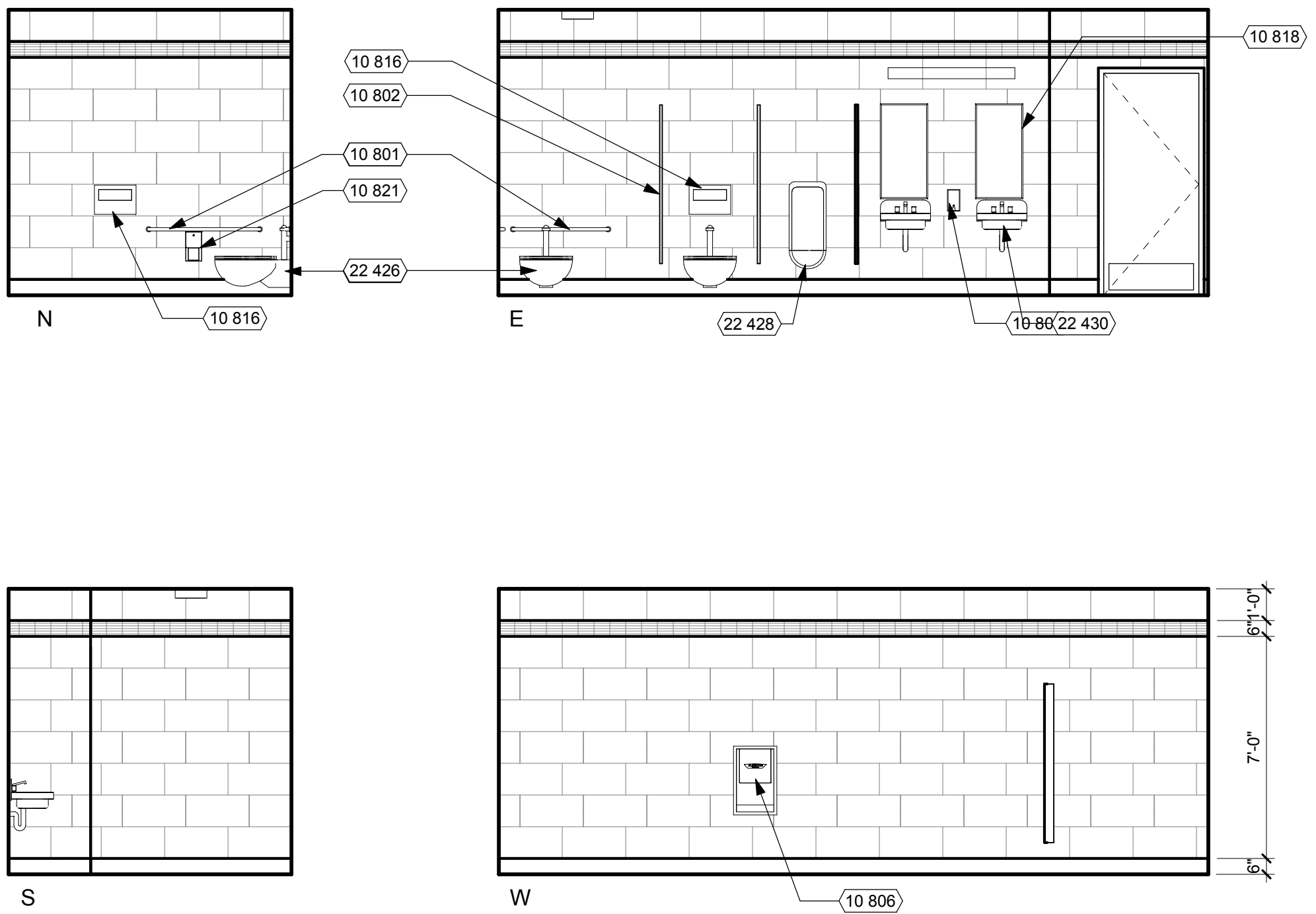
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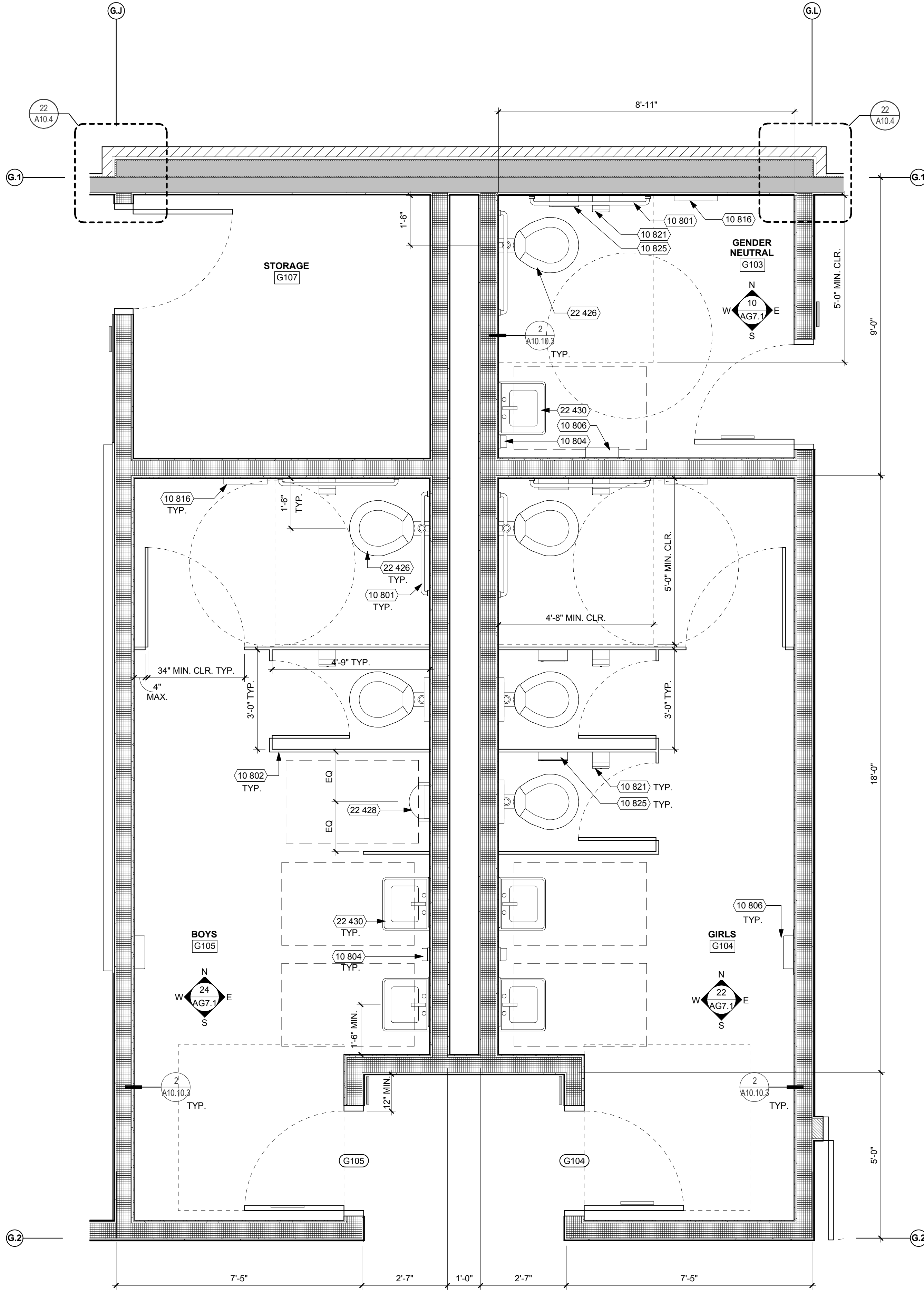




G104-GIRLS 1/4" = 1'-0" 22



G105-BOYS 1/4" = 1'-0" 24



REF: 10 / AG2.1

BUILDING G - ENLARGED RESTROOMS FLOOR PLANS 1/2" = 1'-0" 9



G103-UNISEX 1/4" = 1'-0" 10

## KEY NOTES

NUMBER	NOTE
10 801	ACCESSIBLE GRAB BAR (SEE DETAIL 11/A10.10.2)
10 802	TOILET PARTITION (SEE DETAIL 18/A10.10.2)
10 804	SOAP DISPENSER
10 806	ELECTRIC HAND DRYER
10 816	TOILET SEAT COVER DISPENSER
10 818	MIRROR
10 821	TOILET PAPER DISPENSER
10 825	SANITARY NAPKIN DISPOSAL
22 426	ACCESSIBLE WATER CLOSET
22 428	ACCESSIBLE URINAL
22 430	LAVATORY

## GENERAL NOTES

- GENERAL
- DIMENSIONS
    - ALL MINIMUM CLEARANCE DIMENSIONS FOR PLUMBING FIXTURES ARE FROM FACE OF WALL FINISH TO CENTER OF FIXTURE, U.O.N.
    - ALL DIMENSIONS MARKED "MIN. CLR." OR "CLR." ARE TO/ FROM FACE OF WALL FINISH (F.O.F.).
  - SEE FINISH PLAN FOR INTERIOR FINISHES.
  - PROVIDE GLASSMATT BACKER BOARD AT ALL TILED WALLS AND WALLS WITHIN 48" OF ANY PLUMBING FIXTURE.
  - ALL DRINKING FOUNTAIN ALCOVES TO BE FINISHED WITH WATER RESISTANT WALL MATERIAL. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS.
  - ALL FLOOR SLOPES IN RESTROOMS ARE NOT TO EXCEED 1/48 IN ANY DIRECTION.
  - FOR FLOOR DRAIN, SEE DETAIL 1 / A10.10.3.
- ACCESSORIES
- ALL RESTROOM FIXTURES AND ACCESSORIES MOUNTING HEIGHTS AND LOCATIONS TO USE ADULT DIMENSIONS.
  - FOR TYPICAL RESTROOM ACCESSORY MOUNTING HEIGHTS, ACCESSIBLE DIMENSIONS, SEE SHEET A10.10.2.
  - TOILET ACCESSORIES LOCATED ON OR WITHIN WALLS SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE (CBC SECTION 1210.2.2).
  - PLUMBING FIXTURES TO HAVE SOLID BLOCKING AS REQUIRED BY CODE, SEE DETAIL 29 / A10.10.1.
  - FOR MOP SINK WITH BROOM RACK, SEE DETAIL 6 / A10.10.3.
- STALLS AND PARTITIONS
- REGARDLESS OF STALL CONFIGURATION, A 48" LONG MINIMUM CLEARANCE FLOOR SPACE SHALL BE PROVIDED IN FRONT OF THE ACCESSIBLE WATER CLOSET.
  - ALL ACCESSIBLE TOILET PARTITION DOORS TO BE 34" WIDE MINIMUM AND ALL NON-ACCESSIBLE TOILET PARTITION DOORS SHALL NOT BE LESS THAN 2'-2".
  - PARTITION STILE WIDTHS SHALL NOT EXCEED 4".
  - FOR PARTITION DETAILS, SEE DETAIL 19 / A10.10.2.
  - INSTALL (1) COAT HOOK CENTERED ON THE BACK OF EVERY STALL DOOR, 40" A.F.F. AT ACCESSIBLE STALLS AND 72" A.F.F. AT NON-ACCESSIBLE STALLS.
  - FLUSH VALVE TO BE LOCATED AT WIDE SIDE OF STALL SPACE.

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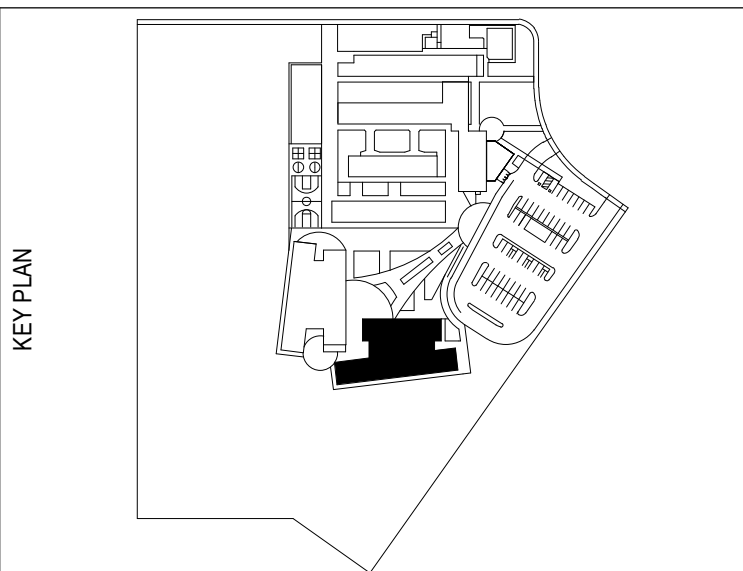
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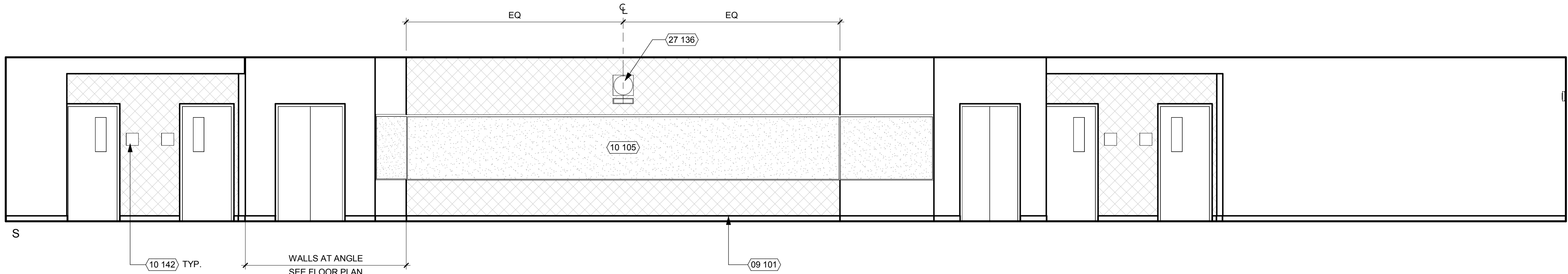
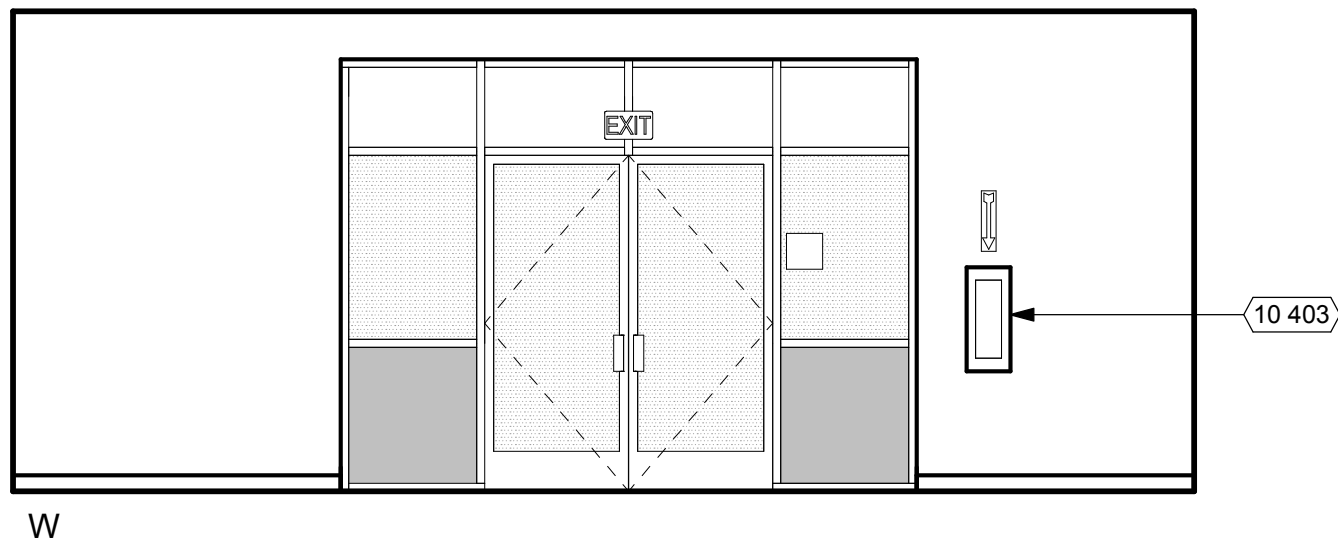
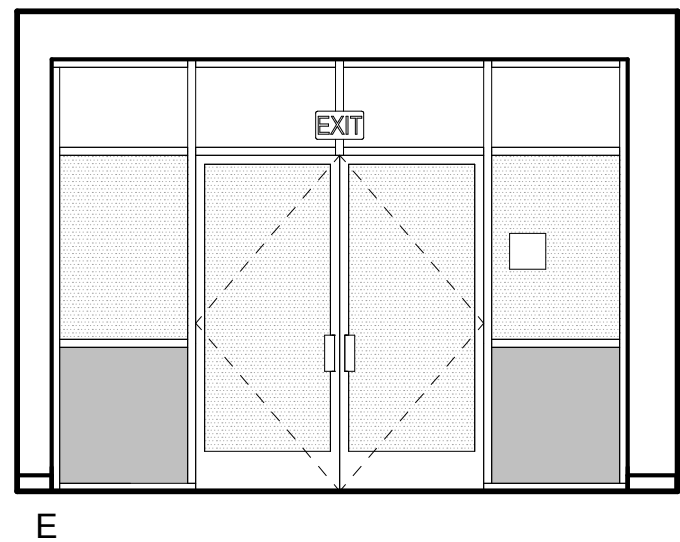
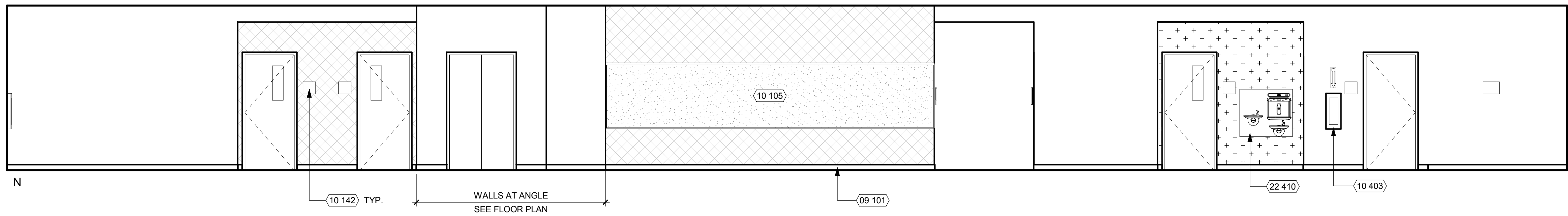
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BUILDING G TOILET  
ROOM PLANS AND  
ELEVATIONS

Date 05/20/2019	Project Number 19003
Scale As indicated	Drawing Number AG7.1
Drawn AA	Checked AM





G100-MULTIPURPOSE

1/4" = 1'-0"

8

GENERAL NOTES

- SEE ROOM FINISH SCHEDULE FOR FINISH INFORMATION AND LEGEND.
- ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE P-1 UNLESS NOTED OTHERWISE.
- SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS AND FINISHES.
- SEE FLOOR PLAN FOR WALL TYPES AND DOOR NUMBERS.
- ALL EXPOSED STRUCTURAL ROOF FRAMING TO BE PAINTED.
- ALL ACCENT WALL PAINT TO BE TERMINATED AT EITHER INSIDE CORNER AND/OR REVEALS.
- PROVIDE BACKING PLATES OR BLOCKING IN WALLS FOR ALL WALL MOUNTED EQUIPMENT SUCH AS SHELVING, MARKER BOARDS, AND DOOR STOPS. SEE DETAIL 29/A10/10.1
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- FOR SIGNAGE TYPES, SEE CODE ANALYSIS FLOOR PLAN.

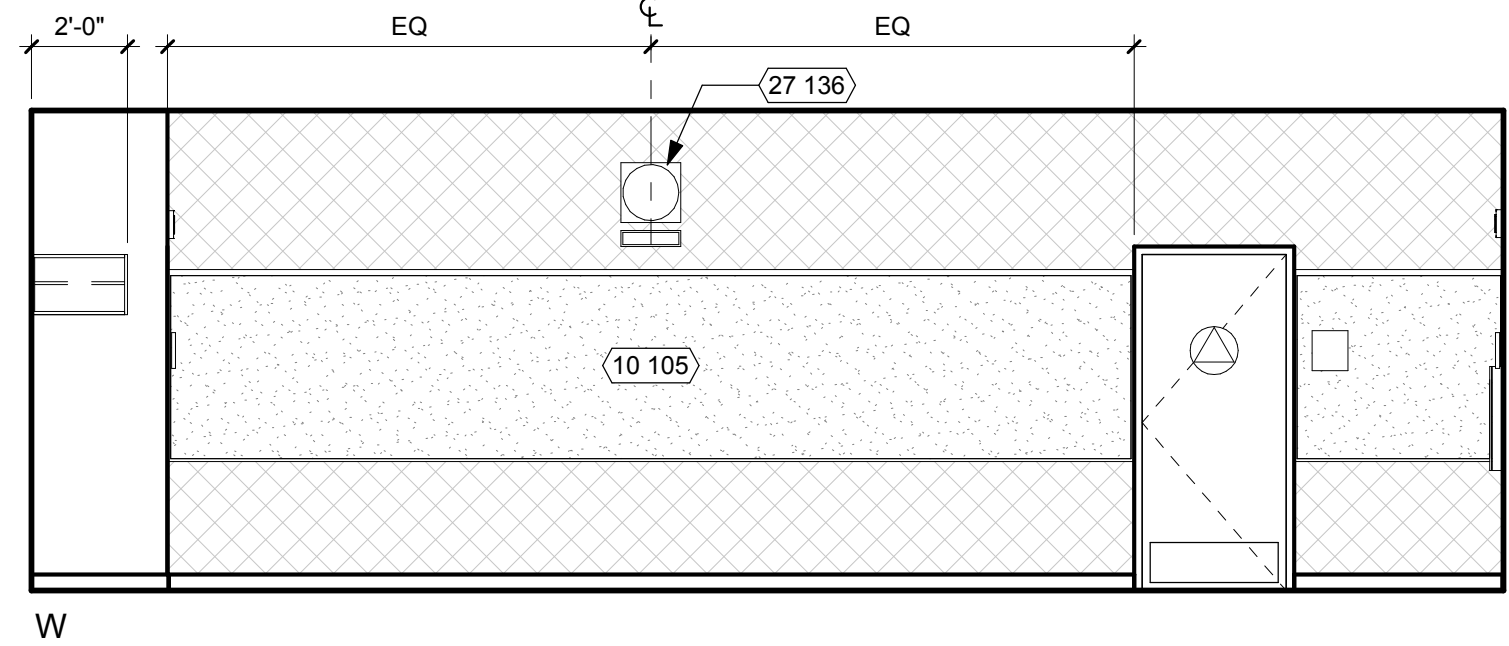
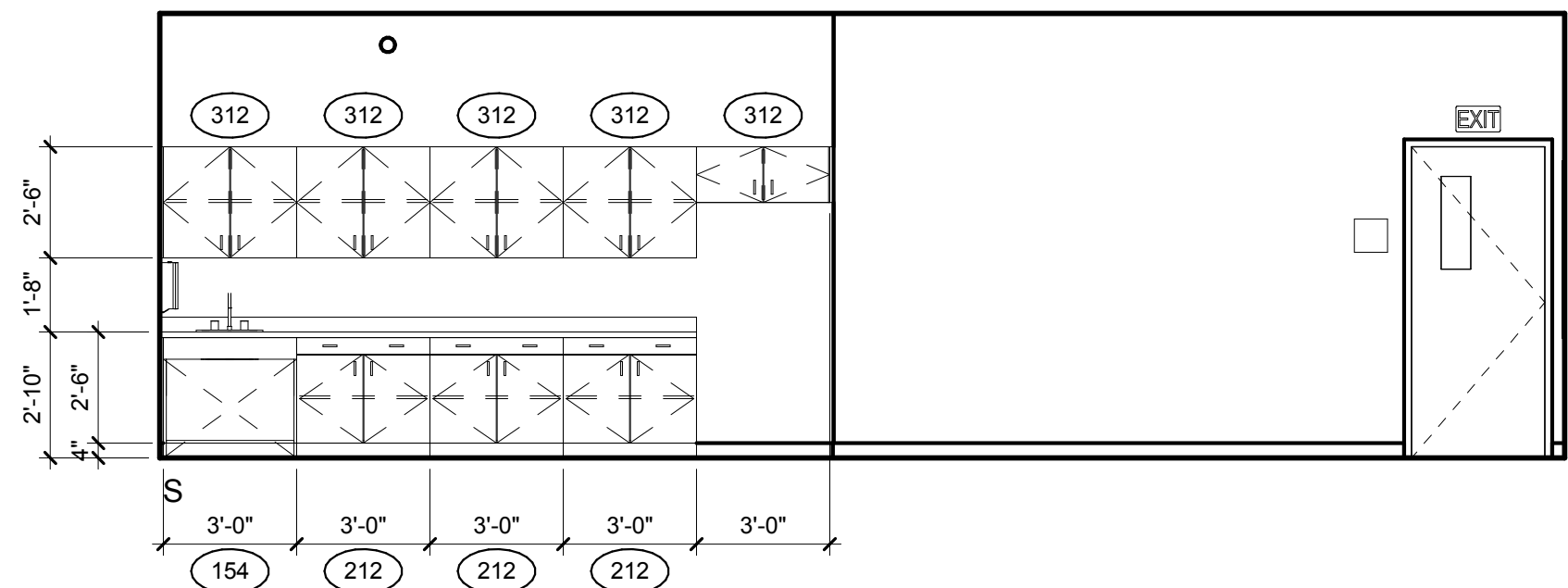
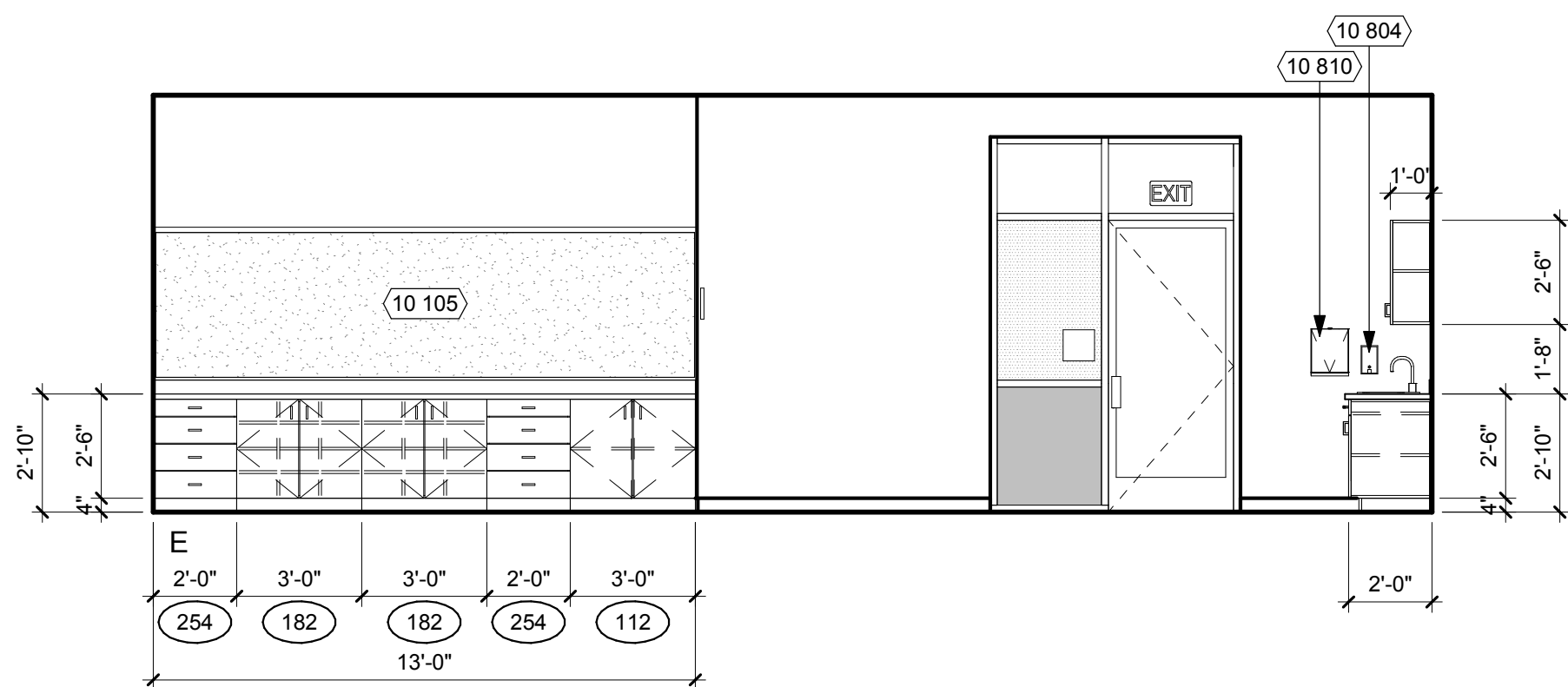
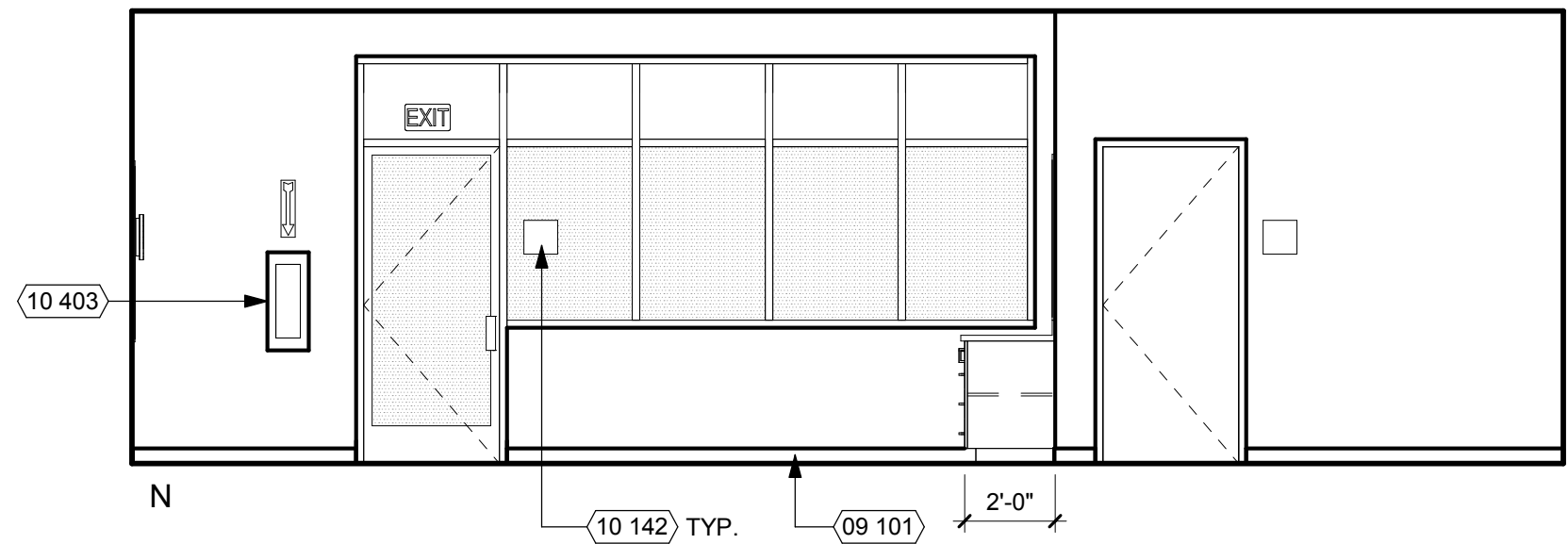
LEGEND

- TACK BOARD
- MARKER BOARD
- FRP2, PER FINISH SCHEDULE
- P2, PER FINISH SCHEDULE
- ETCHED GLAZING, PER WINDOW SCHEDULE

G101-WORKROOM

1/4" = 1'-0"

10



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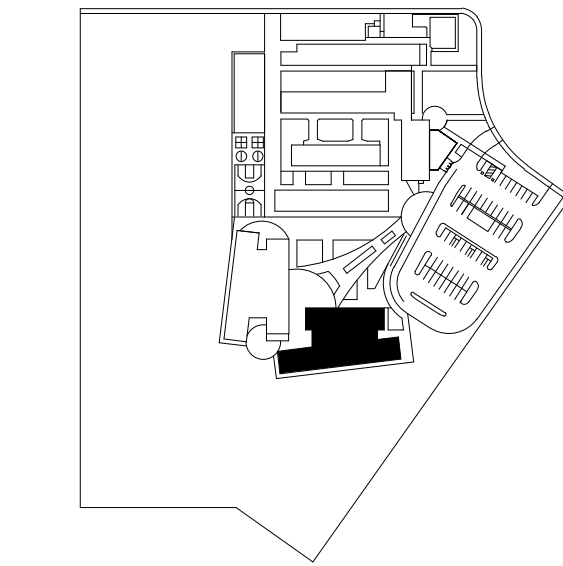
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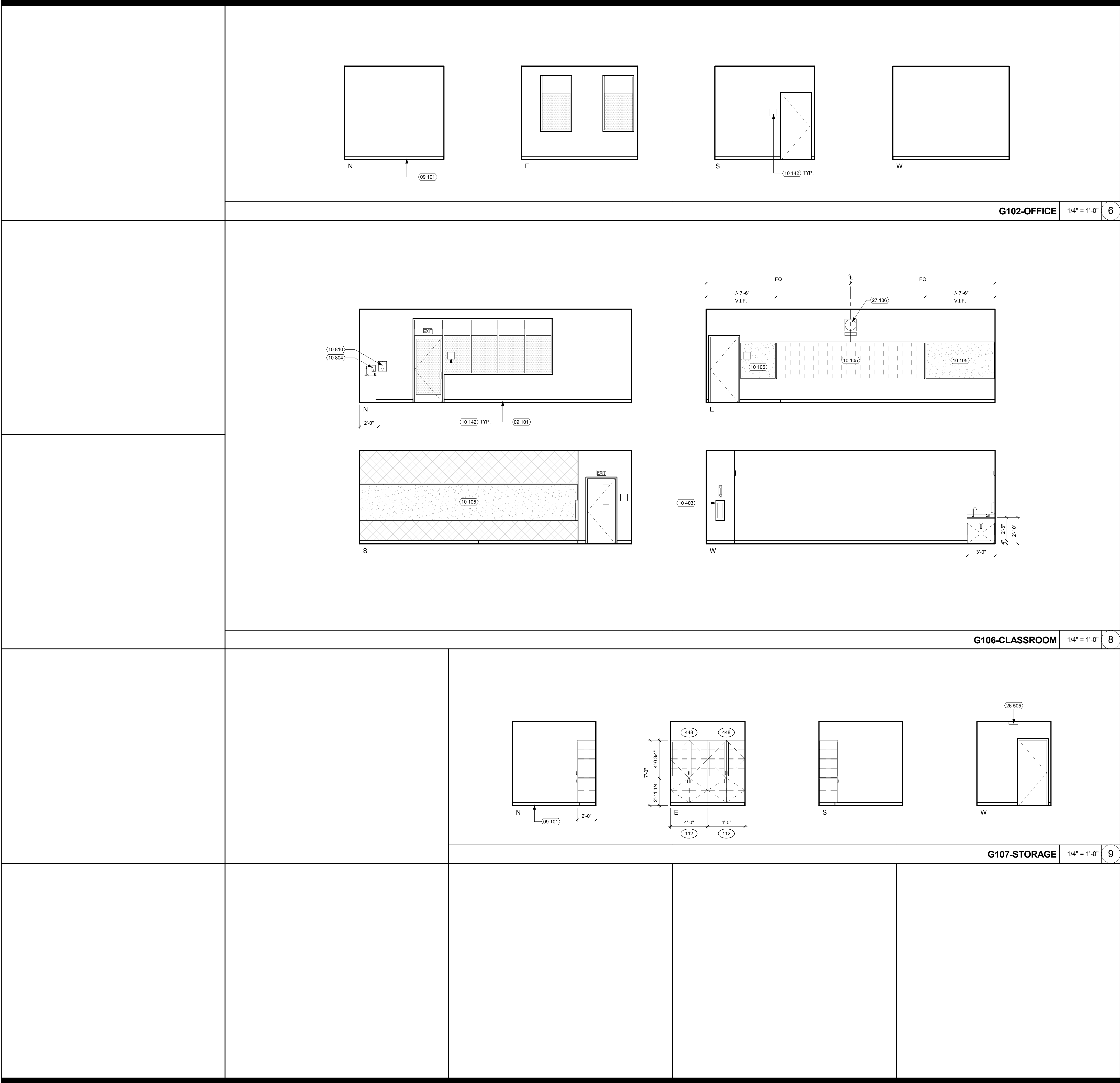
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ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING G INTERIOR  
ELEVATIONS

Date 05/20/2019	Project Number 19003
Scale As indicated	Drawing Number AG8.1
Drawn AA	Checked AM





### KEY NOTES

NUMBER	NOTE
09 101	WALL BASE (SEE FINISH SCHEDULE)
10 105	16"-0" MARKER BOARD W/ TRAY (SEE DETAIL 22/A10.10.2)
10 142	SIGNAGE PER CODE ANALYSIS PLAN
10 403	FIRE EXTINGUISHER (2A-10B:C) IN SEMI-RECESSED CABINET (SEE DETAIL 25/A10.10.2)
10 804	SOAP DISPENSER
10 810	PAPER TOWEL DISPENSER
26 505	LIGHT FIXTURE
27 136	O.F.O.I. CLOCK AND SPEAKER PAGING SYSTEM

### GENERAL NOTES

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- SEE FLOOR PLAN FOR WALL TYPES AND DOOR NUMBERS.
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### LEGEND

	TACK BOARD
	MARKER BOARD
	FRP2, PER FINISH SCHEDULE
	P2, PER FINISH SCHEDULE
	ETCHED GLAZING, PER WINDOW SCHEDULE

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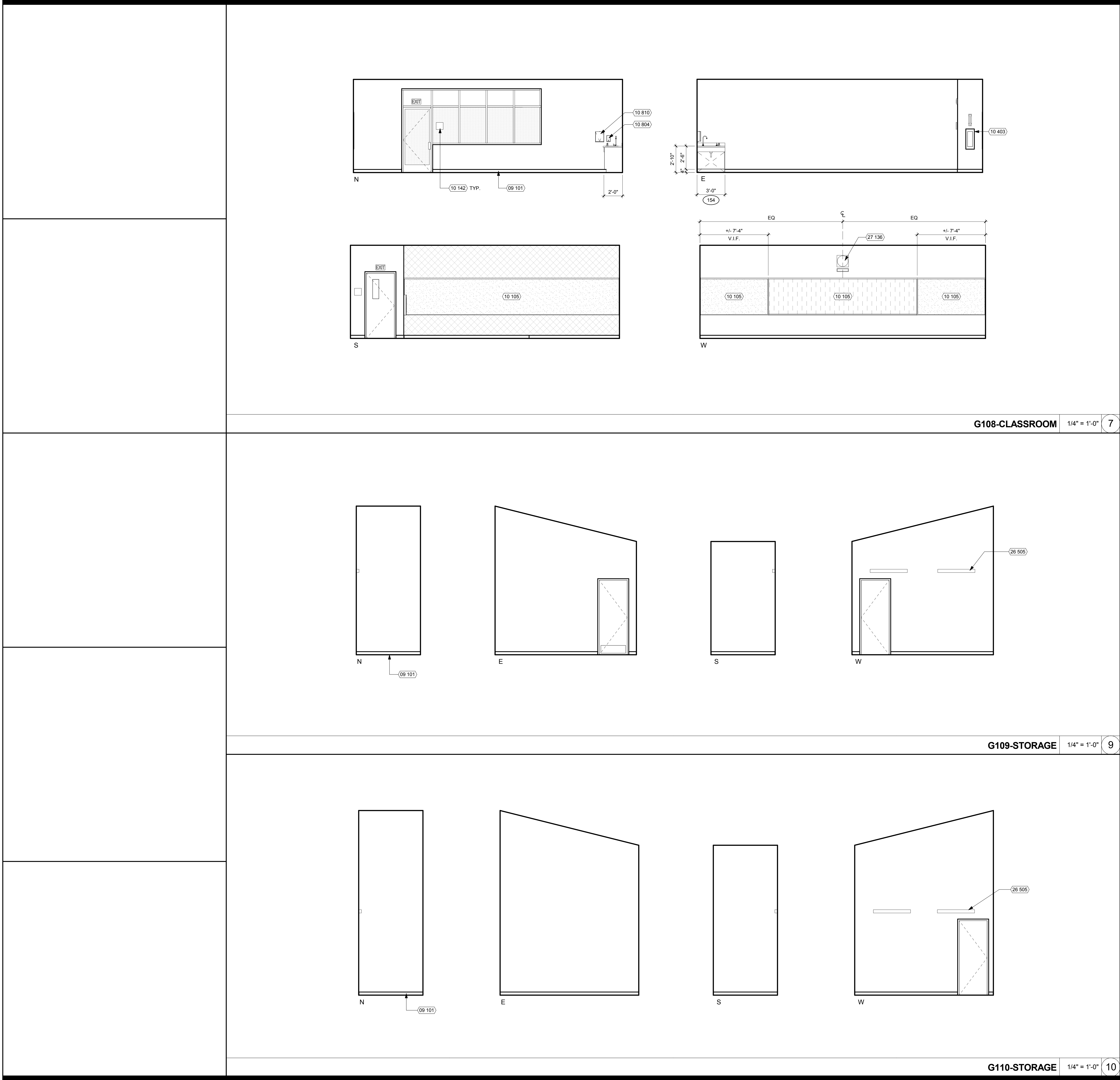
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BUILDING G INTERIOR  
ELEVATIONS

Date	05/20/2019	Project Number	19003
Scale	As indicated	Drawing Number	
Drawn	AA	Checked	AM

AG8.2





KEY NOTES

NUMBER	NOTE
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10 804	SOAP DISPENSER
10 810	PAPER TOWEL DISPENSER
26 505	LIGHT FIXTURE
27 136	O.F.O.I. CLOCK AND SPEAKER PAGING SYSTEM

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LEGEND

	TACK BOARD
	MARKER BOARD
	FRP2, PER FINISH SCHEDULE
	P2, PER FINISH SCHEDULE
	ETCHED GLAZING, PER WINDOW SCHEDULE

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Ren.: 9/30/19

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BUILDING G INTERIOR  
ELEVATIONS

Date

05/20/2019

Scale

As indicated

Drawn

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Project Number

19003

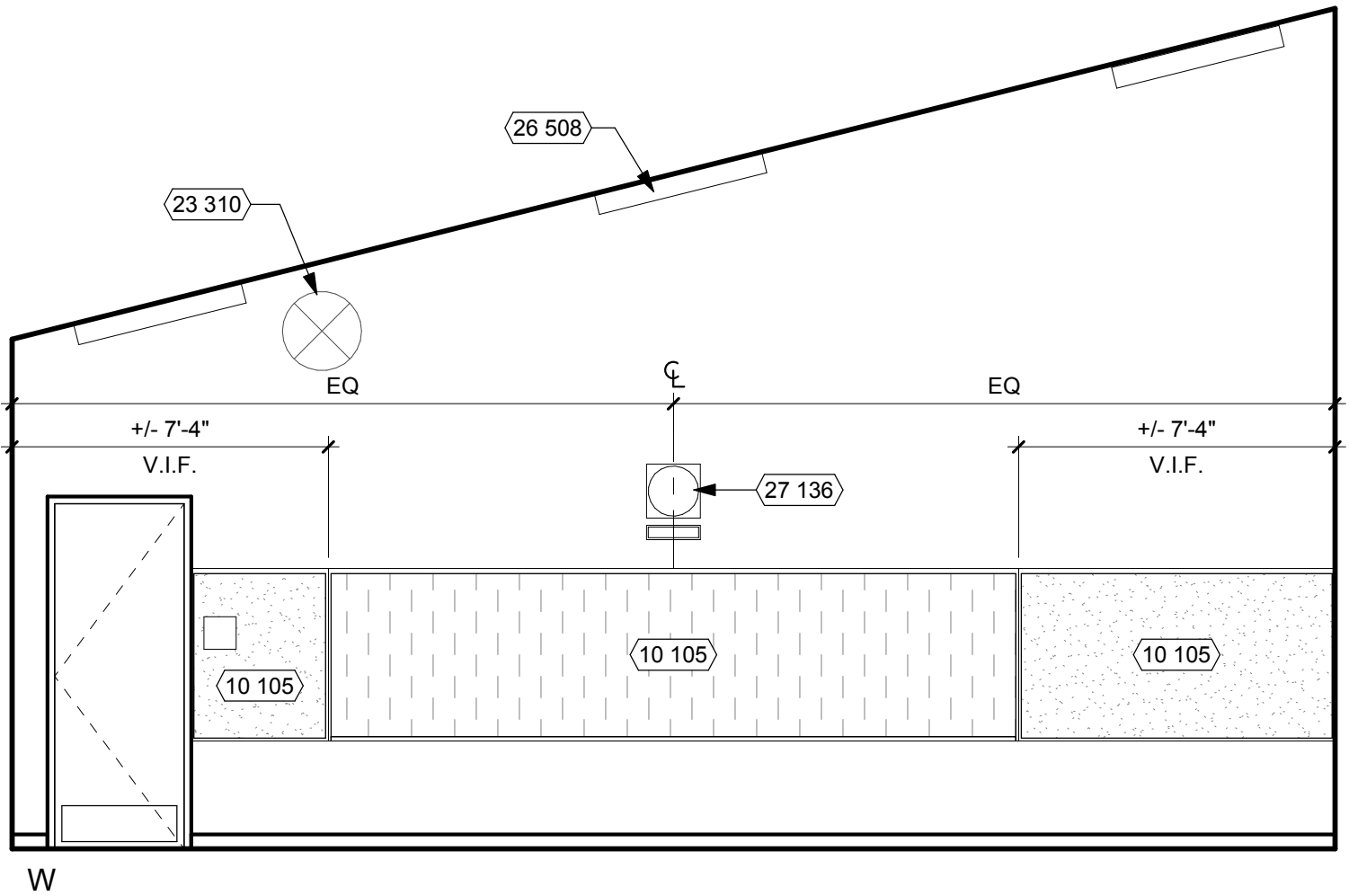
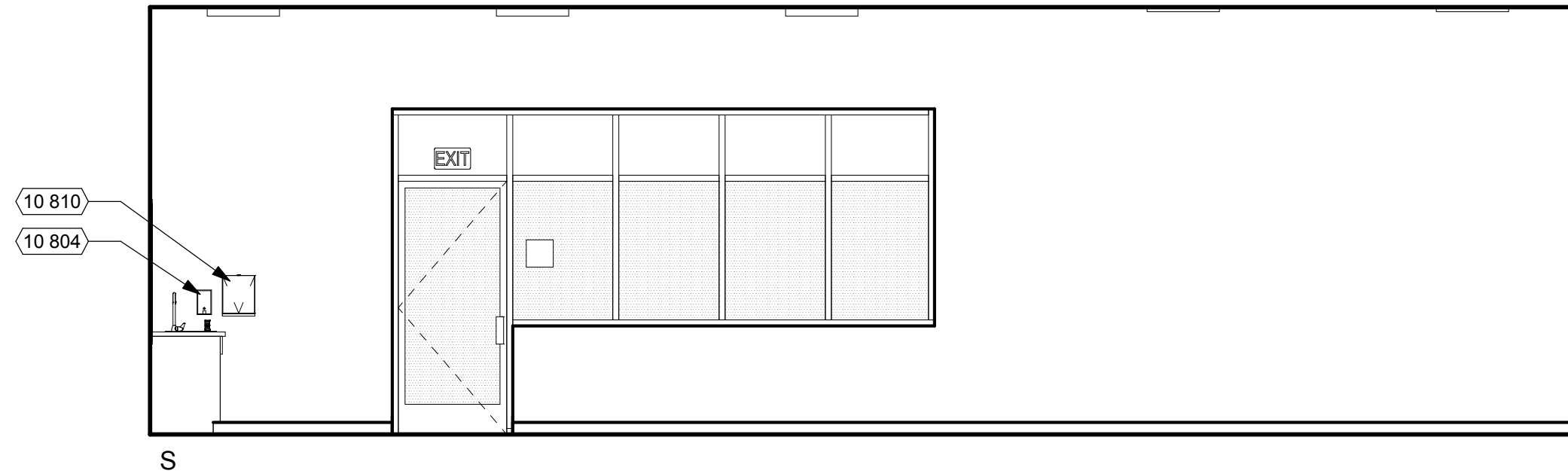
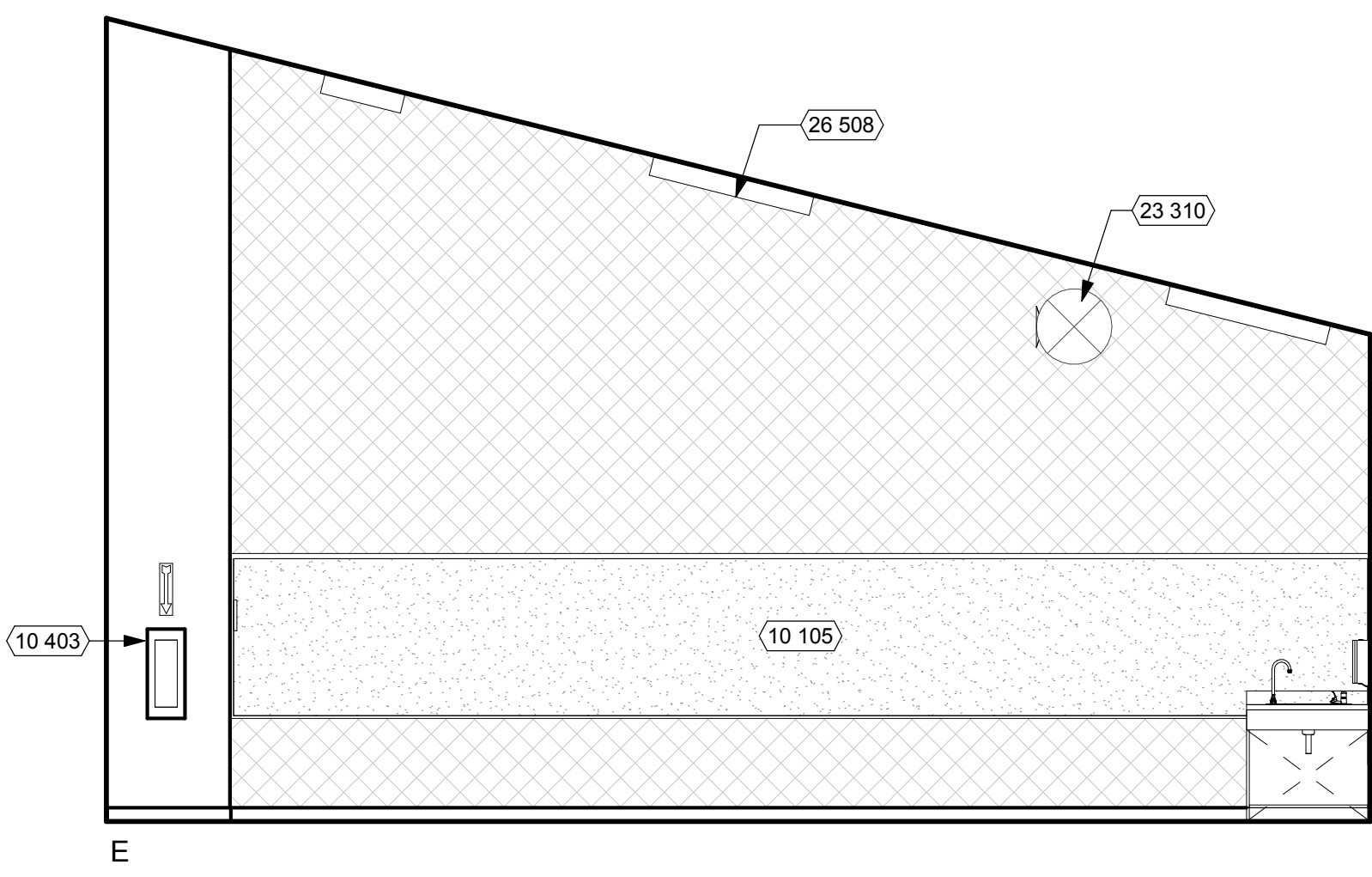
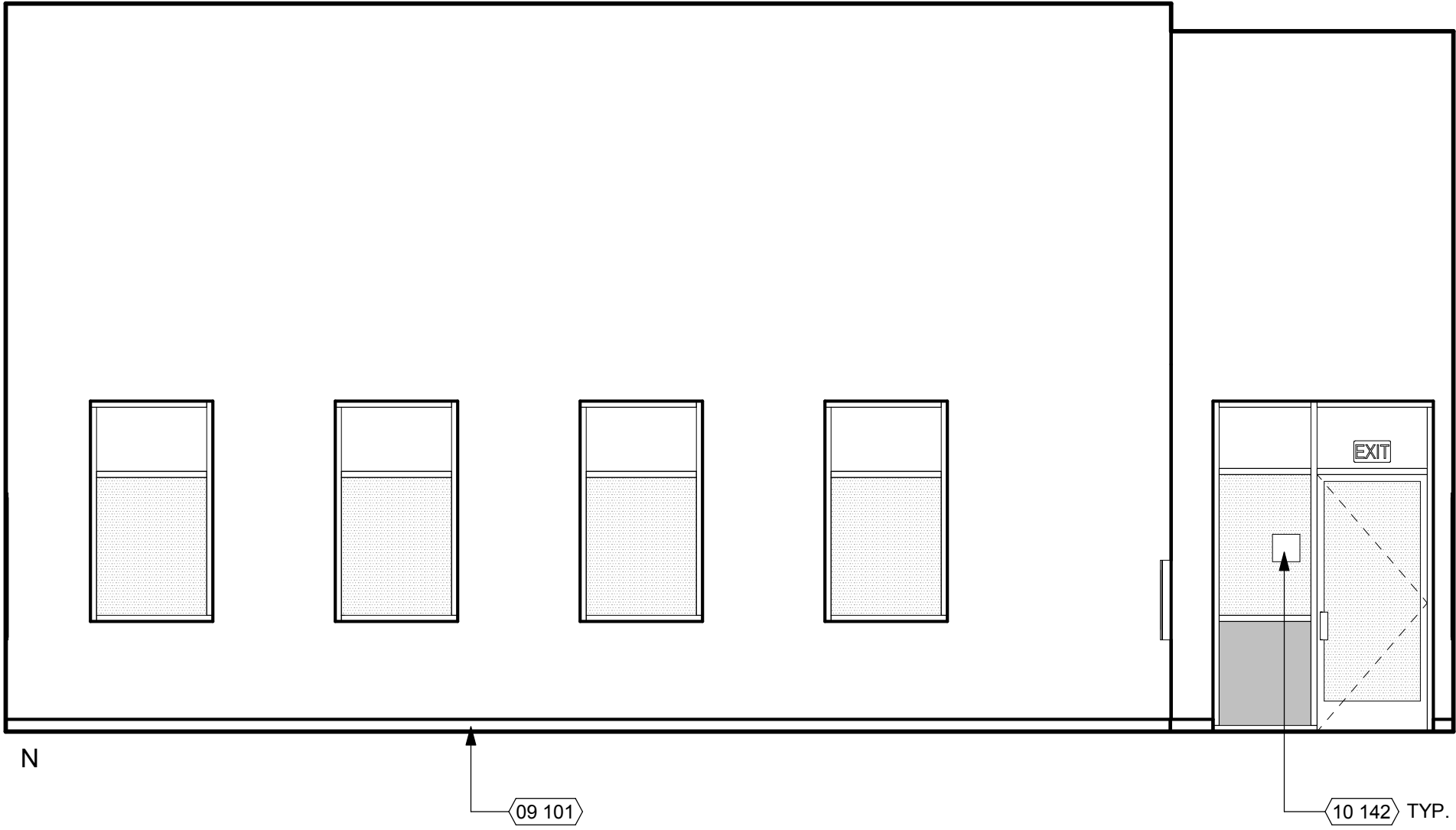
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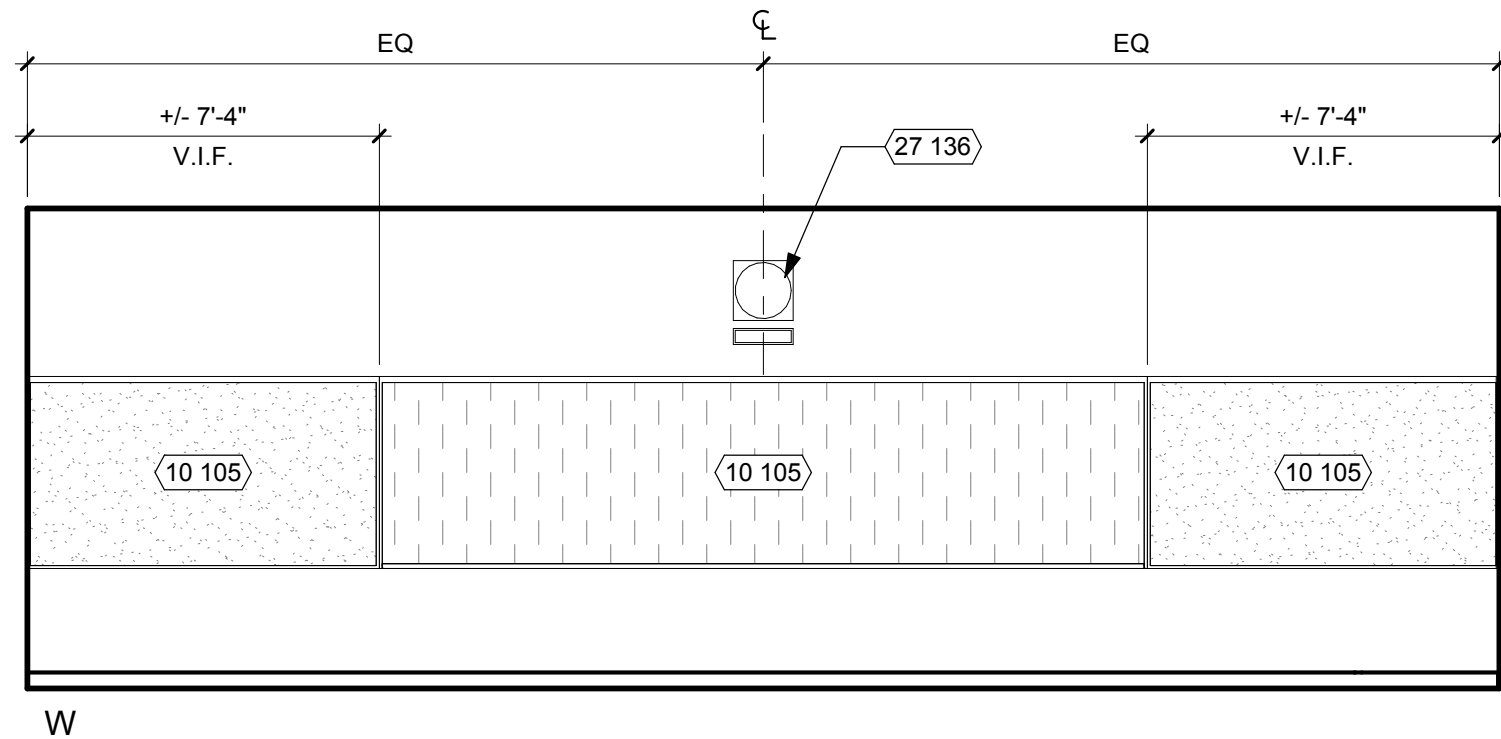
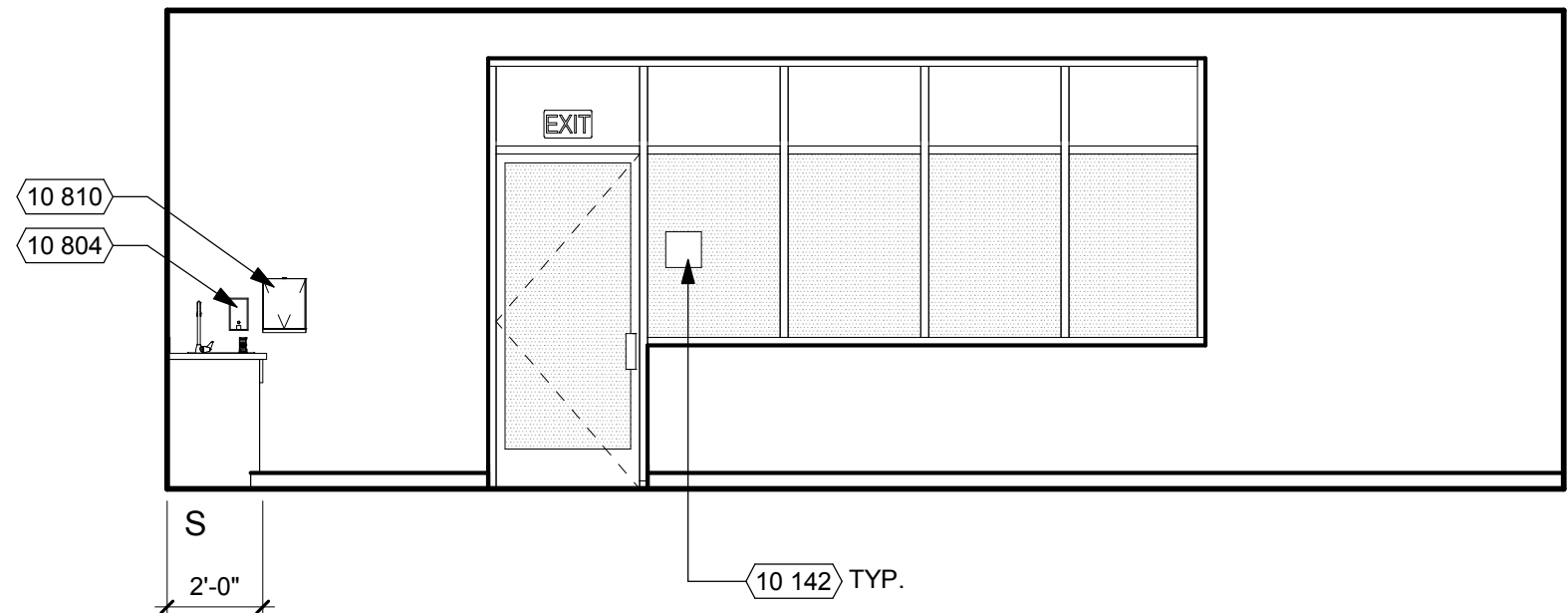
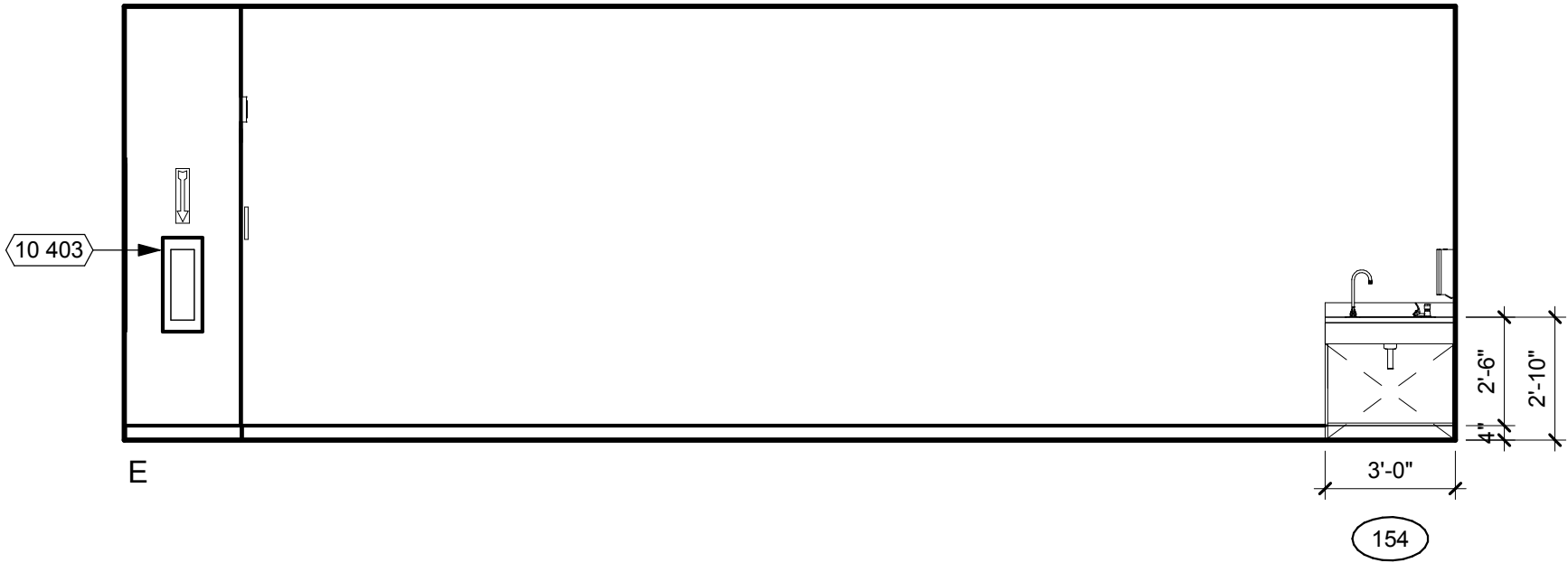
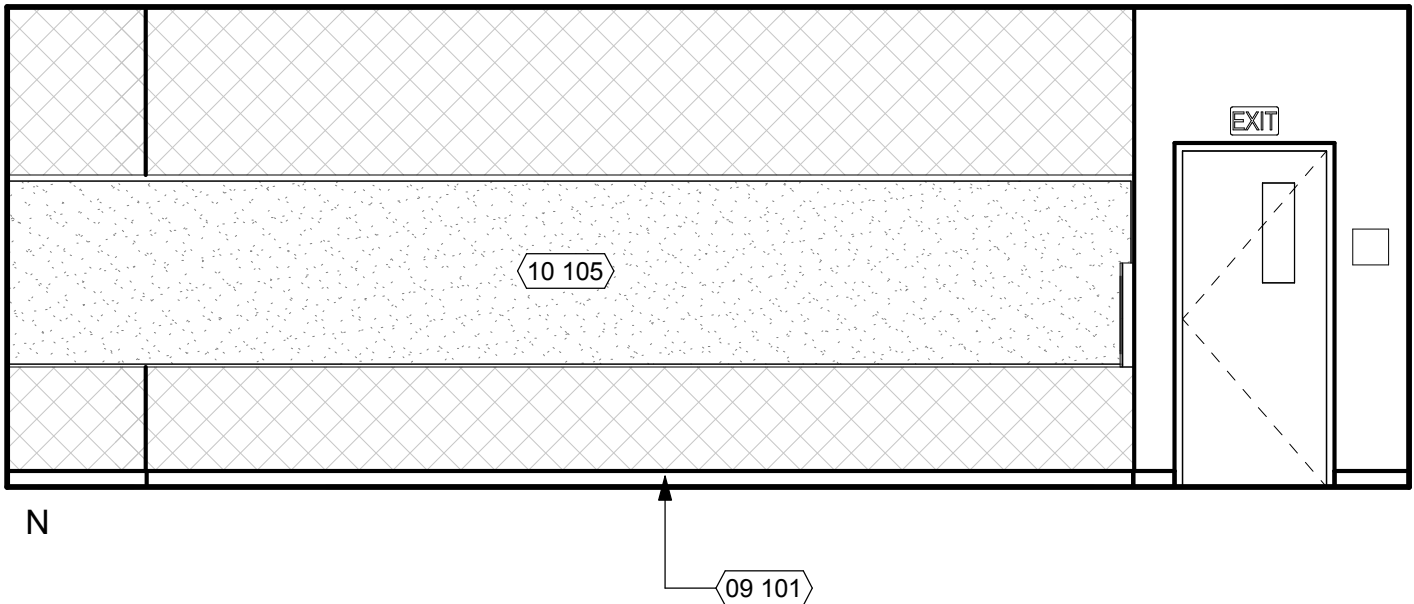




G111-PE

1/4" = 1'-0"

8



G112-CLASSROOM

1/4" = 1'-0"

10

## KEY NOTES

NUMBER	NOTE
09 101	WALL BASE (SEE FINISH SCHEDULE)
10 105	16'-0" MARKER BOARD W/ TRAY (SEE DETAIL 22/A10.10.2)
10 142	SIGNAGE PER CODE ANALYSIS PLAN
10 403	FIRE EXTINGUISHER (2A-10B:C) IN SEMI-RECESSED CABINET (SEE DETAIL 25/A10.10.2)
10 804	SOAP DISPENSER
10 810	PAPER TOWEL DISPENSER
23 310	EXPOSED DUCTWORK (SEE MECHANICAL DWGS.)
26 508	SURFACE MOUNT LIGHT FIXTURE
27 136	O.F.O.I. CLOCK AND SPEAKER PAGING SYSTEM

## GENERAL NOTES

- SEE ROOM FINISH SCHEDULE FOR FINISH INFORMATION AND LEGEND.
- ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE P-1, UNLESS NOTED OTHERWISE.
- SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS AND FINISHES.
- SEE FLOOR PLAN FOR WALL TYPES AND DOOR NUMBERS.
- ALL EXPOSED STRUCTURAL ROOF FRAMING TO BE PAINTED.
- ALL ACCENT WALL PAINT TO BE TERMINATED AT EITHER INSIDE CORNER AND/OR REVEALS.
- PROVIDE BACKING PLATES OR BLOCKING IN WALLS FOR ALL WALL MOUNTED EQUIPMENT SUCH AS SHELVING, MARKER BOARDS, AND DOOR STOPS. SEE DETAIL 29/A10.10.1.
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- PROVIDE FILLER PANEL BETWEEN WALL AND CABINETS, TYP. FILLER PANELS TO BE MINIMAL.
- FOR SIGNAGE TYPES, SEE CODE ANALYSIS FLOOR PLAN.

## LEGEND

	TACK BOARD
	MARKER BOARD
	FRP2, PER FINISH SCHEDULE
	P2, PER FINISH SCHEDULE
	ETCHED GLAZING, PER WINDOW SCHEDULE

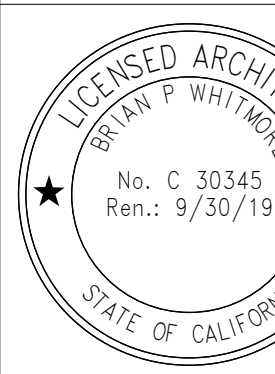
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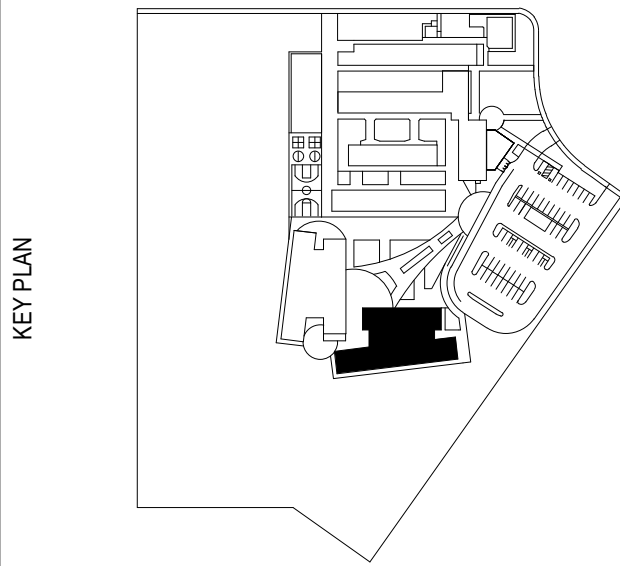
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<input type="radio"/> CONSTRUCTION	



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WEST SACRAMENTO, CA 95691

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SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING G INTERIOR  
ELEVATIONS

Date

05/20/2019

Scale

As indicated

Drawn

AA

Project Number

19003

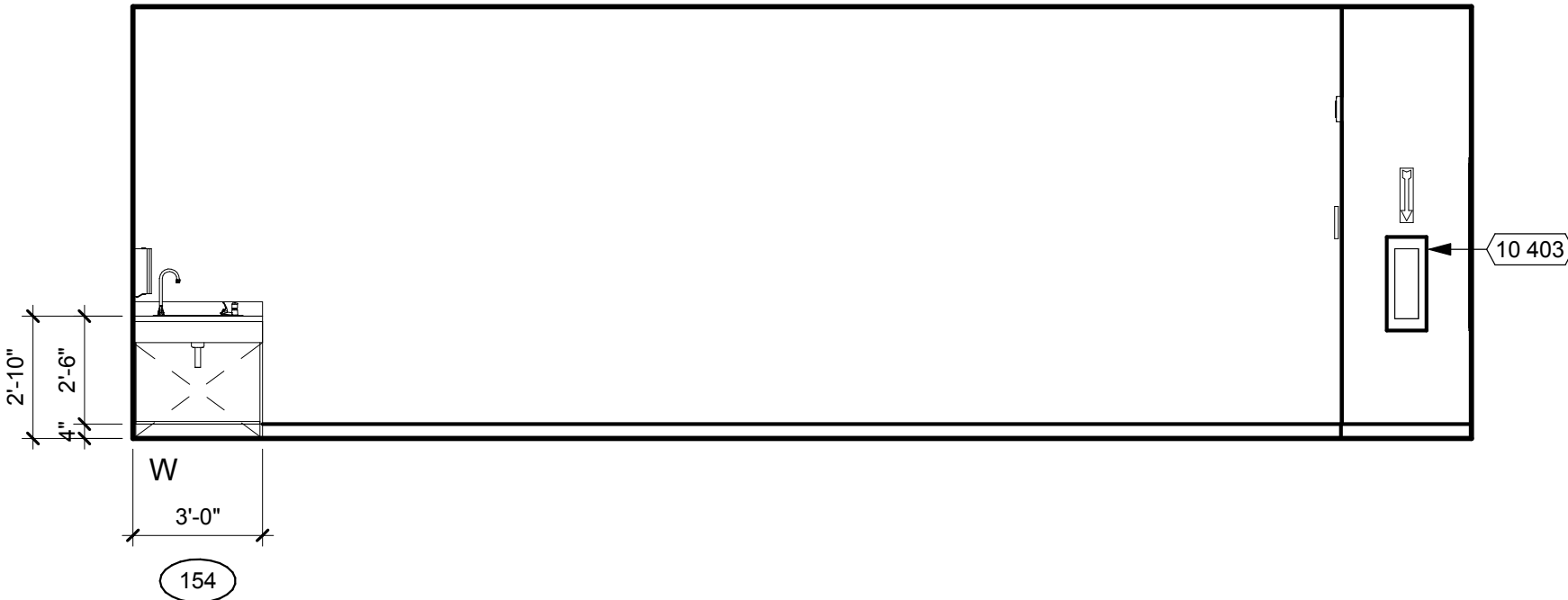
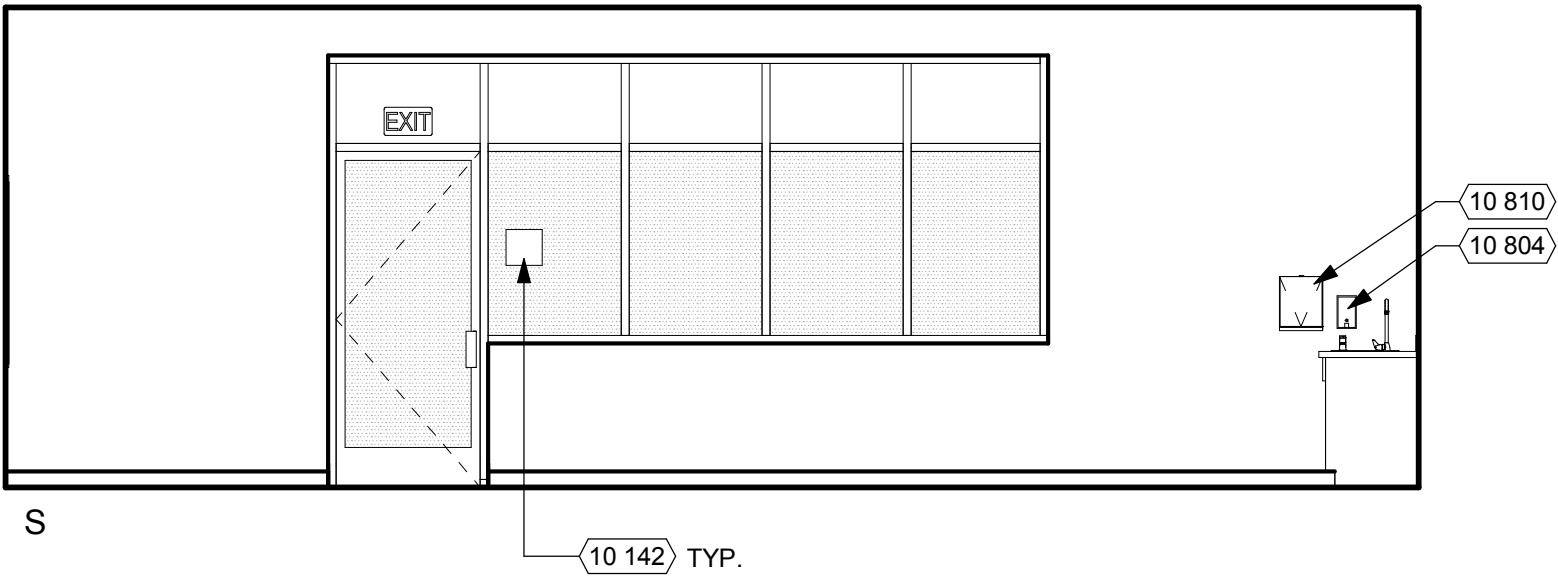
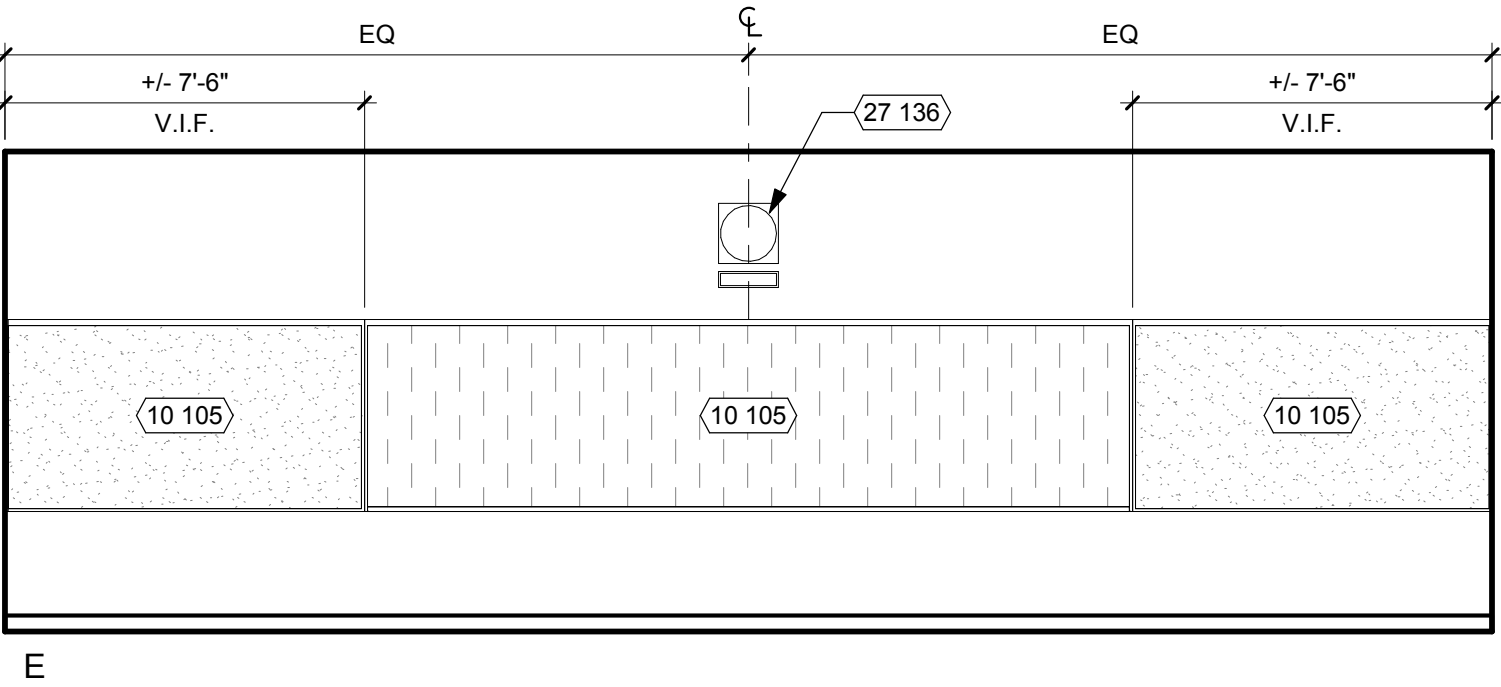
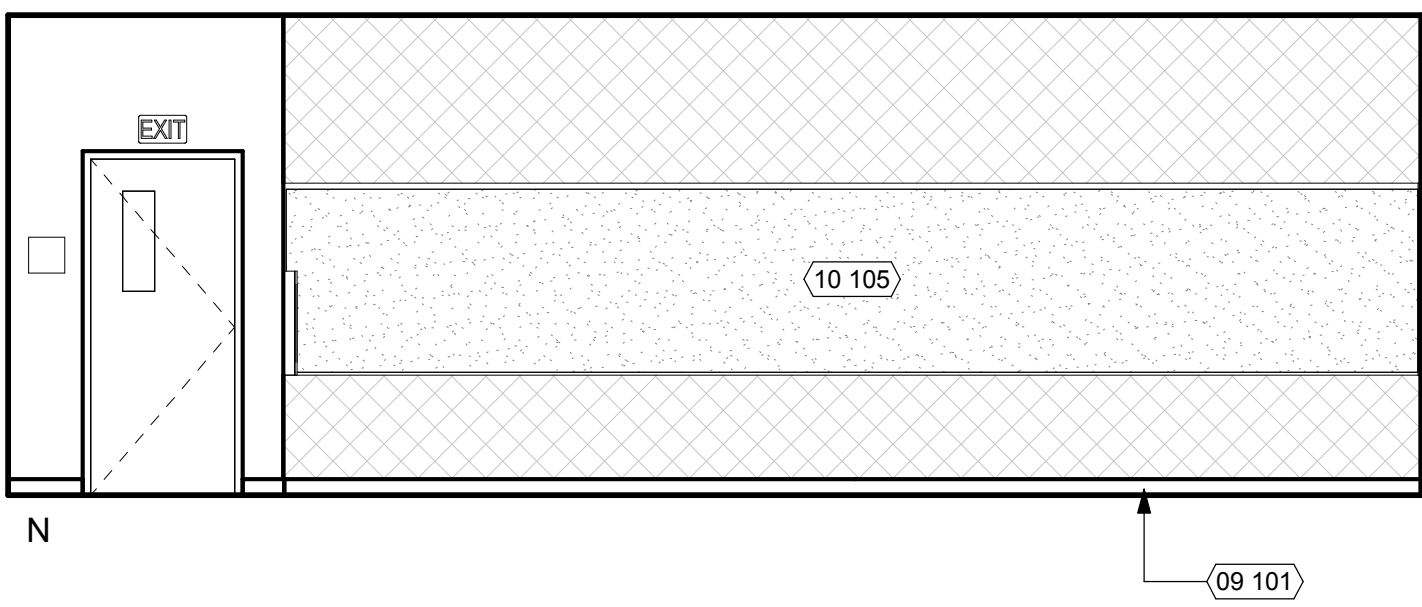
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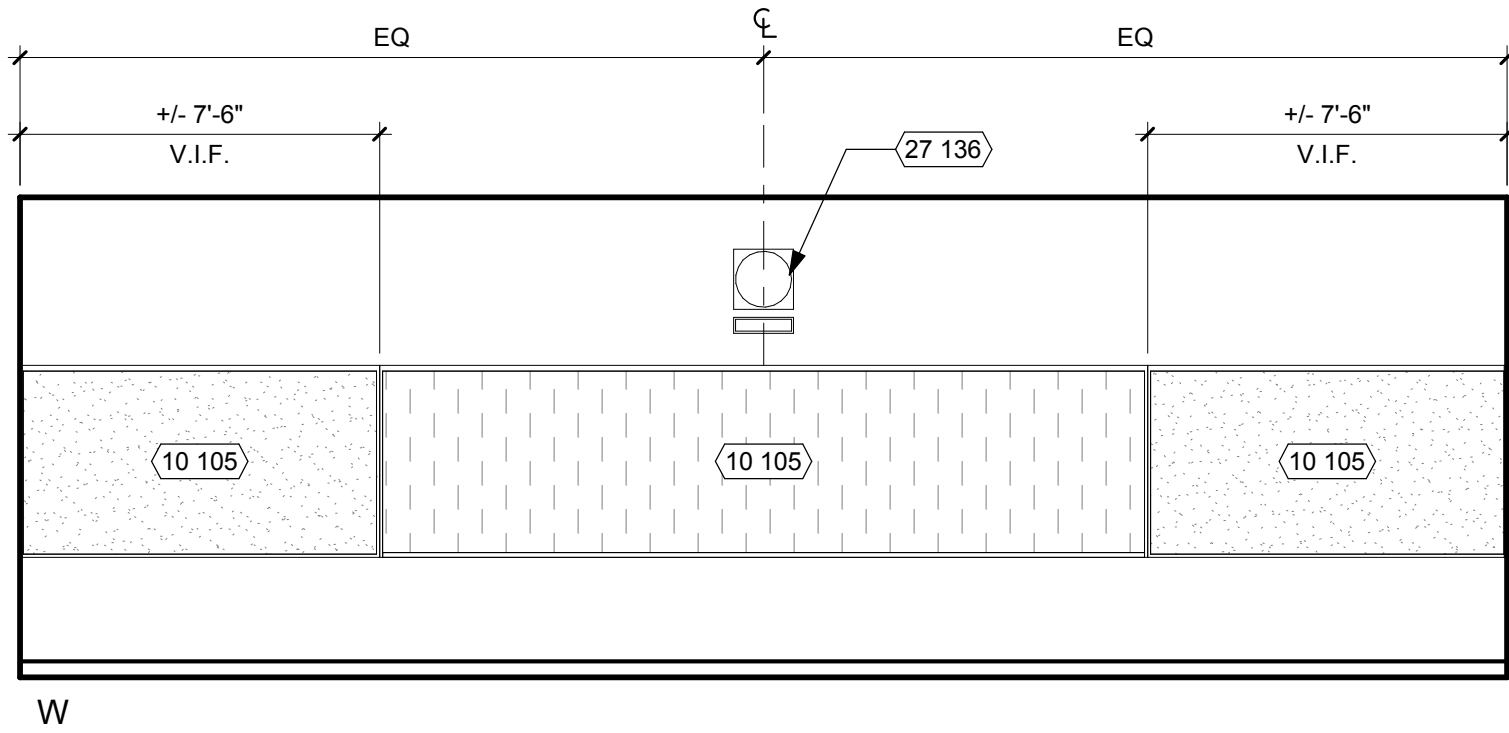
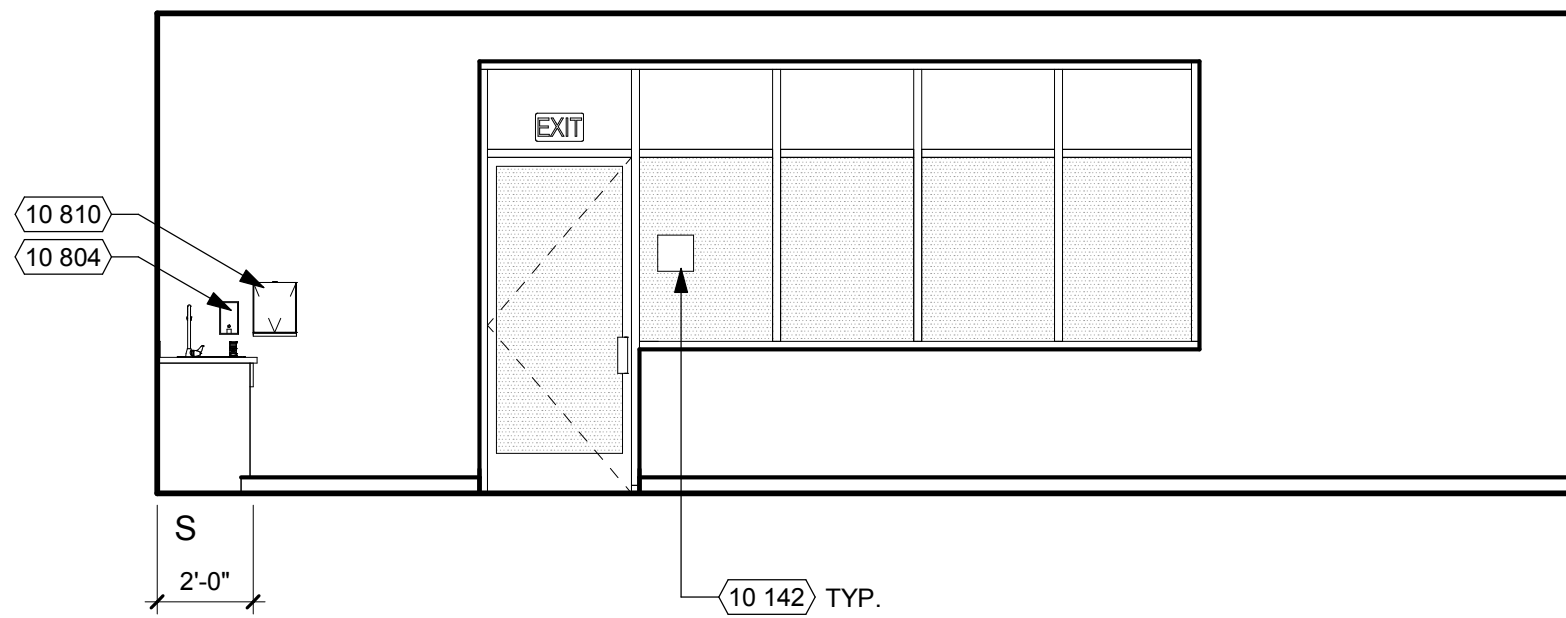
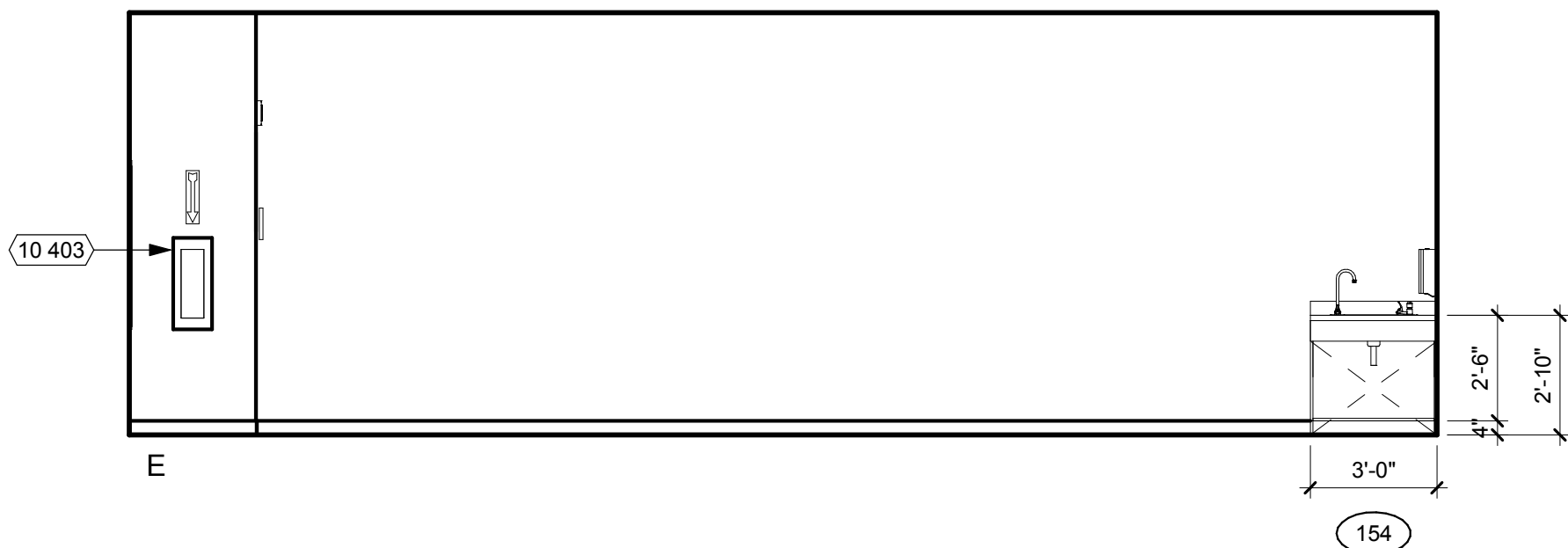
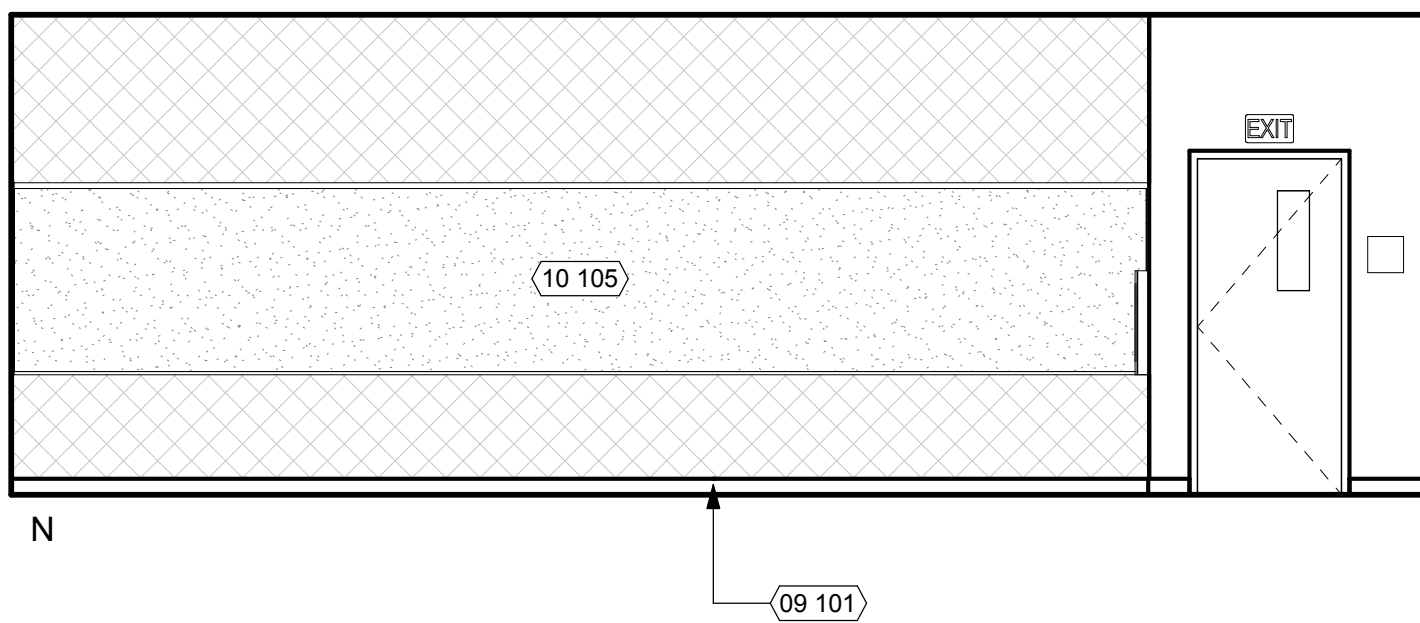




G113-CLASSROOM

1/4" = 1'-0"

8



G114-CLASSROOM

1/4" = 1'-0"

10

## KEY NOTES

NUMBER	NOTE
09 101	WALL BASE (SEE FINISH SCHEDULE)
10 105	18"-0" MARKER BOARD W/ TRAY (SEE DETAIL 22/A10.10.2)
10 142	SIGNAGE PER CODE ANALYSIS PLAN
10 403	FIRE EXTINGUISHER (2A-10B-C) IN SEMI-RECESSED CABINET (SEE DETAIL 25/A10.10.2)
10 804	SOAP DISPENSER
10 810	PAPER TOWEL DISPENSER
27 136	O.F.O.I. CLOCK AND SPEAKER PAGING SYSTEM

## GENERAL NOTES

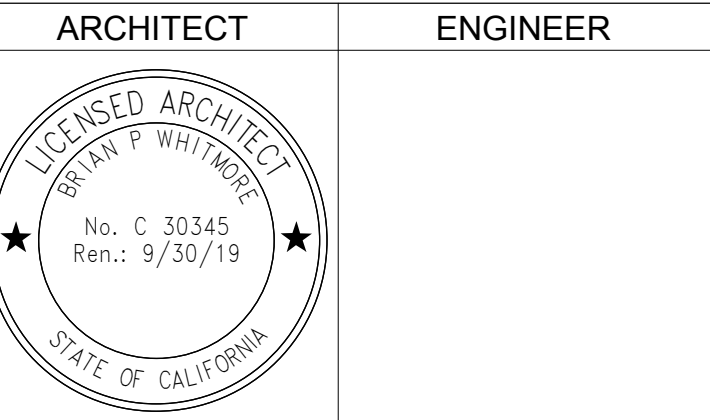
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## LEGEND

	TACK BOARD
	MARKER BOARD
	FRP2, PER FINISH SCHEDULE
	P2, PER FINISH SCHEDULE
	ETCHED GLAZING, PER WINDOW SCHEDULE

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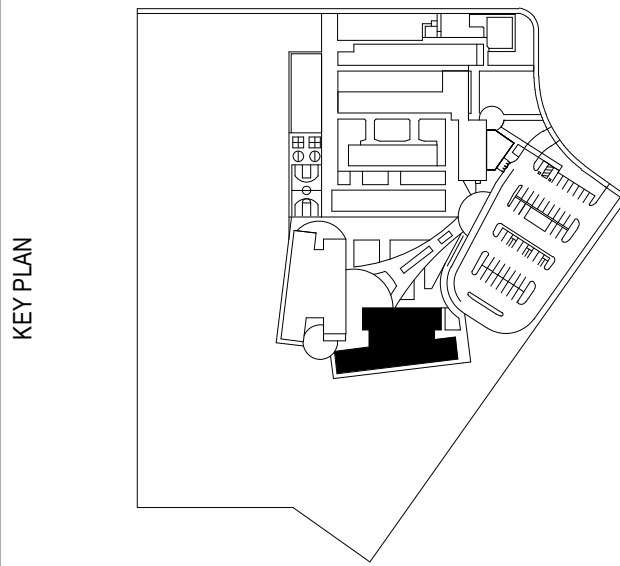
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<input type="radio"/> CONSTRUCTION	



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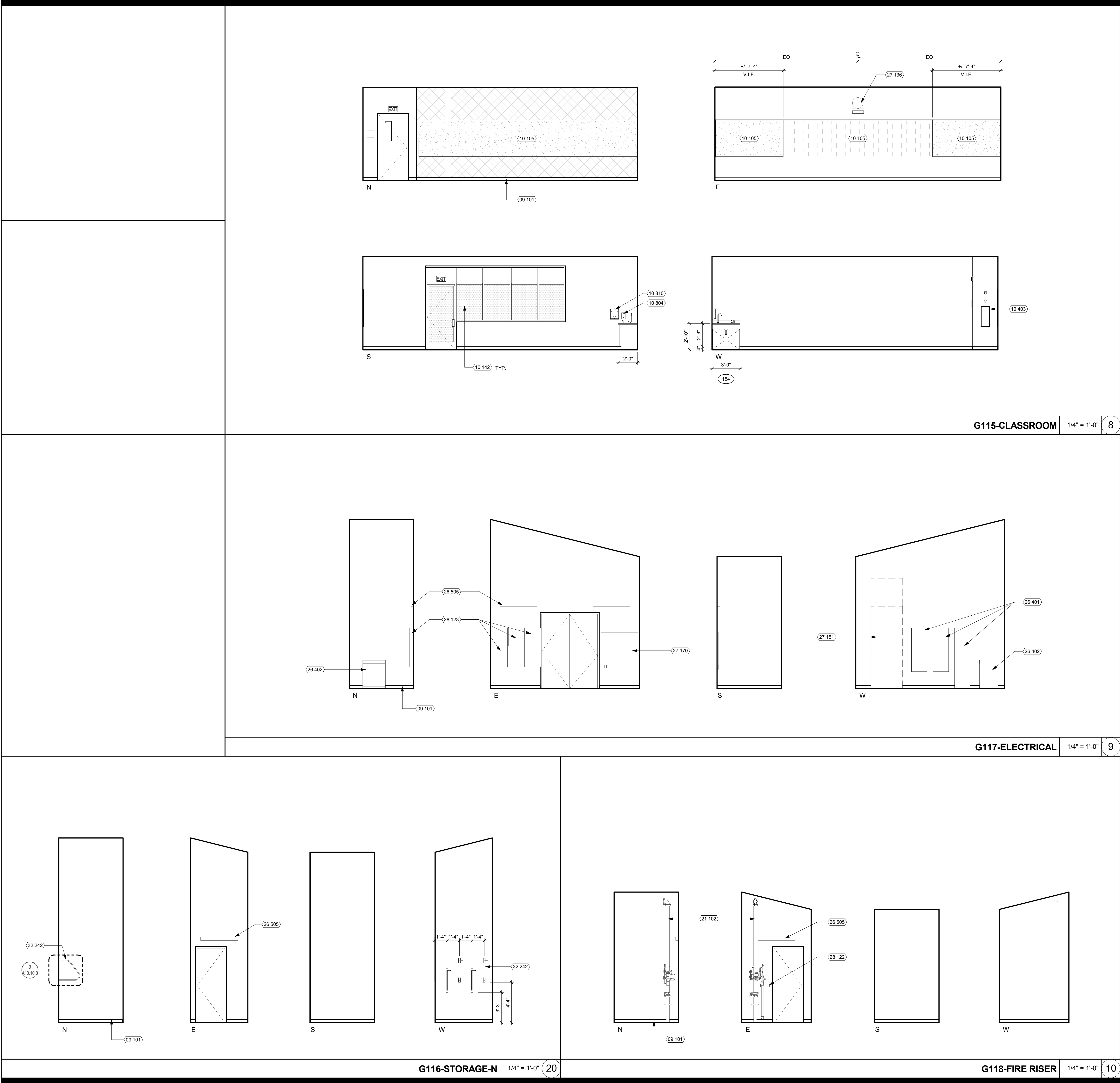
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BUILDING G INTERIOR  
ELEVATIONS

Date 05/20/2019	Project Number 19003
Scale As indicated	Drawing Number AG8.5
Drawn AA	Checked AM





### KEY NOTES

NUMBER	NOTE
09 101	WALL BASE (SEE FINISH SCHEDULE)
10 105	16'-0" MARKER BOARD W/ TRAY (SEE DETAIL 22/A10.10.2)
10 142	SIGNAGE PER CODE ANALYSIS PLAN
10 403	FIRE EXTINGUISHER (2A-10B:C) IN SEMI-RECESSED CABINET (SEE DETAIL 25/A10.10.2)
10 804	SOAP DISPENSER
10 810	PAPER TOWEL DISPENSER
21 102	FIRE RISER (SEE FIRE PROTECTION DWGS)
26 401	ELECTRICAL PANEL (SEE ELECTRICAL DWGS.)
26 402	TRANSFORMER (SEE ELECTRICAL DWGS.)
26 505	LIGHT FIXTURE
27 136	O.F.O.I. CLOCK AND SPEAKER PAGING SYSTEM
27 151	IDF RACK (SEE ELECTRICAL DWGS)
27 170	TELEPHONE TERMINAL BOARD (SEE ELECTRICAL DRAWINGS)
28 122	FIRE ALARM MONITOR MODULE (SEE FIRE PROTECTION DWGS)
28 123	FIRE ALARM PANEL (SEE FIRE PROTECTION DWGS)
32 242	VERTICAL BICYCLE RACKS (SEE DETAIL 9/A10.10.3)

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### LEGEND

	TACK BOARD
	MARKER BOARD
	FRP2, PER FINISH SCHEDULE
	P2, PER FINISH SCHEDULE
	ETCHED GLAZING, PER WINDOW SCHEDULE

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● DSA PLAN CHECK

○ DSA BACK CHECK

○ BIDDING

○ CONSTRUCTION

DATE: 05/20/2019

KEY PLAN

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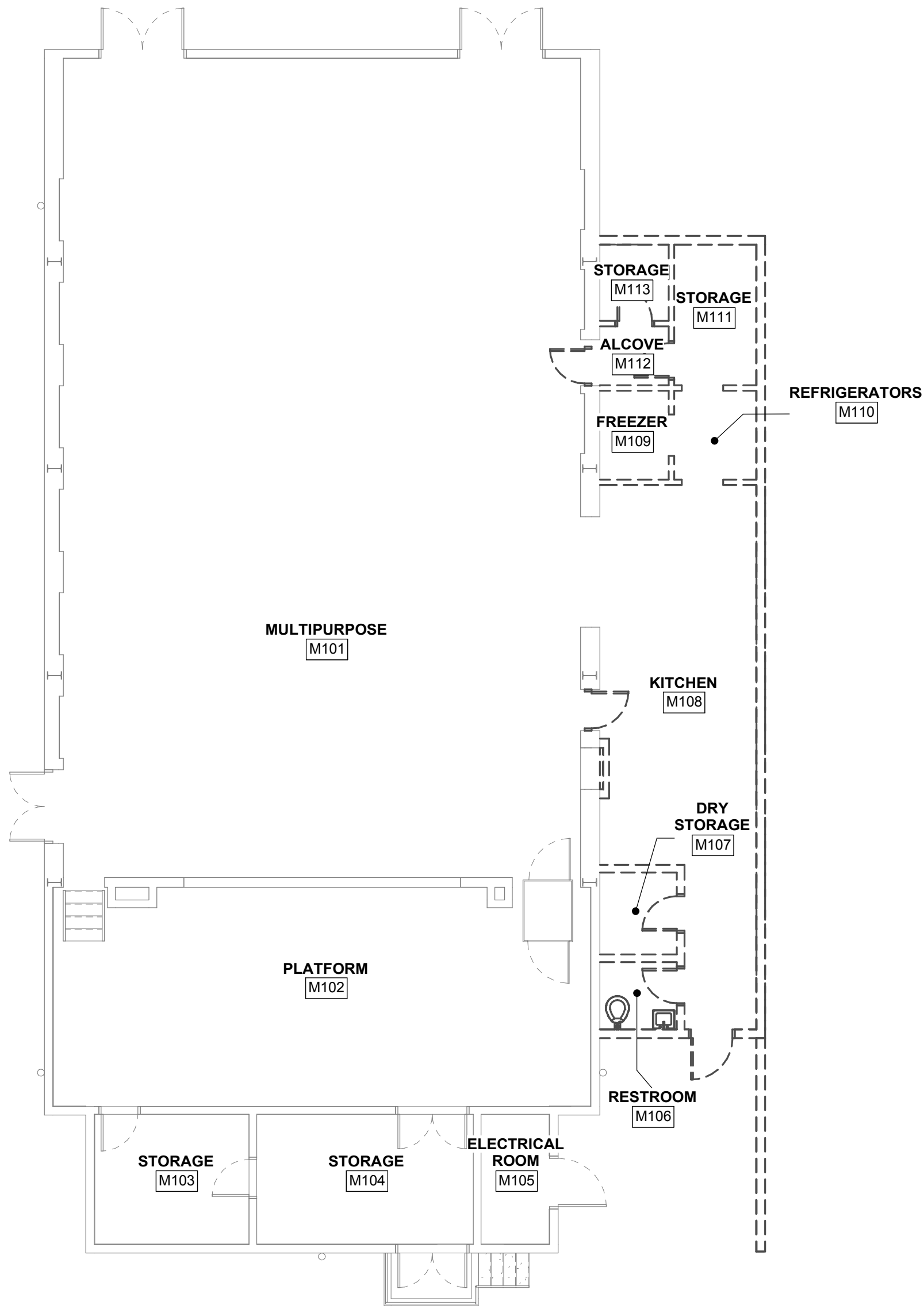
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WEST SACRAMENTO, CA 95691

BUILDING G INTERIOR ELEVATIONS

Date	05/20/2019	Project Number	19003
Scale	As indicated	Drawing Number	AG8.6
Drawn	AA	Checked	AM

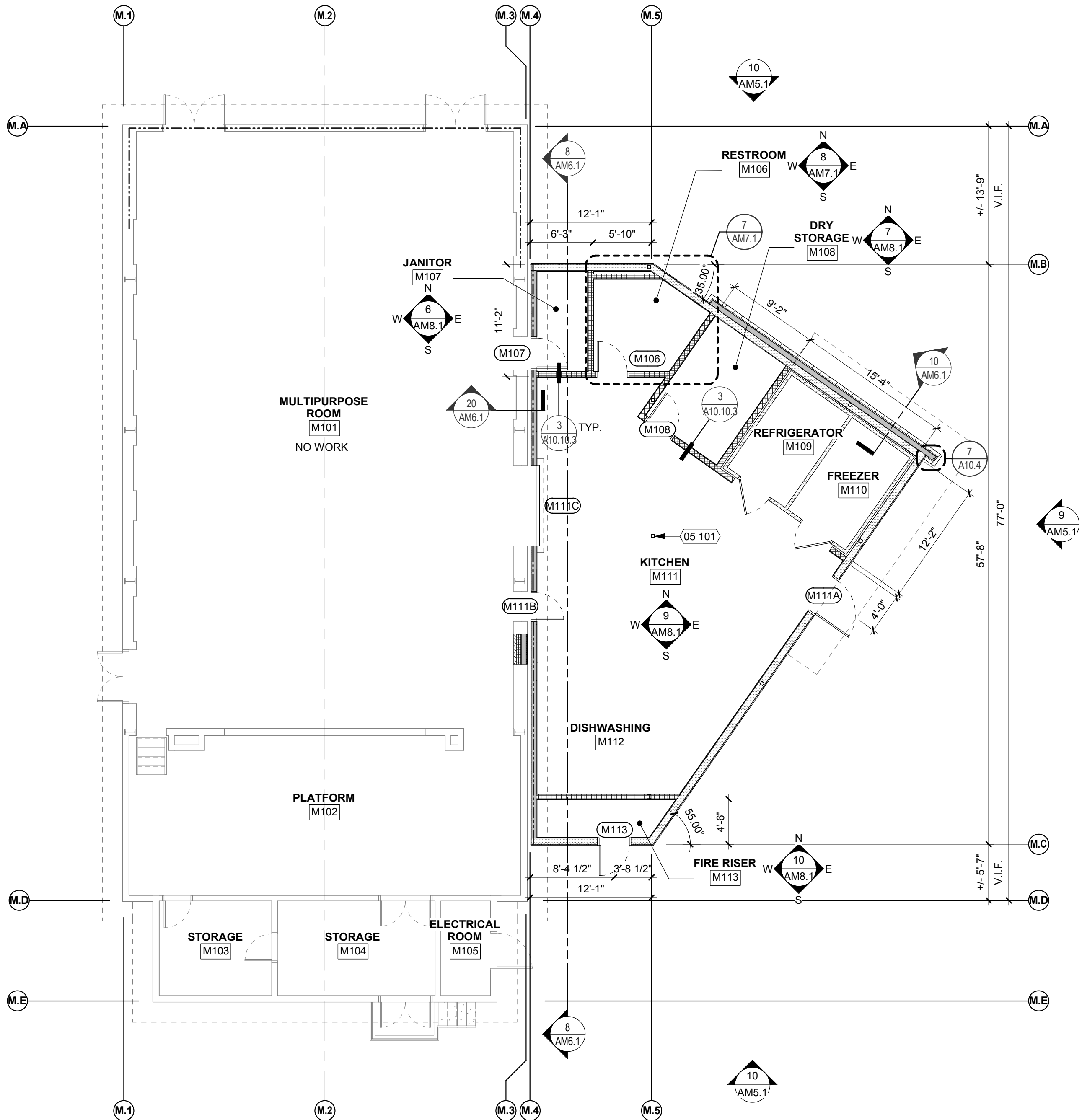




BUILDING M - DEMO FLOOR PLAN

1/8" = 1'-0"

20



BUILDING M - FLOOR PLAN

1/8" = 1'-0"

5

## KEY NOTES

NUMBER	NOTE
05 101	

## GENERAL NOTES

1. PROVIDE ROOM NAME AND NUMBER WITH 1" HIGH TEXT AND GRADE #2 BRAILLE THROUGHOUT. SEE CODE ANALYSIS PLAN.
2. ALL WALLS SHALL HAVE R-19 BATT INSULATION, FULL HEIGHT.
3. SOUND INSULATION TO BE INSTALLED AT INTERIOR FULL HEIGHT WALLS. REFER TO STRUCTURAL DRAWINGS FOR HEADER SCHEDULE AND FRAMING DETAILS FOR OPENINGS IN INTERIOR AND EXTERIOR WALLS.
4. SEE STRUCTURAL DRAWINGS FOR FRAMING SIZE AND SPACING.
5. SEE STRUCTURAL DRAWINGS FOR COLUMN LOCATIONS AND SIZING.
6. REFER TO ROOM FINISH SCHEDULE FOR INTERIOR WALL FINISHES.
7. DIMENSIONS OF STUDS ARE FROM FACE OF STUD.
8. PAINT ALL INTERIOR WALLS.

## LEGEND

- LINE OF ROOF, SKYLIGHT, OR SOFFIT OVERHEAD - SHOWN DASHED
- EXISTING CONSTRUCTION TO REMAIN (BUILDING M ONLY)
- FULL BRICK VENEER EXTERIOR WALL, SEE DETAIL 2 / A10.1
- EXTERIOR PLASTER 6" STUD WALL, SEE DETAIL 3 / A10.1
- EXTERIOR PLASTER 8" STUD WALL, SEE DETAIL 4 / A10.1
- EXTERIOR PLASTER 10" STUD WALL, SEE DETAIL 5 / A10.1
- INTERIOR 6" STUD WALL, SEE DETAIL 11 / A10.1
- INTERIOR 2-HOUR RATED WALL (BUILDING M ONLY), SEE DETAIL 10 / A10.1
- INTERIOR 6" STUD WALL WITH ACOUSTIC SEPARATION (BUILDING G ONLY), SEE DETAIL 8 / A10.1
- INTERIOR 8" STUD WALL, SEE DETAIL 16 / A10.1
- INTERIOR 10" STUD WALL, SEE DETAIL 12 / A10.1

## DEMO LEGEND

- (E) TO BE DEMOLISHED, REMOVED, AND/OR RELOCATED - PER PLANS
- (E) TO REMAIN

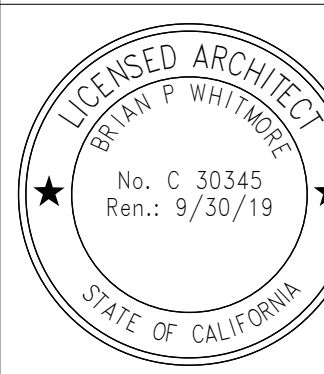
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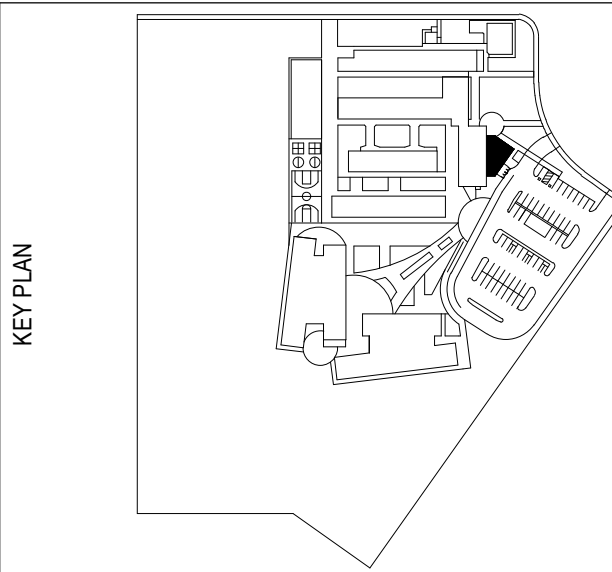
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WEST SACRAMENTO, CA 95691

BUILDING M FLOOR  
PLANS - DEMO AND NEW

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

AA

Project Number

19003

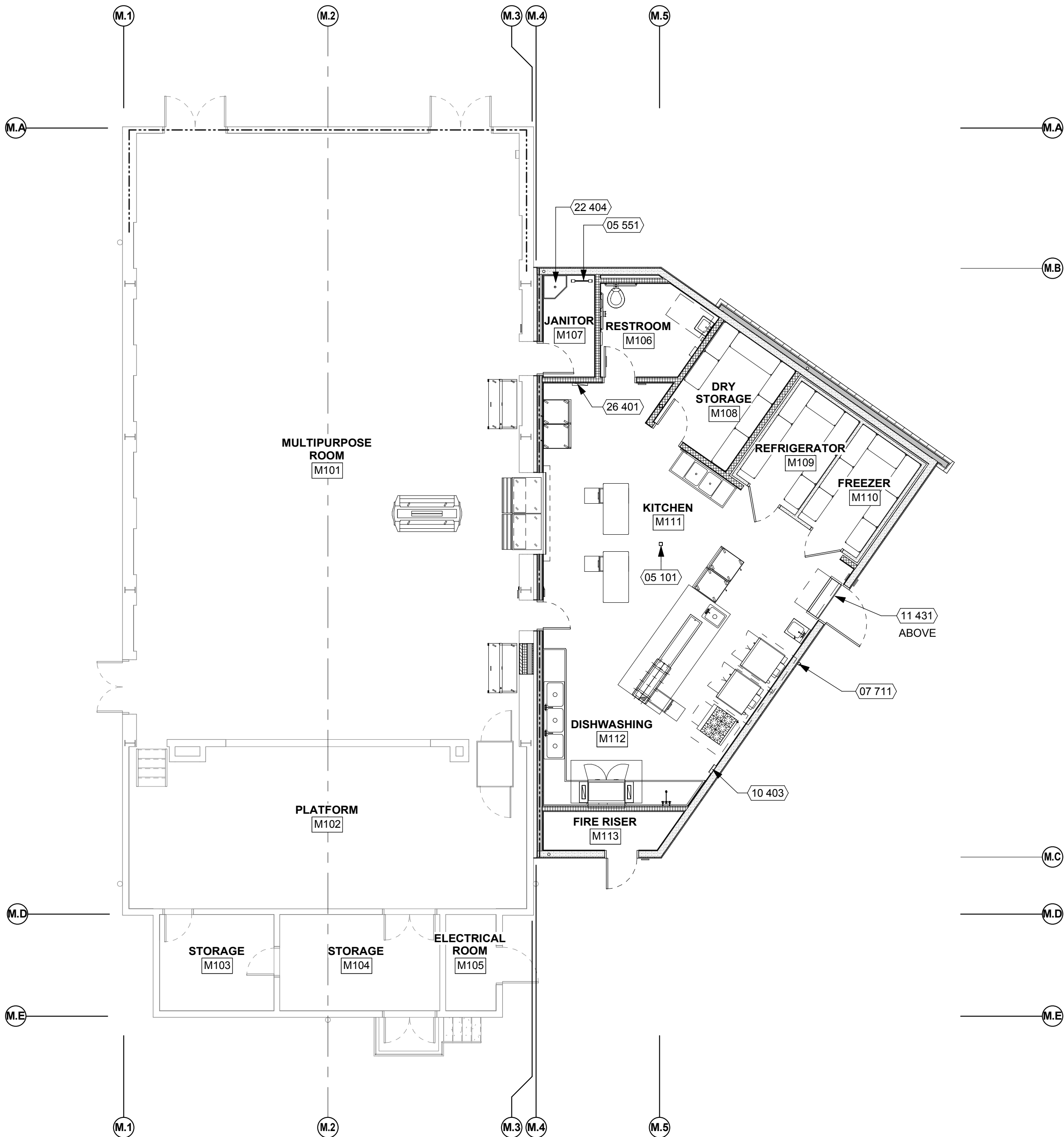
Drawing Number

AM2.1

Checked

AM





BUILDING M - EQUIPMENT PLAN 1/8" = 1'-0" 20



BUILDING M - FLOOR PATTERN PLAN 1/8" = 1'-0" 10

KEY NOTES

NUMBER	NOTE
05 101	COLUMNS (SEE STRUCTURAL DWGS.)
05 551	LADDER TO ROOF HATCH (SEE DETAIL 2/A10.7.1)
07 711	DOWNSPOUT, PAINT TO MATCH ADJACENT WALL
10 403	FIRE EXTINGUISHER (2A-10B-C) IN SEMI-RECESSED CABINET (SEE DETAIL 25/A10.10.2)
11 431	AIR CURTAIN (SEE FOOD SERVICE DWGS.)
22 404	MOP SINK (SEE DETAIL 6/A10.10.3)
26 401	ELECTRICAL PANEL (SEE ELECTRICAL DWGS.)

GENERAL NOTES

- FOR KITCHEN EQUIPEMENT REFER TO FOOD SERVICE DRAWINGS.

FINISH PLAN LEGEND

	EPX
	EC
	SC - 12" WIDE DECORATIVE PATTERN
	CPT (BUILDING G ONLY)
	DEPRESSED CONCRETE SLAB, PER STRUCTURAL DRAWINGS (BUILDING M ONLY)

NOTE:  
SEE FINISH LEGEND SCHEDULE FOR MATERIAL ABBREVIATION LEGENDS.

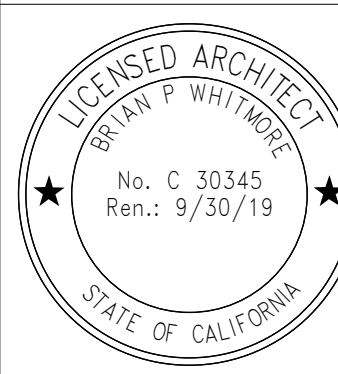
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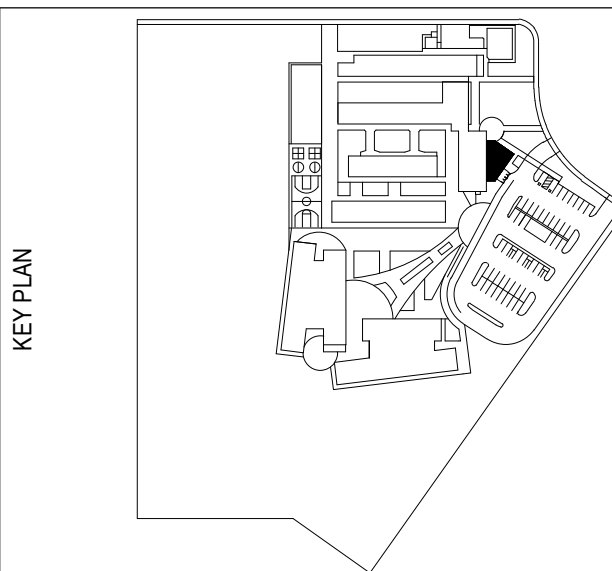
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WEST SACRAMENTO, CA 95691

BUILDING M EQUIPMENT  
AND FLOOR PATTERN  
PLAN

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

AA

Project Number

19003

Drawing Number

AM2.3

Checked

AM



RCP LEGEND

2x4 SUSPENDED ACOUSTICAL CEILING PANEL SYSTEM

GYP SUM WALLBOARD CEILING, PAINT SURFACE, SEE DETAIL 2 / A10.9.3

METAL PANEL SOFFIT

COOLER BOX CEILING, BY MANUFACTURER, OPEN TO STRUCTURE ABOVE

LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS

MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS

CEILING ACCESS PANEL

ROOM NAME  
A119

ROOM TAG  
(+) 8'-0"

ROOM TAG  
(+) 8'-0" = CEILING HEIGHT OF ROOM, U.O.N.

ROOM NAME  
A119

ROOM TAG  
EXPOSED

ROOM TAG  
EXPOSED = OPEN TO STRUCTURE

ROOF PLAN LEGEND

ROOF DRAIN AND OVERFLOW, SEE DETAIL 10 / A10.7.1

ROOF WALKWAY PADS 13 / A10.7.1

MODIFIED BITUMEN ROOFING

ROOF CRICKET, TAPERED RIGID INSULATION, SLOPED TO DRAIN PER DETAIL 25 / A10.7.1

SKYLIGHT, SEE DETAIL 2 / A10.7.3

STANDING SEAM METAL ROOFING, 16" PLANK & PENCIL RIBS PANEL, OVER COVER BOARD AND INSULATION (BUILDINGS F & G ONLY)

STANDING SEAM METAL ROOFING, 16" FLAT PANEL

KEY NOTES

NUMBER	NOTE
07 721	ROOF ACCESS HATCH W/ LADDER (SEE DETAIL 2/A10.7.1)
11 420	EXHAUST HOOD (SEE FOOD SERVICE DWGS.)
11 431	AIR CURTAIN (SEE FOOD SERVICE DWGS.)
23 301	ROOFTOP MECHANICAL UNIT (SEE MECHANICAL DWGS.)
23 351	ROOFTOP VENTILATOR (SEE MECHANICAL DWGS.)

RCP GENERAL NOTES

GENERAL

- ALL HEIGHTS ARE REFERENCED FROM FINISH FLOOR ELEVATIONS = 0'-0"
- ACCESS DOORS TO BE INSTALLED TO SERVICE EQUIPMENT SHOWN IN CONTRACT DOCUMENTS. EXACT NUMBER AND LOCATION OF ACCESS PANELS IS NOT SHOWN. SEE DETAIL 4 / A10.9.3
- PROVIDE ACCESS PANELS TO ENCLOSED AREAS ABOVE GYP SUM BOARD, CEILINGS, CENTER AND ALIGN TO LIGHT FIXTURES, AND OTHER CEILING FIXTURES PER PLAN
- CEILING SYSTEM SHOULD BE CENTERED WITHIN EACH ROOM AS WELL AS ALIGNED WITH THE STRUCTURAL GRID, U.O.N.
- CEILING SYSTEM SHALL BE COORDINATED WITH THE LIGHTING & ELECTRICAL PLANS.
- SKYLIGHT WELL ON THE CEILING PLAN SHOULD BE VERTICALLY ALIGNED WITH THE CORRESPONDING SKYLIGHT ON THE ROOF WHERE OCCURS.
- PAINT GYP, BD, CEILINGS AND SOFFITS P-1 U.O.N. (PAINT FINISH TO BE SAME AT FACE AND UNDERSIDE OF SOFFITS.) REFER TO ROOM FINISH SCHEDULE FOR COLOR SELECTIONS
- PAINT EXPOSED CEILINGS, DUCTWORK AND EQUIPMENT PER FINISH SCHEDULE
- NO EXPOSED NAILS OR SCREWS ARE ALLOWED.

EQUIPMENT

- SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SUPPORTS & BRACING. ELECTRICAL DEVICES ARE SHOWN FOR LOCATION IN RELATION TO LIGHT FIXTURES AND MECHANICAL DIFFUSERS IN SELECT AREAS. FOR FIXTURE INFORMATION SEE ELECTRICAL DRAWINGS.
- SEE MECHANICAL AND PLUMBING DRAWINGS FOR DIFFUSERS AND PIPE CHASES.
- SEE FIRE PROTECTION DETAILS FOR PENETRATIONS THROUGH RATED WALLS, WHERE OCCURS.
- SINGLE LIGHT FIXTURES IN GYP, BD, CEILINGS SHALL BE CENTERED IN ROOM
- LIGHT FIXTURE DIMENSIONS ARE TO CENTERLINE OF FIXTURE OR GROUP OF FIXTURES, U.O.N.
- CENTER AND ALIGN SMOKE DETECTOR, DIFFUSERS, GRILLS, AND SIMILAR ITEMS IN CEILING TILE GRID AND ALIGN WITH LIGHT FIXTURES, SEE DETAIL 3 / A10.9.3
- SEE ELECTRICAL DRAWINGS FOR LOW LEVEL EXIT SIGN LOCATIONS.

BUILDING M - REFLECTED CEILING PLAN 1/8" = 1'-0" 20

BUILDING M - LOWER ROOF PLAN 1/8" = 1'-0" 10

ROOF PLAN GENERAL NOTES

GENERAL

- NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
- ALL ROOF MATERIALS TO BE CLASS A RATED.
- MINIMUM ROOF INSULATION R-30 ALL LOCATIONS OF THE ROOF.
- MINIMUM THICKNESS OF ROOF INSULATION TO BE 6" AT LOW POINT OF ROOF DRAIN SUMP.
- FLASHING TERMINATIONS SHALL HAVE WATER-TIGHT SHEET METAL CLOSURES WITH WATERPROOF SELF-ADHERED MEMBRANE UNDERLAYMENT.
- NAILER THICKNESS SHALL MATCH ADJACENT INSULATION THICKNESS WITHIN 1/4" TOLERANCE.

SLOPES AND DRAINAGE

- SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS, ETC.) SHALL BE 1/4" / FT. SLOPE MINIMUM AS INDICATED AT ALL ROOF AREAS, INCLUDING VALLEYS, AND STEEPER AS REQUIRED TO MEET VALLEY SLOPE CRITERIA.
- BACK SLOPES SHALL BE 2X THE PRIMARY SLOPE.
- MINIMUM ROOF SLOPE IN VALLEYS IS 1/4" / FT. ADJUST SLOPE OF CRICKETS TO PROVIDE MINIMUM SLOPE AT ALL LOCATIONS OF ROOF. TO PREVENT PONDING, DIRECT ALL ROOF WATER TO DRAINS.
- TAPER INSULATION UP FROM DRAIN IN SUMPS MINIMUM OF 1/4" / FT. BUT NOT TO EXCEED 1" FT. PROVIDE TAPERED FILL TO CONFORM THE SUMP INSULATION TO THE THICKNESS OF INSULATION IN THE FIELD OF THE ROOF.
- PROVIDE TAPERED CRICKET ON THE HIGH SIDE OF PENETRATIONS WIDER THAN 24"
- MINIMUM SLOPE 1/4" / FT. TO DRAIN AT ALL LOCATIONS.

EQUIPMENT

- REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND OTHER FACILITY SERVICES DRAWINGS FOR EQUIPMENT, DUCTWORK, PENETRATIONS AND OTHER FEATURES NOT OTHERWISE SHOWN.
- PENETRATIONS, CURBS AND TERMINATIONS, INCLUDING THOSE FOR MECHANICAL, ELECTRICAL, PLUMBING AND OTHER FACILITY SERVICES, SHALL PROVIDE MINIMUM 6" VERTICAL BASE FLASHING ELEVATION ABOVE THE TOP OF THE ADJACENT ROOF SURFACE (NOT STRUCTURAL DECK).
- EQUIPMENT SUPPORT PENETRATIONS SHALL BE ROUND SHAPES UNLESS SPECIFICALLY DETAILED OTHERWISE.
- FOR CONDUIT THROUGH ROOF DETAIL, SEE ELECTRICAL DRAWINGS
- FOR TYPICAL PENETRATION CLEARANCES, SEE DETAIL 18 / A10.7.1
- FOR DUCT THRU WALL PENETRATION, SEE DETAIL 21 / A10.7.1

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STATE OF CALIFORNIA  
No. C 30345  
Ren.: 9/30/19

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<input type="radio"/> CONSTRUCTION	

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

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WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING M REFLECTED  
CEILING PLAN AND ROOF  
PLAN

Date  
05/20/2019

Scale  
1/8" = 1'-0"

Drawn  
AA

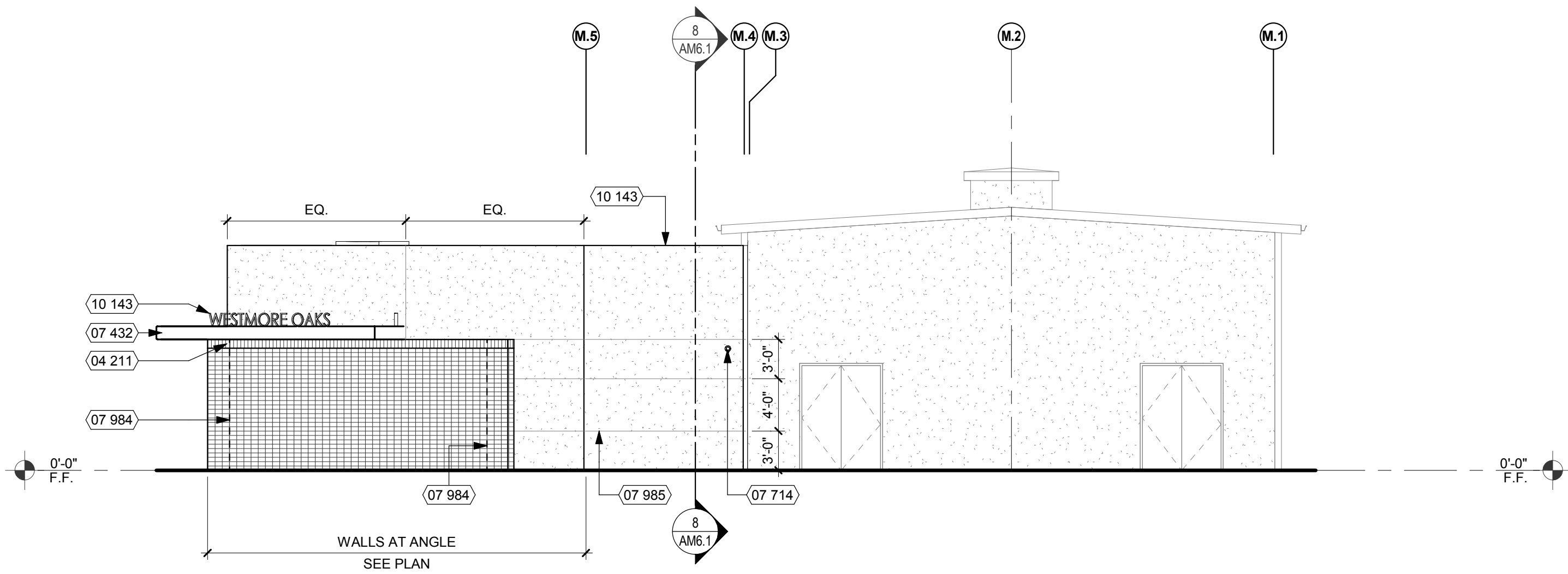
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AM

Project Number  
19003

Drawing Number  
AM3.1

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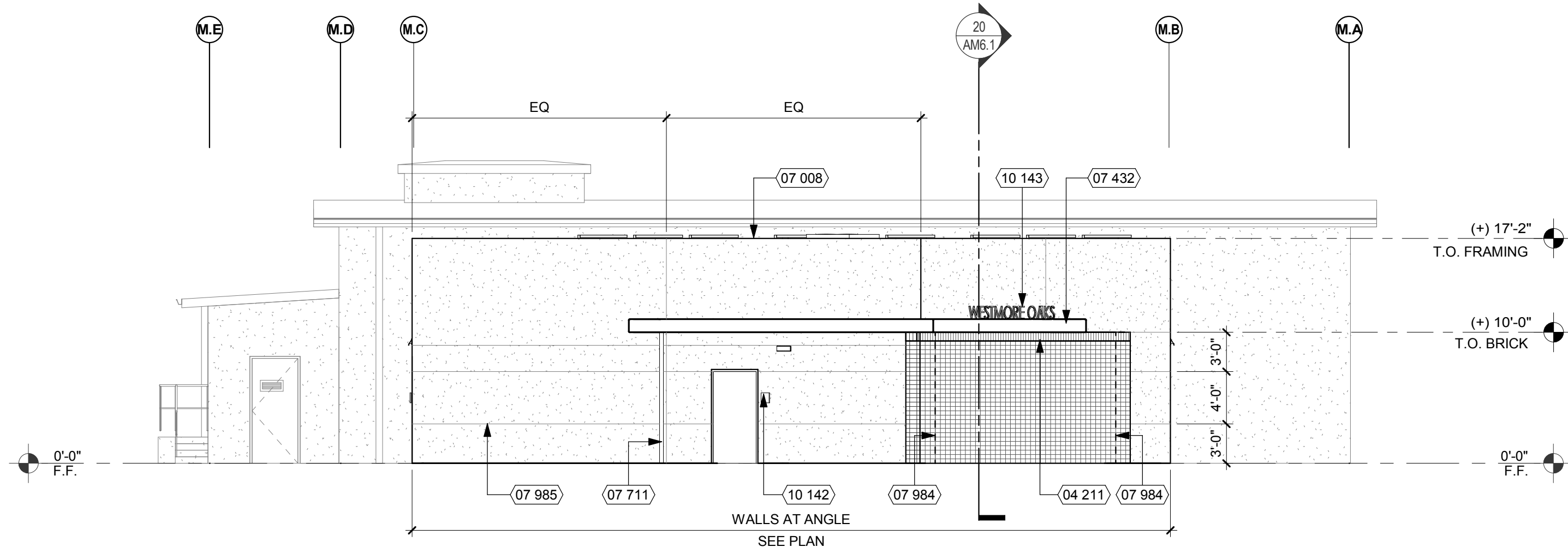




BUILDING M - NORTH ELEVATION

1/8" = 1'-0"

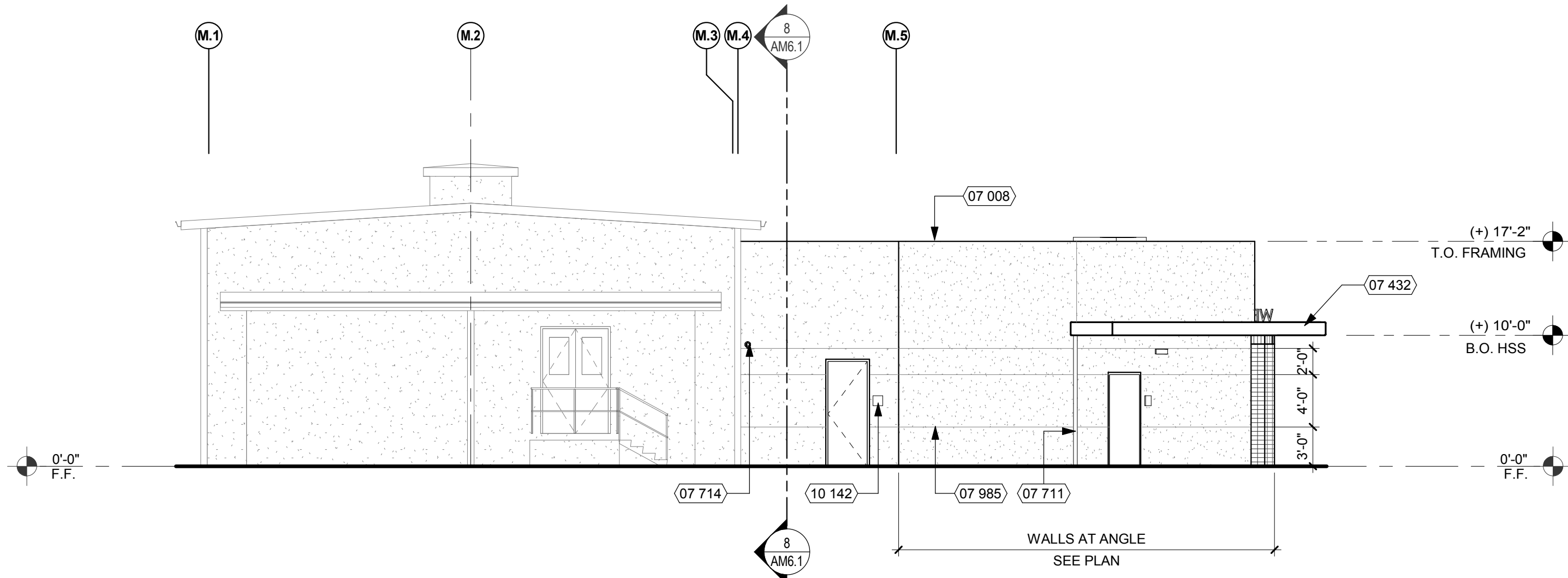
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BUILDING M - EAST ELEVATION

1/8" = 1'-0"

9



BUILDING M - SOUTH ELEVATION

1/8" = 1'-0"

10

KEY NOTES

NUMBER	NOTE
04 211	BRICK SAILOR COURSE
07 008	PARAPET CAP, PAINT TO MATCH ADJACENT WALL
07 432	HSS CANOPY FASCIA, PAINTED P5
07 711	DOWNSPOUT, PAINT TO MATCH ADJACENT WALL
07 714	DOWNSPOUT NOZZLE (SEE DETAIL 24/A10.7.1)
07 984	EXPANSION JOINT, BRICK EXPANSION JOINTS ARE REQUIRED 3'-0" MAX. FROM CORNERS AND @ 30'-0" O.C. MAX.
07 985	PLASTER CONTROL JOINT
10 142	SIGNAGE PER CODE ANALYSIS PLAN
10 143	EXTERIOR BUILDING SIGNAGE (SEE DETAIL 19/A10.10.1)

GENERAL NOTES

- GRAFFITI-RESISTANT COATINGS TO BE APPLIED ONLY TO MASONRY BRICK AND CONCRETE, NOT PLASTER - SEE SPECIFICATIONS

LEGEND

	EXTERIOR CEMENT PLASTER, PAINTED P4 PER FINISH SCHEDULE
	FULL BRICK, STACK BOND, SEE TYPICAL ASSEMBLY DETAIL
	BRICK EXPANSION JOINT
	STANDING SEAM METAL ROOFING, SEE TYPICAL ASSEMBLY DETAIL (BUILDINGS F & G ONLY)

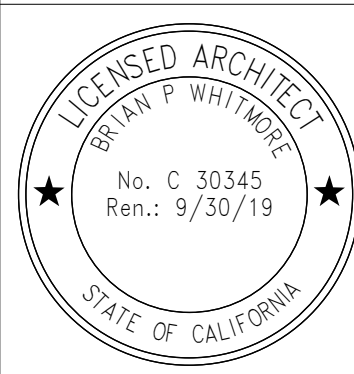
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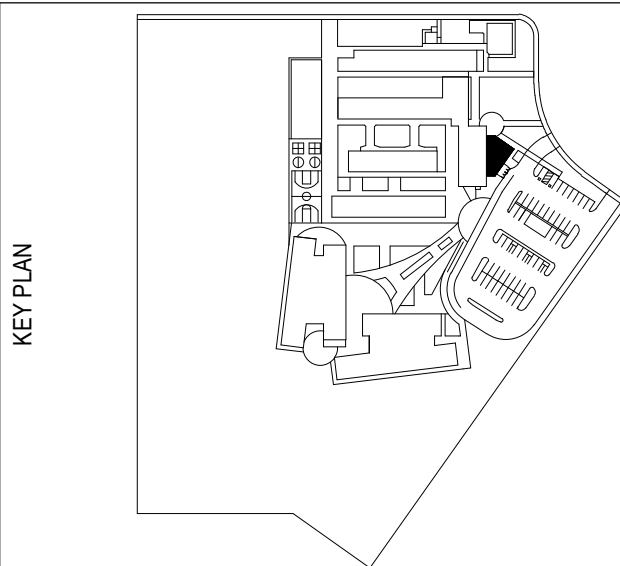
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BUILDING M EXTERIOR  
ELEVATIONS

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

AA

Checked

AM

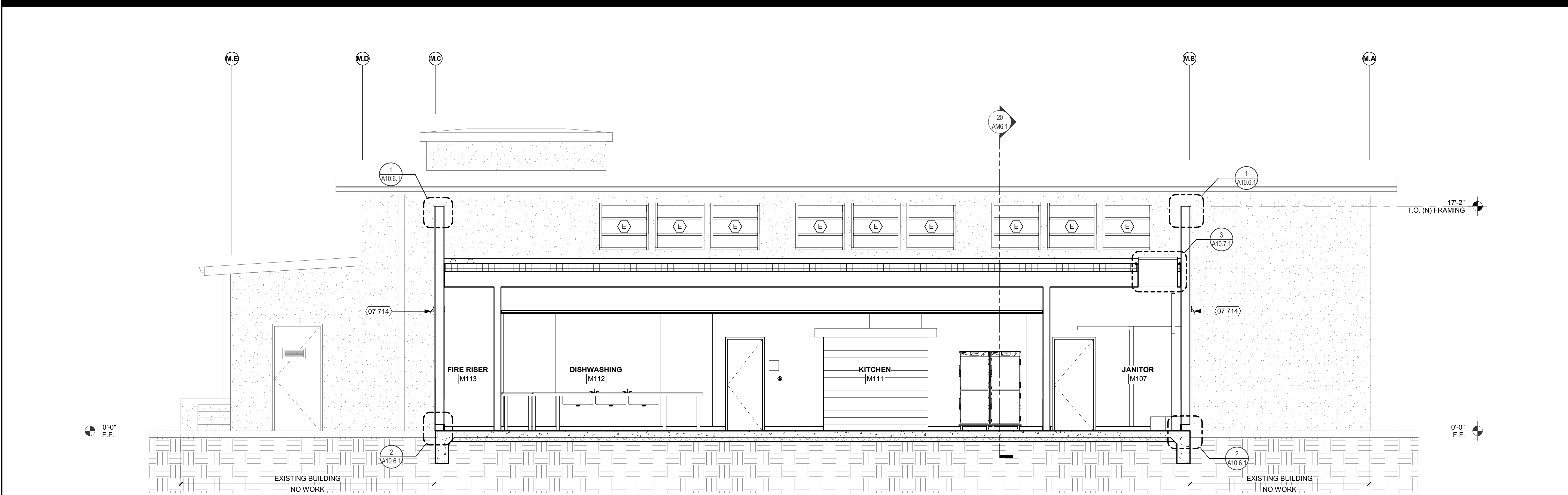
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19003

Drawing Number

AM5.1





REF: 5 / AM2.1

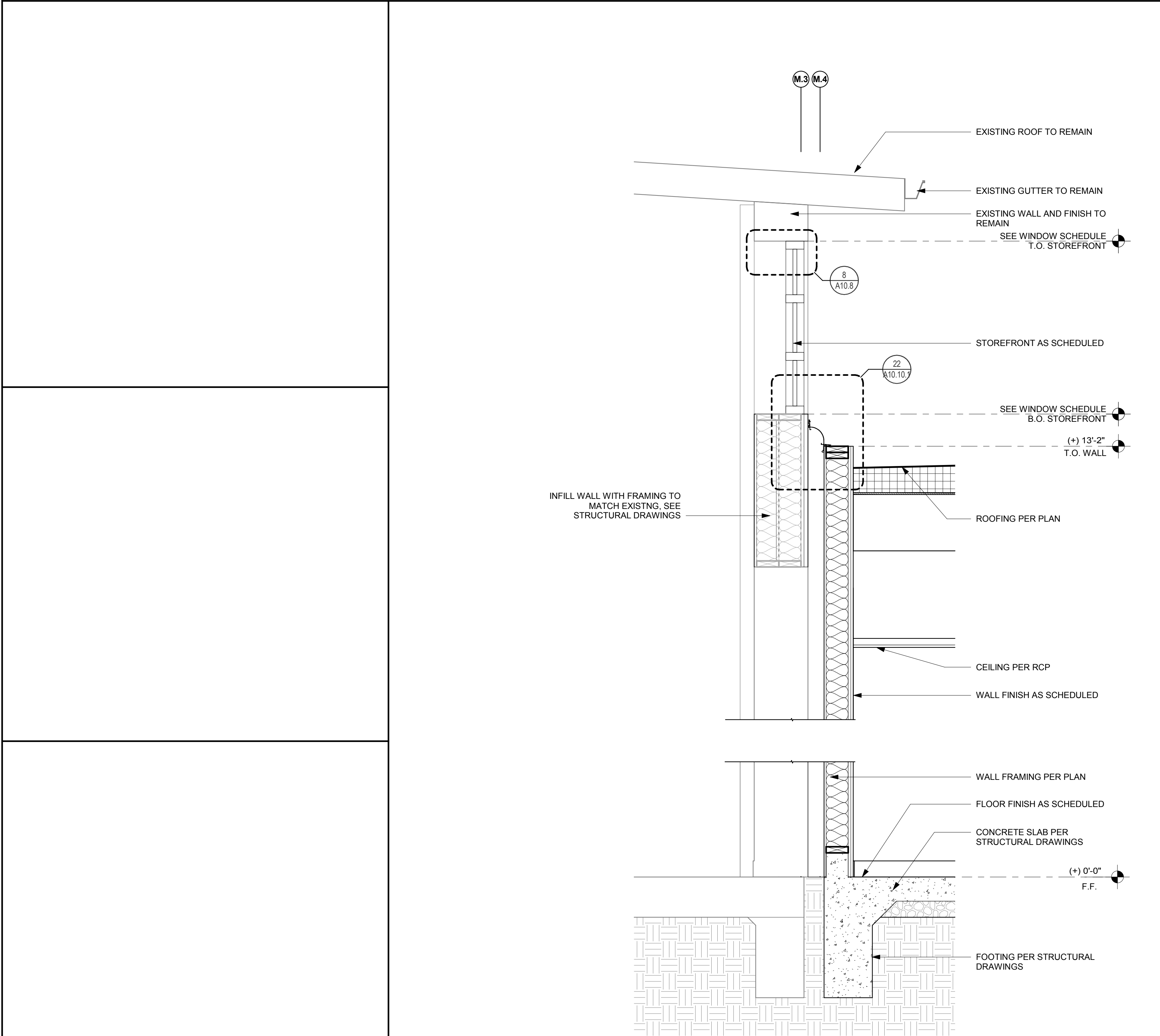
BUILDING M - BUILDING SECTION

1/4" = 1'-0"

8

KEY NOTES

NUMBER	NOTE
07 714	DOWNSPOUT NOZZLE (SEE DETAIL 24/A10.7.1)

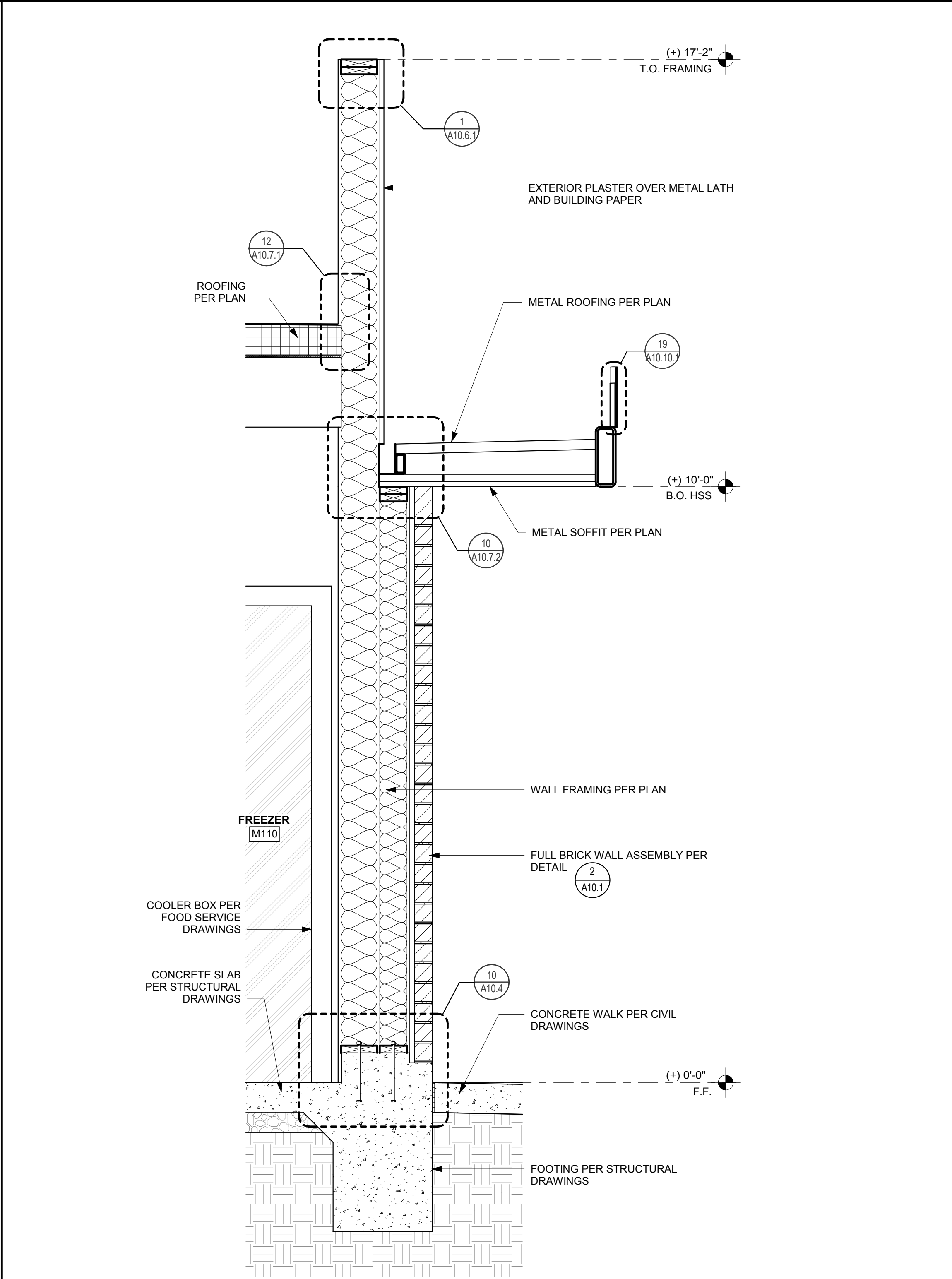


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BUILDING M - WALL SECTION AT EXISTING WALL

3/4" = 1'-0"

20



REF: 5 / AM2.1

BUILDING M - WALL SECTION AT CANOPY

3/4" = 1'-0"

10

GENERAL NOTES

- FOR FINISH INFORMATION, REFER TO INTERIOR ELEVATIONS AND FINISH SCHEDULE.
- SEE REFLECTED CEILING PLANS FOR CEILING INFORMATION.
- SEE FLOOR PLANS FOR WALL TYPES.

LEGEND

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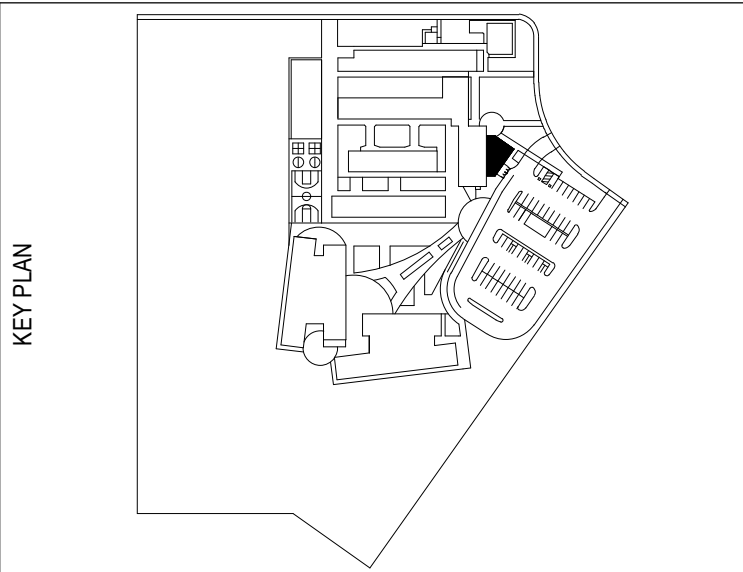
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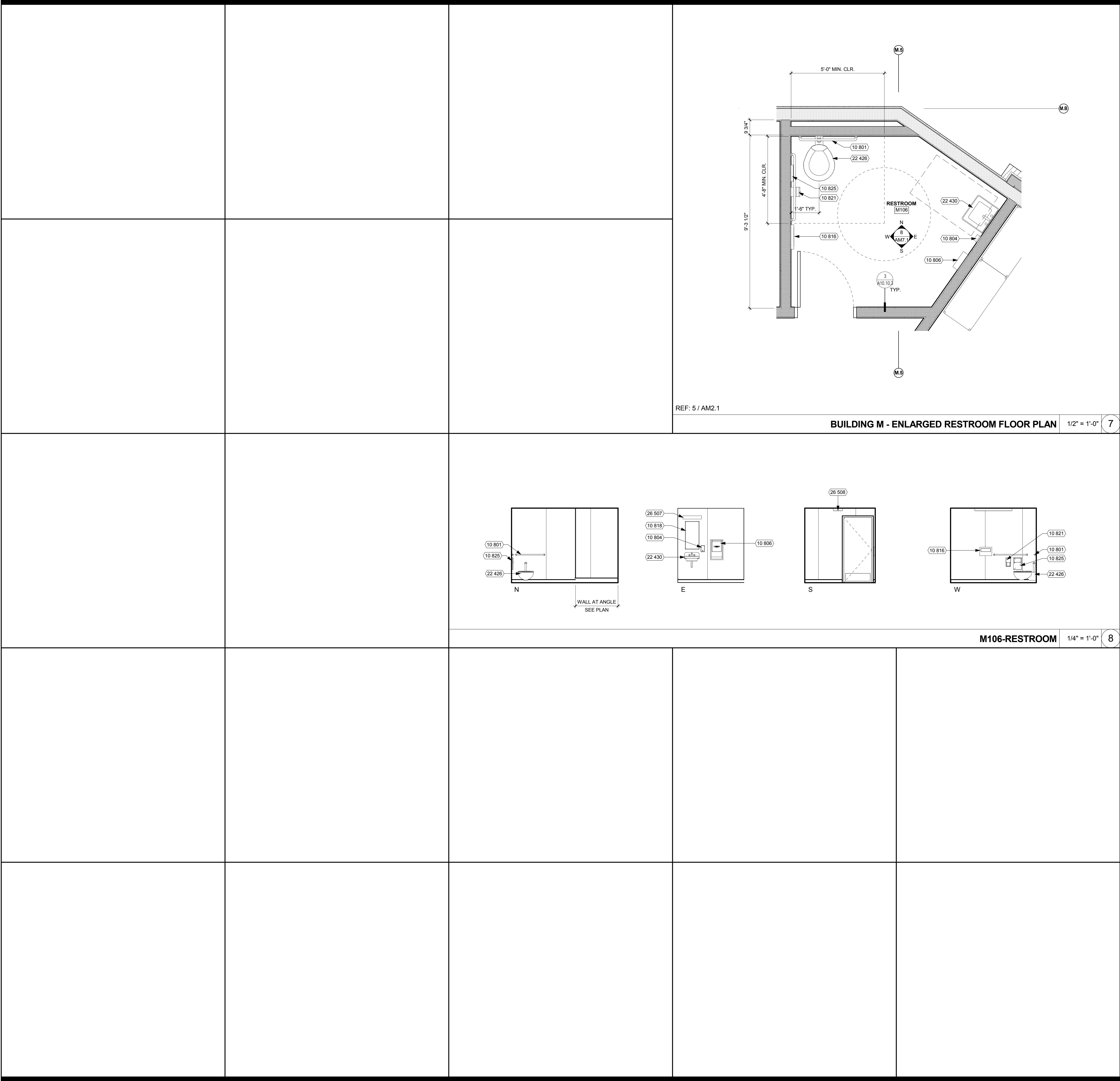
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BUILDING M BUILDING  
AND WALL SECTIONS

Date 05/20/2019	Project Number 19003
Scale As indicated	Drawing Number AM6.1
Drawn AA	Checked AM





KEY NOTES

NUMBER	NOTE
10 801	ACCESSIBLE GRAB BAR (SEE DETAIL 11/A10.10.2)
10 804	SOAP DISPENSER
10 806	ELECTRIC HAND DRYER
10 816	TOILET SEAT COVER DISPENSER
10 818	MIRROR
10 821	TOILET PAPER DISPENSER
10 825	SANITARY NAPKIN DISPOSAL
22 426	ACCESSIBLE WATER CLOSET
22 430	LAVATORY
26 507	WALL MOUNT LIGHT FIXTURE
26 508	SURFACE MOUNT LIGHT FIXTURE

GENERAL NOTES

GENERAL

1. DIMENSIONS

A. ALL MINIMUM CLEARANCE DIMENSIONS FOR PLUMBING FIXTURES ARE FROM FACE OF WALL FINISH TO CENTER OF FIXTURE, U.O.N.

B. ALL DIMENSIONS MARKED "MIN. CLR." OR "CLR." ARE TO/ FROM FACE OF WALL FINISH (F.O.F.)

2. SEE FINISH PLAN FOR INTERIOR FINISHES.

3. PROVIDE GLASSMAT BACKER BOARD AT ALL TILED WALLS AND WALLS WITHIN 48" OF ANY PLUMBING FIXTURE

4. ALL DRINKING FOUNTAIN ALCOVES TO BE FINISHED WITH WATER RESISTANT WALL MATERIAL. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS.

5. ALL FLOOR SLOPES IN RESTROOMS ARE NOT TO EXCEED 1:48 IN ANY DIRECTION.

6. FOR FLOOR DRAIN, SEE DETAIL 1 / A10.10.3

ACCESSORIES

1. ALL RESTROOM FIXTURES AND ACCESSORIES MOUNTING HEIGHTS AND LOCATIONS TO USE ADULT DIMENSIONS

2. FOR TYPICAL RESTROOM ACCESSORY MOUNTING HEIGHTS, ACCESSIBLE DIMENSIONS, SEE SHEET A10.10.2

3. TOILET ACCESSORIES LOCATED ON OR WITHIN WALLS SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE (CBC SECTION 1210.2.2)

4. PLUMBING FIXTURES TO HAVE SOLID BLOCKING AS REQUIRED BY CODE, SEE DETAIL 29 / A10.10.1

5. FOR MOP SINK WITH BROOM RACK, SEE DETAIL 6 / A10.10.3

STALLS AND PARTITIONS

1. REGARDLESS OF STALL CONFIGURATION, A 48" LONG MINIMUM CLEARANCE FLOOR SPACE SHALL BE PROVIDED IN FRONT OF THE ACCESSIBLE WATER CLOSET.

2. ALL ACCESSIBLE TOILET PARTITION DOORS TO BE 34" WIDE MINIMUM AND ALL NON-ACCESSIBLE TOILET PARTITION DOORS SHALL NOT BE LESS THAN 2'-2".

3. PARTITION STILE WIDTHS SHALL NOT EXCEED 4".

4. FOR PARTITION DETAILS, SEE DETAIL 19 / A10.10.2

5. INSTALL (1) COAT HOOK CENTERED ON THE BACK OF EVERY STALL DOOR, 40" A.F.F. AT ACCESSIBLE STALLS AND 72" A.F.F. AT NON-ACCESSIBLE STALLS.

6. FLUSH VALVE TO BE LOCATED AT WIDE SIDE OF STALL/ SPACE.

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05/20/2019

KEY PLAN

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BUILDING M TOILET ROOM PLANS AND ELEVATIONS

Date  
05/20/2019

Scale  
As indicated

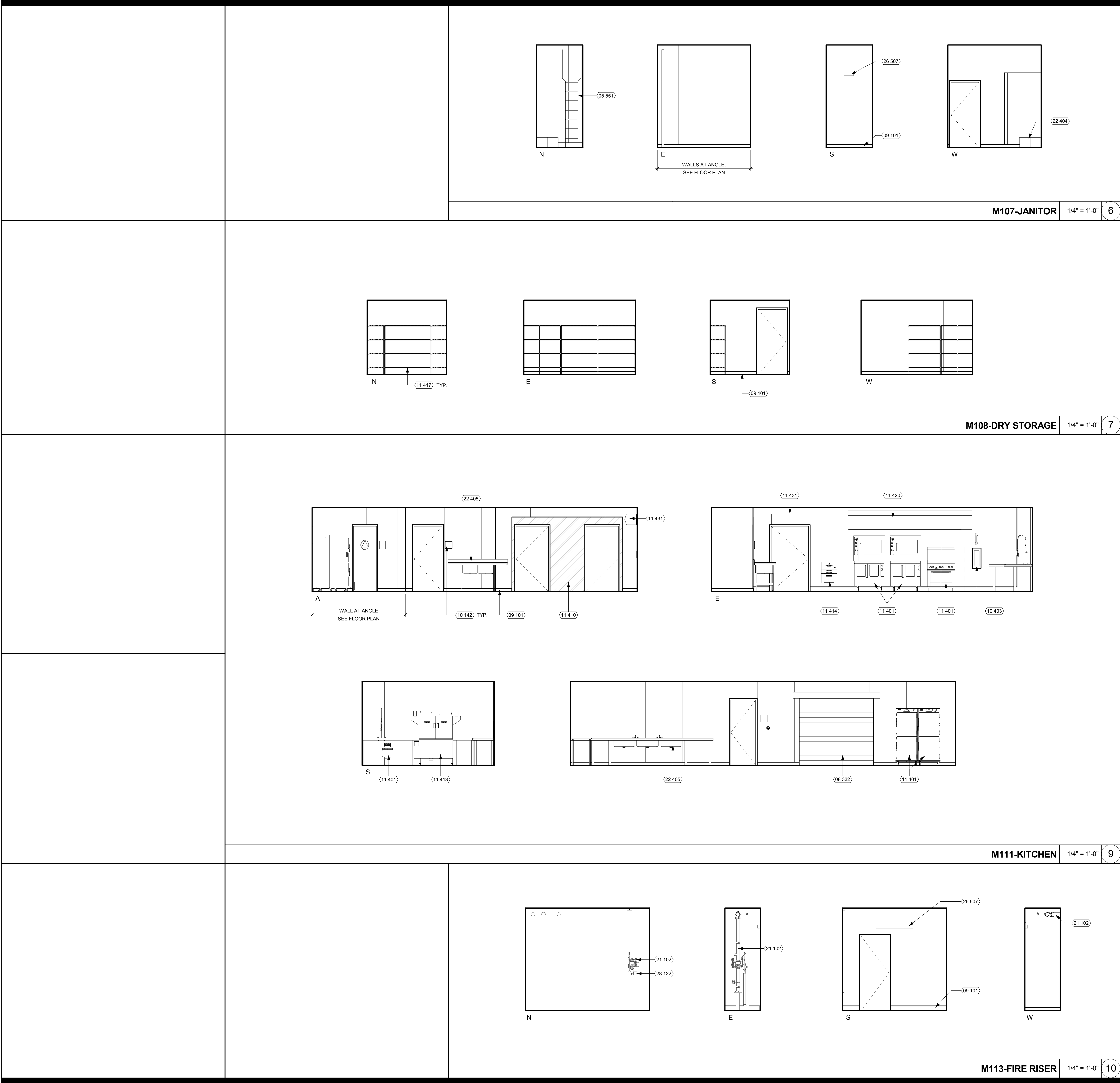
Drawn  
AA

Checked  
AM

Project Number  
19003

Drawing Number  
AM7.1





### KEY NOTES

NUMBER	NOTE
05 551	LADDER TO ROOF HATCH (SEE DETAIL 2/A10.7.1)
08 332	MOTORIZED OPERATED ROLL UP DOOR
09 101	WALL BASE (SEE FINISH SCHEDULE)
10 142	SIGNAGE PER CODE ANALYSIS PLAN
10 403	FIRE EXTINGUISHER (2A-10B-C) IN SEMI-RECESSED CABINET (SEE DETAIL 25/A10.10.2)
11 401	FOOD SERVICE EQUIPMENT (SEE FOOD SERVICE DWGS.)
11 410	WALK-IN COOLER / FREEZER (SEE FOOD SERVICE DWGS.)
11 413	DISHWASHER
11 414	HANDWASH SINK
11 417	SHELVING UNIT
11 420	EXHAUST HOOD (SEE FOOD SERVICE DWGS.)
11 431	AIR CURTAIN (SEE FOOD SERVICE DWGS.)
21 102	FIRE RISER (SEE FIRE PROTECTION DWGS)
22 404	MOP SINK (SEE DETAIL 6/A10.10.3)
22 405	SINK
26 507	WALL MOUNT LIGHT FIXTURE
28 122	FIRE ALARM MONITOR MODULE (SEE FIRE PROTECTION DWGS)

### GENERAL NOTES

- SEE ROOM FINISH SCHEDULE FOR FINISH INFORMATION AND LEGEND.
- ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE F-1, UNLESS NOTED OTHERWISE.
- SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS AND FINISHES.
- SEE FLOOR PLAN FOR WALL TYPES AND DOOR NUMBERS.
- ALL EXPOSED STRUCTURAL ROOF FRAMING TO BE PAINTED.
- ALL ACCENT WALL PAINT TO BE TERMINATED AT EITHER INSIDE CORNER AND/OR REVEALS.
- PROVIDE BACKING PLATES OR BLOCKING IN WALLS FOR ALL WALL MOUNTED EQUIPMENT SUCH AS SHELVING, MARKER BOARDS, AND DOOR STOPS. SEE DETAIL 29/A10.10.1.
- ALL MILLWORK TO BE INSTALLED PRIOR TO CARPET (WHERE OCCURS), BUT AFTER PAINT WORK. MILLWORK SHALL BE MOUNTED TO SUB-FLOOR. PROVIDE FILLER PANEL BETWEEN WALL AND CABINETS, TYP. FILLER PANELS TO BE MINIMAL.
- FOR SIGNAGE TYPES, SEE CODE ANALYSIS FLOOR PLAN.

### LEGEND

	TACK BOARD
	MARKER BOARD
	FRP2, PER FINISH SCHEDULE
	P2, PER FINISH SCHEDULE
	ETCHED GLAZING, PER WINDOW SCHEDULE

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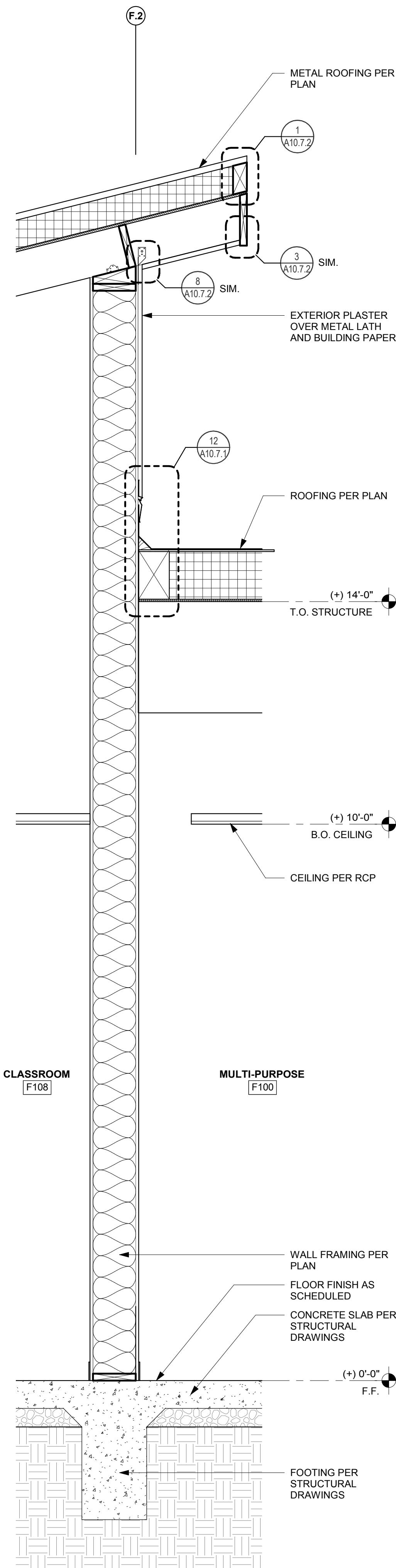
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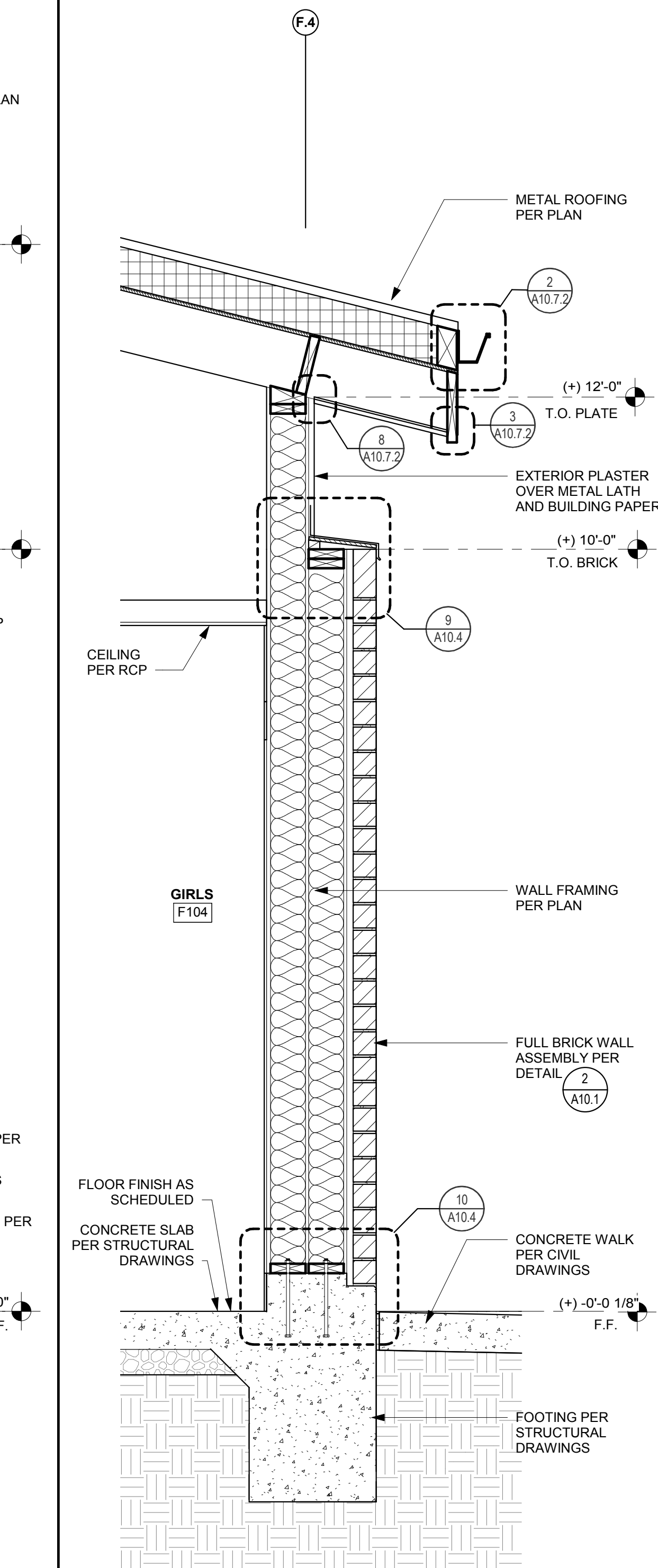
BUILDING M INTERIOR ELEVATIONS

Date 05/20/2019	Project Number 19003
Scale As indicated	Drawing Number AM8.1
Drawn AA	Checked AM

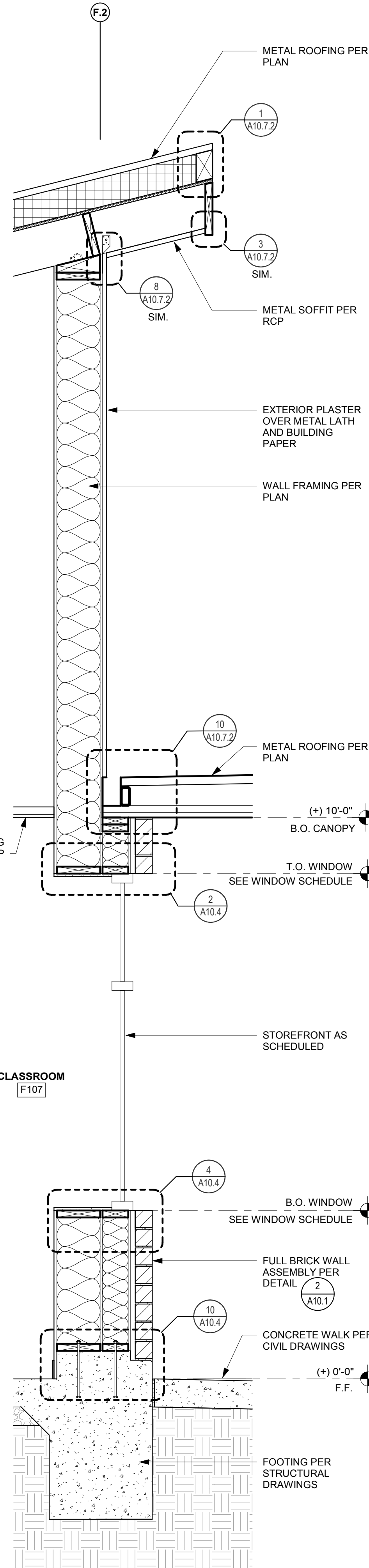




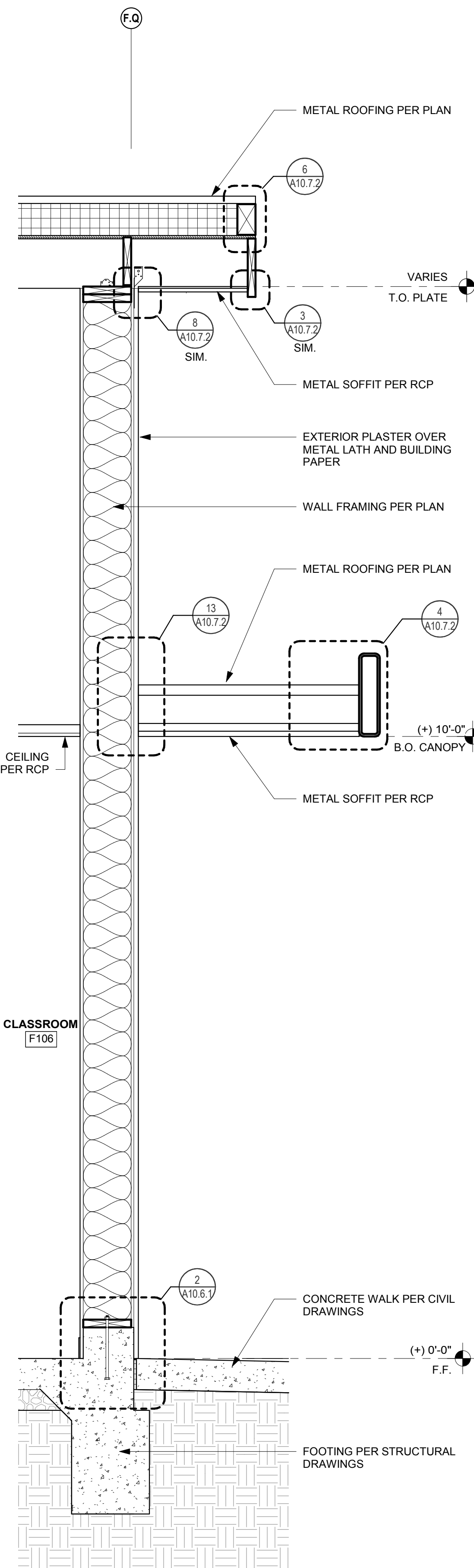
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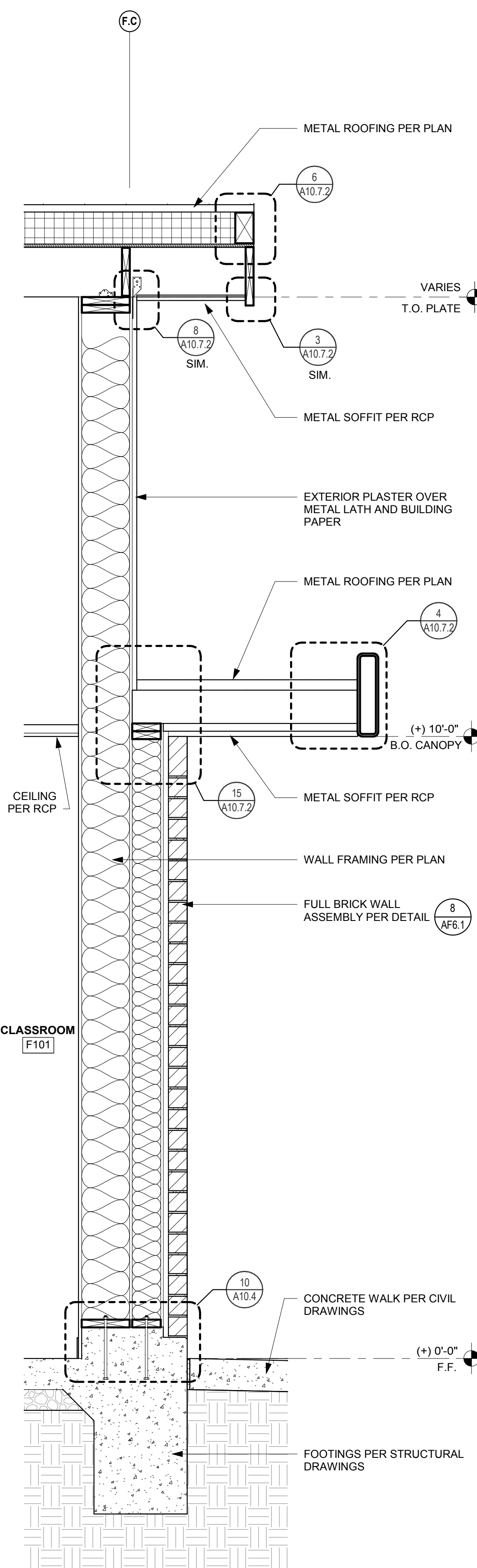
REF: 10 / AF2.1  
**BUILDING F - WALL SECTION AT RESTROOMS**  
3/4" = 1'-0"



REF: 10 / AF2.1  
**BUILDING F - WALL SECTION AT ENTRY CANOPY GUTTER**  
3/4" = 1'-0"



REF: 10 / AF2.1  
**BUILDING F - WALL SECTION AT ENTRY CANOPY**  
3/4" = 1'-0"



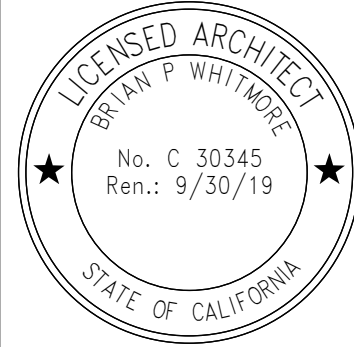
REF: 10 / AF2.1  
**BUILDING F - WALL SECTION AT ENTRY CANOPY WITH BRICK**  
3/4" = 1'-0"

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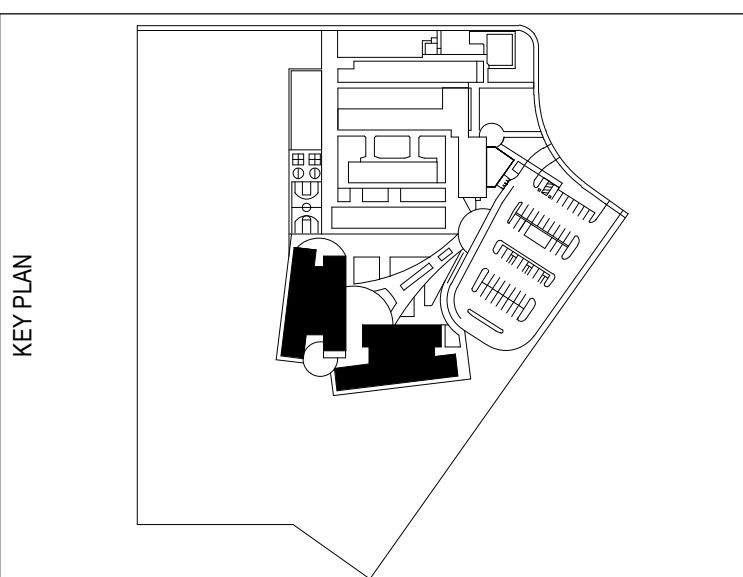
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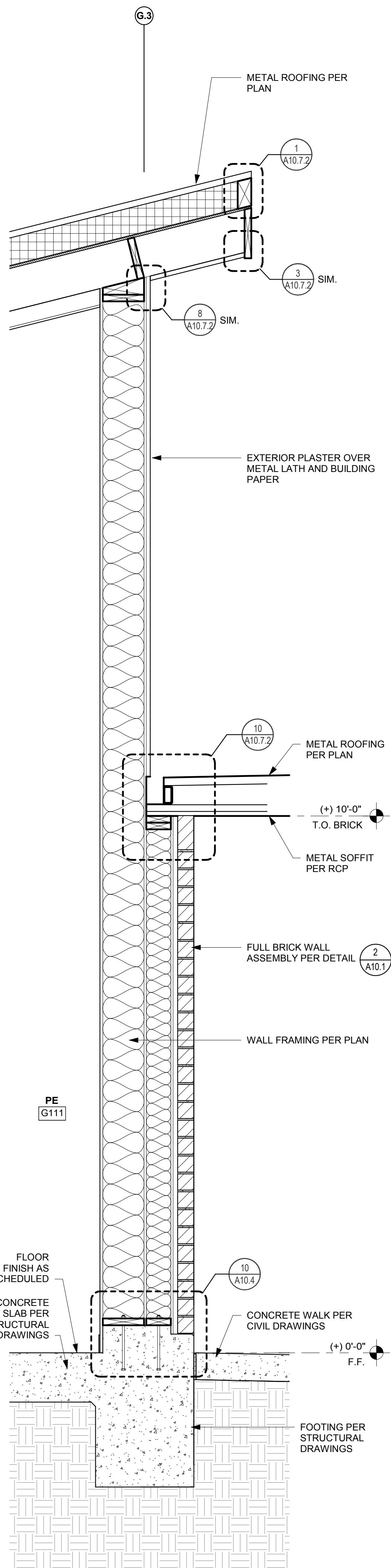
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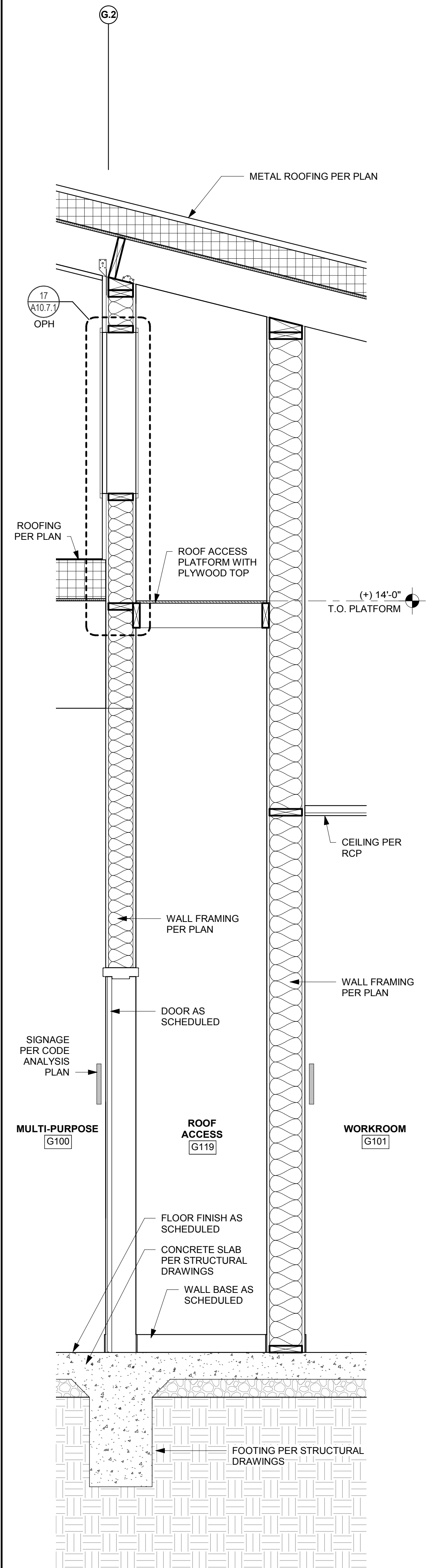
**BUILDINGS F & G WALL  
SECTIONS**

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Scale 3/4" = 1'-0"	Drawing Number <b>A6.4</b>
Drawn AA	Checked AM

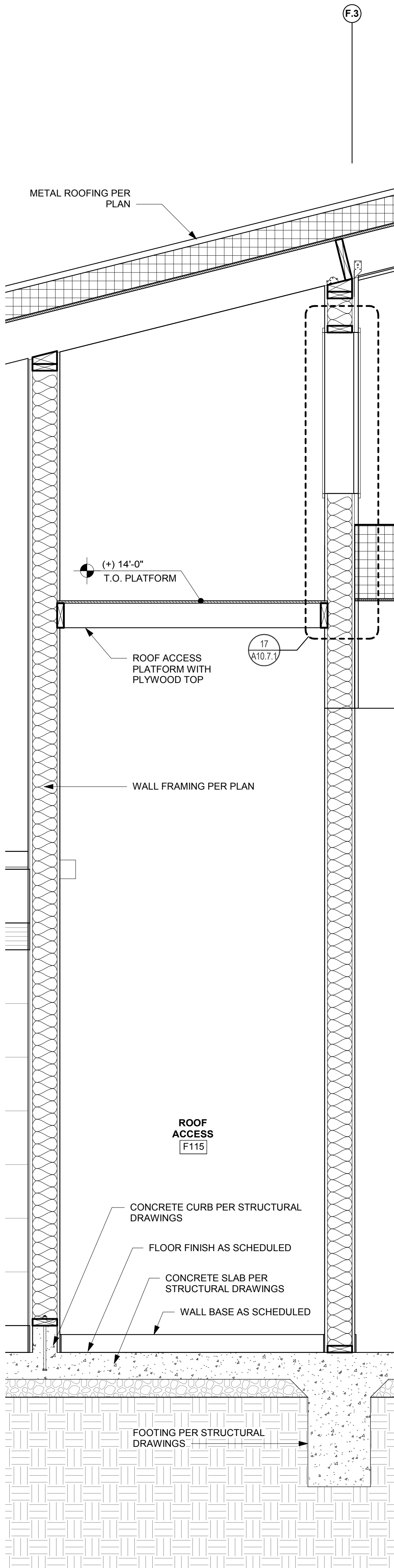




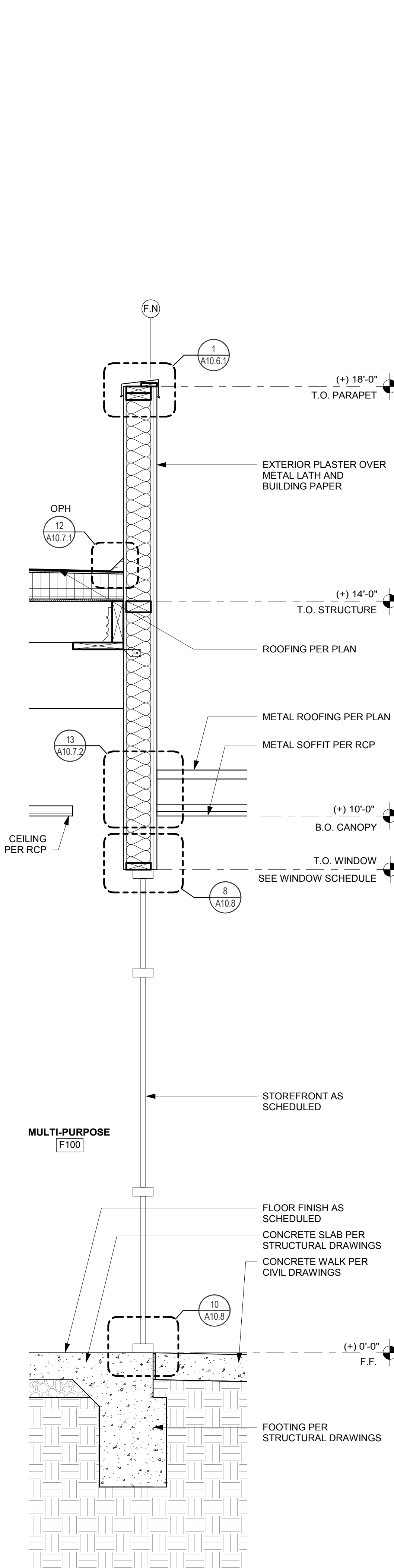
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**BUILDING G - WALL SECTION AT ENTRY CANOPY GUTTER**  
3/4" = 1'-0" 25



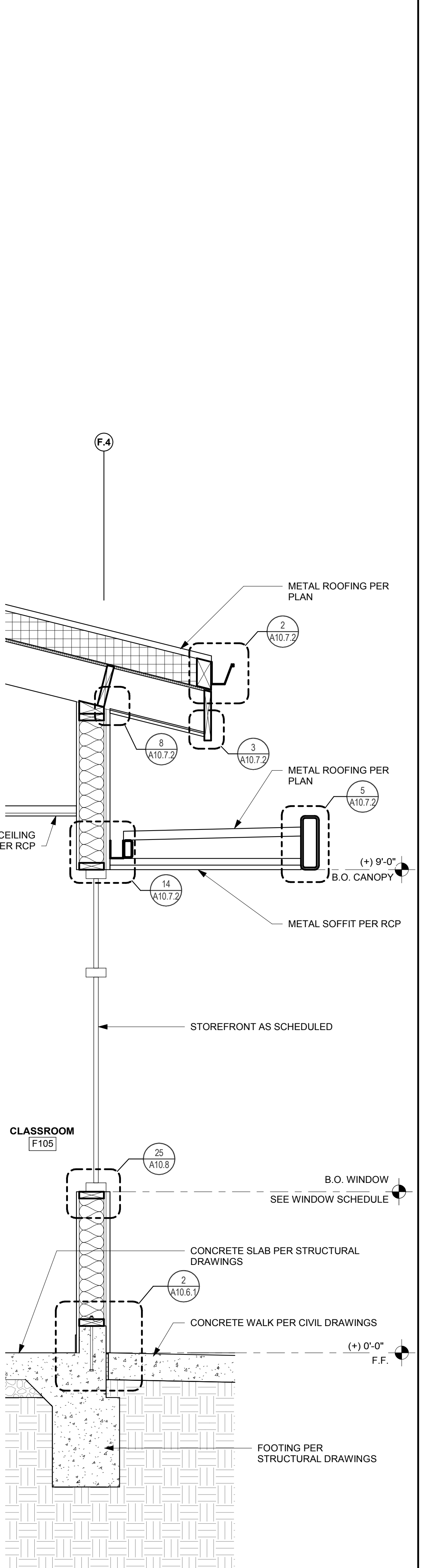
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3/4" = 1'-0" 20



REF: 10 / AF2.1  
**BUILDING F - WALL SECTION AT ROOF ACCESS PLATFORM**  
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REF: 10 / AF6.1  
**BUILDING F - WALL SECTION AT PARAPET**  
3/4" = 1'-0" 10



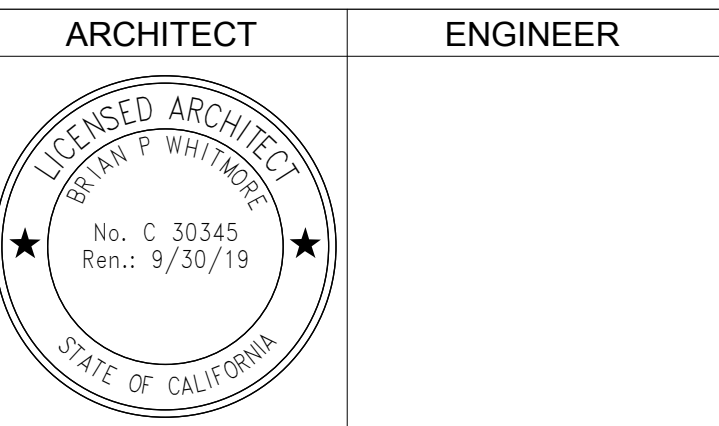
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3/4" = 1'-0" 5

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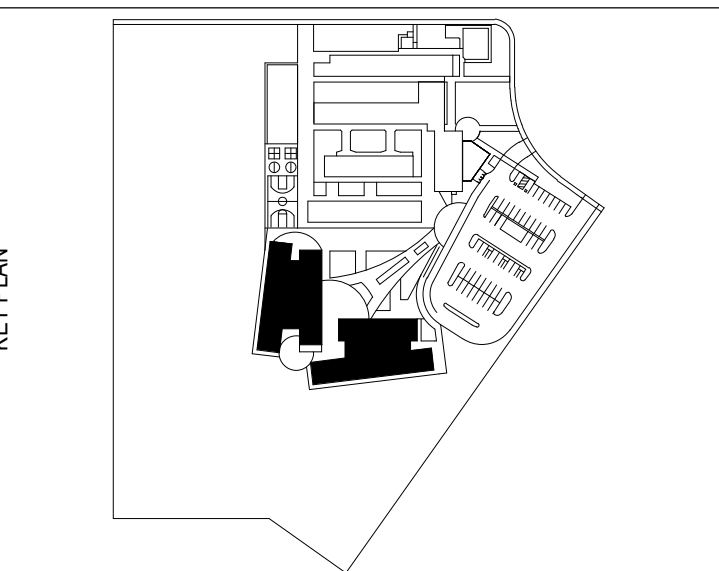
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<input type="radio"/> BIDDING	
<input type="radio"/> CONSTRUCTION	



WASHINGTON UNIFIED  
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930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

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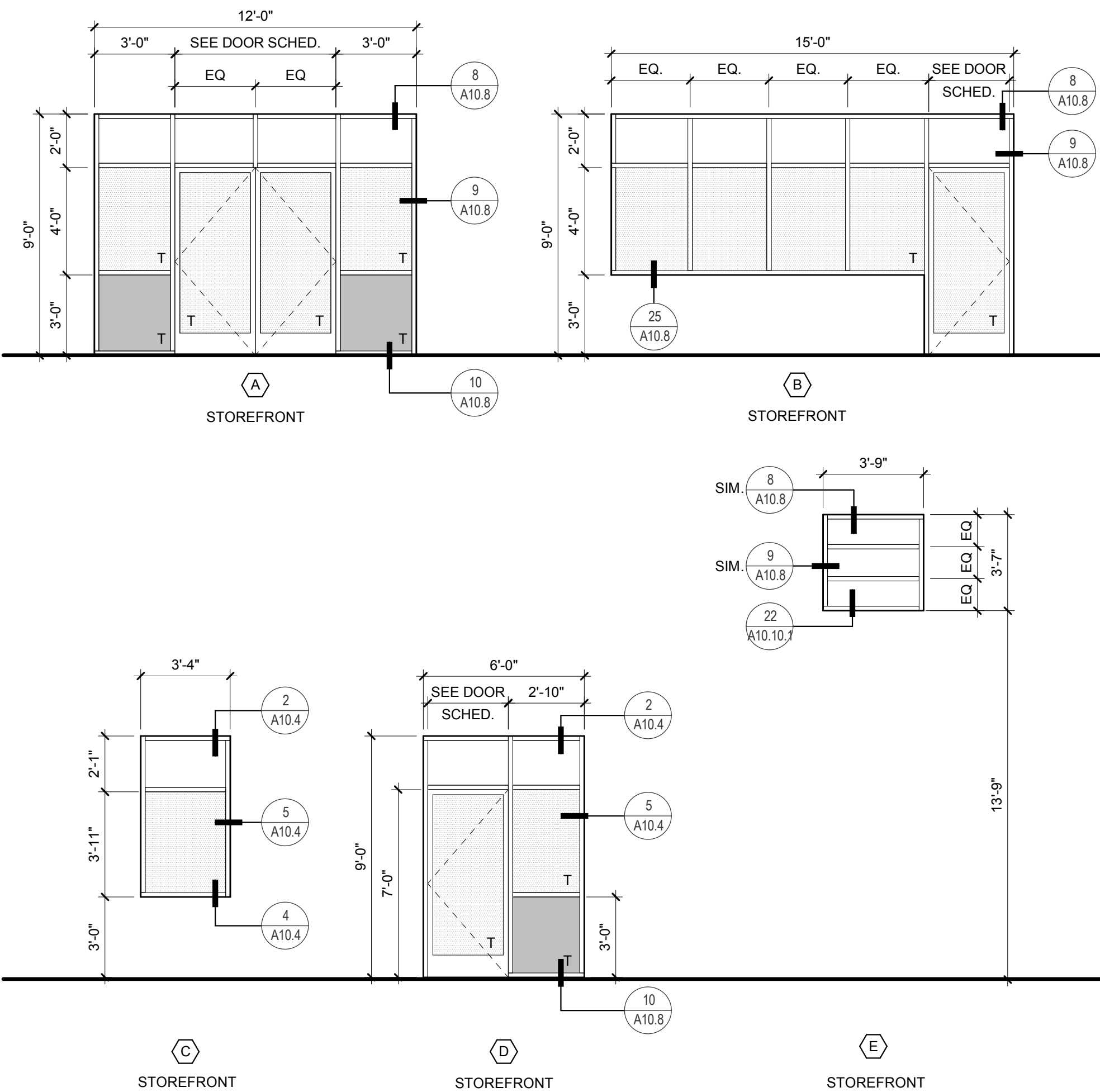
WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDINGS F & G WALL  
SECTIONS

Date  
05/20/2019  
Scale  
3/4" = 1'-0"  
Drawn  
AA  
Checked  
AM  
Project Number  
19003  
Drawing Number  
A6.5



## WINDOW TYPES



## WINDOW SCHEDULE

MARK	FRAME	GLASS	RATING	COMMENTS
A	FF	DG/EG	-	
A-4	FF	DG/EG	-	
B	FF	DG/EG	-	
B-17	FF	DG/EG	-	
C	10	FF	DG/EG	-
D	FF	DG/EG	-	
D-4	FF	DG/EG	-	
E	9	FF	DG/EG	-

## WINDOW GENERAL NOTES

- REFERENCE OF WINDOWS ARE MADE ON THE FLOOR PLANS, TYP.
- ALL WINDOWS ARE BASED ON NOMINAL 2" WINDOW PROFILE.
- ALL OVERALL DIMENSIONS CORRESPOND TO WINDOW ROUGH OPENINGS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO COORDINATE ROUGH OPENING SIZE WITH REQUIRED SHIM SPACERS AND FINISH FRAME DIMENSION.
- ALL ROUGH OPENING DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO WINDOW FABRICATION.
- ALL WINDOWS SHALL BE RATED STC 35 MINIMUM.
- ALL WINDOWS SHALL BE 20 MINUTE FIRE RATED UNLESS OTHERWISE NOTED.
- SAFETY GLAZING IS REQUIRED WHEN BOTTOM OF EXPOSED EDGE OF GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.
- SAFETY GLAZING SHALL COMPLY WITH CBC SECTION 2406.
- FOR TYPICAL MULLION DETAILS SEE 12 / A10.8 & 13 / A10.8
- ANY WINDOW SECTION WHOSE NEAREST VERTICAL EDGE IS WITHIN 24" FROM A DOOR IN CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60" ABOVE THE WALKING SURFACE SHALL BE TEMPERED. ALSO, ANY WINDOW SECTION WHERE THE LOWEST EDGE OF THE GLAZING MATERIAL IS LESS THAN 18" ABOVE THE FLOOR AND WHOSE TOP EDGE IS GRATER THAN 36" ABOVE THE FLOOR AND WHERE THE SECTION IS GREATER THAN 9 SF AND IS WITHIN 36" HORIZONTALLY OF A WALKING SURFACE SHALL BE TEMPERED.

## GLAZING LEGEND

	CLEAR GLASS
	TRUE FADE GLASS ETCHING BY WALKER TEXTURES. FOR PATTERN SEE DETAIL. 24 / A10.8
	"SATIN 1 FACE" ETCHING BY WALKER TEXTURES

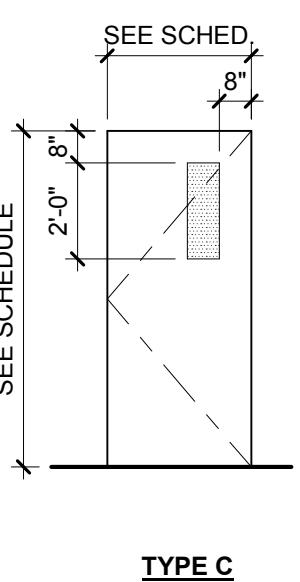
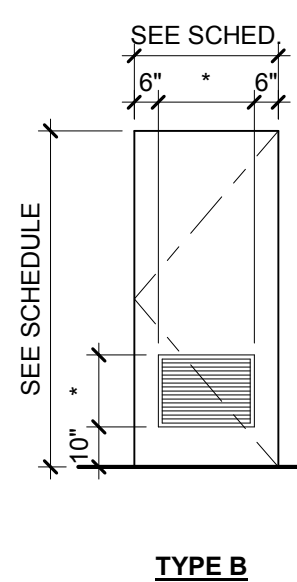
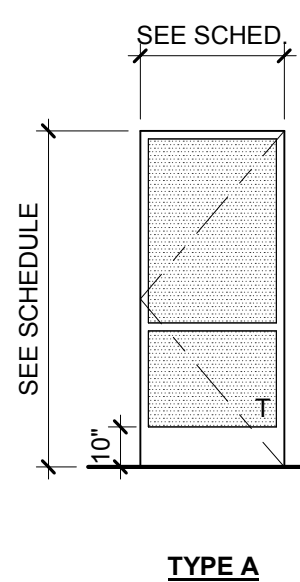
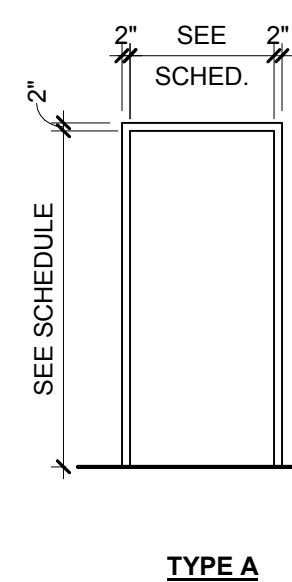
## WINDOW ABBREVIATIONS

**FRAME FINISH:**  
P PAINTED  
FF FACTORY FINISH

**REMARKS:**  
TEMPERED, CATEGORY II  
(CATEGORY I AND II CLASSIFICATIONS PER CBC SECTION 2406)

**GLAZING TYPE (SEE SPECIFICATION SECTION 08.80.00):**  
DG DUAL GLAZING, 1" THICK INSULATED UNIT  
(2) 1/4" GLAZING PANES WITH AIR GAP  
SP SINGLE PANE GLAZING  
(1) 1/4" THICK GLAZING PANE  
EG ETCHED GLAZING, SEE GLAZING LEGEND FOR TYPES

## DOOR FRAME TYPES



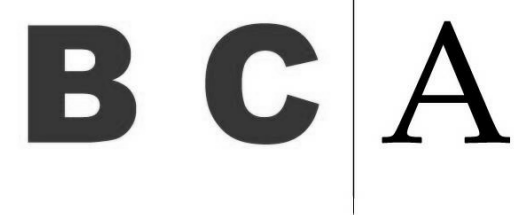
NOTES:  
1. DOOR TYPES WITH TWO LETTER DESIGNATIONS INDICATES A PAIR OF THE SINGLE DOOR TYPE DESIGNATION.

TYPE A  
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VISIONTYPE D  
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ROOM FINISH SCHEDULE													BASE MATERIAL LEGEND				
ROOM		FLOOR		WALLS					CASEWORK			CEILING	COMMENTS	SYMBOL	MATERIAL	BASIS OF DESIGN MANUFACTURER	STYLE/COLOR
NO.	NAME	MATERIAL	BASE	NORTH (N)	EAST (E)	SOUTH (S)	WEST (W)	WAINSCOT	BASE	UPPER	COUNTER						
F100	MULTI-PURPOSE	EC/SC	RB	P1	P1/P2/FRP2	P1	P1/P2/TB	-	-	-	-	AC1/NC (P3)					
F101	CLASSROOM	EC	RB	P1	P1	P1	P2/TB	-	PL	-	SS	AC1					
F102	CLASSROOM	EC	RB	P1	P1	P1	P2/TB	-	PL	-	SS	AC1/P1					
F103	BOYS	EPX	EPX	T1/T2	T1/T2	T1/T2	T1/T2	-	-	-	-	P1					
F104	GIRLS	EPX	EPX	T1/T2	T1/T2	T1/T2	T1/T2	-	-	-	-	P1					
F105	CLASSROOM	EC	RB	P1	P1	P1	P2/TB	-	PL	-	SS	AC1/P1					
F106	CLASSROOM	EC	RB	P1	P1	P1	P2/TB	-	PL	-	SS	AC1/P1					
F107	CLASSROOM	EC	RB	P2/TB	P1	P1	P1	-	PL	-	SS	AC1/P1					
F108	CLASSROOM	EC	RB	P1	P2/TB	P1	P1	-	PL	-	SS	AC1/P1					
F109	CLASSROOM	EC	RB	P1	P2/TB	P1	P1	-	PL	-	SS	AC1/P1					
F110	CLASSROOM	EC	RB	P1	P2/TB	P1	P1	-	PL	-	SS	AC1/P1					
F111	CLASSROOM	EC	RB	G82	P2/TB	P1	P1	-	PL	-	SS	AC1/P1					
F112	ELECTRICAL	EC	RB	PLY (P1)	PLY (P1)	PLY (P1)	PLY (P1)	-	-	-	-	NC					
F113	FIRE RISER	EC	RB	PLY (P1)	PLY (P1)	PLY (P1)	PLY (P1)	-	-	-	-	NC					
F114	JANITOR	EC	RB	P1/FRP	P1/FRP	P1	P1	-	-	-	-	P1					
F115	ROOF ACCESS	EC	RB	PLY (P1)	PLY (P1)	PLY (P1)	PLY (P1)	-	-	-	-	NC					
G100	MULTI-PURPOSE	EC/SC	RB	P1/P2/FRP2	P1	P1/P2/TB	P1	-	-	-	-	AC1/NC-P3					
G101	WORKROOM	CPT	RB	P1	P1	P1	P1	-	PL	PL	SS	AC1/P1					
G102	OFFICE	CPT	RB	P1	P1	P1	P1	-	-	-	-	AC1					
G103	GENDER NEUTRAL	EPX	EPX	T1/T2	T1/T2	T1/T2	T1/T2	-	-	-	-	P1					
G104	GIRLS	EPX	EPX	T1/T2	T1/T2	T1/T2	T1/T2	-	-	-	-	P1					
G105	BOYS	EPX	EPX	T1/T2	T1/T2	T1/T2	T1/T2	-	-	-	-	P1					
G106	CLASSROOM	EC	RB	P1	P1	P2/TB	P1	-	PL	-	SS	AC1/P1					
G107	STORAGE	EC	RB	PLY (P1)	PLY (P1)	PLY (P1)	PLY (P1)	-	PL	-	-	AC1					
G108	CLASSROOM	EC	RB	P1	P1	P2/TB	P1	-	PL	-	SS	AC1/P1					
G109	STORAGE	EC	RB	PLY (P1)	PLY (P1)	PLY (P1)	PLY (P1)	-	-	-	-	NC					
G110	STORAGE	EC	RB	PLY (P1)	PLY (P1)	PLY (P1)	PLY (P1)	-	-	-	-	NC					
G111	PE	EC	RB	P1	P1	P1	P1	-	-	-	-	NC					
G112	CLASSROOM	EC	RB	P2/TB	P1	P1	P1	-	PL	-	SS	AC1/P1					
G113	CLASSROOM	EC	RB	P2/TB	P1	P1	P1	-	PL	-	SS	AC1/P1					
G114	CLASSROOM	EC	RB	P2/TB	P1	P1	P1	-	PL	-	SS	AC1/P1					
G115	CLASSROOM	EC	RB	P2/TB	P1	P1	P1	-	PL	-	SS	AC1/P1					
G116	STORAGE	EC	RB	PLY (P1)	PLY (P1)	PLY (P1)	PLY (P1)	-	-	-	-	NC					
G117	ELECTRICAL	EC	RB	PLY (P1)	PLY (P1)	PLY (P1)	PLY (P1)	-	-	-	-	NC					
G118	FIRE RISER	EC	RB	PLY (P1)	PLY (P1)	PLY (P1)	PLY (P1)	-	-	-	-	NC					
G119	ROOF ACCESS	EC	RB	PLY (P1)	PLY (P1)	PLY (P1)	PLY (P1)	-	-	-	-	NC					
M101	MULTIPURPOSE ROOM	-	-	-	-	-	-	-	-	-	-	-					
M102	PLATFORM	-	-	-	-	-	-	-	-	-	-	-					
M103	STORAGE	-	-	-	-	-	-	-	-	-	-	-					
M104	STORAGE	-	-	-	-	-	-	-	-	-	-	-					
M105	ELECTRICAL ROOM	-	-	-	-	-	-	-	-	-	-	-					
M106	RESTROOM	EPX	EPX	FRP1	FRP1	FRP1	FRP1	-	-	-	-	P1					
M107	JANITOR	EPX	EPX	FRP1	FRP1	FRP1	FRP1	-	-	-	-	NC					
M108	DRY STORAGE	EPX	EPX	FRP1	FRP1	FRP1	FRP1	-	-	-	-	AC2					
M109	REFRIGERATOR	EC	-	-	-	-	-	-	-	-	-	-					
M110	FREEZER	EC	-	-	-	-	-	-	-	-	-	-					
M111	KITCHEN	EPX	EPX	FRP1	FRP1	FRP1	FRP1	-	-	-	-	AC2					
M112	DISHWASHING	EPX	EPX	FRP1	FRP1	FRP1	FRP1	-	-	-	-	AC2					
M113	FIRE RISER	EC	RB	PLY (P1)	PLY (P1)	PLY (P1)	PLY (P1)	-	-	-	-	NC					
<div>NOTES:</div> <div><div>1.</div><div>ALL FINISHES SHALL COMPLY WITH CBC CHAPTERS 3-8 &amp; 10 AND TITLE 19 C.C.R.</div></div> <div><div>2.</div><div>PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL RESTROOMS, MOP SINK AREAS AND WALLS ADJACENT TO ANY SINK OR DRINKING FOUNTAIN WHERE GYPSUM BOARD IS SCHEDULED.</div></div> <div><div>3.</div><div>DO NOT INSTALL MOISTURE RESISTANT GYPSUM BOARD AT CEILING PLANES.</div></div> <div><div>4.</div><div>THINSET CERAMIC WALL TILE OVER STUD FRAMING TO BE OVER 5/8" MOISTURE RESISTANT GYPSUM BOARD.</div></div> <div><div>5.</div><div>ALL INTERIOR CORNERS TO HAVE CORNER GUARDS INSTALLED PER DETAIL. 28 / A10.10.2</div></div>																	

DSA STAMP



architecture  
planning  
interiors

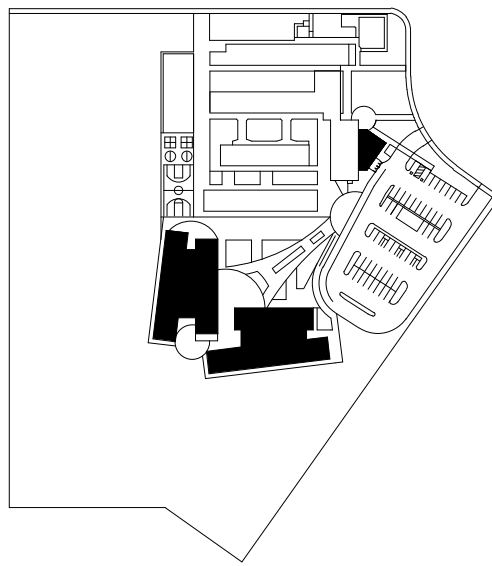
BCA Architects  
980 9th St. Suite 2050  
Sacramento, California 95814  
[ T ] 916.254.5600  
[www.BCAarchitects.com](http://www.BCAarchitects.com)

ARCHITECT	ENGINEER
	

- |               |  |
|---------------|--|
| GENERAL NOTES | 1. This sheet is part of a set and is not to be used alone.  |
|               | 2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.                                    |
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[illegible]

DRAWING STATUS		DATE
<input checked="" type="radio"/>	DSA PLAN CHECK	05/20/2019
<input type="radio"/>	DSA BACK CHECK	
<input type="radio"/>	BIDDING	
<input type="radio"/>	CONSTRUCTION	



WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
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## DSA SUBMITTAL

**WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691**

## ROOM FINISH SCHEDULE

Date \_\_\_\_\_

05/20/2019

Scale

 $12'' = 1'-0''$ 

Drawn

Project Number

19003

Drawing Number

402

Checked **A9.5**

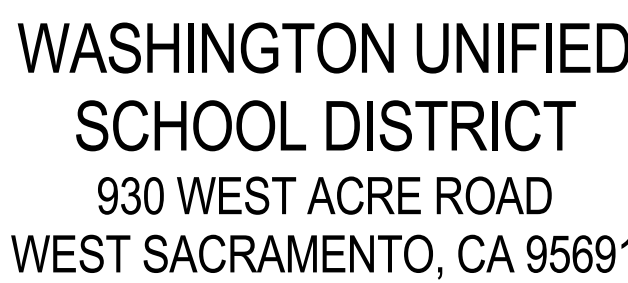
## A9.3



GENERAL NOTES

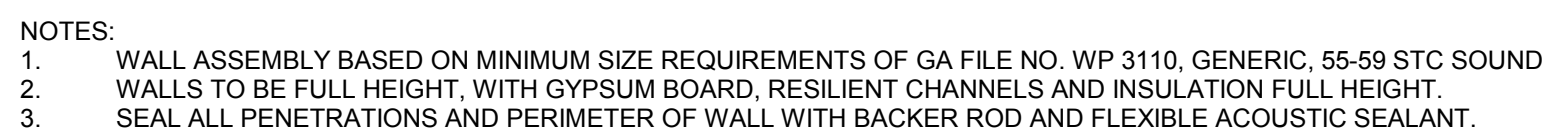
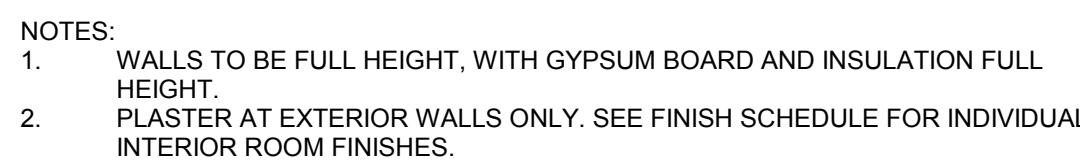
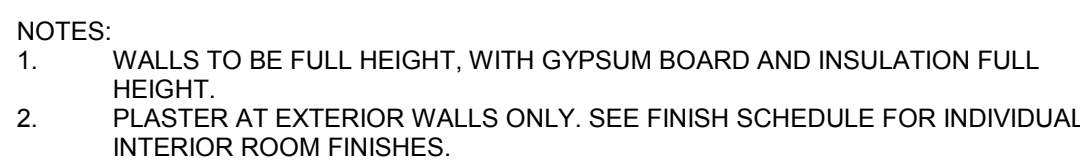
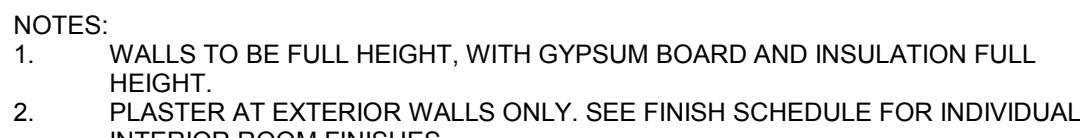
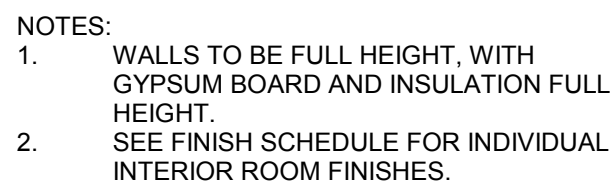
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<input type="radio"/>	DSA BACK CHECK	
<input type="radio"/>	BIDDING	
<input type="radio"/>	CONSTRUCTION	



**WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691**

## A10.1



**WOOD STUDS** - NOM. 2x4, SPACED 16" O.C. WITH 2"x2x4 TOP AND ONE 2"x4 BOTTOM PLATES, AS AN OPTION, NOM. 2x6, SPACED 24" O.C. WITH 2"x6 TOP AND 1"x2 BOTTOM PLATES CAN BE USED IN LIEU OF 2x4 STUDS AND PLATES. STUDS EFFECTIVELY V-FLY STOPPED.

**BATTING** - NOM. 3 1/2" R-19 FIBERGLASS BATT INSULATION, UNFACED MINERAL FIBER INSULATION, NOM. 5/8" THICK, 47 1/2" WIDE, 120" LONG, 2 LAYERS APPLIED VERTICALLY; BASE LAYER NAILED TO WOOD STUDS AND BEARING PLATES 6" OC, WITH #6 HEMMENT COATED NAILS, 1-7/8" LONG, 0.0915" SHANK DIA. AND 1/4" DIA. HEAD, THE FACE LAYER, WITH JOINTS STAGGERED FROM BASE LAYER, NAIL TO THE STUDS AND BEARING PLATES USING THE SAME BASIC LAYER, 6" OC, WITH #6 HEMMENT COATED NAILS, 2-3/8" LONG, 0.113" SHANK DIA. 9/32" DIA. HEAD.

**JOINTS AT HEADS** - JOINTS AT HEADS SHALL BE COVERED BY COMBINATION OF JOINTS AT HEADS COVERED WITH JOINT COMPOUND.

**BATTS AND BLANKETS** - FACED OR UNFACED MINERAL FIBER INSULATION, 3-1/2" THICK, 48" WIDE, 96" DEEP. PRESSURE FIT IN THE WALL CAVITY BETWEEN STUD, PLATE, AND CROSS BRACING; IF 2x6" STUDS (ITEM 1) ARE USED, MIN. 5/12" OF UNFACED MINERAL FIBER INSULATION, NOM. 3.0 PCF. PRESSURE FIT IN THE WALL CAVITY BETWEEN STUD, PLATE, AND CROSS BRACING.

**BUILDING UTILITY** - BUILDING UTILITIES NAILED TO THE WOOD FRAMING WITH 1-7/8" LONG, 6d NAILS. SPACING 6" O.C. ON THE PERIMETER AND 12" O.C. IN THE FIELD WHEN STEEL STUDS ARE USED MIN. 1-7/8" LONG STEEL SCREWS INSTALLED 6" O.C. ON THE PERIMETER AND 12" O.C. IN THE FIELD.

**FACING** - EXTERIOR FACIING APPROVED BY THE AUTHORITY HAVING JURISDICTION INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

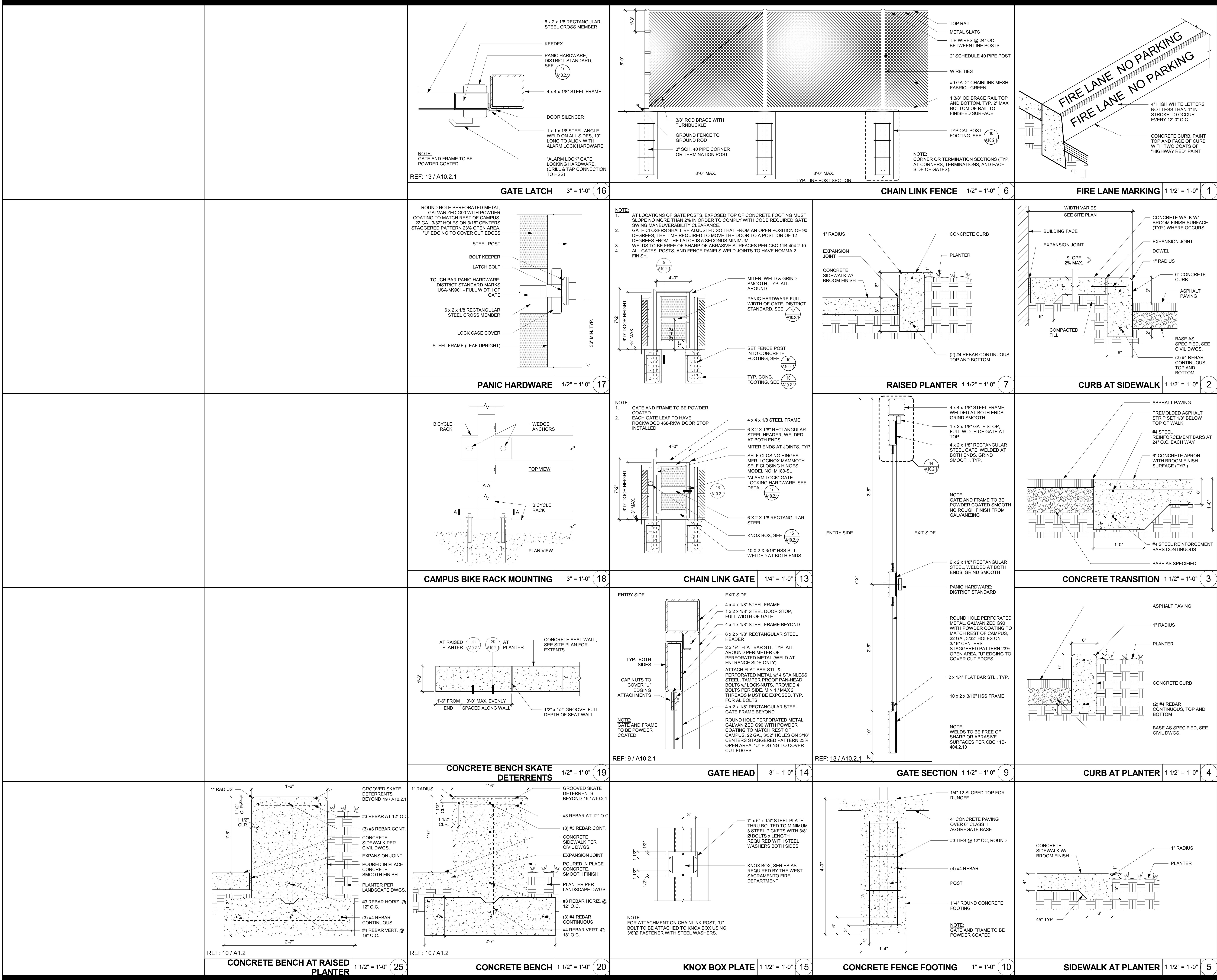
\*VERIFY WITH STRUCTURAL DRAWINGS

- ADDITIONAL NOTES:  
1. WALLS TO BE FULL HEIGHT, WITH GYPSUM BOARD AND INSULATION FULL HEIGHT  
2. SEE FINISH SCHEDULE FOR INDIVIDUAL INTERIOR ROOM FINISHES.



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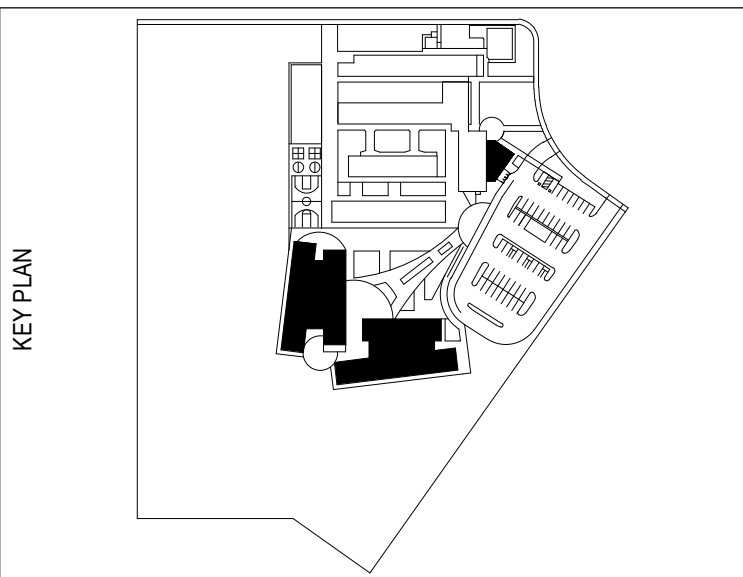
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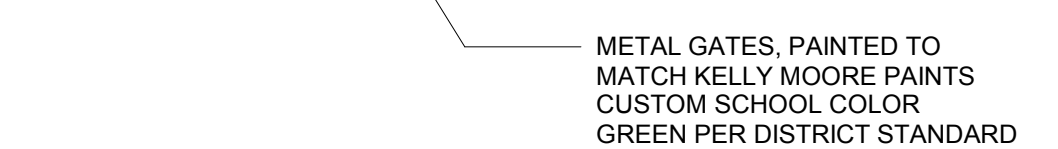
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SITE DETAILS

Date 05/20/2019	Project Number 19003
Scale As indicated	Drawing Number A10.2.1
Drawn AA	Checked AM



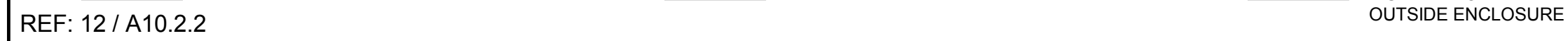


12

1. ALL CONCRETE BLOCK  
MORTAR JOINTS SHALL BE  
FLUSH AND SMOOTH AT INSIDE  
FACE.
2. SEE SITE PLAN FOR  
LOCATION OF TRASH  
ENCLOSURE.
3. THE TRASH ENCLOSURE  
PAD SHALL BE SEALED WITH A  
'NON-PIGMENTED' CLEAR  
CONCRETE SEALER.
4. REFER TO CIVIL DRAWINGS  
FOR CONCRETE STRENGTH  
AND REINFORCING STEEL  
REQUIREMENTS.
5. CMU SHALL CONFORM TO  
ASTM C-90 GRADE N-1 UNITS.
6. FULLY GROUT ALL CMU  
WALLS.



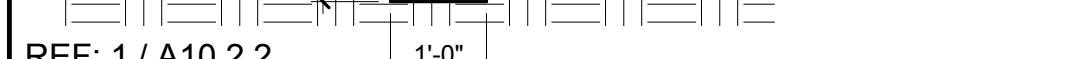
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2



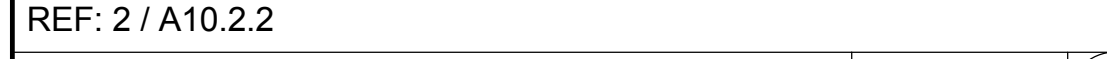
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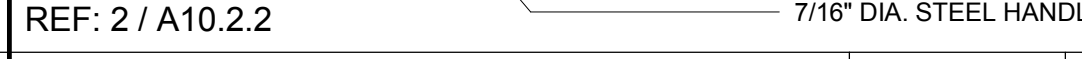
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4



1

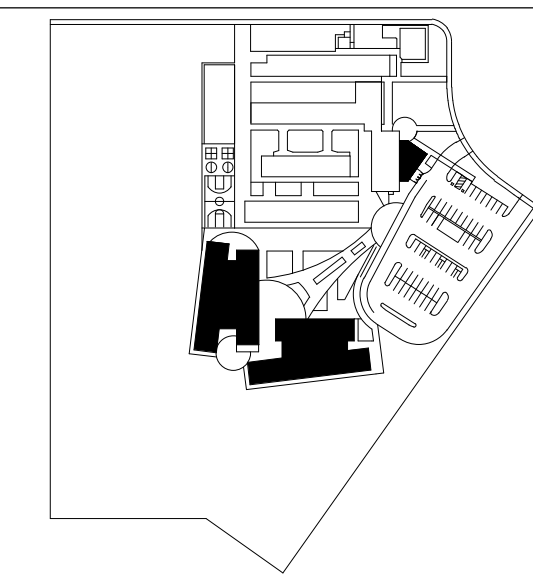


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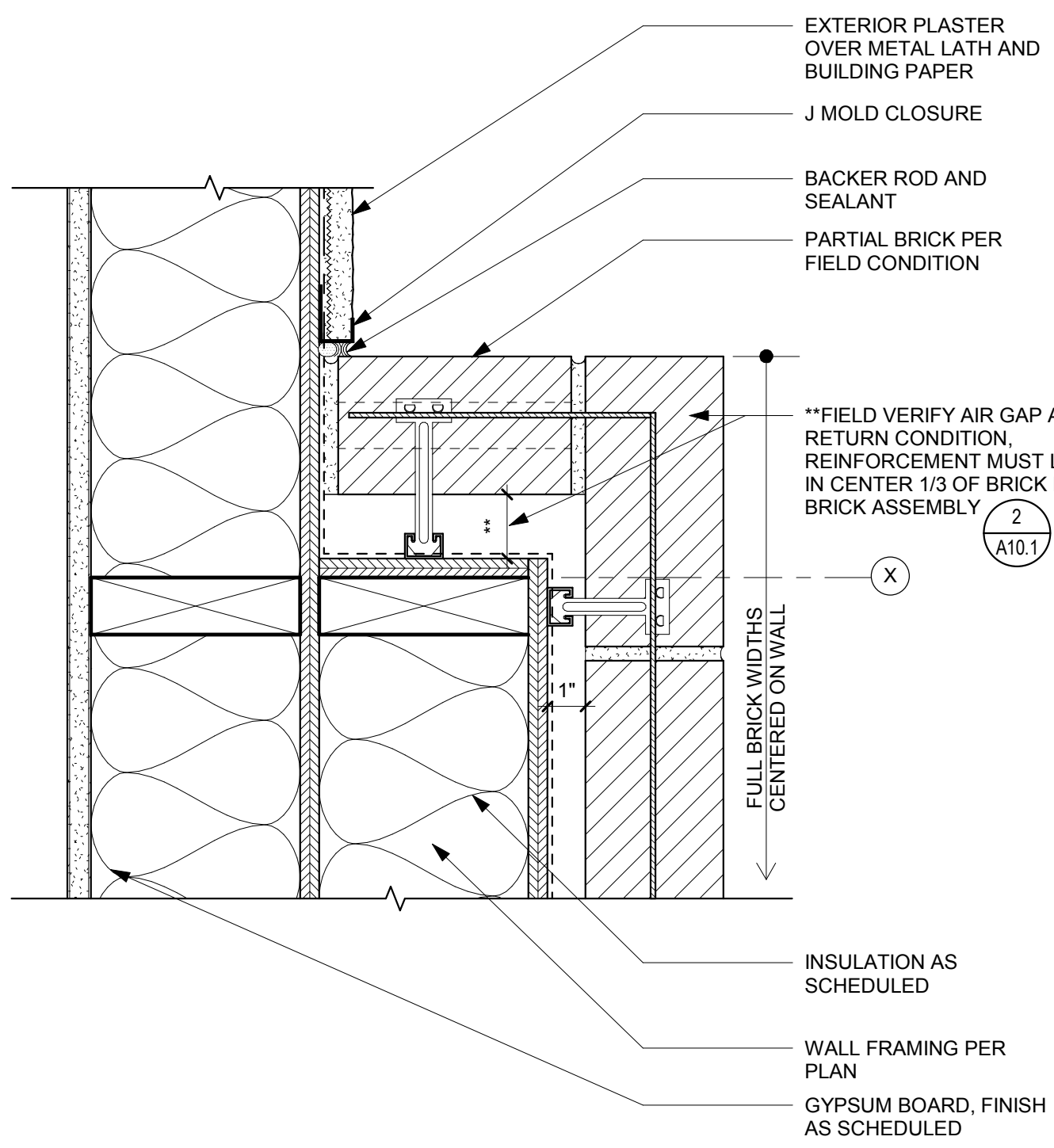


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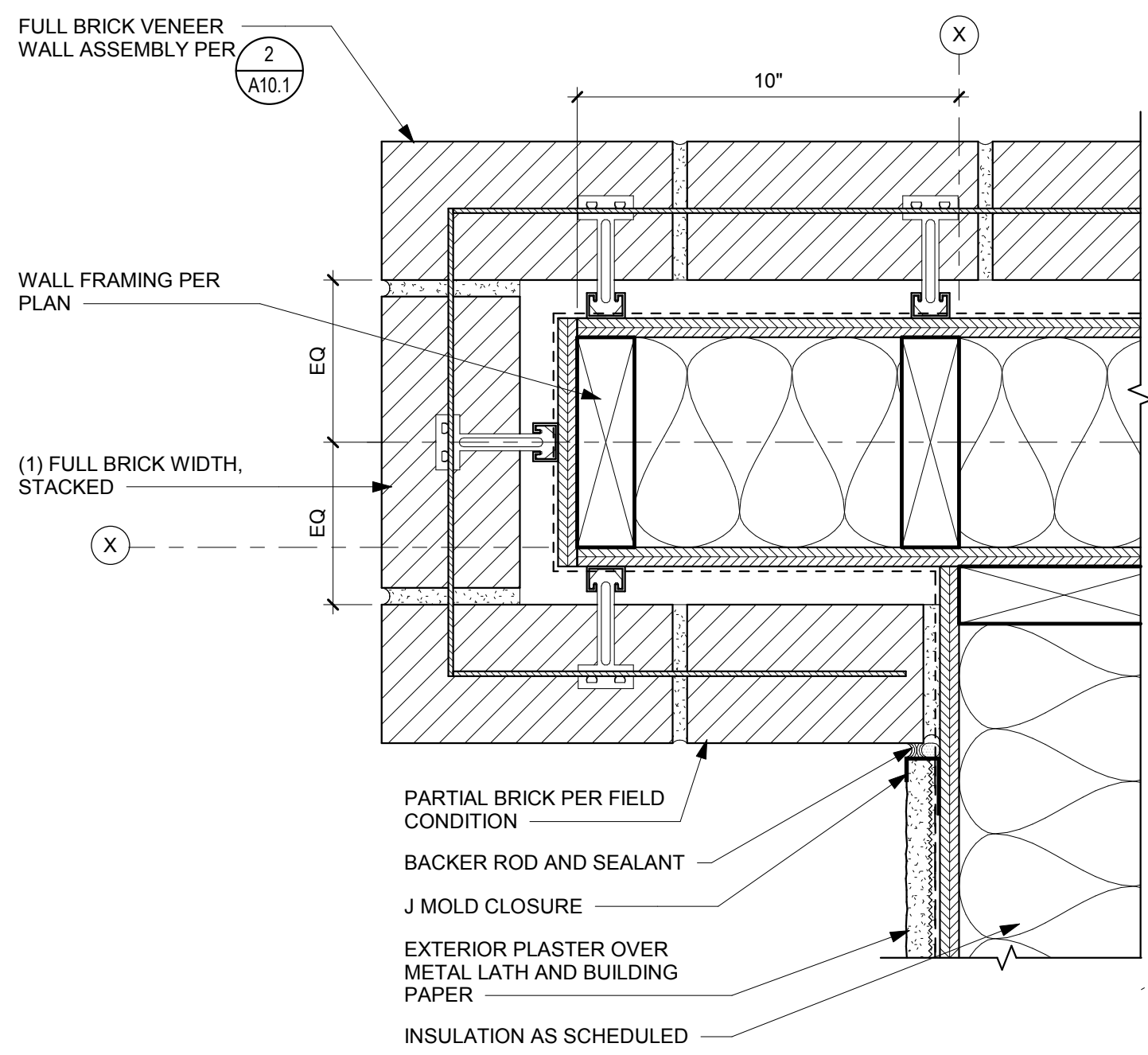




BRICK LAYOUT AT DOUBLE WALL

3" = 1'-0"

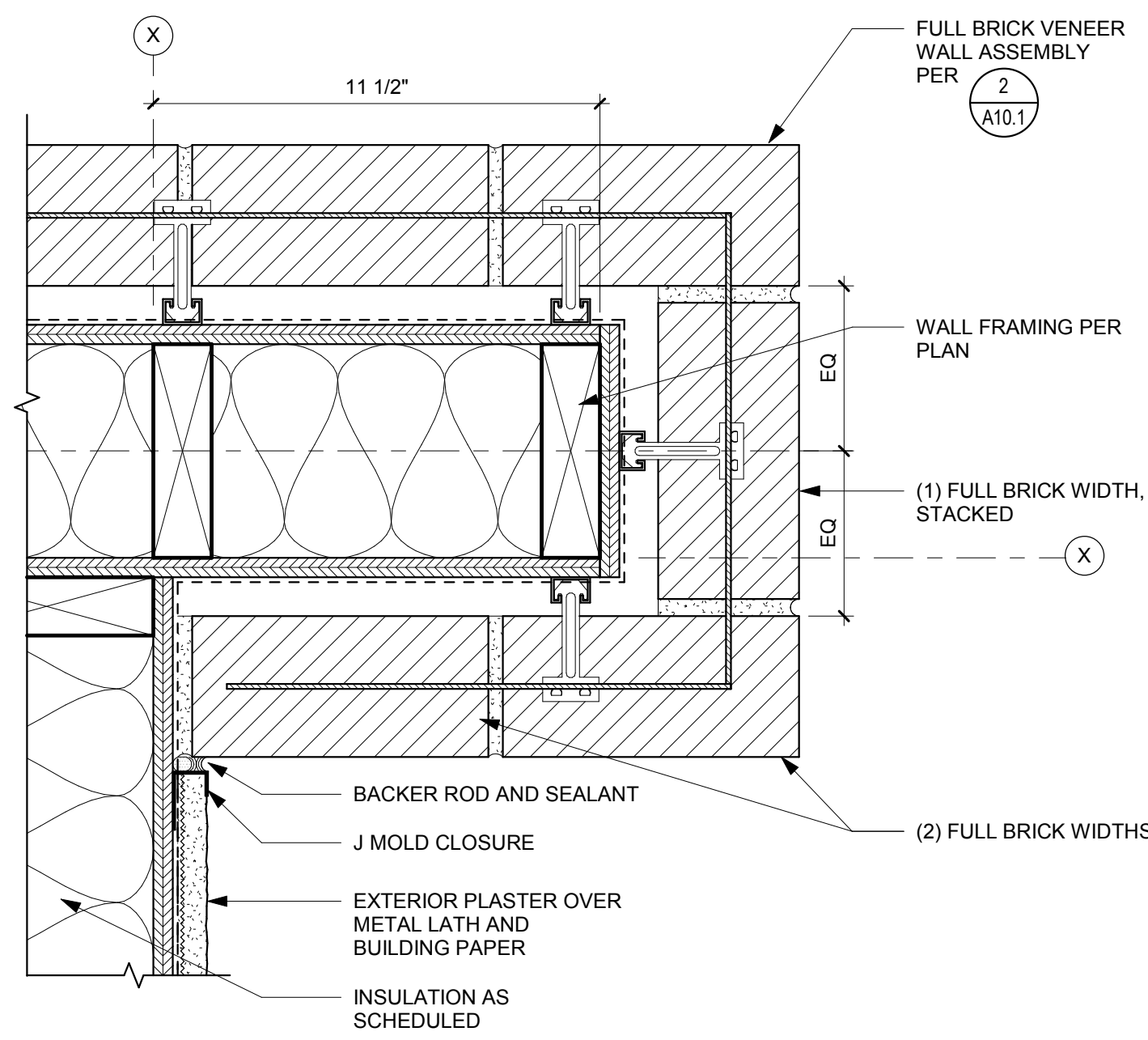
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BRICK LAYOUT AT CORNER

3" = 1'-0"

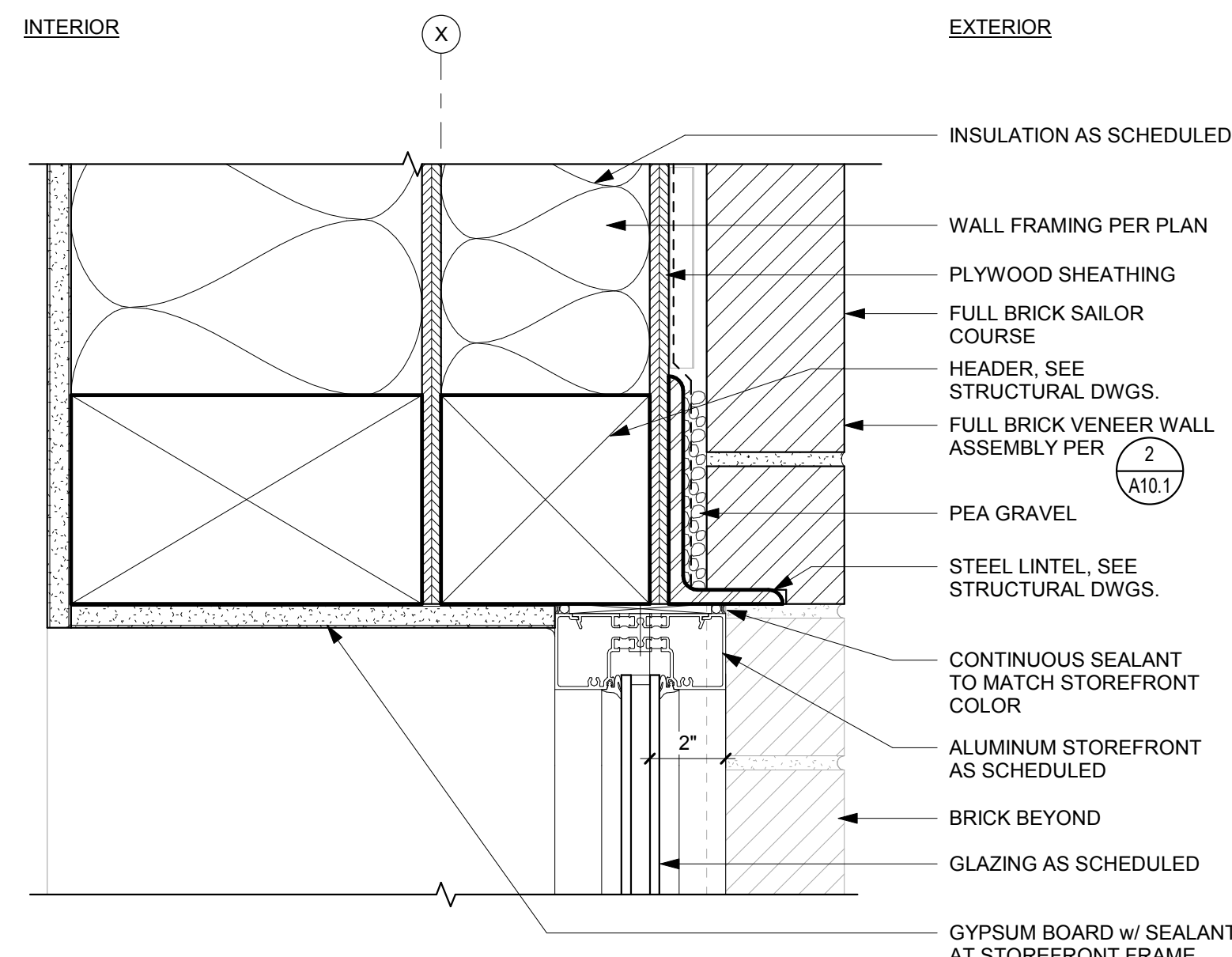
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BRICK LAYOUT AT CORNER

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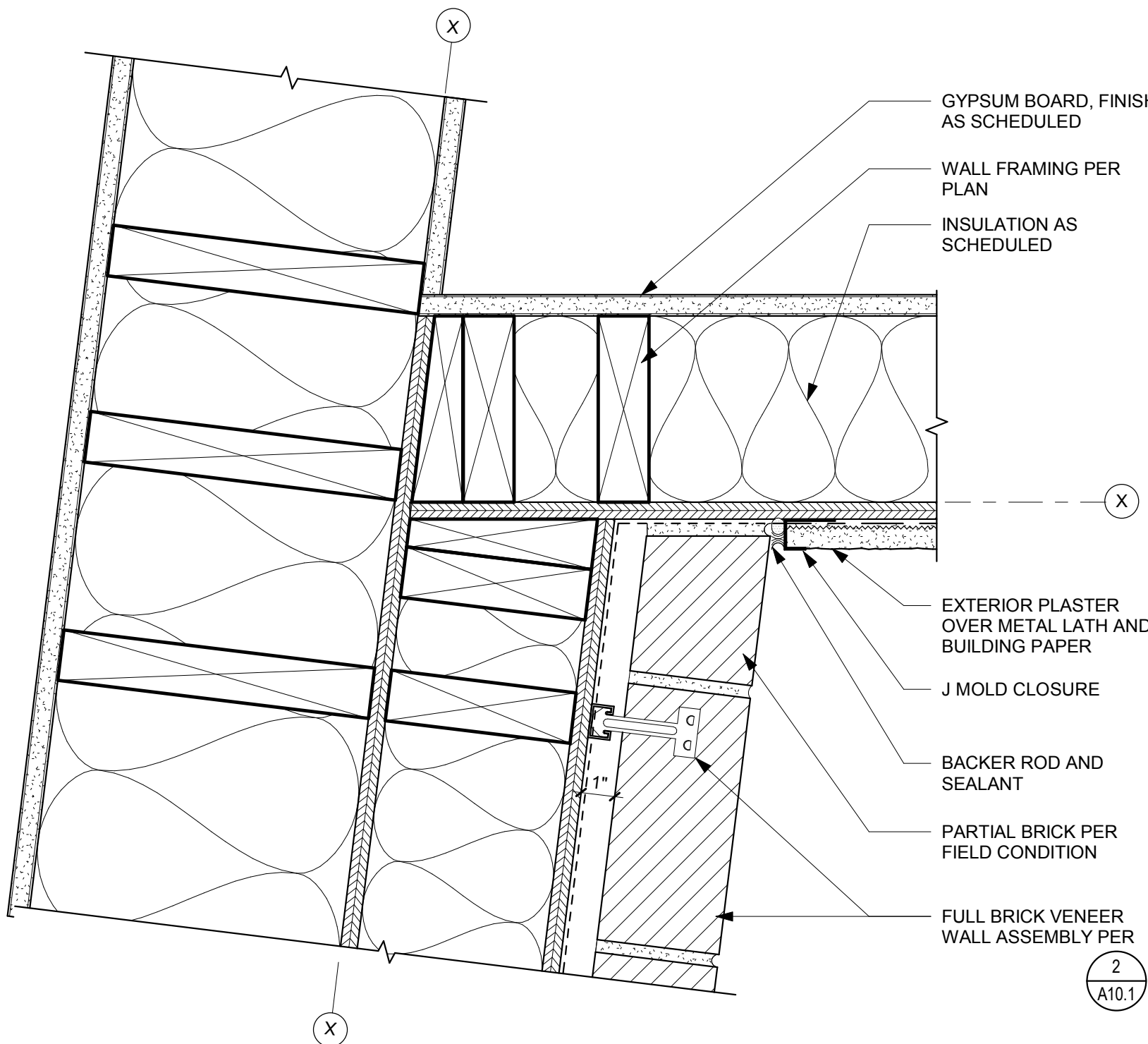
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BRICK AT STOREFRONT HEAD

3" = 1'-0"

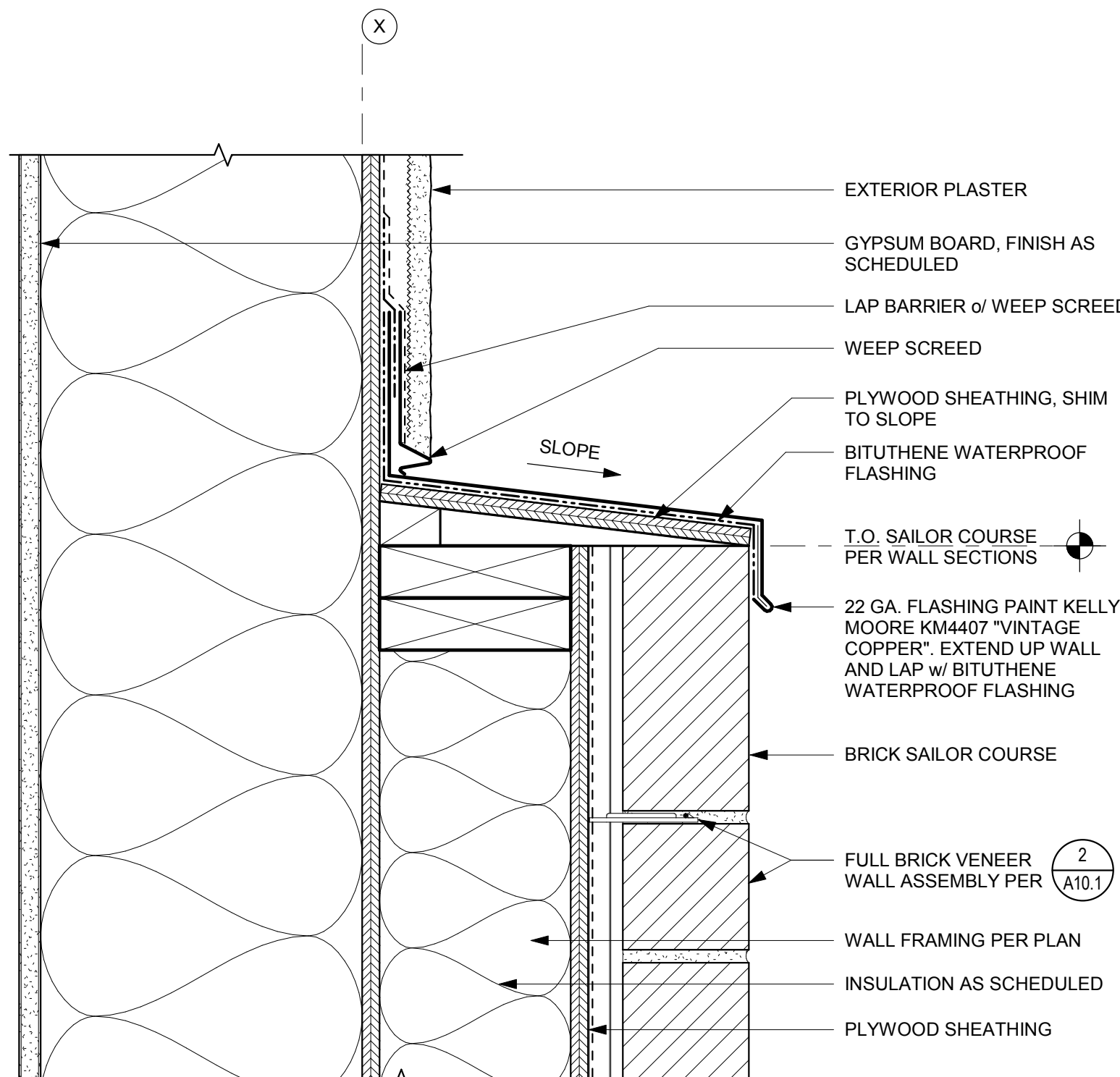
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BRICK AT PLASTER INSIDE CORNER

3" = 1'-0"

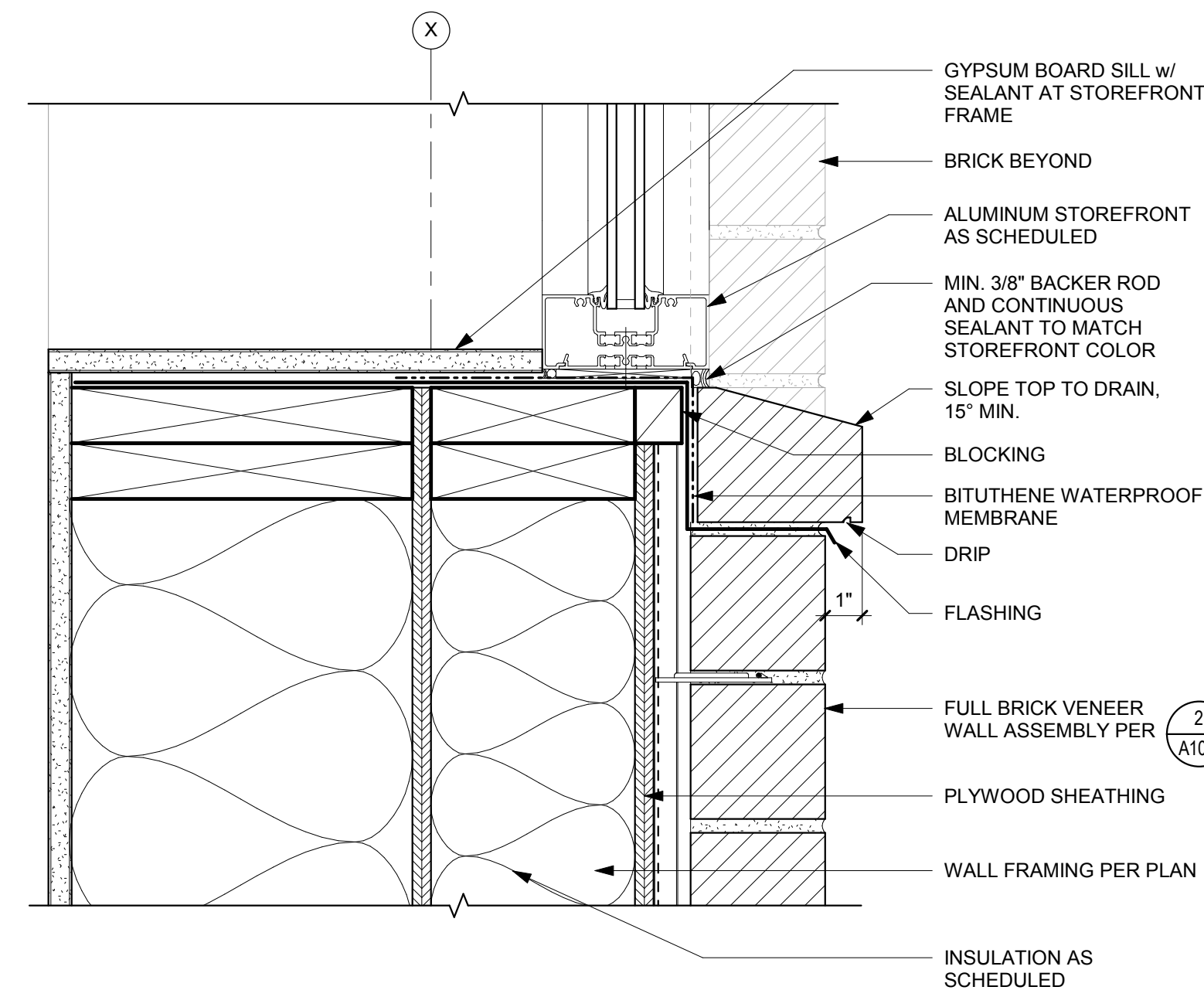
19



BRICK AT SAILOR COURSE

3" = 1'-0"

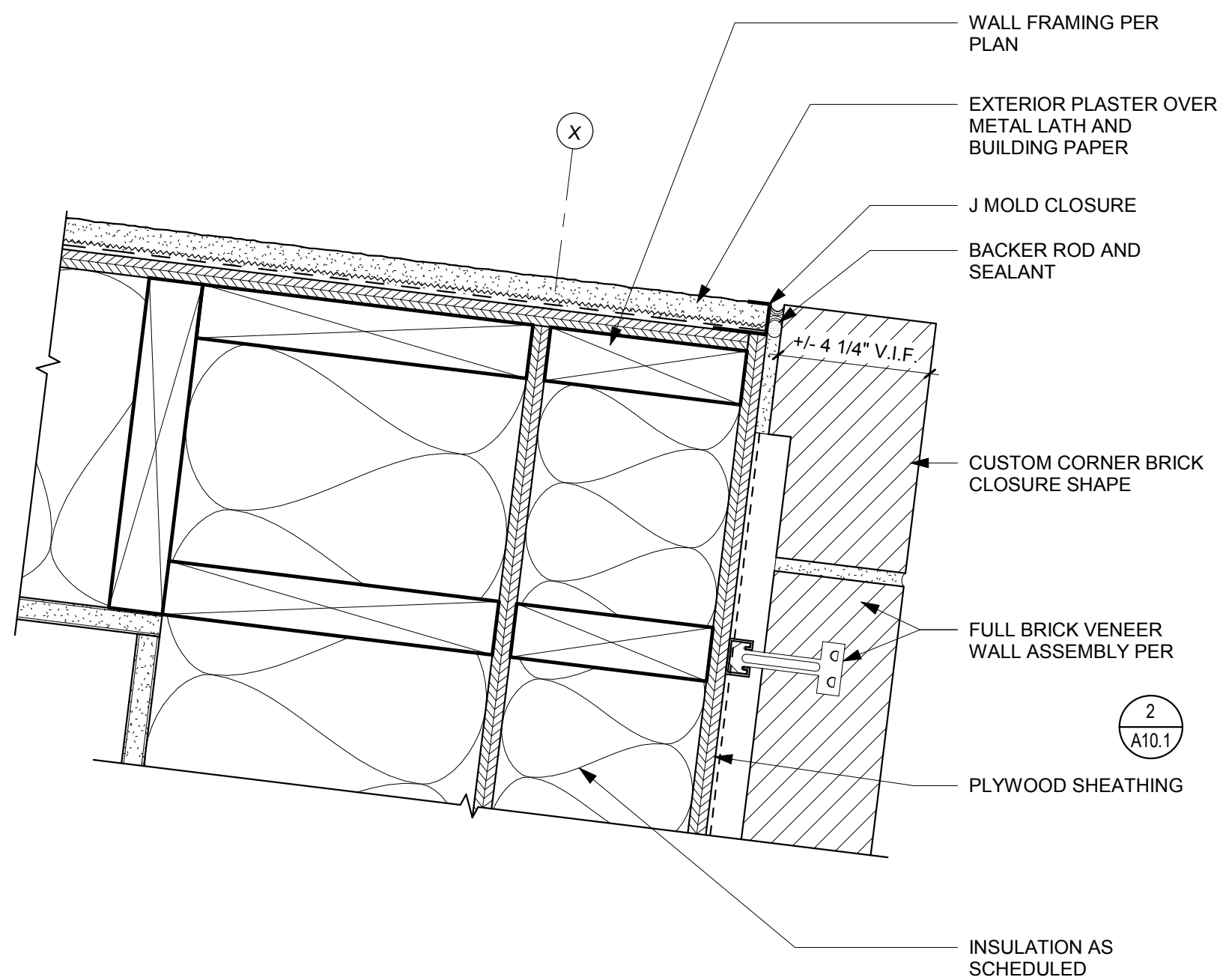
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BRICK LEDGE AT STOREFRONT SILL

3" = 1'-0"

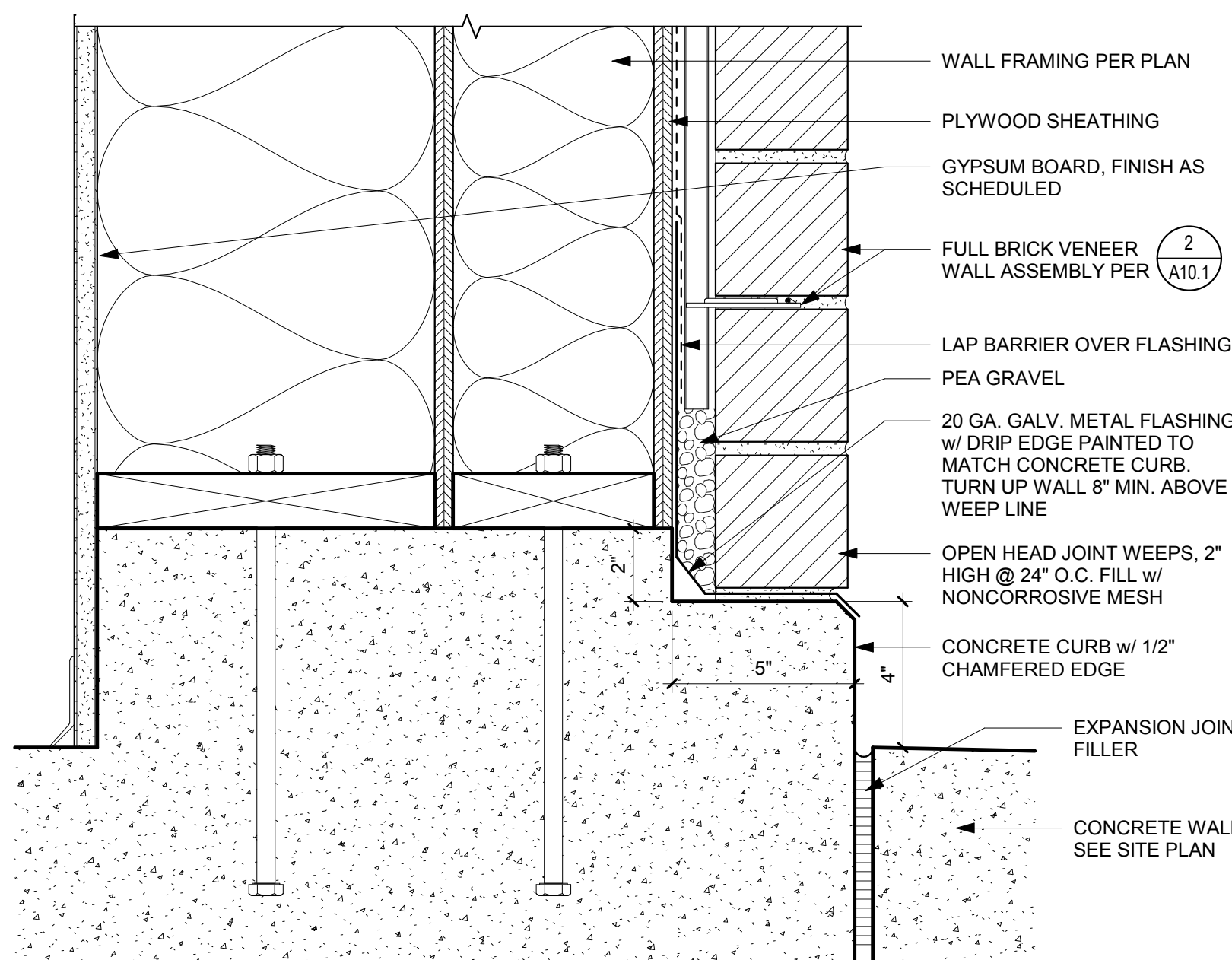
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BRICK AT PLASTER OUTSIDE CORNER

3" = 1'-0"

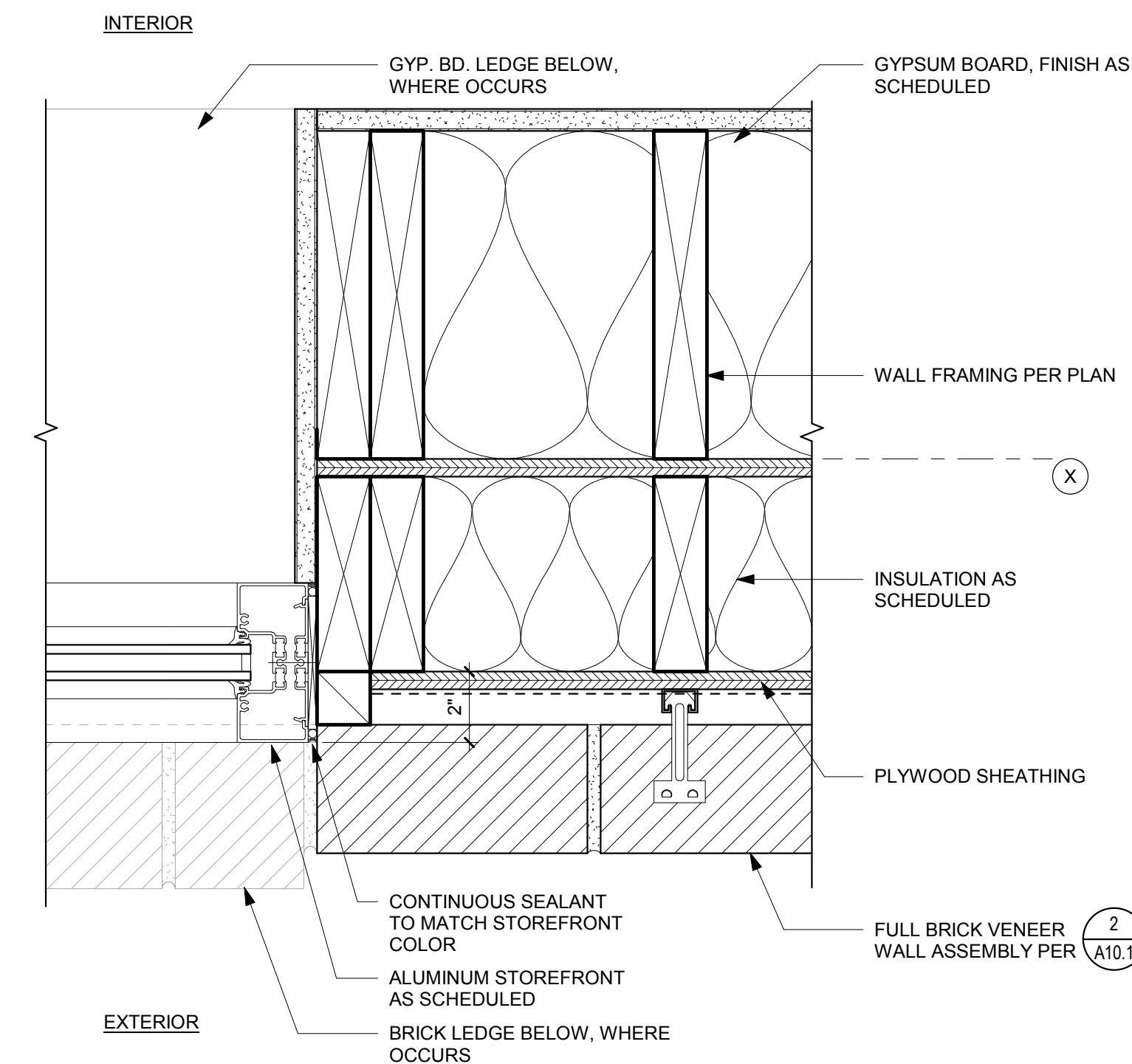
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BRICK AT SILL

3" = 1'-0"

10



BRICK AT STOREFRONT JAMB

3" = 1'-0"

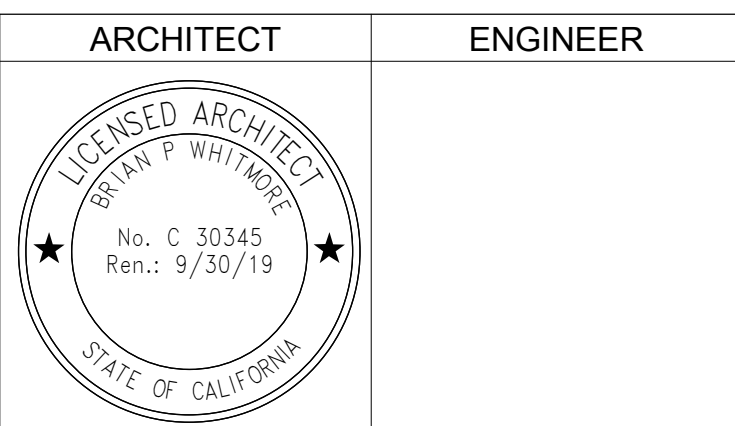
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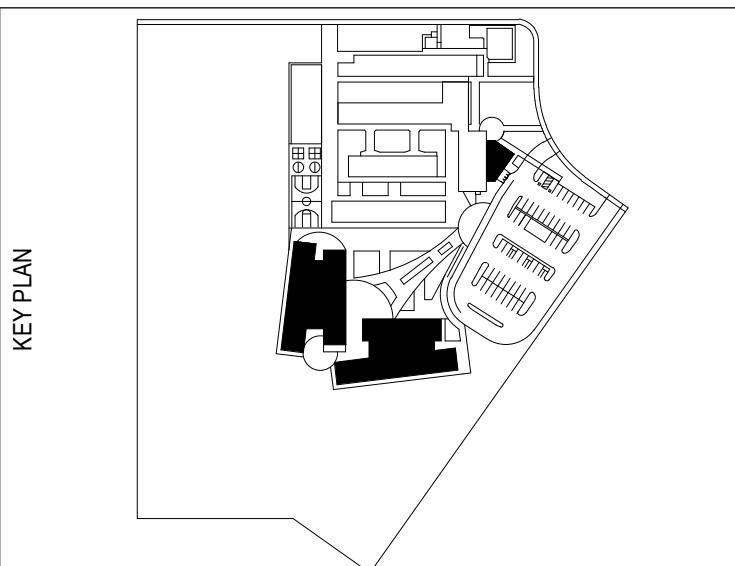
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Date

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Scale

3" = 1'-0"

Drawn

AA/AM

Checked

AM

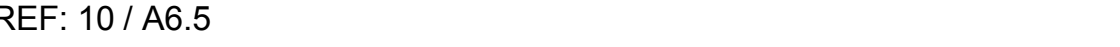
Project Number

19003

Drawing Number

A10.4





## EXTERIOR PLASTER AT PARAPET

$$3'' = 1'-0'' \left( 1 \right)$$

1



**EXTERIOR STUCCO AT BASE**

$$3'' = 1'-0'' \quad \left( 2 \right)$$

2



## EXTERIOR PLASTER REVEAL

 $3'' = 1'-0'' \left( 3 \right)$ 

3



## EXTERIOR PLASTER CONTROL JOINT

3" = 1'-0"	4
------------	---

4



6" = 1'-0"	10
------------	----

0

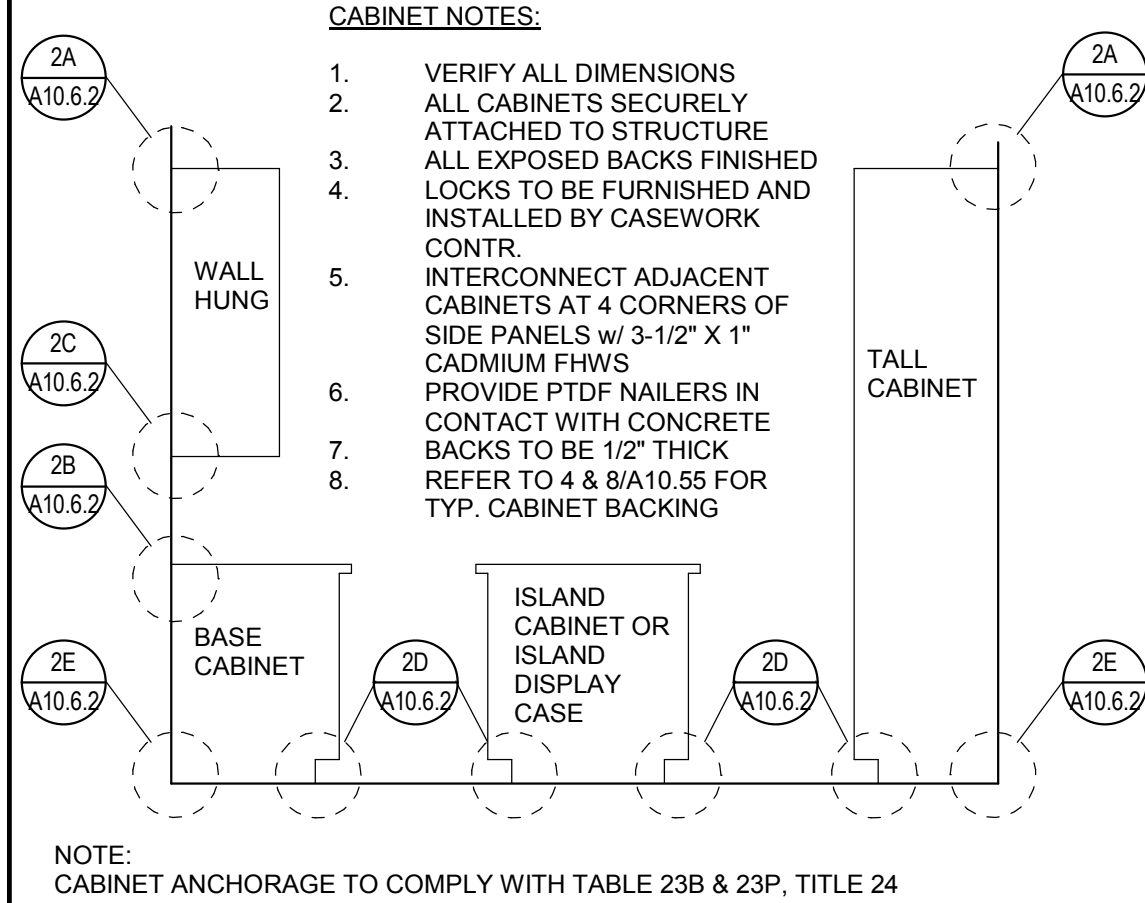
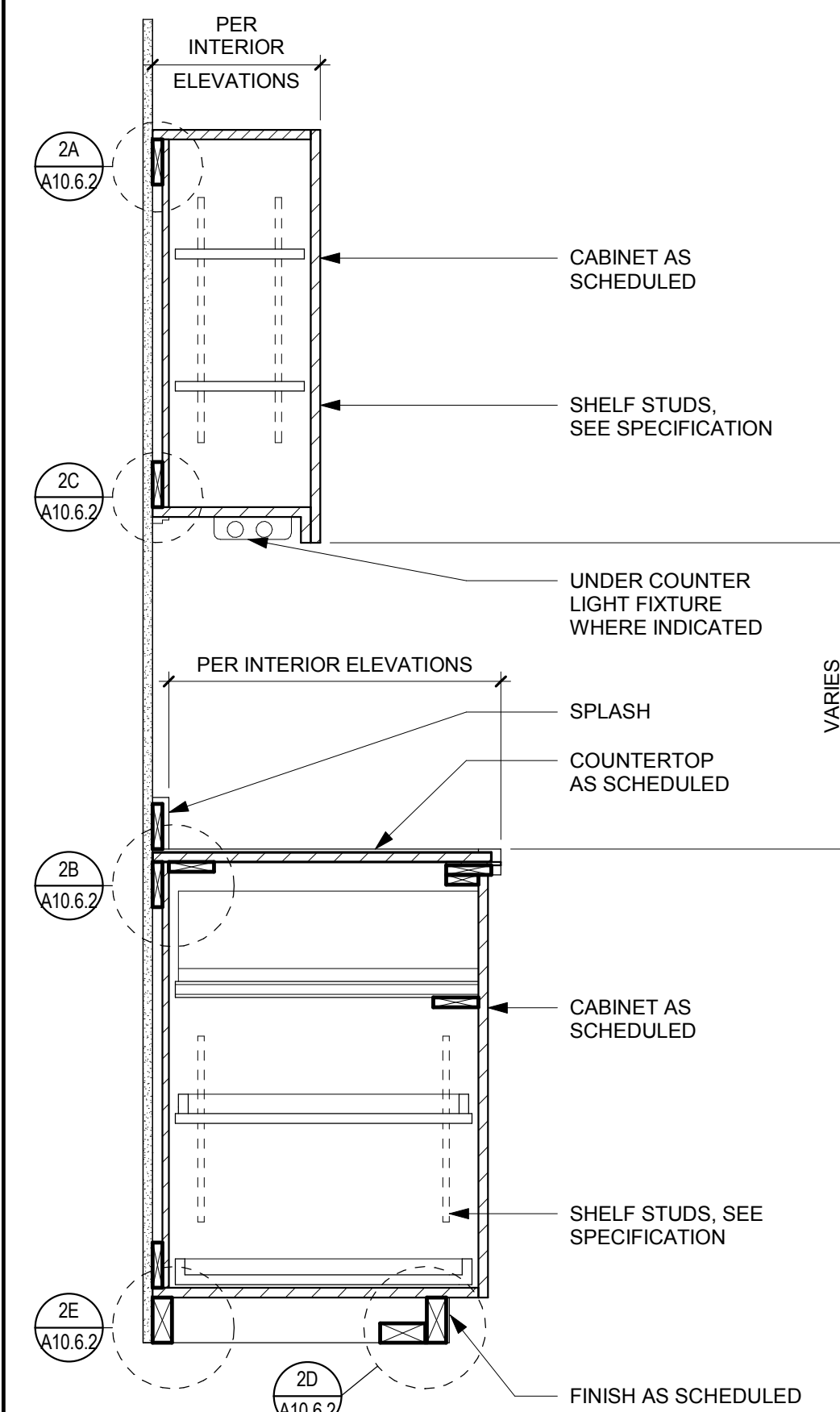
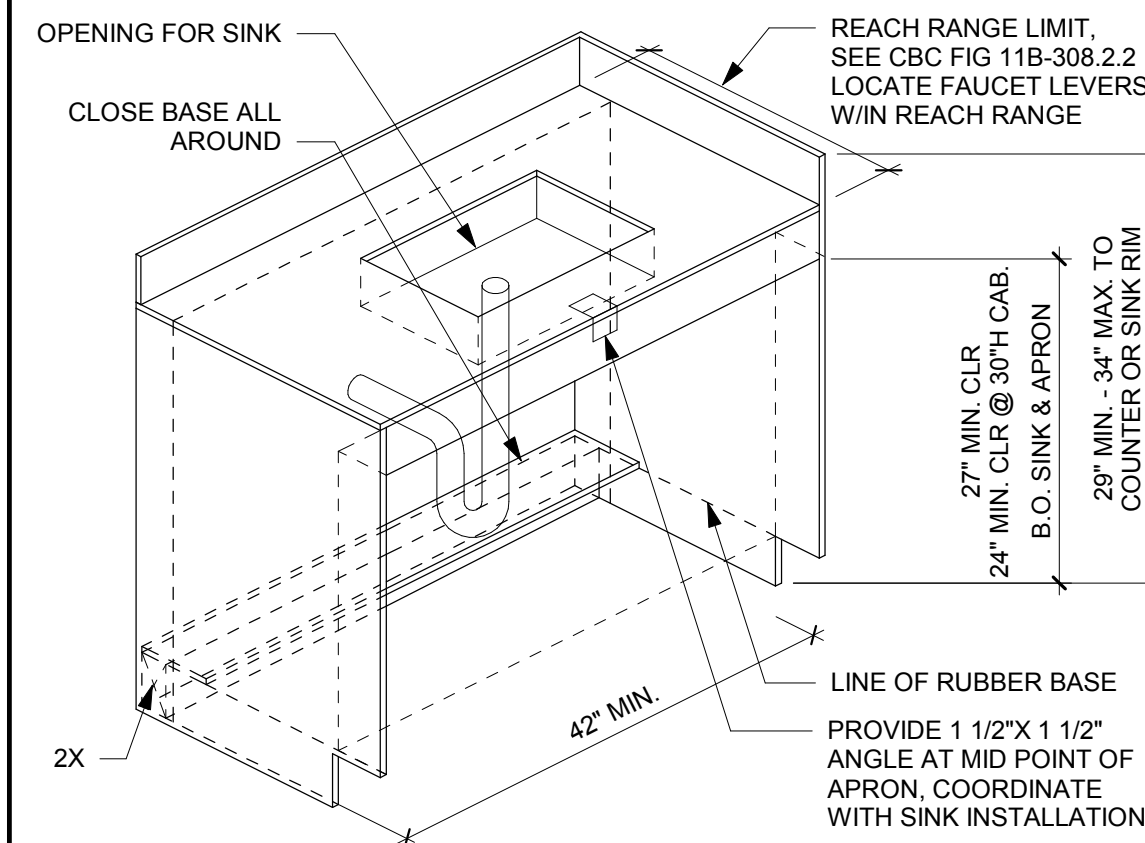


## EXTERIOR PLASTER INSIDE

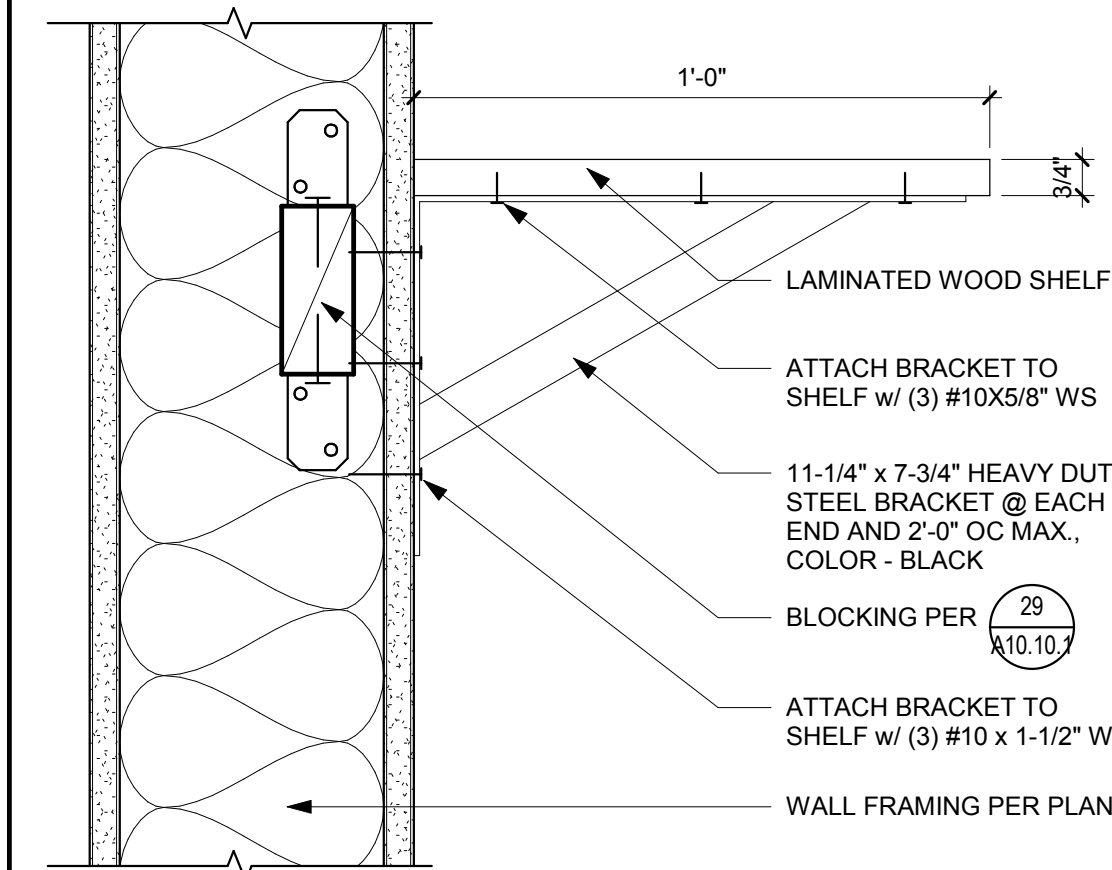
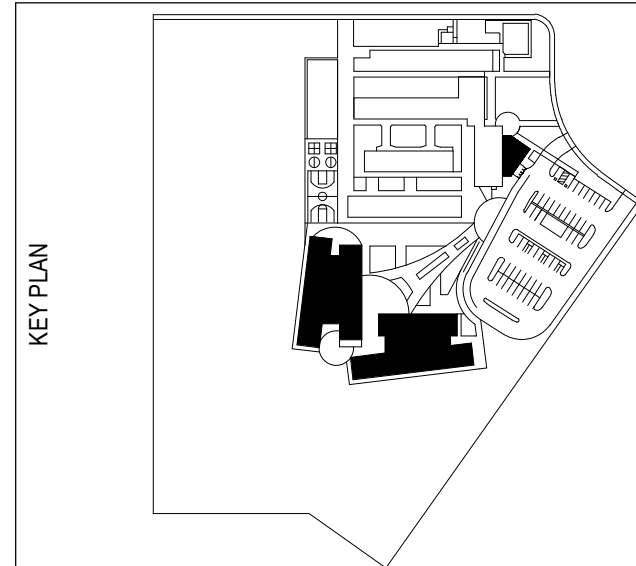
6" = 1'-0"	5
------------	---

5



 $1'' = 1'-0'' \quad (12)$ 
$$1'' = 1'-0'' \quad (7)$$
$$1/2'' = 1'-0'' \left( 2 \right)$$


1" = 1'-0" ( 8

$$3/4" = 1'-0" \quad (3)$$

$$3'' = 1' - 0'' \quad (4)$$


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## CASEWORK DETAILS

Project Number

19003

Drawing Number

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A 10 6

## A10.6.2

709

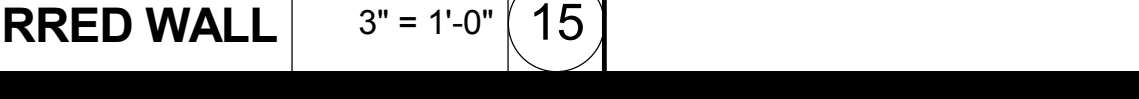
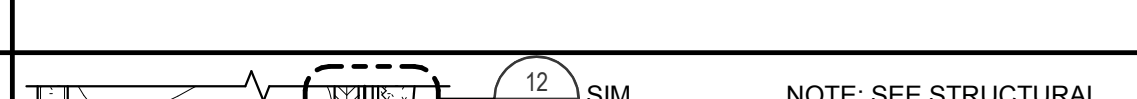
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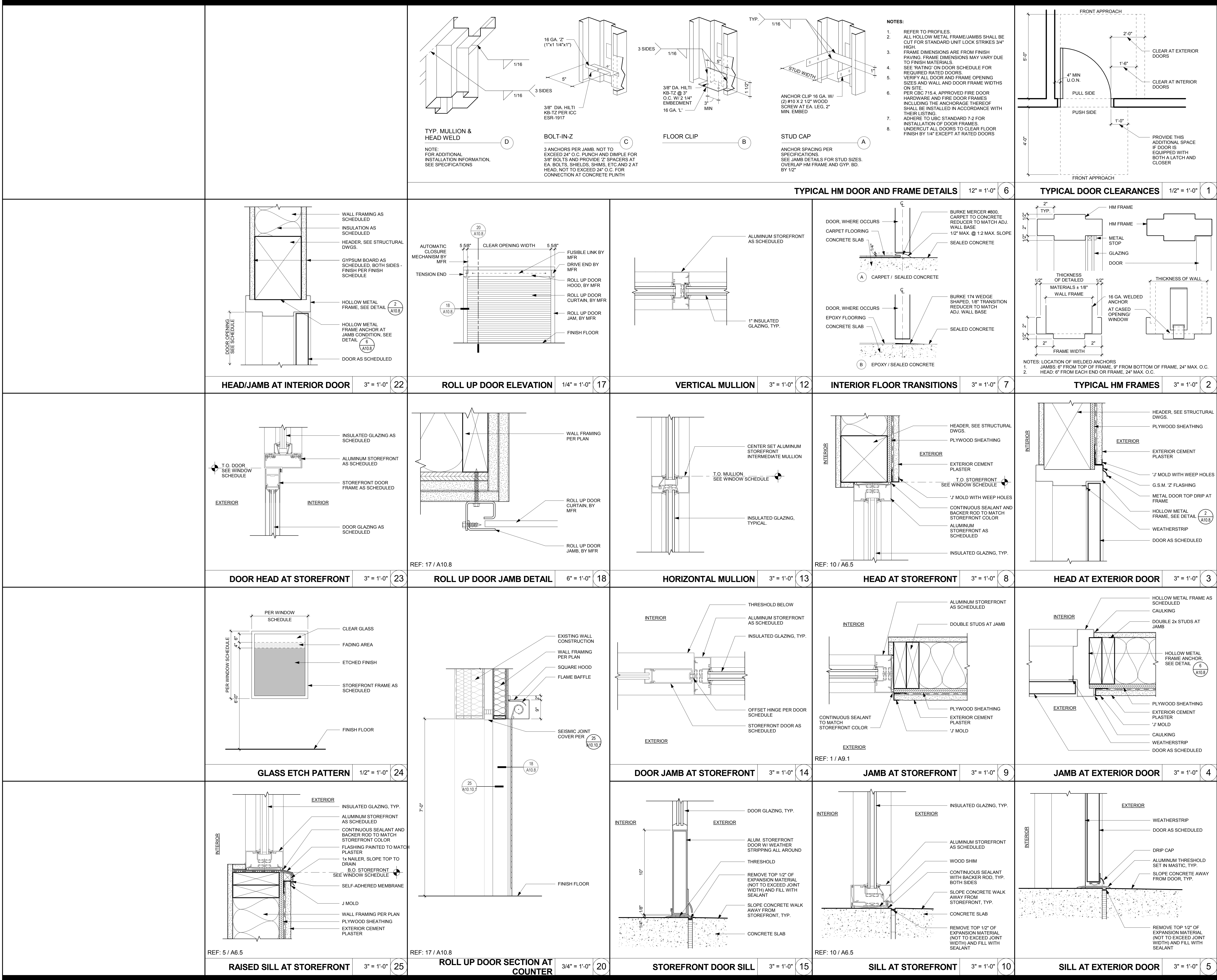
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19003

Drawing Number

A10.7.3

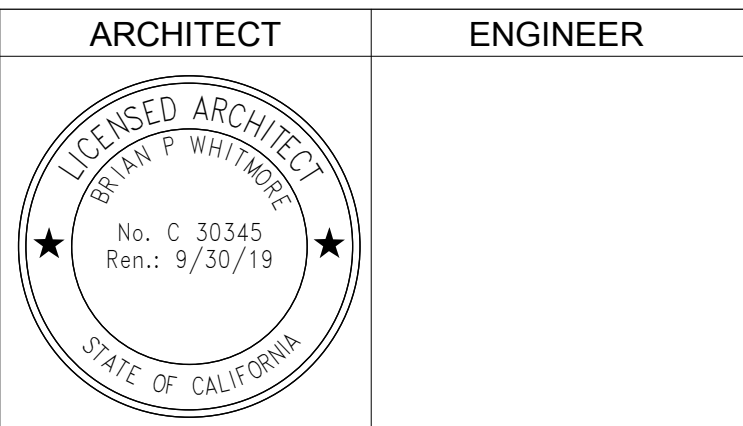


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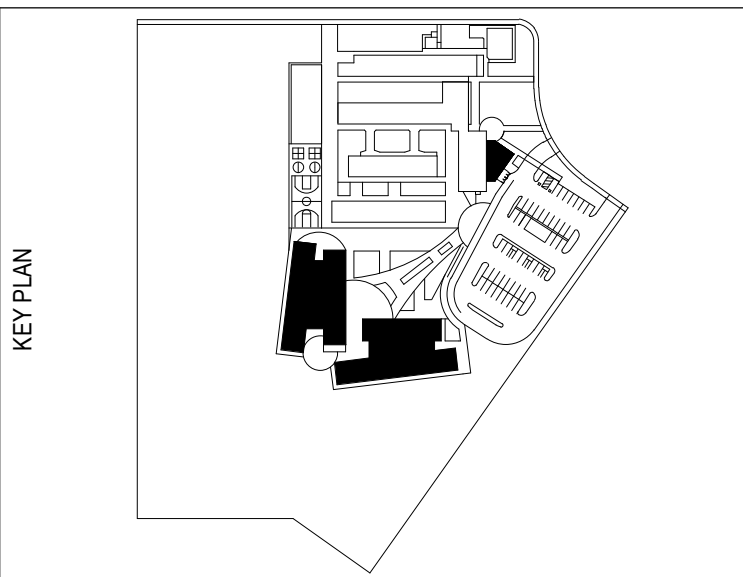
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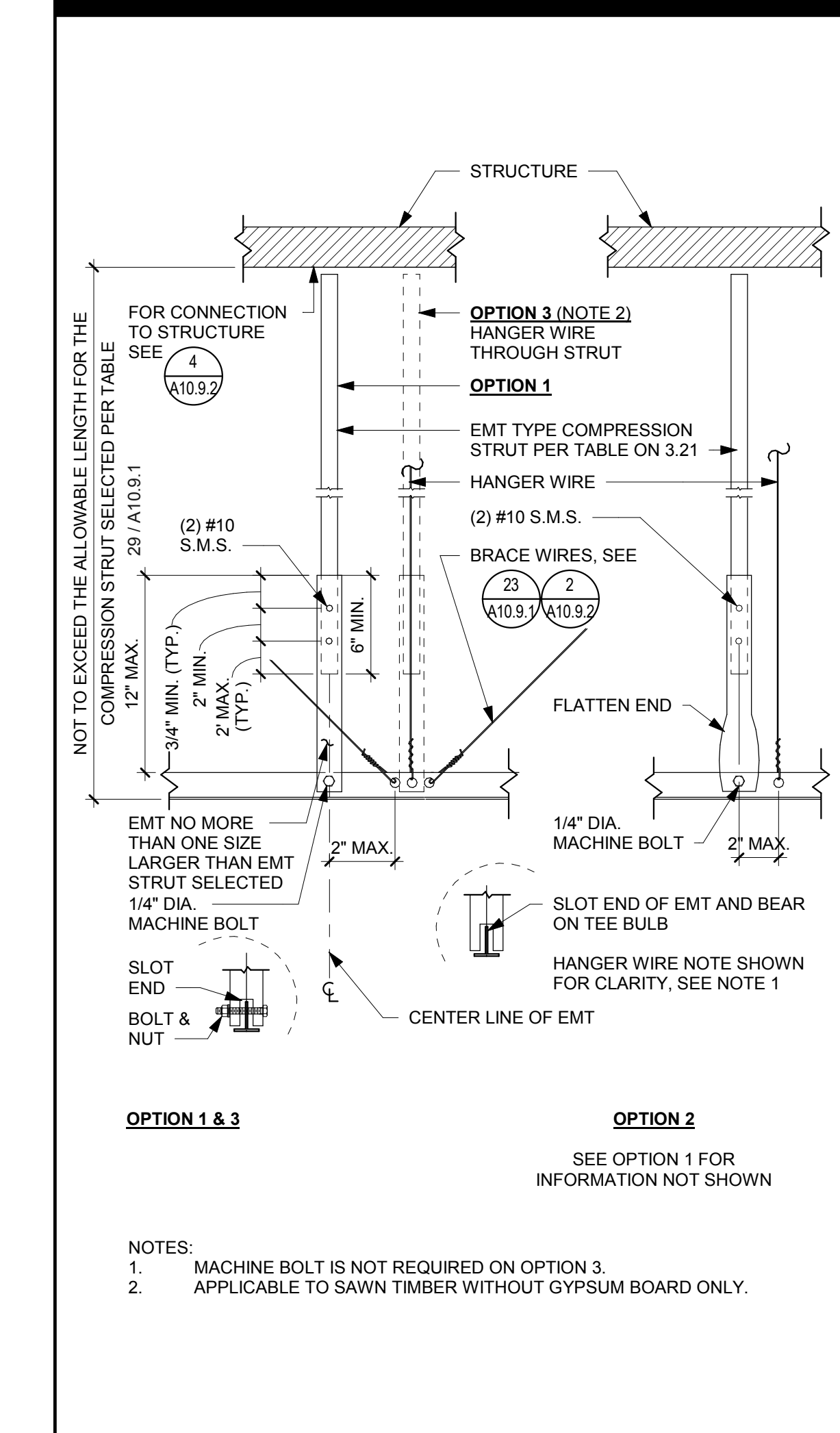
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DOOR AND WINDOW  
DETAILS

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Drawn: AA  
Checked: AM  
Project Number: 19003  
Drawing Number: A10.8





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CHANNEL TYPE STRUT	1 1/2" = 1'-0"	22

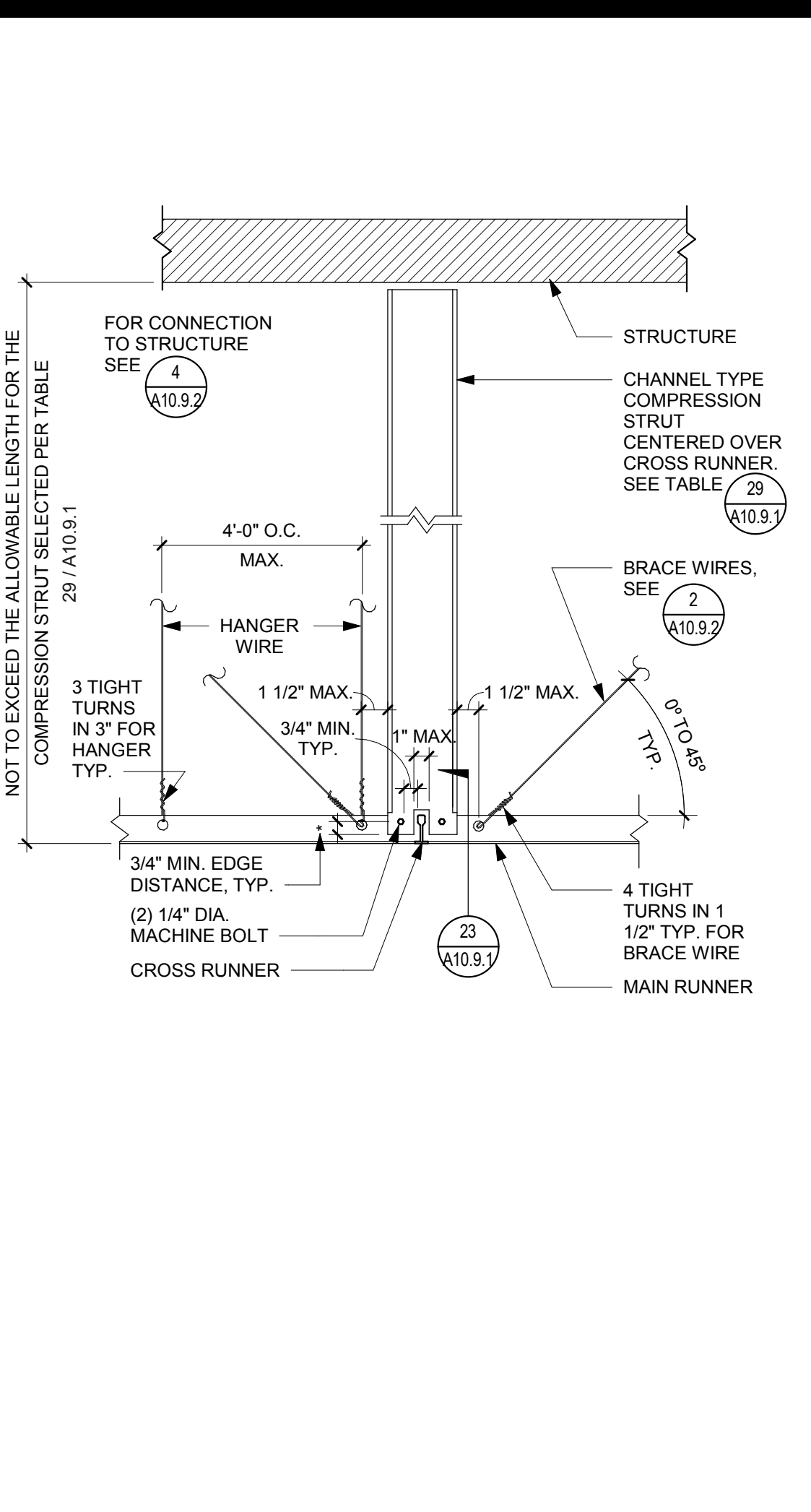
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EMT COMPRESSION STRUT	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	4'-7"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	7'-5"
1" DIAMETER EMT (0.057" WALL THICKNESS)	9'-9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12'-9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14'-9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18'-10"

CHANNEL COMPRESSION STRUT	
MAXIMUM LENGTH	
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250S137-43	8'-10"
400S137-43	10'-10"

COMPRESSION STRUT TABLE	3" = 1'-0"	29
-------------------------	------------	----

CHANNEL TYPE STRUT	
MAXIMUM LENGTH	
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250S137-43	8'-10"
400S137-43	10'-10"

COMPRESSION STRUT TABLE	3" = 1'-0"	29
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CHANNEL TYPE STRUT	1 1/2" = 1'-0"	22
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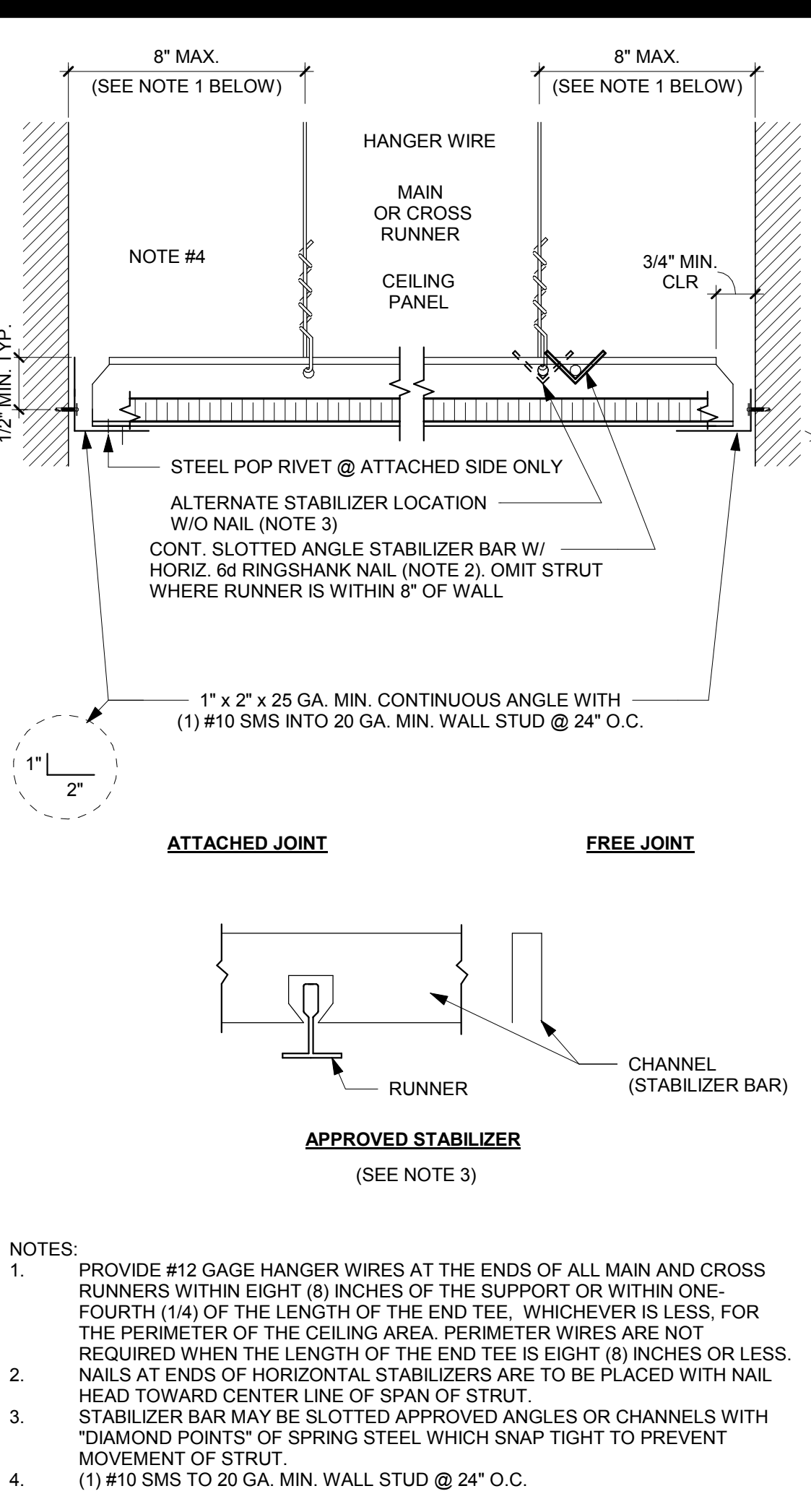
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362S137-33	8'-0"
250S137-43	8'-10"
400S137-43	10'-10"

CHANNEL TYPE STRUT	3" = 1'-0"	23
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CHANNEL TYPE STRUT	3" = 1'-0"	23
--------------------	------------	----

CHANNEL TYPE STRUT	3" = 1'-0"	23
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CHANNEL TYPE STRUT	3" = 1'-0"	23
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CEILING PERIMETER	3" = 1'-0"	17
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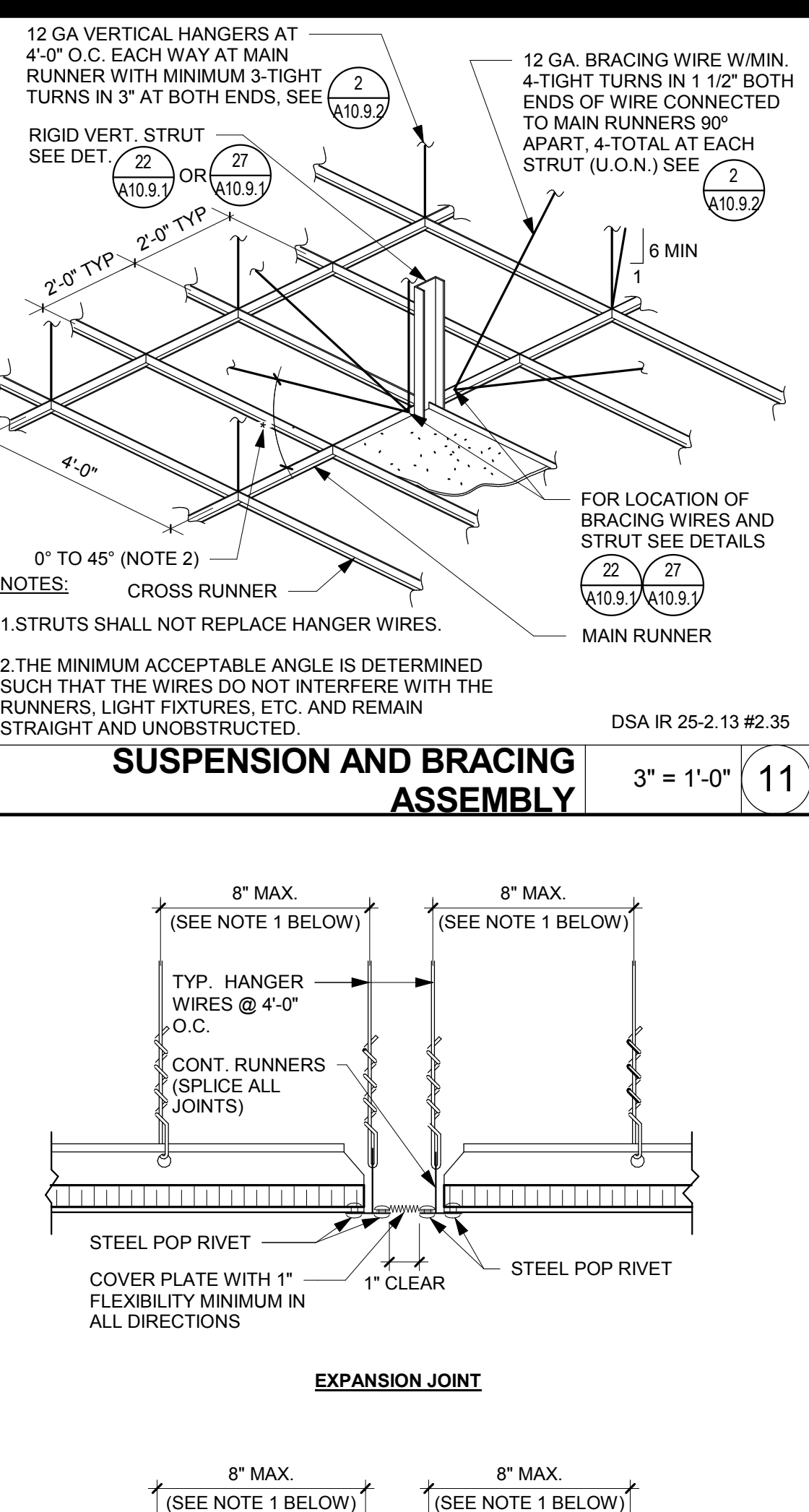
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CEILING PERIMETER	3" = 1'-0"	17
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CEILING PERIMETER	3" = 1'-0"	17
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CEILING PERIMETER	3" = 1'-0"	17
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CEILING PERIMETER	3" = 1'-0"	17
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EXPANSION JOINT	3" = 1'-0"	13
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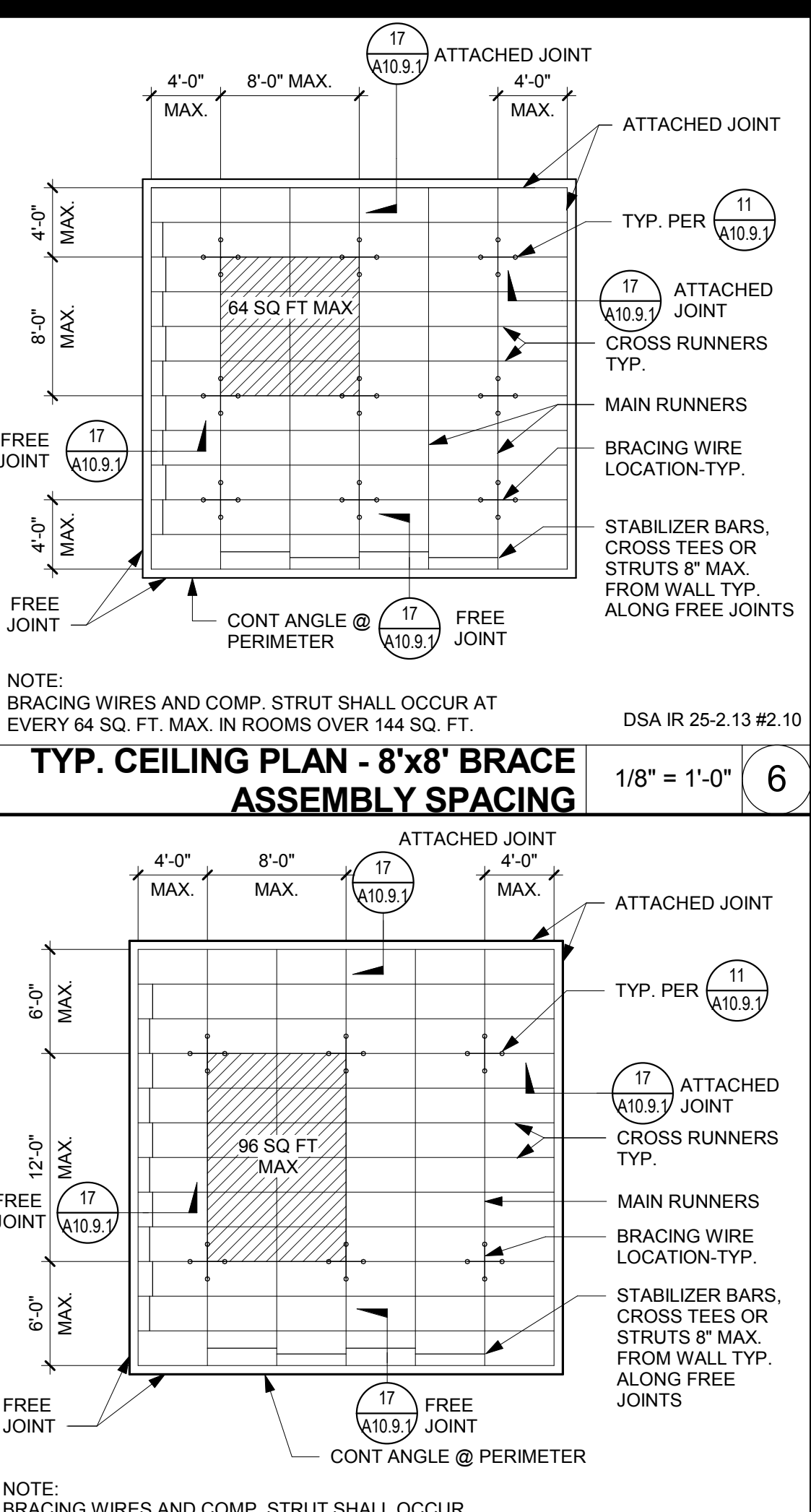
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EXPANSION JOINT	3" = 1'-0"	13
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EXPANSION JOINT	3" = 1'-0"	13
-----------------	------------	----

EXPANSION JOINT	3" = 1'-0"	13
-----------------	------------	----

EXPANSION JOINT	3" = 1'-0"	13
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TYP. CEILING PLAN - 8'x8' BRACE ASSEMBLY SPACING	1/8" = 1'-0"	6
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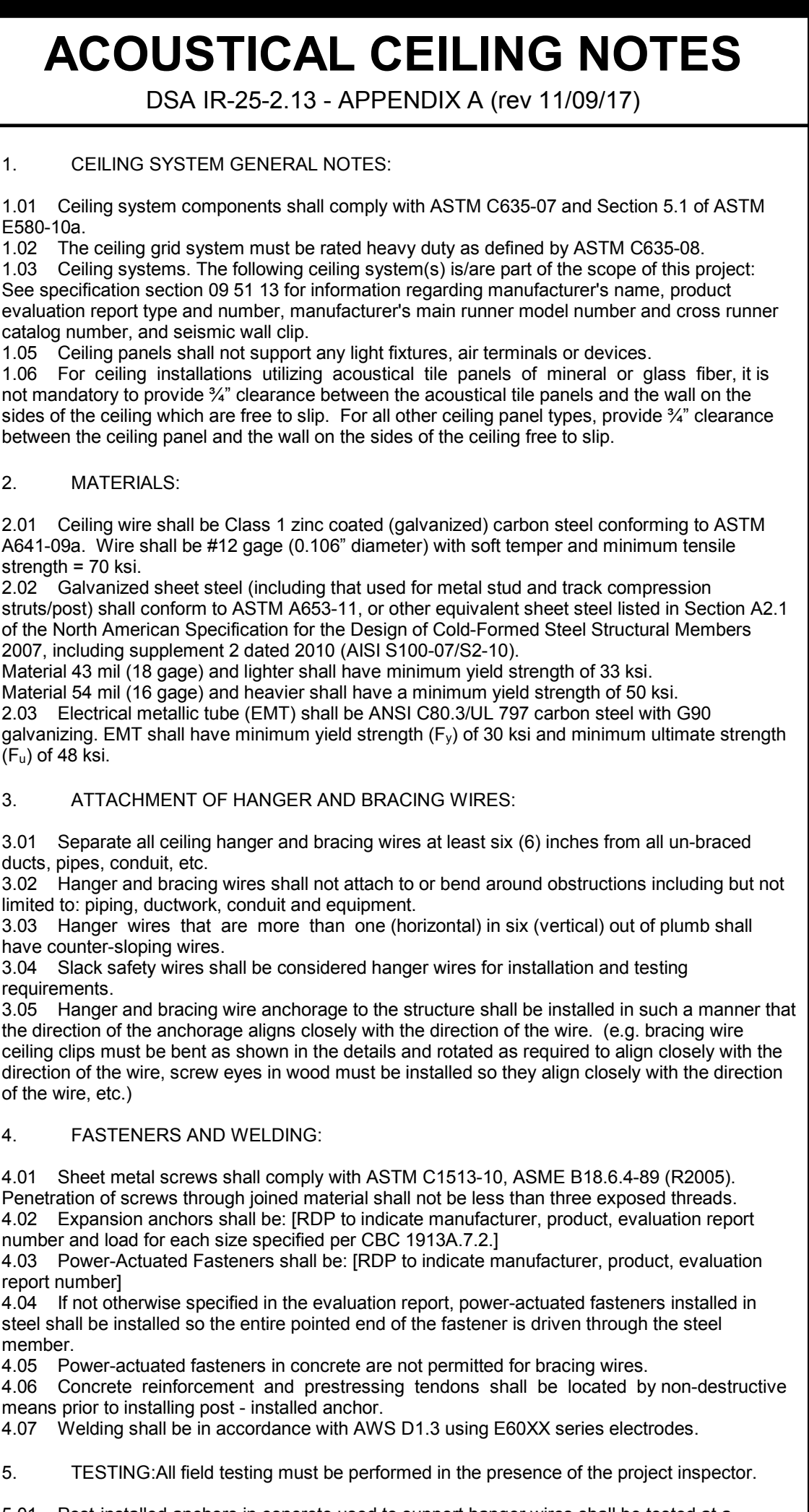
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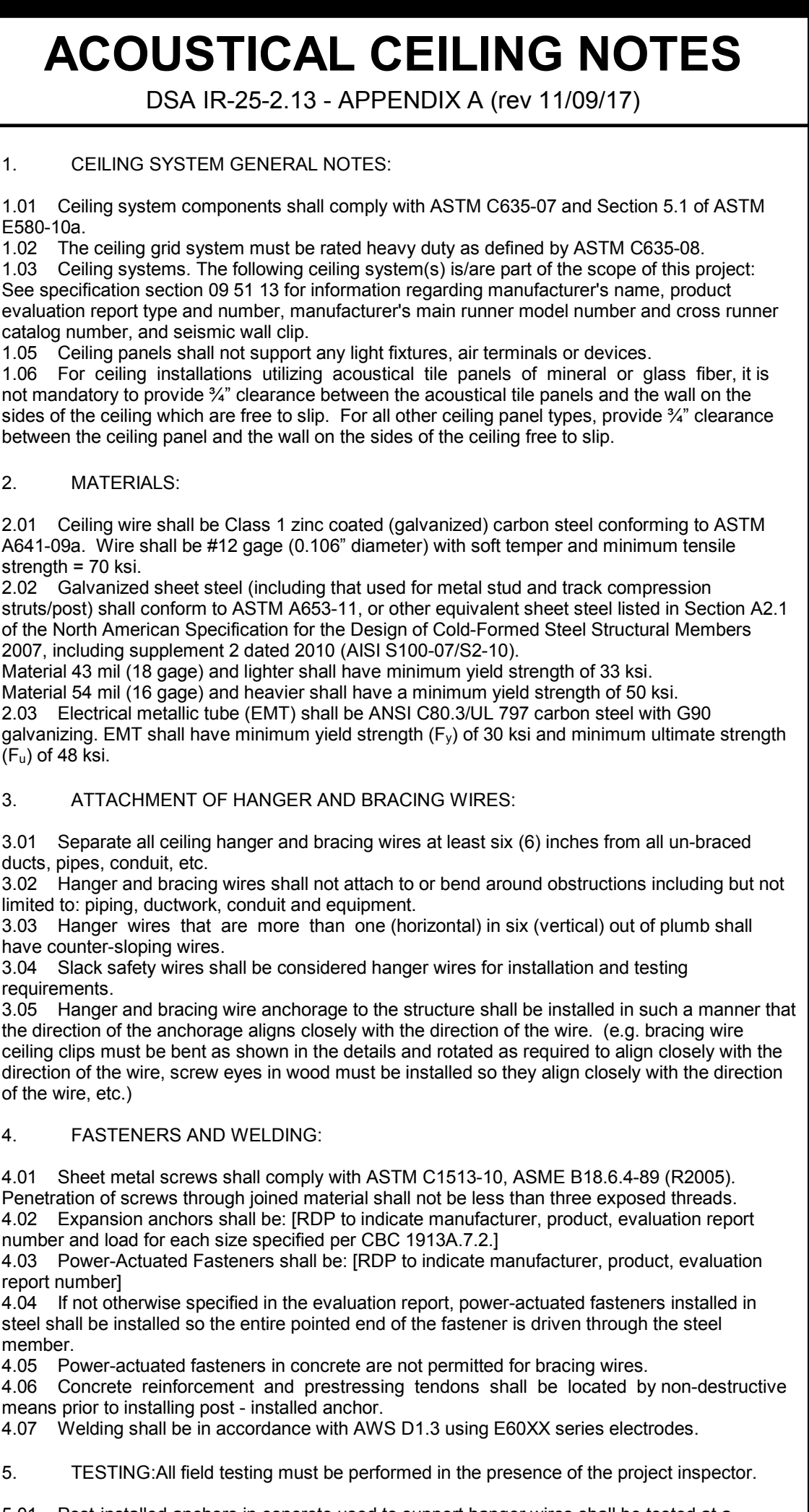
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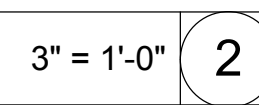
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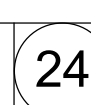
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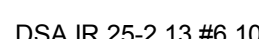
<b><u>STRUCTURAL CONDITION OF FLOOR/ROOF ABOVE SUSPENDED CEILING</u></b>	<b><u>APPLICABLE HANGER WIRE DETAIL</u></b>	<b><u>APPLICABLE BRACING WIRE DETAIL</u></b>
SAWN TIMBER	4.25 & 4.29 7 / A10.9.2 & 13 / A10.9.2	4.35 12 / A10.9.2
STRUCTURAL STEEL	4.23 8 / A10.9.2	4.33 9 / A10.9.2




HANGER AND BRACING WIRE CONNECTION MATRIX	NTS	3
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TYPICAL SADDLE TIE DETAIL NTS 13

COMPRESSION STRUT CONNECTION TO STRUCTURE	NTS	4
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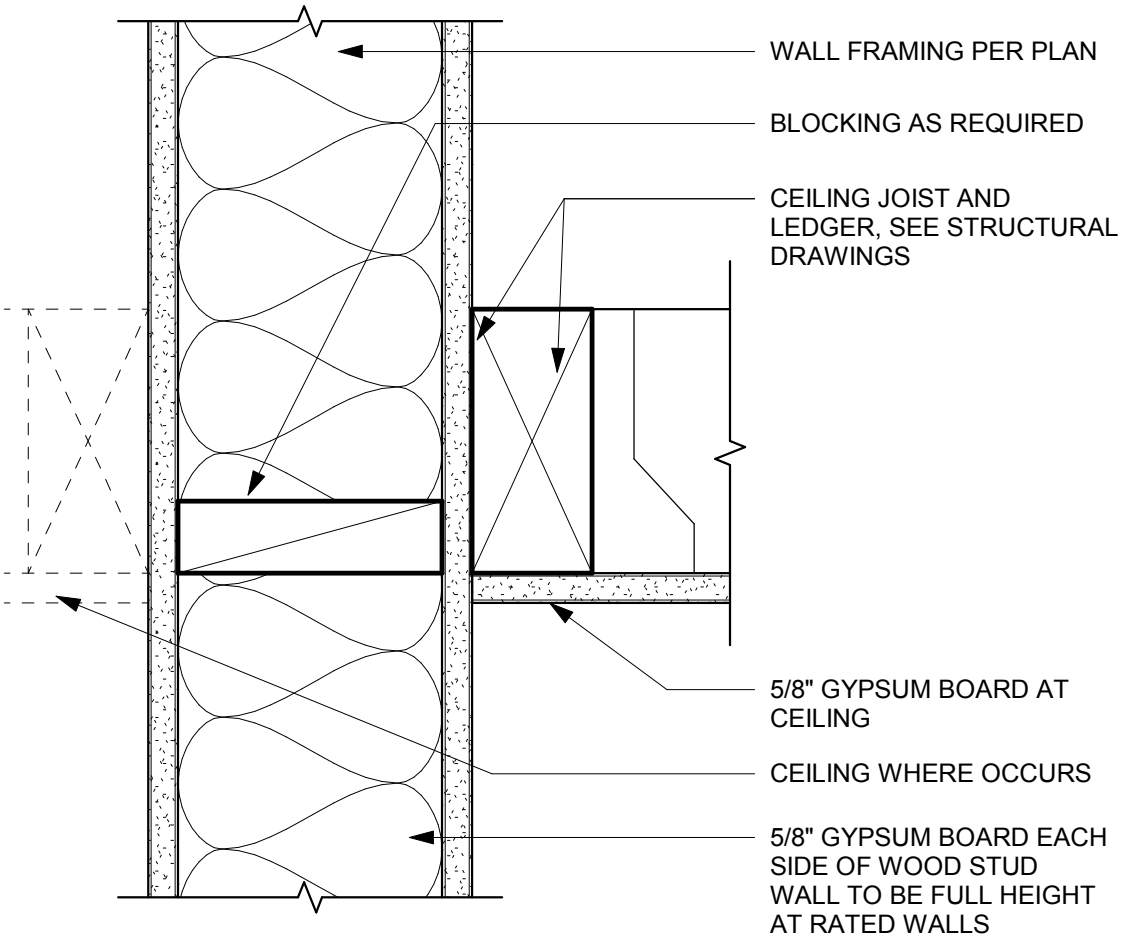


ARCHITECT	ENGINEER
	

- [illegible]

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

Date	Project Number	
05/20/2019	19003	
Scale	Drawing Number	
As indicated	A10.9.3	
Drawn	Checked	
AA/SM	AM	



CONDITION AT ACP CEILING

- TYPICAL LIGHT FIXTURE
- TYPICAL SPRINKLER HEAD
- TYPICAL ELECTRICAL DEVICE
- TYPICAL SPEAKER
- TYPICAL MECHANICAL DIFFUSER

DOUBLE 2X CEILING JOIST FRAMING

2X FRAMING TO STRUCTURE ABOVE,  
SEE STRUCTURAL DRAWINGS

ATTACH TO WOOD STUD FRAME  
WITH (3) #10 WOOD SCREWS, 3"  
LONG AT EACH FRAME TAB, TYP.

HINGE

KEYLOCK AND PULL

GYP. BD. FINISH, PAINT TO MATCH  
CEILING

STEEL FRAME FOR NON-RATED  
ACCESS DOOR

"J" MOLDING TYP.

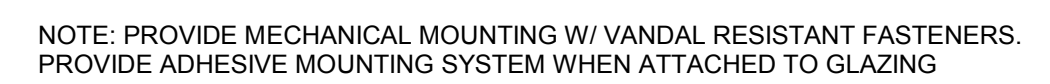
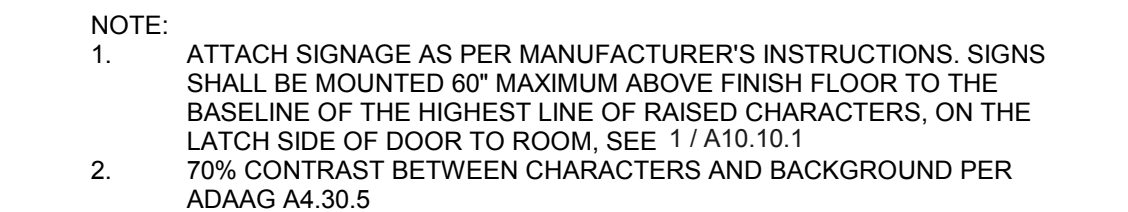
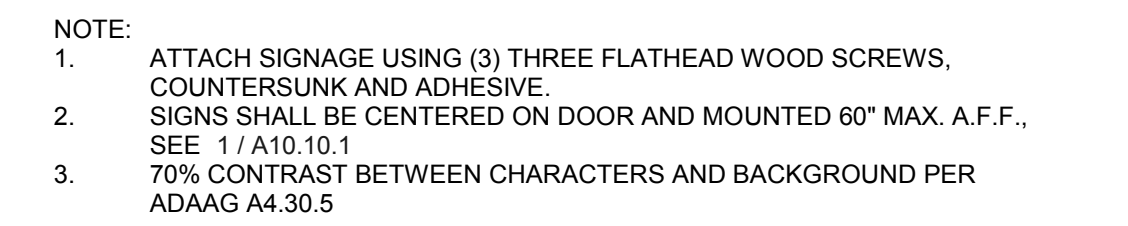
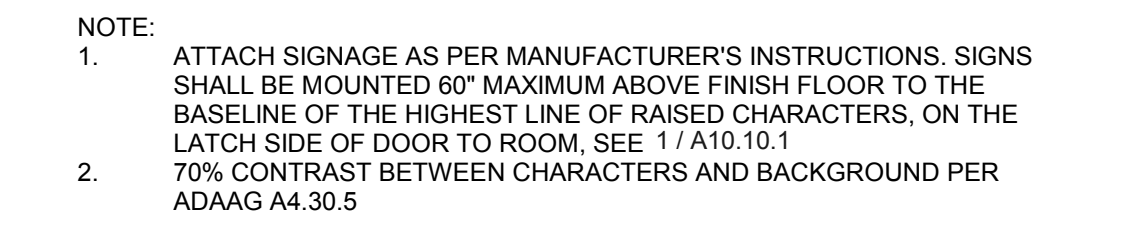
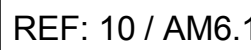
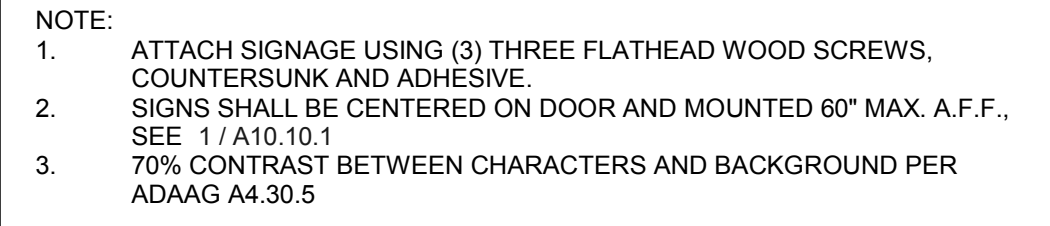
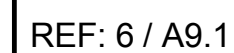
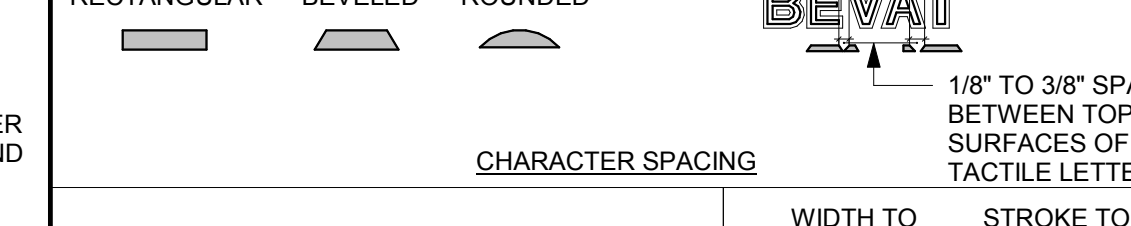


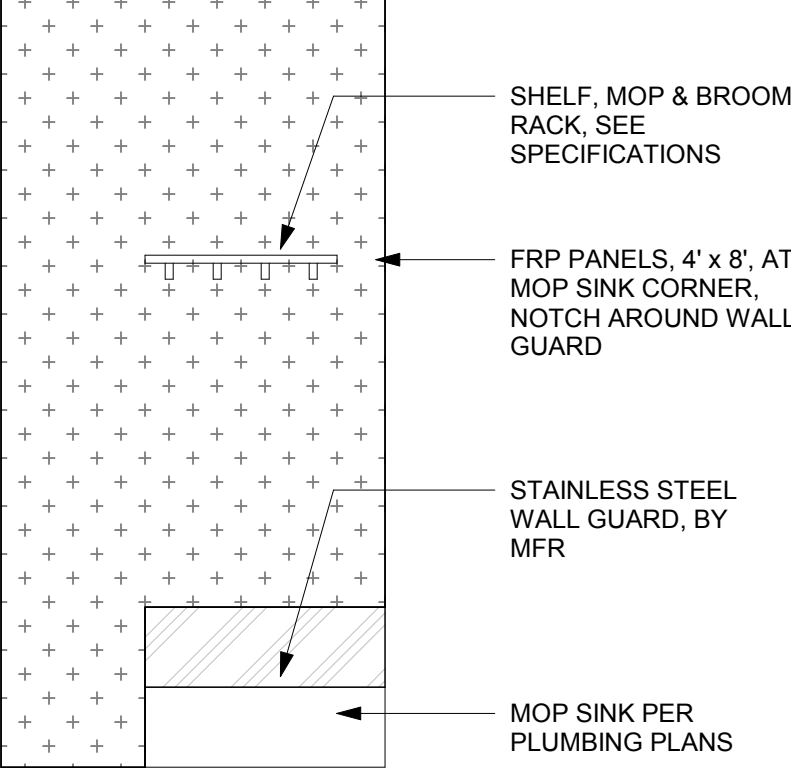
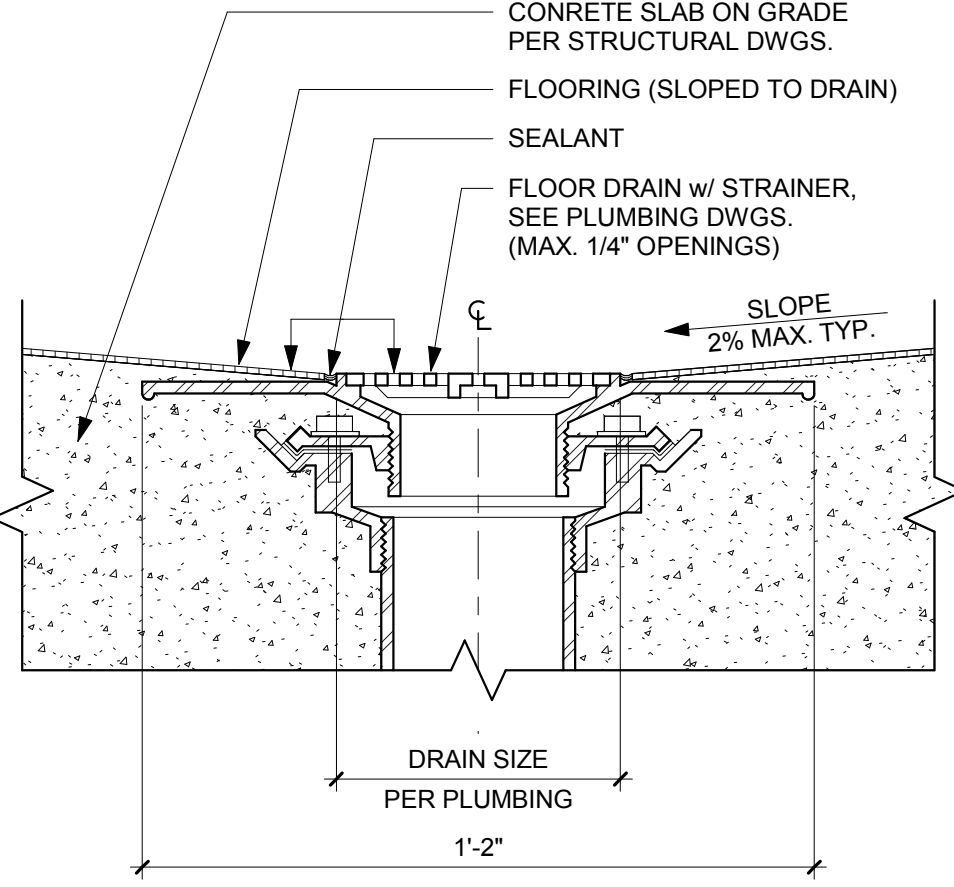
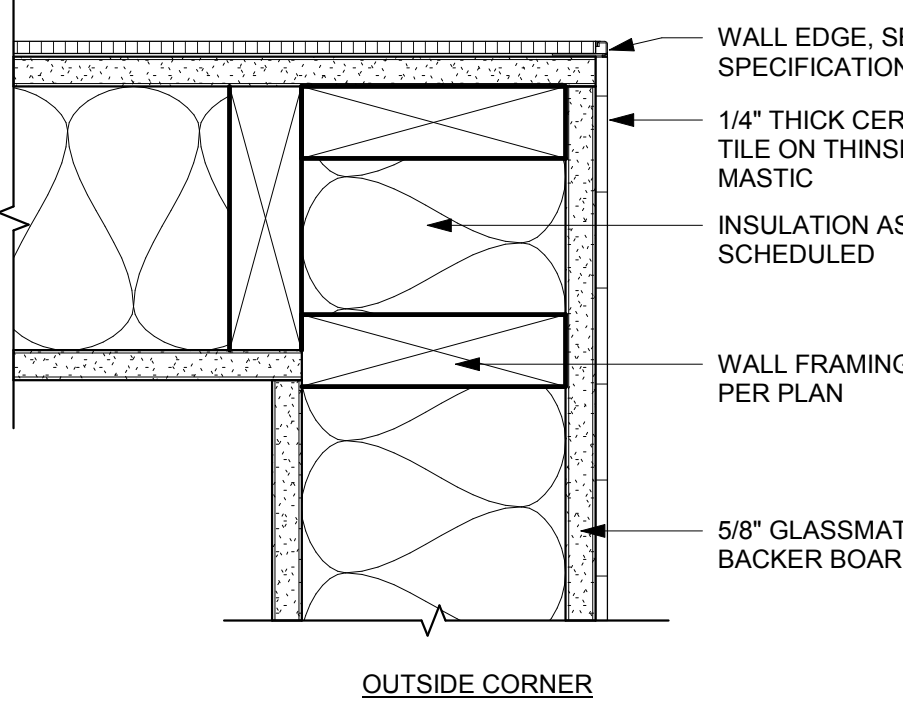
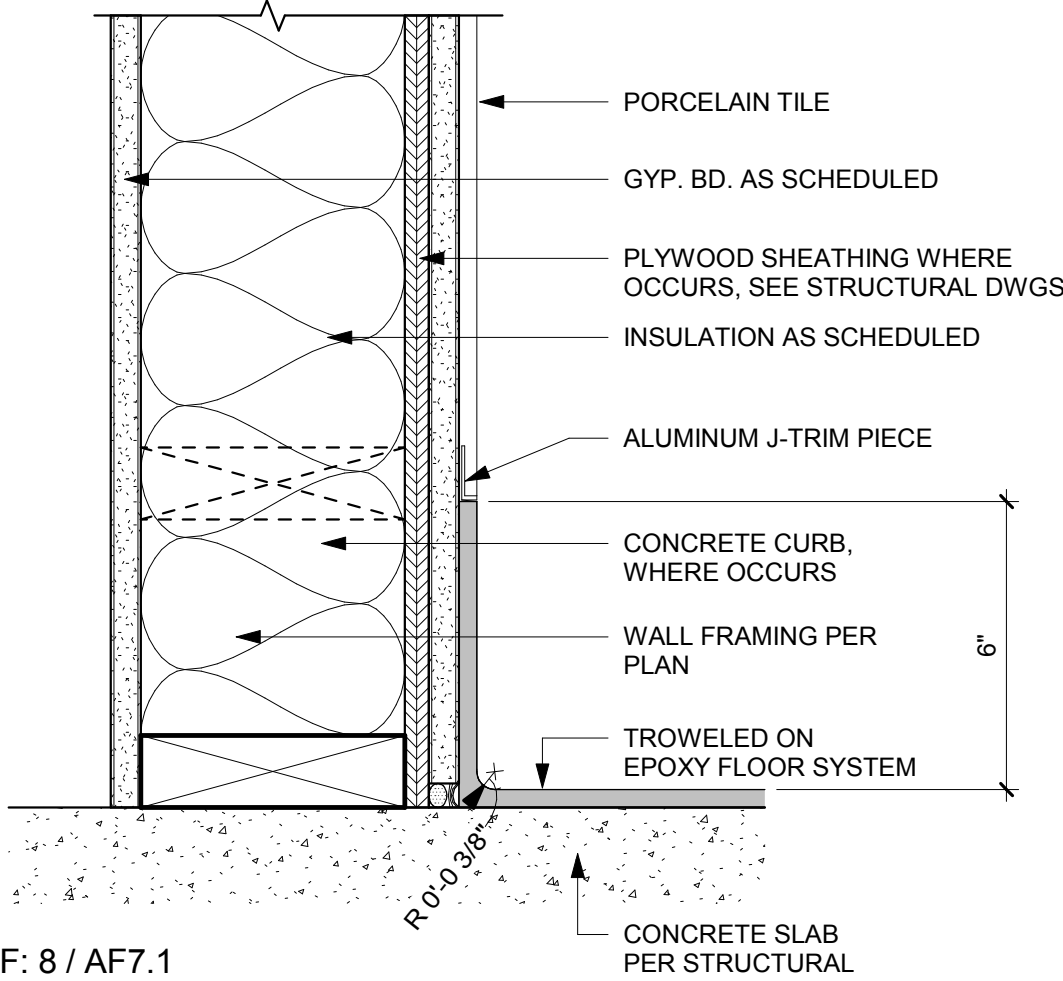
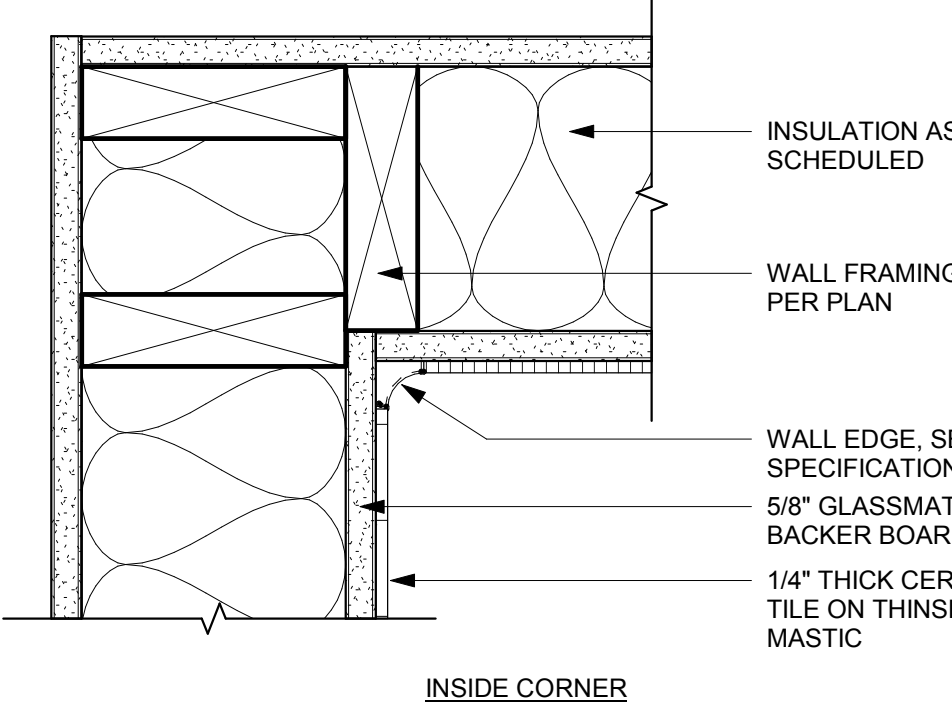
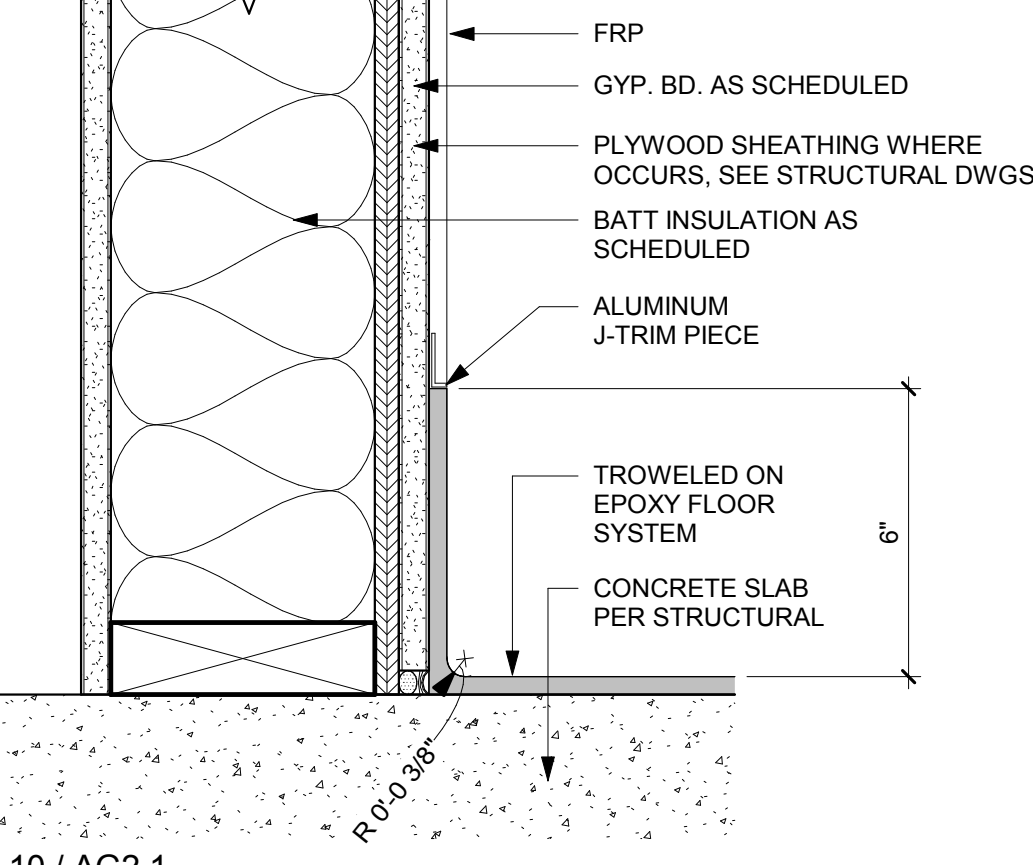
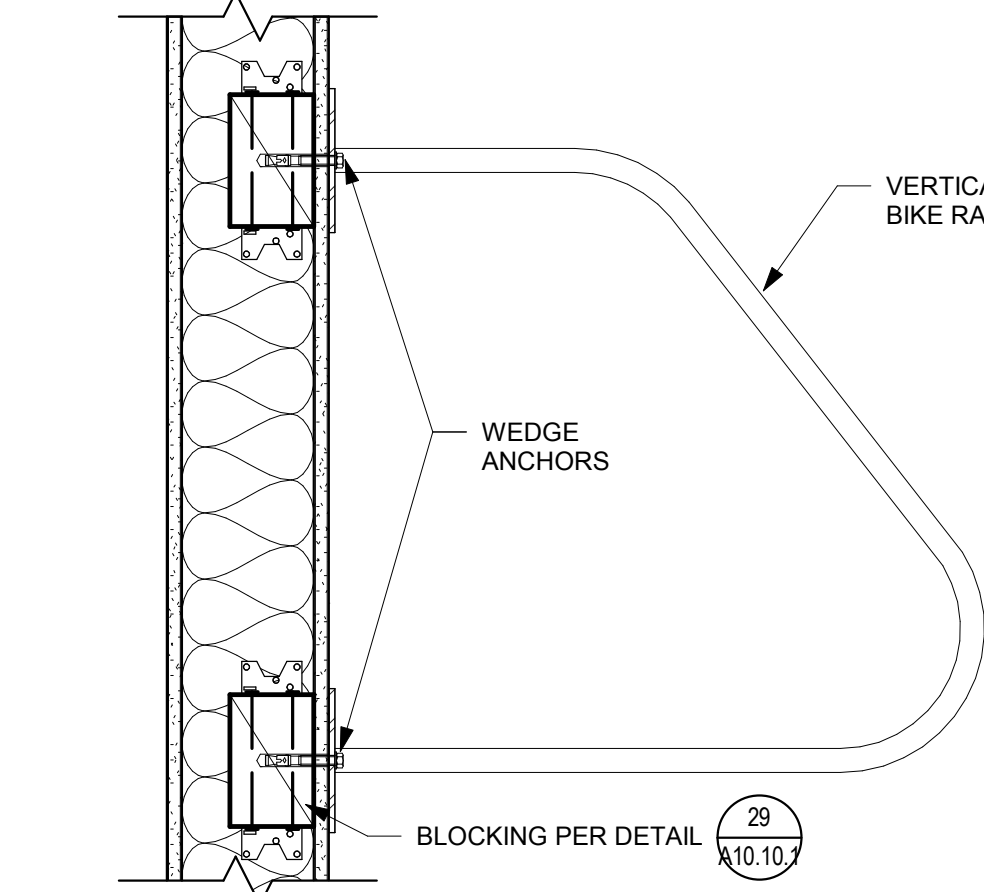
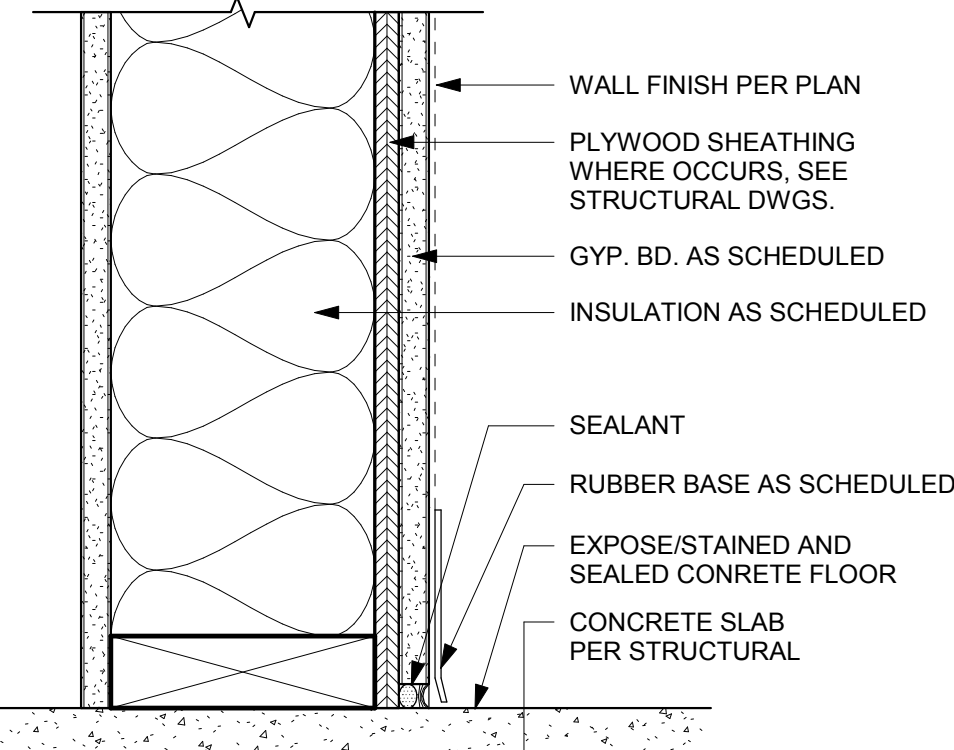
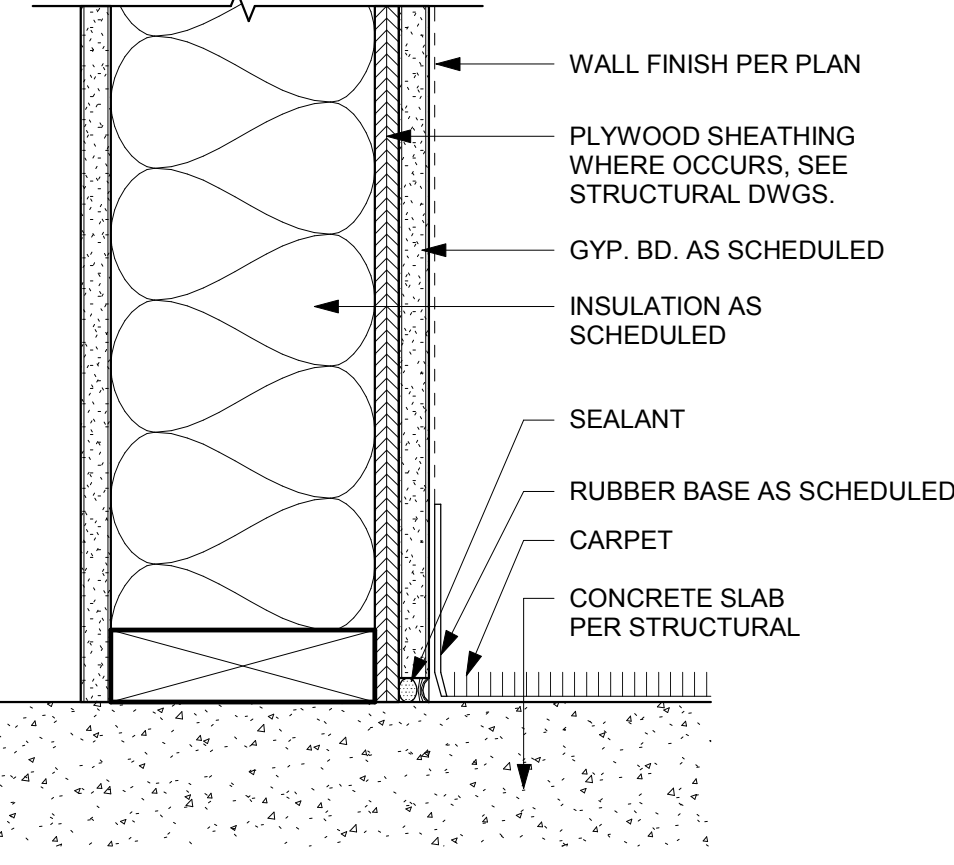
Diagram illustrating the relationship between distance between dots in adjacent cells and distance between dots in the same cell. The diagram shows a grid of cells with dots. Two arrows point from the text labels to the corresponding distances in the grid:

- DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS
- DISTANCE BETWEEN DOTS IN SAME CELL








				<div></div>	<div></div>
				<div>MOP SINK1/2" = 1'-0"6</div>	<div>FLOOR DRAIN AT EPOXY FLOOR3" = 1'-0"1</div>
				<div></div>	<div></div>
				<div></div>	<div></div>
				<div>TILE CORNERS3" = 1'-0"8</div>	<div>COVERED EPOXY AT FRP3" = 1'-0"3</div>
				<div></div>	<div></div>
				<div>VERTICAL BIKE RACK MOUNTING1 1/2" = 1'-0"9</div>	<div>WALL BASE AT CONCRETE FLOOR3" = 1'-0"4</div>
					<div></div>
					<div>WALL BASE AT CARPET3" = 1'-0"5</div>

DSA STAMP

BCA

architecture  
planning  
interiors

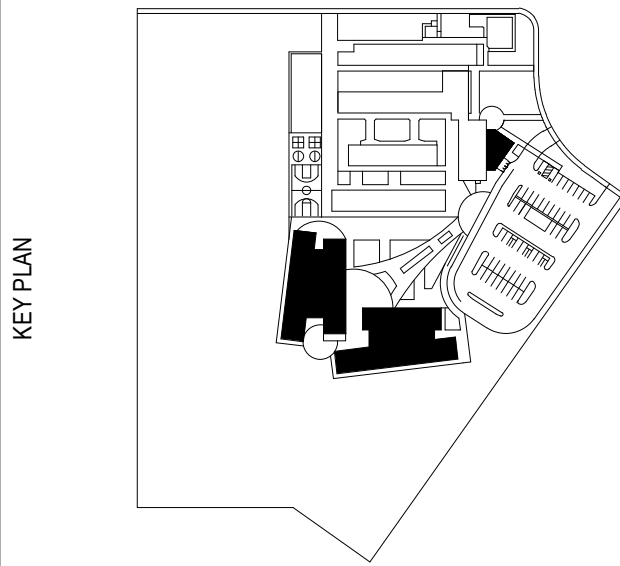
BCA Architects  
980 9th St. Suite 2050  
Sacramento, California 95814  
[ T ] 916.254.5600  
www.BCAarchitects.com

ARCHITECT	ENGINEER
	

- GENERAL NOTES
- This sheet is part of a set and is not to be used alone.
  - This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
  - These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
  - Copyright Burton Clifford Associates, 2015.

NO.	REMARKS	DATE

DRAWING STATUS	DATE
<input checked="" type="radio"/> DSA PLAN CHECK	05/20/2019
<input type="radio"/> DSA BACK CHECK	
<input type="radio"/> BIDDING	
<input type="radio"/> CONSTRUCTION	



WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DSA SUBMITTAL

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

SPECIALTIES

Date 05/20/2019	Project Number 19003
Scale As indicated	Drawing Number A10.10.3
Drawn AA	Checked AM



General Notes

- Construction shall conform to all applicable codes and regulations.
- Shop Drawing Note:
  - Shop drawings shall be submitted in the form of three prints of each sheet, unless submitted to the Division of the State Architect (DSA) requires additional sets.
  - The purpose of shop drawings submitted by the Contractor is to demonstrate to the Structural Engineer that he understands the design concept by indicating which materials he intends to furnish and install, and by detailing the fabrication and installation methods he intends to use.
  - Prior to fabrication, shop drawings shall be submitted for review to the Structural Engineer. Shop drawings shall include but are not necessarily limited to reinforcing steel, structural steel, and glued laminated beams.
- Safety Note:
  - It is the Contractor's responsibility to comply with the pertinent sections, as they apply to this project, of the "Construction Safety Orders" issued by the State of California latest edition, and all OSHA requirements.
  - The owner and the Structural Engineer do not accept any responsibility for the Contractor's with these requirements.
  - The Contractor shall be responsible for adequate design and construction of all forms and shoring required.
- The Contractor shall notify the Architect and Structural Engineer where a conflict or a discrepancy occurs between the structural drawings and any other portion of the contract documents or existing field conditions. Such notification shall be given in due time so as not to affect the construction schedule. In case of a conflict between structural drawings and specifications, the more restrictive condition shall take precedence unless written approval has been given for the least restrictive. Contractor shall verify all dimensions with architectural and structural drawings prior to commencing any work, where no specific detail is shown, the construction shall be identical or similar to that indicated for like cases of construction on this project. Should there be any question, contact the Architect and Structural Engineer prior to proceeding.
- These drawings are not complete until reviewed and approved by Division of the State Architect (DSA) and signed by the Structural Engineer.
- All drawings and written material appearing herein constitutes the original and unpublished work of the Structural Engineer and shall not be duplicated, used, or disclosed without written consent of the Structural Engineer and compensation.
- The structure shown on these drawings is structurally sound only in its completed form. The stability of this structure depends on the diaphragm and the bracing members shown. The contractor is to provide for the design and construction of shoring for all earth, forms, concrete, steel, wood, and masonry to resist gravity, earth, wind, seismic, and construction loads. Shoring shall remain in place until all diaphragm and lateral resisting elements are in place in their entirety.

Abbreviations

add ..... Additional	lt. wt. ....Light weight
alt ..... Alternate	LL ..... Live Load
AISC ..... American Institute of Steel Construction	LLH ..... Long leg horizontal
APA ..... American Plywood Association	LLV .....Long leg vertical
ASTM ..... American Society for Testing and Materials	LVL .....Laminated veneer lumber
AWS ..... American Welding Society	AM ..... Machine bolt
AB ..... Anchor bolt	mfr .....Manufacturer
# ..... And	max .....Maximum
arch ..... Architect/Architectural	min .....Minimum
em ..... Beam	misc .....Miscellaneous
btwn .....Between	met .....Metal
blkg .....Blocking	(N) .....New
BS .....Both sides	nts .....Not to scale
bot .....Bottom	# .....Number or pounds
BN .....Boundary nail	oc .....On center
clg .....Ceiling	ONS .....Open web girder
cc .....Center to center	OH .....Open web joist
cl .....Center line	o.d. ....Opposite diameter
col .....Column	PP .....Partial penetration
CP .....Complete Penetration	Plate
conc .....Concrete	pcf .....Pounds per cubic foot
CHU .....Concrete masonry unit	psf .....Pounds per square foot
cm .....Connection	psl .....Pounds per square inch
CJ .....Construction Joint	PAF .....Powder actuated fasteners
cont .....Continuous	PSL .....Parallel strand lumber
csk .....Countersink	PTDF .....Pressure treated
CT .....Control Joint	rad .....Radius
CL .....Dead Load	RDPD .....Reinforced
diag .....Diagonal	reht .....Reinforcing
diam .....Diameter	req'd .....Required
D.F. ....Douglas Fir	R.O. ....Rough opening
dbl .....Double	# .....Round diameter
eng .....Drawings	sched .....Schedule
ea .....Each	SPSTS .....Self drilling self tapping screw
E.F. ....Each Face	shg .....Sheathing
embed .....Embedment	SHS .....Sheet metal screw
EN .....Edge Nail	sim .....Similar
E.N. ....Each Way	# .....Staggered
elev. el .....Elevation	std .....Standard
eq .....Equal	stl .....Steel
equip .....Equipment	stfr .....Stiffener
(e) .....Existing	struct .....Structural
Expn .....Expansion Joint	sym .....Symmetrical
FC .....Face of concrete	TN .....Toe nail
FB .....Face of block	t&b .....Top & bottom
FM .....Face of masonry	LoC .....Top of concrete
FS .....Face of Stud	Lo.F .....Top of framing
FF .....Finish floor	Lo.E .....Top of plate
FG .....Finish grade	Lo.S .....Top of Steel
flr .....Floor	Lo.W .....Top of Wall
ftg .....Footing	t&g .....Tongue & Groove
ftmg .....Framing	TS .....Tie Steel
galv .....Galvanized	typ .....Typical
ga .....Gage	u.n.o. ....Unless noted otherwise
GLB .....Glued-laminated beam	vert .....Vertical
hgr .....Hanger	w .....With
hdr .....Header	w/n .....With
H .....Height	w/o .....Without
HSB .....High strength bolt	WS .....Wood screw
HS .....Hollow structural section	WP .....Welding point
horiz .....Horizontal	WVF .....Welded wire fabric
int .....Interior	WCLIB .....West Coast Lumber Inspection Bureau
jo .....Joist	
jh .....Joist hanger	

Design Criteria

- Codes and Standards:
  - 2016 California Building Code (CBC)
  - Building Code Requirements for Structural Concrete - ACI 318-14
  - Building Code Requirements for Masonry Structures - TMS 402-13/ACI 530-13/ASCE 5-13
  - Specification for Masonry Structures - TMS 602-13/ACI 530-13/ASCE 6-13
  - Specification for Structural Steel Buildings - AISC 360-10
- Vertical Loads:

Roof Live Load = 20 psf (reducible)
- Soils Values:

Allowable soil bearing pressures:

  - DL+L= 3000 psf
  - DL+LL+wind/seismic= 3490 psf
- Wind Load Design Criteria:
  - Ult. Design Wind Speed,  $V_{ult}$ = 110 mph
  - Nom. Design Wind Speed,  $V_{nom}$ = 85 mph
  - Risk Category - II
  - Wind Exposure - C
  - Internal Pressure Coefficient,  $GC_p$ = -0.18, +0.18
- Seismic Load Design Criteria:
  - Risk Category - II
  - Seismic Importance Factor,  $I_p$ = 1.0
  - Site Class = C
  - $S_s$  = 0.715g  $S_{d1}$  = 0.303g
  - $S_{s2}$  = 0.585g  $S_{d2}$  = 0.363g
  - Seismic Design Category, SDG = D
  - Seismic Force-Resisting System/s: Head-Resisted Shearwalls
  - Response Modification Coef., R = 6.5
  - Analysis Procedure = Static

Foundations

- All foundation work shall be done in accordance with the requirements of the Soils Report No. 12271.01P by Wallace-Fuhr & Associates, dated April 2, 2019
- All foundations shall bear on engineered fill.
- Building pad construction shall conform to the requirements of the Soils Report. The extent and depth of overexcavation and placement of engineered fill shall be required by the Soils Report. Final depth and extent of excavation and fill shall be determined at time of construction by a representative of the Soils Engineer.
- Bottoms of all foundations shall be level. Changes in bottom of foundation elevation shall be constructed only as detailed on the drawings.
- Foundations may be cast in neat excavations provided the footing excavations are stable and able to maintain a cut edge without sloughing. In such case, provide minimum formwork as detailed on the drawings to insure clean excavations immediately prior to and during concrete placement. Starter walls are required for all masonry and concrete walls. See "Mandatory Minimum Formwork" detail on the typical details sheets.
- Notify the Structural Engineer 48 hours before casting foundations.

Concrete

General: All concrete construction shall conform to the California Building Code (CBC), and Building Code Requirements for Structural Concrete (ACI 318).

- Structural concrete shall attain 28 day compressive strength as required in Note #20.
- Selection of concrete proportions shall be per ACI 318 Section 26.4.3. Mix designs shall be submitted to the laboratory responsible for the Special Inspections for review and approval prior to concrete placement.
- Concrete evaluation and acceptance shall be per ACI 318, Section 26.12.
- Concrete shall be mixed, placed, and cured in accordance with ACI 318, latest edition, and project specifications.
- Cement shall conform to ASTM C-150 type I or II.
- Concrete aggregates shall conform to ASTM C-33. Aggregates for lightweight concrete shall conform to ASTM C-330.
- Construction joints shall be made rough and all loose materials removed from the surface. The entire surface of the joint shall be roughened by chipping, sand blasting or raising the surface to produce 1/8" deep deformations.
- Remove all debris and loose materials from forms and excavations before casting any concrete.
- Reinforcing, dowels, bolts, anchors, sleeves, etc., to be embedded in concrete shall be tied securely in position before placing concrete.
- Concrete shall not be dropped through reinforcing steel (as in walls) so as to cause segregation of aggregates. In such cases, rappers and vertical chutes or trunks shall be used such that the free unwanted fall of concrete does not exceed six feet.
- Consolidate concrete placed in forms by mechanical vibrating equipment supplemented by hand spading, rodding or tamping. Use equipment and procedures for consolidation of concrete in accordance with the recommended practices of ACI 304 to suit the type of concrete and project conditions.
- No wood spacers allowed in areas to be concreted.
- All saw cutting of construction joints shall be done after initial set has occurred to avoid tearing or damage by the saw blade, but before initial shrinkage has occurred.
- Additional reinforcing in tilt-up panels required for lifting stresses shall be supplied by the Contractor at no additional cost to the Owner.
- Provide 2-#4x4'-0" diagonal reinforcing at mid-depth of slab at all reentrant corners typical.
- See Architectural Drawings for wall openings, wall offsets, changers, kerfs, drips, etc.
- Casting concrete during cold weather shall be in accordance with all provisions of ACI 306 (latest edition), Standard Specification for Cold Weather Concreting.
- Casting concrete during hot weather shall be in accordance with all provisions of ACI 305 (latest edition), Specification for Hot Weather Concreting.
- Special provisions for Floor slabs on ground:
  - The parameters for the mix design listed below for floor slabs on ground are intended to provide a low shrinkage concrete mixture.
  - Joints in the floor slabs shall be constructed and spaced per  $\frac{4}{3}$ .
  - Floor slabs shall be cast directly on a vapor barrier as specified on the drawings or in the specifications.
  - Floor slabs shall be moist cured for a minimum of 7 days unless otherwise noted in the specification.
  - Floor slabs shall not be loaded until they have reached their specified design strength.

Concrete types:				
Class	Item	Max Aggregate 1½" @ 28 days	Weight	Max W/C Ratio
A.	Conc. @ footings	4000 psi	145	0.60
*B.	Floor Slabs on Ground	4000 psi	145	0.45
C.	All Exterior Conc. Slabs, Girts, Pads, Piers, Walls, Etc.	3000 psi	145	0.50
* A shrinkage reducing admixture conforming to ASTM C-494 Type S, shall be included in this mix. Minimum dosage for shrinkage reducing admixture shall be 48 fluid ounces per cubic yard of concrete, or as recommended by the admixture manufacturer for general shrinkage reduction. Additionally, this mix shall contain an integral water-proofing admixture such as Moxie, or similar.				
<u>Notes:</u>				
a) Concrete shall have a maximum slump of 4".				
b) A water-reducing admixture should be added where increased workability is needed or desired.				
c) The parameters for the concrete mixes, where applicable, were governed by the durability requirements of ACI 318-14, Section 14.3.				

Reinforcing Steel

- Reinforcing steel shall conform to ASTM A615- grade 60 for #4 and larger, and ASTM A615-grade 60 for #3 and smaller, except reinforcing steel to be welded shall conform to ASTM A1036.
- All preheating and welding of reinforcing bars shall be done in accordance with AWS D1.4 latest edition and shall be continuously inspected by a qualified laboratory. Contractor shall furnish to the laboratory rebar mill certificates.
- Reinforcing steel shall be fabricated in accordance with the ACI "Manual of Standard Practice for Reinforced Concrete Construction", latest edition.
- Wire fabric shall conform to ASTM A-185 and shall be lapped 12" minimum at splices.
- Reinforcing steel shall be kept clean and free of rust.
- Shop drawings for reinforcing steel shall be submitted for review prior to fabrication and delivery of reinforcing steel.
- Provide all accessories necessary to support and secure reinforcing steel in the positions shown on the plans. All reinforcing steel shall be tied securely in position prior to placing concrete.
  - For concrete cast against earth.....3"
  - For concrete exposed to earth or weather:
    - #5 and smaller bars.....1½"
    - #6 and larger bars.....2"
    - #8 and smaller bars in tilt-up panels.....1"
  - For concrete not exposed to earth or weather.....1½"
- Splices in reinforcing steel shall be Class B unless noted otherwise and shall conform to the following schedule:

Lap Splice Length Schedule										
Splice Class	Reinforcing Location	#3	#4	#5	#6	#7	#8	#9	#10	#11
B	Top Bars	17"	23"	41"	46"	74"	93"	113"	137"	162"
	Other Bars	16"	17"	32"	35"	57"	72"	87"	106"	125"

- Notes:
- Schedule applies to uncoated, Grade 60 reinforcing steel, and normal weight, 3000 psi & 4500 psi concrete.
  - Top bars are located such that 12" or more of fresh concrete is cast below the splice.
  - For light weight concrete, multiply lap lengths by 1.30.
  - Schedule applies to bars with a clear spacing of not less than 2 inches plus one bar diameter, and to bars with concrete cover of at least 1 inch.

Structural Steel

General: All design, fabrication and erection of structural steel for buildings and structures shall be in accordance with the California Building Code (CBC), and the Specification for Structural Steel Buildings (AISC 360).

- Structural steel H and HT shapes shall conform with ASTM A992 steel, Structural steel angles, channels, miscellaneous channels, and plates shall conform with ASTM A36 steel unless noted otherwise.
- Steel pipe shall conform to ASTM A-53, Types E or S, grade B.
- Structural steel tubing shall conform to ASTM A-500, grade B.
- Welding shall be done by the electric arc process in accordance with American Welding Society standards, using only certified welders. All groove welds shall have complete penetration unless noted otherwise. All exposed welds shall be ground. All welding to be done using E70xx electrodes. In addition welding of ASTM A572 grade 50 steel and ASTM A992 steel shall be done with low hydrogen E70xx electrodes.
- All structural steel shall be erected plumb and true to line. Temporary bracing shall be installed and shall be left in place until other means are provided to adequately brace the structure.
- Place non-shrink grout under all base plates before adding vertical load.
- Bolted connections shall consist of unfinished bolts conforming to ASTM A-307 unless noted otherwise. Where high strength bolts are indicated, bolts conforming to ASTM A325-N shall be provided (provide A325-SC bolts where indicated.)
- Holes for unfinished bolts shall be of the same nominal diameter of the bolt plus 1/8". Use standard AISC gages and pitch for bolts except as noted otherwise.
- Holes for anchor bolts embedded in concrete shall be of the same nominal bolt diameter plus 3/8" unless noted otherwise.
- Provide 1½" diameter stitch bolts and ring fills, spaced at not more than 24"cc for all double angle members.
- All wood to steel parallel contact, bolt with 1½" diameter bolts at maximum 24"cc.
- All structural steel shall receive minimum of one shop coat of red primer paint. Do not paint areas to be field welded, to receive friction type high strength bolts, or to be embedded in concrete. Provide additional painting as noted in the specifications.
- All structural steel below grade shall have 3" minimum of concrete cover.

Wood

- Sawn lumber shall conform to the following minimum specifications unless noted otherwise:

Member	Species	Grade
2x Joists, rafters, and sub-purlins	Douglas Fir-Larch	No. 1
2x and 3x studs, plates, and blocking	Douglas Fir-Larch	No. 2
4x and 6x posts	Douglas Fir-Larch	No. 1
4x and 6x beams, purlins, and headers	Douglas Fir-Larch	No. 1

- Glued Laminated Beams shall be manufactured and identified as required in ANSI/APA-A 1901 and ASTM D 3757. Glued laminated beams shall be combination 24F-V4 for simple span members and 24F-V8 for cantilevered members. All glued laminated beams shall be manufactured with a 2000 ft. radius camber (except cantilevers shall have no camber) unless noted otherwise. Each glued-laminated beam shall be fabricated with exterior glue and shall be wrapped to be for exterior use. Each glued-laminated beam shall be sealed and wrapped per AITC III. Glumes designated as "AA" shall be Architectural Appearance Grade.
- Preservative-treated wood shall conform to the requirements of the applicable ANFA Standard U1 and M4 for the species, product, preservative, and end use. Preservatives shall be listed in Section 4 of ANFA U1. Preservative treated wood shall bear a quality mark stamp or label per CBC 2303.1.B1. Field cuts and bolt holes in preservative-treated wood shall be protected in accordance with ANFA Standard M4.
- Wood Structural Panel Sheathing shall conform to DGC PS 1 or PS 2 with exterior glue.
- All wood in direct contact with concrete or masonry shall be preservative-treated.
- Bearing and shear walls shall have double top plates, lapped at wall and partition intersection with 3x and nails. Splice double top plates as noted or detailed on the drawings.
- Provide solid blocking between joists and rafters at all supports.
- Provide blocking at all ceiling levels.
- Joists under and parallel to partitions shall be doubled and nailed together.
- Holes for bolts in wood shall be bored with a bit equal in size to the diameter of the bolt plus 1/8".
- Holes for lag screws shall be bored as follows:
  - The clearance hole for the shank shall have the same diameter as the shank, and the countersink penetration shall be the length of the threaded shank.
  - The lead hole for the threaded portion shall have a diameter equal to 60% to 75% of the shank diameter and a length equal to at least the length of the threaded portion.
  - Lag screws and wood screws shall be screwed and not driven into place. Soap may be used to lubricate the screws.
- All bolts and lag screws shall be provided with metal washers under heads and nuts which bear on wood. Applies also to inserted expanding fasteners, Red Head, etc.
- All bolts and lag screws shall be tightened on installation and retightened before closing in or at completion of job.
- Lay all structural sheathing panels on roofs and floors with face grain perpendicular to supports unless noted otherwise.
- Use pliclips at midspan of all unsupported roof sheathing edges.
- Connector hardware model number are those for Simpson Strong-Tie Company. Equivalent connectors with ICC Evaluation Report may be substituted. All joist hangers shall be Simpson U series unless noted otherwise.
- Nails shall have the following minimum dimensions (measured before application of any protective coatings):

Nail	Diameter	Length
16d common	0.162"	3½"
16d common	0.148"	3"
8d common	0.131"	2½"
16d sinker	0.148"	3¾"
10d box	0.128"	3"
8d box	0.113"	2½"

- Anchor bolts for foundation sill plates shall be ¾" diameter with a 12" minimum length, & 1" minimum embedment into concrete. Anchor bolts shall conform to ASTM A307 with a standard hex head at the embedded end and shall conform to ASTM A36 with a fully engaged hex nut on the embedded end. Anchor bolts shall be spaced at 48"cc unless noted otherwise. Provide at least two anchor bolts per each piece of foundation sill plate and, provide an anchor bolt not more than 12" nor less than 4" from the ends of each piece of foundation sill plate. Provide hot-dipped galvanized washers at all anchor bolts as follows:

non-shrinkwells - cut washers  
shrinkwells - plate washers, per  $\frac{14}{32}$
- Per CBC 2304.4.5, fasteners for (installed) in preservative-treated and fire-retardant-treated wood shall be of hot-dipped galvanized steel or stainless steel. The coating weights for zinc-coated fasteners shall be in accordance with ASTM A-153. Exception: Fasteners other than nails, wood screws and lag screws may be of mechanically deposited zinc coated steel with coating weights in accordance with ASTM B 645, Class 55 minimum.
- No upset threaded bolts allowed, use only cut-thread bolts with full diameter bodies. See table below for dimensional requirements for cut-thread bolts with full diameter bodies:

Nominal Bolt Size	Body or Shank Diameter (Inches)	
	Max.	Min.
½" (0.500)	0.515	0.482
¾" (0.625)	0.642	0.605
¾" (0.750)	0.768	0.724
¾" (0.875)	0.845	0.852
1" (1.000)	1.022	0.976

Note: The body, or shank, of the bolt is the smooth part between the head and the threads.

- Lumber moisture content shall not exceed 19%.
- All nails used shall be commons unless specifically noted otherwise.

Nailing Schedule

Connection	Nailing
1. Joist to sill or girder	3-8d common, toenail 3-3"x0.131" nails, toenail
2. Sole plate to joist or blocking	3-16d common @ 16"cc 4-3"x0.131" nails, toenail @ 16"cc
3. Stud to Top plate	3-16d common, toenail 4-3"x0.131" nails, toenail
4. Stud to sole plate	3-16d common, toenail 4-3"x0.131" nails, toenail
5. Double top plates btwn lap splices	16d common @ 12"cc 3-3"x0.131" nails @ 8"cc
6. Double top plates at lap splices	12-16d common, evenly spaced 18-3"x0.131" nails, evenly spaced
7. Built-up girders, beams, or multiple studs, joists and rafters (made up of multiple 2x members)	2 rows of 16d common @ 24"cc 2 rows of 3"x0.131" nails @ 16"cc
8. Blocking btwn joists or rafters	3-10d common, toenail each end to joist or rafter
9. Blocking btwn joists or rafters to top plate or beam	3-10d common, toenail 3-3"x0.131" nails, toenail
10. Rim joist to top plate	10d common toenail @ 6"cc 3"x0.131" nails, toenail @ 6"cc
11. Top plate intersections	2-16d common 3-3"x0.131" nails
12. Ceiling joists to top plate	3-10d common, toenail 5-3"x0.131" nails, toenail
13. Ceiling joist laps over partitions	3-16d common, minimum 4-3"x0.131" nails, minimum Also see CBC Table 2303B.10.4.1
14. Ceiling joist to parallel rafters	3-16d common, minimum 4-3"x0.131" nails, minimum Also see CBC Table 2303B.10.4.1
15. Rafter to top plate	3-10d common, toenail 4-3"x0.131" nails, toenail
16. Built-up corner studs	16d common @ 16"cc 3"x0.131" nails @ 12"cc
17. Collar tie to rafter	3-10d common
18. Jack rafter to hip	3-16d common, toenail 4-3"x0.131" nails, toenail
19. Rafter to 2x ridge	3-16d common, toenail 5-3"x0.131" nails, toenail
20.Wood structural panel wall or floor sheathing	8d common @ 6"cc at edges 8d common @ 12"cc in field

- Notes:
- This nailing schedule shall govern unless other connections are specifically detailed or noted otherwise.
  - Connections are "Face nail" unless noted as toenail.
  - Holes shall be pre-drilled where necessary to prevent splitting.
  - Nailing not noted on plans or in this nailing schedule shall be a minimum of two nails at each contact, with 8d nails being used for 1" nominal material and 10d nails being used for 2" nominal material.

Powder Actuated Fasteners (PAF)

- These notes govern all conditions called out on the plans as PAF unless specifically noted otherwise.
- All PAF shall be as manufactured by Hilti Incorporated. Reference shall be made to the Hilti Product Technical Guide for additional information.
- PAF driven into steel base material shall be X-CR type with P8 washers unless noted otherwise in the drawings. Length of fastener shaft shall be as required to penetrate through the steel base material. Minimum edge distance to any connected part shall be 1½" and minimum fastener spacing shall be 2".
- PAF driven into concrete base material shall be X-C type with P8 washers unless noted otherwise in the drawings. Length of fastener shaft shall be as required to penetrate 1½" into the concrete base material. Minimum edge distance to any concrete material shall be 3" and minimum fastener spacing shall be 4".
- PAF driven into concrete base material through metal deck shall be X-C type with P8 washers. Length of fastener shaft shall be as required to penetrate 1" into the concrete through the low flute. Fastener shall be centered in the low flute and minimum fastener spacing shall be 4".
- Installation of fasteners shall be in accordance with manufacturer's recommendations and the ICC-ES Report ESR-1663, latest edition.

Structural Composite Lumber

- Laminated Veneer Lumber 1.4E Microlam LVL (PA 045)
  - Laminated Veneer Lumber specified on these drawings is manufactured by Neugebauer, ICC Report ESR-1087. Allowable products with current ICC Reports may be used provided their allowable design stresses meet or exceed those specified below.
  - 1.4E Microlam LVL allowable design stresses (for loads of normal duration):

Shear modulus of elasticity	E = 1.8 x 10 <sup>6</sup> psi
Modulus of elasticity	E <sub>m</sub> = 2600 psi
Flexural Stress	F <sub>b</sub> = 1500 psi
Compression perpendicular to grain	F <sub>c⊥</sub> = 2500 psi
Compression parallel to grain	F <sub>v</sub> = 285 psi
Horizontal shear	

Simpson SET-3G Adhesive Anchors in Concrete

- Use Simpson SET-3G Adhesive Anchors as manufactured by Simpson Strong Tie Company, Inc. ICC Report No. ESR-4057, latest issue.
- Installation of anchors shall be in accordance with the manufacturer's recommendations, ICC report and these notes.
- Holes for installation of the threaded rod or reinforcement bar must be cleaned of dust and debris, using a nylon brush and oil-free compressed air as required to remove particulate debris and to achieve a relatively dust-free surface.
- Special inspection is required for anchor installations.
- When installing anchors do not cut or damage existing reinforcing bars.
- Threaded anchor bolts to ASTM A307 grade G, ASTM A193 grade B1, or ASTM A193 grades B6 or B8.
- Deformed reinforcing bars (rebar) to conform to ASTM A615.
- Concrete shall be normal weight with a minimum compressive strength of 2500 psi.
- All anchors through pressure treated lumber shall be stainless steel.
- Testing Requirements:
  - When anchors are listed for sill plate bolting applications, 10 percent of the anchors shall be tension tested
  - When anchors are used for other structural applications, all such anchors shall be tension tested
  - When anchors are used for nonstructural applications such as equipment anchorage, 50 percent or alternate bolts in a group, including at least one-half the anchors in each group, shall be tension tested
  - The tension testing of the anchors shall be done in the presence of the special inspector and a report of the test results shall be submitted to the enforcement agency. If any anchors fail the tension-testing requirements, the additional testing requirements shall be acceptable to the enforcement agency.

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NO.	REMARKS	DATE

DATE
12/20/2019
<input checked="" type="radio"/> DSA PLAN CHECK
<input type="radio"/> DSA BACK CHECK
<input type="radio"/> BIDDING
<input type="radio"/> CONSTRUCTION

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WESTACRE ROAD  
WEST SACRAMENTO, CA 95691

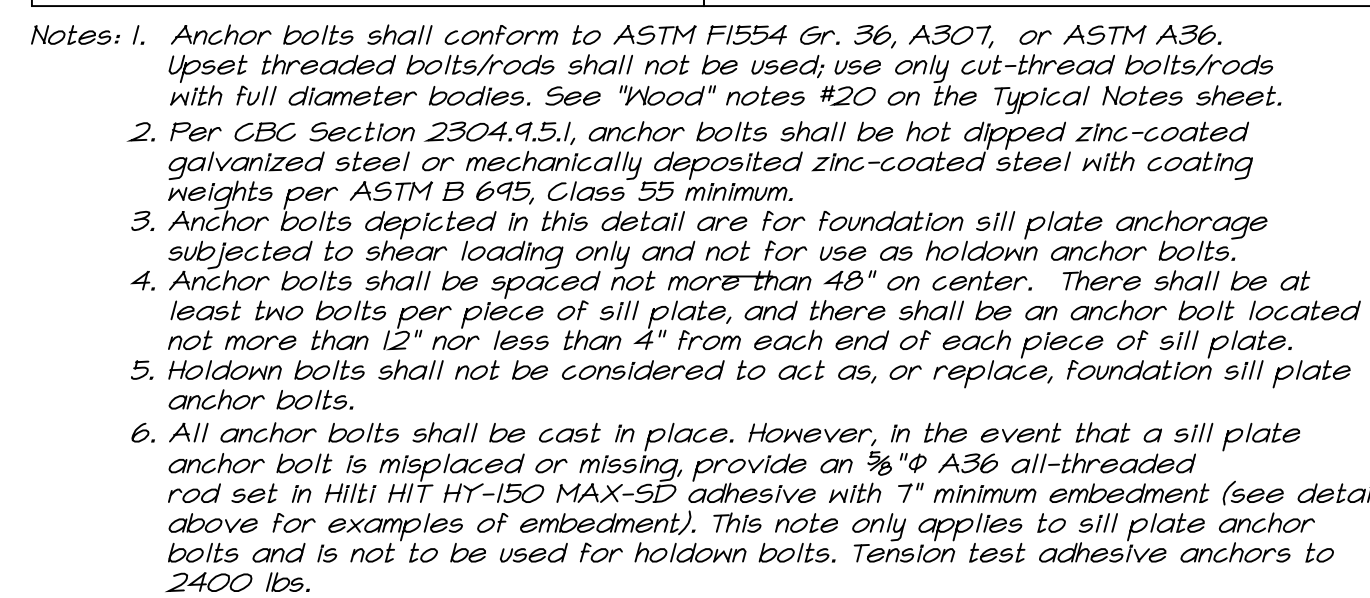
CONSTRUCTION DOCUMENTS

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SCHOOL  
1504 FALLBROOK ST.  
WEST SACRAMENTO, CA  
95691

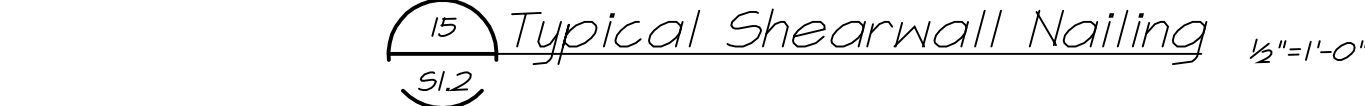
Typical Notes

Date	Drawing Number
05/20/2019	
Scale AS NOTED	S1.1
Project Number 19003.2	





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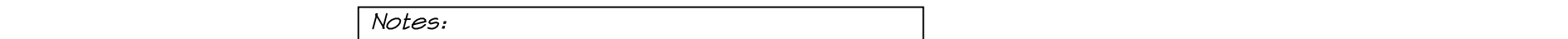
— Douglas Fir #1 hr,  
8" nominal depth


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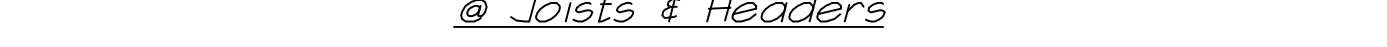
○  $\mathcal{C} = \{C_1, \dots, C_n\}$  is a family of  $n$  subsets of  $\mathcal{U}$  such that



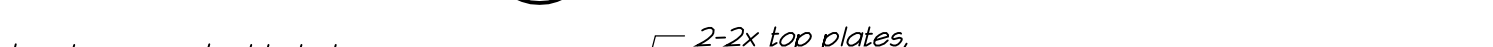
1. Straps are to be installed over structural wall sheathing



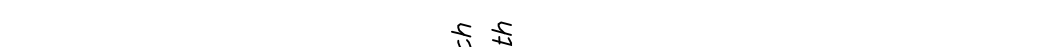
12 Typical Duct Penetration Thru Shearwalls  $\frac{1}{2}''=1'-0''$

Beam 1 parallel to flow

Note: In no case shall the edge of the bored hole be



splice per 2 2-16d @ 2x4 stud top 2-2


$$\frac{\text{note}}{\text{dep}}$$

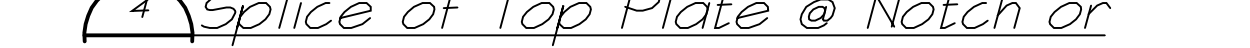

Condition where opening exceeds 10'-0"



A number line from 0 to 10 with tick marks every 1 unit. A bracket below the line from 0 to 1.2 is labeled  $\frac{5}{2}$ .

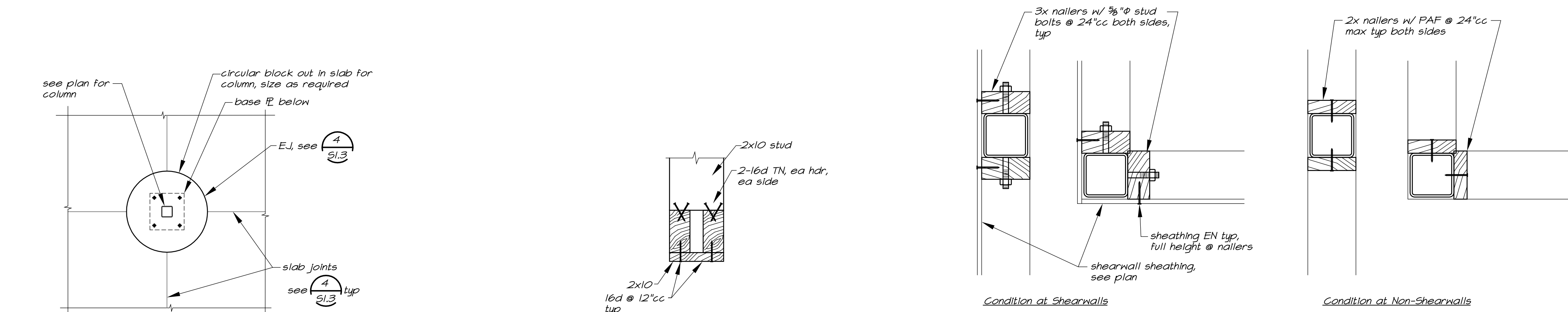


5/2



## 51.2 Holes For Pipes or Conduits

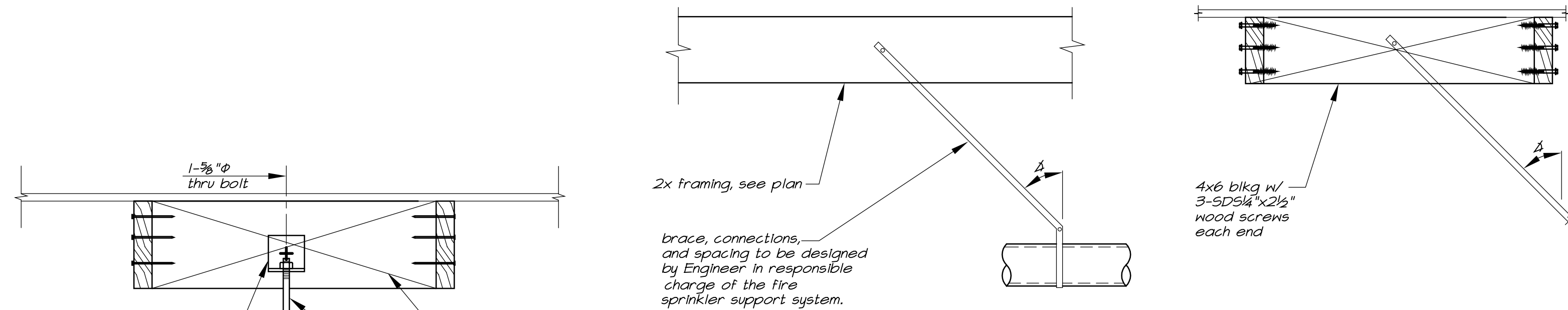




15 Typical Slab Block-out 5/1.3 3/8"=1'-0"

16 Typical Double Header Detail 5/1.3 1"=1'-0"

17 Typical Nailers at HSS Columns in Walls 5/1.3 1 1/2"=1'-0"



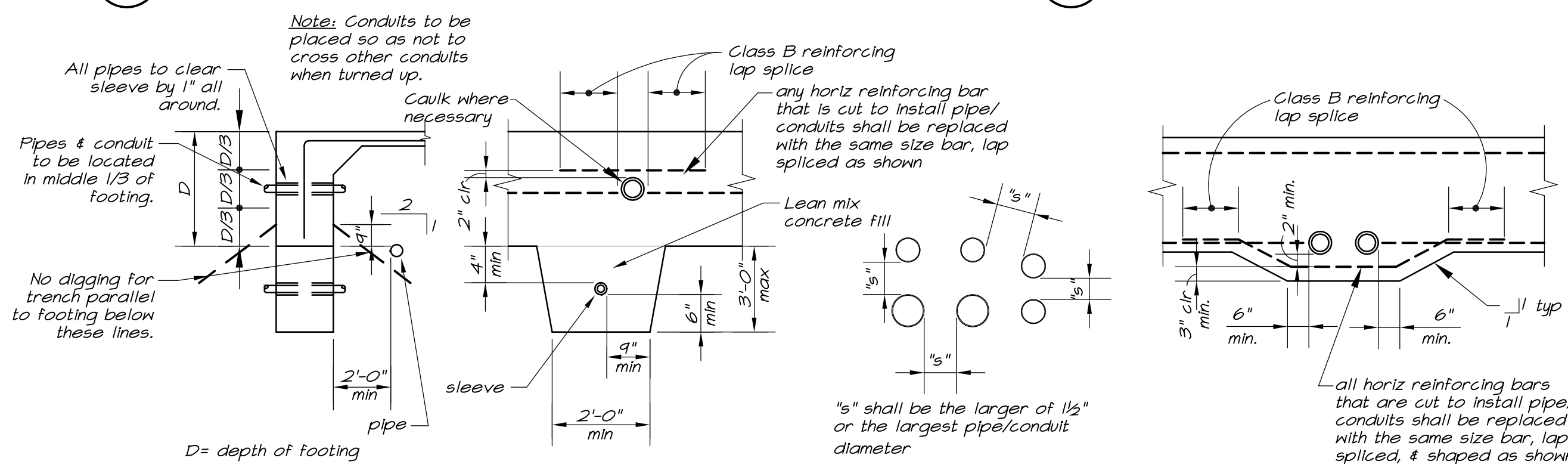
Angle to Vertical (4)	30°	45°	60°
85	70	50	

1. The loads in the table are based on the controlling connection to the joist.  
 2. The capacity of the brace fastener to the wood member may limit the capacity of the detail.  
 3. The forces include a 1.33 duration factor adjustment.

Note: 1. This detail is provided as a general guideline for bracing fire sprinkler pipes. The Fire Sprinkler Contractor shall provide calculations and details, signed by a Structural Engineer licensed in the State of California, for the actual fire sprinkler support system to be installed. Calculations shall utilize an Importance Factor,  $I_p = 1.5$  as required by the California Building Code, CBC.  
 2. This detail is intended for bracing of branch lines only. Main sprinkler lines shall be braced by other means. Bracing design including connections shall be by the Engineer in responsible charge of the fire sprinkler support system.

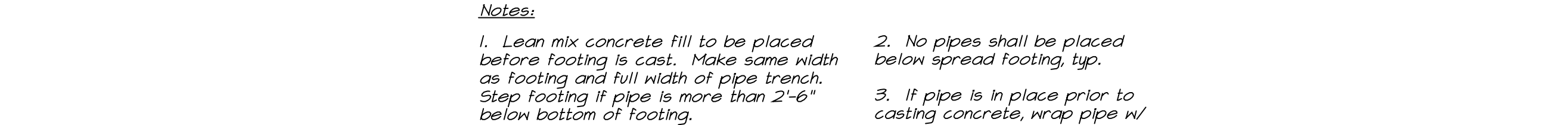
10 Typical Hanger Rod Connection 5/1.3 1 1/2"=1'-0"

11 Fire Sprinkler Brace Connection 5/1.3 1 1/2"=1'-0"



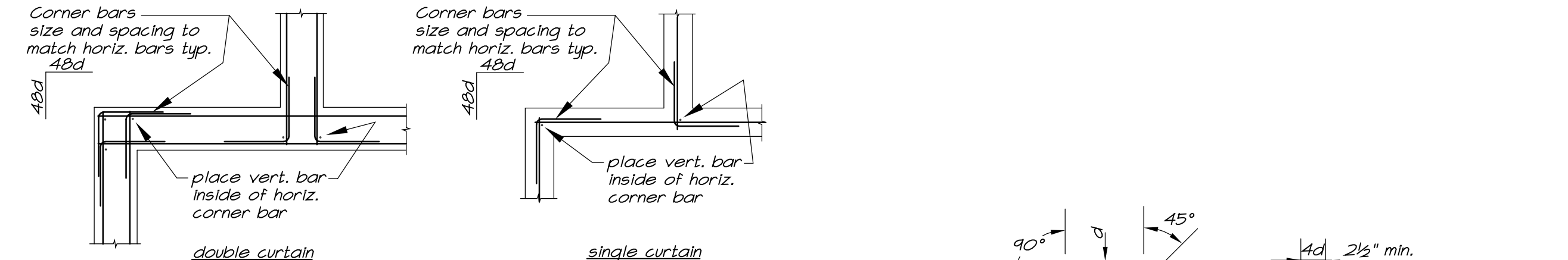
12 Typical Ceiling Joists 5/1.3 3/4"=1'-0"

14 Typical 3x Blkg to Stud Connection 5/1.3 3/4"=1'-0"

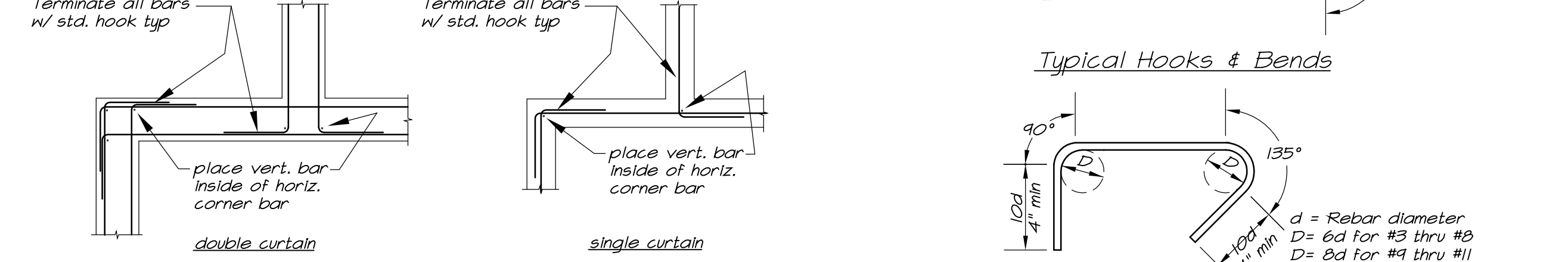


13 Typical Blocking for Wall-Mounted Equipment 5/1.3 1 1/2"=1'-0"

15 Typical Hanging Loads to 2x Framing Connection 5/1.3 1 1/2"=1'-0"



6 Pipes & Conduits at Footings 5/1.3 3/8"=1'-0"

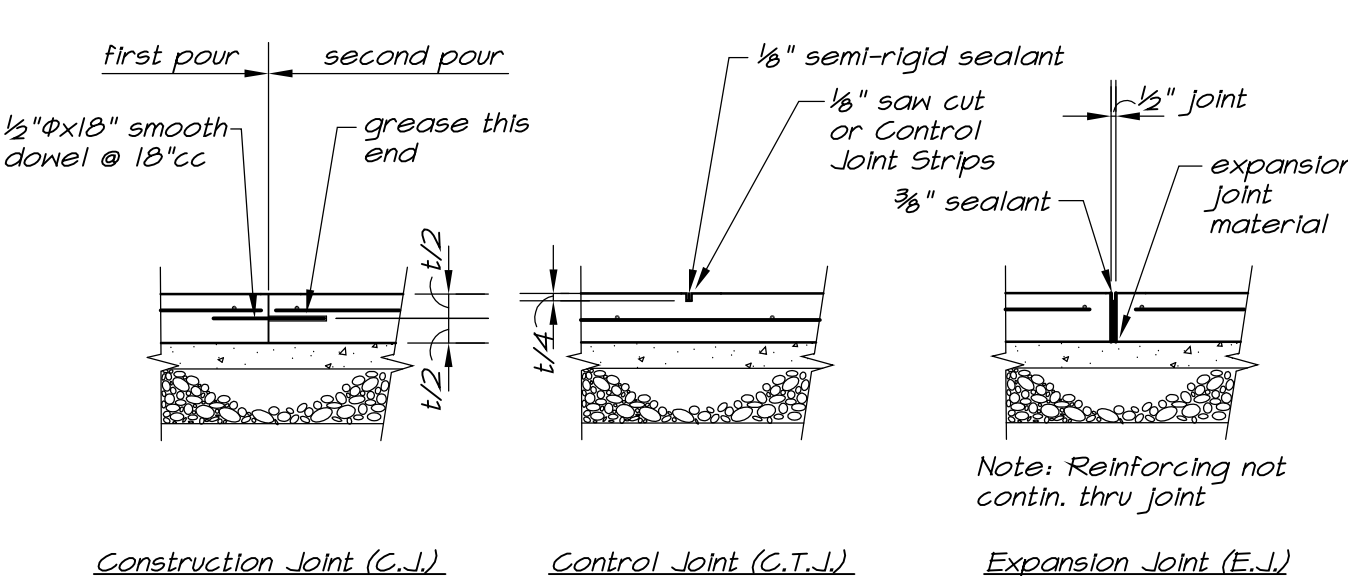


1 Typical Corner Reinforcing 5/1.3 3/8"=1'-0"

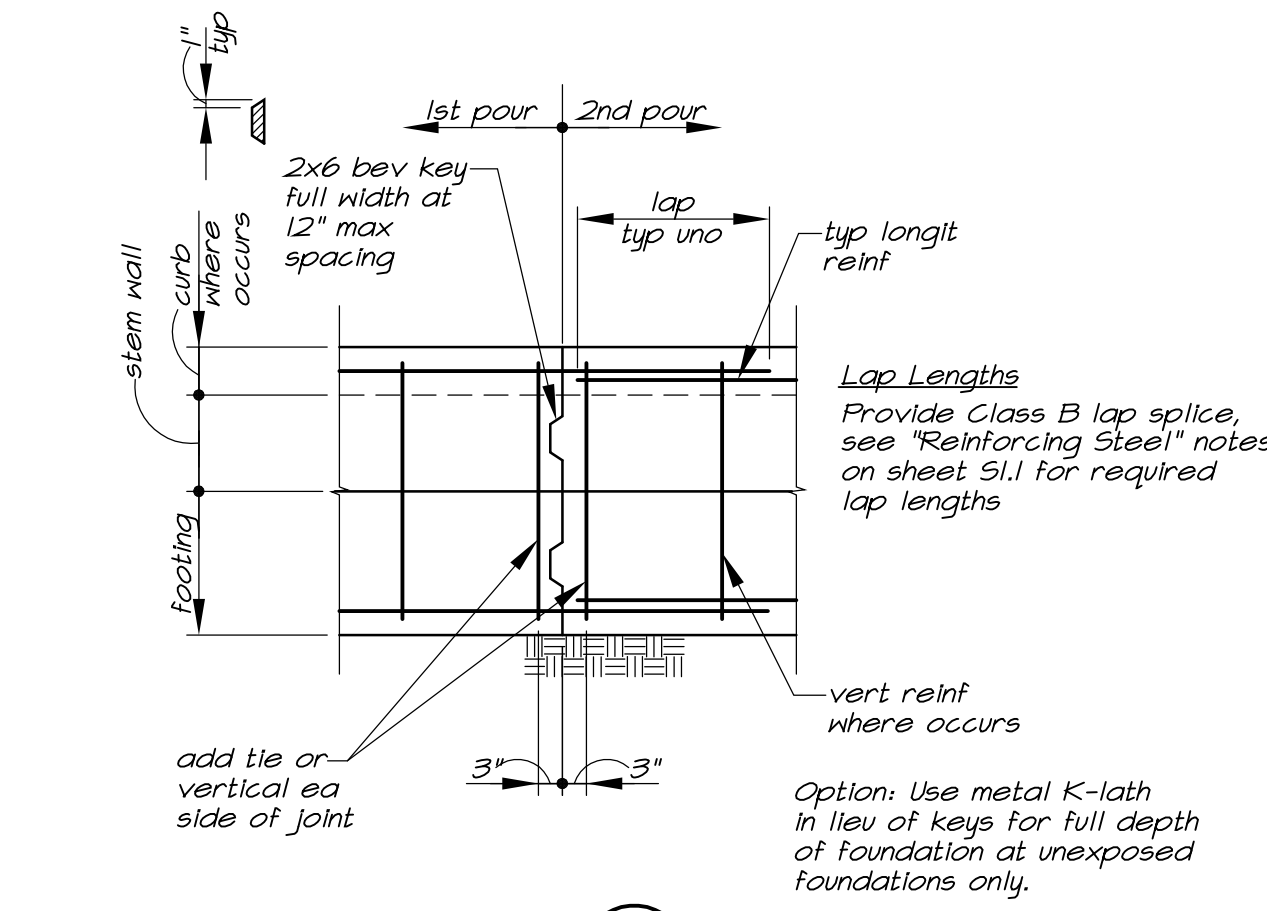
2 Rebar Hooks & Bends 5/1.3 3/8"=1'-0"

Note: 1. Foundation concrete may be placed directly into neat excavations provided the foundation trench walls are stable as determined by the Architect (Structural Engineer) subject to the approval of the Division of the State Architect. In such case the minimum formwork shown above is mandatory to insure clean excavations.  
 2. Stakes not permitted within footing section.

3 Mandatory Minimum Formwork 5/1.3 (unless fully formed)



4 Slab-On-Grade Joints 5/1.3 3/8"=1'-0"



5 Typical Foundation Construction Joint 5/1.3 1 1/2"=1'-0"

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KEY PLAN

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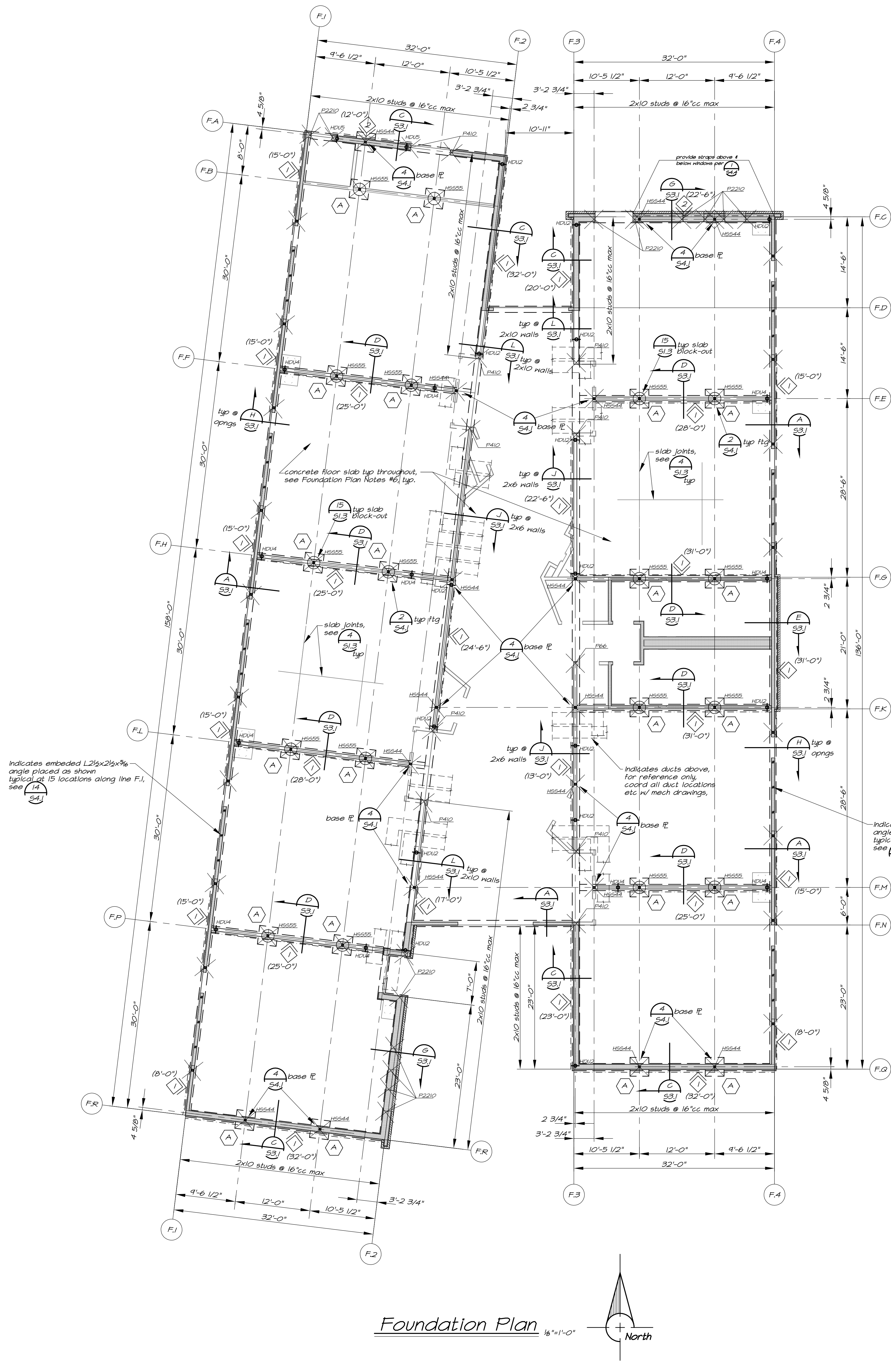
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Typical Details

Date: 05/20/2019  
 Scale: AS NOTED  
 Project Number: 19003.2  
 Drawing Number: S1.3





Shearwall Schedule (1) SF2.1									
MK	Sheathing Material	Sheathing Edge Nailing (common or galvanized box)	Shear Transfer Nailing 16d common #	Shear Transfer Connection A36 clips #	Studs and Blocking at Abutting Panel Edges	5/8" Anchor Bolts	Capacity (kip)		Anchor Bolt Plate washer Detail
							Seismic	Wind	
(1) S1.1	¾" Struct I	10d @ 6"cc	4"cc	24"cc	2x	3'-4"cc	340	475	(14) S1.2
(2) S1.2	¾" Struct I	10d @ 4"cc	3"cc	16"cc	3x or 2-2x	2'-3"cc	510	715	(14) S1.2
(3) S1.3	¾" Struct I	10d @ 3"cc	2½"cc	12"cc	3x	1'-9"cc	665	930	(14) S1.2
(4) S1.4	¾" Struct I	10d @ 2"cc	2 rows of nails @ 3½"cc staggered	9"cc	3x	1'-4"cc	870	1218	(14) S1.2

Notes:

- Field nailing (nailing to intermediate framing members) to be 10d common or galvanized box nails spaced as follows:
  - 6"cc where framing members are spaced at 24"cc
  - 12"cc where framing members are spaced at 16"cc
- Holdown bolts shall not be considered to replace (or act as) anchor bolts.
- For anchor bolt details see (12) S1.3
- All anchor bolts at shearwalls shall have plate washers per the details specified in the shearwall schedule above. Anchor bolts at non-shearwalls shall have standard cut washers between the wood sill plate and the nut.
- If not indicated otherwise, nail sheathing at walls per (14) S1.2
- Nailing at abutting panel edges at 3x members (and 2-2x members, as permitted by the shearwall schedule) shall be staggered. Nails shall be located at least ¾" from panel edges and ¾" from the framing member edges.
- All sill plate nailing shall be staggered and nails shall be located at least ¾" from panel edges and ¾" from the framing member edges.
- Nails shall have the following minimum dimensions (measured before application of any protective coatings):

Nail	Diameter	Length
10d common	0.148"	3"
10d box	0.128"	3"

Galvanized nails shall be hot dipped or tumbled
- Where permitted by the shearwall schedule above, 2-2x studs and blocking used at abutting panel edges shall be nailed together with "Shear Transfer Nailing" as specified in the schedule above.
- Where the extent of shear wall does not coincide with the entire extent of adjacent wall faces, provide sheetrock or wood turning such that the substrate for the finishes is flush.

Footing Schedule (2) SF2.1			
MK	Size	Thickness (Depth)	Reinforcing
(A)	3'-0" square	24"	4-#5 ea way bottom

- Indicates shearwall type and minimum shearwall length, see Shearwall Schedule on this sheet.
- Indicates Simpson holdowns as follows:

Mark	Holdown	Mark	Holdown
HDU2	HDU2-SD52.5		
HDU4	HDU4-SD52.5		
HDU5	HDU5-SD52.5		

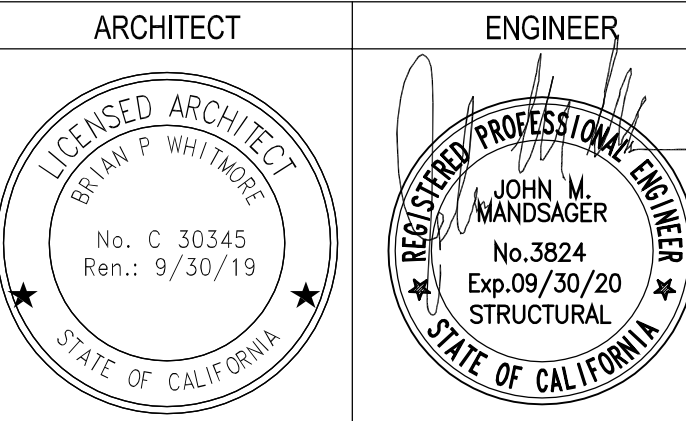
see (12) S4.1, (13) S4.1
- For typical pipe/conduit penetrations through footings, see (6) S1.3
- Unless otherwise designated as shearwalls, all exterior wood walls shall be sheathed with 15/32" CDX sheathing nailed with 10d @ 6"cc at edges and 10d @ 12" cc at field, typical. See the plan for those walls designated as shearwalls.
- All interior non-bearing partition walls are to be built full-height to the bottom of the roof framing and connected per detail (8) S1.2
- Indicates raised concrete curbs, see sections for details of construction. Coordinate/verify locations and extents w/ Arch'l drawings.
- (A) indicates concrete footings, see Footing Schedule on this sheet.
- Exterior walls shall be 2x6 @ 16"cc, typical unless noted or shown otherwise.
- All HSS columns in walls shall be provided with nailers per (17) S1.3
- All HSS columns in shearwalls, and at the ends of shearwalls, shall be provided with nailers per note #15 above. Further, the shearwall sheathing shall be edge-nailed full-ht to the nailer.

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- CONSTRUCTION
- DATE  
12/20/2019

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WESTACRE ROAD  
WEST SACRAMENTO, CA 95691

CONSTRUCTION DOCUMENTS

WESTMORE OAKS  
ELEMENTARY  
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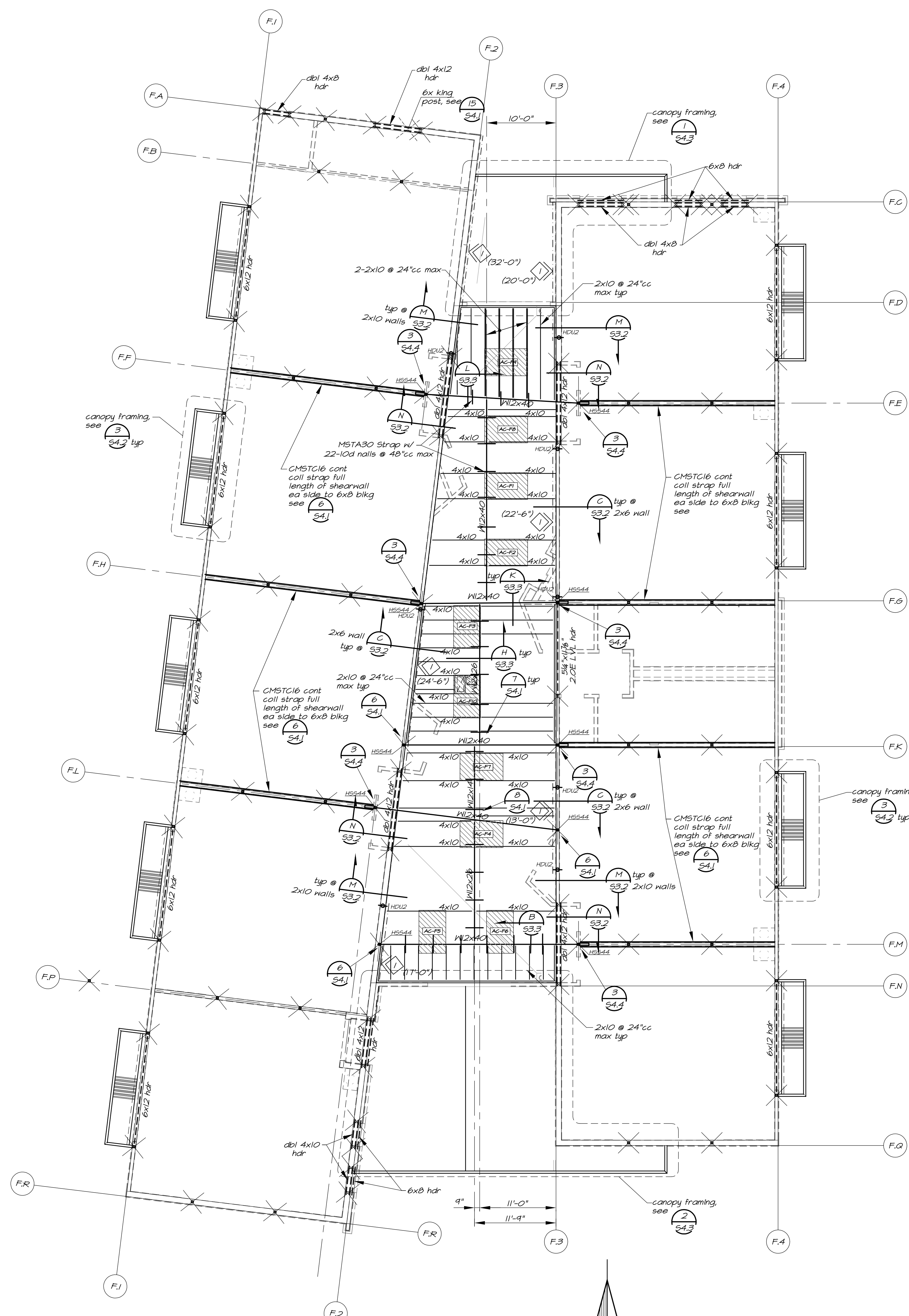
Building F-  
Foundation Plan

Date  
05/20/2019  
Scale  
AS NOTED  
Project Number  
19003.2

Drawing Number

SF2.1





Lower Roof Framing Plan

1/8"=1'-0"

Roof Framing Plan Notes:

- Coordinate all dimensions with architectural drawings. Notify Architect of any discrepancies for resolution prior to proceeding.
- See sheet S1.1 thru S1.3 for typical notes and details. These notes and details apply to all construction unless noted or detailed otherwise.
- Typical roof sheathing shall be 5/8" Structural I APA-rated sheathing (span rating=32/16), nailed with 10d nails @ 6"cc at supported edges and 12"cc at field. Stagger panels typical as shown. All panels shall have a minimum width of 24".
- For post and beam connections in walls see S1.2, otherwise provide all posts with PC/EPC post caps.
- Posts and columns:
  - AJ indicates wood posts typical uno. See plan for sizes.
  - BJ indicates steel HSS or pipe columns, as occurs. See plan for sizes.
  - CJ Unless noted otherwise, support all 4x beams on 4x6 posts and all 6x and 5 1/2"x beams on 6x6 posts
  - DJ Posts shall be of lumber grades as specified on sheet S1.1 unless noted otherwise on the plans or in the schedule above.
  - EJ Wood Post & Steel Column Schedule:

Mark	Post Size	Mark	Column Size
F226	2-2x6	H5544	H554x4x14"
F228	2-2x8	H5555	H555x5x14"
F2210	2-2x10		
F46	4x6		
F66	6x6		

6. Unless otherwise noted, where hangers are required, use hangers as follows:

Member	Hanger Series (no slope)	Sloped Hanger Series
4x10	LV5410	HU410
2x, 2-2x	LVS	U
Other 4x & 6x	HU	HU

- For typical stud connections, see "Nailing Schedule" on sheet S1.1.
- All exterior wood walls to be sheathed with 15/32" Struct I sheathing nailed with 10d @ 6"cc at edges and 12d @ 12" cc at field, typical, unless noted otherwise in the shearnail schedule.
- Provide 2x10 at bottom of double headers per S1.3.

10. Indicates mechanical units. Coordinate/verify locations with mechanical drawings typ.

Unit/s	Weight
AC-F1 thru AC-F10	1200 lbs.

11. (X'-X') indicates shearnail type and minimum shearnail length, see Shearnail Schedule

Mark	Holdown	Mark	Holdown
HDU2	HDU2-SDS2.5		

see S1.2

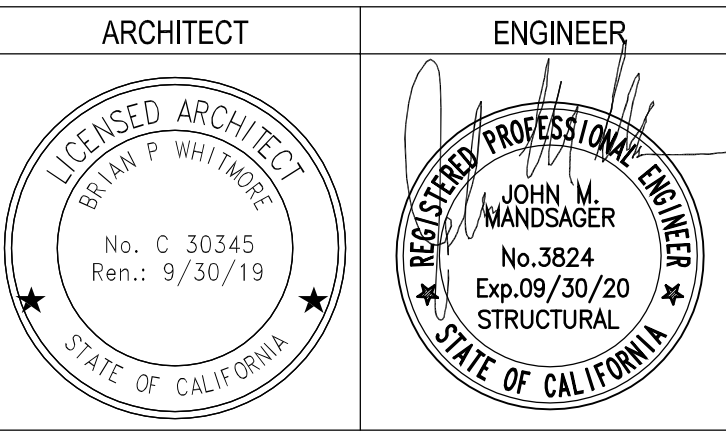
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SCHOOL DISTRICT  
930 WESTACRE ROAD  
WEST SACRAMENTO, CA 95691

CONSTRUCTION DOCUMENTS

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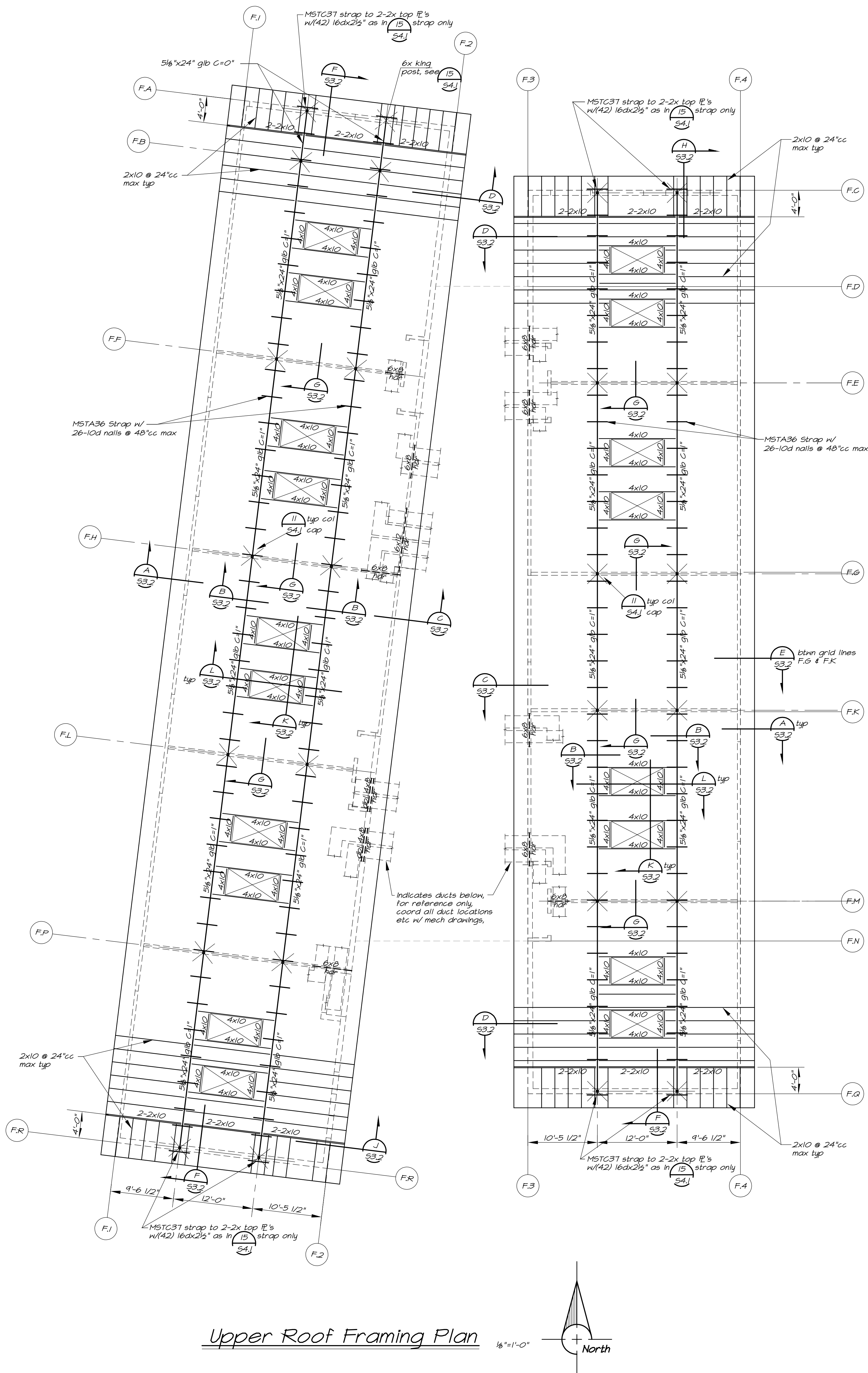
Building F-  
Roof Framing Plans

Date 05/20/2019 Drawing Number

Scale AS NOTED

Project Number 19003.2

**SF2.2**



Roof Framing Plan Notes:

- Coordinate all dimensions with architectural drawings. Notify Architect of any discrepancies for resolution prior to proceeding.
- See sheet S1.1 thru S1.3 for typical notes and details. These notes and details apply to all construction unless noted or detailed otherwise.
- Typical roof sheathing shall be 5/8" Structural I APA-rated sheathing (span rating=52/16), nailed with 10d nails @ 6" cc at supported edges and 12" cc at field. Stagger panels typical as shown. All panels shall have a minimum width of 24".
- For post and beam connections in walls see (S1.3), otherwise provide all posts with PC/EFC post caps.
- Posts and columns:
  - A) Indicates wood posts typical uno. See plan for sizes.
  - B) Indicates steel HSS or pipe columns, as occurs. See plan for sizes.
  - C) Unless noted otherwise, support all 4x6 beams on 4x6 posts and all 6x and 5/8"x beams on 6x6 posts.
  - D) Posts shall be of lumber grades as specified on sheet S1.1 unless noted otherwise on the plans or in the schedule above.
  - E) Wood Post & Steel Column Schedule:

Mark	Post Size	Mark	Column Size
F226	2-2x6	H5544	H554x4x14"
F228	2-2x8	H5555	H555x5x14"
F2210	2-2x10		
F46	4x6		
F66	6x6		

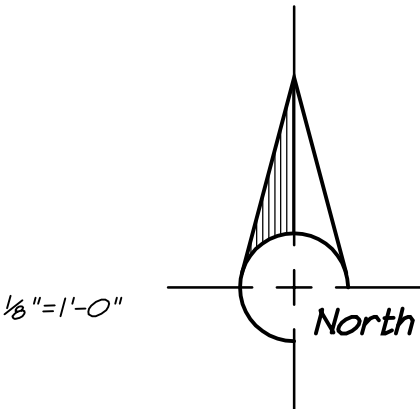
6. Unless otherwise noted, where hangers are required, use hangers as follows:

Member	Hanger Series (no slope)	Sloped Hanger Series
4x10	LUS410	HU410
2x, 2-2x	LUS	U
Other 4x & 6x	HU	HU

- For typical stud connections, see "Nailing Schedule" on sheet S1.1.
- All exterior wood walls to be sheathed with 15/32" Struct I sheathing nailed with 10d @ 6" cc at edges and 10d @ 12" cc at field, typical, unless noted otherwise in the shearnall schedule.
- Provide 2x10 at bottom of double headers per (S1.3)

Upper Roof Framing Plan

1/8"=1'-0"



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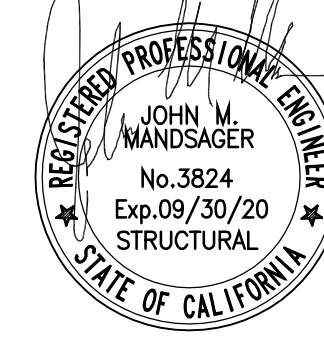
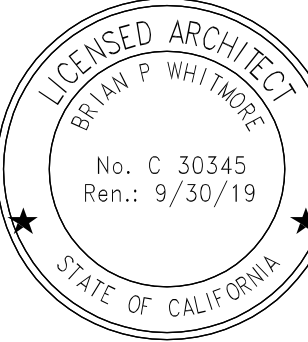
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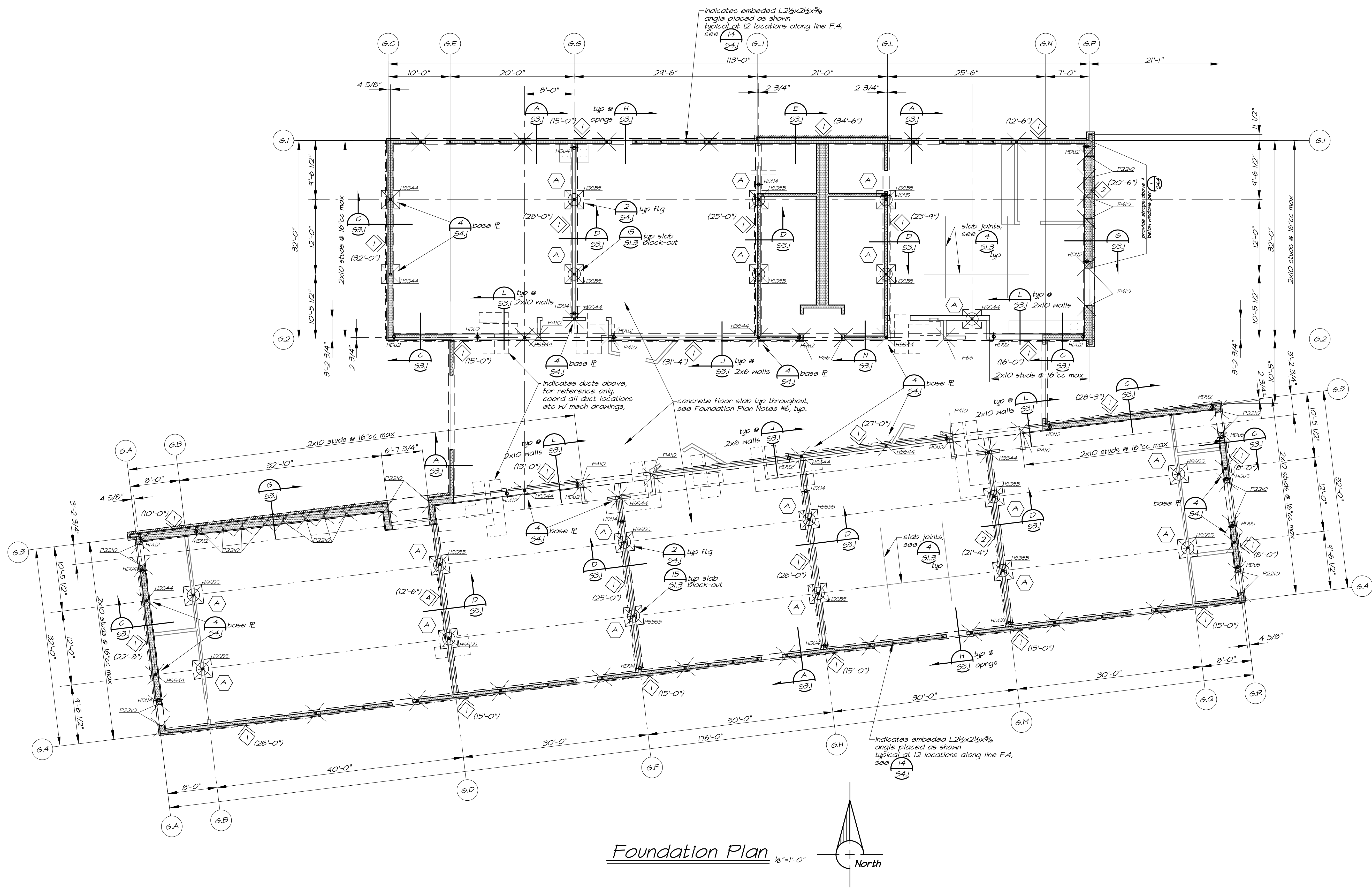
Building F-  
Roof Framing Plans

Date  
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Scale  
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Project Number  
19003.2

Drawing Number

SF2.3





Foundation Plan 1/8"=1'-0" North

### Shearwall Schedule

MK	Sheathing Material	Sheathing Edge Nailing (Common or galvanized box)	Shear Transfer Nailing (Common or galvanized box)	Shear Transfer Connector (A35 clips)	Studs and Blocking at Abutting Panel Edges	5/8" Anchor Bolts	Capacity (kip)		Anchor Bolt Plate Washer Detail
							Seismic	Wind	
1	3/4" Struct I	10d @ 6"cc	4"cc	24"cc	2x	3'-4"cc	340	475	14 S1.2
2	3/4" Struct I	10d @ 4"cc	3"cc	16"cc	3x or 2-2x	2'-3"cc	510	715	14 S1.2
3	3/4" Struct I	10d @ 3"cc	2 1/2"cc	12"cc	3x	1'-9"cc	665	930	14 S1.2
4	3/4" Struct I	10d @ 2"cc	2 rows of nails @ 3"cc staggered	9"cc	3x	1'-4"cc	870	1218	14 S1.2

#### Notes:

- Field nailing (nailing to intermediate framing members) to be 10d common or galvanized box nails spaced as follows:
  - 6"cc where framing members are spaced at 24"cc
  - 12"cc where framing members are spaced at 16"cc
- Holdown bolts shall not be considered to replace (or act as) anchor bolts.
- For anchor bolt details see S1.3
- All anchor bolts at shearwalls shall have plate washers per the details specified in the shearwall schedule above. Anchor bolts at non-shearwalls shall have standard cut washers between the wood sill plate and the nut.
- If not indicated otherwise, nail sheathing at walls per S1.1
- Nailing at abutting panel edges at 3x members (and 2-2x members, as permitted by the shearwall schedule) shall be staggered. Nails shall be located at least 3/8" from panel edges and 3/8" from the framing member edges.
- All sill plate nailing shall be staggered and nails shall be located at least 3/8" from panel edges and 3/8" from the framing member edges.
- Nails shall have the following minimum dimensions (measured before application of any protective coatings):

Nail	Plumeler	Length
10d common	0.148"	3"
10d box	0.128"	3"

Galvanized nails shall be hot dipped or tumbled.
- Where permitted by the shearwall schedule above, 2-2x studs and blocking used at abutting panel edges shall be nailed together with "Shear Transfer Nailing" as specified in the schedule above.
- Where the extent of shear wall does not coincide with the entire extent of adjacent wall faces, provide sheetrock or wood furring such that the substrate for the finishes is flush.

### Footing Schedule

MK	Size	Thickness (Depth)	Reinforcing
A	3'-0" square	24"	4-#5 ea way bottom

#### Foundation Plan Notes:

- Coordinate all dimensions with architectural drawings. Notify Architect of any discrepancies for resolution prior to proceeding.
- See sheet S1.1 thru S1.3 for typical notes and details. These notes and details apply to all construction unless noted or detailed otherwise.
- Posts and columns:
  - Indicates wood posts typical uno. See plan for sizes.
  - Indicates steel HSS or pipe columns. See plan for sizes.
  - Unless noted otherwise, support all 4x beams on 4x6 posts and all 6x and 5 1/2"x beams on 6x6 posts.
  - Posts shall be of lumber grades as specified on sheet S1.1 unless noted otherwise on the plans or in the schedule above.
  - Wood Post & Steel Column Schedule:

Mark	Post Size	Mark	Column Size
P22B	2-2x6	H5544	H554x4x1/4"
P22B	2-2x8	H5555	H555x5x1/4"
P2210	2-2x10		
P46	4x6		
P66	6x6		
  - All anchor bolts, holdown bolts, straps and other hardware embedded in concrete must be securely tied in place prior to foundation inspection.
  - Dimensions shown are to face-of-stud (FS) unless noted otherwise. Dimensions to face-of-concrete (FC) for formwork purposes shall be coordinated with the structural sections and the architectural drawings.
  - Construction of concrete floor slabs shall conform to the following:
    - Subgrade soils shall be prepared in strict accordance with the Geotechnical Report.
    - Floor slabs shall be cast directly onto a 10 mil. vapor barrier. The vapor barrier should be properly lapped and sealed as well as sealed around all plumbing lines, conduits, and other openings.
    - The vapor barrier shall be placed directly over a 4" thick capillary break consisting of free-draining washed, crushed, compacted rock. The crushed rock shall be graded such that 100% passes a 3/4" sieve and less than 5% passes the No. 4 sieve. Compact the crushed rock with at least two passes of a vibratory type compactor.
    - All concrete floor slabs shall be 5 inches thick and shall be reinforced with #4 bars at 18 inches on center each direction placed at mid-depth of the slab.
    - Provide joints in the concrete floor slabs per S1.3. A slab joint plan shall be submitted to the Architect for approval prior to casting the slabs.
- Indicates shearwall type and minimum shearwall length, see Shearwall Schedule on this sheet.
- Indicates Simpson holdowns as follows:

Mark	Holdown	Mark	Holdown
HD12	HD12-SDS2.5		
HD14	HD14-SDS2.5		
HD15	HD15-SDS2.5		

see S1.1, S1.2, S1.3
- For typical pipe/conduit penetrations through footings, see S1.3
- Unless otherwise designated as shearwalls, all exterior wood walls shall be sheathed with 15/32" CDX sheathing nailed with 10d @ 6"cc at edges and 10d @ 12" cc at field, typical. See the plan for those walls designated as shearwalls.
- All interior non-bearing partition walls are to be built full-height to the bottom of the roof framing and connected per detail S1.2
- Indicates raised concrete curbs, see sections for details of construction. Coordinate/verify locations and extents w/ Arch'd drawings.
- Indicates concrete footings, see Footing Schedule on this sheet.
- Exterior walls shall be 2x6 at 16"cc, typical unless noted or shown otherwise.
- All HSS columns in walls shall be provided with nailers per S1.3
- All HSS columns in shearwalls, and at the ends of shearwalls, shall be provided with nailers per note #15 above. Further, the shearwall sheathing shall be edge-nailed full-ht to the nailer.

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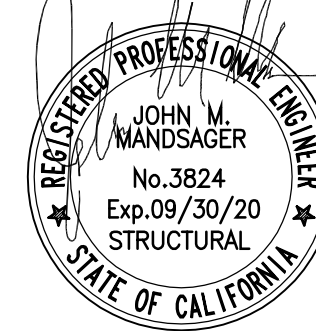
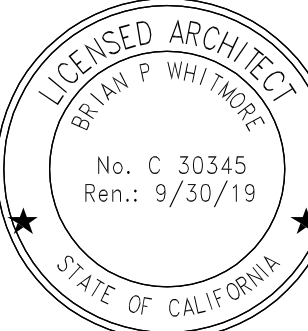
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#### KEY PLAN

WASHINGTON UNIFIED  
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930 WESTACRE ROAD  
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#### CONSTRUCTION DOCUMENTS

WESTMORE OAKS  
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1504 FALLBROOK ST.  
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95691

Building G-  
Foundation Plan

Date  
05/20/2019

Drawing Number

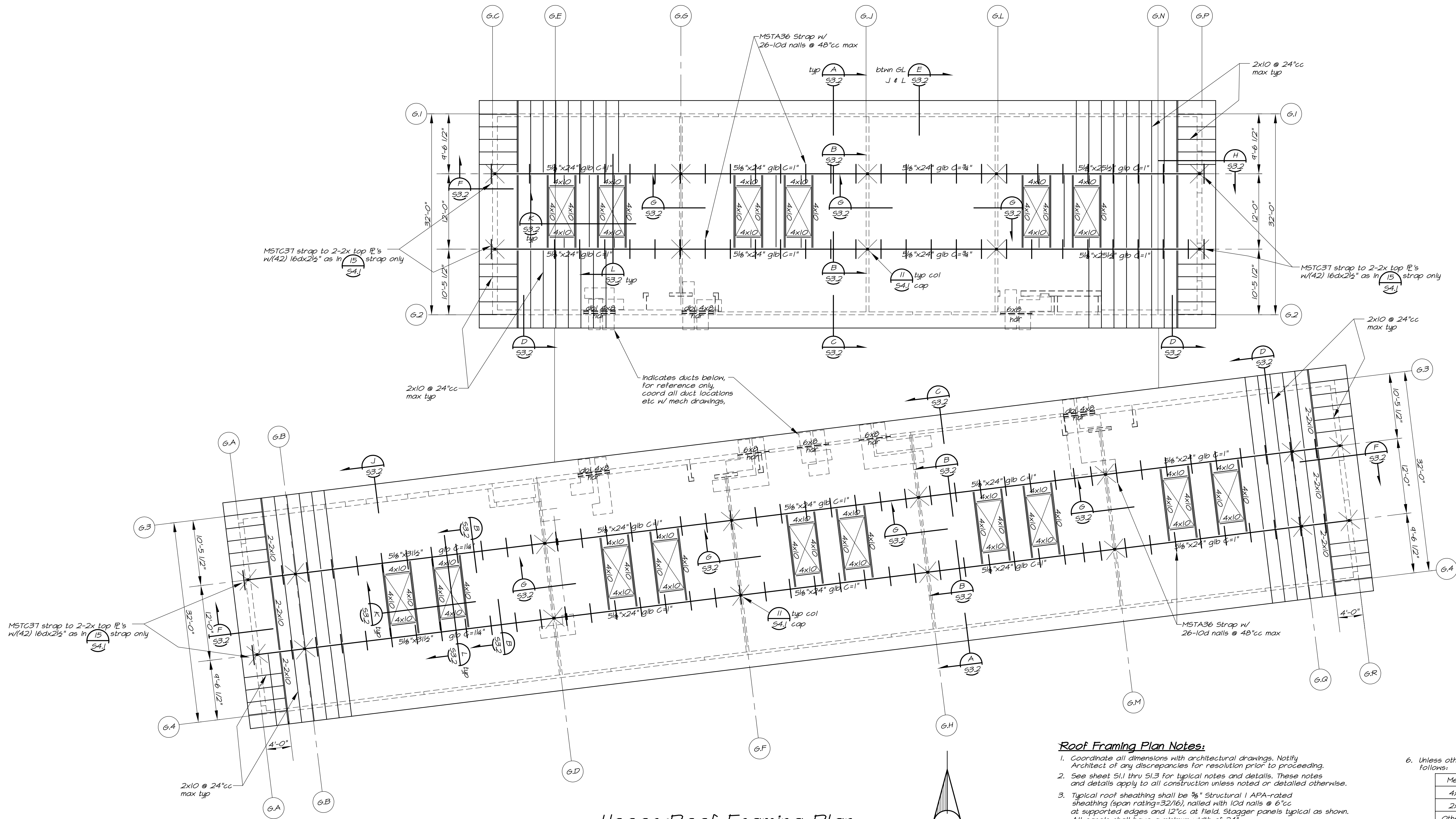
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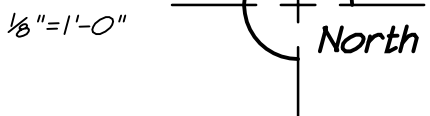
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Upper Roof Framing Plan



Roof Framing Plan Notes:

- Coordinate all dimensions with architectural drawings. Notify Architect of any discrepancies for resolution prior to proceeding.
- See sheet S1.1 thru S1.3 for typical notes and details. These notes and details apply to all construction unless noted or detailed otherwise.
- Typical roof sheathing shall be 1/2" structural I APA-rated sheathing (span rating=32/16), nailed with 10d nails @ 6" cc at supported edges and 12" cc at field. Stagger panels typical as shown. All panels shall have a minimum width of 24".
- For post and beam connections in walls see (5) S1.2, otherwise provide all posts with PC/EPC post caps.
- Posts and columns:  
A) Indicates wood posts typical uno. See plan for sizes.  
B) Indicates steel HSS or pipe columns, as occurs. See plan for sizes.  
C) Unless noted otherwise, support all 4x beams on 4x6 posts and all 6x and 5 1/2"x beams on 6x6 posts.  
D) Posts shall be of lumber grades as specified on sheet S1.1 unless noted otherwise on the plans or in the schedule above.  
E) Wood Post & Steel Column Schedule:

Mark	Post Size	Mark	Column Size
P2226	2-2x6	HSS44	HSS4x4x1/4"
P2228	2-2x8	HSS55	HSS5x5x1/4"
P2210	2-2x10		
P46	4x6		
P66	6x6		

Member	Hanger Series (no slope)	Sloped Hanger Series
4x10	LUS410	HU410
2x, 2-2x	LUS	U
Other 4x & 6x	HU	HU

- For typical stud connections, see "Nailing Schedule" on sheet S1.1.
- All exterior wood walls to be sheathed with 15/32" Struct I sheathing nailed with 10d @ 6" cc at edges and 10d @ 12" cc at field, typical, unless noted otherwise in the shearwall schedule.
- Provide 2x10 at bottom of double headers per (16) S1.3

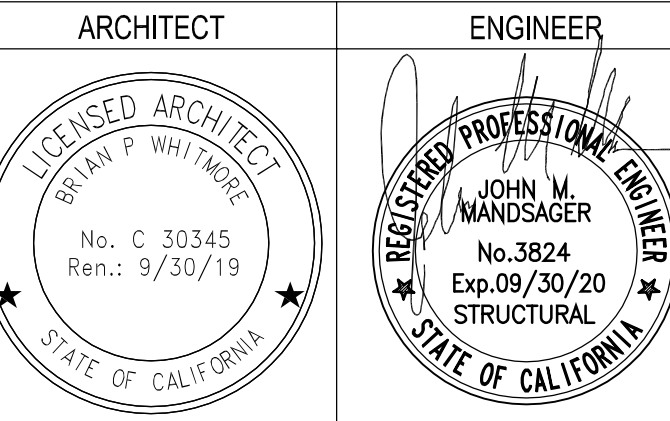
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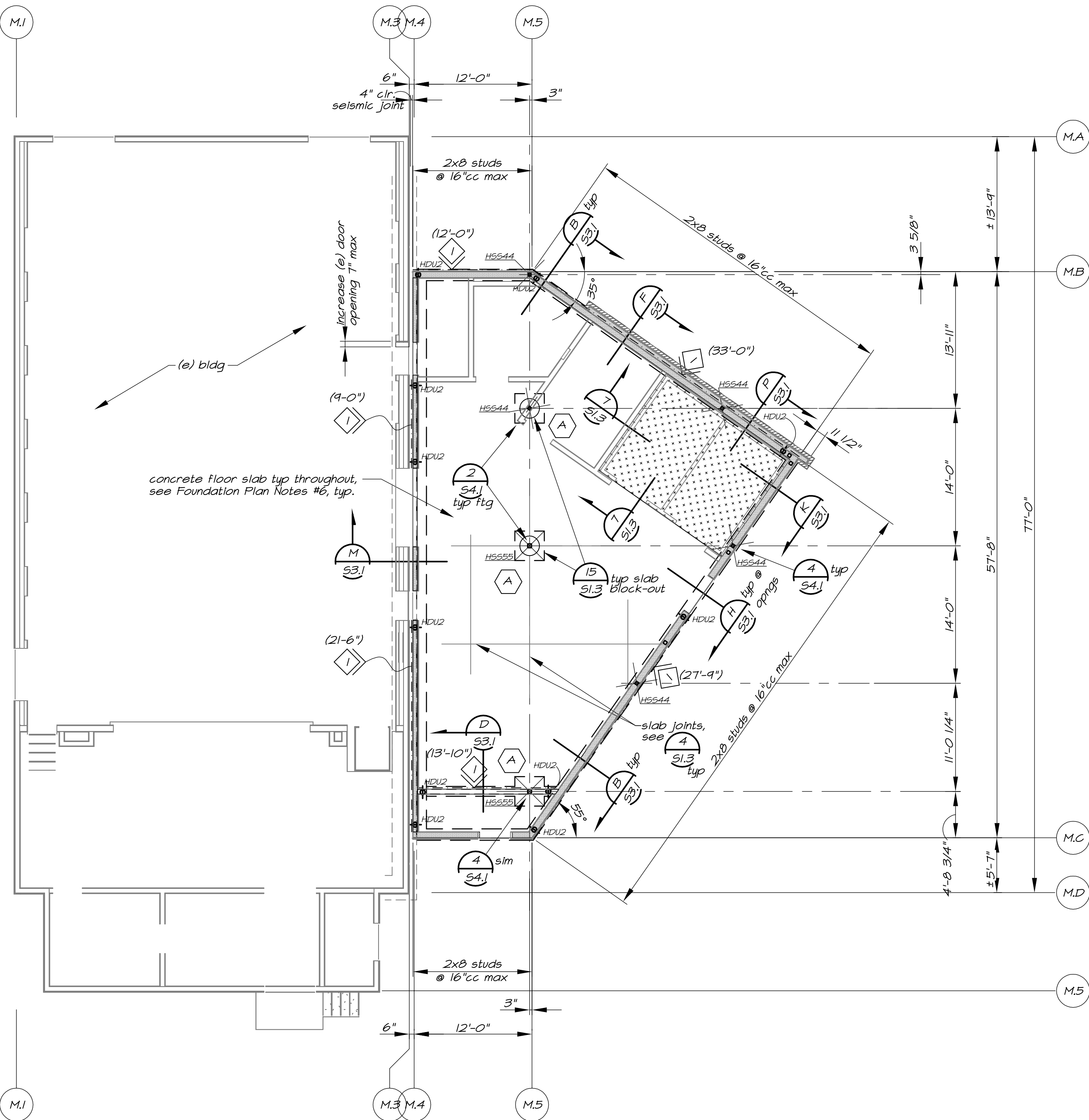
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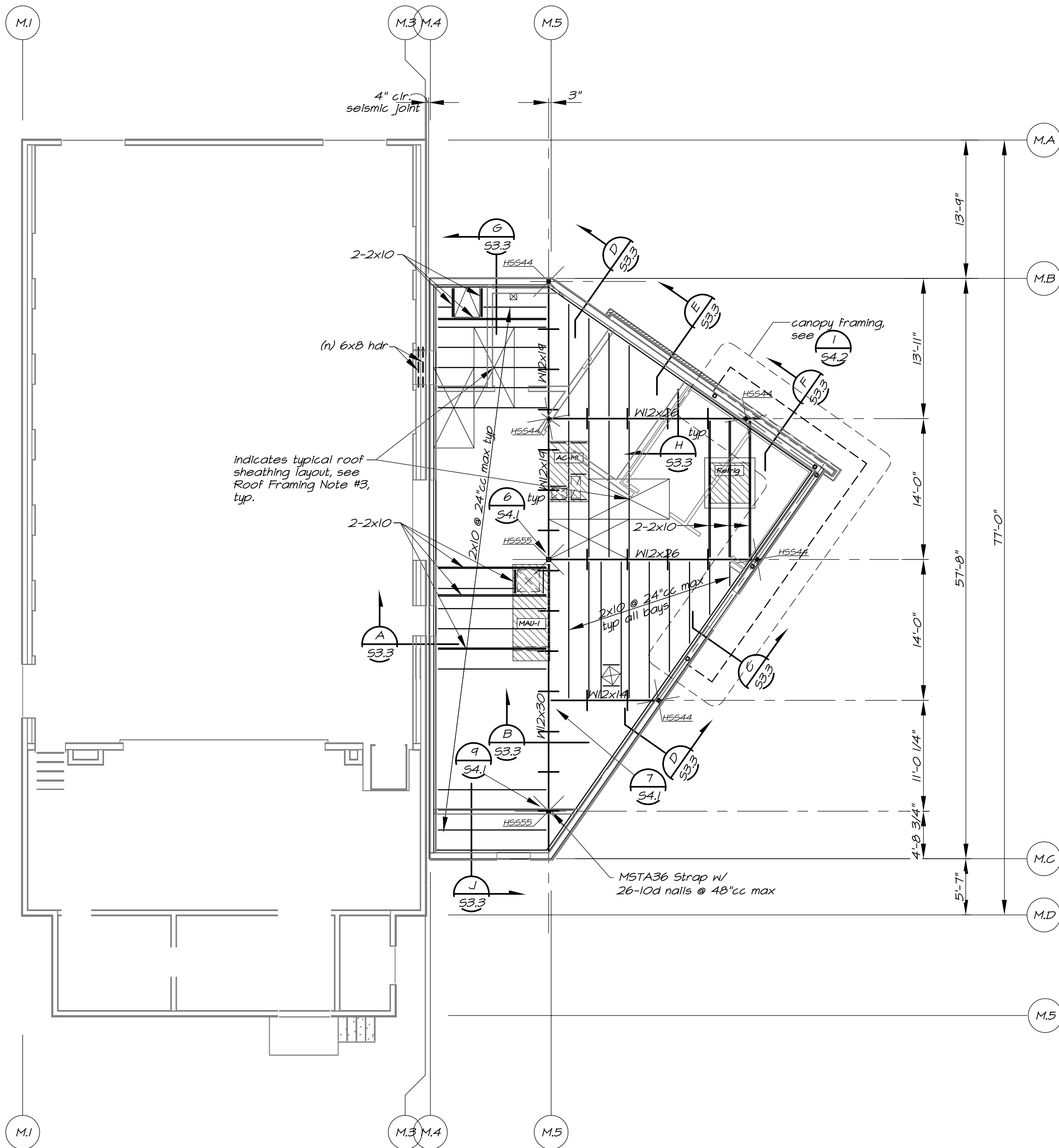
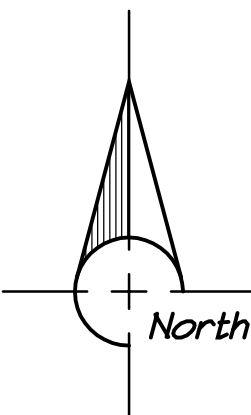
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Building G-  
Upper Roof Framing Plan

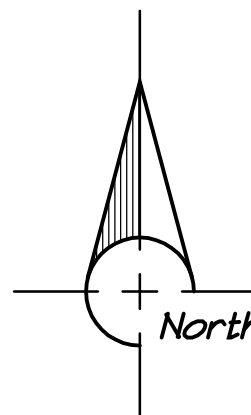
Date 05/20/2019	Drawing Number
Scale AS NOTED	SG2.3
Project Number 19003.2	



Foundation Plan 1/8"=1'-0"



Roof Framing Plan 1/8"=1'-0"



#### Foundation Plan Notes:

- Coordinate all dimensions with architectural drawings. Notify Architect of any discrepancies for resolution prior to proceeding.
- See sheet S1.1 thru S1.3 for typical notes and details. These notes and details apply to all construction unless noted or detailed otherwise.
- Posts and columns:
  - Indicates wood posts typical uno. See plan for sizes.
  - Indicates steel HSS or pipe columns. See plan for sizes.
  - Unless noted otherwise, support all 4x beams on 4x6 posts and all 6x and 5 1/2"x beams on 6x6 posts.
  - Posts shall be of lumber grades as specified on sheet S1.1 unless noted otherwise on the plans or in the schedule above.
  - Wood Post & Steel Column Schedule:

Mark	Post Size	Mark	Column Size
P226	2-2x6	H5544	H554x4x1/4"
P228	2-2x8	H5555	H555x5x1/4"
P2210	2-2x10		
P46	4x6		
P66	6x6		
  - All anchor bolts, holdown bolts, straps and other hardware embedded in concrete must be securely tied in place prior to foundation inspection.
  - Dimensions shown are to face-of-stud (FS) unless noted otherwise. Dimensions to face-of-concrete (FC) for formwork purposes shall be coordinated with the structural sections and the architectural drawings.
  - Construction of concrete floor slabs shall conform to the following:
    - Subgrade soils shall be prepared in strict accordance with the Geotechnical Report.
    - Floor slabs shall be cast directly onto a 10 mil. vapor barrier.
    - The vapor barrier should be properly lapped and sealed as well as sealed around all plumbing lines, conduits, and other openings.
    - The vapor barrier shall be placed directly over a 4" thick capillary break consisting of free-draining washed, crushed, compacted rock. The crushed rock shall be graded such that 100% passes a 3/4" sieve and less than 5% passes the No. 4 sieve. Compact the crushed rock with at least two passes of a vibratory type compactor.
    - All concrete floor slabs shall be 5 inches thick and shall be reinforced with #4 bars at 18 inches on center each direction placed at mid-depth of the slab.
    - Provide joints in the concrete floor slabs per S1.1. A slab joint plan shall be submitted to the Architect for approval prior to casting the slabs.

Shearwall Schedule <span>(1/8"=1'-0")</span>																		
Mk	Sheathing Material	Sheathing Edge Nailing (common or galvanized box)	Shear Transfer Nailing 1st common @	Shear Transfer Connection A35 clips @	Studs and Blocking at Abutting Panel Edges	5/8" Bolts	Capacity (kip)		Anchor Bolt Plate washer Detail									
							Seismic	Wind										
1	3/4" Struct I	10d @ 6"cc	4"cc	24"cc	2x	3'-4"cc	340	475	14 S1.2									
2	3/4" Struct I	10d @ 4"cc	3"cc	16"cc	3x or 2-2x	2'-3"cc	510	715	14 S1.2									
3	3/4" Struct I	10d @ 3"cc	2 1/2"cc	12"cc	3x	1'-9"cc	665	930	14 S1.2									
4	3/4" Struct I	10d @ 2"cc	2 rows of nails @ 3 1/2"cc staggered	9"cc	3x	1'-4"cc	870	1218	14 S1.2									
Notes:																		
1. Field nailing (nailing to intermediate framing members) to be 10d common or galvanized box nails spaced as follows: a) 6"cc where framing members are spaced at 24"cc b) 12"cc where framing members are spaced at 16"cc																		
2. Holdown bolts shall not be considered to replace (or act as) anchor bolts.																		
3. For anchor bolt details see <span>(S1.3)</span>																		
4. All anchor bolts at shearwalls shall have plate washers per the details specified in the shearwall schedule above. Anchor bolts at non-shearwalls shall have standard cut washers between the wood sill plate and the nut.																		
5. If not indicated otherwise, nail sheathing at walls per <span>(S1.1)</span>																		
6. Nailing at abutting panel edges at 3x members (and 2-2x members, as permitted by the shearwall schedule) shall be staggered. Nails shall be located at least 3/8" from panel edges and 3/8" from the framing member edges.																		
7. All sill plate nailing shall be staggered and nails shall be located at least 3/8" from panel edges and 3/8" from the framing member edges.																		
8. Nails shall have the following minimum dimensions (measured before application of any protective coatings):																		
<table><tr><th>Nail</th><th>Diameter</th><th>Length</th></tr><tr><td>10d common</td><td>0.148"</td><td>3"</td></tr><tr><td>10d box</td><td>0.128"</td><td>3"</td></tr></table>										Nail	Diameter	Length	10d common	0.148"	3"	10d box	0.128"	3"
Nail	Diameter	Length																
10d common	0.148"	3"																
10d box	0.128"	3"																
Galvanized nails shall be not dipped or tumbled																		
9. Where permitted by the shearwall schedule above, 2-2x studs and blocking used at abutting panel edges shall be nailed together with "Shear Transfer Nailing" as specified in the schedule above.																		
10. Where the extent of shear wall does not coincide with the entire extent of adjacent wall faces, provide sheetrock or wood furring such that the substrate for the finishes is flush.																		

#### Roof Framing Plan Notes:

- Coordinate all dimensions with architectural drawings. Notify Architect of any discrepancies for resolution prior to proceeding.
- See sheet S1.1 thru S1.3 for typical notes and details. These notes and details apply to all construction unless noted or detailed otherwise.
- Typical roof sheathing shall be 3/4" Structural I APA-rated sheathing (span rating=S216), nailed with 10d nails @ 6"cc at supported edges and 12"cc at field. Stagger panels typical as shown. All panels shall have a minimum width of 24".
- For post and beam connections in walls see S1.3, otherwise provide all posts with PC/EPC post caps.
- Posts and columns:
  - Indicates wood posts typical uno. See plan for sizes.
  - Indicates steel HSS or pipe columns, as occurs. See plan for sizes.
  - Unless noted otherwise, support all 4x beams on 4x6 posts and all 6x and 5 1/2"x beams on 6x6 posts.
  - Posts shall be of lumber grades as specified on sheet S1.1 unless noted otherwise on the plans or in the schedule above.
- Wood Post & Steel Column Schedule:

Mark	Post Size	Mark	Column Size
P226	2-2x6	H5544	H554x4x1/4"
P228	2-2x8	H5555	H555x5x1/4"
P2210	2-2x10		
P46	4x6		
P66	6x6		
- Unless otherwise noted, where hangers are required, use hangers as follows:

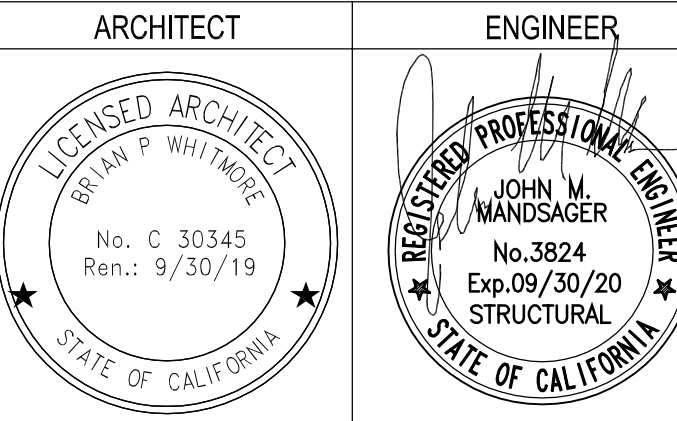
Member	Hanger Series (no slope)	Sloped Hanger Series
4x10	LUS410	HU410
2x, 2-2x	LUS	U
Other 4x & 6x	HU	HU
- For typical stud connections, see "Nailing Schedule" on sheet S1.1.
- All exterior wood walls to be sheathed with 15/32" Struct I sheathing nailed with 10d @ 6"cc at edges and 12" cc at field, typical, unless noted otherwise in the shearwall schedule.
- Provide 2x10 at bottom of double headers per S1.3
- Indicates mechanical units. Coordinate/verify locations with mechanical drawings typ.

Unit/s	Weight
AC-MI	1200 lbs.
MAU-IC	1300 lbs.
Refrig.	400 lbs.

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#### KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
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#### CONSTRUCTION DOCUMENTS

WESTMORE OAKS  
ELEMENTARY  
SCHOOL  
1504 FALLBROOK ST.  
WEST SACRAMENTO, CA  
95691

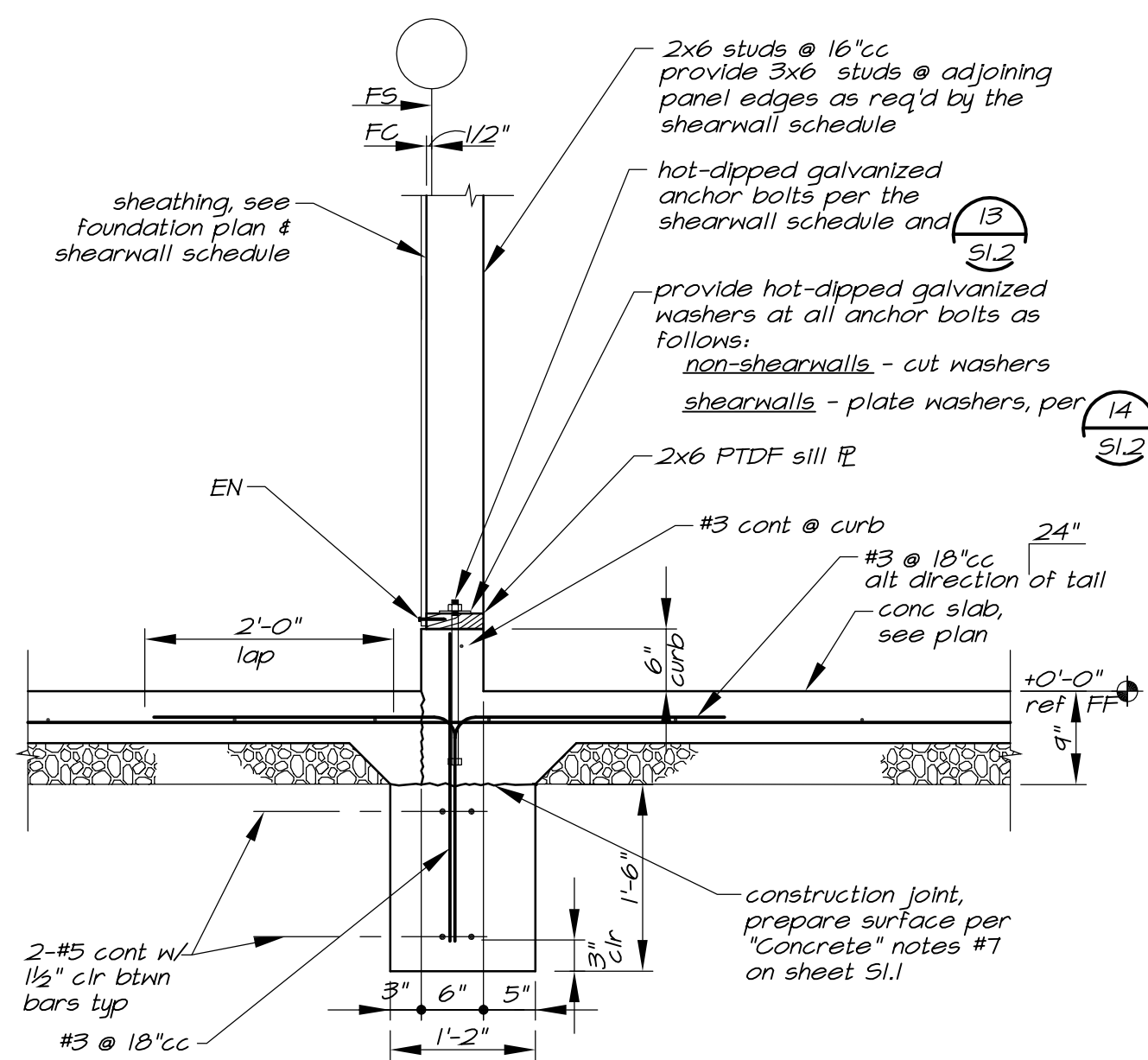
Building M-  
Foundation Plan, and  
Roof Framing Plan

Date  
05/20/2019  
Scale  
AS NOTED  
Project Number  
19003.2

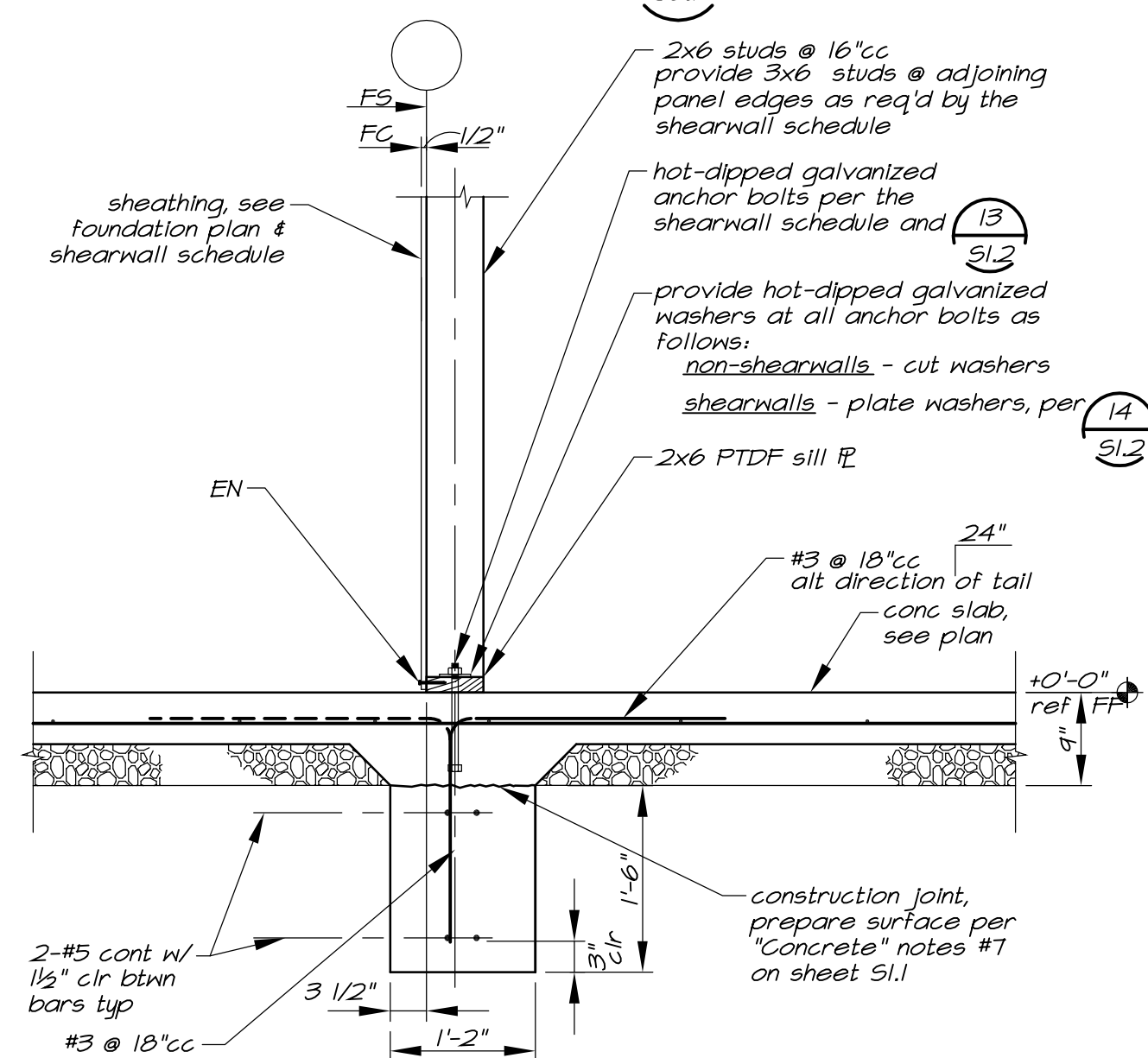
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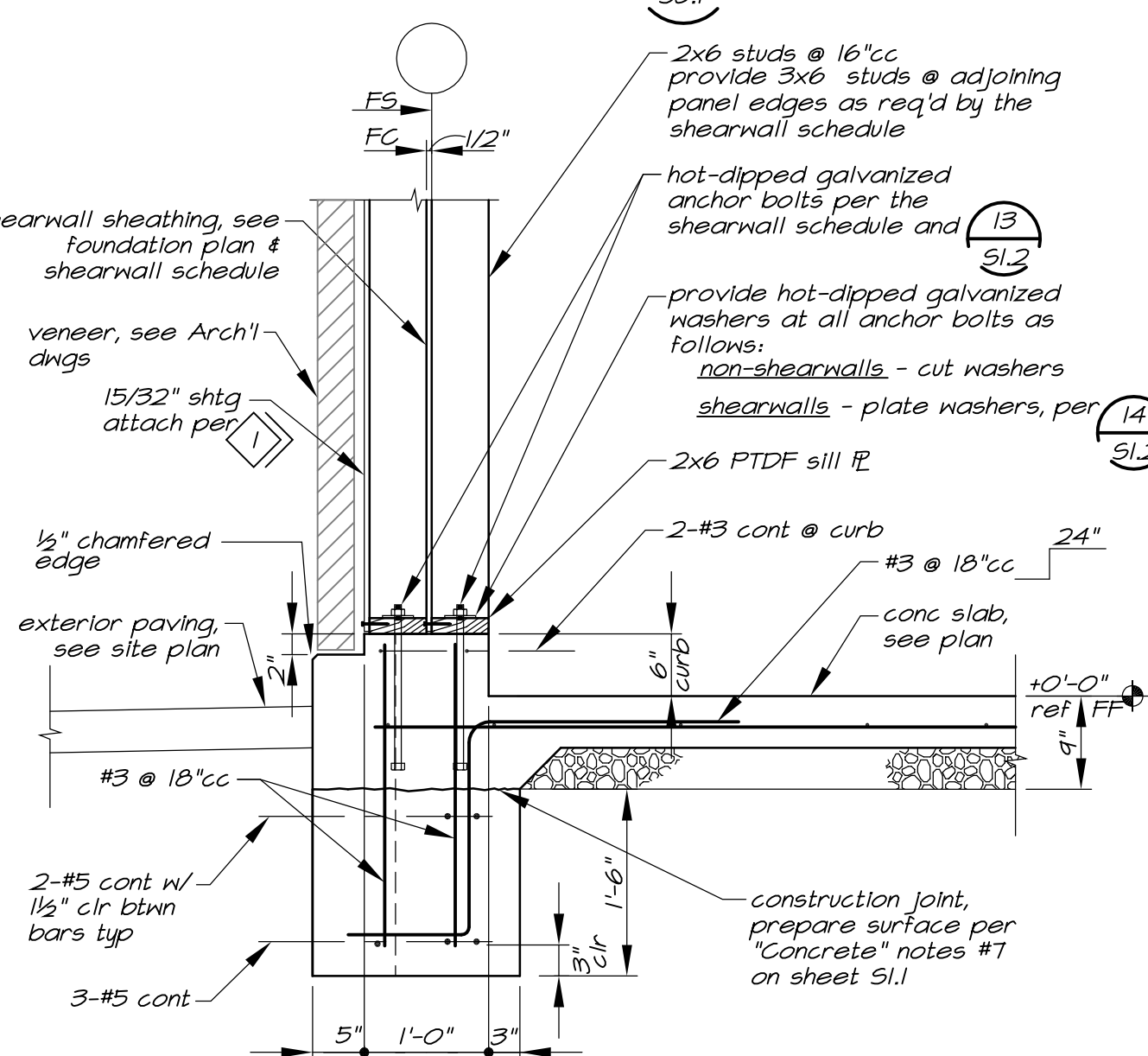




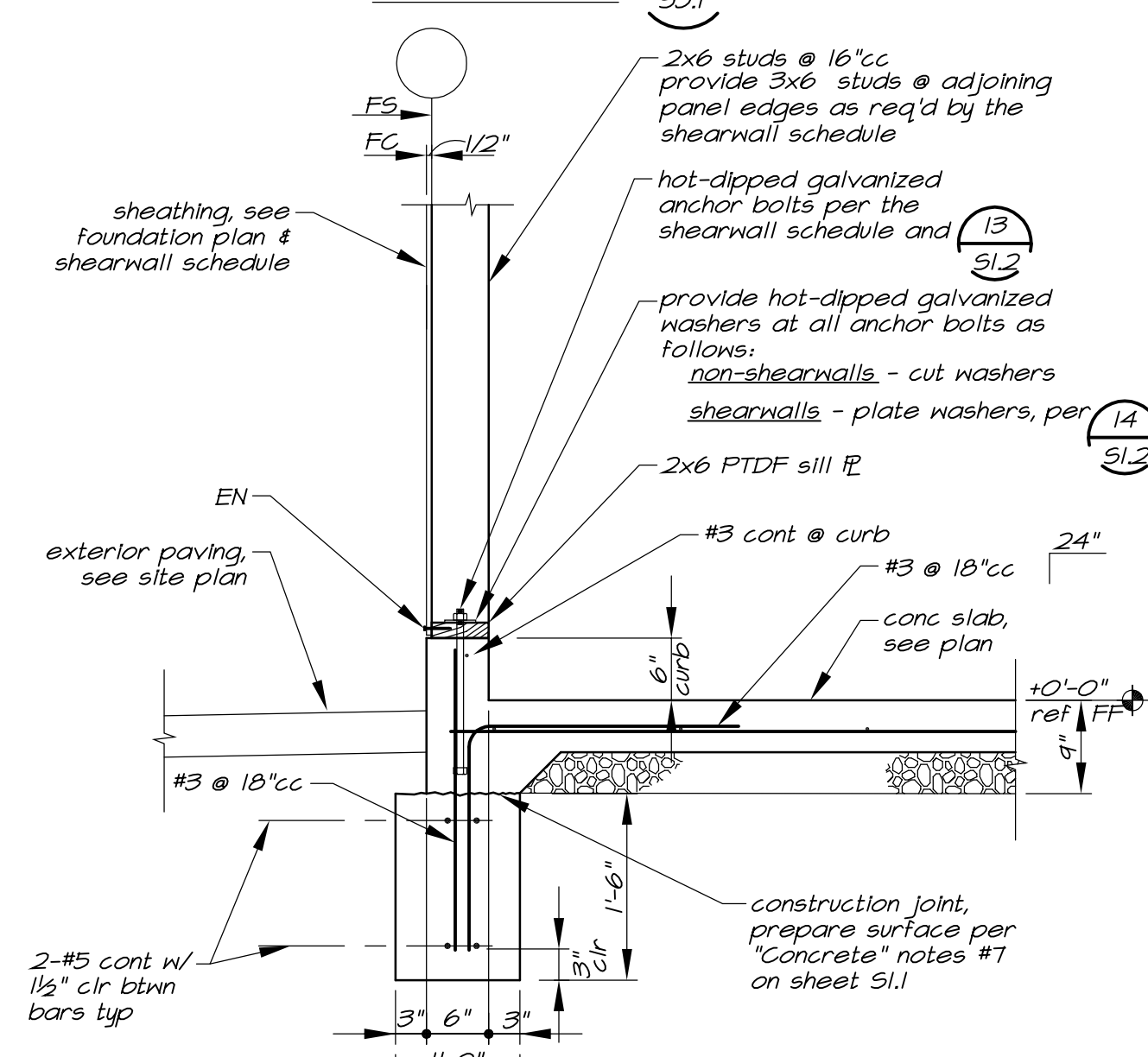
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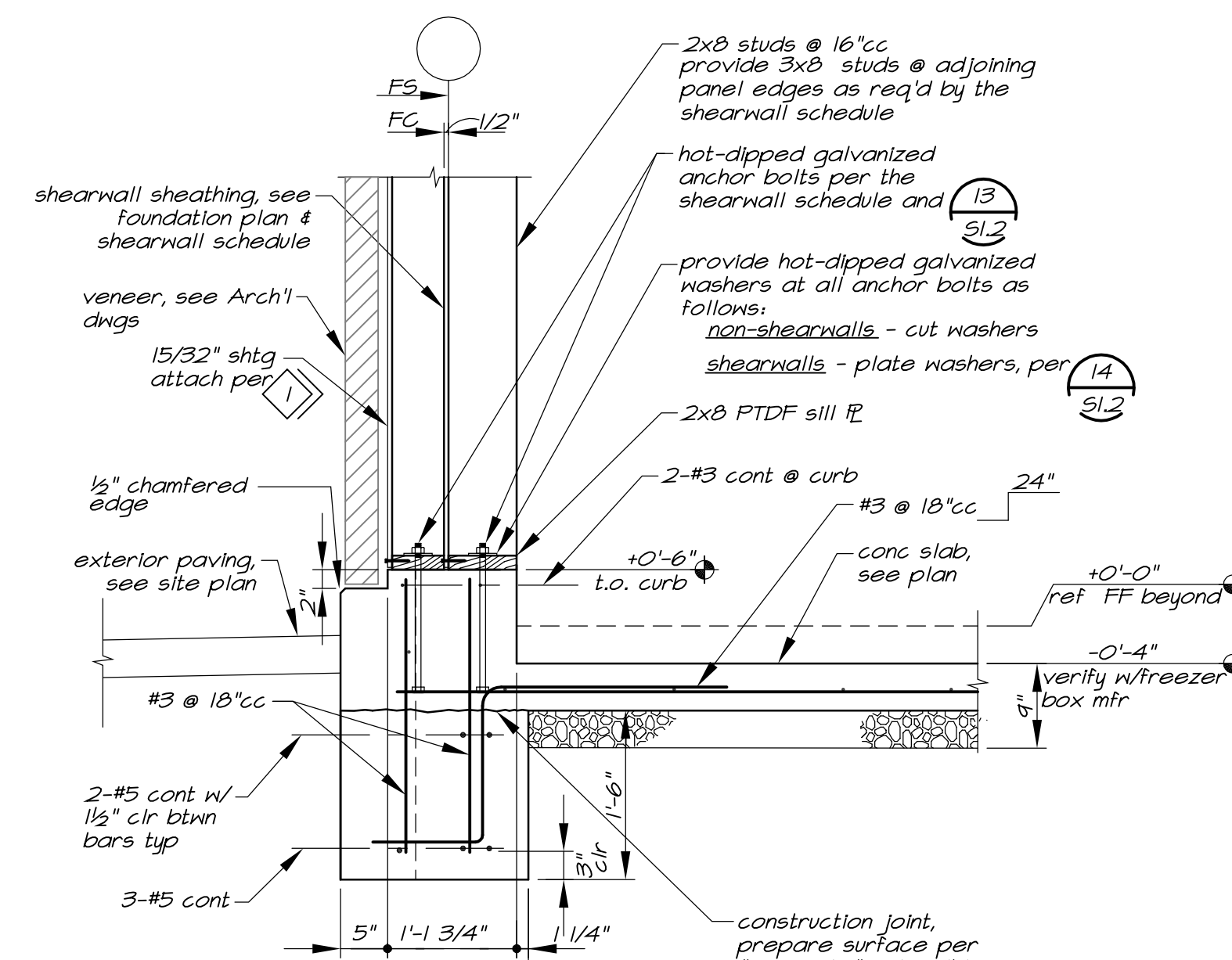
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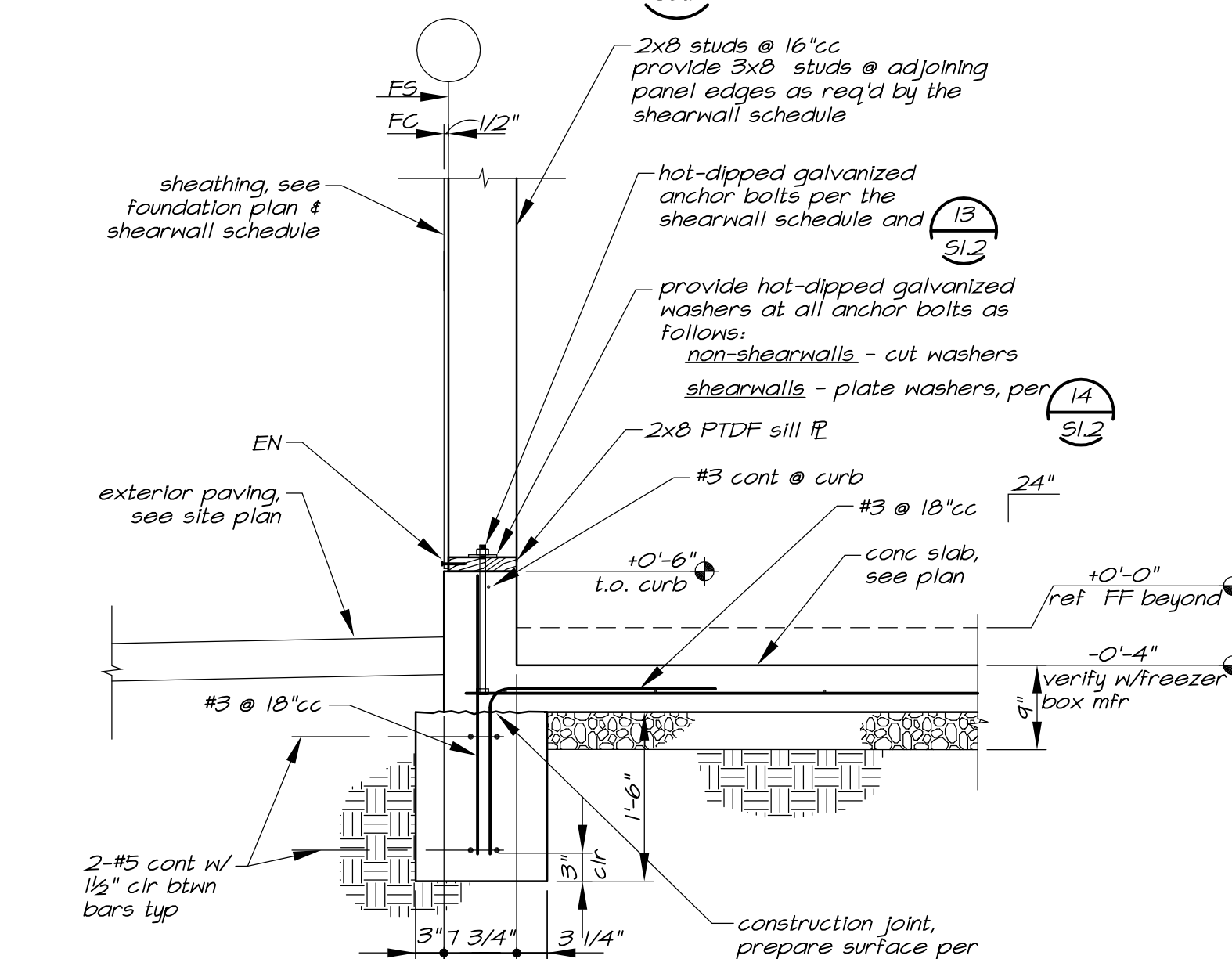
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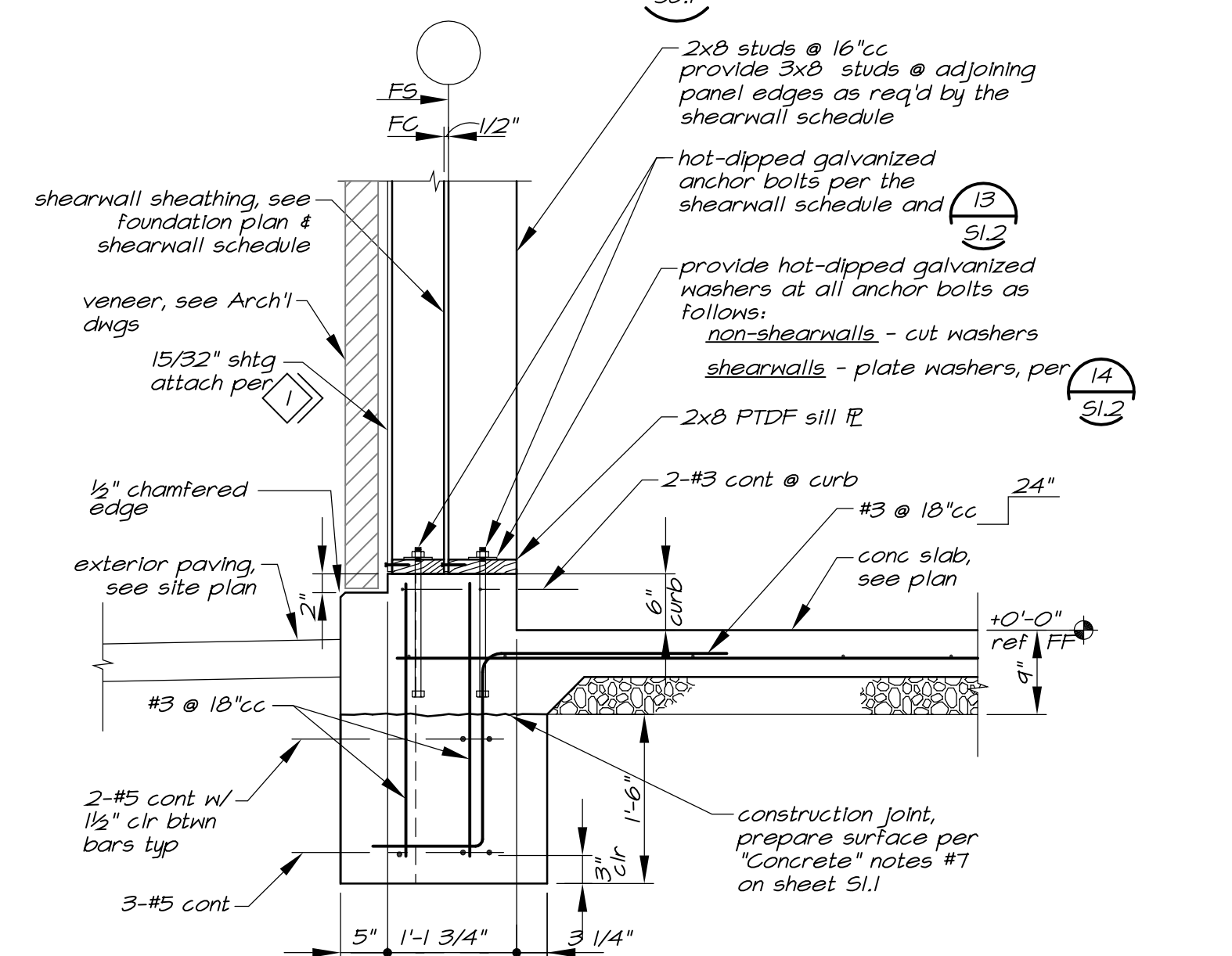
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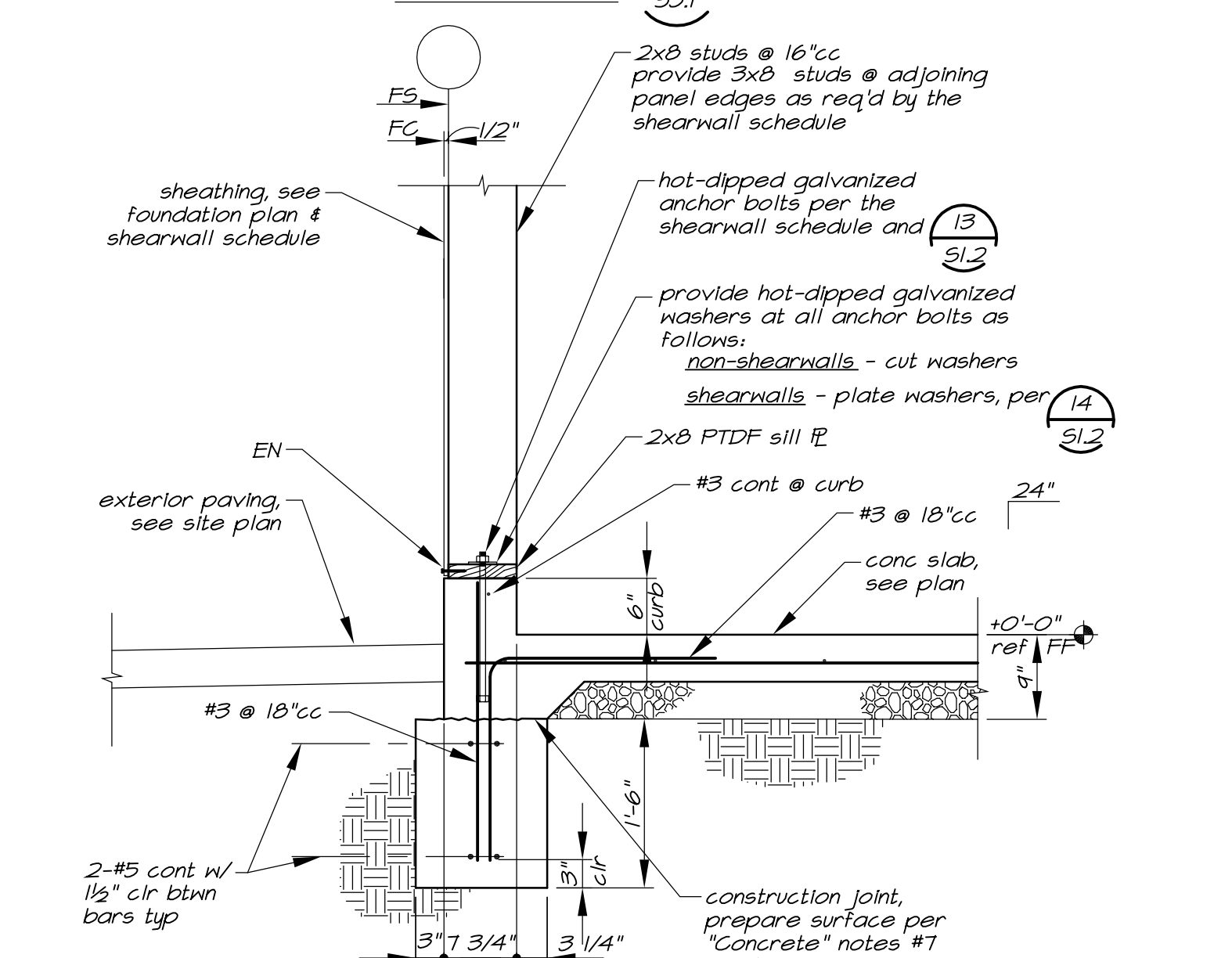
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Section K  
S3.1 3/4"=1'-0"



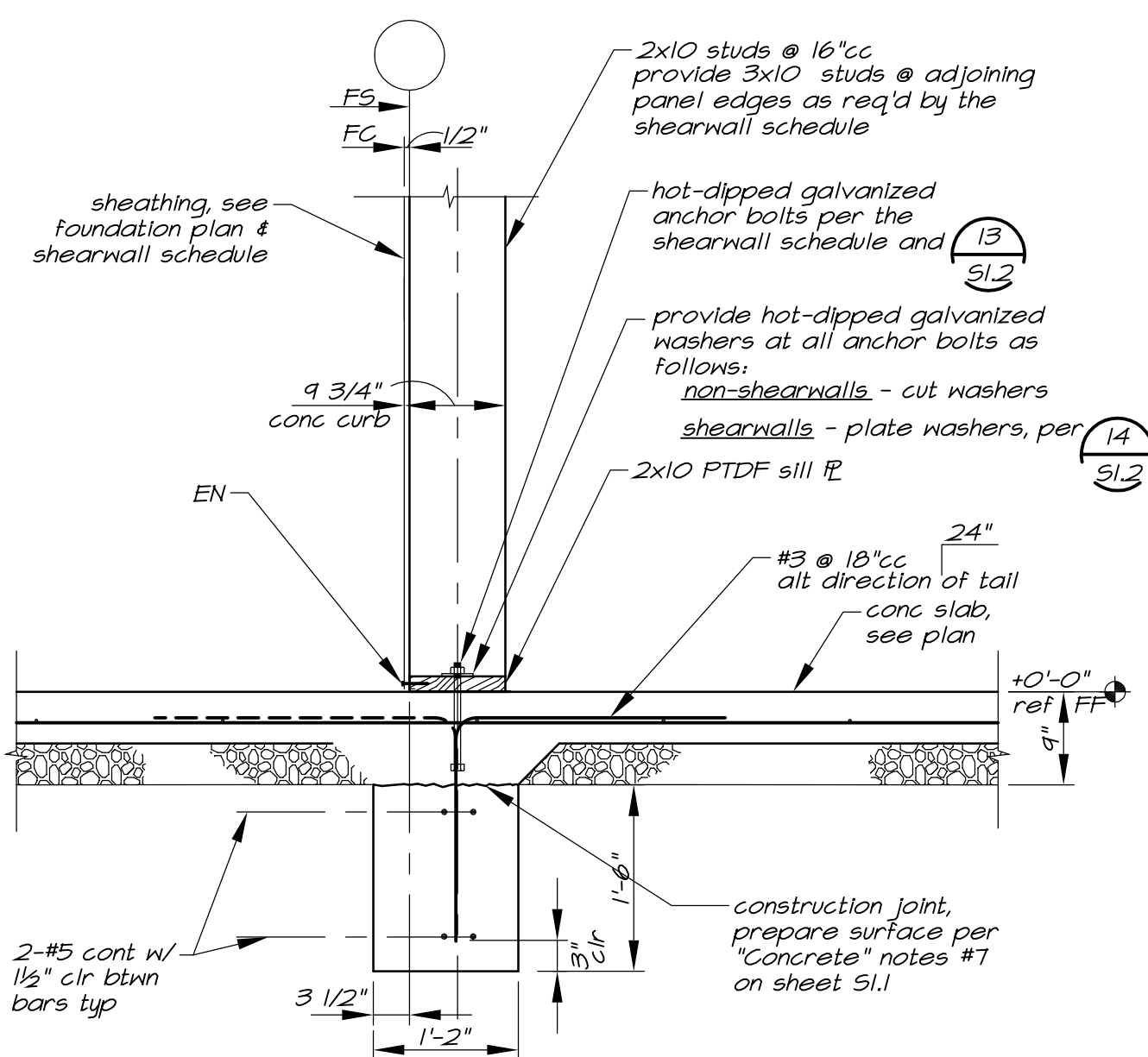
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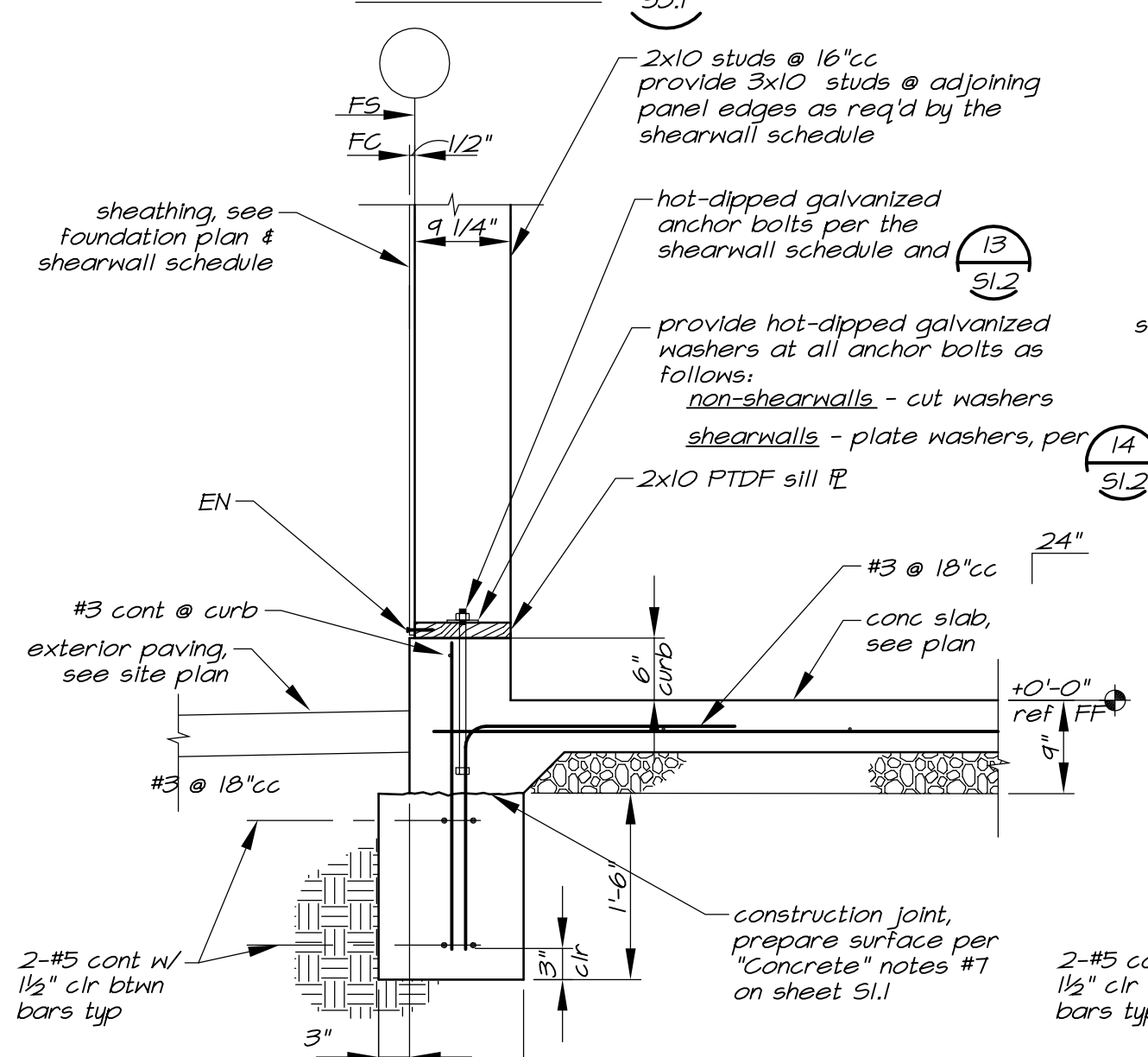
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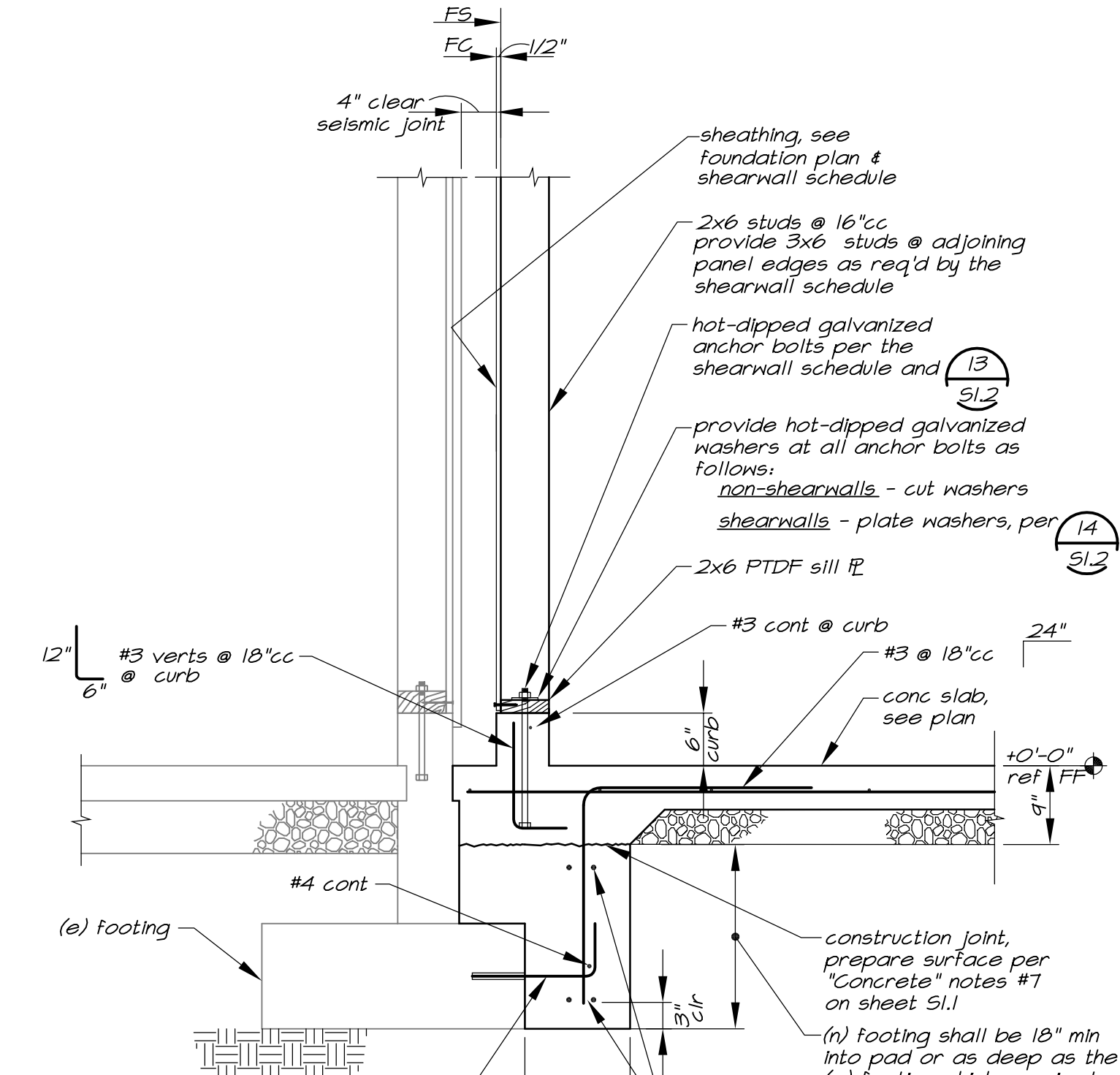
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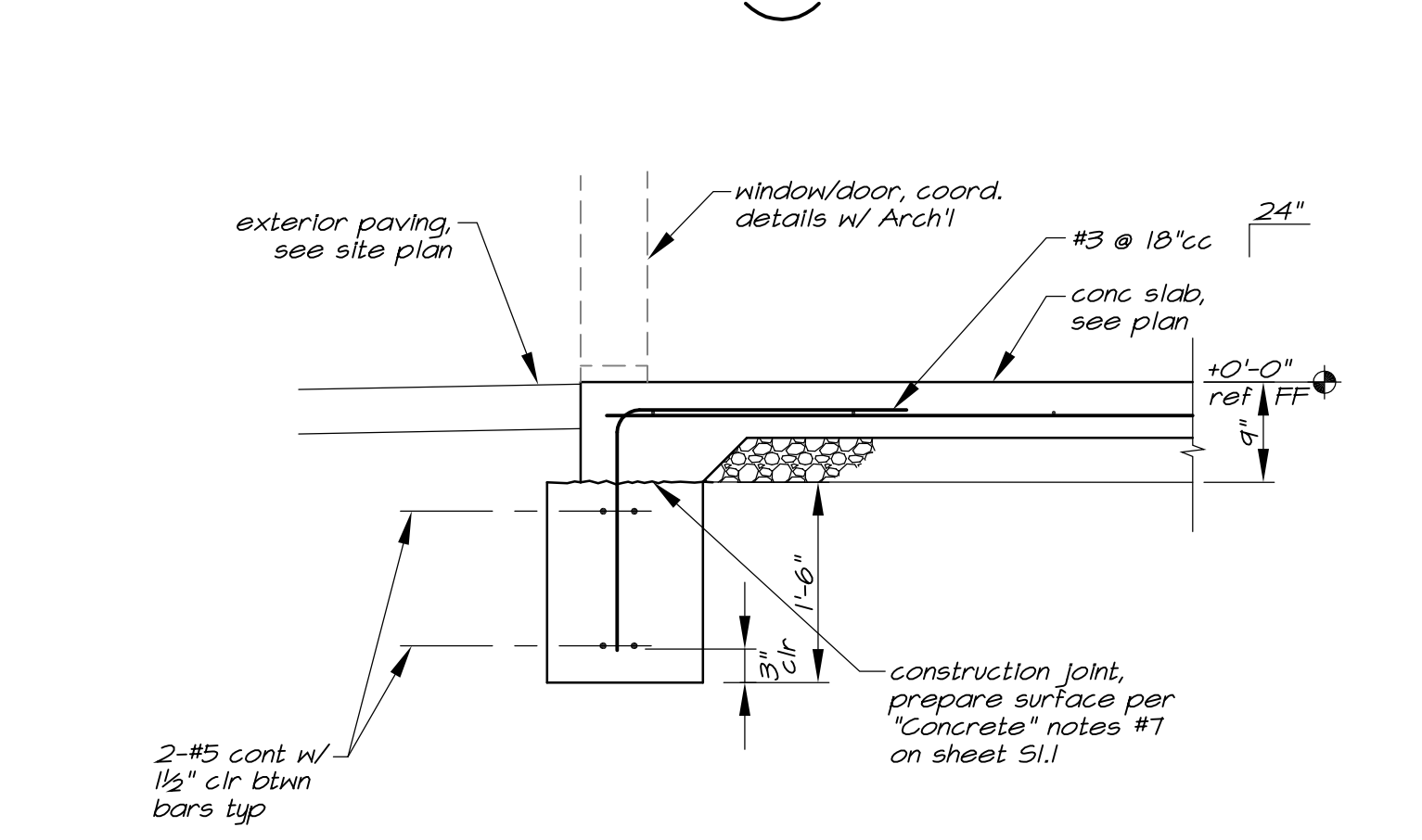
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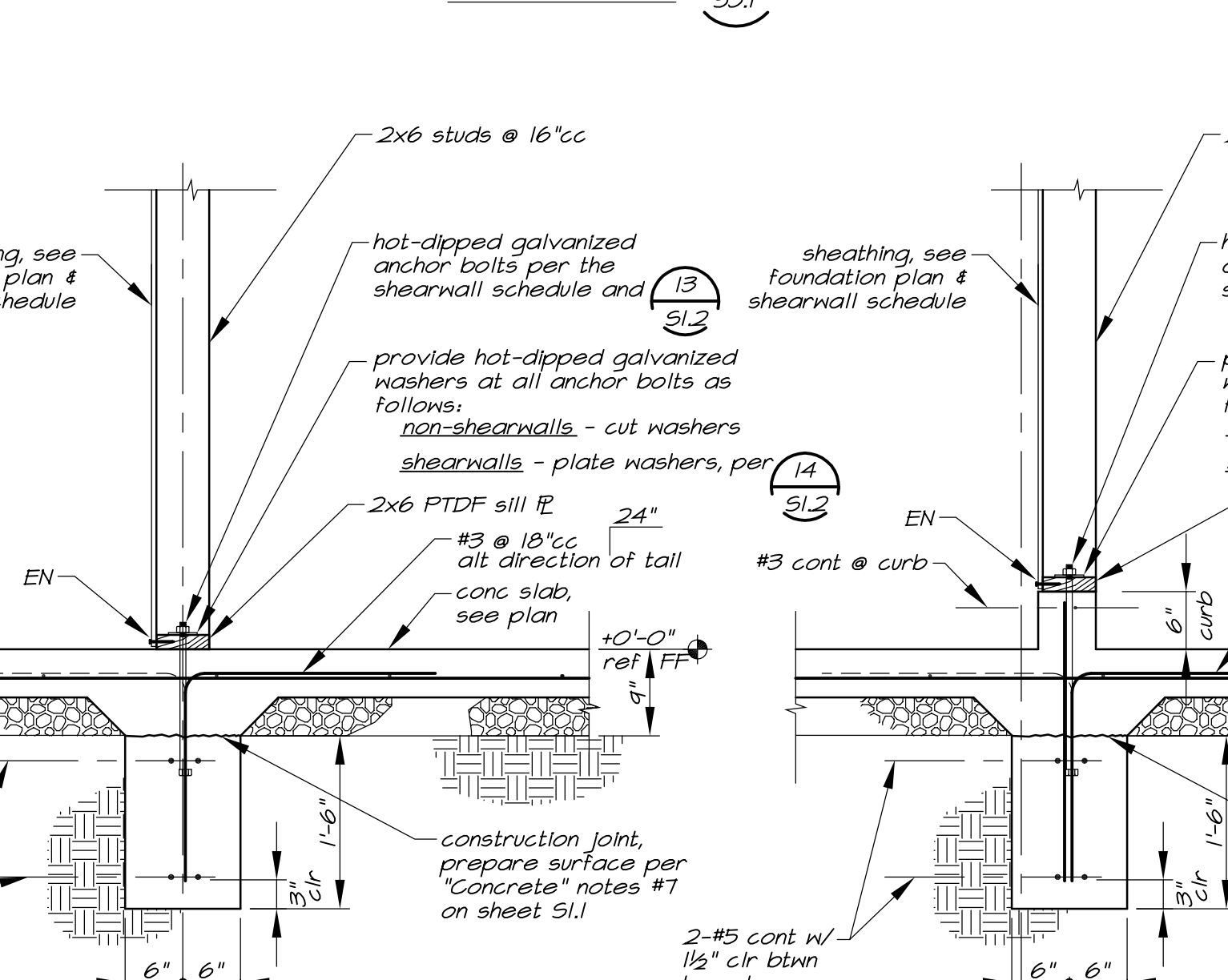
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Section M  
S3.1 3/4"=1'-0"



Section H  
S3.1 3/4"=1'-0"



Section D  
S3.1 3/4"=1'-0"

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Sections

Drawing Number

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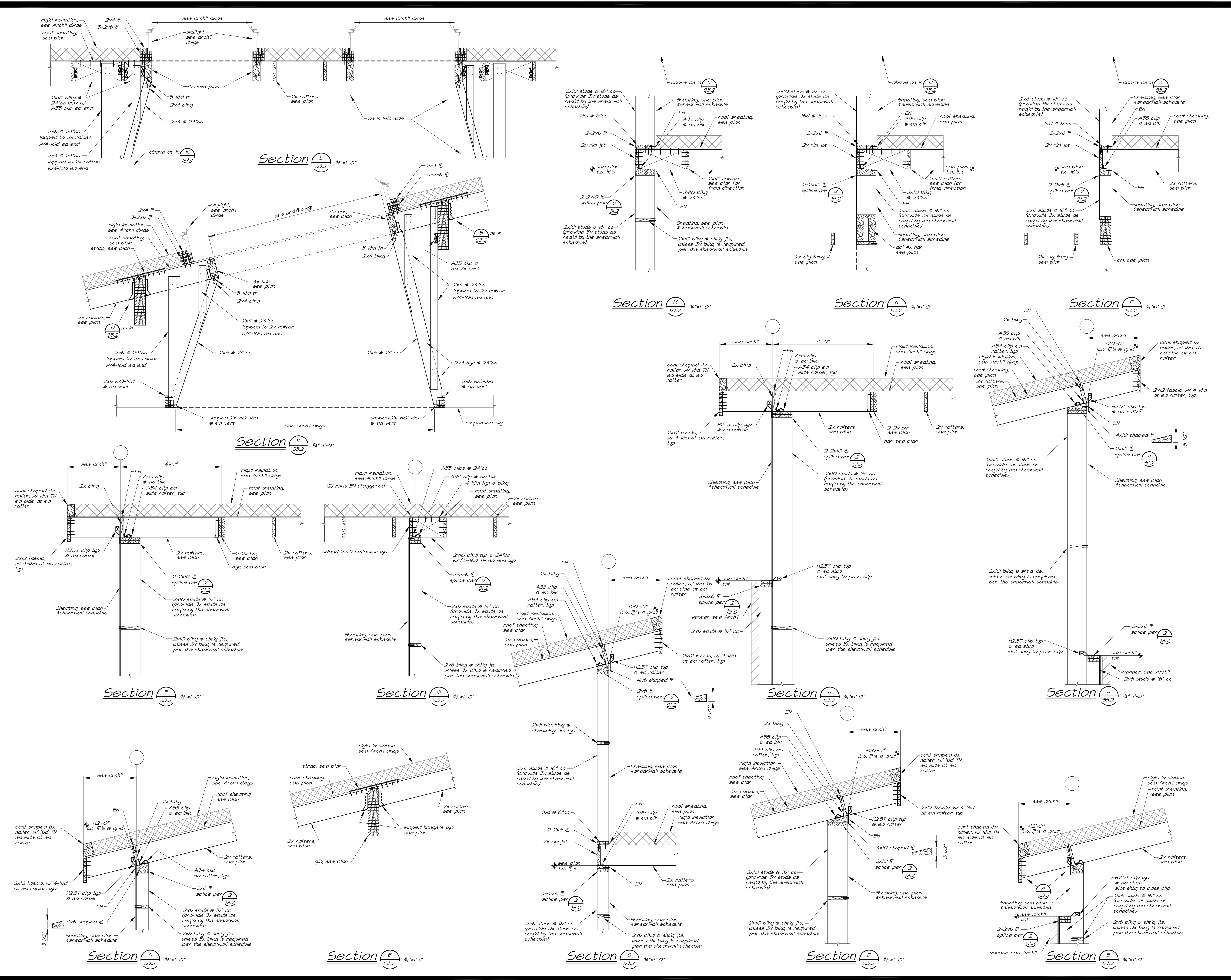
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Project Number: 19003.2

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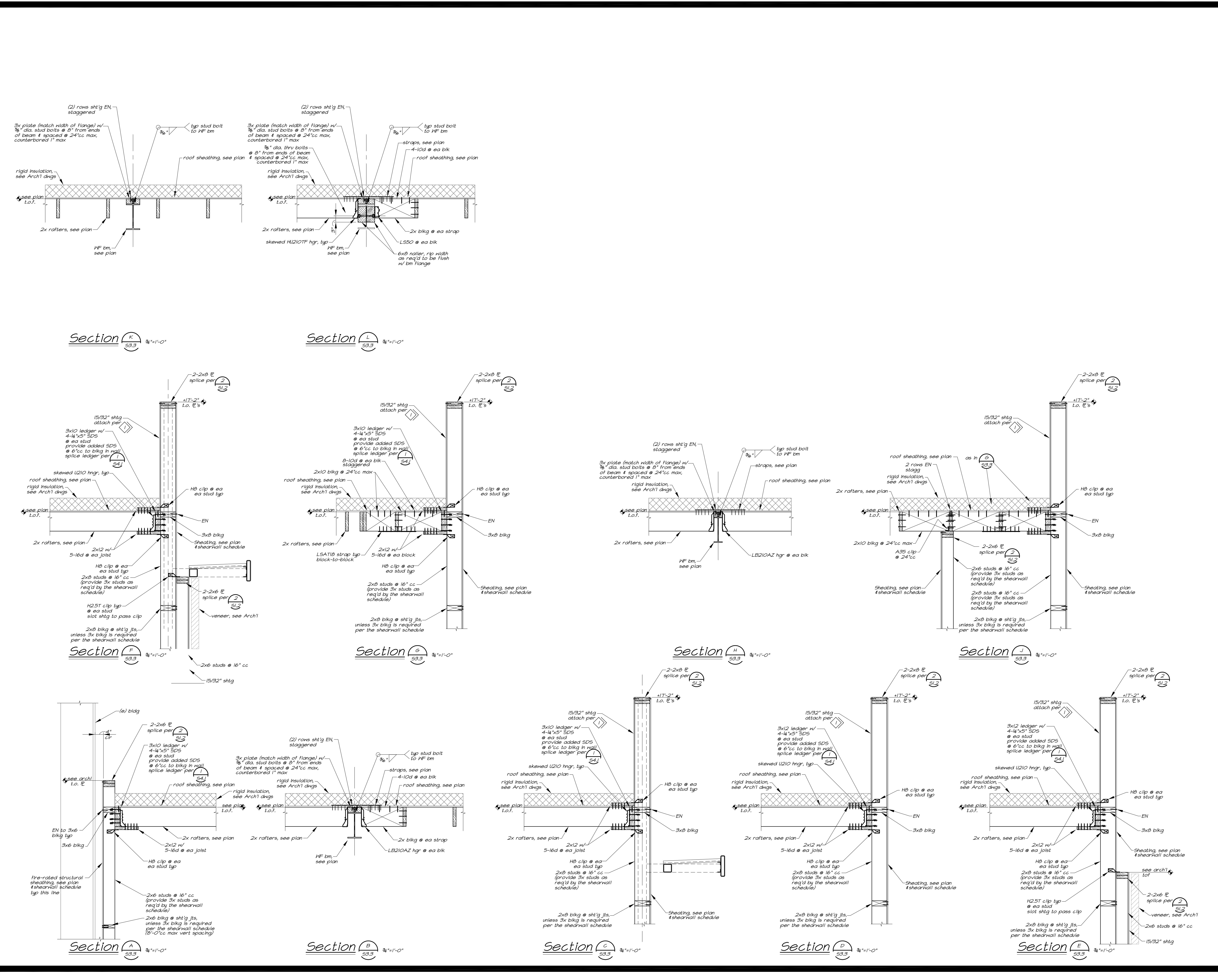
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Drawing Number  
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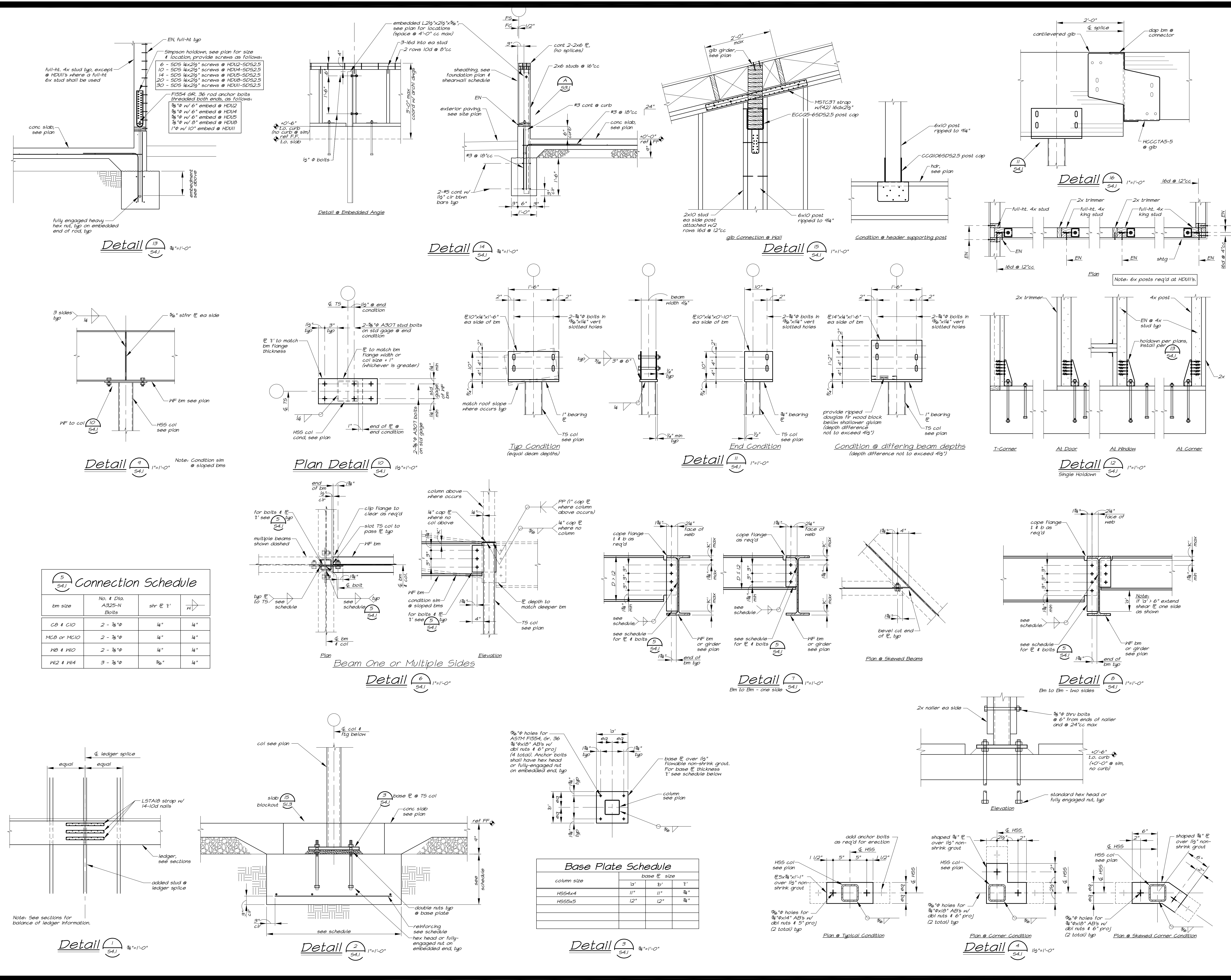
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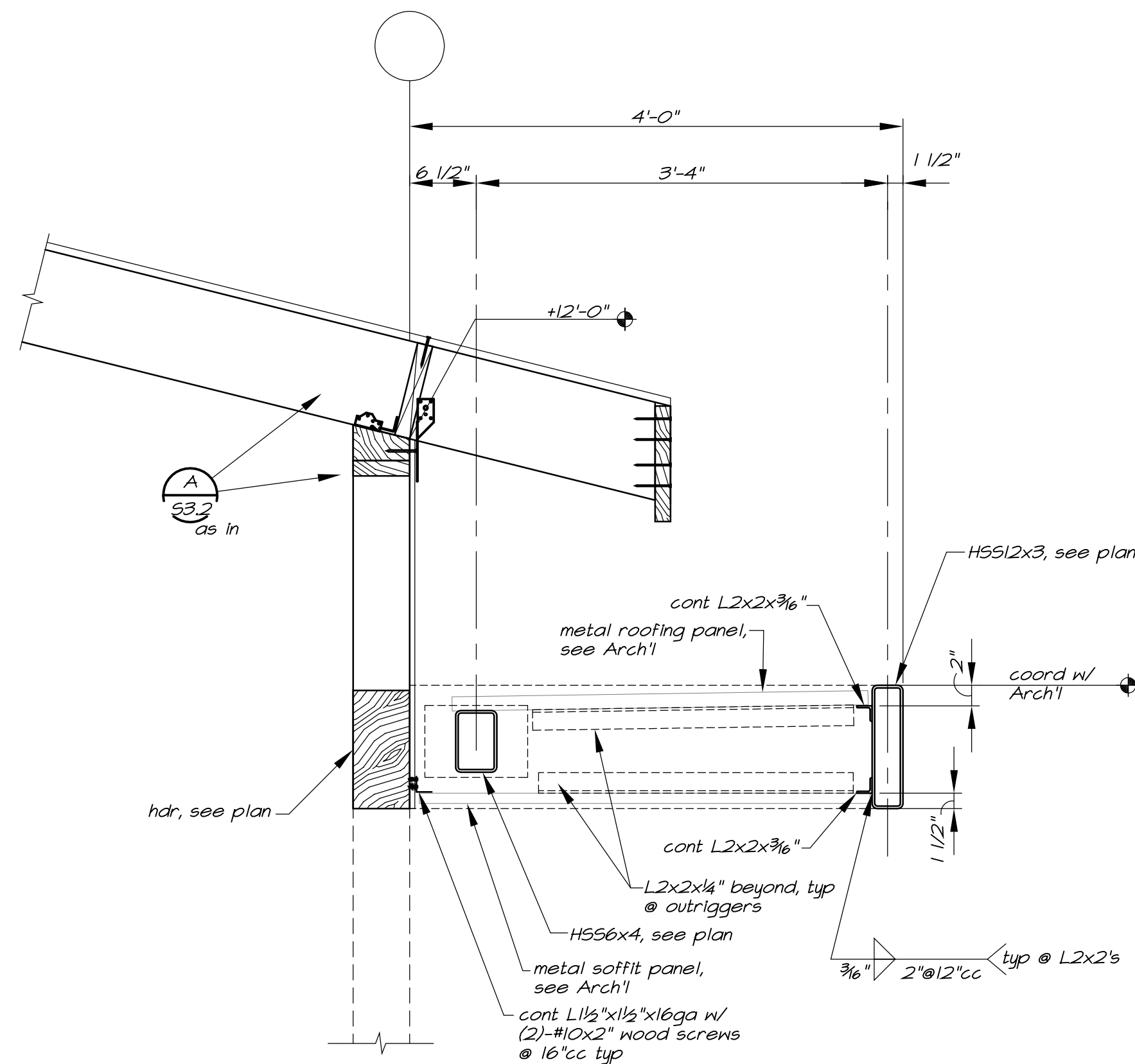
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Details

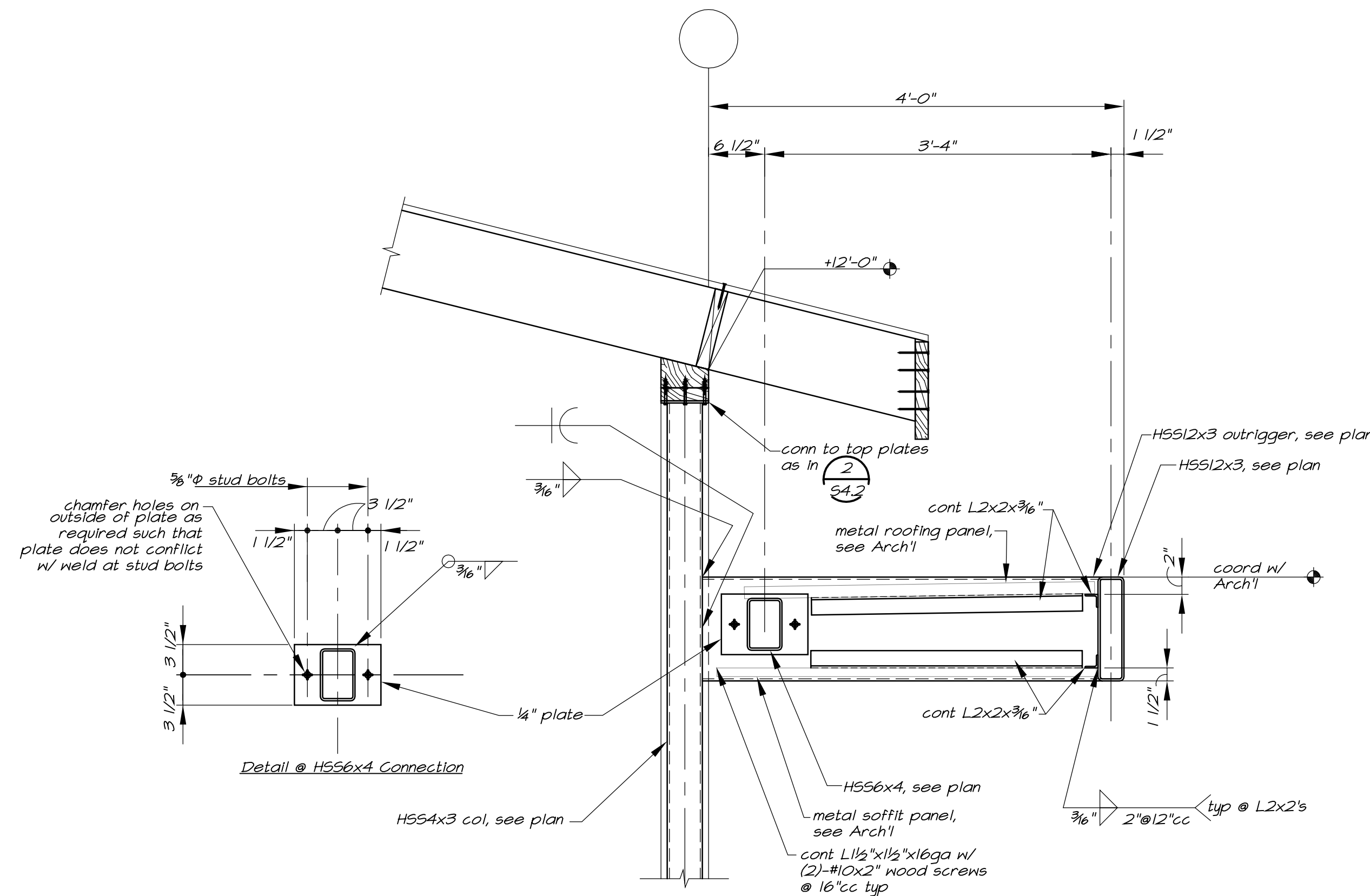
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Project Number  
19003.2

Drawing Number  
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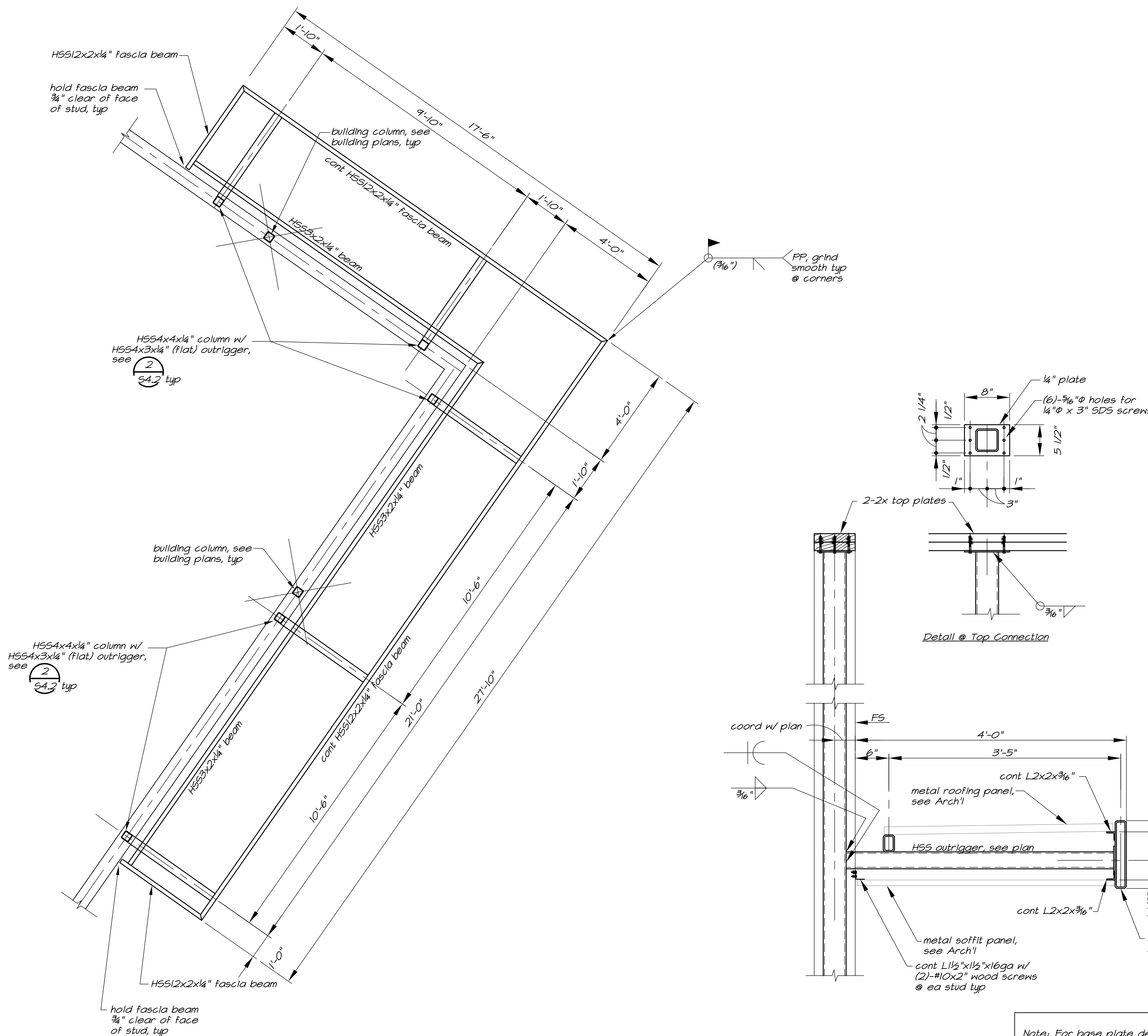




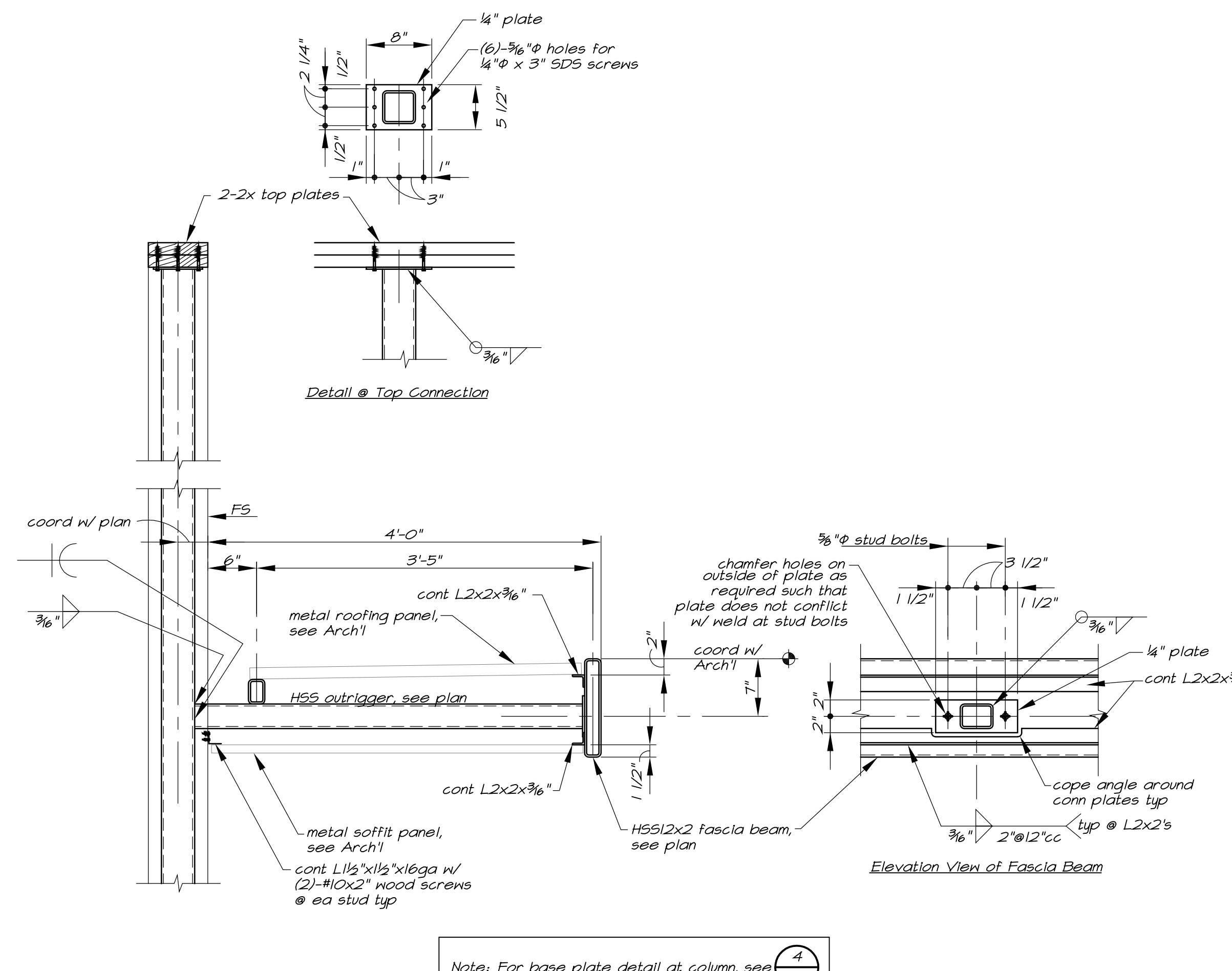
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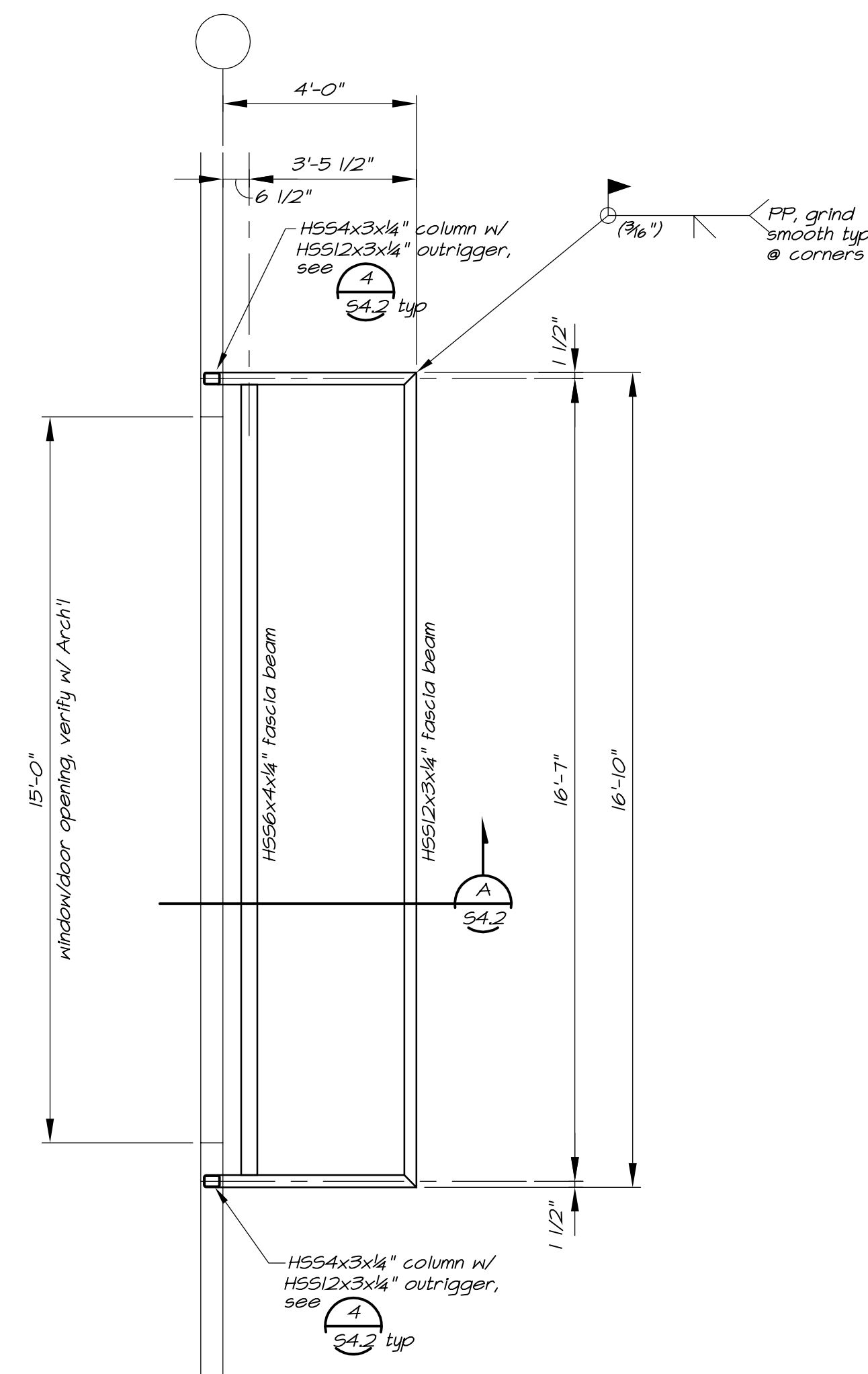
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Canopy Framing Plan - Building M 1  
S4.2 3/8"=1'-0"



Detail 2  
S4.2 1"=1'-0"



Canopy Framing Plan - Buildings F & G 3  
S4.2 3/8"=1'-0"

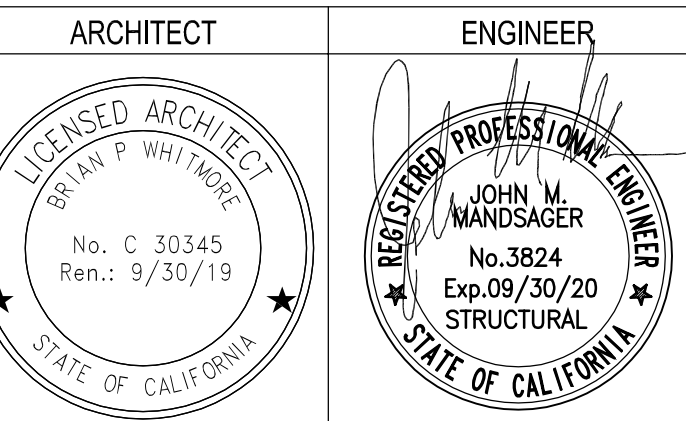
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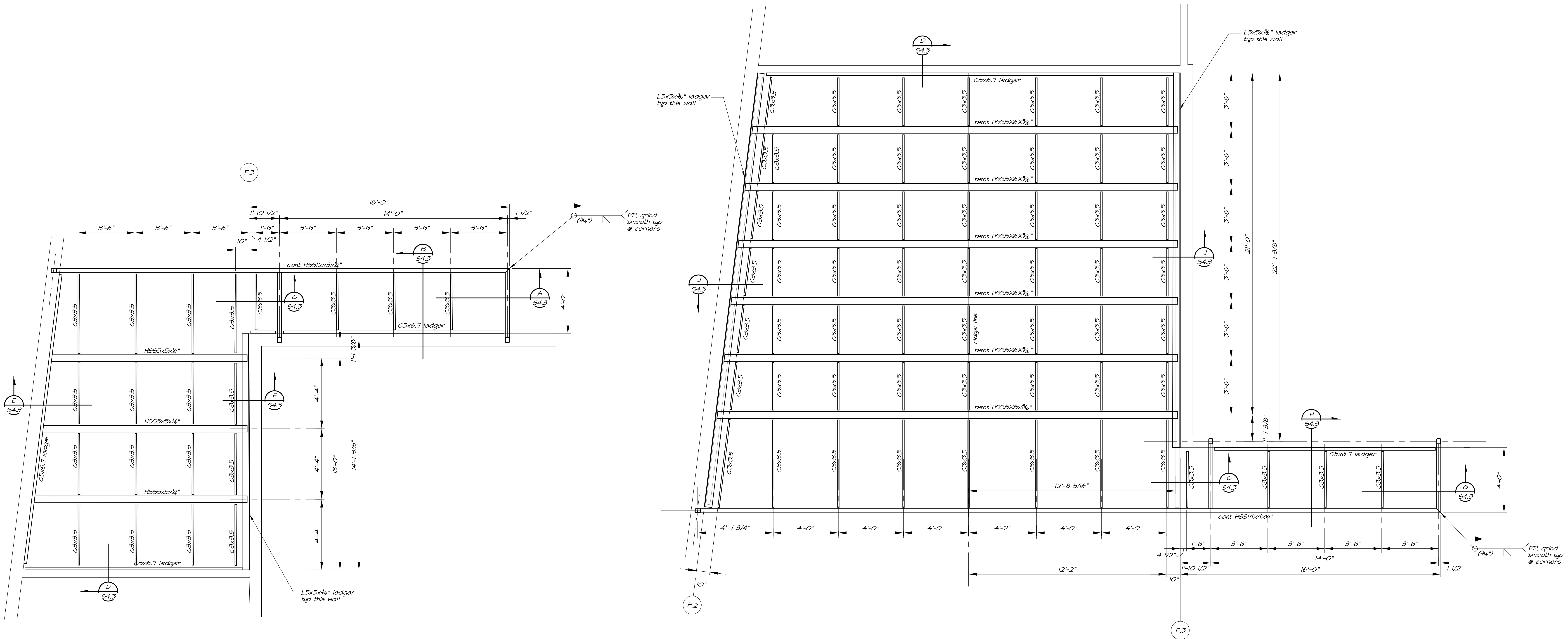
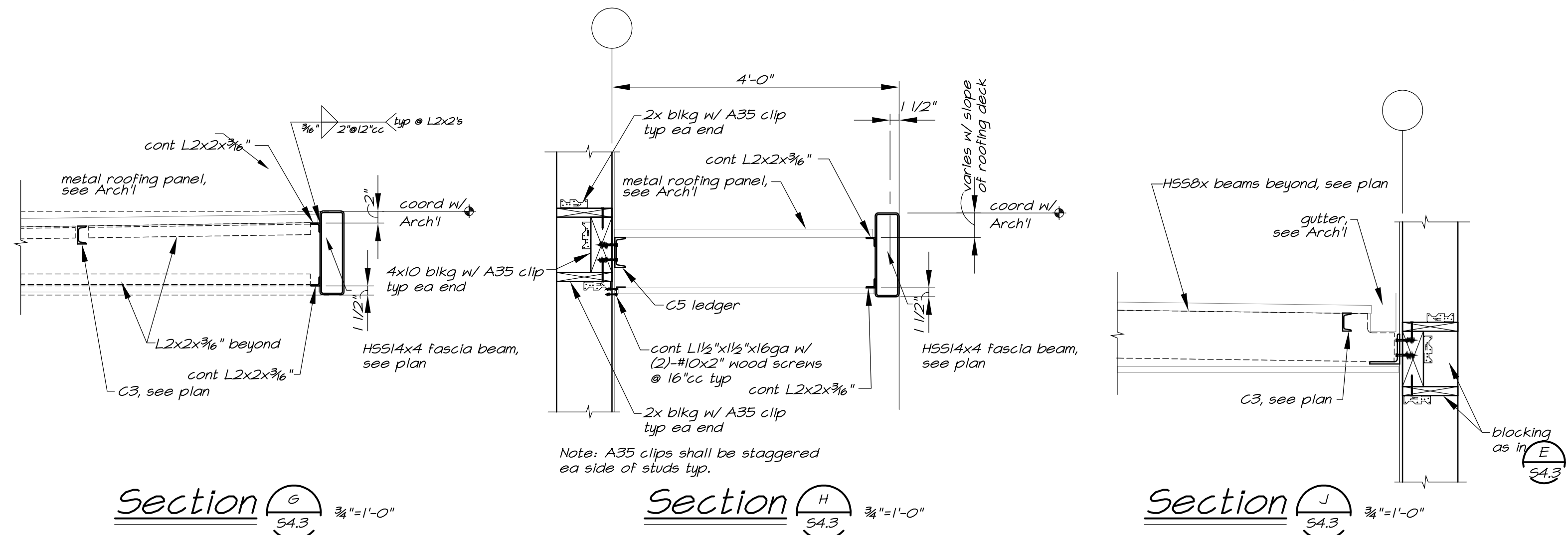
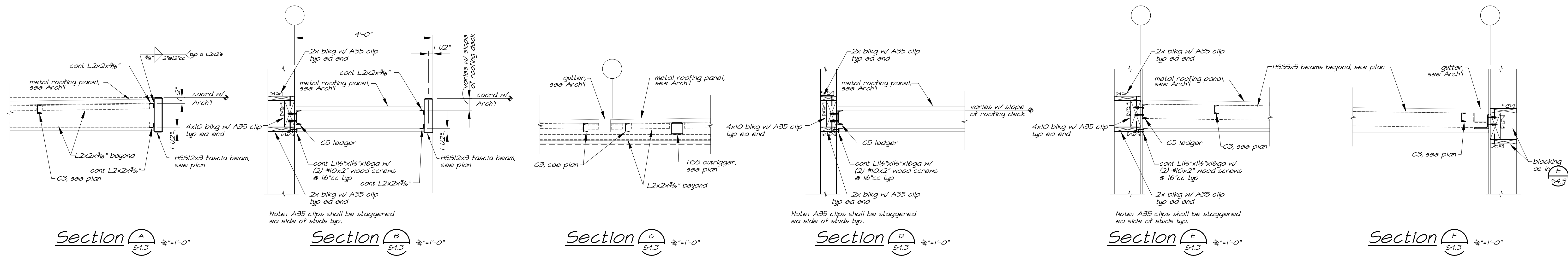
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Details

Date 05/20/2019	Drawing Number S4.2
Scale AS NOTED	
Project Number 19003.2	



Canopy Framing Plan - Building F  $\frac{1}{8}''=1'-0''$

Canopy Framing Plan - Building F  $\frac{2}{8}''=1'-0''$

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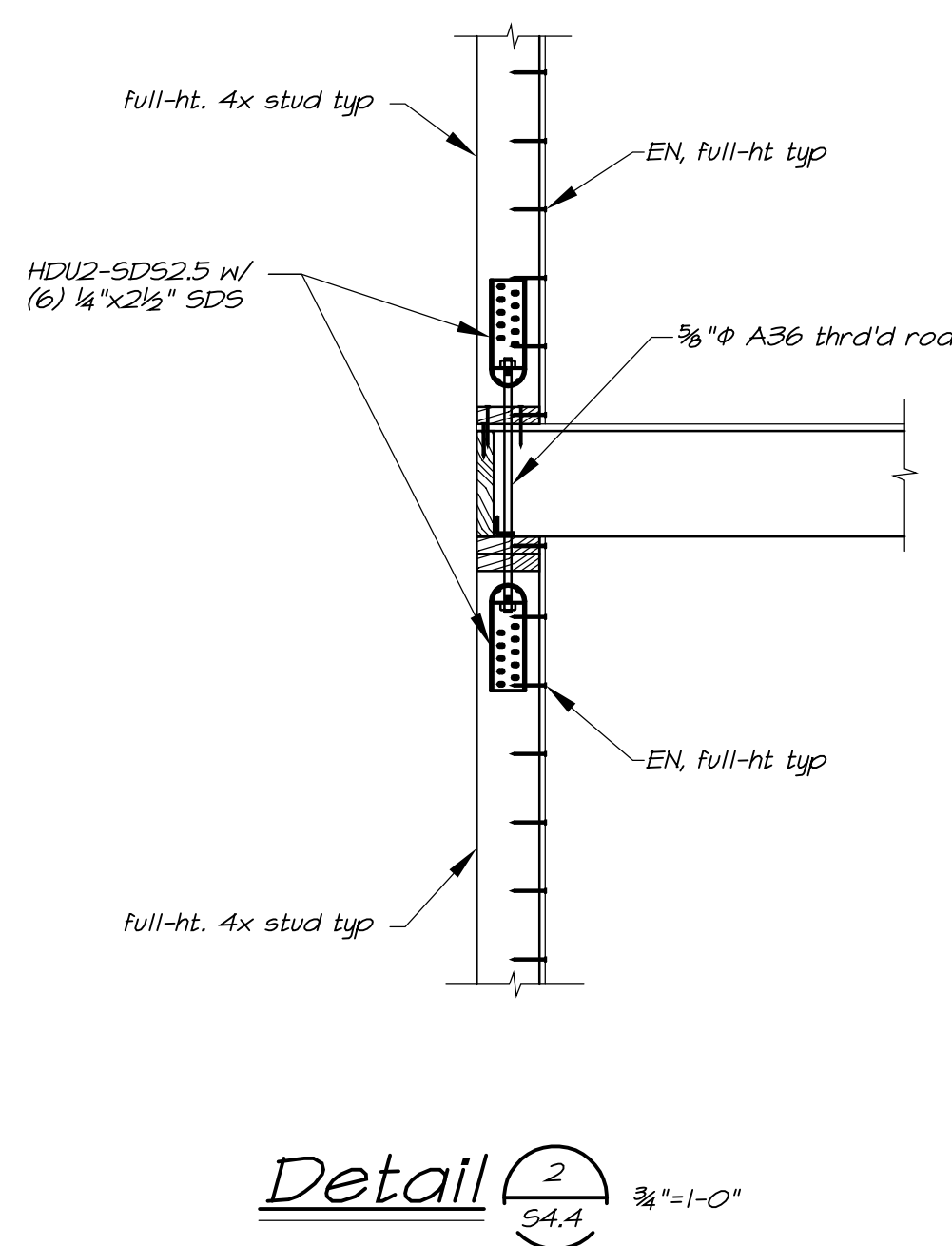
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Project Number  
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Drawing Number  

S4.3









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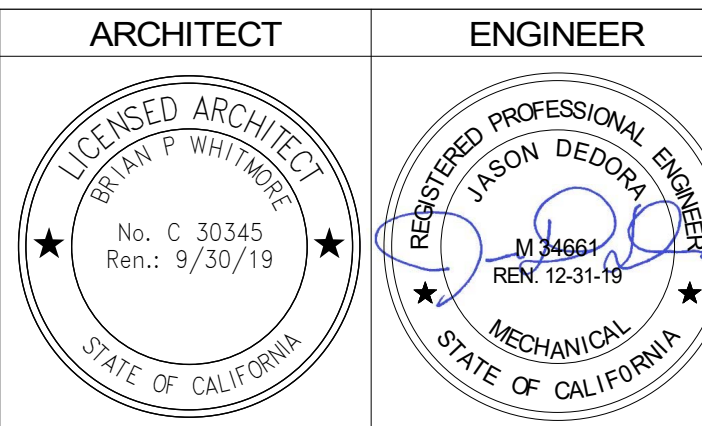
PACKAGED ROOFTOP UNIT SCHEDULE																																								
TYPE	MARK	NOMINAL TONS	ELECTRICAL				BLOWER				COOLING				HEATING				POWER EXHAUST				FILTER TYPE	FILTER SIZE	SERVICE	OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES											
			VOLTAGE	PHASE	FLA	MCA	MOCP	MAX CONTINUOUS BHP	DESIGN BHP	CFM	E.S.P. (IN. W.C.)	MIN. OSA CFM	DRIVE	TYPE	TOTAL CAPACITY (BTU)	SENSIBLE CAPACITY (BTU)	E.A. DB (°F)	E.A. WB (°F)	AMBIENT TEMP (°F)	SEER / EER	TYPE	INPUT (BTU)								OUTPUT (BTU)	FUEL	AFUE %	VOLTAGE	HP	FLA	MCA	MOCP	STATIC PRESSURE	MANUFACTURER	MODEL
AC	F-1	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	340	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	F-2	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	340	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	F-3	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	340	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	F-4	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	340	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	F-5	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	340	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	F-6	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	340	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	F-7	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	340	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	F-8	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	340	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	F-9	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	340	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	F-10	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	375	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	G-1	7.5	460 V	3	21.65 A	23 A	25 A	2.4 hp	1.14 hp	3000	0.70 (n-wg)	455	BELT	DX	79,350 Btu/h	76,640 Btu/h	83 °F	65 °F	105 °F	- / 12.8	GAS	150,000 Btu/h	120,000 Btu/h	NATURAL GAS	80	460 V	1.5 hp	3.2 A	4 A	7 A	MEDIUM	CANFAB	1178-AHPE015	MERV 8	6 / 18x24x2	SEE PLAN	2,450 lb	CARRIER	48LCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH. PROVIDE DIRECT SMOKE EXTRACTOR IN THE SUPPLY AIR RETURN AC UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH THE 2016 CALIFORNIA MECHANICAL CODE. SECTION 08R. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR.
AC	G-2	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	335	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	G-3	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	340	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	G-4	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	340	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	G-5	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	340	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	G-6	4	460 V	3	8.95 A	11 A	15 A	1.1 hp	0.6 hp	1600	0.70 (n-wg)	350	DIRECT	DX	43,030 Btu/h	40,390 Btu/h	83 °F	65 °F	105 °F	16 / 9.84	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	0.8 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-MHP007	MERV 8	2 / 16x25x2	SEE PLAN	1,100 lb	CARRIER	48GCDM05A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	G-7	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	330	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	G-8	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	345	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	G-9	5	460 V	3	10.55 A	13 A	15 A	1.4 hp	0.76 hp	2000	0.70 (n-wg)	150	DIRECT	DX	54,950 Btu/h	53,380 Btu/h	83 °F	65 °F	105 °F	16 / 9.95	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	1 hp	2.4 A	3 A	5 A	MEDIUM	CANFAB	1118-AHPE010	MERV 8	4 / 16x16x2	SEE PLAN	1,200 lb	CARRIER	48GCDM06A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
AC	M-1	3	208 V	3	18.08 A	21 A	30 A	0.7 hp	0.43 hp	1200	0.70 (n-wg)	175	DIRECT	DX	29,820 Btu/h	26,970 Btu/h	83 °F	65 °F	105 °F	16 / 9.03	GAS	67,000 Btu/h	54,000 Btu/h	NATURAL GAS	81	460 V	0.5 hp	1.4 A	2 A	3 A	MEDIUM	CANFAB	1118-MPE005	MERV 8	2 / 16x25x2	SEE PLAN	1,100 lb	CARRIER	48GCDM04A2A6	Provide BACNET COMMUNICATION compatible with EMS system. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETIL MODULATING CENTRIFUGAL POWER EXHAUST AND ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS. PROVIDE CONDENSER COIL GUARD AND FLUE EXTENSION. PROVIDE MASON ISC 2" DEFLECTION ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT

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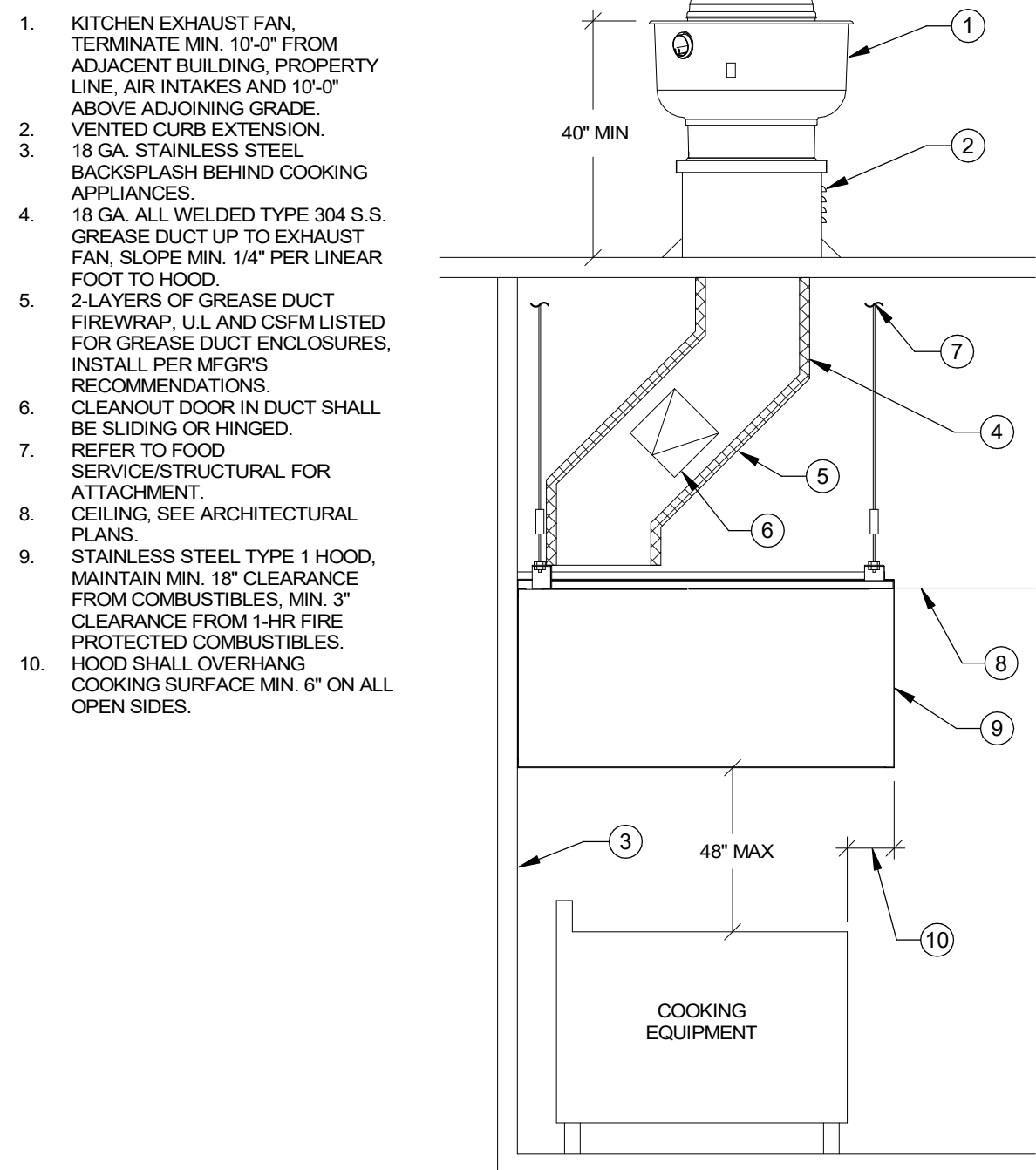


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NO.	REMARKS	DATE

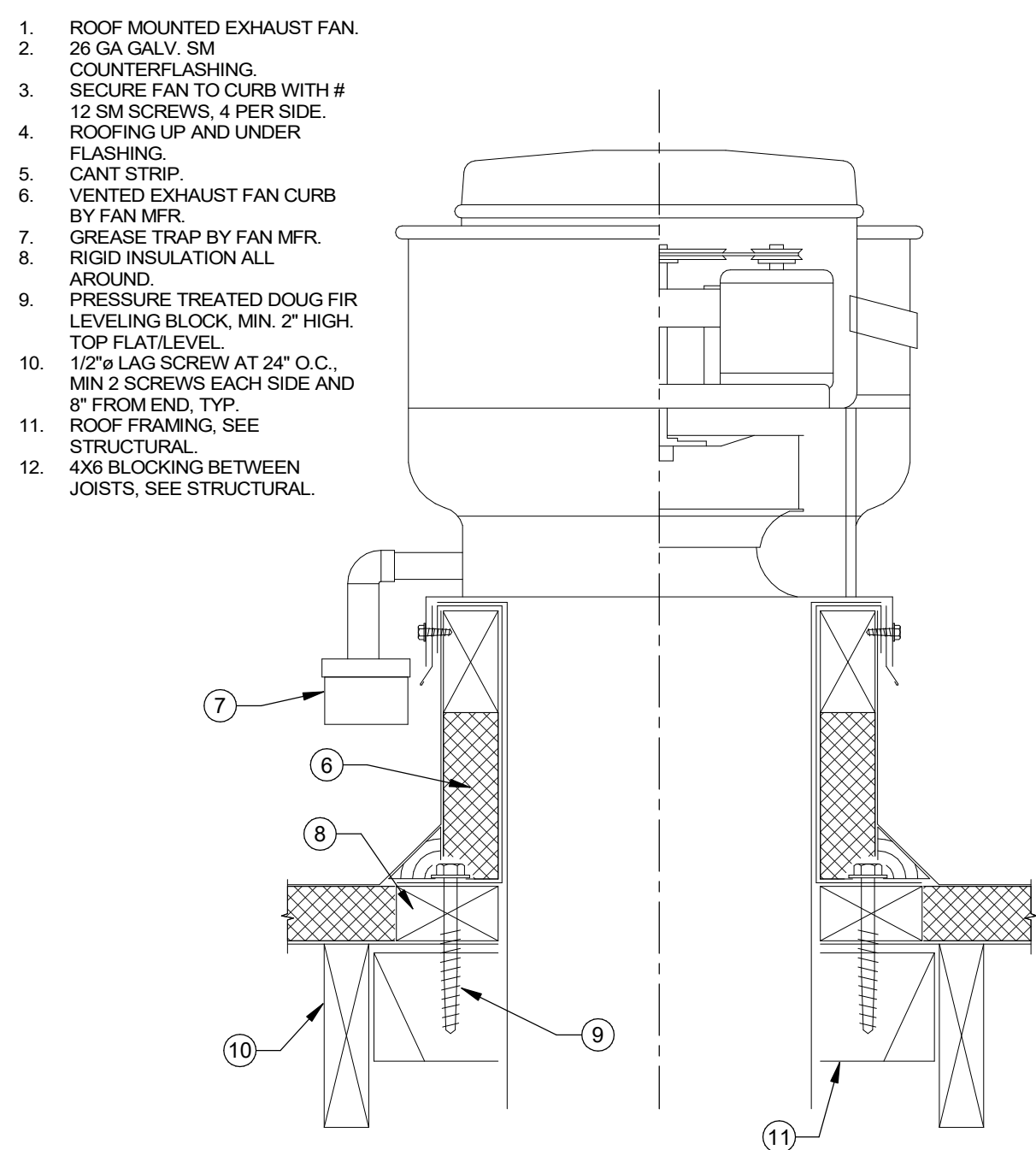
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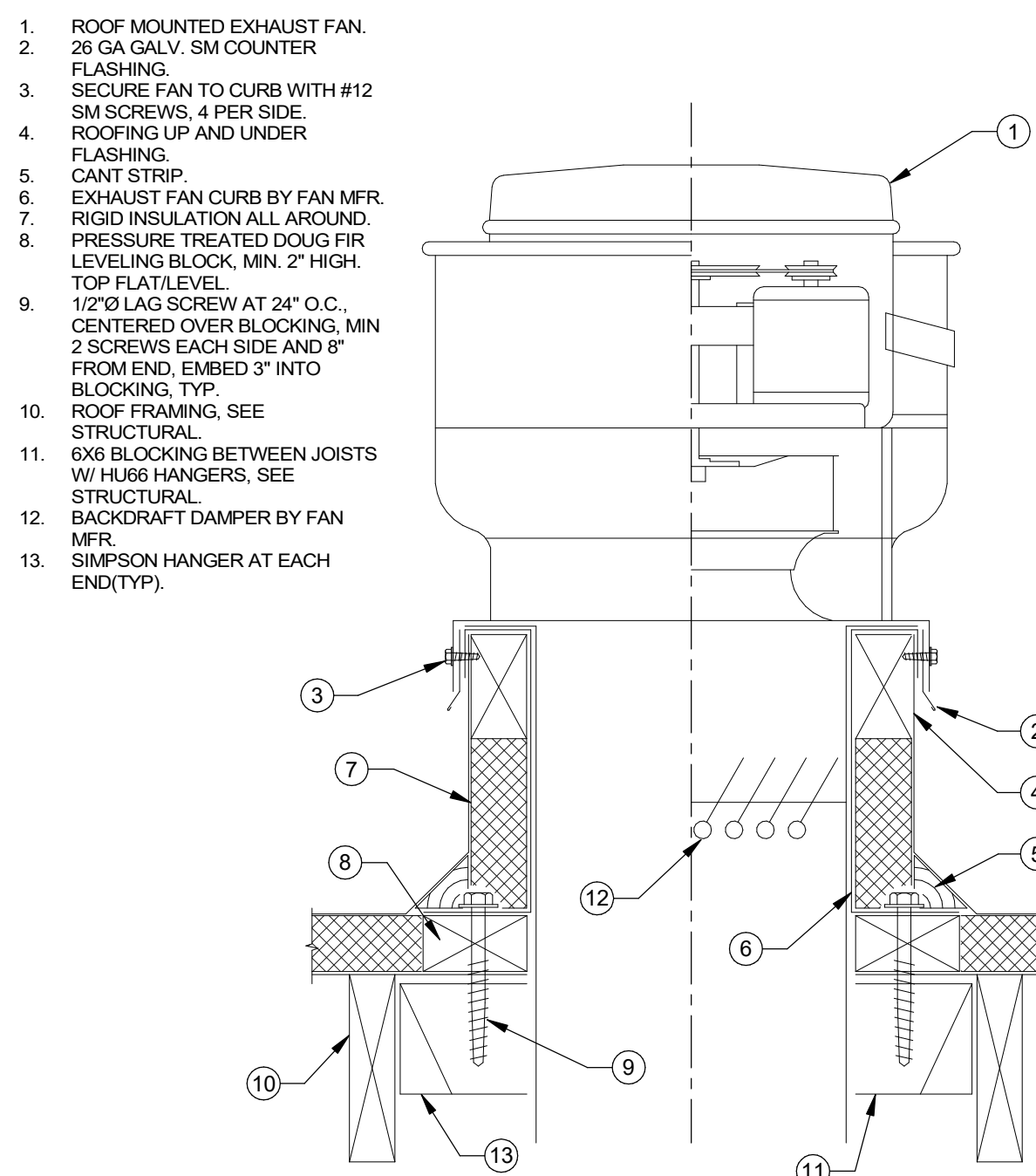
KITCHEN HOOD DETAIL

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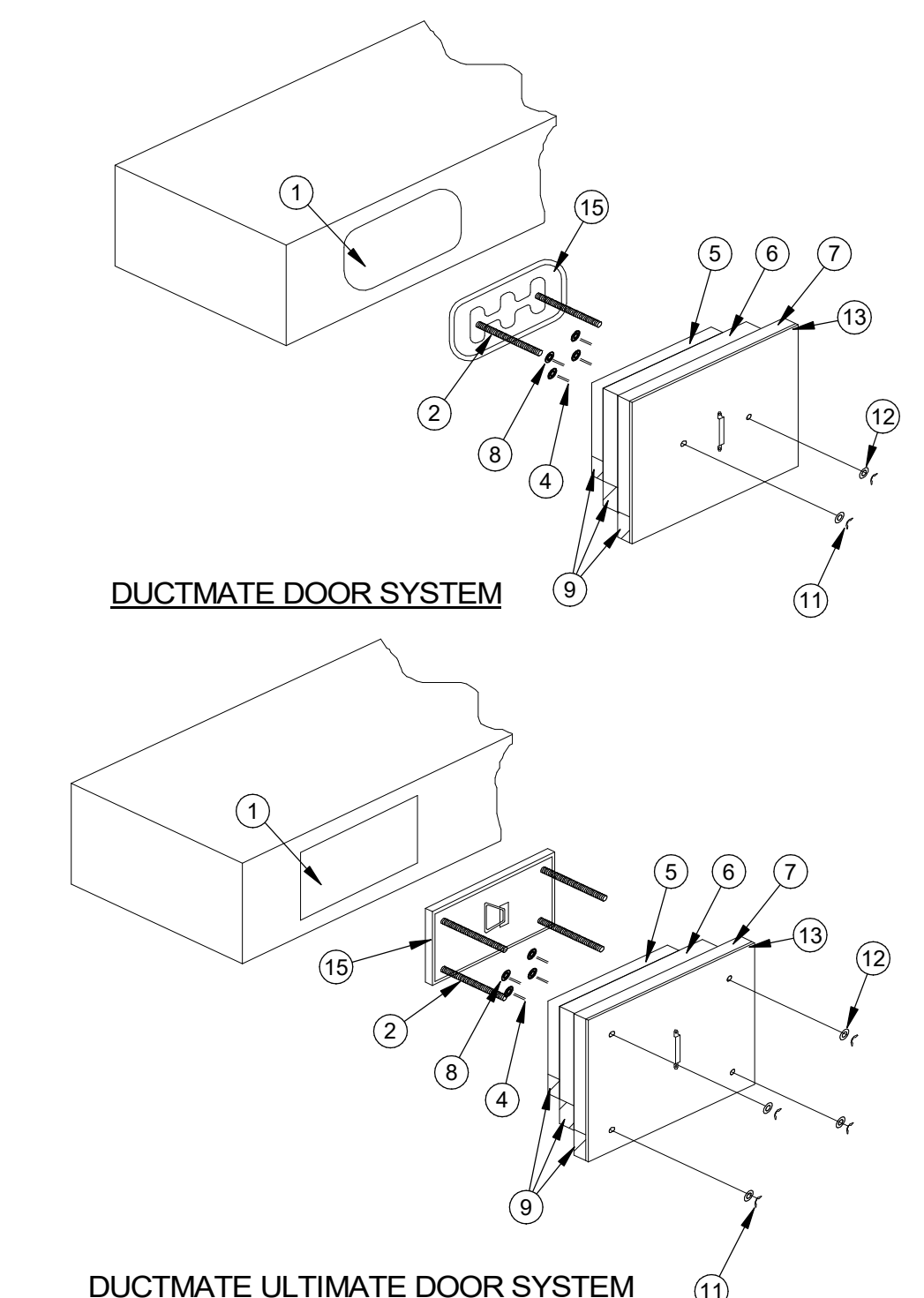
KITCHEN ROOF EXHAUST FAN

NTS 13

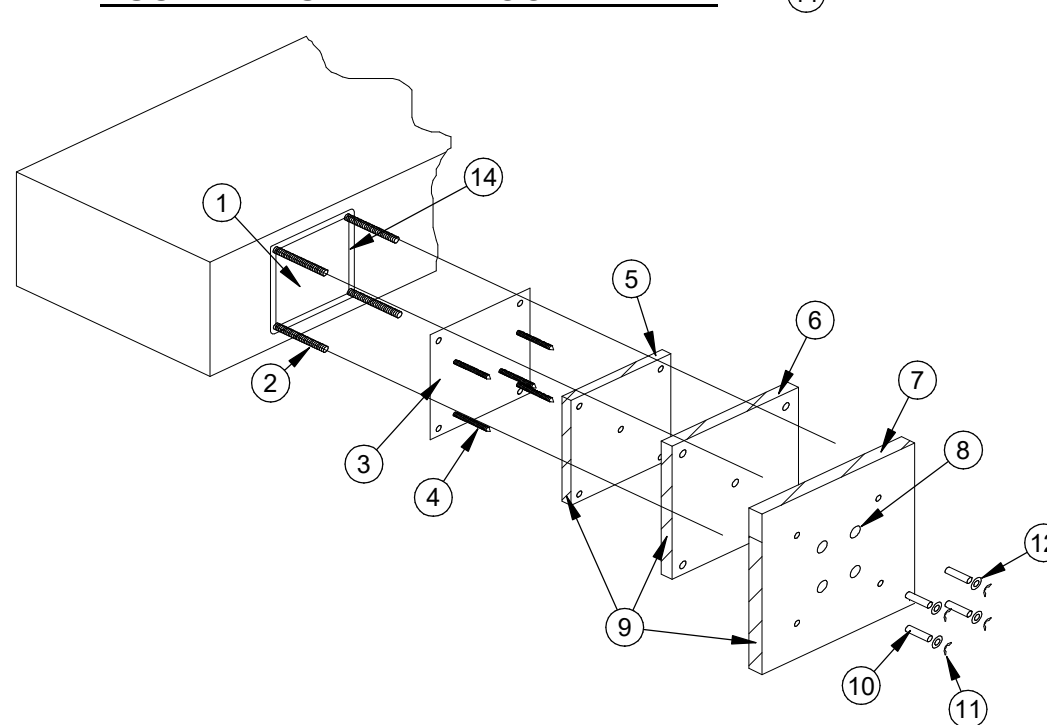


ROOF EXHAUST FAN MOUNTING (Wood)

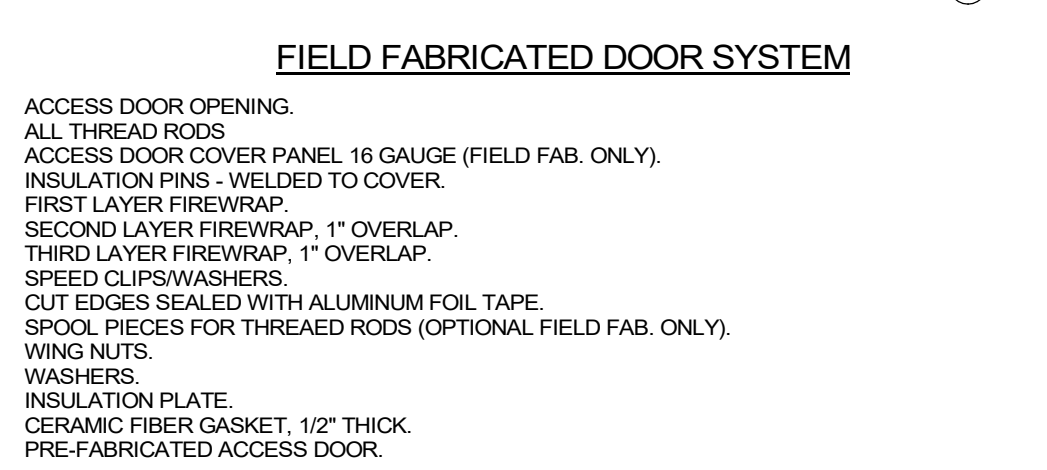
NTS 14



DUCTMATE DOOR SYSTEM



DUCTMATE ULTIMATE DOOR SYSTEM

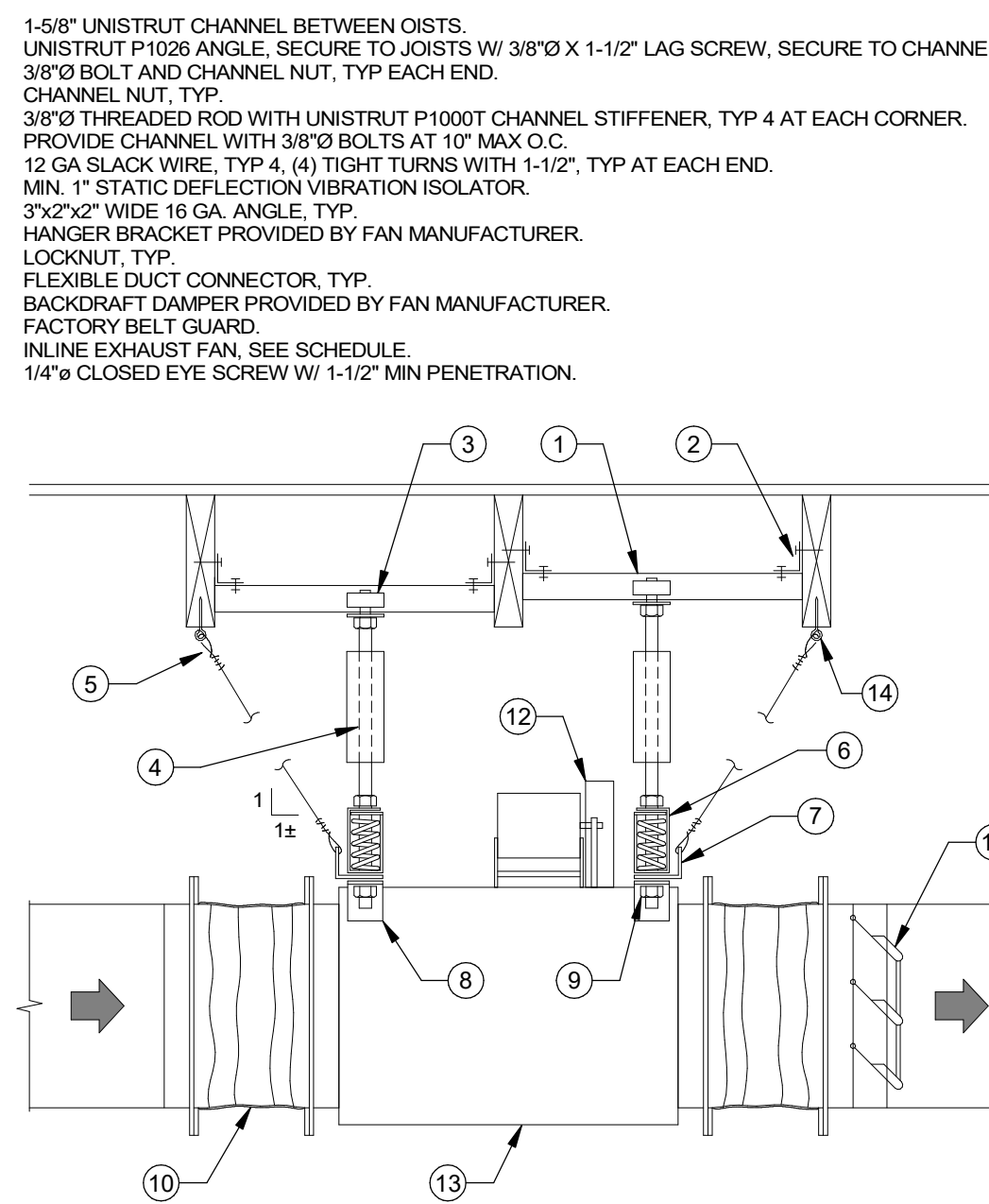


FIELD FABRICATED DOOR SYSTEM



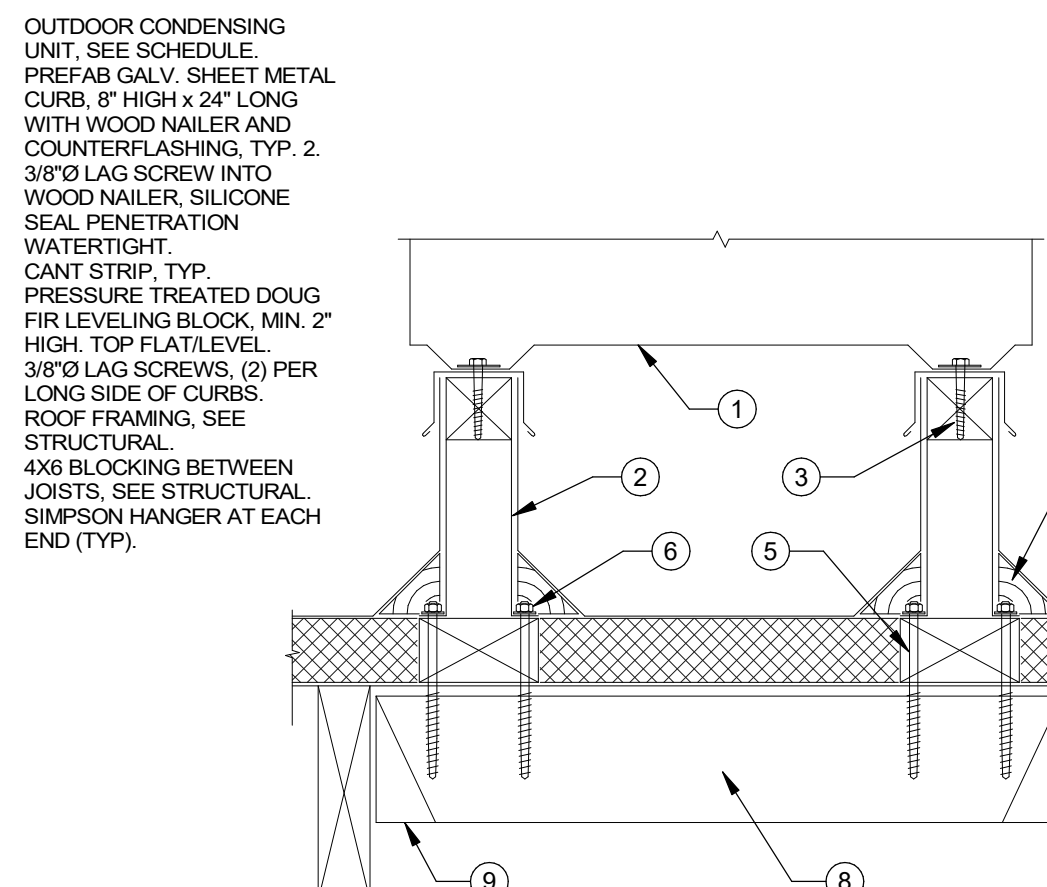
GREASE DUCT ACCESS DOOR DETAIL

NTS 9



INLINE EXHAUST FAN MOUNTING

NTS 10



OUTDOOR UNIT MOUNTING (Wood)

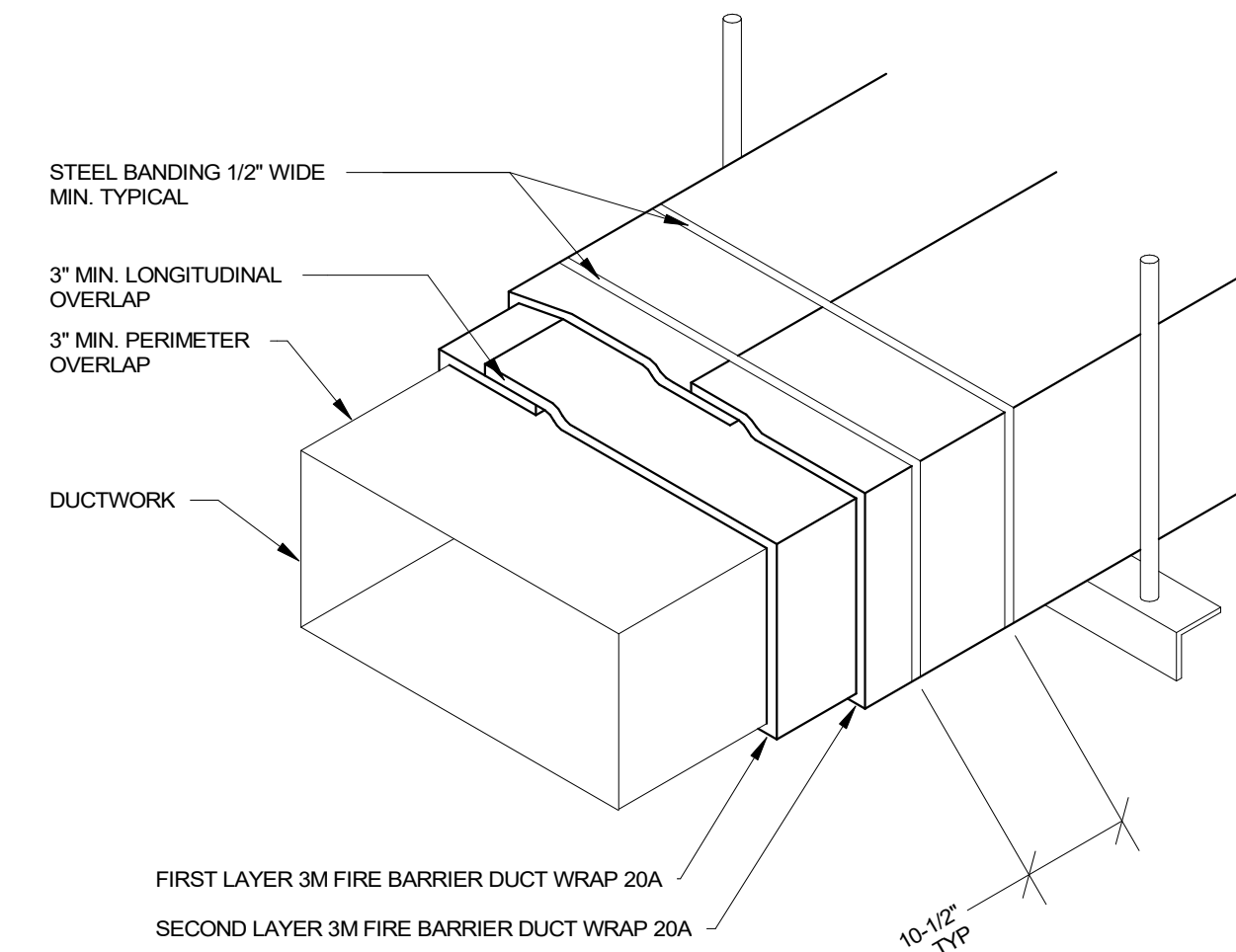
NTS 11

DIMENSION OF LONGEST SIDE INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS & OR INTERMEDIATE REINFORCING	TRANSVERSE REINFORCING (1)				
			AT JOINTS				
			MIN. HT. IN.	DRIVE SLIP	HEMME D S SLIP	ALTERN T BAR SLIP	REIN-FROCED BAR SLIP
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 - 18	24	NONE REQUIRED	1	24	24	24	24
19 - 30	24	1" x 1" x 1/8" @ 60 IN.	1	24	24	24	24
31 - 42	22	1" x 1" x 1/8" @ 60 IN.	1	22	22	22	22

(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

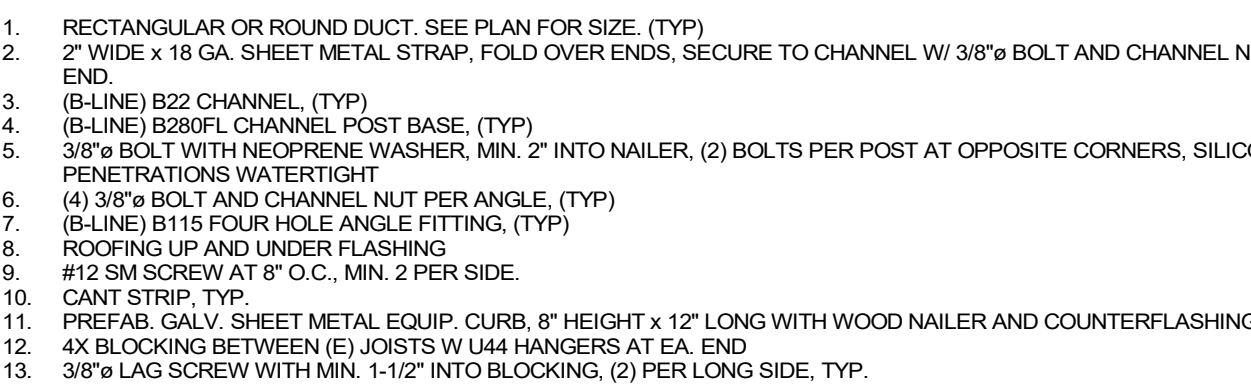
DUCT CONSTRUCTION STANDARDS

NTS 5



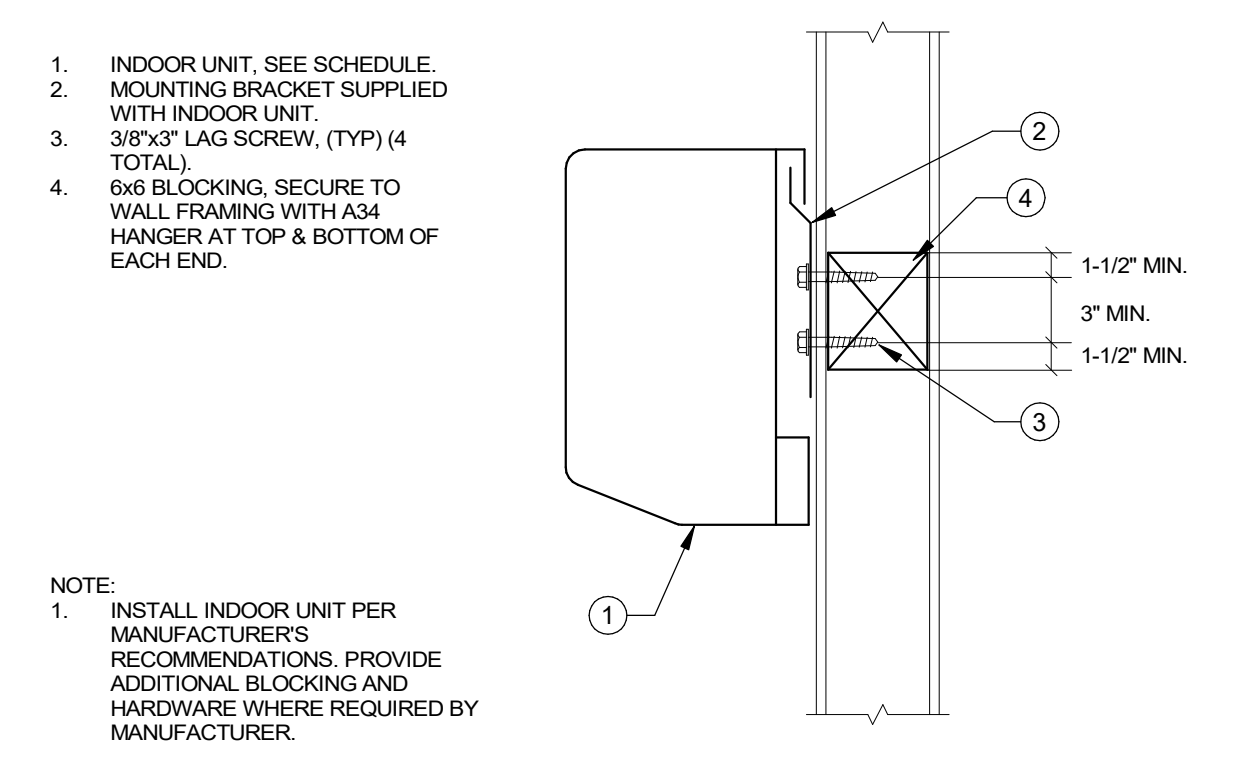
DUCT FIRE WRAP DETAIL

NTS 6



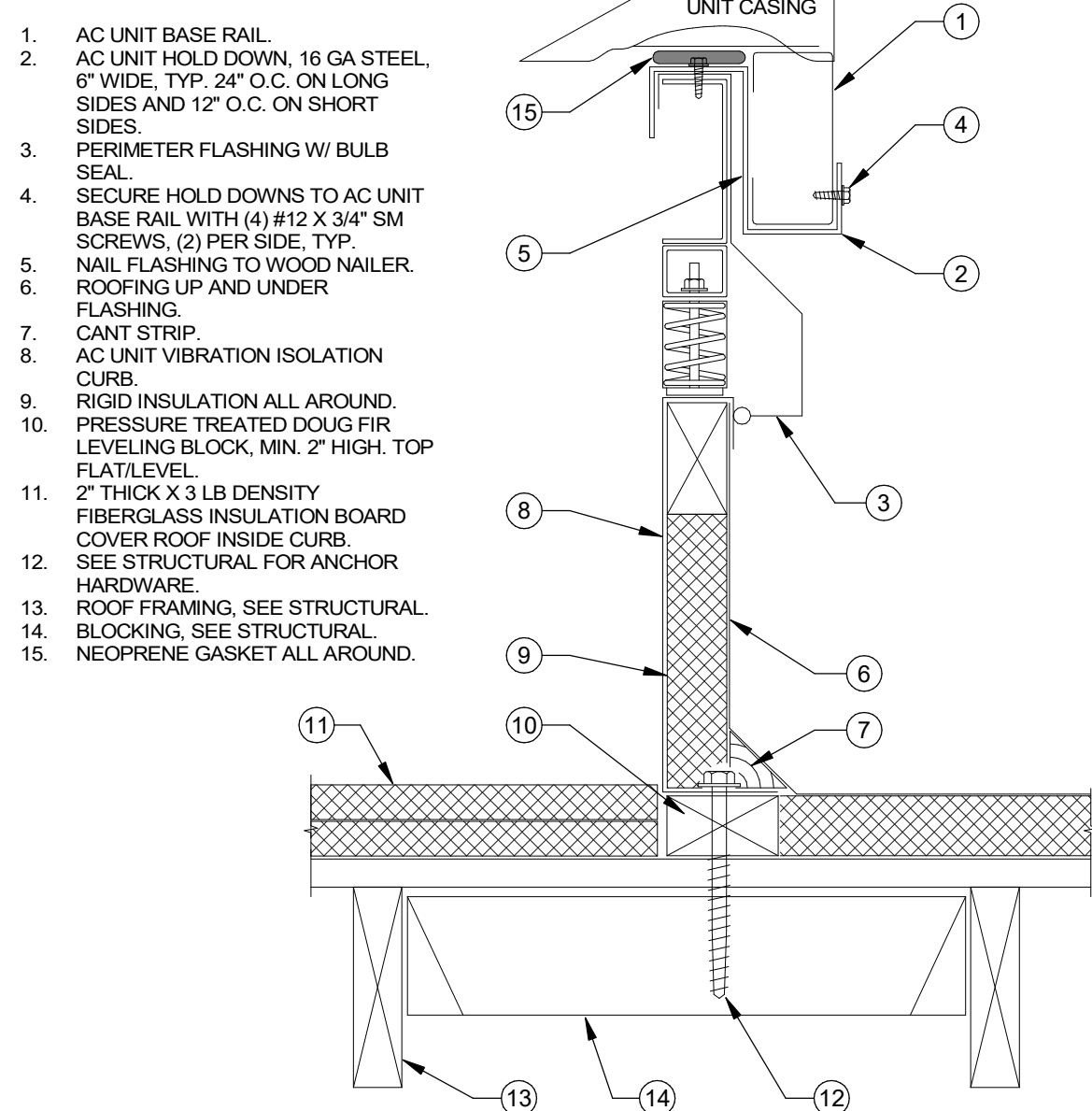
DUCT SUPPORT ON ROOF

NTS 7



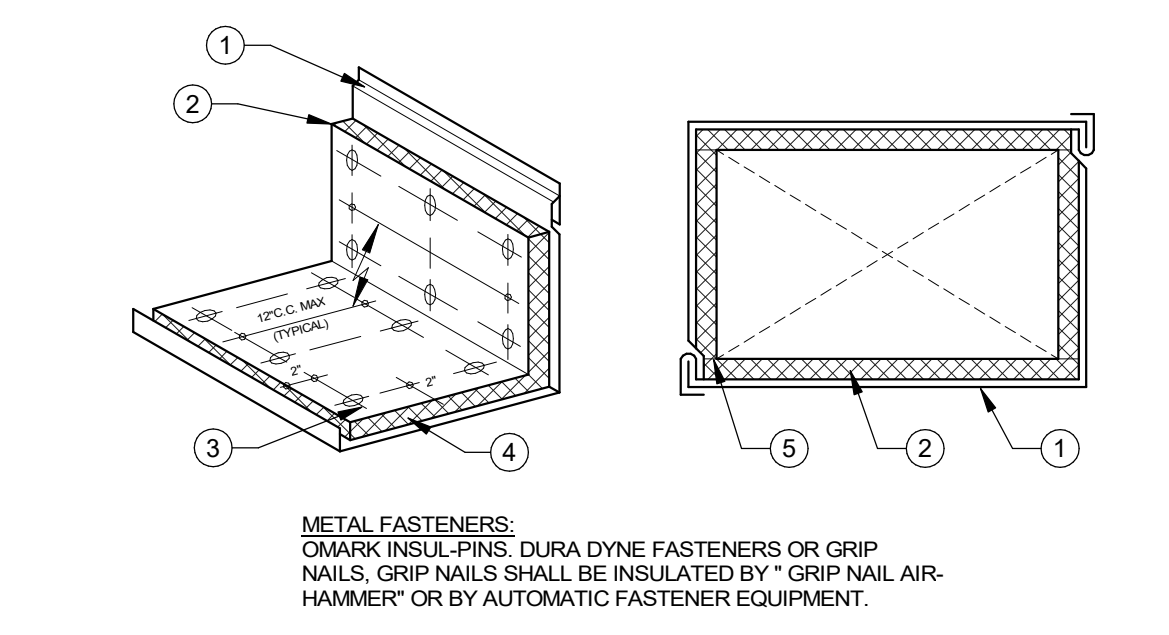
INDOOR UNIT WALL MOUNTING

NTS 8



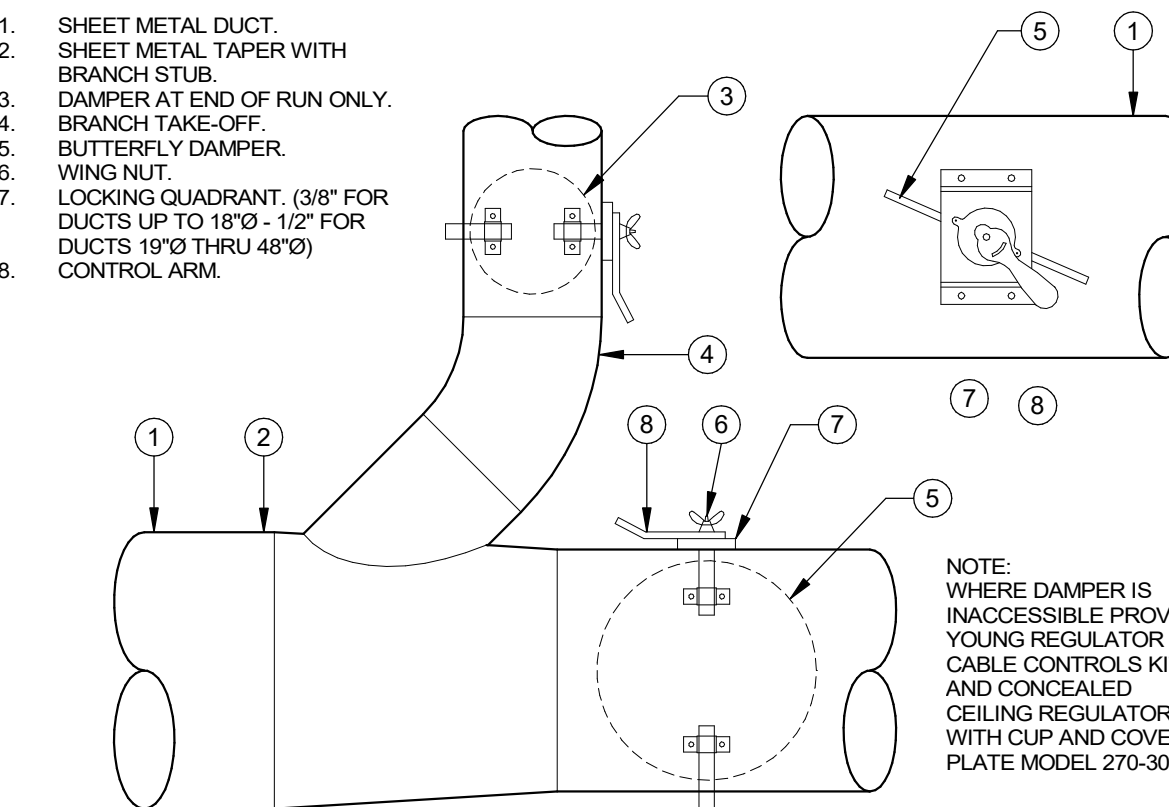
AC UNIT MOUNTING (ISOLATION CURB)

NTS 1



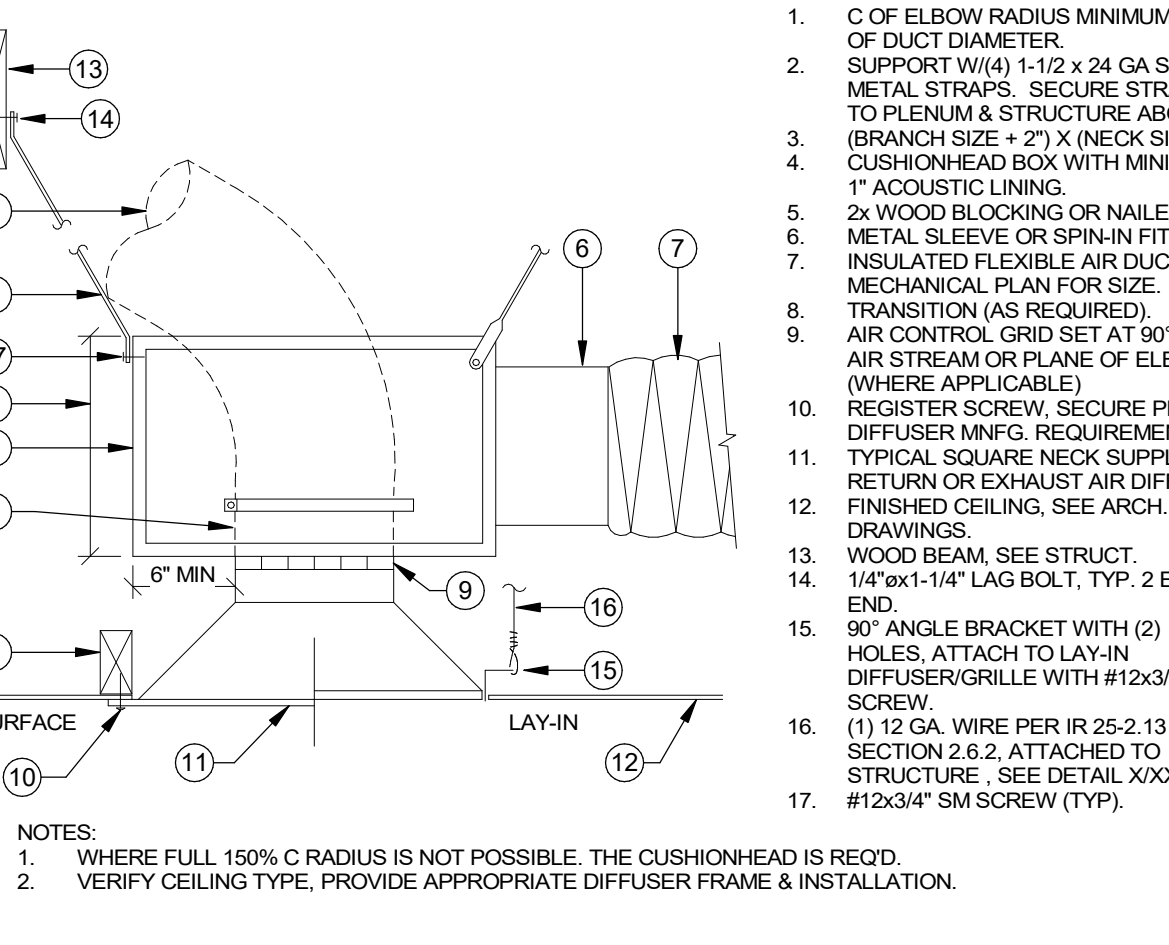
ACOUSTIC LINED DUCTS

NTS 2



BRANCH DUCT DAMPER

NTS 3



DIFFUSER / GRILLE MOUNTING

NTS 4

DSA STAMP

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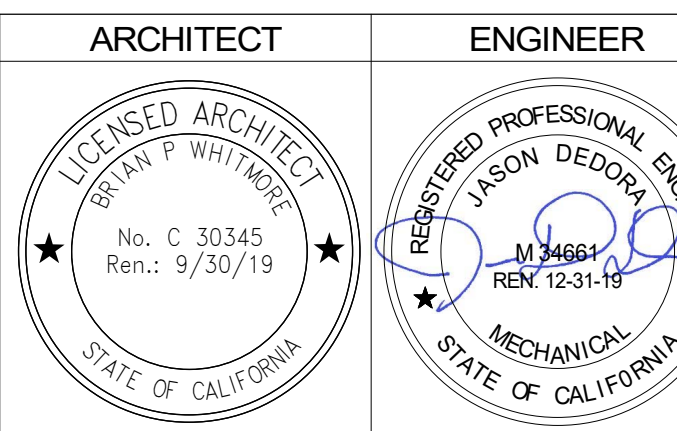
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DRAWING STATUS	DATE
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KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

MECHANICAL DETAILS

Date

05/20/2019

Scale

As indicated

Drawn

Author

Project Number

19003

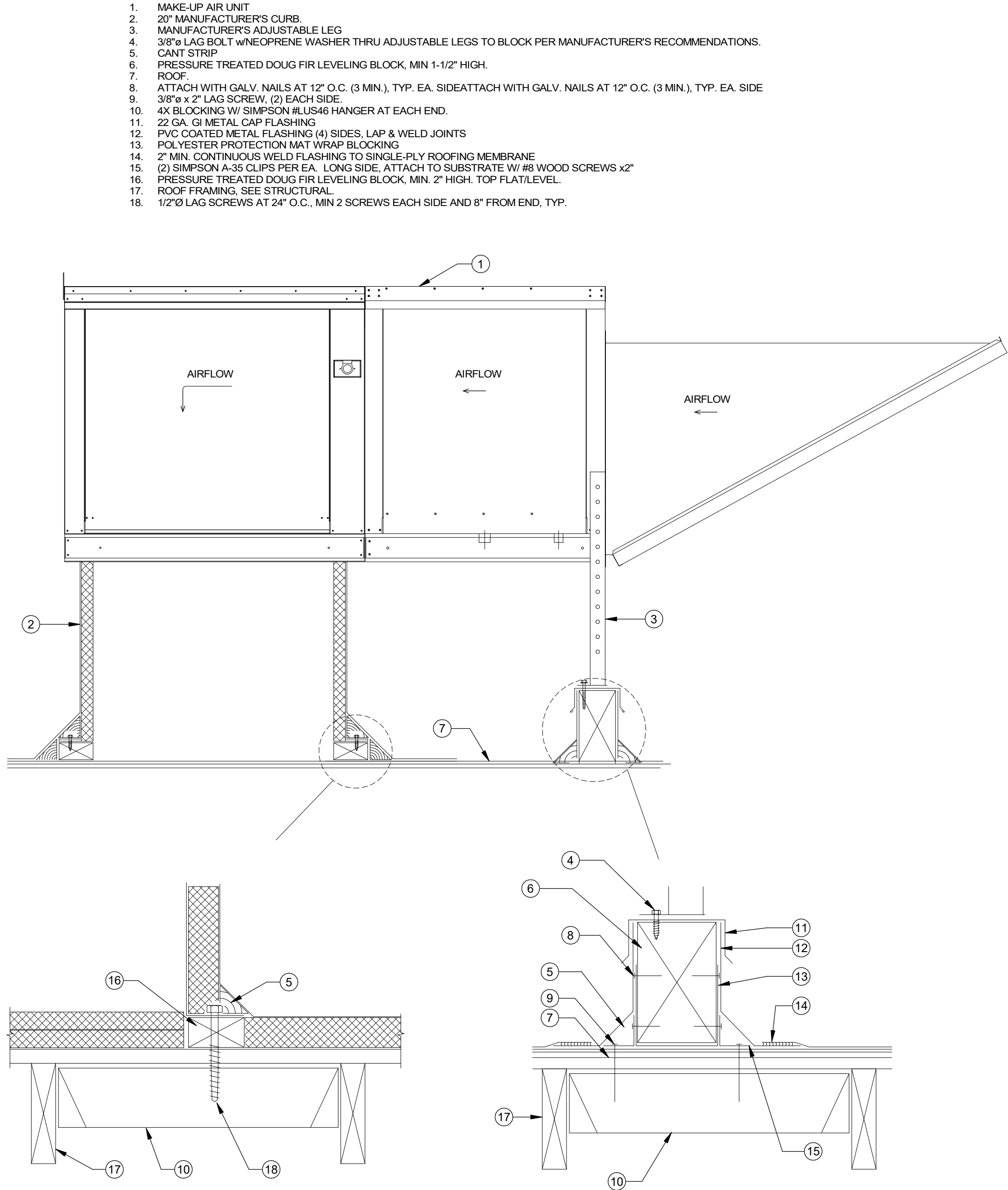
Drawing Number

M0.3

Checked

Checker

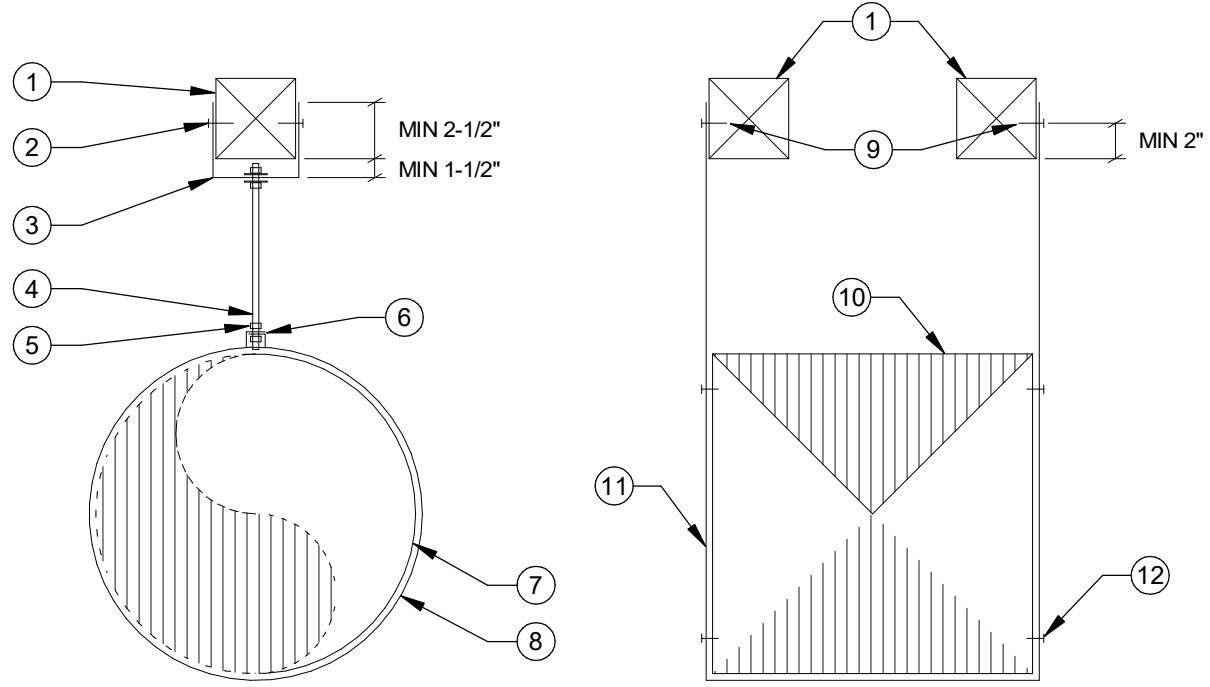




MAKE-UP AIR UNIT MOUNTING

NTS 1

1. 4x4 BLOCKING BETWEEN JOISTS WITH H-44 HANGERS AT EACH END, TYP. PROVIDE WEB STIFFN EA. SIDE OF JOIST @ HANGERS PER DETAIL-151.4.  
2. #12x1-1/2" WOOD SCREWS, 2 PER SIDE.  
3. 3" WIDE x 16 GA BENT PLATE.  
4. 3/8" THREADED ROD @ 8" O.C. MAX.  
5. 3/8" NUT & 2" WASHER, TYP. TOP AND BOTTOM OF FLANGE.  
6. 2-1/2" WIDE X 20 GA STRAP WITH MIN. 3"x2" HIGH FLANGE, TYP.  
7. ROUND DUCT.  
8. 2-1/2" x 20 GA STRAP.  
9. 1/4"x2x1-1/4" LAG BOLT, TYP. 2 EACH END.  
10. RECTANGULAR DUCT.  
11. 1-1/2" x 20 GA STRAP AROUND DUCT.  
12. #12x3/4" SM SCREW, TYP. 2 EACH SIDE.



- NOTE:  
1. BLOCKING CONDITION IS SHOWN, 2x JOIST CONDITION IS SIMILAR WITH STRAPS AND LAG BOLTS ATTACHING DIRECTLY TO 2x ROOF JOISTS.  
2. PROVIDE SEISMIC DUCT SUPPORTS WHERE DUCTWORK IS LARGER THAN 6 SF (33'²) AND/OR SUSPENDED MORE THAN 12" FROM TOP OF DUCT TO BOTTOM OF ATTACHMENT TO STRUCTURE PER SMACNA GUIDELINES.

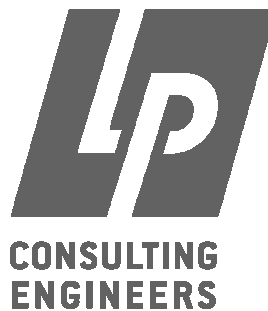
TYPICAL DUCT SUPPORT

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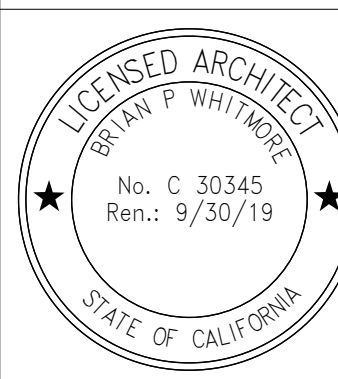
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KEY PLAN

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DESIGN DEVELOPMENT

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SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
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MECHANICAL DETAILS

Date

05/20/2019

Scale

1/4" = 1'-0"

Drawn

Author

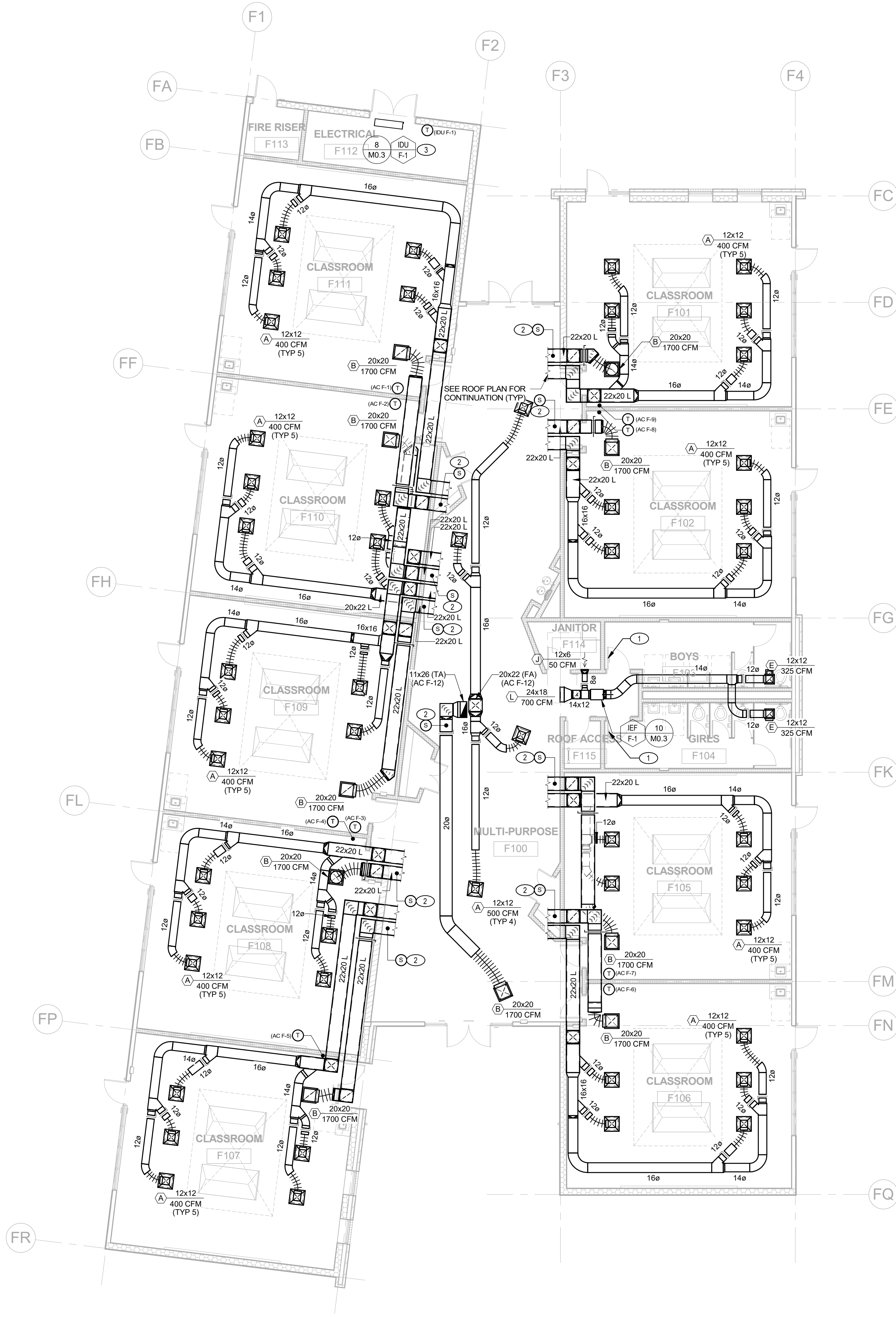
Project Number

19003

Drawing Number

M0.4





**1 BLDG F - MECHANICAL FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

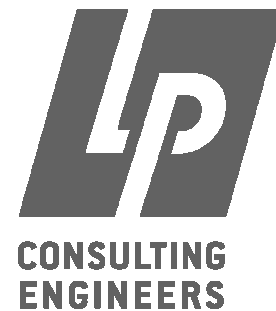
**KEY NOTES**

- 24X12 DOOR LOUVER. SEE ARCHITECTURAL DOOR SCHEDULE.
- RETURN AIR SENSOR.
- FAN COIL TO BE MOUNTED ABOVE DOOR.

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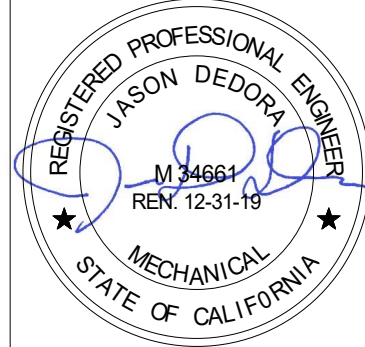
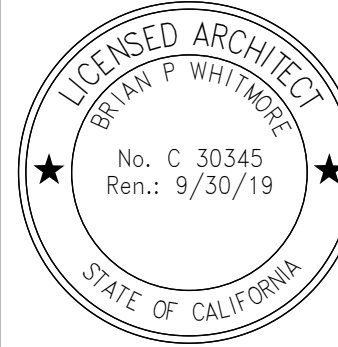
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**BUILDING F MECHANICAL  
FLOOR PLAN**

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

Author

Project Number

19003

Drawing Number

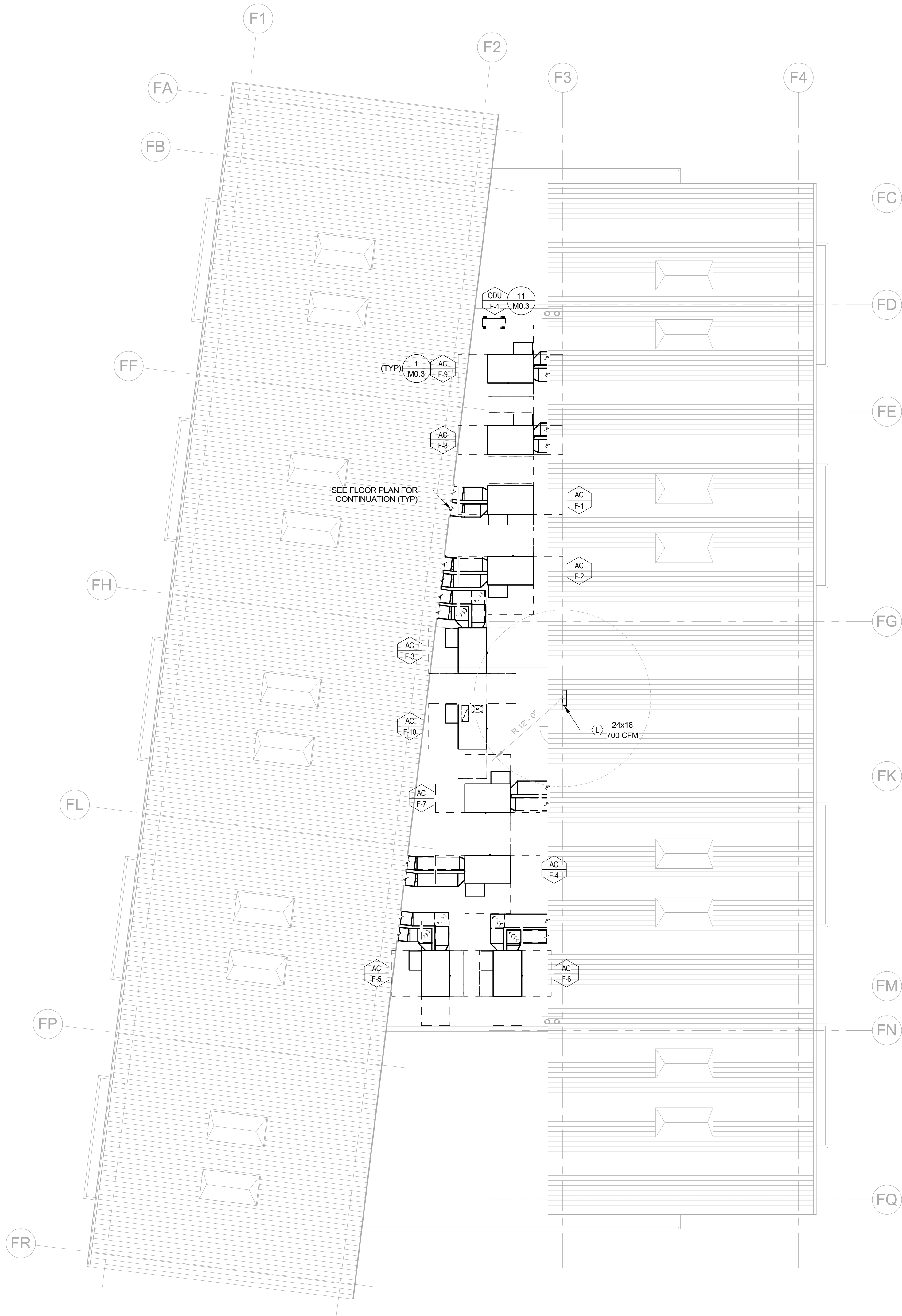
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Checked

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KEY NOTES



**1 BLDG F - MECHANICAL ROOF PLAN**  
SCALE: 1/8" = 1'-0"

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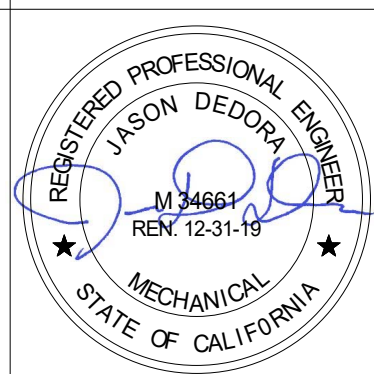
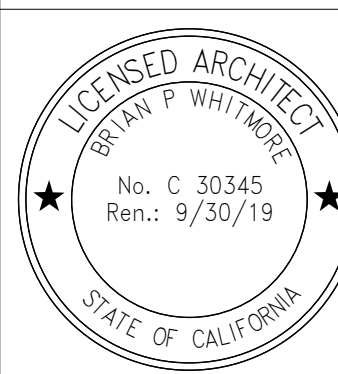
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**BUILDING F MECHANICAL  
ROOF PLAN**

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

Author

Project Number

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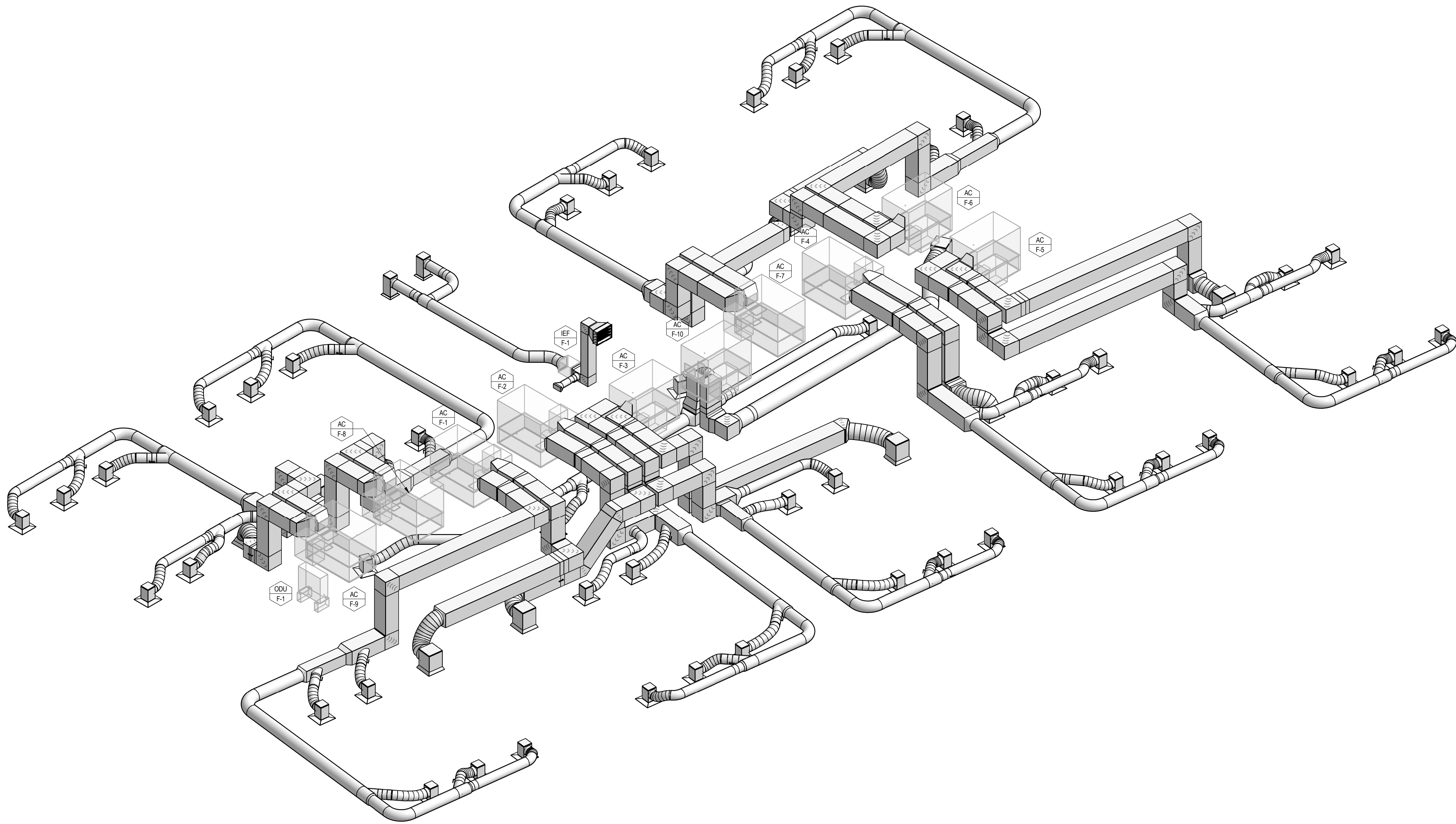
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1 BLDG F - MECHANICAL ISOMETRIC  
SCALE:

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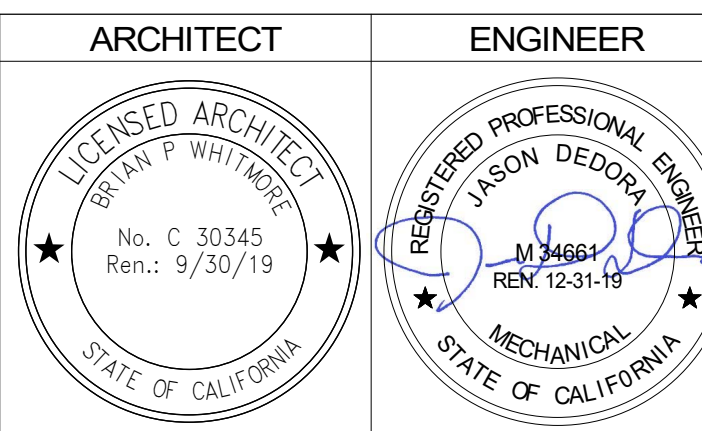


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BLDG F - MECHANICAL  
ISOMETRIC

Date

05/20/2019

Scale

Project Number

19003

Drawing Number

Drawn

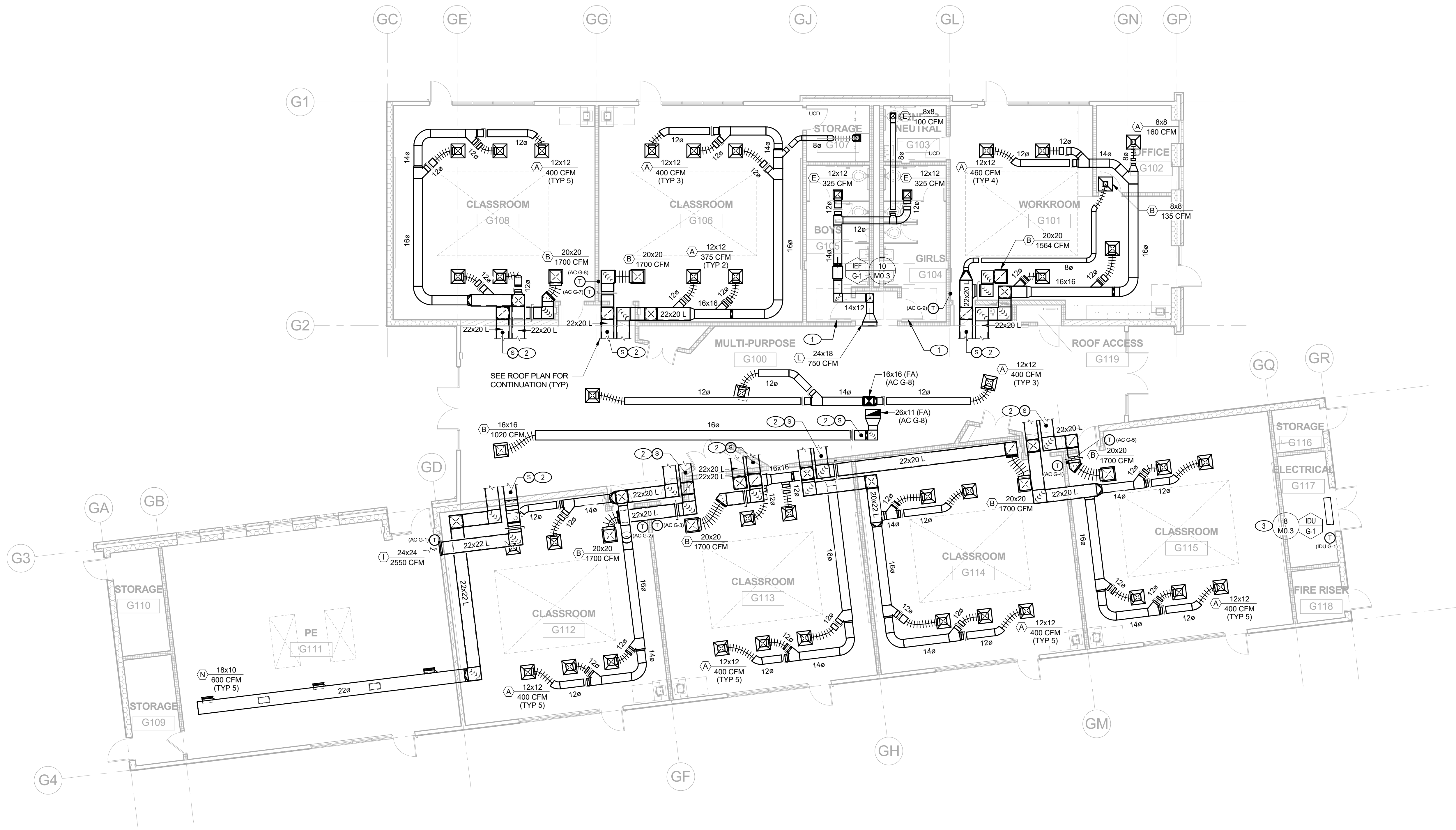
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MF5.1





**1 BLDG G - MECHANICAL FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

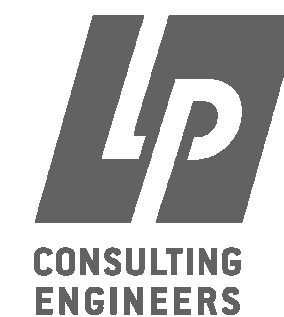
- KEY NOTES**
- 24X12 DOOR LOUVER. SEE ARCHITECTURAL DOOR SCHEDULE.
  - RETURN AIR SENSOR.
  - FAN COIL TO BE MOUNTED ABOVE DOOR.

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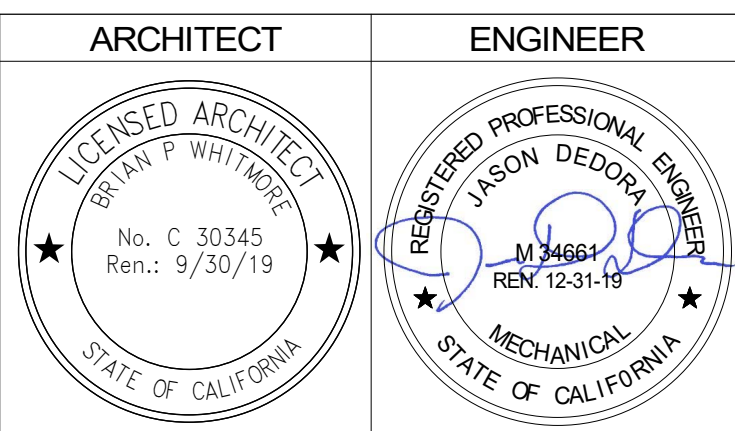
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ADDITION  
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**BUILDING G MECHANICAL  
FLOOR PLAN**

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

Author

Project Number

19003

Drawing Number

MG2.1

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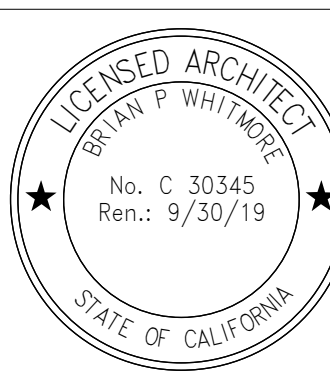
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BUILDING G MECHANICAL  
ROOF PLAN

Date

05/20/2019

Scale

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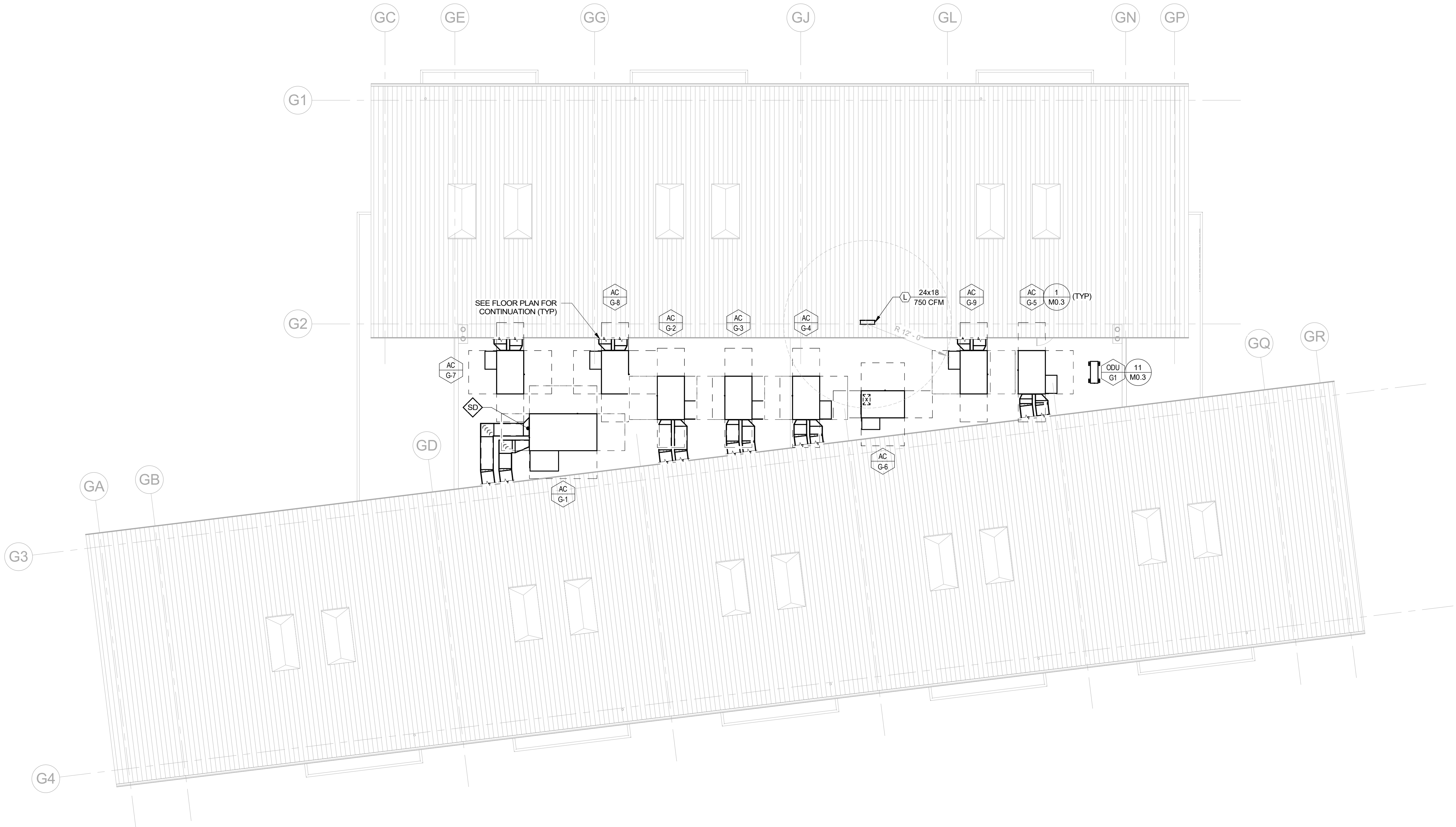
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Drawing Number

MG4.1

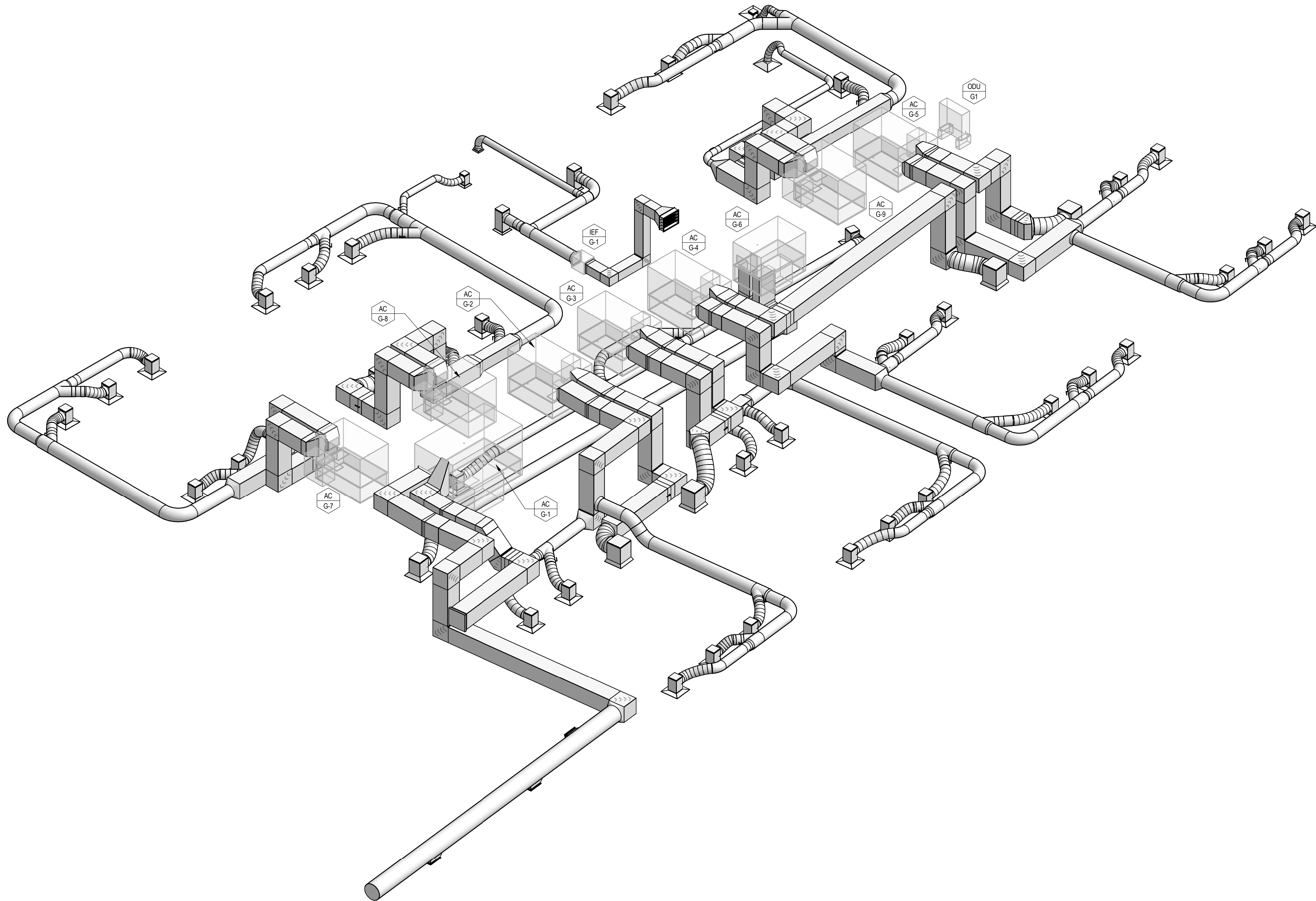
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1 BLDG G - MECHANICAL ROOF PLAN  
SCALE: 1/8" = 1'-0"





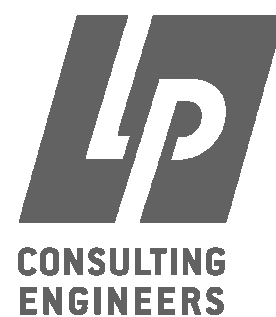
**1 BLDG G - MECHANICAL ISOMETRIC**  
SCALE:

DSA STAMP

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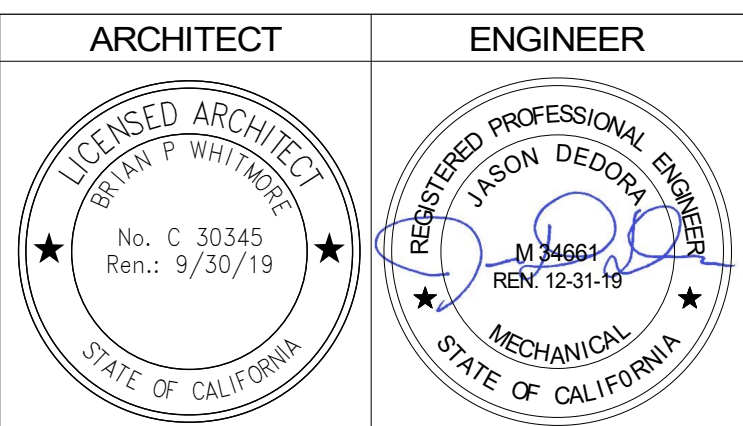
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BLDG G - MECHANICAL  
ISOMETRIC

Date

05/20/2019

Scale

Project Number

19003

Drawing Number

Drawn

Checked

Author

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MG5.1



- 1 KITCHEN HOOD, SEE FOOD SERVICE DRAWINGS.
- 2 MECHANICAL CONTRACTOR TO PROVIDE DUCT ACCESS OPENINGS AT THE SIDES OF THE DUCT AT CHANGES OF DIRECTION. OPENINGS SHALL BE PROTECTED BY APPROVED ACCESS PANELS THAT ARE IN ACCORDANCE WITH CMC SECTION 510.3.
- 3 GREASE DUCT TO BE FIRE WRAPPED.



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	<input type="radio"/> DSA BACK CHECK	05/20/2019
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## KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

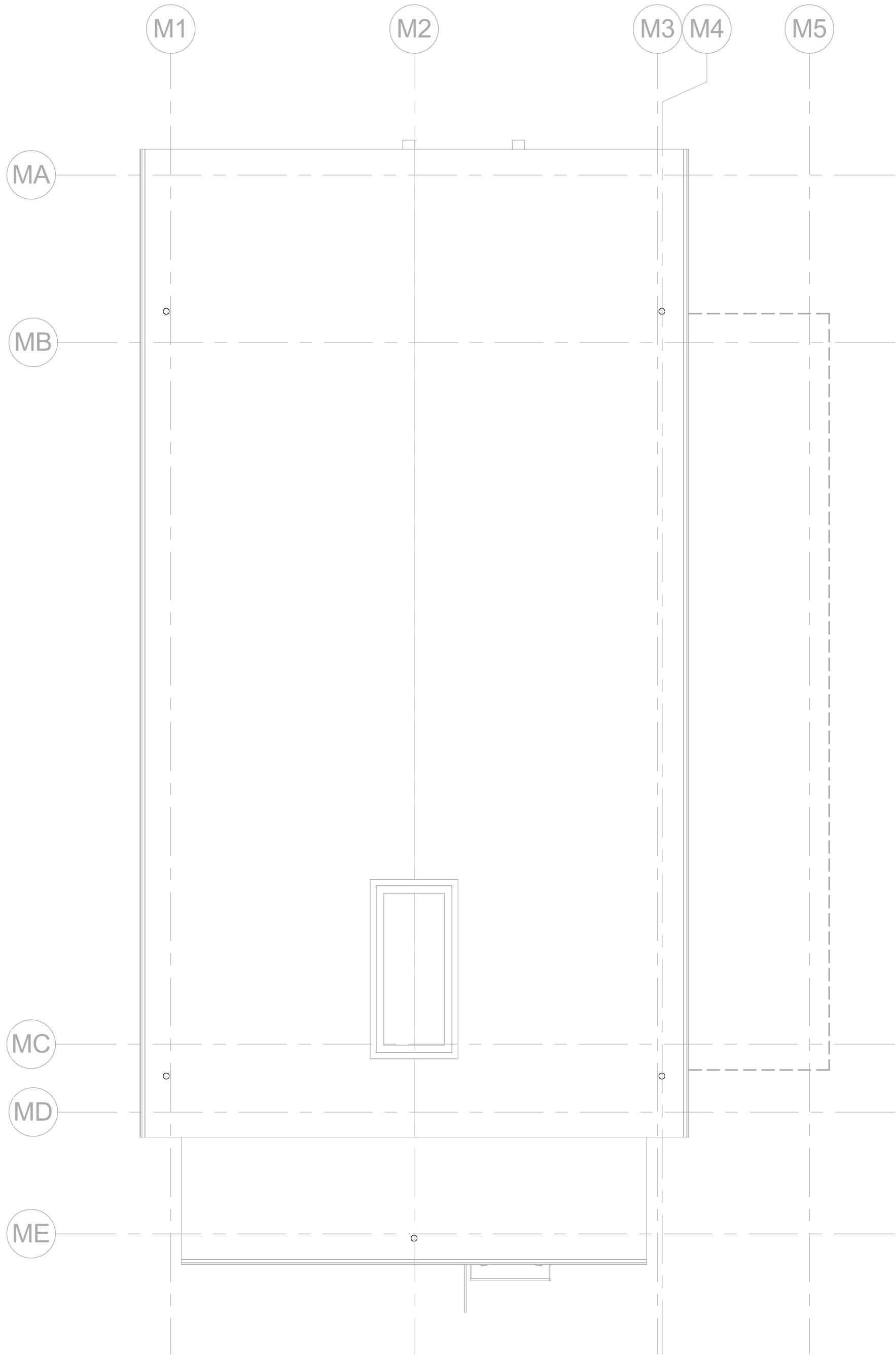
DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

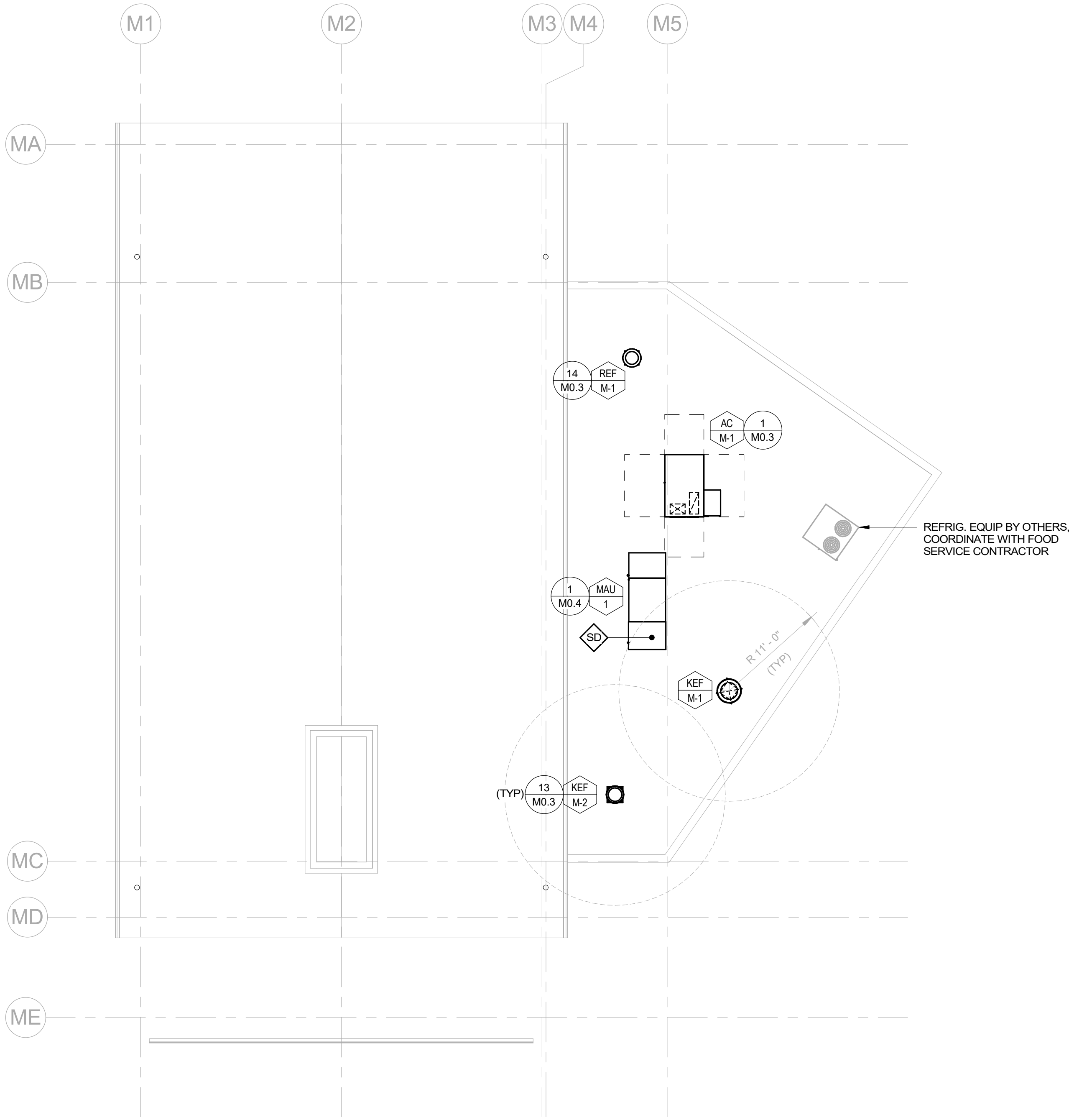
BUILDING M MECHANICAL  
FLOOR PLAN

Date	Project Number
05/20/2019	19003
Scale	Drawing Number
1/8" = 1'-0"	MM2.1
Drawn	Checked
Author	Checker





1 BLDG M - MECHANICAL DEMO ROOF PLAN  
SCALE: 1/8" = 1'-0"



2 BLDG M - MECHANICAL ROOF PLAN  
SCALE: 1/8" = 1'-0"

KEY NOTES

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architecture  
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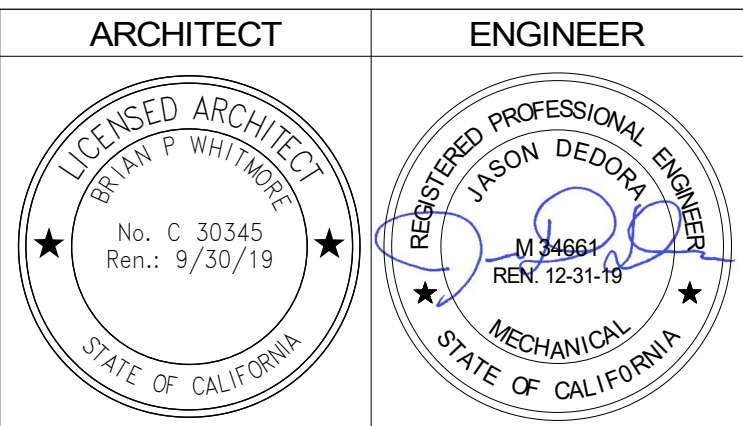
BCA Architects  
980 9th St. Suite 2050  
Sacramento, California 95814  
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REVISION HISTORY	NO.		REMARKS	DATE

DRAWING STATUS	DATE	
<input checked="" type="radio"/> DSA PLAN CHECK		05/20/2019
<input type="radio"/> DSA BACK CHECK		
<input type="radio"/> BIDDING		
<input type="radio"/> CONSTRUCTION		

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

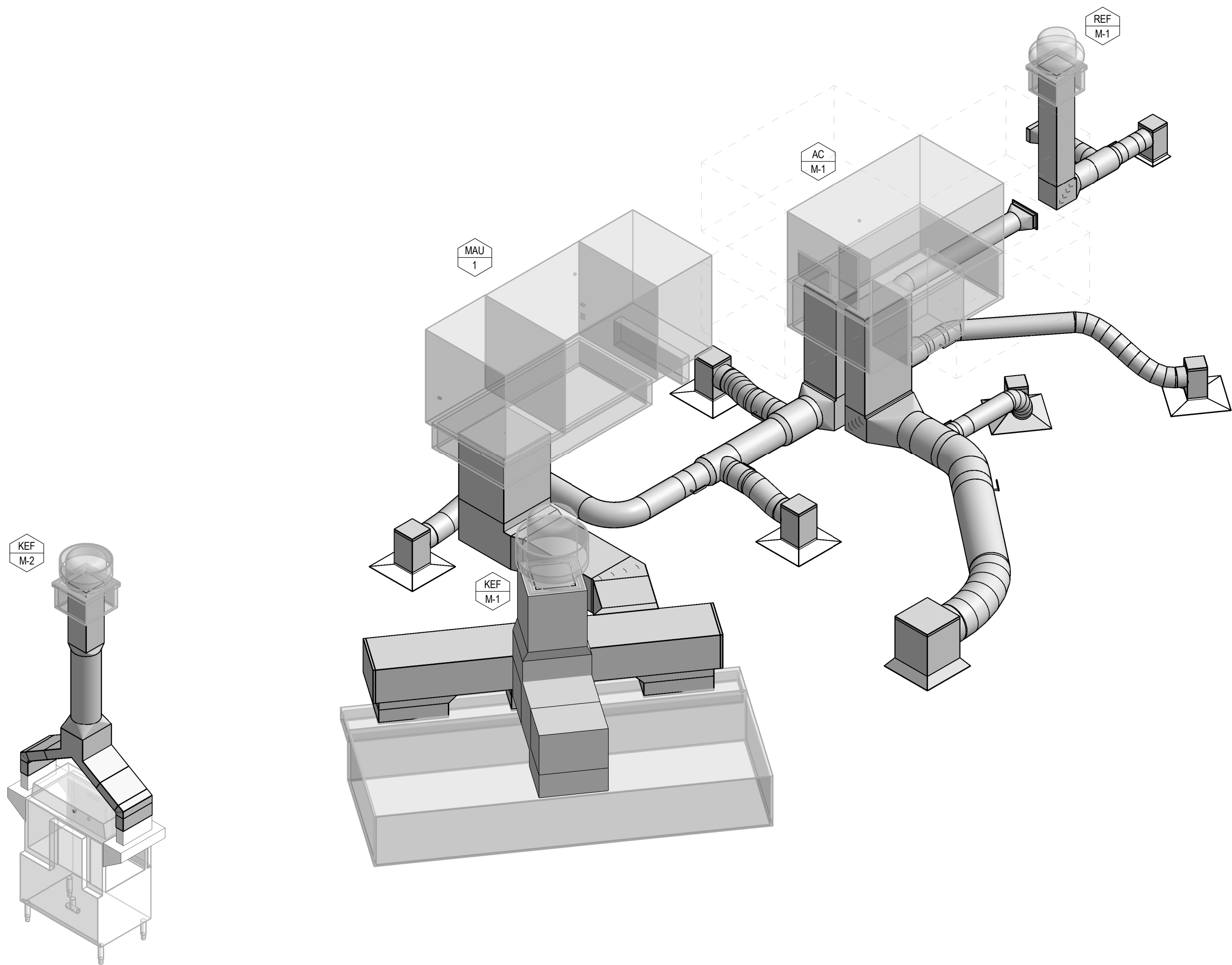
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SCHOOL  
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ADDITION  
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WEST SACRAMENTO, CA 95691

BUILDING M MECHANICAL  
ROOF PLAN

Date 05/20/2019	Project Number 19003
Scale 1/8" = 1'-0"	Drawing Number MM4.1
Drawn Author	Checked Checker





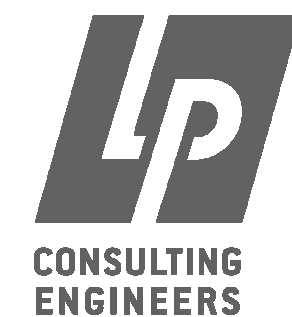
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SCALE:

DSA STAMP

**BCA**

architecture  
planning  
interiors

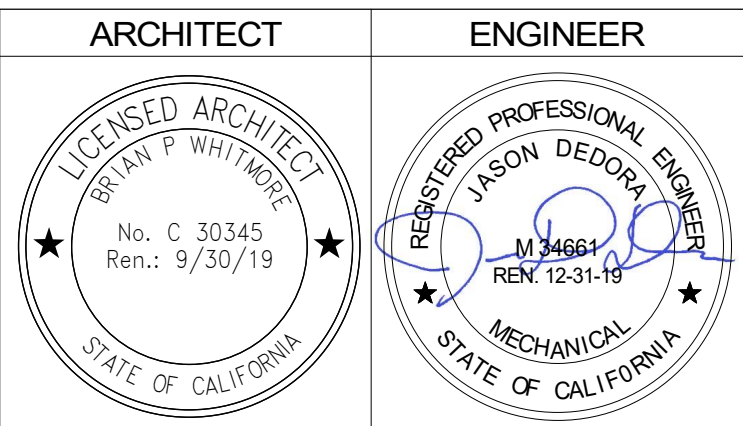
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DESIGN DEVELOPMENT

WESTMORE OAKS  
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ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BLDG M - MECHANICAL  
ISOMETRIC

Date

05/20/2019

Scale

Drawn

Author

Project Number

19003

Drawing Number

MM5.1

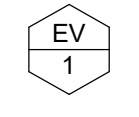
Checked

Checker



RAINWATER PIPE SIZING				
PROJECT LOCATION		WEST SACRAMENTO, CA		
MAXIMUM RAINFALL RATE		3"/HR		
ROOF DRAIN SIZE (IN INCHES)	MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREA FOR HORIZONTAL RAINWATER PIPING	MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREA FOR HORIZONTAL RAINWATER PIPING	MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREA FOR HORIZONTAL RAINWATER PIPING	MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREA FOR HORIZONTAL RAINWATER PIPING
	(SLOPE: 1/4" = 1'-0")	(SLOPE: 1/4" = 1'-0")	(SLOPE: 1/8" = 1'-0")	(SLOPE: 1/8" = 1'-0")
2"	725 SQ FT	N/A	N/A	
3"	2,147 SQ FT	1,546 SQ FT	1,096 SQ FT	
4"	4,613 SQ FT	3,533 SQ FT	2,506 SQ FT	
6"	13,600 SQ FT	10,066 SQ FT	7,133 SQ FT	
8"	29,333 SQ FT	21,733 SQ FT	15,330 SQ FT	
* AS PER 2016 CALIFORNIA PLUMBING CODE TABLE 1101.8 & 1101.12				

GAS PRESSURE REGULATOR SCHEDULE		
MARK	V	DESCRIPTION
GPR-B1	1"	MAXITROL #325-5L GAS PRESSURE REGULATOR WITH 1/2" GAS OUTLET, INLET PRESSURE OF 2 PSIG, OUTLET PRESSURE OF 7" W.C. MAXIMUM CAPACITY OF 500 SCFH. ANSI Z21.80 CERTIFIED GAS APPLIANCE PRESSURE REGULATOR.
GPR-C1	1"	MAXITROL #325-5L GAS PRESSURE REGULATOR WITH 1/2" GAS OUTLET, INLET PRESSURE OF 2 PSIG, OUTLET PRESSURE OF 7" W.C. MAXIMUM CAPACITY OF 500 SCFH. ANSI Z21.80 CERTIFIED GAS APPLIANCE PRESSURE REGULATOR.
GPR-D1	1"	MAXITROL #325-5L GAS PRESSURE REGULATOR WITH 1/2" GAS OUTLET, INLET PRESSURE OF 2 PSIG, OUTLET PRESSURE OF 7" W.C. MAXIMUM CAPACITY OF 500 SCFH. ANSI Z21.80 CERTIFIED GAS APPLIANCE PRESSURE REGULATOR.
GPR-E1	1"	MAXITROL #325-5L GAS PRESSURE REGULATOR WITH 1/2" GAS OUTLET, INLET PRESSURE OF 2 PSIG, OUTLET PRESSURE OF 7" W.C. MAXIMUM CAPACITY OF 500 SCFH. ANSI Z21.80 CERTIFIED GAS APPLIANCE PRESSURE REGULATOR.
GPR-F1	1"	MAXITROL #325-7AL GAS PRESSURE REGULATOR WITH 1-1/4" GAS OUTLET, INLET PRESSURE OF 2 PSIG, OUTLET PRESSURE OF 7" W.C. MAXIMUM CAPACITY OF 1250 SCFH. ANSI Z21.80 CERTIFIED GAS APPLIANCE PRESSURE REGULATOR.
GPR-G1	1"	MAXITROL #325-7AL GAS PRESSURE REGULATOR WITH 1-1/4" GAS OUTLET, INLET PRESSURE OF 2 PSIG, OUTLET PRESSURE OF 7" W.C. MAXIMUM CAPACITY OF 1250 SCFH. ANSI Z21.80 CERTIFIED GAS APPLIANCE PRESSURE REGULATOR.
GPR-H1	1"	MAXITROL #325-9L GAS PRESSURE REGULATOR WITH 1-1/2" GAS OUTLET, INLET PRESSURE OF 2 PSIG, OUTLET PRESSURE OF 7" W.C. MAXIMUM CAPACITY OF 2250 SCFH. ANSI Z21.80 CERTIFIED GAS APPLIANCE PRESSURE REGULATOR.

EARTHQUAKE VALVE SCHEDULE	
	FIREFIGHTER GAS VALVE PRODUCTS EARTHQUAKE VALVE, MODEL AGV-300, 3" PIPE SIZE, 10 PSI MAX PRESSURE, CSA APPROVED. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

PLUMBING EQUIPMENT SCHEDULE						
TYPE	MARK	FIXTURE	S or W	V	CW	HW
CP	M1	CIRCULATION PUMP	---	---	---	3/4"
ET	F1	EXPANSION TANK	---	---	3/4"	---
ET	M1	EXPANSION TANK	---	---	3/4"	---
GI	1	GREASE INTERCEPTOR	4"	2"	---	---
HT	M1	HEAT TRACE COOLER BOX	---	---	---	---
IWH	G1	INSTANTANEOUS WATER HEATER	---	---	1/2"	1/2"
IWH	G2	INSTANTANEOUS WATER HEATER	---	---	1/2"	1/2"
IWH	G3	INSTANTANEOUS WATER HEATER	---	---	1/2"	1/2"
WH	F1	ELECTRIC WATER HEATER	---	---	3/4"	3/4"
WH	M-1	GAS WATER HEATER	---	---	1-1/2"	1-1/2"

BELL & GOSSETT MODEL NBF-25, IN-LINE WET ROTOR CIRCULATION PUMP WITH LEAD-FREE BRONZE BODY, UNION CONNECTION, 5.0 GPM FLOW AT 8 FT TDH, 125 WATT, 1.1 FLA, 115V/1A ELECTRICAL SERVICE, PUMP CONTROLLED BY BELL & GOSSETT MODEL RAGE-34 AQUASTAT WITH 115/120 VAC, 1PH ELECTRICAL CONNECTION, AQUASTAT TO TURN ON AT 115°F AND TURN OFF AT 127°F. BAG AUTOMATIC TIMER KIT #TC-1.

BELL & GOSSETT MODEL PT-5, STEEL SHELL, BUTYL DIAPHRAGM TYPE EXPANSION TANK, PRE-CHARGED TO 40 PSI WITH 2.0 GALLON TANK CAPACITY, 0.9 GALLON ACCEPTANCE CAPACITY.

BELL & GOSSETT MODEL PT-12, STEEL SHELL, BUTYL DIAPHRAGM TYPE EXPANSION TANK, PRE-CHARGED TO 40 PSI WITH 4.4 GALLON TANK CAPACITY, 3.2 GALLON ACCEPTANCE CAPACITY.

JENSEN MODEL #P75PEE-G, 750 GAL. GREASE INTERCEPTOR WITH (3) 24"x14"x20" TRAFFIC RATED GAS TIGHT MANHOLE COVERS BROUGHT TO GRADE, PROVIDE JENSEN PRECAST MODEL #AGE-34 AQUASTAT WITH 115/120 VAC, 1PH ELECTRICAL CONNECTION, AQUASTAT TO TURN ON AT 115°F AND TURN OFF AT 127°F. BAG AUTOMATIC TIMER KIT #TC-1.

RAYCHEM XL TRACE 5X1-CR HEAT TRACE WITH PENTAIR "DIGITRACE" RAYSTAT-EX-03A LINE SENSING ELECTRONIC THERMOSTAT MOUNTED ON WALL, IN FREEZER, INSTALL PER MANUFACTURER'S INSTRUCTIONS, PROVIDE 15 AMP, 120 VAC.

CHRONOMITE #SR-40208 TANKLESS WATER HEATER, 208V/16.40 AMP ELECTRICAL SERVICE, 8320w, 0.65 GPM ACTIVATION, 57 F RISE @ 1.0 GPM, PROVIDE OPTIONAL STAINLESS STEEL HOUSING, INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

CHRONOMITE #SR-40208 TANKLESS WATER HEATER, 208V/16.40 AMP ELECTRICAL SERVICE, 8320w, 0.65 GPM ACTIVATION, 57 F RISE @ 1.0 GPM, PROVIDE OPTIONAL STAINLESS STEEL HOUSING, INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

CHRONOMITE #SR-20,208 TANKLESS WATER HEATER, 208V/16.40 AMP ELECTRICAL SERVICE, 4100w, 0.35 GPM ACTIVATION, 71 F RISE @ 0.4 GPM, PROVIDE OPTIONAL STAINLESS STEEL HOUSING, INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

A.O. SMITH MODEL DEL-15, STORAGE TANK TYPE, 15 GALLON CAPACITY, 20 GPH RECOVERY AT 80° F RISE, (2) 4 KW NON-SIMULTANEOUS ELEMENT OPERATION 4 KW MAXIMUM, 200W/6, 19.5 FLA ELECTRICAL SERVICE, UL LISTED, OPERATING WEIGHT 130 LBS.

A.O. SMITH MODEL BTH-250 MA, STORAGE TANK TYPE, 100 GALLON CAPACITY, 323 GPH RECOVERY AT 90° F RISE, 250,000 BTUH INPUT, 90% THERMAL EFFICIENCY, MEETS OR EXCEEDS U.S. DOE, ASHRAE 90.1 AND CEC/MDOE RULE 114.2 REQUIREMENTS, PROVIDE OPTIONAL POWER-DIRECT VENT AND CONCENTRIC VENT KIT TERMINATION, 120VAC/60HZ ELECTRICAL SERVICE, 22 FLA, 4MPS BLOWER, 4.0 AMPS CENTER, UL LISTED, PROVIDE CONDENSATE NEUTRALIZATION KIT, 1.400 LB OPERATING WEIGHT.

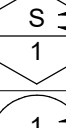
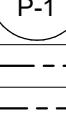
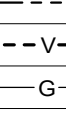
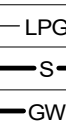
















































PIPE HANGER SCHEDULE					
PER 2016 CPC TABLE 313.3, 313.6					
PIPING MATERIAL	PIPE SIZE	HORIZONTAL		VERTICAL	
		MAXIMUM INTERVAL		MAXIMUM INTERVAL	
COPPER TUBE & PIPE, SOLDERED, BRAZED OR WELDED	LESS THAN 1-1/2"	3/8"	6'	EVERY FLOOR, NOT TO EXCEED 10'	
	2-4"	3/8"	10'		
	4-6"	1/2"	10'		
	10-12"	5/8"	10'		
GAS PIPING, STEEL, OR BRASS, THREADED OR WELDED	1/2"	3/8"	6'	6'	
	3/4"-1"	3/8"	8'	8'	
	1-1/4"-4"	3/8"	10'	EVERY FLOOR, NOT TO EXCEED 15' (TYP)	
	5-8"	1/2"	10'		
CAST IRON, HUBLESS	LESS THAN 1-1/2"	3/8"	EVERY OTHER JOINT, UNLESS OTHERWISE NOTED	AT BASE AND AT EVERY FLOOR, NOT TO EXCEED 15'	
	2-4"	3/8"			
	5-8"	1/2"	THIS CASE, SUPPORT PER NOTES 1-4.		
	10-12"	5/8"			
1. SUPPORT ADJACENT TO JOINT, NOT TO EXCEED 18". 2. BRACE AT NOT MORE THAN 40' INTERVALS TO PREVENT HORIZONTAL MOVEMENT. 3. SUPPORT AT EACH HORIZONTAL BRANCH. 4. HANGERS SHALL NOT BE PLACED ON PIPE COUPLINGS. 5. VERTICAL WATER LINES MAY BE SUPPORTED IN ACCORDANCE WITH RECOGNIZED ENGINEERING PRINCIPLES WITH REGARD TO EXPANSION AND CONTRACTION, WHEN FIRST APPROVED BY THE ADMINISTRATIVE AUTHORITY.					

PIPING MATERIAL SCHEDULE					
SYSTEM	LOCATION	MATERIAL		JOINING METHOD	
		TEST METHOD		TEST METHOD	
WASTE & VENT	ABOVE & BELOW SLAB	STANDARD WEIGHT COATED CAST IRON PIPE	CISPI 301, ASTM A888	PLAIN END NC-HUB WITH NEOPRENE GASKET & STAINLESS STEEL COUPLING	ASTM A74, ASTM C584
	ABOVE & BELOW SLAB	ABS-DWV PIPE, SCHEDULE 40 THICKNESS	ASTM D2681	SOLVENT WELD	ASTM D2235
WASTE & VENT	ABOVE & BELOW SLAB	ABS-DWV PIPE, SCHEDULE 40 THICKNESS	ASTM D2681	SOLVENT WELD	ASTM D2235
	ABOVE & BELOW SLAB	ABS-DWV PIPE, SCHEDULE 40 THICKNESS	ASTM D2681	SOLVENT WELD	ASTM D2235
STORM DRAIN	ABOVE & BELOW SLAB	ABS-DWV PIPE, SCHEDULE 40 THICKNESS	ASTM D2681	SOLVENT WELD	ASTM D2235
	ABOVE & BELOW SLAB	ABS-DWV PIPE, SCHEDULE 40 THICKNESS	ASTM D2681	SOLVENT WELD	ASTM D2235
GREASE WASTE	ABOVE & BELOW SLAB	POLYPROPYLENE PIPE, SCHEDULE 40 THICKNESS	ASTM D3035, UL 94	THERMALLY FUSED JOINTS USING ELECTRIC RESISTANCE COILS (FLAME RETARDANT)	ASTM D3035, UL 94
	ABOVE & BELOW SLAB	POLYPROPYLENE PIPE, SCHEDULE 40 THICKNESS	ASTM D3035, UL 94	THERMALLY FUSED JOINTS USING ELECTRIC RESISTANCE COILS (FLAME RETARDANT)	ASTM D3035, UL 94
ACID WASTE	ABOVE & BELOW SLAB	POLYPROPYLENE PIPE, SCHEDULE 40 THICKNESS	ASTM D3035, UL 94	THERMALLY FUSED JOINTS USING ELECTRIC RESISTANCE COILS (FLAME RETARDANT)	ASTM D3035, UL 94
	ABOVE & BELOW SLAB	POLYPROPYLENE PIPE, SCHEDULE 40 THICKNESS	ASTM D3035, UL 94	THERMALLY FUSED JOINTS USING ELECTRIC RESISTANCE COILS (FLAME RETARDANT)	ASTM D3035, UL 94
DOMESTIC CW & HW	ABOVE & BELOW SLAB	TYPE "M" HARD TEMPER SEAMLESS COPPER	ASTM B88	WROUGHT COPPER FITTINGS WITH 90S TIN-SILVER SOLDERED JOINTS	ANSI B16.22
	ABOVE & BELOW SLAB	TYPE "M" HARD TEMPER SEAMLESS COPPER	ASTM B88	WROUGHT COPPER FITTINGS WITH 90S TIN-SILVER SOLDERED JOINTS	ANSI B16.22
CONDENSATE DRAIN	ABOVE SLAB	TYPE "M" HARD TEMPER SEAMLESS COPPER	ASTM B88	WROUGHT COPPER FITTINGS WITH 90S TIN-SILVER SOLDERED JOINTS	ANSI B16.22
	ABOVE SLAB	TYPE "M" HARD TEMPER SEAMLESS COPPER	ASTM B88	WROUGHT COPPER FITTINGS WITH 90S TIN-SILVER SOLDERED JOINTS	ANSI B16.22
NATURAL GAS	ABOVE & BELOW SLAB	SCHEDULE 40 BLACK STEEL PIPE	ASTM A133	150 PSI BLACK MALLEABLE IRON SCREWED FITTINGS	ANSI B16.3, ANSI B16.8
	ABOVE & BELOW SLAB	SCHEDULE 40 BLACK STEEL PIPE	ASTM A133	150 PSI BLACK MALLEABLE IRON SCREWED FITTINGS	ANSI B16.3, ANSI B16.8
NOTES: 1. PRIME AND PAINT ALL GAS PIPING. 2. ALL CAST IRON PIPE SHALL BE AMERICAN MADE AND TESTED, NO IMPORTED PIPE IS ACCEPTABLE. TYLER PIPE, A&H FOUNDRY OR CHARLOTTE PIPE.					

PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION
DE-1	DRINKING FOUNTAIN (CBC ACCESS)	2"	1-1/2"	3/4"	---	ELKAY #LWS-EDFPM117K, TWO-LEVEL DRINKING FOUNTAIN WITH EZ200 BOTTLE FILLING STATION, WALL HUNG DRINKING FOUNTAIN, 18 GA. 300 SERIES STAINLESS STEEL BASIN, FRONT PUSH BUTTON CONTROL, SENSOR ACTIVATED BOTTLE FILLER STATION 150V/16.5 AMP ELECTRICAL POWER, WATTS #CA-411-Q, DOUBLE CARRIER, PROVIDE MOUNTING FRAME, PROVIDE UPPER AND LOWER ACCESS PANELS, INSTALL PER CBC ACCESSIBILITY REQUIREMENTS.
ED-1	FLOOR DRAIN	2"	1-1/2"	TP	---	WATTS #FSD-100A, 5" DIAMETER NICKEL BRONZE TOP WITH 2" PIPE, FLANGE AND SEEPAGE PAN, PROVIDE TRAP PRIMER CONNECTION.
ES-1	FLOOR SINK	2"	1-1/2"	TP	---	WATTS #FS-740, COATED CAST IRON, ACID RESISTANT PAINTED INTERIOR, 12" SQUARE TOP WITH 1/2" GRATE, 8" DEEP SUMP, DOUBLE DRAINAGE FLANGE BOTTOM CALLK OUTLET, & DOME STRAINER, PROVIDE TRAP PRIMER CONNECTION.
ES-2	FLOOR SINK	3"	2"	TP	---	WATTS #FS-740, COATED CAST IRON, ACID RESISTANT PAINTED INTERIOR, 12" SQUARE TOP WITH 1/2" GRATE, 8" DEEP SUMP, DOUBLE DRAINAGE FLANGE BOTTOM CALLK OUTLET, & DOME STRAINER, PROVIDE TRAP PRIMER CONNECTION.
HB-1	HOSE BIBB	---	---	3/4"	---	"WOODCROFT" #FS, WALL HYDRANT, VACUUM BREAKER, TEE-KEY HANDLE, ROUGH BRASS, MOUNT AT 12" AF GAFF.
HB-2	HOSE BIBB	---	---	3/4"	---	"WOODCROFT" #FS, WALL HYDRANT, VACUUM BREAKER, TEE-KEY HANDLE, ROUGH BRASS, MOUNT AT 12" AF GAFF.
HB-3	HOSE BIBB	---	---	3/4"	---	"WOODCROFT" #FS, WALL HYDRANT, VACUUM BREAKER, TEE-KEY HANDLE, ROUGH BRASS, MOUNT AT 12" AF GAFF.
JB-1	JANITORS SINK	3"	2"	3/4"	3/4"	FIAT #FSB300 24" X 24" TERRAZZO MOP BASIN WITH STAINLESS STEEL CAPS ON ALL CURBS, 14" STAINLESS STEEL STRAINER, FIAT MODEL #35A FAUCET WITH VACUUM BREAKER, PROVIDE 832A MOP, HOSE AND BRACKET, (2) STAINLESS STEEL, WALL GUARDS, AND STAINLESS STEEL THRESHOLD CAP.
L-1	LAVATORY (ELEMENTARY CBC ACCESS)	2"	1-1/2"	1/2"	1/2"	KOHLER #K-205, KINGSTON BASIN, WHITE FINISH VITREOUS CHINA, WALL HUNG CHICAGO FAUCET #807-512-66P/SHAC-P, MANUAL METEERED FAUCET, MCQUIRE #155WC OFFSET OPEN GRID DRAIN, MCQUIRE #PWA4P #PWA000WC SANITARY COVERING, WATTS #WCA-411, BASIN CARRIER, LEAD-FREE 1/4" TURN ANGLE STOPS, SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT, ALL WATER SUPPLY TUBING, FIXTURES AND APPURTENANCES TO BE CA AB-1953 COMPLIANT.
L-2	LAVATORY (CBC ACCESS)	2"	1-1/2"	1/2"	1/2"	KOHLER #K-205, KINGSTON BASIN, WHITE FINISH VITREOUS CHINA, WALL HUNG CHICAGO FAUCET #807-512-66P/SHAC-P, MANUAL METEERED FAUCET, MCQUIRE #155WC OFFSET OPEN GRID DRAIN, MCQUIRE #PWA4P #PWA000WC SANITARY COVERING, WATTS #WCA-411, BASIN CARRIER, LEAD-FREE 1/4" TURN ANGLE STOPS, SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT, ALL WATER SUPPLY TUBING, FIXTURES AND APPURTENANCES TO BE CA AB-1953 COMPLIANT.
OD-1	OVERFLOW DRAIN	3"	---	---	---	J.R. SMITH #H107Y, 11" DIA. CAST IRON BODY WITH 2" INTERNAL STANDPIPE, PROVIDE ALUMINUM DOME, SECONDARY FLASHING CLAMP, UNDERDECK CLAMP.
OD-2	OVERFLOW DRAIN	4"	---	---	---	J.R. SMITH #H107Y, 11" DIA. CAST IRON BODY WITH 2" INTERNAL STANDPIPE, PROVIDE ALUMINUM DOME, SECONDARY FLASHING CLAMP, UNDERDECK CLAMP.
RD-1	ROOF DRAIN	3"	---	---	---	J.R. SMITH #H107Y, 11" DIA. CAST IRON BODY, PROVIDE ALUMINUM DOME, SECONDARY FLASHING CLAMP, UNDERDECK CLAMP.
RD-2	ROOF DRAIN	4"	---	---	---	J.R. SMITH #H107Y, 11" DIA. CAST IRON BODY, PROVIDE ALUMINUM DOME, SECONDARY FLASHING CLAMP, UNDERDECK CLAMP.
RB-1	ROOF RECEPTOR	2"	2"	---	---	WATTS DRAINAGE #RD-400 EPOXY COATED CAST IRON DECK RECEPTOR DRAIN WITH 2" HIGH RECEPTOR FLANGE, INTERNAL DOME STRAINER AND NC-HUB OUTLET.
S-1	SINK (CBC ACCESS)	2"	1-1/2"	1/2"	---	ELKAY #KCA225175AC, COUNTERTOP MOUNT SINK, 20"X17"X5-1/2", 304 STAINLESS STEEL, SINGLE BOWL, WITH ELKAY #LK2020813LC FAUCET, #LK35 DRAIN KIT AND #LK141A BUBBLER, LEAD-FREE 1/4" TURN ANGLE STOPS, INSTALL PER CBC ACCESSIBILITY REQUIREMENTS, ALL WATER SUPPLY TUBING, FIXTURES AND APPURTENANCES TO BE CA AB-1953 COMPLIANT.
S-2	SINK (CBC ACCESS)	2"	1-1/2"	1/2"	1/2"	ELKAY #LKAD171865P, COUNTERTOP MOUNT SINK, 10"X18"X6-1/2", 304 STAINLESS STEEL, CHICAGO FAUCET #K01-GAE26-6-317AB, SWING GOOSENECK SPOUT, WESTBLADE HANDLE FAUCET, 1" CENTERS, 1.0 GPM LEAD-FREE 1/4" TURN ANGLE STOPS, INSTALL PER CBC ACCESSIBILITY REQUIREMENTS, ALL WATER SUPPLY TUBING, FIXTURES AND APPURTENANCES TO BE CA AB-1953 COMPLIANT.
TP-1	TRAP PRIMER	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS, INC. #PR-500 PRIME-RITE, PROVIDE PFP MODEL D-1212PC WALL ACCESS PANEL, PAINT ACCESS DOOR, COLOR BY ARCHITECT.
UL-1	URNAL (ELEMENTARY CBC ACCESS)	2"	1-1/2"	3/4"	---	KOHLER MODEL #4501-ETSS, ADA COMPLIANT WALL MOUNTED VITREOUS CHINA BOWL, SLOAN MODEL ROYAL #198-0125 HIGH EFFICIENCY BATTERY POWERED SENSOR FLUSH VALVE @ 0.125 GPM, PROVIDE WATTS CA-321 WALL CARRIER SYSTEM, WATTS #CO-380-RD URINAL WALL ACCESS CLEANOUT, INSTALL PER CBC ACCESS REQUIREMENTS, SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
WC-1	WATER CLOSET (CBC ACCESS)	4"	2"	1-1/4"	---	KOHLER #K-4325, ELONGATED TOILET, VITREOUS CHINA, WALL MOUNT, CENTOCO #6057SCC-01, HEAVY DUTY TOILET SEAT, SOLID PLASTIC, OPEN FRONT LESS COVER, SELF-SUSTAINING CHECK HINGE, SLOAN C2 #111-1-26, BATTERY POWERED SENSOR FLUSH VALVE, 1.28 GPM, POLISHED CHROME FINISH, PROVIDE WATTS ADJUSTABLE WATER CLOSET CARRIER, INSTALL PER CBC ACCESS REQUIREMENTS.
WC-2	WATER CLOSET	4"	2"	1-1/4"	---	KOHLER #K-4325, ELONGATED TOILET, VITREOUS CHINA, WALL MOUNT, CENTOCO #6057SCC-01, HEAVY DUTY TOILET SEAT, SOLID PLASTIC, OPEN FRONT LESS COVER, SELF-SUSTAINING CHECK HINGE, SLOAN C2 #111-1-26, BATTERY POWERED SENSOR FLUSH VALVE, 1.28 GPM, POLISHED CHROME FINISH, PROVIDE WATTS ADJUSTABLE WATER CLOSET CARRIER.

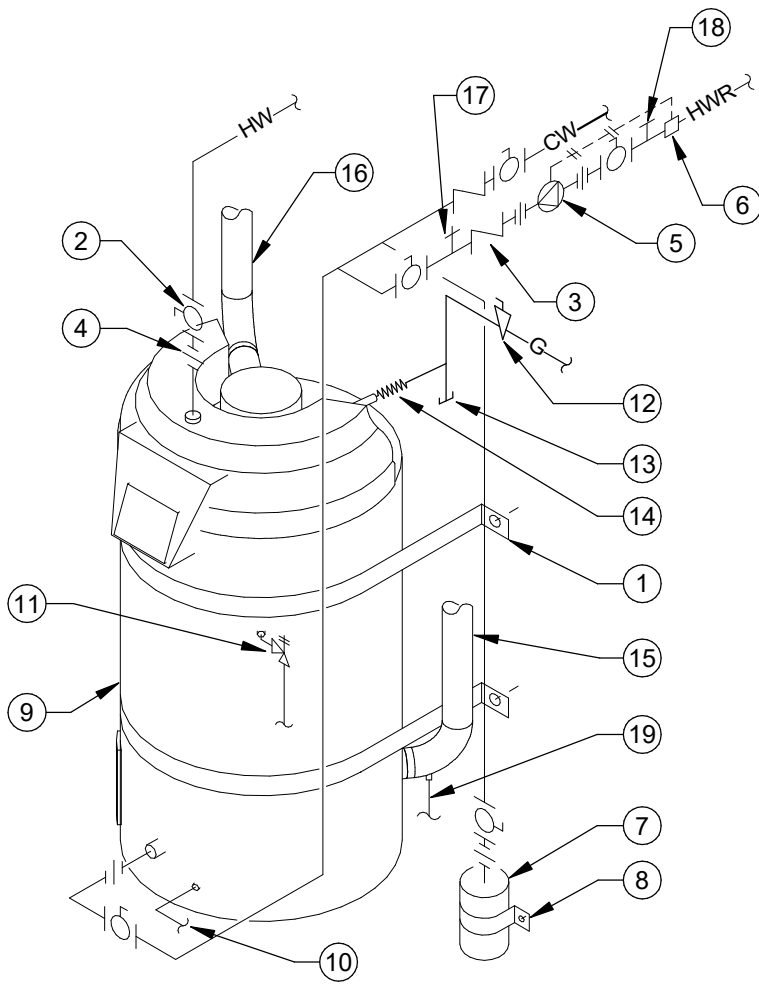
EQUIPMENT ANCHORAGE NOTES	
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE CSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26 AND 30.	
1. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER, MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 40 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS. 3. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL, THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL. FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE CSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.	

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.	
THE METHOD OF SHOWING BRACING AND ATTACHMENT TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD CPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.	
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E).	
MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E	OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E	OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM) #0043-13.
MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E	OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL, AND CONNECTION LEVEL, FOR THE PROJECT AND CONDITIONS.

PLUMBING LEGEND		
SYMBOL	ITEM	ABBR.
	FIXTURE DESIGNATION	
	UNIT ABBREVIATION	
	DETAIL DESIGNATION	
	DETAIL NUMBER	
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER RETURN	HWR
	VENT	V
	GAS	G
	MEDIUM PRESSURE GAS	MG
	LIQUID PROPANE GAS	LPG
	SEWER	S
	GREASE WASTE	GW
	ACID VENT	AV
	ACID WASTE	AW
	STORM DRAIN	SD
	ROOF DRAIN	RD
	OVERFLOW DRAIN	OD
	CONDENSATE DRAIN	C
	SECONDARY DRAIN	D
	TEMPERATURE & PRESSURE RELIEF	T&P
	FIRE SPRINKLER	FS
	PIPE CAP	
	RISE RISE / DROP	(RY/D)
	SHUT-OFF VALVE IN BOX	SOV
	FLOOR CLEANOUT	FCO
	CLEANOUT TO GRADE	COTG
	WALL CLEANOUT	WCO
	CLEANOUT	CO
	HOSE BIBB	
	OVERFLOW DRAIN OUTLET	
	BALL VALVE	
	GATE VALVE	
	CHECK VALVE	
	MIXING VALVE	
	SHUT-OFF COOK	
	CIRCULATION PUMP	
	BALANCING VALVE	
	TRAP PRIMER	
	PRESSURE REDUCING VALVE	PRV
	GAS PRESSURE REGULATOR	GRP
	TYPICAL	(TYP)
	VENT THRU ROOF	VTR
	UNDERGROUND	UG
	UNDER FLOOR	UF
	ABOVE CEILING	AB.C.
	TO ABOVE / BELOW	TA / TB
	FROM ABOVE / BELOW	FA / FB
	CONTINUATION	
	NEW	(N)
	EXISTING	PCO / POC
	POINT OF DISCONNECTION	



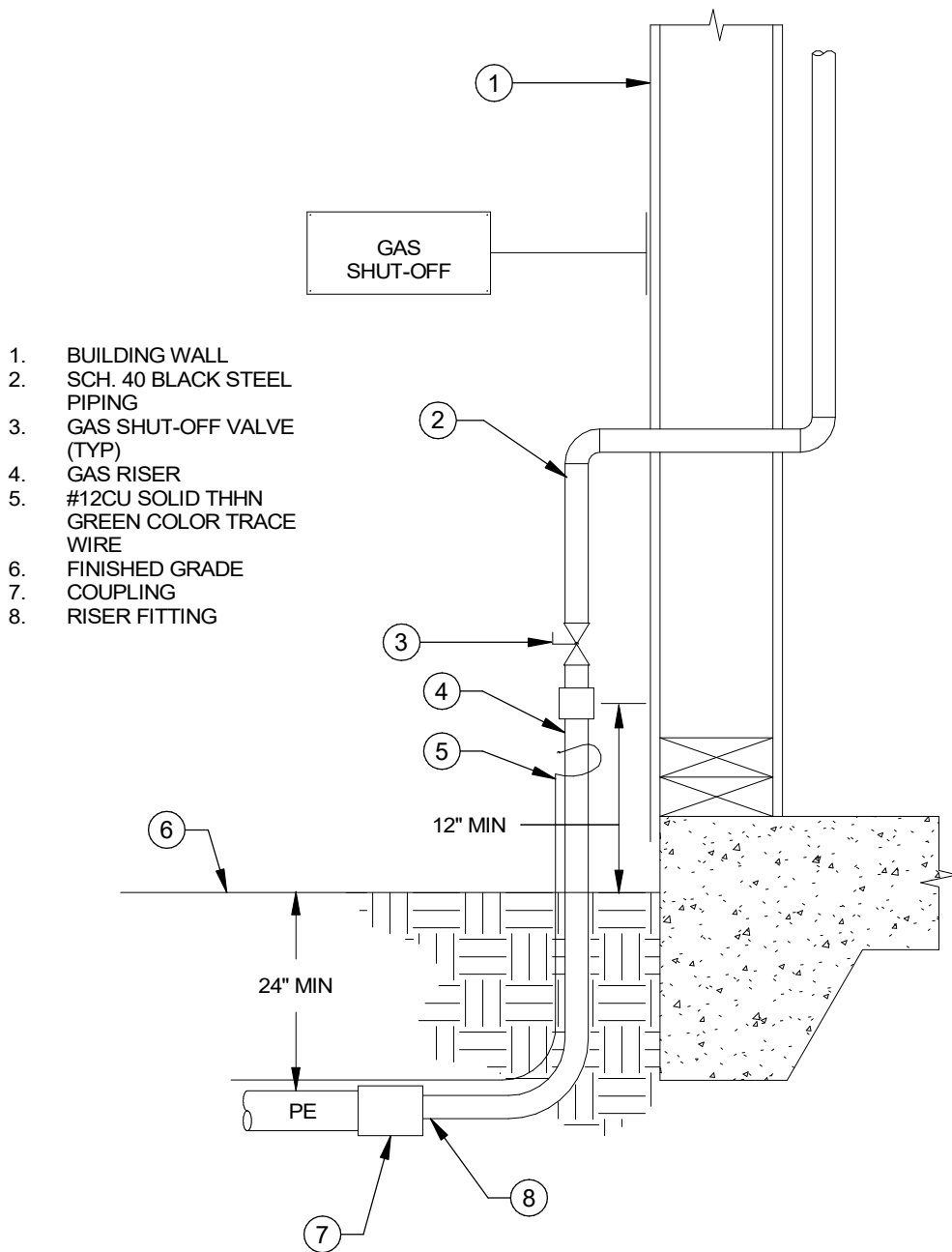
- 2" WIDE 24 GA STEEL STRAP AROUND WATER HEATER. SECURE TO WALL STUDS OR BLOCKING WITH 3/8" LAG SCREWS WITH MIN. 2" PENETRATION (2 PER STRAP) (2 STRAPS PER WATER HEATER).
- BALL VALVE, TYP.
- CHECK VALVE, TYP.
- UNION, TYP.
- CIRCULATION PUMP. SEE PLUMBING FIXTURE SCHEDULE.
- CIRCULATION PUMP BUILT IN TEMPERATURE SENSOR.
- EXPANSION TANK. SEE PLUMBING FIXTURE SCHEDULE.
- 2" WIDE 24 GA STEEL STRAP AROUND EXPANSION TANK. SECURE TO STUDS OR BLOCKING WITH 3/8" LAG BOLTS WITH MIN. 2" PENETRATION.
- WATER HEATER. SEE PLUMBING FIXTURE SCHEDULE.
- DRAIN COCK. ROUTE FULL SIZE DRAIN TO FLOOR SINK WITH 1" AIR GAP, MIN. (TYP).
- FULL SIZE TEMP. & PRESSURE RELIEF VALVE. ROUTE FULL SIZE DRAIN TO FLOOR SINK WITH 1" AIR GAP, MIN. (TYP).
- GAS COCK (TYP).
- 6" MINIMUM DIRT LEG (TYP).
- S.S. FLEX CONNECTION (TYP).
- 3" PVC FLEX THROUGH ROOF PER MANUFACTURER'S REQUIREMENTS (TYP).
- 3" PVC AIR INTAKE THROUGH ROOF PER MANUFACTURER'S REQUIREMENTS (TYP).
- HOSE BIBB FOR SYSTEM PRIMING.
- MANUAL AIR VENT.
- 3/4" PVC CONDENSATE TO FLOOR SINK WITH 1" AIR GAP.



- NOTE:
- PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS TO WATER HEATER.
  - BLOCKING SHALL BE MINIMUM 4x4 WITH SIMPSON H44 HANGERS AT EACH END.
  - INSTALL STRAPS AT TOP 1/3 AND BOTTOM 1/3 OF WATER HEATER.
  - SEE PLANS FOR PIPE SIZES.

#### GAS WATER HEATER DETAIL

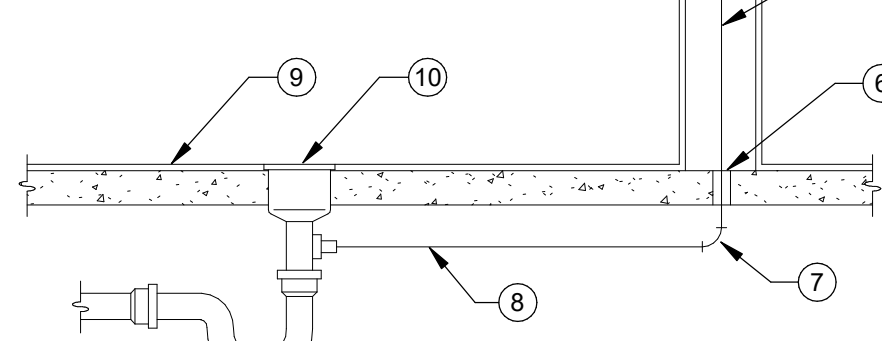
NTS 16



#### GAS RISER DETAIL

NTS 17

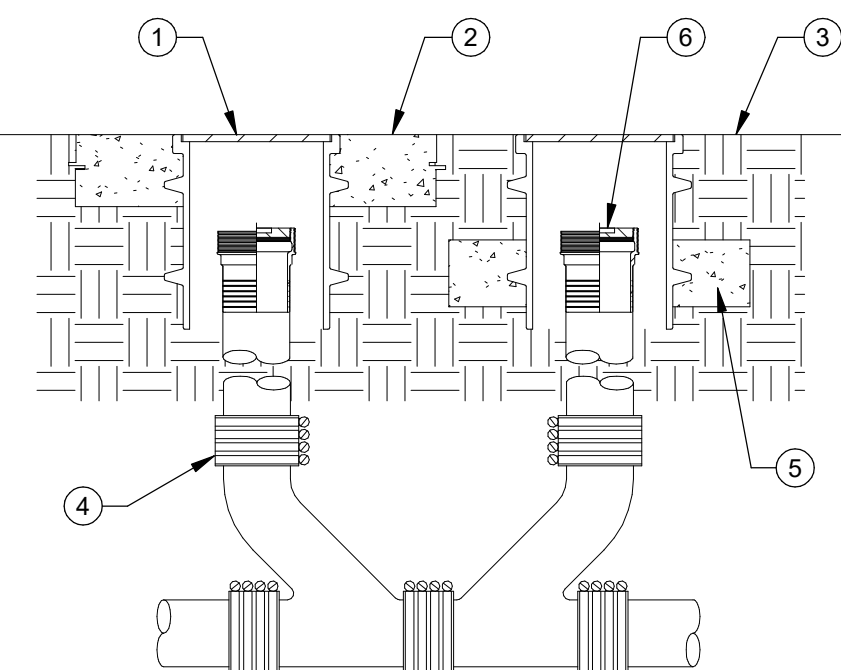
- FACE OF WALL.
- 3/4" CIV.
- 1/2" CIV.
- UNION.
- 1/2" CIV DOWN.
- SEAL WATERTIGHT.
- 1/2" CIV BELOW FLOOR.
- 1/2" CIV TRAP. CONNECT AS REQD.
- FRESH FLOOR.
- FLOOR DRAIN / SINK.
- ACCESS PANEL (STAINLESS STEEL).
- TRAP PRIMER.



#### TRAP PRIMER PIPING DETAIL

NTS 11

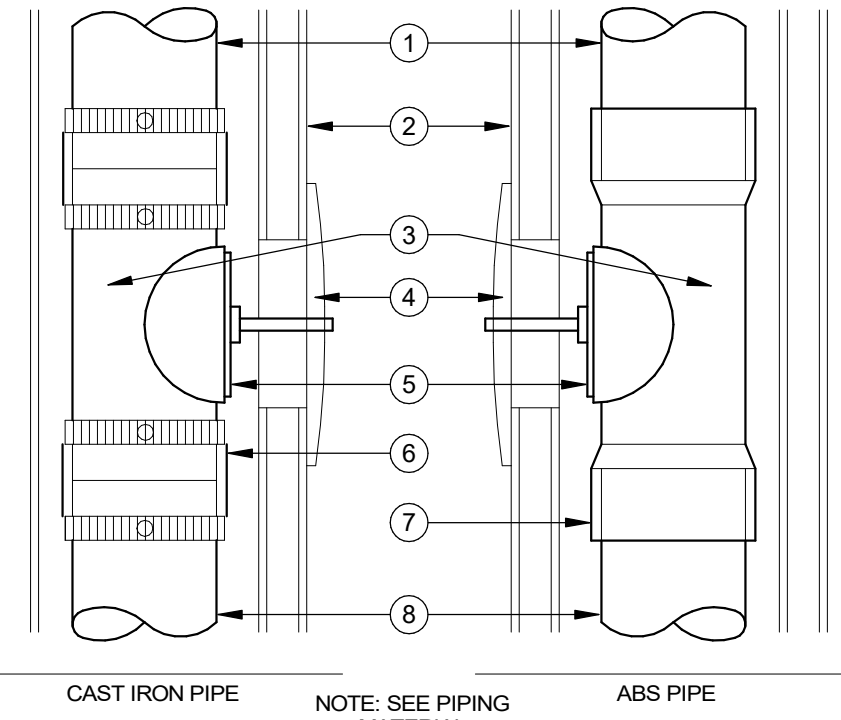
- CAST IRON CLEANOUT IN CLEANOUT FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER (TYP 2).
- CONCRETE SURFACE, MIN. 4" THICK.
- FINISHED GRADE.
- NO-HUB COUPLING.
- MIN. 1/2" x 1/2" x 1/2" THICK CONCRETE COLLAR (OMIT WHERE SURFACE CONCRETE OCCURS).
- CLEANOUT PLUG (TYP 2).



#### TWO-WAY CLEANOUT (COTG)

NTS 12

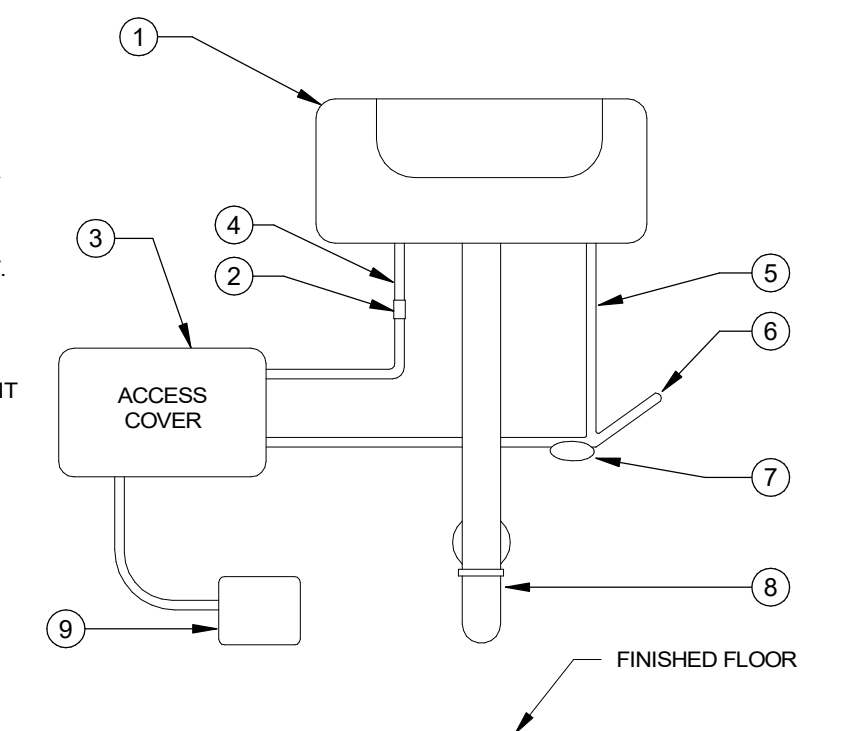
- VENT STACK.
- FACE OF WALL.
- SANITARY TEE.
- CHROME PLATED COVER & SCREW.
- THREADED PLUG.
- NO-HUB COUPLING.
- STAINLESS STEEL COVER.
- ABS FLANGED FITTING.
- DRAIN LINE.



#### WALL CLEANOUT (WCO)

NTS 13

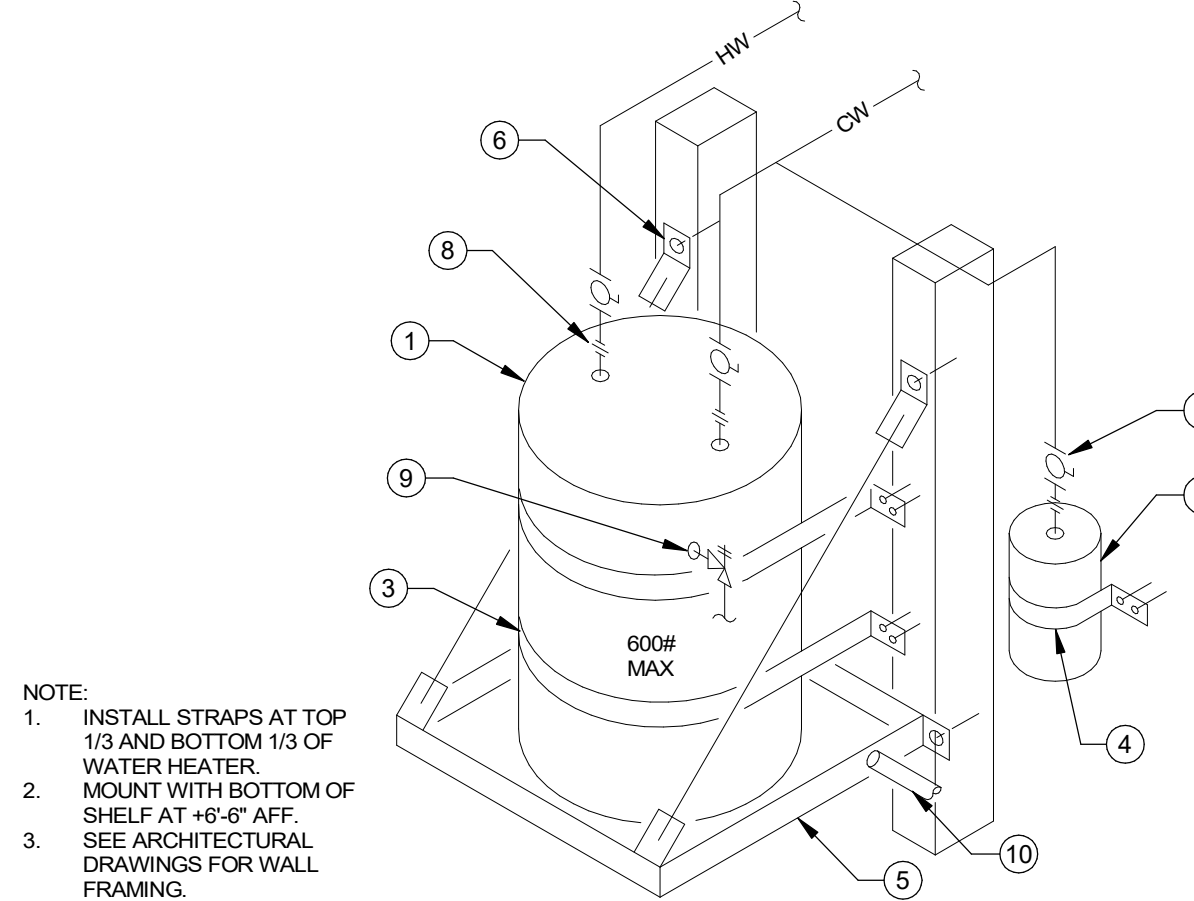
- SINK.
- FLOW CONTROL.
- INSTANT WATER HEATER MTD. ON WALL BELOW SINK.
- TO HOT WATER OUTLET.
- TO COLD WATER OUTLET.
- COLD WATER SUPPLY.
- DUAL OUTLET ANGLE VALVE.
- TRAP.
- ELEC. J-BOX AND CONDUIT (SEE ELECTRICAL).



#### INSTANTANEOUS WATER HEATER

NTS 14

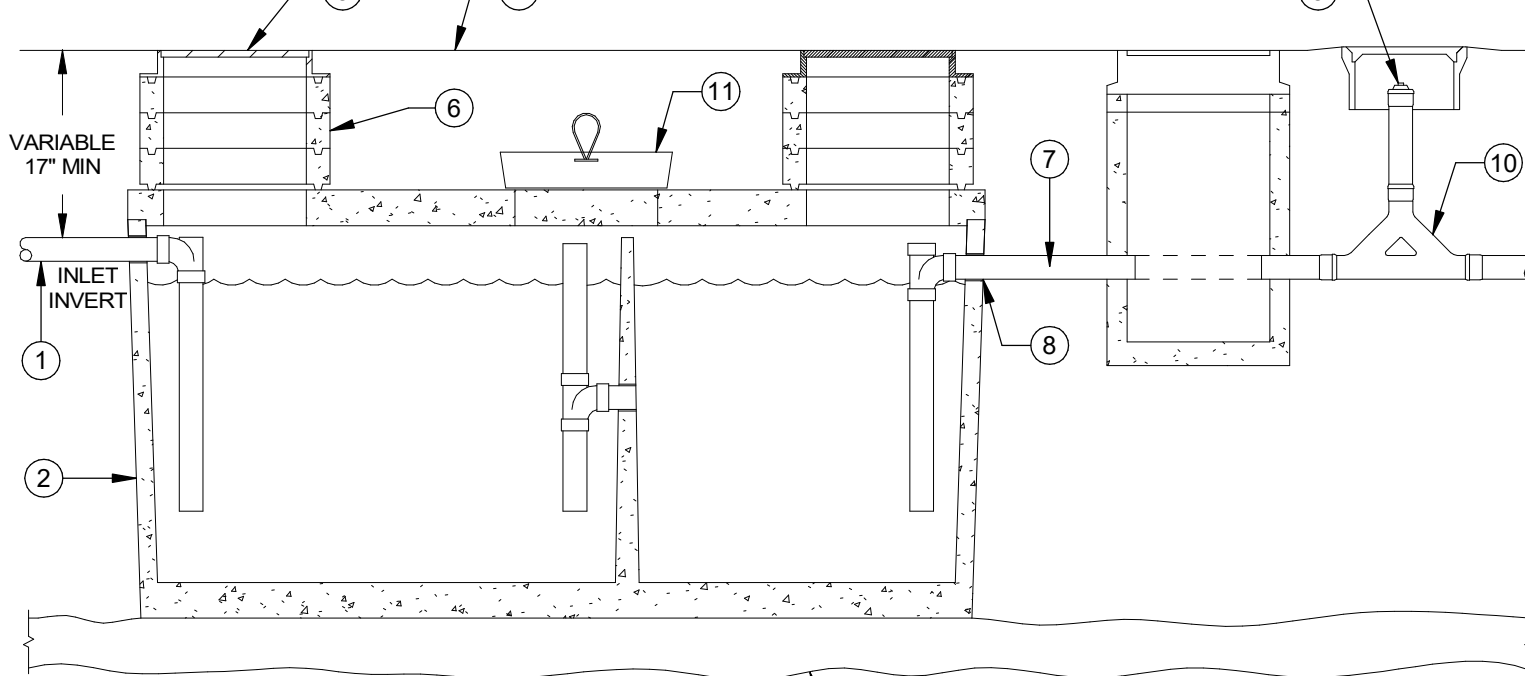
- WATER HEATER. SEE PLUMBING FIXTURE SCHEDULE.
- EXPANSION TANK. SEE PLUMBING FIXTURE SCHEDULE.
- 2" WIDE 24 GA STEEL STRAP AROUND WATER HEATER. SECURE TO WALL STUDS OR BACKING.
- TRAP WITH (2) 1/4" LAG SCREW WITH MIN. 3" EMBED. EACH END, TYP.
- 2" WIDE 24 GA STEEL STRAP AROUND EXPANSION TANK. SECURE TO STUDS OR BACKING.
- TRAP WITH (2) 1/4" LAG SCREW WITH MIN. 3" EMBED. EACH END, TYP.
- HOLDRITE MODEL 50-SVHP-W, WALL MOUNT PLATFORM WITH INTEGRAL DRAIN PAN. ROUTE DRAIN PER PLANS.
- PROVIDE FULL-HEIGHT DOUBLE STUDS AT WALL SUPPORT CONNECTIONS. CONNECT PLATFORM TO STUDS WITH (4) 3/8" X 3" SCREWS.
- BALL VALVE, TYP.
- FULL SIZE TEMP. & PRESSURE RELIEF. ROUTE FULL SIZE DRAIN TO APPROVED RECEPTOR WITH 1" AIRGAP.
- DRAIN PAN TO BE PIPED TO JANITOR'S SINK.



#### ELECTRIC WATER HEATER MOUNT ON PLATFORM

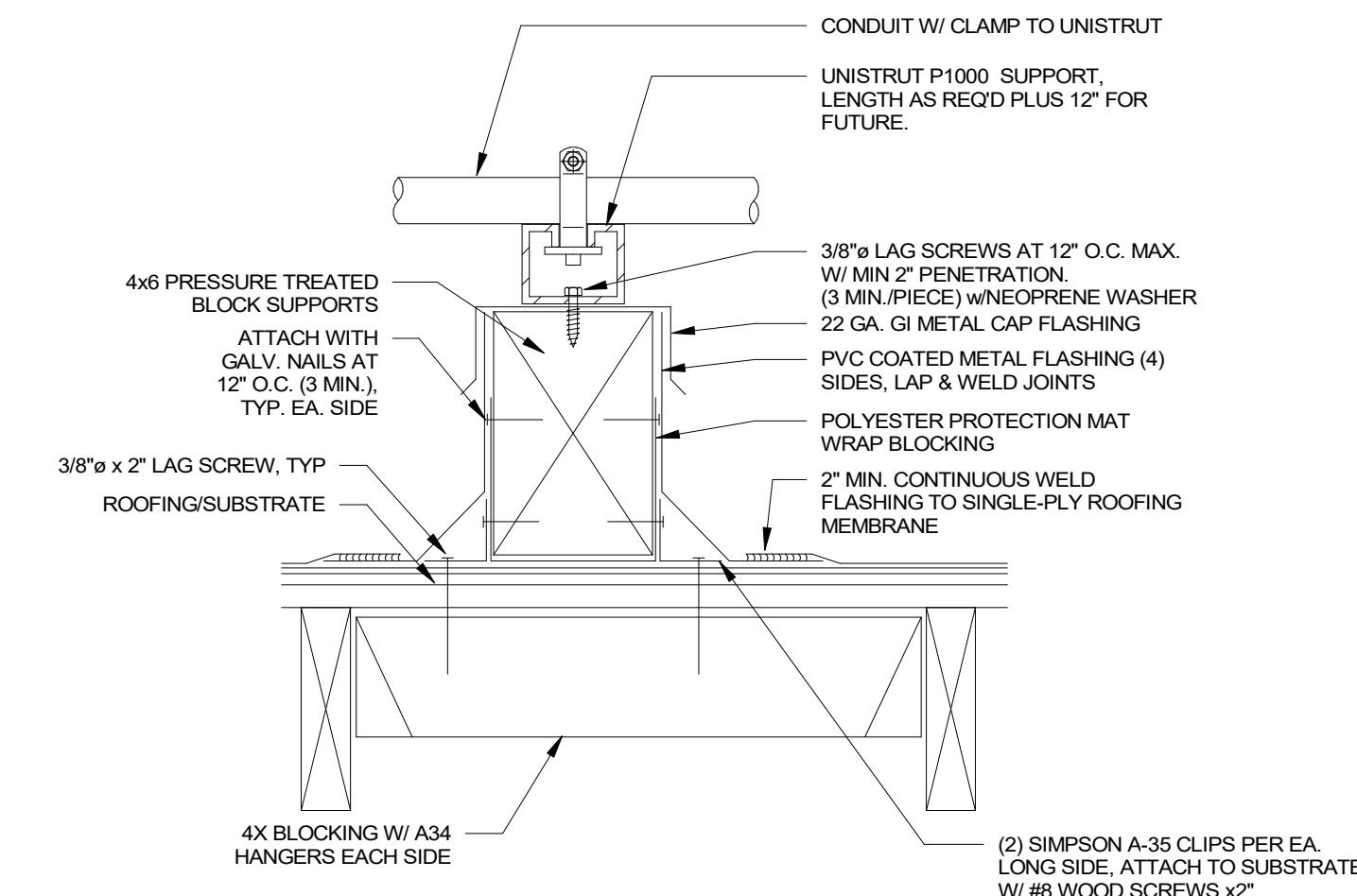
NTS 15

- 4" GREASE WASTE INLET FROM BUILDING. SEE PLANS FOR CONTINUATION.
- PROVIDE TRAFFIC-RATED REINFORCED, PRECAST CONCRETE INTERCEPTOR.
- PROVIDE TRAFFIC-RATED 24" x CASE ROCK. GAS-TIGHT MANHOLE COVERS.
- PAVEMENT OR GRADE.
- PROVIDE 4" CLEAN OUT (TYPICAL).
- PROVIDE CONCRETE ADJUSTMENT RINGS TO SUITE DEPTH OF THE INTERCEPTOR.
- 2" VENT. SEE PLANS FOR CONTINUATION.
- SEAL GREASE INTERCEPTOR PENETRATIONS WATERTIGHT.
- INSTALL INTERCEPTOR ON A BED OF UNDISTURBED EARTH OR 4"-6" OF COMPACTED SAND BACKFILL.
- TWO WAY COMBINATION.
- PLUG.



#### GREASE INTERCEPTOR DETAIL

NTS 6

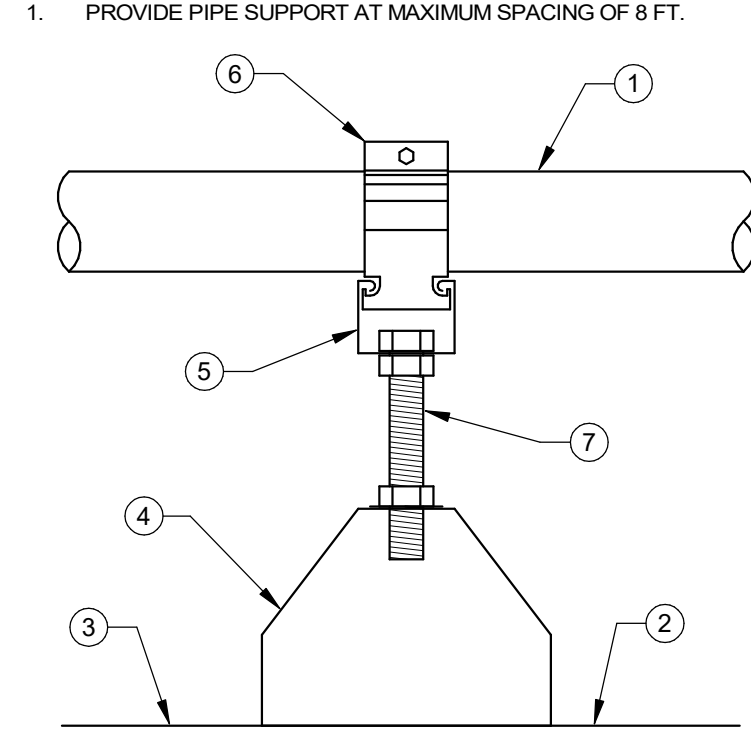


- NOTES:
- ANCHORED SUPPORTS AT 40'-0" O.C. MAX. AND WITHIN 2'-0" FROM ENDS, FOR INTERMEDIATE PIPE SUPPORT SEE DETAIL xPp.xx.

#### PIPE SUPPORT ON ROOF

NTS 7

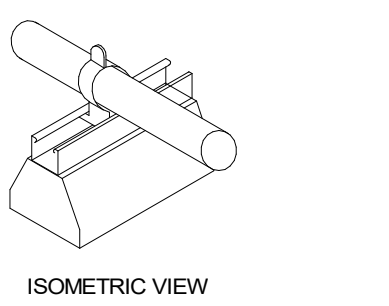
- PIPING ON ROOF.
- PVC SINGLE PLY PROTECTION MATERIAL.
- ROOFING MATERIAL.
- 18" LINE "DURA-BLOK" ROOFTOP PIPE SUPPORT OR EQUAL. WOOD BLOCKING NOT ACCEPTABLE.
- 18" LINE "14 GA. GALVANIZED SLOTTED "C" CHANNEL.
- 18" LINE "B2000 SERIES PIPE CLASP WITH THRU-BOLT.
- PROVIDE (2) 18" LINE "1/2" ADJUSTABLE THREADED ROD RISERS WITH NUTS.



#### CONDENSATE PIPE SUPPORT ON ROOF

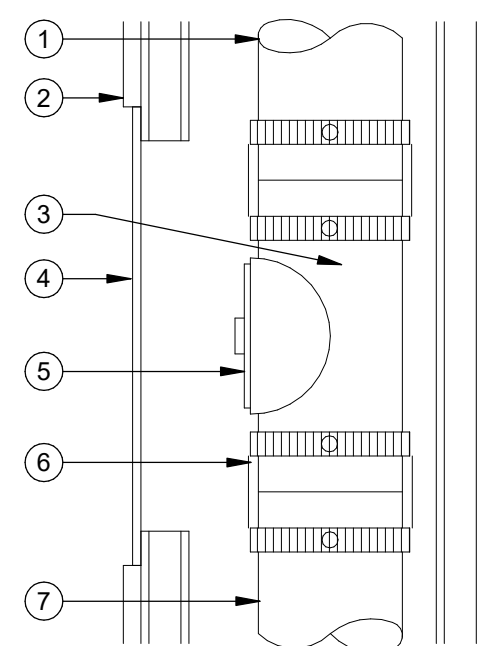
NTS 8

- PIPING ON ROOF.
- PVC SINGLE PLY PROTECTION MATERIAL.
- ROOFING MATERIAL.
- ROOFTOP PIPE SUPPORT OR EQUAL. WOOD BLOCKING NOT ACCEPTABLE.
- 18" LINE "14 GA. GALVANIZED SLOTTED "C" CHANNEL.
- 18" LINE "B2000 SERIES PIPE CLASP WITH THRU-BOLT.



#### GAS PIPE SUPPORT ON ROOF

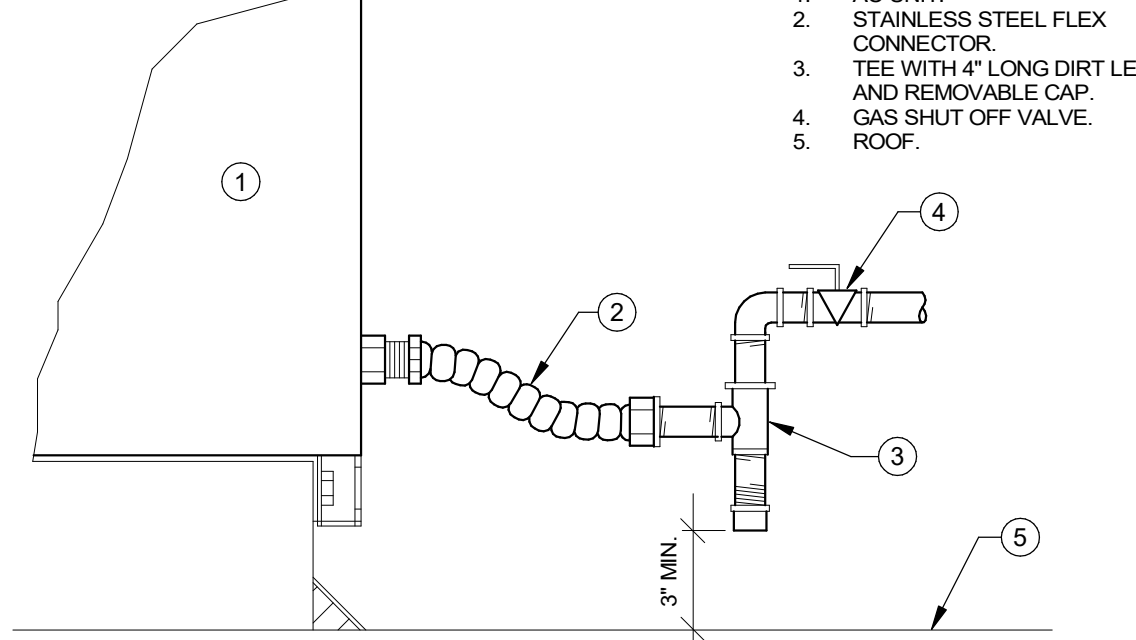
NTS 9



- NOTE:
- STORM DRAIN PIPING UP TO ROOF DRAIN.
  - FACE OF EXTERIOR WALL.
  - SANITARY TEE.
  - KARP MODEL DSC-214M FLUSH 12"x12" ACCESS DOOR. PAINT, COLOR BY ARCHITECTS. MOUNT BOTTOM OF PANEL AT +12" AFG.
  - THREADED PLUG.
  - NO-HUB COUPLING STAINLESS STEEL COVER.
  - STORM DRAIN LINE TO OUTSIDE.

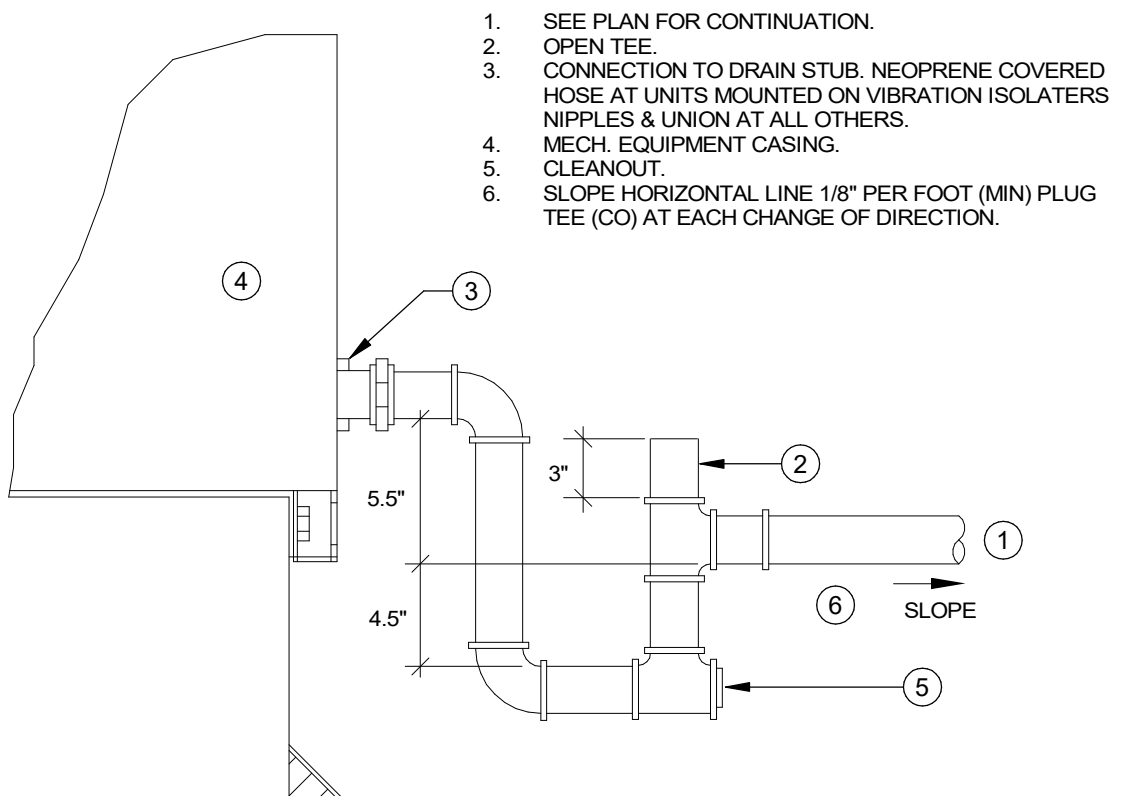
#### STORM DRAIN WALL CLEANOUT

NTS 10



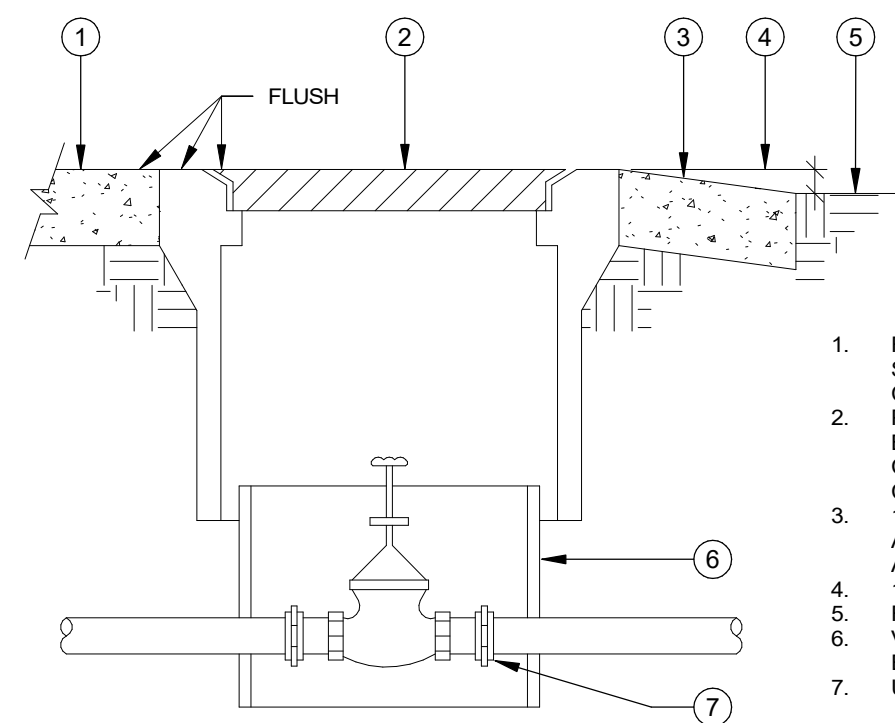
#### AC UNIT GAS CONNECTION

NTS 1



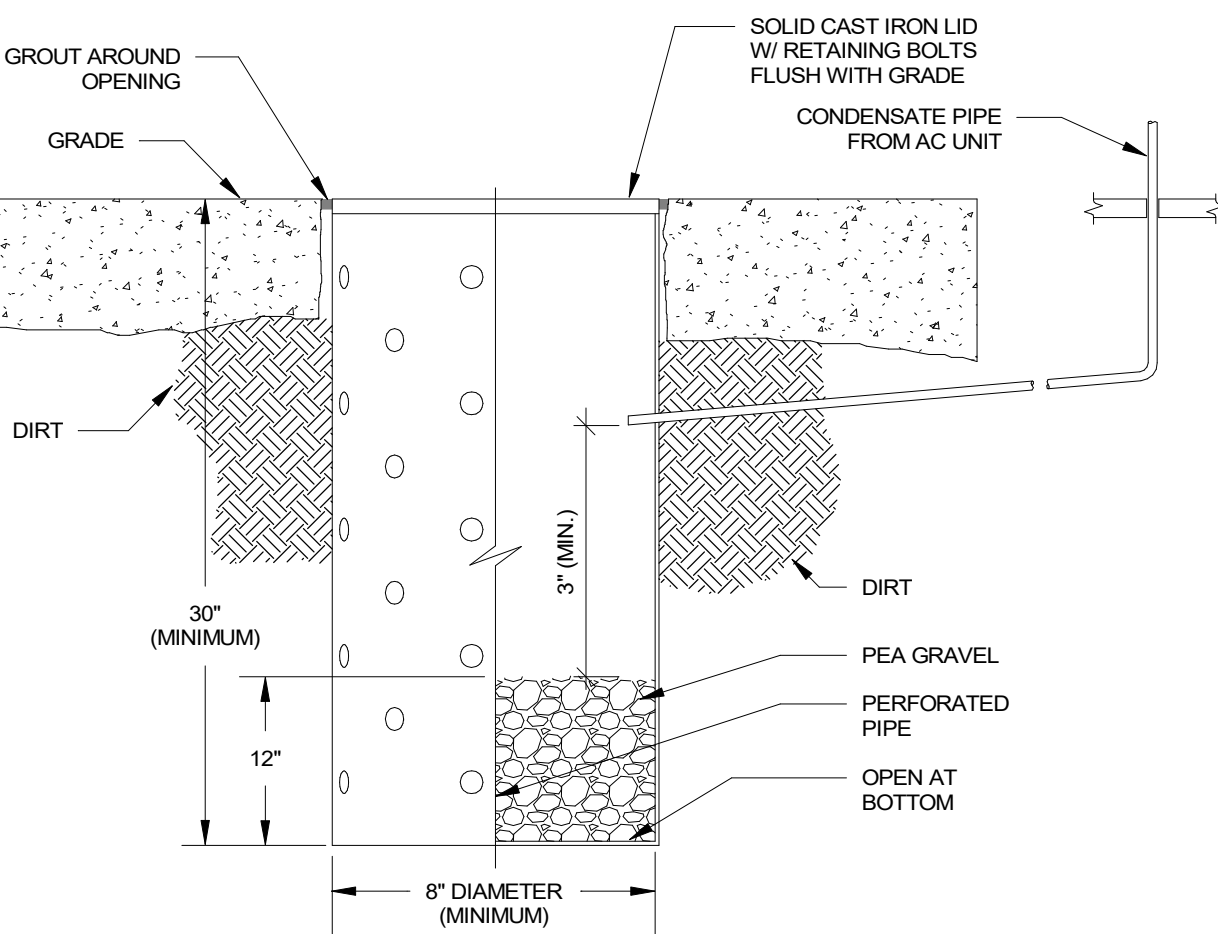
#### CONDENSATE DRAIN CONNECTION

NTS 2



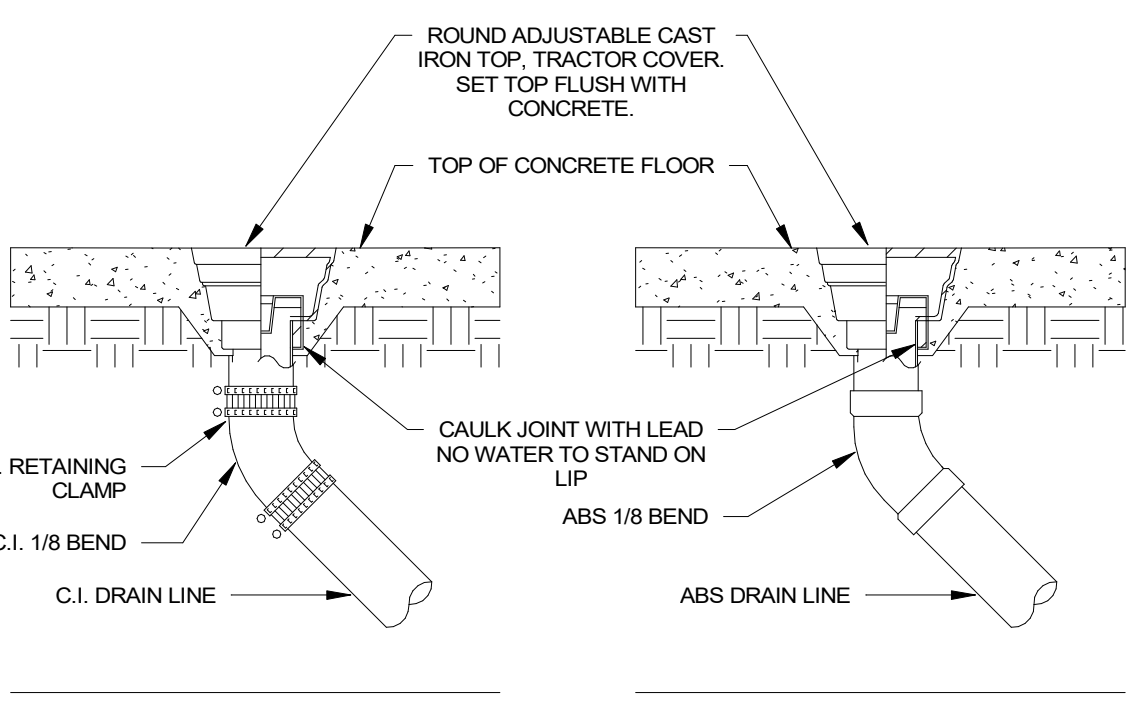
#### CW SHUT-OFF VALVE

NTS 3



#### DRYWELL DETAIL

NTS 4



#### FLOOR CLEANOUT (FCO)

NTS 5

DSA STAMP

# BCA

architecture  
planning  
interiors

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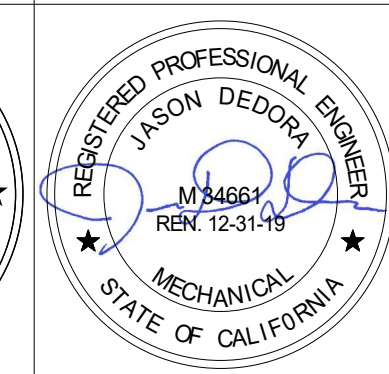
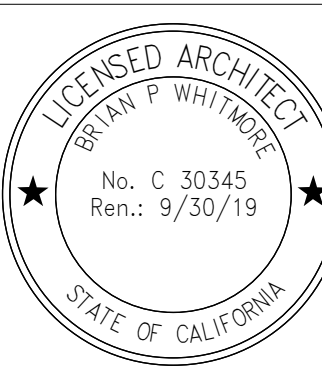
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KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

PLUMBING DETAILS

Date  
05/20/2019

Project Number  
19003

Scale  
1/4" = 1'-0"

Drawing Number  
P0.2

Drawn  
Author

Checked  
Checker



WATER AND WASTE MAINS CALCULATIONS									
JOB NAME		Westmore ES				DATE 03/12/19			
USE	FIXTURE TYPE	NO	WASTE		WATER			TOTAL	
			FU	TOTAL	BOTH	CW	HW		
					FU	FU	FU		
U	BAR SINK	1	1	1	2	1.5	1.5	2	
U	DRINKING FOUNTAIN	5	0.5	2.5	0.5	0.5		2.5	
	HOSE BIBB (FIRST)	1	0	0	2.5	2.5		2.5	
	HOSE BIBB (ADDITIONAL)	12	0	0	1	1.0		12	
	LAVATORY (SINGLE)	23	1	23	1	0.8	0.8	23	
U	SERVICE SINK	5	3	15	3	2.3	2.3	15	
	FLOOR DRAIN	18	2	36	0				
	FLOOR SINK RECEPTOR	4	3	12	0			0	
	SINK, 1-1/2" TRAP	1	3	3	2	1.5	1.5	2	
	SINK, 2" TRAP	34	4	136	2	1.5	1.5	68	
	URINAL	7	2	14	4	4.0		28	
U	WATER CLOSET, FLUSH VALVE	30	4	120	5	5.0		150	
	FUTURE 3-COMPARTMENT SINK	1	4	4	2	1.5	1.5	2	
	TOTAL FIXTURE UNITS			366.5			84.0	307.0	
EQUIVALENT COLD WATER FLOW RATE (GPM):									111
ADDITIONAL WATER DEMAND LOAD (GPM)									
AVAILABLE STATIC PRESSURE IN WATER MAIN (PSI)									55
MINIMUM REQUIRED FIXTURE PRESSURE (PSI):									25
ELEVATION RISE (FT):									5
METER LOSS (PSI):									4.0
BACKFLOW PREVENTER LOSS (PSI):									11.0
ADDITIONAL LOSSES (PSI):									0
EQUIVALENT PIPE LENGTH FROM METER TO MOST REMOTE FIXTURE (FT):									900
FRICTION LOSS PRESSURE AVAILABLE (PSI):									12.83
MAXIMUM ALLOWABLE FRICTION LOSS (PSI)100 FT):									1.43
WATER FLOW VELOCITY (FPS):									2.98
CALCULATED FRICTION HEAD LOSS (PSI)100 FT):									0.45
MINIMUM REQUIRED 'WATER' PIPE SIZE (INCHES):									4
MINIMUM REQUIRED 'WASTE' PIPE SIZE (INCHES):									6
(CALCULATIONS PER THE UPC/IPC)									

NATURAL GAS SIZING TABLE		
BASED ON 2014 CPC EQUATION 1216.3(2) HIGH PRESSURE (SCHEDULE 40 METALIC)		
INLET PRESS (PSIA) =		2
PRESSURE DROP (PSIA) =		81.5
PIPE LENGTH (FT) =		4,134
MAXIMUM LOAD (MBH) =		19,886
PIPE SIZE	PIPE I.D.	MAX MBH
1/2	0.622	147
3/4	0.824	309
1	1.049	582
1-1/4	1.38	1,197
1-1/2	1.61	1,793
2	2.067	3,456
2-1/2	2.469	5,510
3	3.068	9,745
4	4.026	19,886

GAS EQUIPMENT CAPACITIES	
EQUIPMENT	GAS LOAD (MBH)
GPR B-1	403
GPR C-1	360
GPR D-1	288
GPR E-1	328
GPR F-1	670
GPR G-1	686
GPR M-1	1,399
TOTAL	4,134

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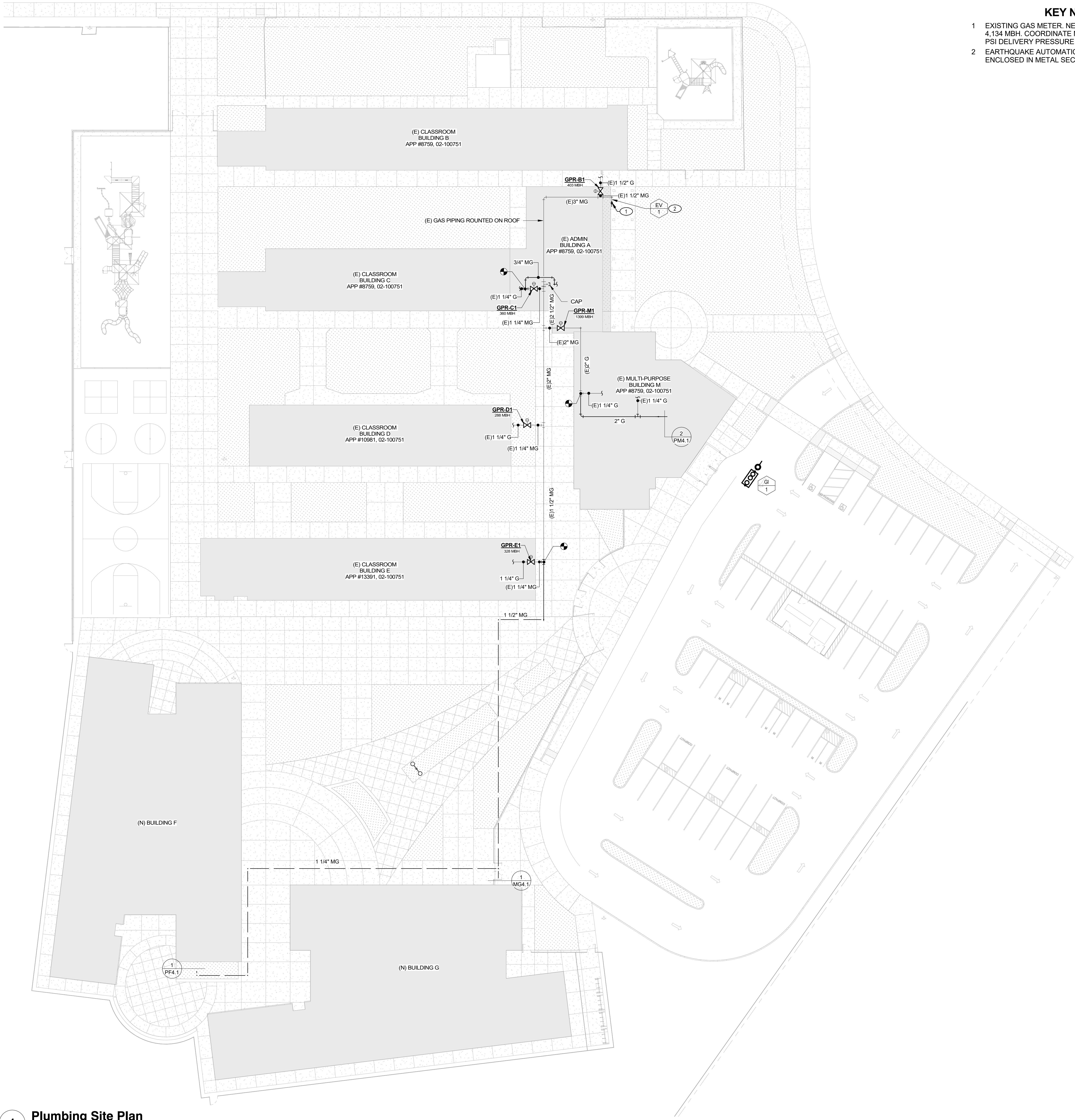
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PLUMBING  
CALCULATIONS



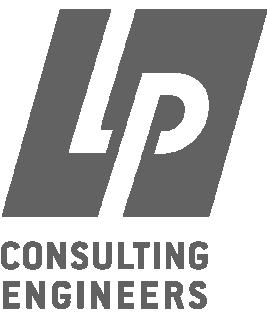


- KEY NOTES**
- EXISTING GAS METER. NEW TOTAL CAMPUS GAS LOAD: 4,134 MBH. COORDINATE NEW LOAD AND ELEVATED 2 PSI DELIVERY PRESSURE WITH PG&E.
  - EARTHQUAKE AUTOMATIC GAS SHUT-OFF (EV-1) TO BE ENCLOSED IN METAL SECURITY CAGE.

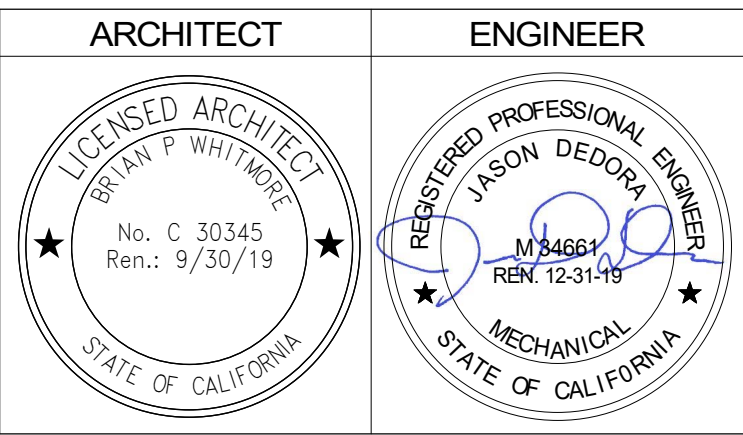
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**PLUMBING SITE PLAN**

Date 05/20/2019	Project Number 19003
Scale 1" = 20'-0"	Drawing Number <b>P1.0</b>
Drawn Author	Checked Checker

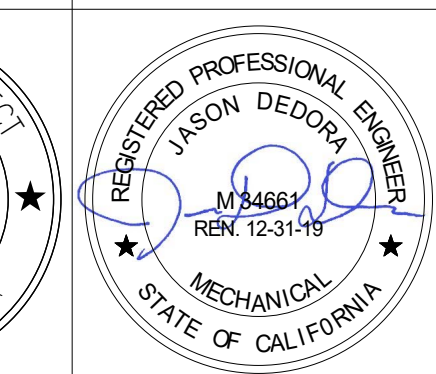
**1 Plumbing Site Plan**  
SCALE: 1" = 20'-0"





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## Date \_\_\_\_\_

05/20/2019

Scale

$$\frac{1}{8}'' = 1'-0''$$

Drawn

Author \_\_\_\_\_

Project Number

19003

Drawing Number

DF2 1

PF2.1

100

## PF2.1



SCALE: 1/8" = 1'-0"







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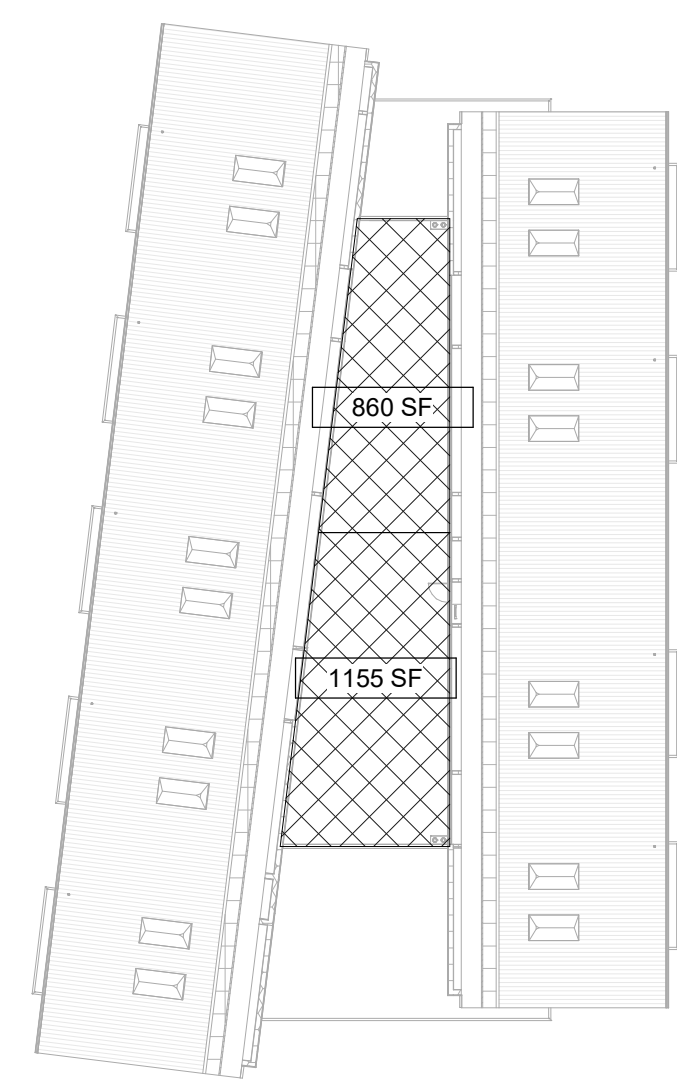
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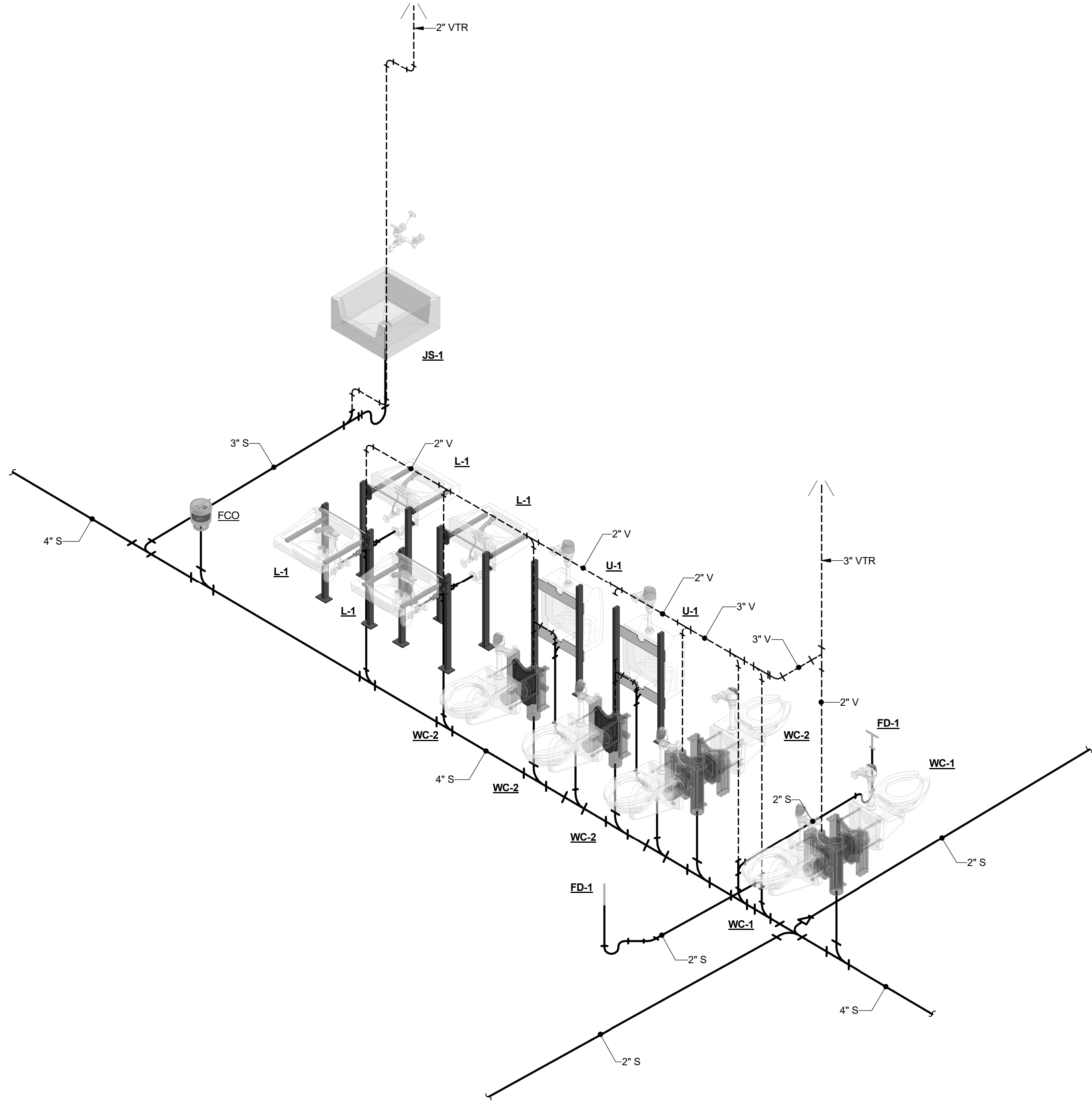
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05/20/2019	19003	
Scale	Drawing Number	
As indicated	PF4.1	
Drawn		Checked
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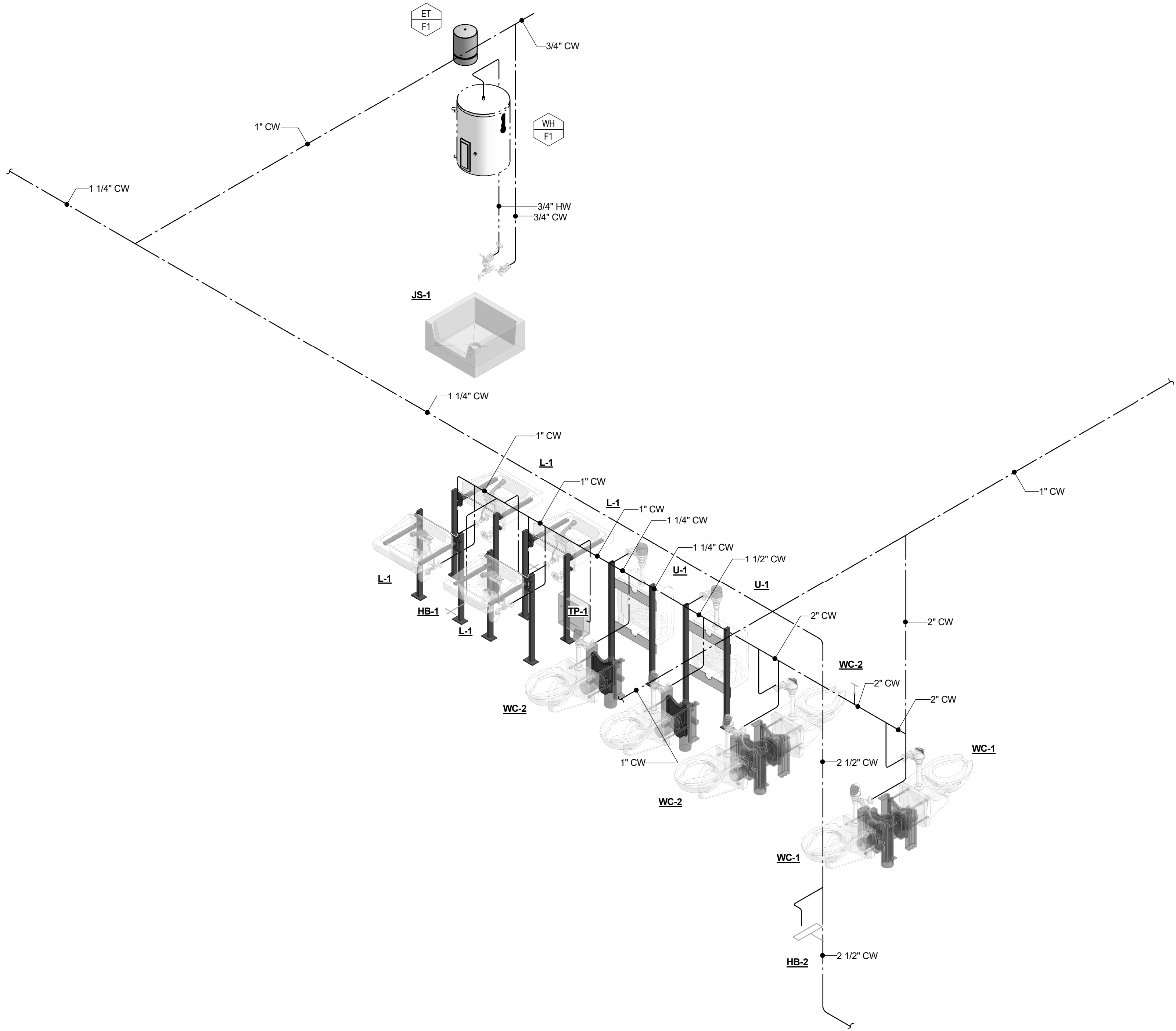
**2 BLDG F - ROOF DRAINAGE AREA**  
SCALE: 1" = 30'-0"

**1 BLDG F - PLUMBING ROOF PLAN**  
SCALE: 1/8" = 1'-0"

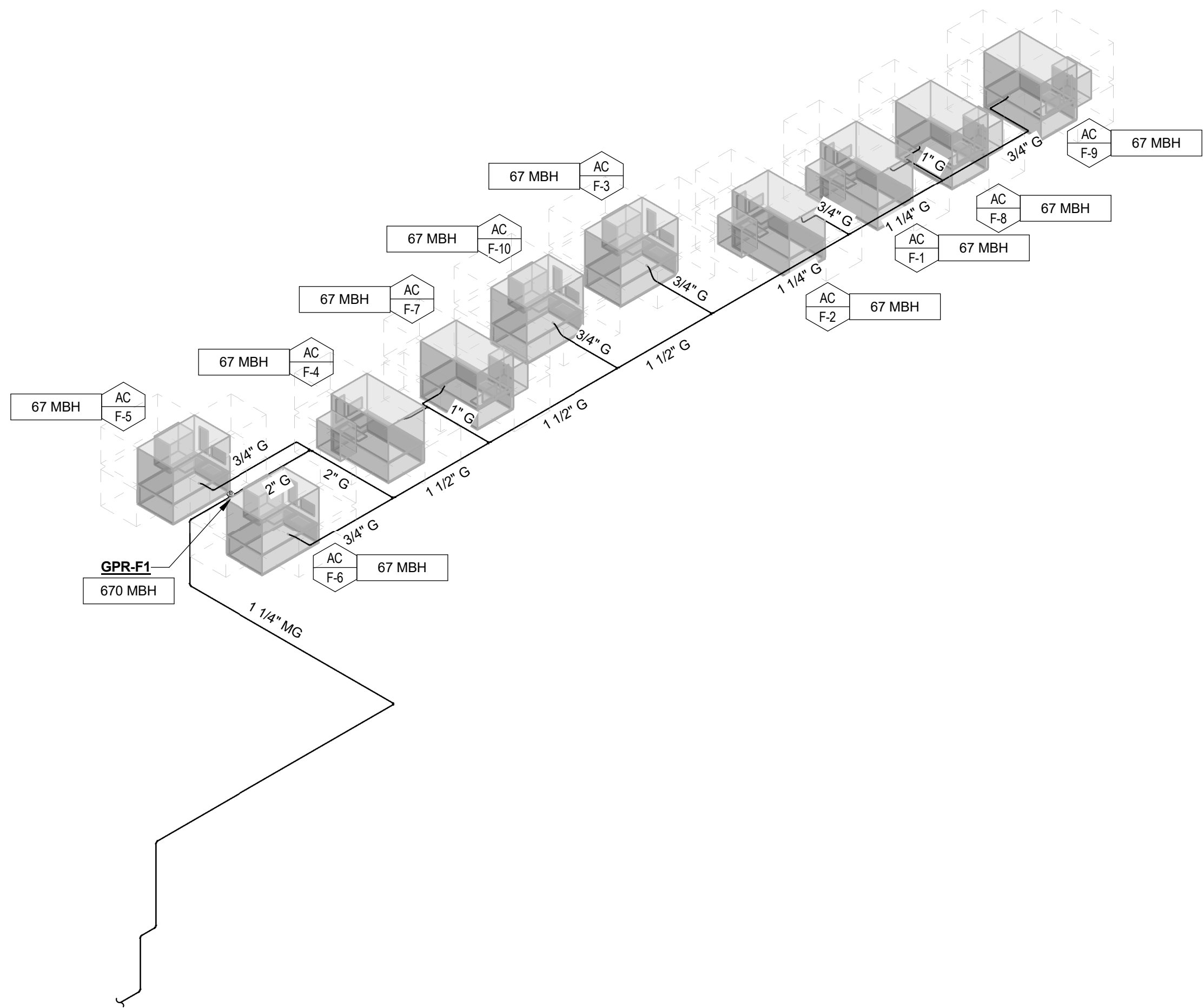




2 BLDG F - WASTE & VENT ISOMETRIC  
SCALE:



1 Bldg F Water Iso  
SCALE:



3 BLDG F - GAS ISOMETRIC  
SCALE:

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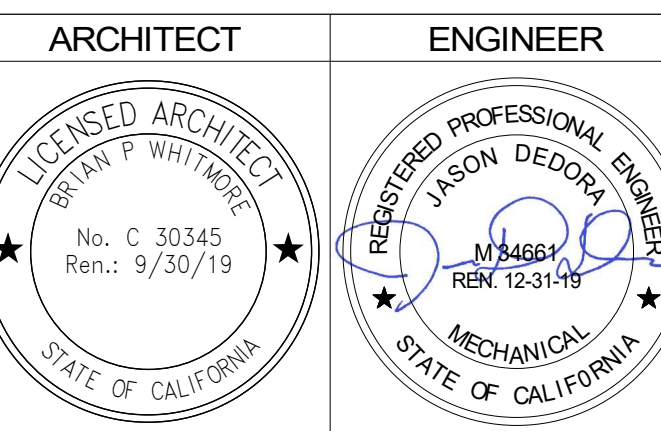
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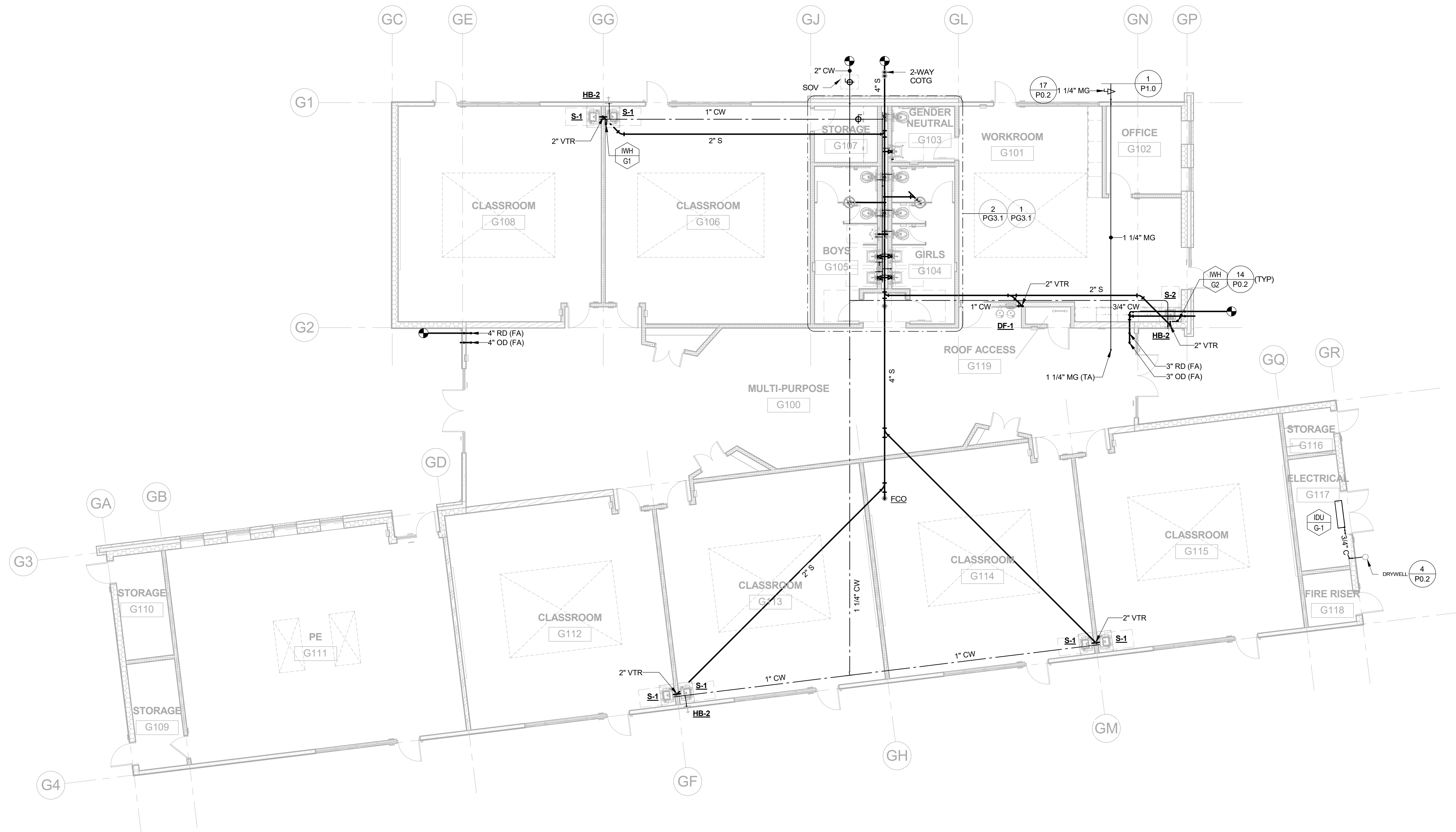
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BUILDING F PLUMBING  
ISOMETRICS

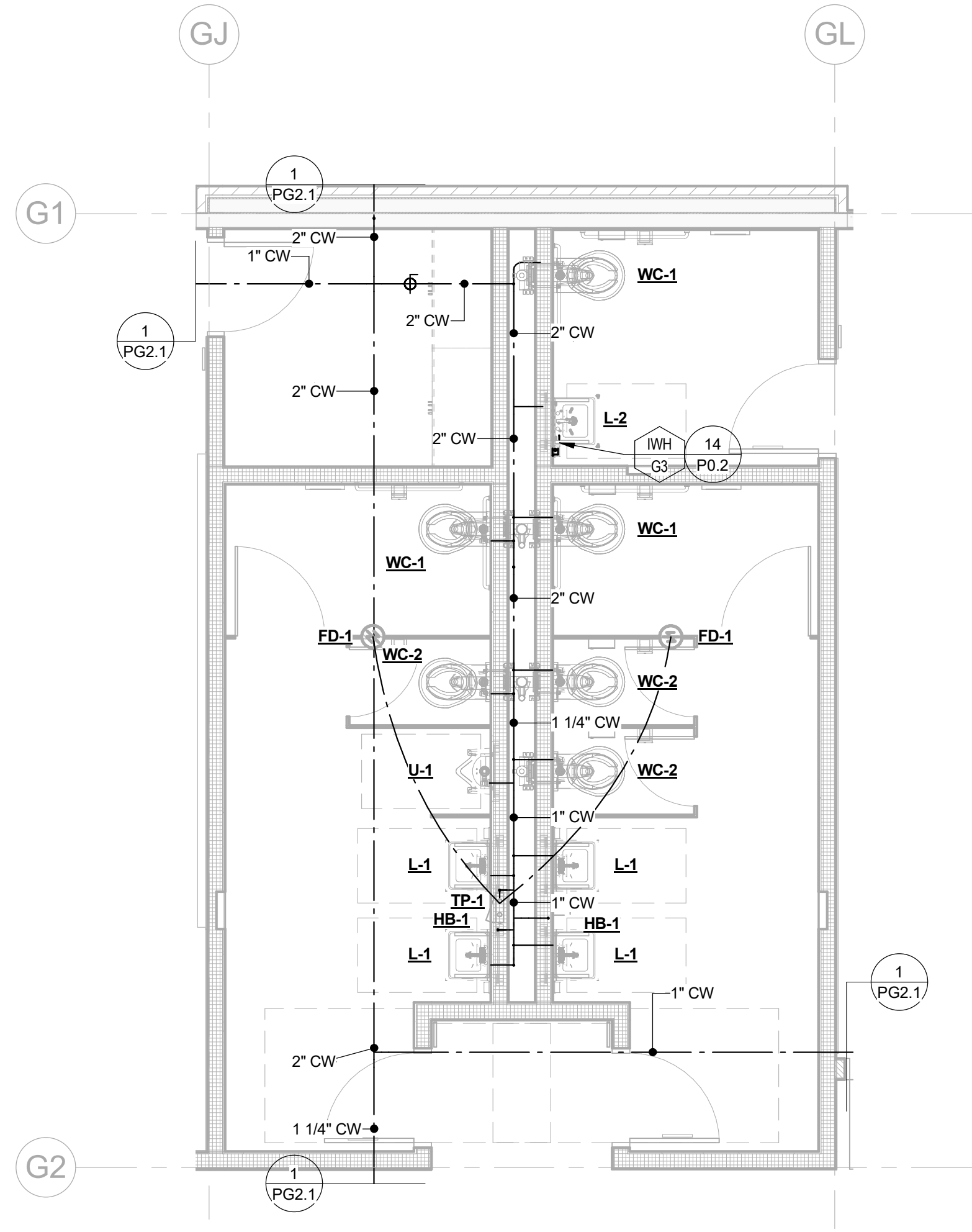
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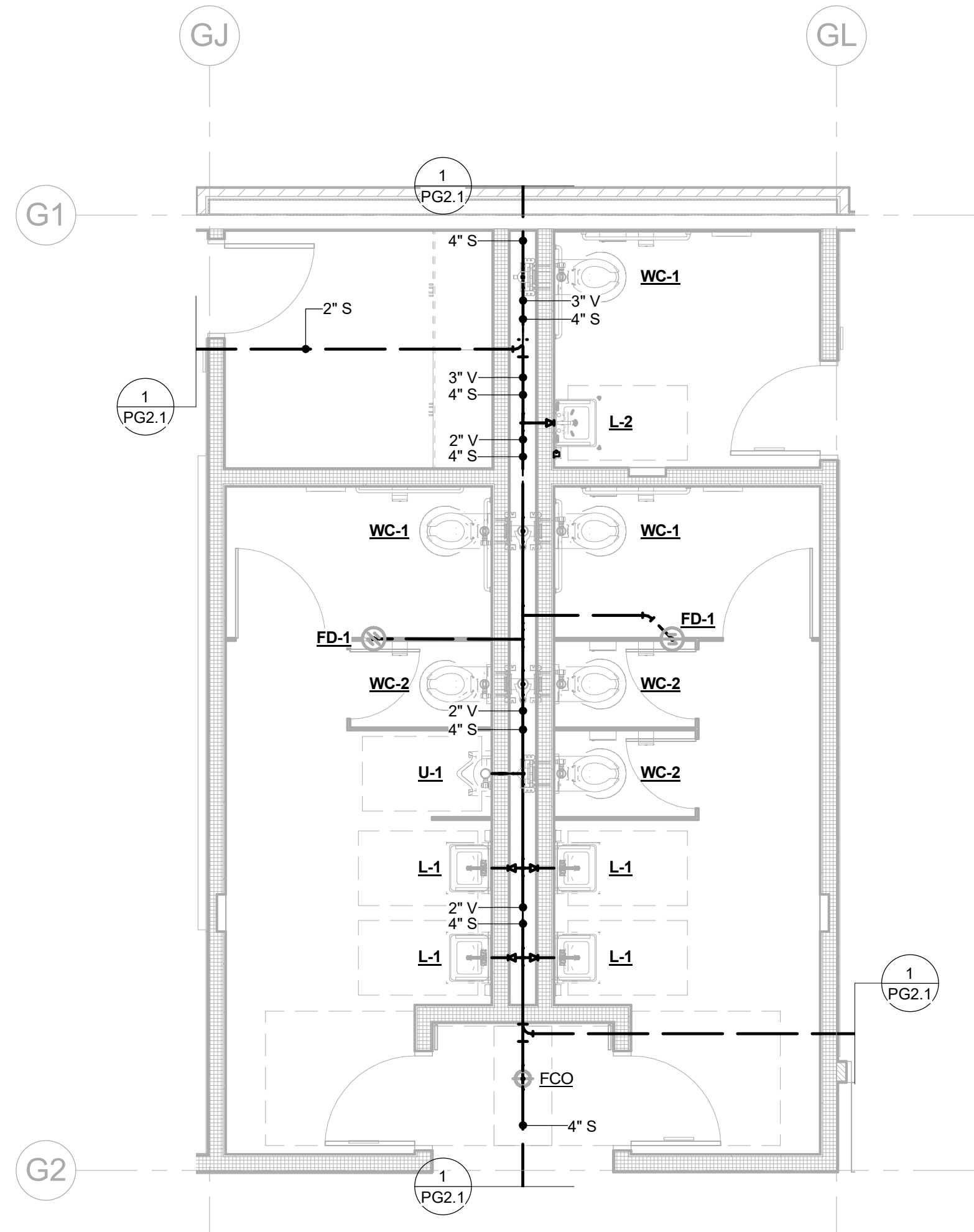


**1 BLDG G - PLUMBING FLOOR PLAN**  
SCALE: 1/8" = 1'-0"





1 BLDG G - ENLARGED WATER PLAN  
SCALE: 1/4" = 1'-0"



2 BLDG G - ENLARGED WASTE & VENT PLAN  
SCALE: 1/4" = 1'-0"

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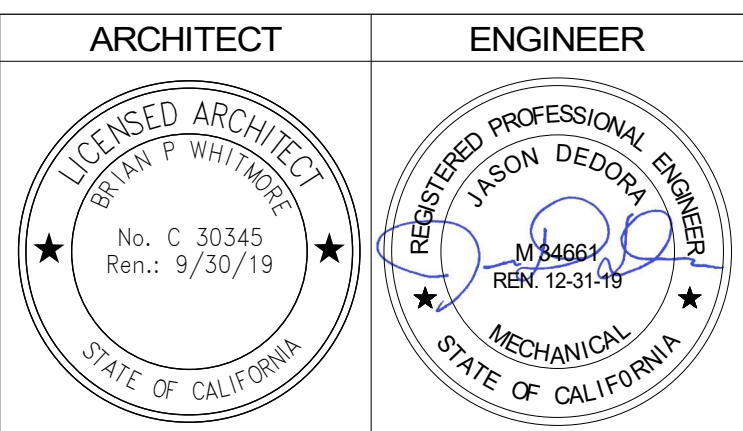


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BUILDING G ENLARGED  
PLUMBING PLANS

Date

05/20/2019

Scale

1/4" = 1'-0"

Drawn

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Project Number

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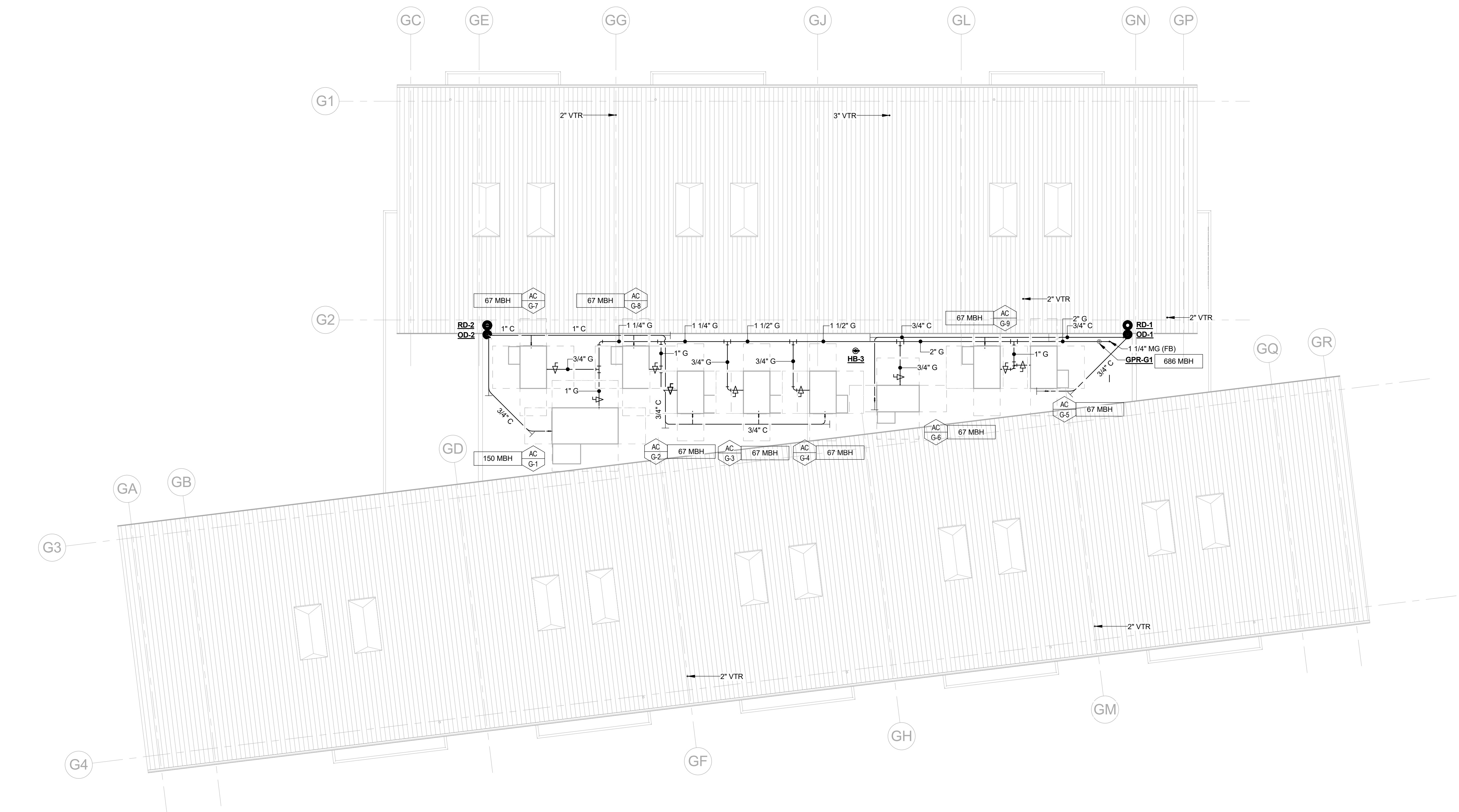
Drawing Number

PG3.1

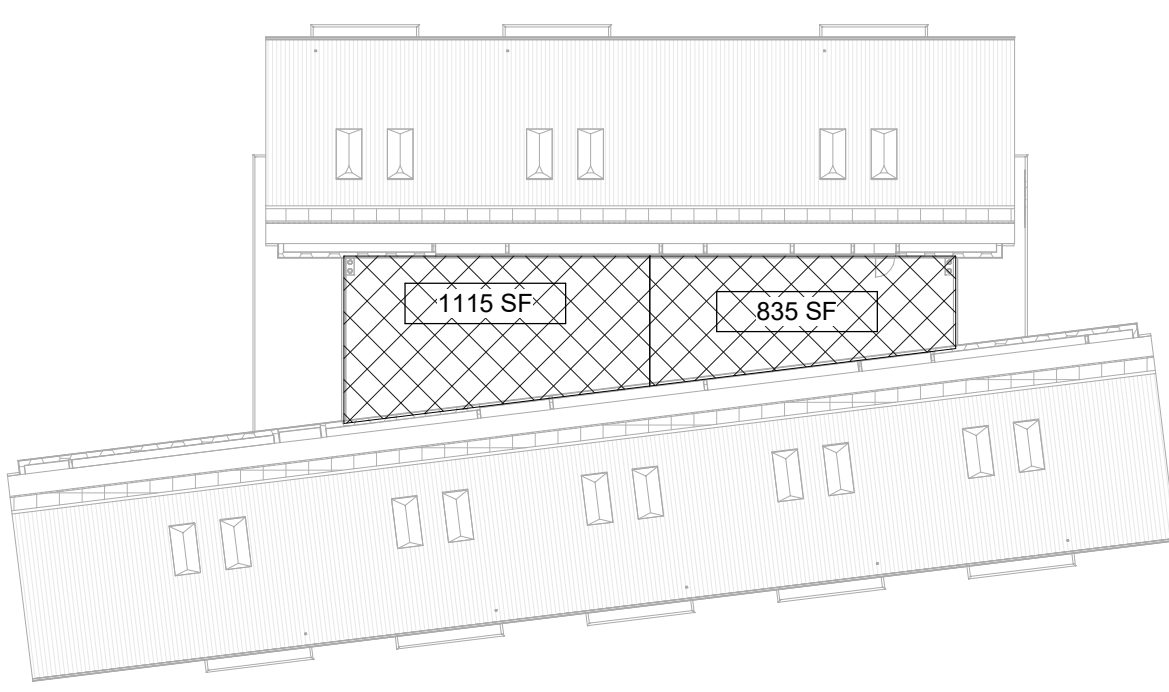
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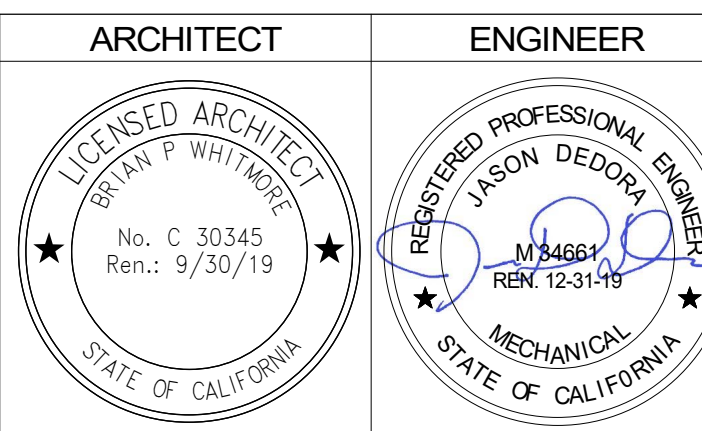




**1 BLDG G - PLUMBING ROOF PLAN**  
SCALE: 1/8" = 1'-0"



**2 BLDG G - ROOF DRAINAGE AREA**  
SCALE: 1" = 30'-0"



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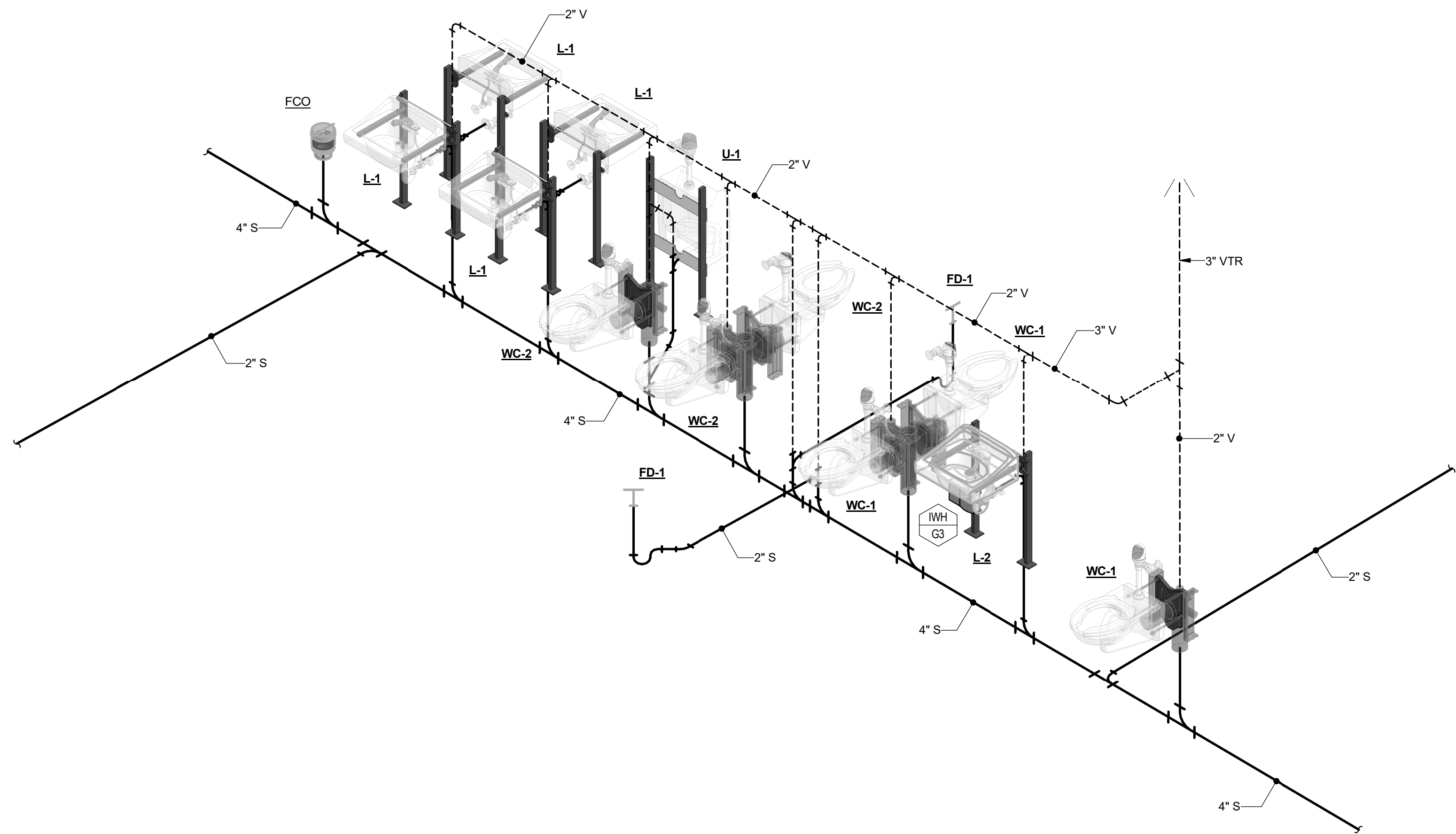
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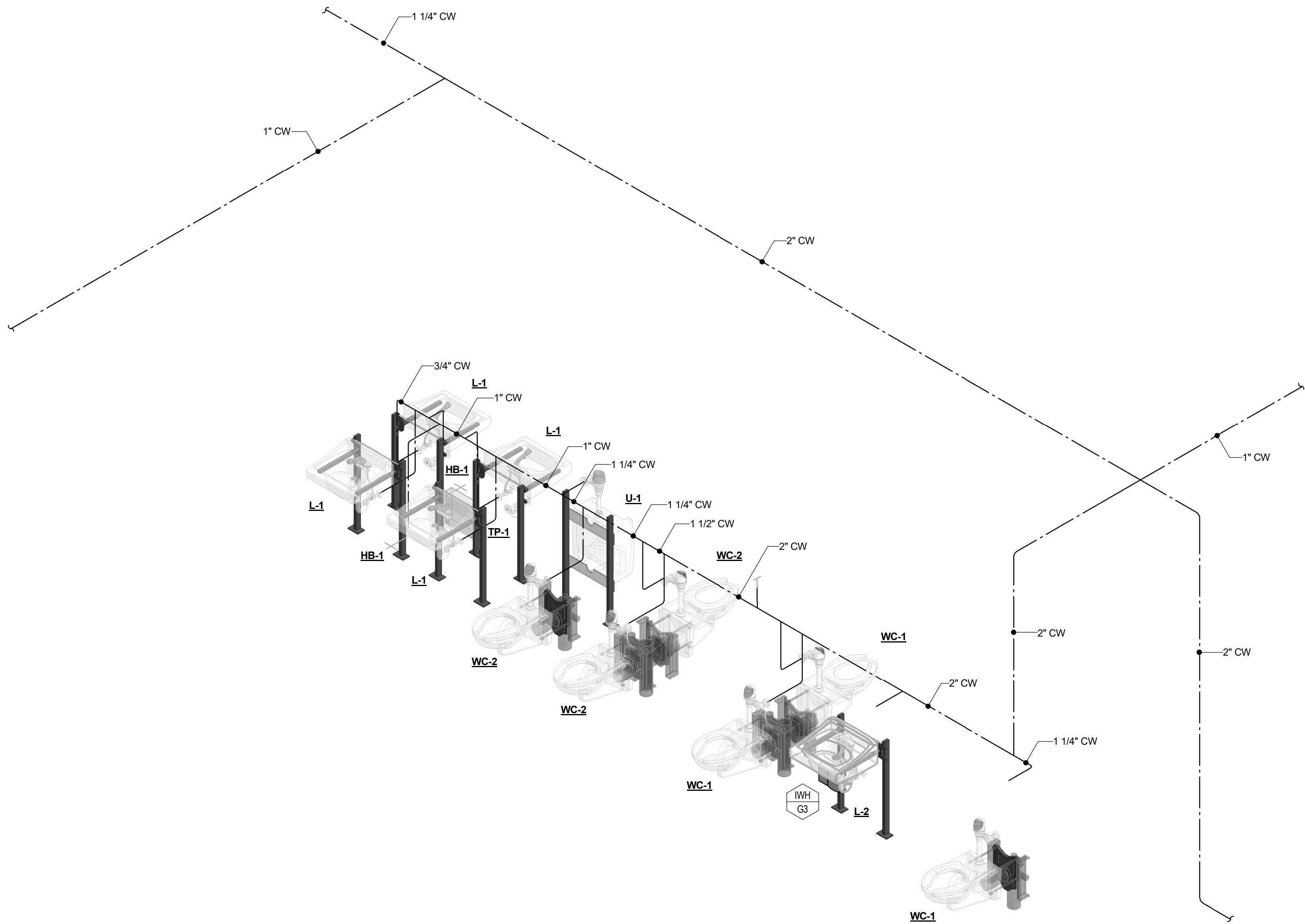
BUILDING G PLUMBING  
ROOF PLAN

Date 05/20/2019	Project Number 19003
Scale As indicated	Drawing Number PG4.1
Drawn Author	Checked Checker

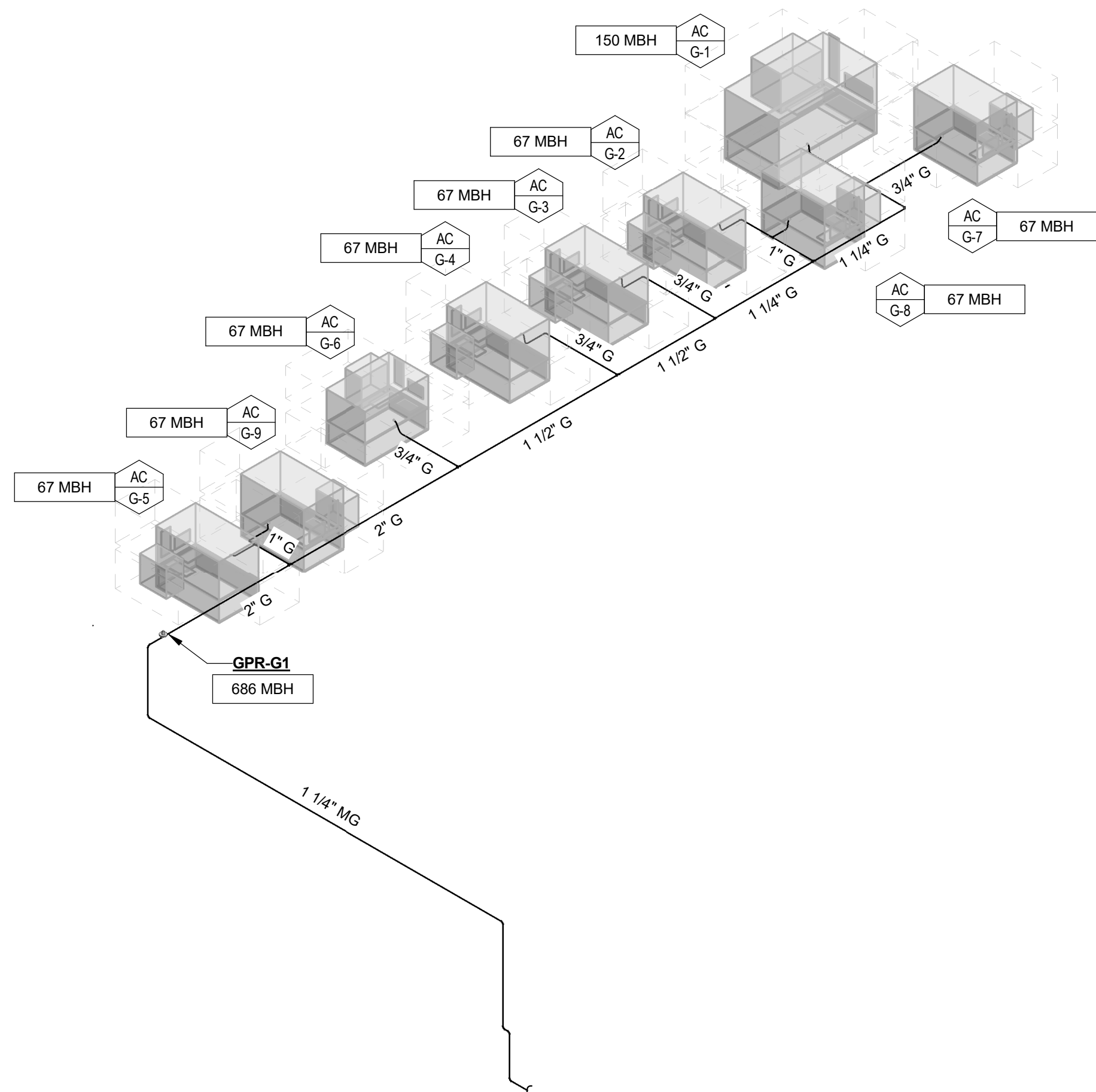




2 BLDG G - WASTE & VENT ISOMETRIC  
SCALE:



1 BLDG G - WATER ISOMETRIC  
SCALE:



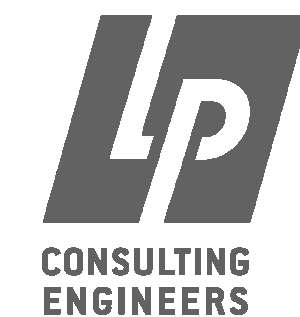
3 BLDG G - GAS ISOMETRIC  
SCALE:

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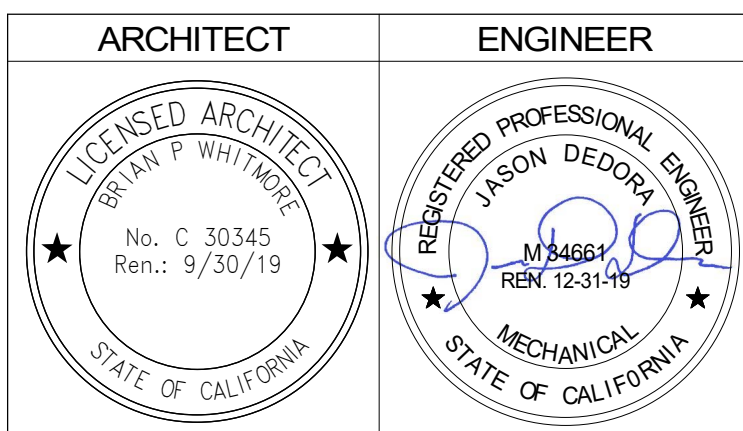
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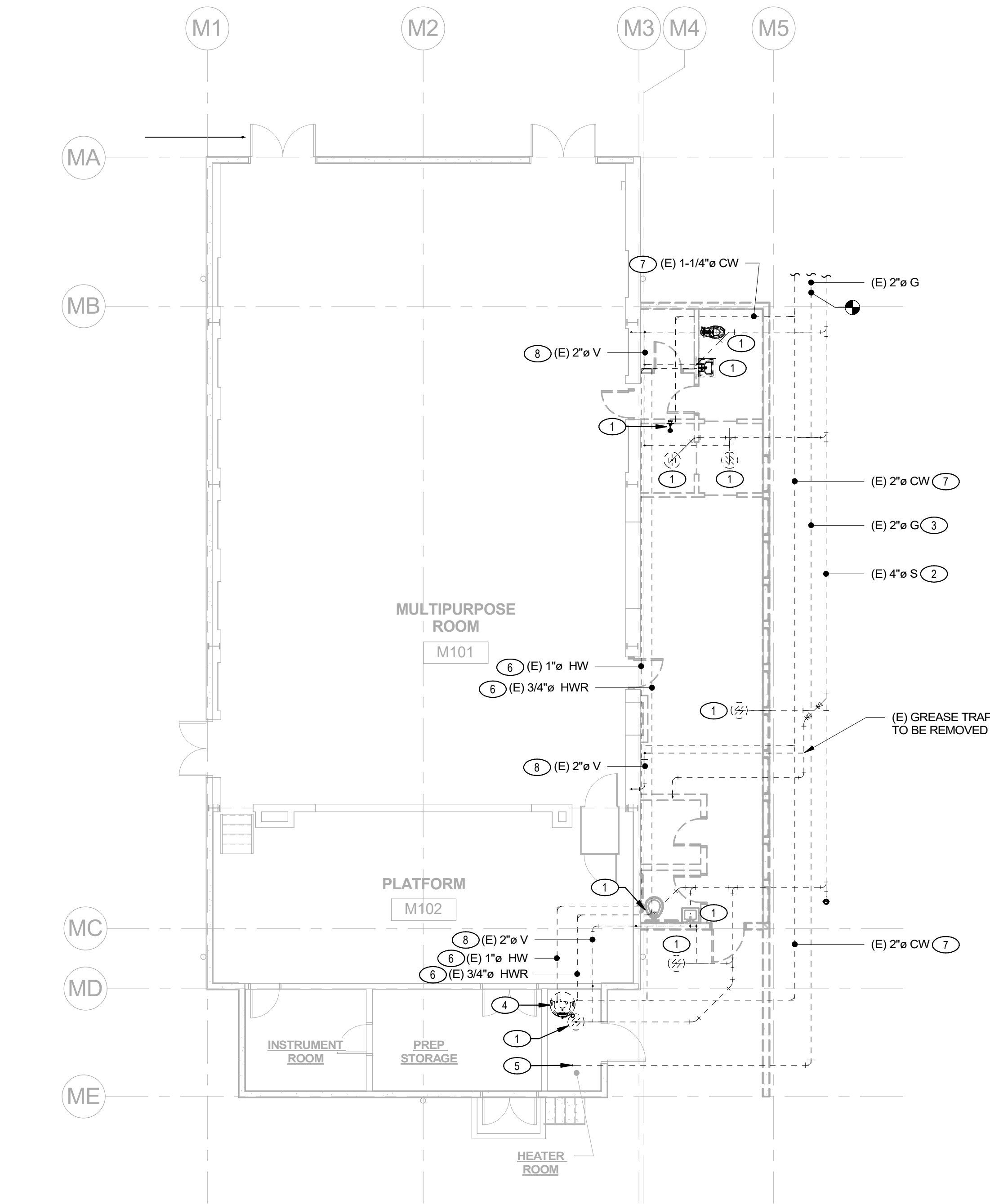
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BUILDING G PLUMBING  
ISOMETRICS

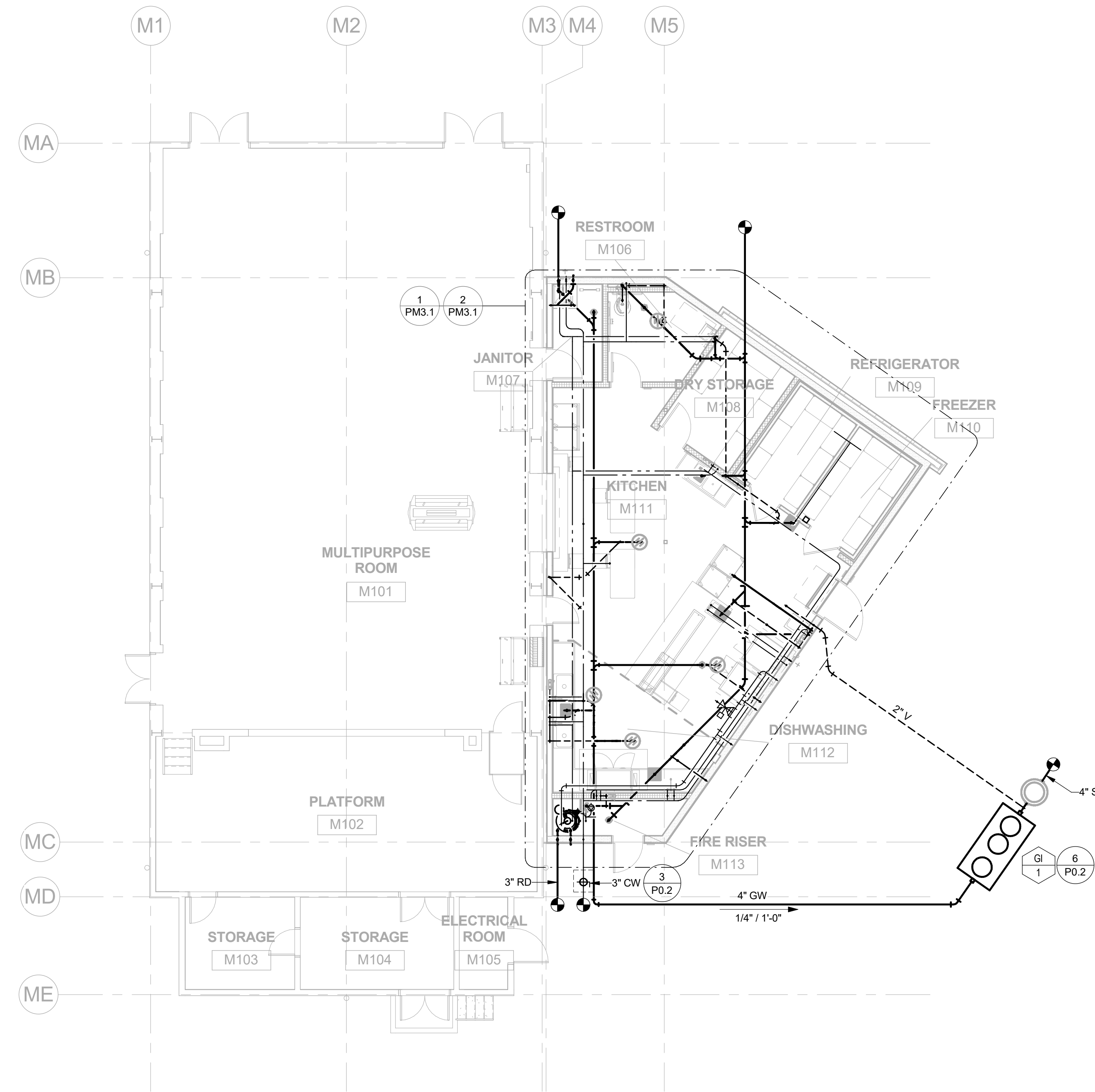
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PG5.1





1 BLDG M - PLUMBING DEMO FLOOR PLAN  
SCALE: 1/8" = 1'-0"



2 BLDG M - PLUMBING FLOOR PLAN  
SCALE: 1/8" = 1'-0"

- ### KEY NOTES
- 1 EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED PLUMBING PIPING TO BE REMOVED AND DISCARDED.
  - 2 EXISTING WASTE PIPING TO BE REMOVED AND DISCARDED.
  - 3 EXISTING GAS PIPING TO BE REMOVED AND DISCARDED.
  - 4 EXISTING WATER HEATER, CIRCULATION PUMP, ALL ASSOCIATED PLUMBING PIPING, AND VENT PIPING TO BE REMOVED AND DISCARDED.
  - 5 EXISTING GAS STUB PIPING TO BE REMOVED AND DISCARDED.
  - 6 EXISTING HW AND HWR PIPING TO BE REMOVED AND DISCARDED.
  - 7 EXISTING CW PIPING TO BE REMOVED AND DISCARDED.
  - 8 EXISTING VENT PIPING TO BE REMOVED AND DISCARDED.

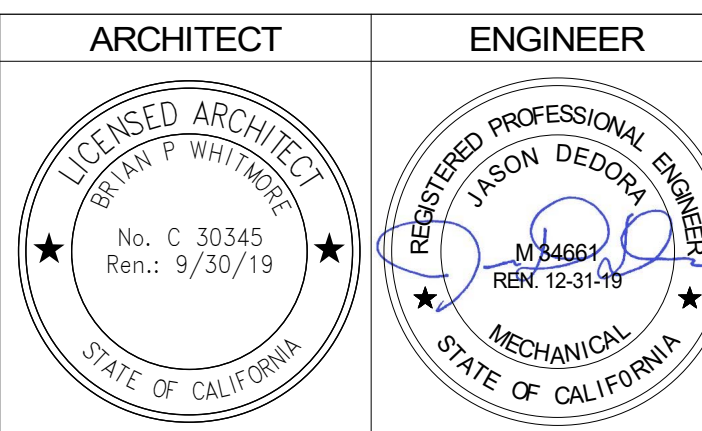
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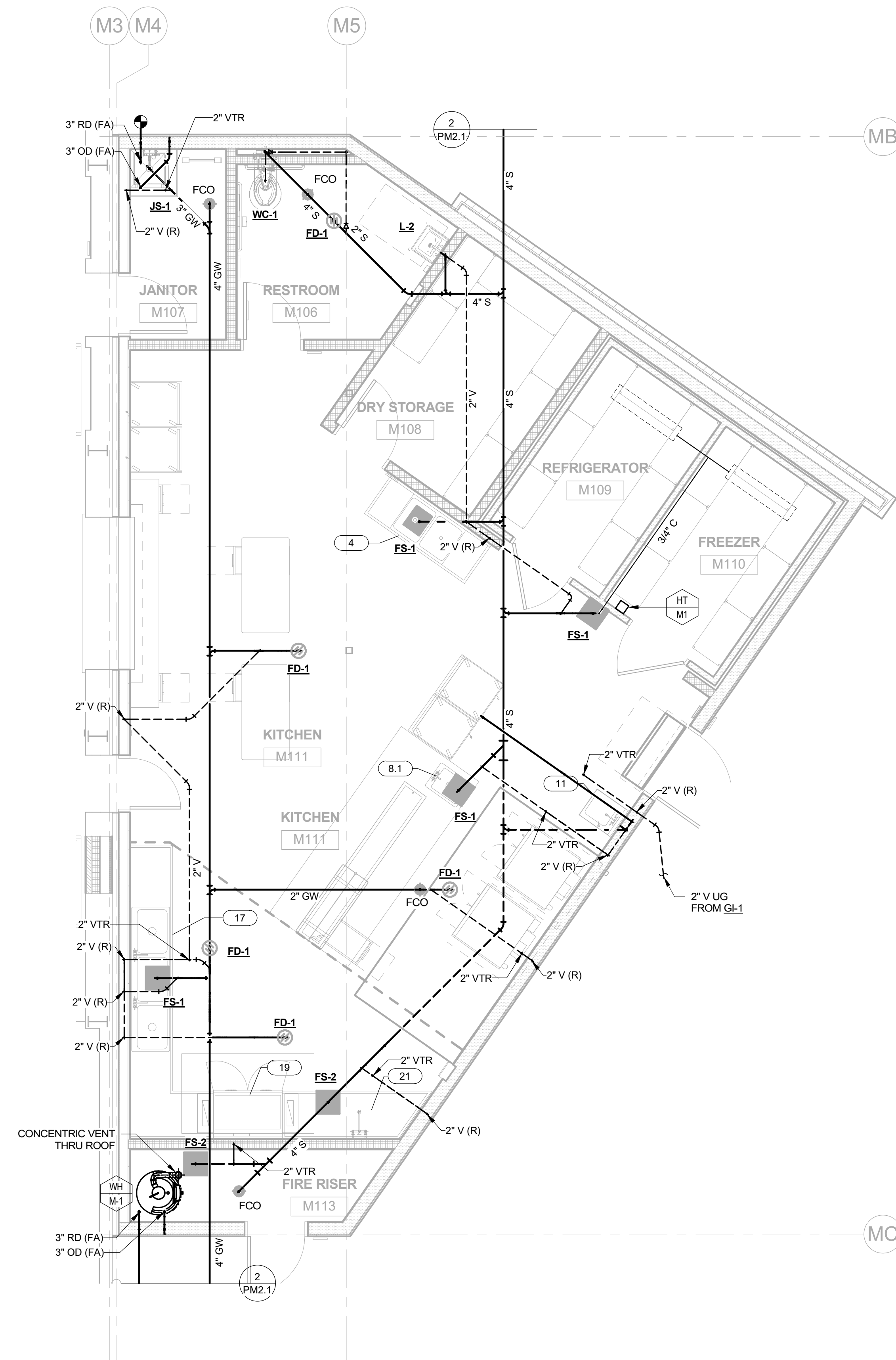
WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING M PLUMBING  
FLOOR PLAN

Date 05/20/2019	Project Number 19003
Scale 1/8" = 1'-0"	Drawing Number PM2.1
Drawn Author	Checked Checker

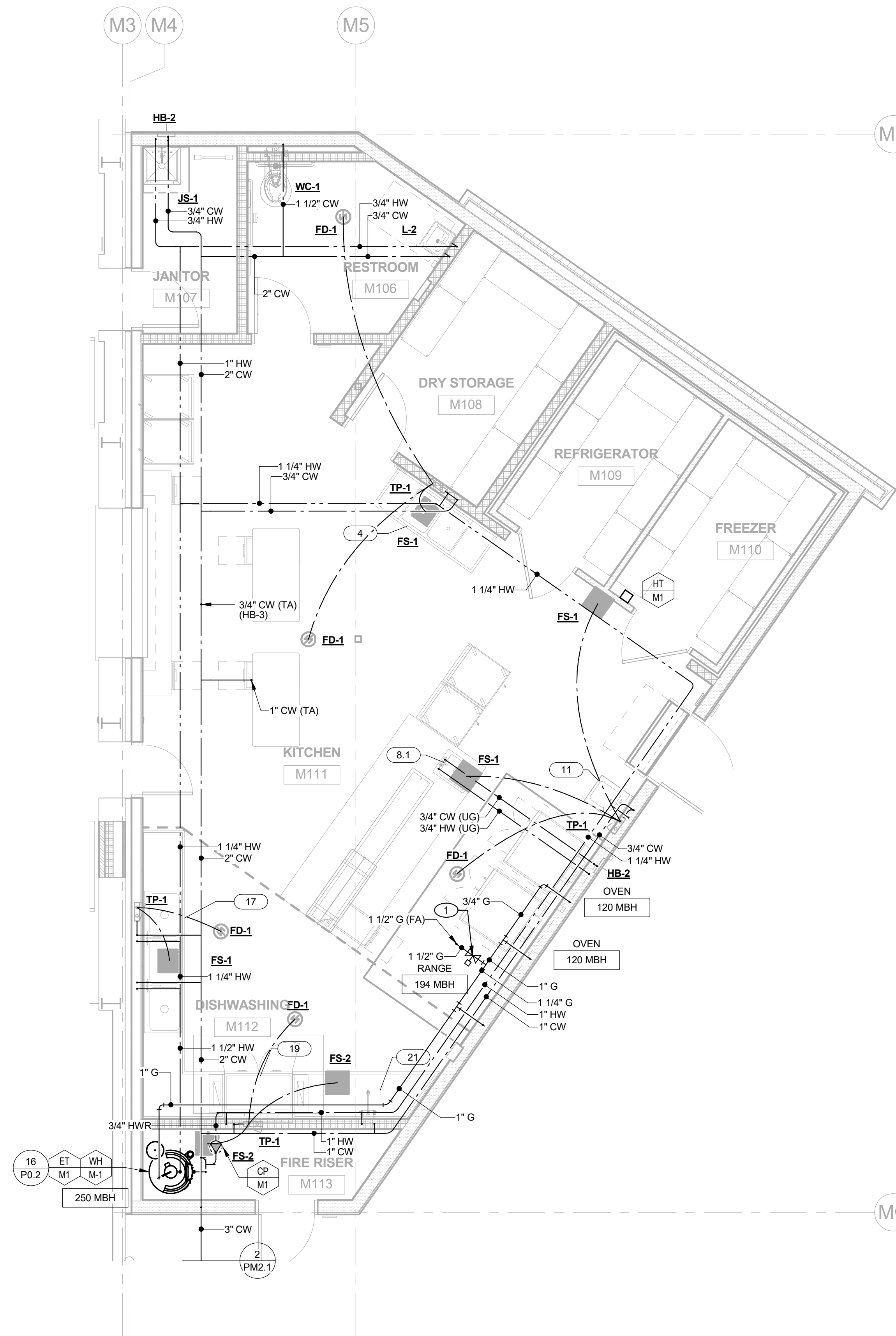


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**2 BLDG M - ENLARGED WATE & VENT PLAN**  
SCALE: 1/4" = 1'-0"

- KEY NOTES**
1. AUTOMATIC GAS SOV ACTIVATED BY HOOD FIRE SUPPRESSION SYSTEM. PROVIDE SIGN ON CEILING BELOW VALVE LABELED "GAS SHUT-OFF VALVE".



**1 BLDG M - ENLARGED WATER & GAS PLAN**  
SCALE: 1/4" = 1'-0"

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Sacramento, California 95814  
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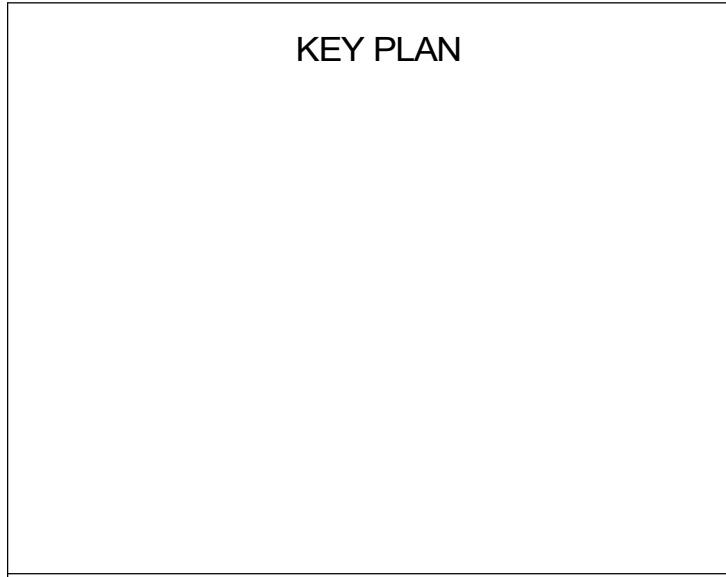
**LP** CONSULTING ENGINEERS  
MEP & FS / Sustainability / CxA  
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Roseville, CA 95678  
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NO.	REMARKS	DATE

DRAWING STATUS	DATE
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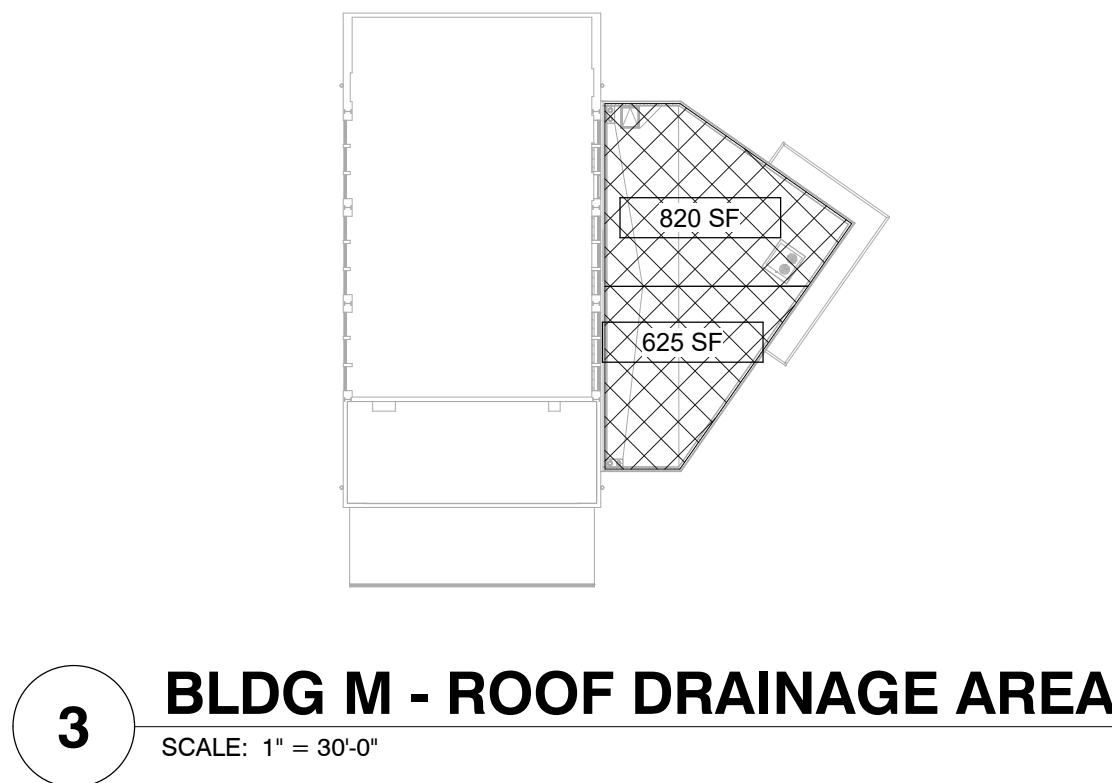
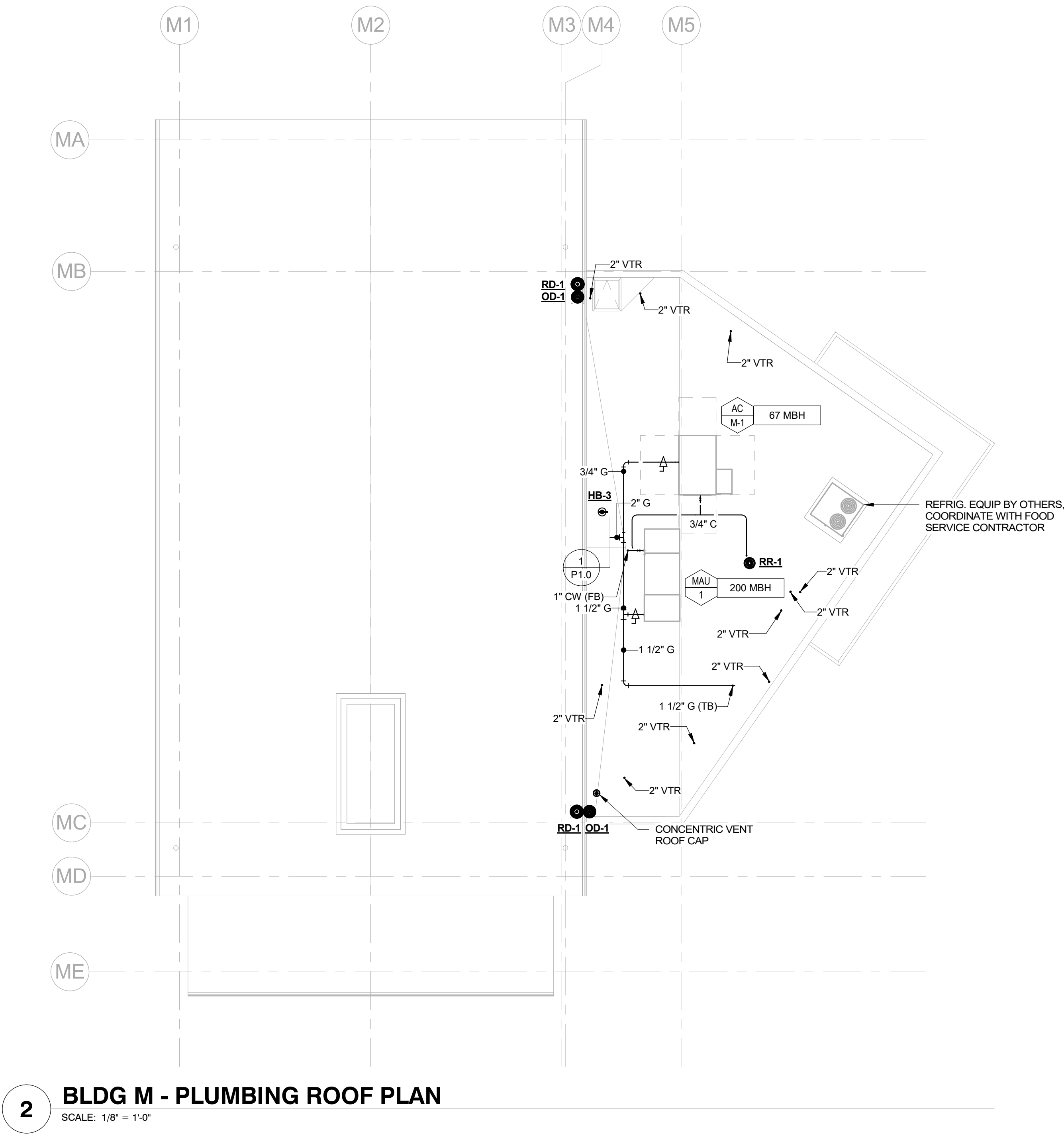
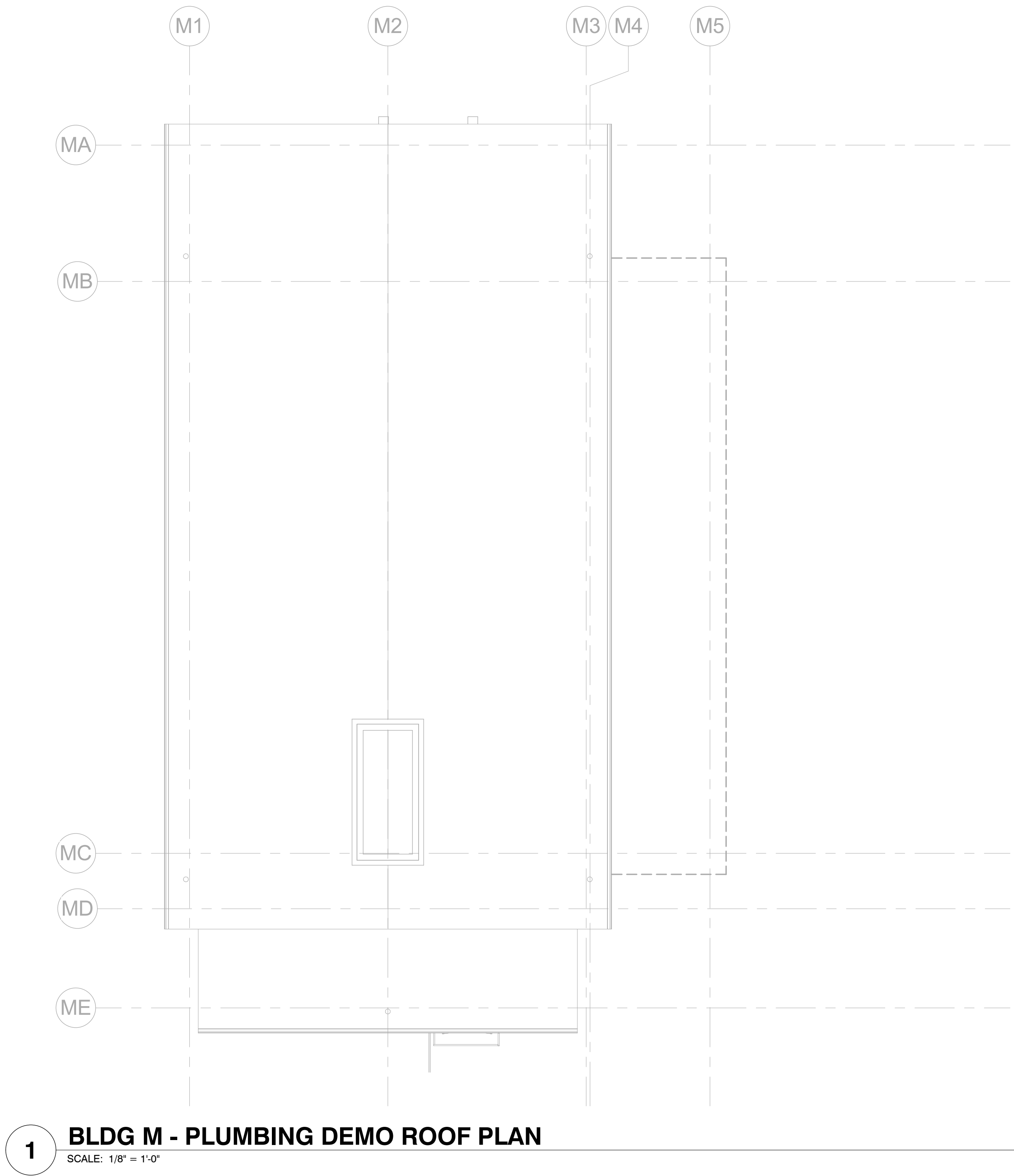
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**BUILDING M ENLARGED  
PLUMBING FLOOR PLAN**

Date 05/20/2019	Project Number 19003
Scale 1/4" = 1'-0"	Drawing Number <b>PM3.1</b>
Drawn Author	Checked Checker





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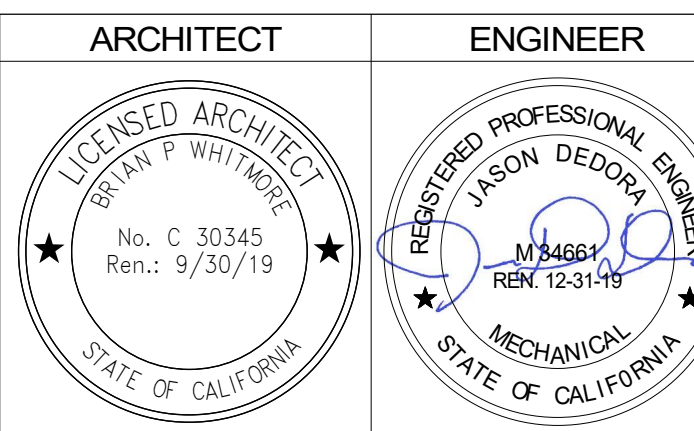
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KEY PLAN

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WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

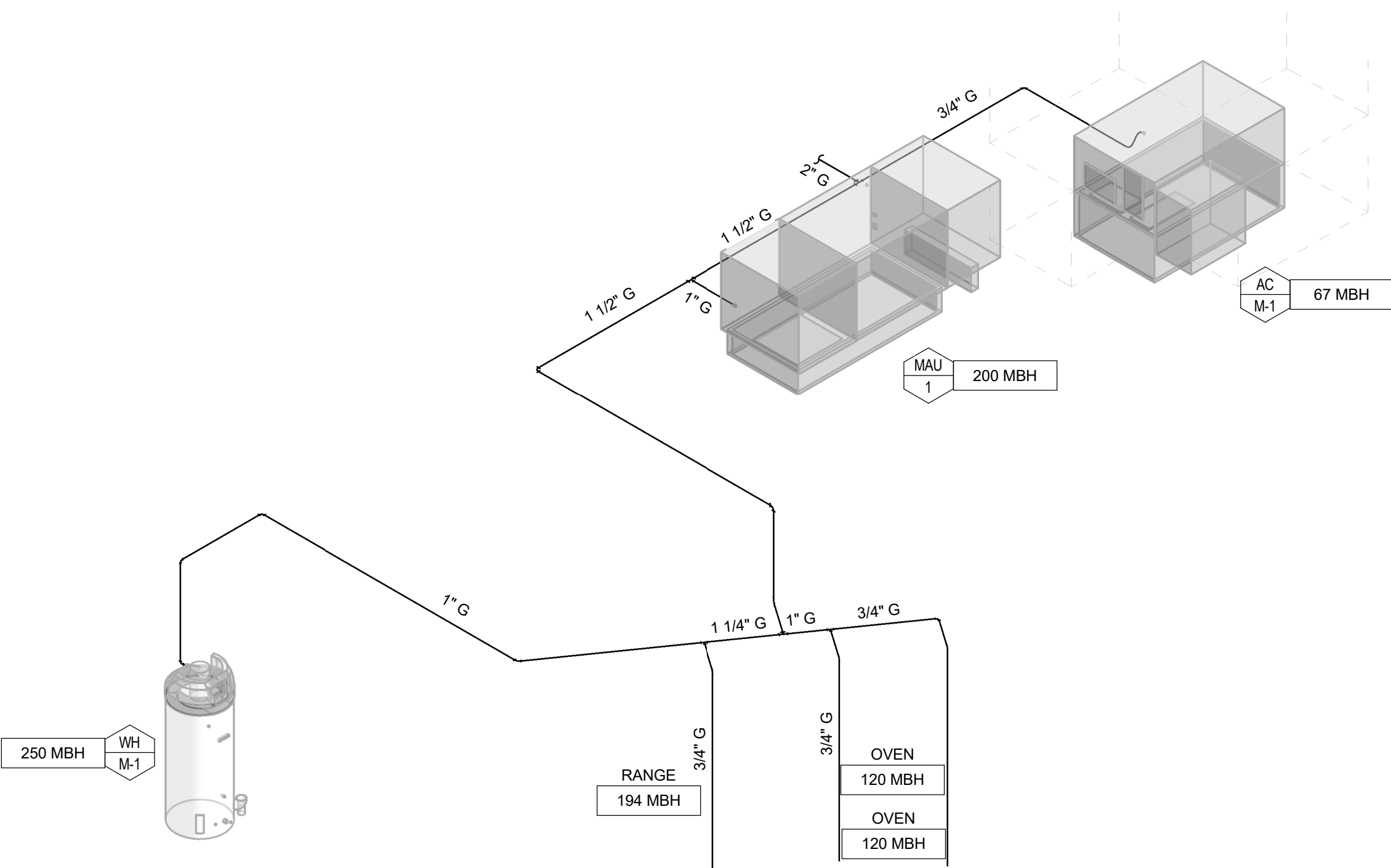
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BUILDING M PLUMBING  
ROOF PLAN

Date: 05/20/2019  
Scale: As indicated  
Drawn: Author  
Checked: Checker

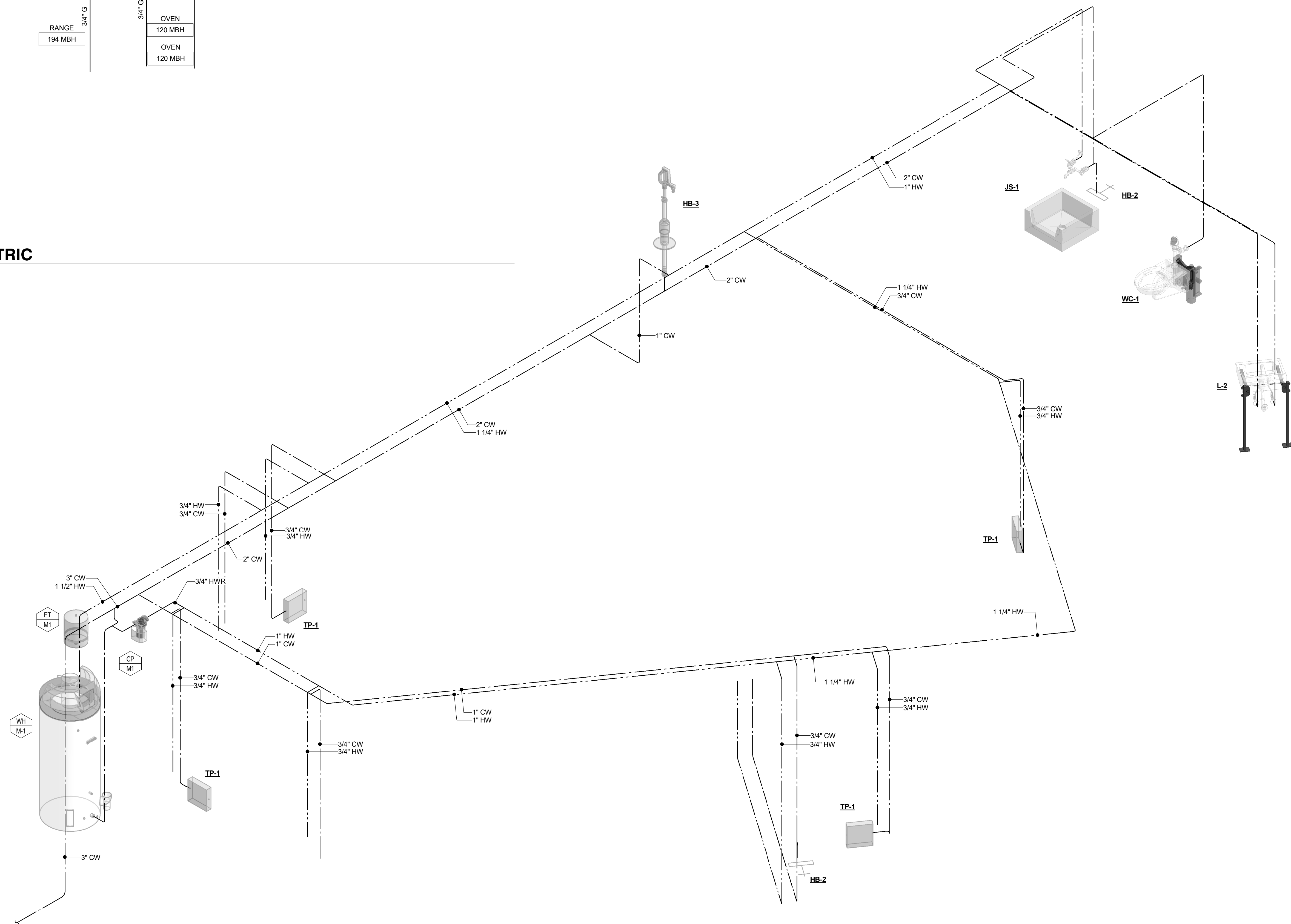
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2 BLDG M - GAS ISOMETRIC

SCALE:



1 BLDG M - WATER ISOMETRIC

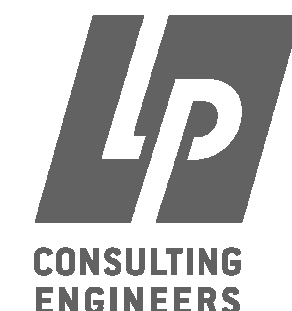
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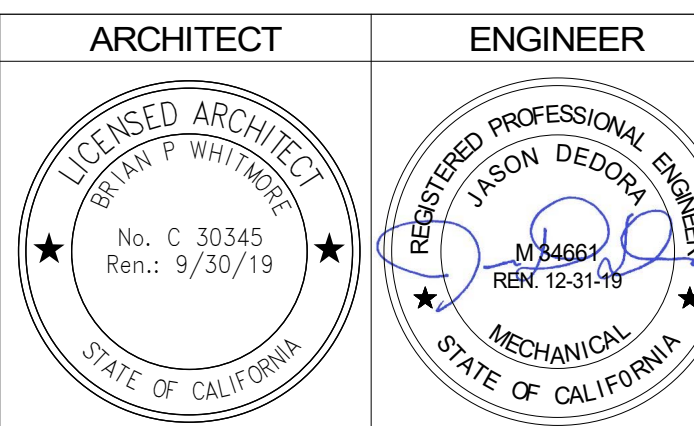
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REVISION HISTORY	NO.		REMARKS	DATE

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KEY PLAN

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DESIGN DEVELOPMENT

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BUILDING M PLUMBING  
ISOMETRICS

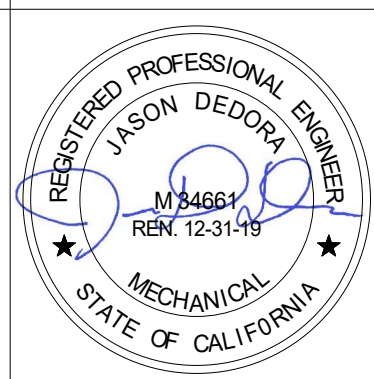
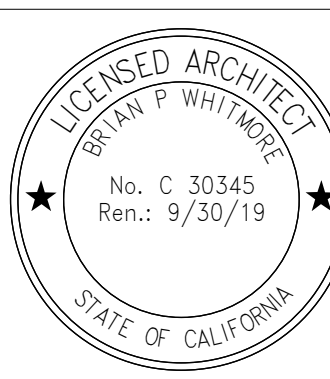
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ENGINEER



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DESIGN DEVELOPMENT

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BUILDING M PLUMBING  
ISOMETRICS

Date

05/20/2019

Scale

Project Number

19003

Drawing Number

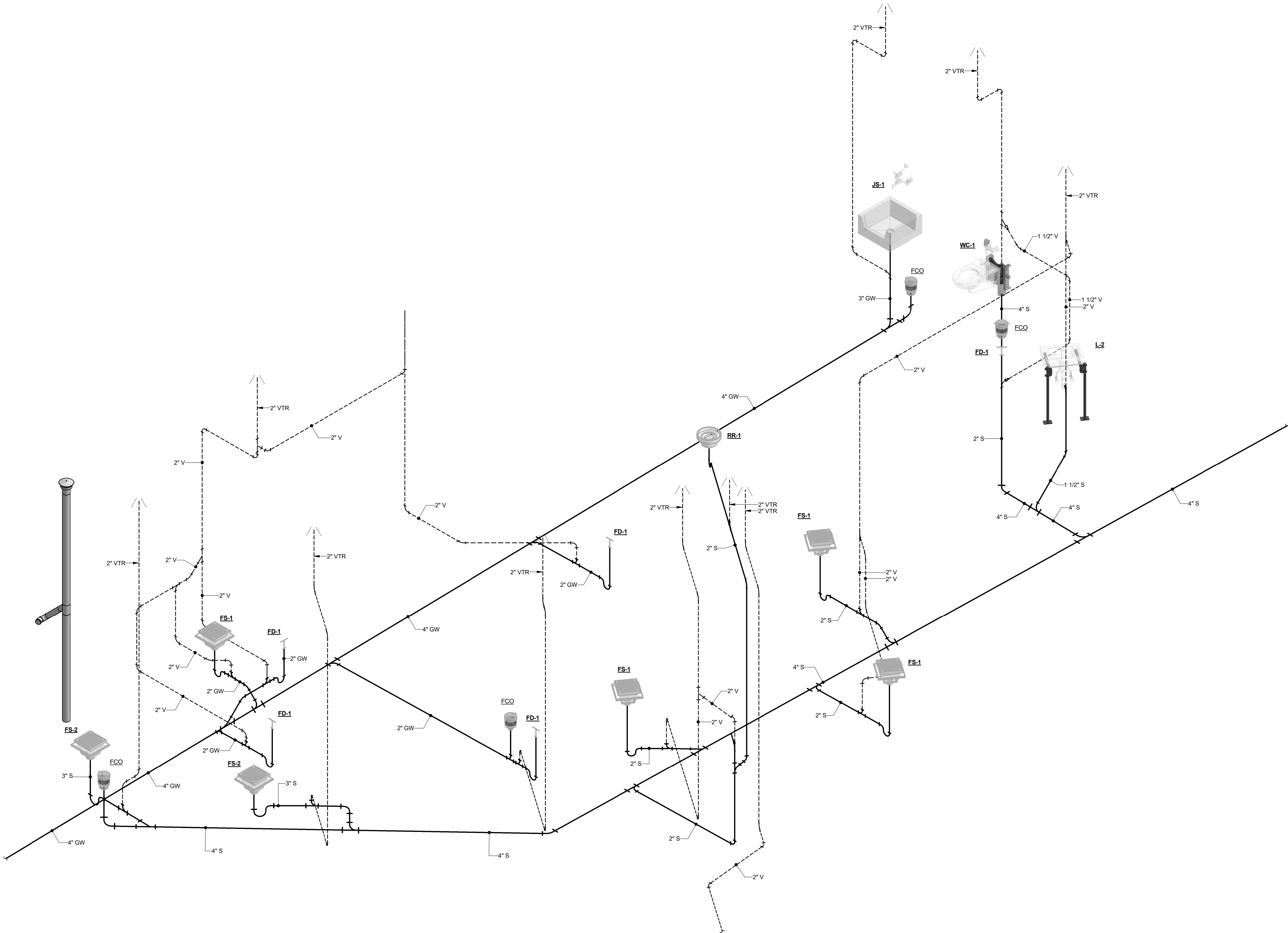
PM5.2

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Author

Checker



1 BLDG M - WASTE & VENT ISOMETRIC

SCALE:



GENERAL NOTES	
ALL GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.	
1.	THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR IN THE EXECUTION OF THE ELECTRICAL WORK AND TO BE INCLUDED IN CONJUNCTION WITH THE CONTRACT DOCUMENT DRAWINGS AND SPECIFICATION REQUIREMENTS. SOME OF THE GENERAL NOTES ARE EXCERPTS FROM THE SPECIFICATION.
2.	PROCURE PERMITS AND LICENSES REQUIRED. PAY ALL NECESSARY FEES AND ARRANGE FOR INSPECTIONS REQUIRED BY LOCAL CODES AND ORDINANCES AND UTILITY COMPANIES.
3.	COORDINATE ALL ELECTRICAL SERVICES WITH THE RESPECTIVE UTILITY COMPANIES AND PROVIDE ALL TRENCHING, CONDUITS, WIRING, METER FACILITIES AND OUTLETS REQUIRED BY THEM.
4.	WORKMANSHIP SHALL BE OF THE HIGHEST GRADE. DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE ACCEPTANCE OF THE ARCHITECT.
5.	INSTALL ALL EQUIPMENT, CONDUITS, OUTLETS, AND FIXTURES IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES (CEC, STATE, COUNTY AND CITY).
6.	DO NOT SCALE PLANS FOR FIXTURES, DEVICES, OR APPLIANCE LOCATIONS. USE FIGURED DIMENSIONS IF GIVEN OR CHECK MECHANICAL AND ARCHITECTURAL PLANS. ALSO REFER TO ACTUAL ON-SITE CONDITIONS.
7.	ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURERS SPECIFICATIONS AND CEC 110.3.
8.	ALL ELECTRICAL DEVICES AND EQUIPMENT, FIXTURES, CONDUITS AND WIRING SHOWN ON THESE PLANS ARE NEW, UNLESS OTHERWISE NOTED.
9.	OUTLET BOXES INSTALLED IN FIRE WALLS SHALL BE ONE-PIECE STEEL AND INSTALLED IN SEPARATE (STAGGERED) STUD PENETRATIONS, MINIMUM 24 INCHES HORIZONTAL SEPARATION. FIRE WALLS SHALL BE MADE IN ACCORDANCE WITH CBC AND ELECTRICAL CODES.
10.	THE FINAL LOCATION OF ALL OUTLETS SHALL BE VERIFIED WITH THE ARCHITECT AND/OR OWNER AT TIME OF CONSTRUCTION.
11.	ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHER-PROTECTED.
12.	CONTRACTOR SHALL VERIFY THAT ALL LIGHTING FIXTURES, CEILING TRIMS, AND FRAMES ARE COMPATIBLE WITH CEILING SYSTEM INSTALLED.
13.	CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATIONS AND INSTALLATIONS WITH THE MECHANICAL CONTRACTOR. MAINTAIN REQUIRED CLEARANCES (MINIMUM 3 INCHES) BETWEEN THE LIGHT FIXTURES AND MECHANICAL DUCTS OR EQUIPMENT FOR PROPER OPERATION, INSTALLATION AND/OR REMOVAL OF FIXTURES.
14.	BEFORE SUBMITTING FOR ARCHITECT'S REVIEW AND PLACING ORDER FOR THE LIGHT FIXTURES, THE CONTRACTOR SHALL VERIFY THE VOLTAGE OF ALL THE LIGHTING FIXTURES TO MATCH THE VOLTAGE OF THE SERVICE PANEL. WHETHER THE VOLTAGE FOR THE LIGHT FIXTURES ARE SHOWN ON THE PLAN OR NOT.
15.	PLACEMENT AND CIRCUITING OF EXIST SIGNS AND EGRESS LIGHTING COMPLY WITH CBC REQUIREMENTS.
16.	ALL CONDUIT SHALL BE ROUTED CONCEALED UNLESS NOTED ON PLAN OR ACCEPTED BY THE ARCHITECT.
17.	PROVIDE ALL NECESSARY SLEEVES AND INSERTS FOR ALL WORK PASSING THROUGH OR ATTACHING TO WALLS, FLOORS, OR CEILINGS.
18.	ALL WIRING SHALL BE INSTALLED IN RIGID METALLIC CONDUIT, UNLESS OTHERWISE NOTED. CONDUITS INSTALLED CONCEALED IN WALL AND CEILING MAY BE EMT WITH STEEL COMPRESSION TYPE FITTINGS. PVC WHERE INSTALLED UNDERGROUND AND/OR UNDER SLAB. ALL EXPOSED CONDUITS SHALL BE RIGID STEEL CONDUITS WITH THREADED TYPE FITTINGS. INSTALL ALL CONDUITS IN ACCORDANCE WITH CEC4 STANDARDS OF INSTALLATION.
19.	ELECTRICAL NON-METALLIC TUBING (ENT) AND MC CABLE ARE NOT PERMITTED TO BE USED FOR THIS PROJECT, NO EXCEPTIONS.
20.	WHERE EXISTING CONDUITS, CONCEALED OR EXPOSED, AND (WIRED)LOD) SURFACE RACEWAY IS NOT IN PLACE AS SHOWN ON PLANS, PROVIDE NEW CONDUITS AND (WIRED)LOD) SURFACE RACEWAY FOR THE NEW WORK. VERIFY EXISTING CONDITION ON SITE AND PROVIDE ALL NECESSARY NEW MATERIAL, APPARATUS, AND WORK THAT ARE REQUIRED TO BE INCLUDED IN THE BID PACKAGE.
21.	CONDUCTORS, #8 AND LARGER, SHALL BE STRANDED COPPER WITH THINWYTHN INSULATION, UNLESS OTHERWISE NOTED.
22.	PROVIDE WORKING CLEARANCE PER CEC 110.28 FOR SERVICE PANEL, SUBPANELS, MOTOR DISCONNECT SWITCHES, CONTROL SECTIONS, HVAC EQUIPMENT, APPLIANCES, ETC.
23.	PROVIDE A WARNING LABEL (SIGN) CLEARLY VISIBLE TO QUALIFIED PERSONS TO COMPLY WITH NEC AND CEC 116.16 OF POTENTIAL ELECTRIC ARC FLASH HAZARDS AT SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER CEC SECTION 110.24(A).
24.	BUILDING SERVICE AND SUBPANELS TO COMPLY WITH CEC 110.9 AND 110.10 INTERRUPTING RATING AND BRACING. PROVIDE A.I.C. CALCULATIONS FOR SUBPANELS IF INTERRUPTING RATING TO BE USED IS LOWER THAN MAIN SERVICE RATING.
25.	ALL APPLIANCES SHALL COMPLY WITH CEC ARTICLE 422. APPLIANCE CONTROL AND PROTECTION PER CEC 422-III, BRANCH CIRCUITS PER 422-II.
26.	BUILDING EXPANSION JOINTS MAY OR MAY NOT BE INDICATED ON THE ELECTRICAL DRAWINGS. VERIFY THE LOCATIONS OF ALL APPLICABLE BUILDING EXPANSION JOINTS WITH THE ARCHITECTURAL DRAWINGS. WIRING METHODS ACROSS EXPANSIONS JOINTS SHALL INCLUDE USE OF FLEXIBLE FITTINGS OR OTHER DEVICES AS APPROPRIATE TO EACH APPLICATION. IN NO CASE SHALL CONDUIT CROSS SUCH A JOINT IN BUILDING CONSTRUCTION WITHOUT USE OF THE APPROPRIATE WIRING METHODS.
27.	CONTRACTOR SHALL SIZE ALL THE INTERIOR AND EXTERIOR BUILDING PULL BOXES AND UNDERGROUND PULL BOXES PER CEC 314.16 AND COMPLY WITH CEC 314.28 FOR INSTALLATION OF RACEWAYS AND WIRING AS REQUIRED BY CODE, UNLESS OTHERWISE NOTED.
28.	WHERE ACCESSIBILITY IS NOT AVAILABLE TO ELECTRICAL OUTLETS, DEVICES AND/OR EQUIPMENT, COORDINATE WITH THE ARCHITECT FOR PROVISIONS TO PROVIDE ACCESSIBILITY TO THEM.
29.	CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL DRAWINGS AND PROVIDES ALL CONDUITS AND CONTROL WIRING AND POWER WIRING SHOWN ON THE MECHANICAL DRAWINGS THAT IS NOT SHOWN ON THE ELECTRICAL PLANS.
30.	CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS AND COORDINATE FOR THE EQUIPMENT LOCATIONS. COORDINATE ROOF PENETRATION WITH THE MECHANICAL CONTRACTOR FOR MECHANICAL CONNECTIONS. ENTER ROOF MOUNTED UNITS THROUGH EQUIPMENT MOUNTING CURSES WHERE POSSIBLE. VERIFY ON SITE.
31.	PROVIDE CONVENIENCE OUTLET WITHIN 25 FEET OF MECHANICAL EQUIPMENT PER U.M.C. WHERE LOCATED OUTSIDE. PROVIDE WEATHERPROOF AND GFCI CONVENIENCE OUTLET. SECURE ROOF MOUNTED OUTLET TO THE MECHANICAL EQUIPMENT. VERIFY LOCATION IN FIELD WITH THE MECHANICAL CONTRACTOR.
32.	VERIFY SINGLE-POINT CONNECTIONS TO ROOF MOUNTED HVAC UNITS WITH MECHANICAL CONTRACTOR ON-SITE PRIOR TO ELECTRICAL. ROUGH-IN. PROVIDE DUAL DISCONNECTS IF TWO-POINT CONNECTIONS IS REQUIRED, WHETHER SHOWN ON PLANS OR NOT.
33.	VERIFY SINGLE-POINT CONNECTIONS TO ROOF MOUNTED HVAC UNITS WITH MECHANICAL CONTRACTOR ON-SITE PRIOR TO ELECTRICAL. ROUGH-IN. PROVIDE DUAL DISCONNECTS IF TWO-POINT CONNECTIONS IS REQUIRED, WHETHER SHOWN ON PLANS OR NOT.
34.	COORDINATE THE HVAC EQUIPMENT FOR FUSES REQUIRE. WHERE THE FUSES ARE REQUIRED, VERIFY FUSE SIZE ON-SITE AND PROVIDE FOR HVAC EQUIPMENT PER UNIT NAMEPLATE SPECIFICATIONS.
35.	MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430-IX AND 440.11.
36.	MOTOR STARTERS FOR HVAC EQUIPMENT ARE PROVIDED BY MECHANICAL CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.
37.	ALL CONNECTIONS FROM THE DISCONNECT SWITCHES TO HVAC UNITS SHALL BE COPPER CONDUCTORS. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430-VII, 430-VIII, AND 440-II.
38.	VERIFY LOCATION AND HEIGHT OF ALL MECHANICAL OR FIXTURE EQUIPMENT OUTLETS WITH SUPPLIER PRIOR TO ANY ROUGH-IN WORK. PROVIDE ALL RUNS AND CONNECTIONS TO EQUIPMENT.
39.	ALL TERMINATION PROVISIONS OF EQUIPMENT, INCLUDING CIRCUITS RATED 100 AMPERES OR LESS SHALL BE RATED AT 60 DEGREE, CENTIGRADE PER CEC 110.14(G).
40.	ALL LIGHT FIXTURES INSTALLED OVER FOOD HANDLING OR FOOD PREPARATION AREAS, OPEN FOOD STORAGE, AND UTENSIL WASHING AREAS SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE READILY CLEANABLE.

OCCUPANCY AND DAYLIGHT SENSOR NOTES	
1. OCCUPANCY SENSORS AND DAYLIGHTING SENSORS SYSTEMS OPERATION:	
A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSORS IN THE CORRECT LOCATION REQUIRED FOR COMPLETE AND PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGE(S) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. ROOMS SHALL HAVE NINETY (90) TO ONE HUNDRED (100) PERCENT COVERAGE TO COMPLETELY COVER THE CONTROLLED AREA TO ACCOMMODATE ALL OCCUPANCY HABITS OF SINGLE OR MULTIPLE OCCUPANTS AT ANY LOCATION WITHIN THE ROOM(S). THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGNRAMATIC AND INDICATE ONLY THE ROOMS THAT ARE TO BE PROVIDED WITH SENSORS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM.	
B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE A PRE-INSTALLATION MEETING WITH MANUFACTURERS FACTORY AUTHORIZED REPRESENTATIVE, AT THE OWNER'S FACILITY, TO VERIFY PLACEMENT OF SENSORS AND INSTALLATION CRITERIA.	
C. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL PROPER ADJUSTMENTS TO ASSURE OWNER'S SATISFACTION WITH THE OCCUPANCY SYSTEM. IF THE CONTRACTOR IS INCAPABLE TO MAKE ALL PROPER ADJUSTMENTS, THE CONTRACTOR SHALL PROVIDE THE FACTORY STARTUP IN THAT IT WILL BE THE MANUFACTURER'S RESPONSIBILITY TO VERIFY ALL PROPER ADJUSTMENTS AND TRAIN OWNER'S PERSONNEL TO ENSURE OWNER'S SATISFACTION WITH THE OCCUPANCY SYSTEM.	
D. PROPER JUDGMENT MUST BE EXERCISED IN EXECUTING THE INSTALLATION SO AS TO ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL COMPONENTS. THE CONTRACTOR SHALL ALSO PROVIDE, AT THE OWNER'S FACILITY, THE TRAINING NECESSARY TO FAMILIARIZE THE OWNER'S PERSONNEL WITH THE OPERATION, USE, ADJUSTMENT, AND PROBLEM SOLVING DIAGNOSIS OF THE OCCUPANCY SENSING DEVICES AND SYSTEMS.	
2. OCCUPANCY SENSORS AND DAYLIGHTING SENSORS COMMISSIONING:	
A. UPON COMPLETION OF THE INSTALLATION, CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE OCCUPANCY-BASED LIGHTING CONTROL SYSTEM.	
B. UPON COMPLETION OF THE SYSTEM FINE TUNING, THE CONTRACTOR SHALL ARRANGE FOR THE FACTORY AUTHORIZED TECHNICIAN TO PROVIDE THE PROPER TRAINING TO THE OWNER'S PERSONNEL IN THE ADJUSTMENT AND MAINTENANCE OF THE SENSORS.	

DSA REQUIRED ANCHORAGE NOTES	
MEP COMPONENT ANCHORAGE NOTE:	
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 15, 29 AND 30.	
1. ALL PERMANENT EQUIPMENT AND COMPONENTS.	
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.	
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.	
THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.	
A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.	
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.	
FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.	
THE METHOD OF SHOWING BRACING AND ATTACHMENT TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.	
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E)	
MP MD PP E <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.	
MP MD PP E <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM) #0043-13.	
MP MD PP <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.	

UNDERGROUND TRENCHING NOTES	
1. CONTRACTOR SHALL PROTECT ANY APPLICABLE EXISTING STREET LIGHTING, UTILITY POLES, OVERHEAD LINES, UNDERGROUND WIRING, AND UTILITY PULLBOXES DURING CONSTRUCTION.	
2. UNDERGROUND TRENCHING:	
A. USE EXTREME CAUTION WHEN DIGGING TO AVOID BURIED ELECTRICAL CABLES. CALL UNDERGROUND SERVICE ALERT (U.S.A.) 800-277-2600, 48 HOURS BEFORE DIGGING.	
B. BEFORE START OF ANY UNDERGROUND TRENCHING FOR CONDUIT RUNS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ALL PLANS OF OTHER TRADES (ARCHITECTURAL, CIVIL, LANDSCAPE) AND SITE CONDITIONS TO AVOID CONFLICT.	
C. TRENCHING AND BACKFILLING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. COORDINATE WITH CIVIL, LANDSCAPE AND ARCHITECTURAL SITE PLAN PRIOR TO THE TRENCHING, ETC. AND THE INSTALLATION OF THE ELECTRICAL SYSTEM.	
D. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC, UL LISTED FOR DIRECT BURIAL, AND TERMINATED WITH FACTORY END BELL FITTINGS. ALL ELBOWS, BENDS AND TURNS TRANSITIONING TO GRADE SHALL BE INSTALLED USING PER MANUFACTURED 40-MIL PVC COATED GALVANIZED STEEL ELBOWS AND OFFSETS.	
E. ALL UNDERGROUND SERVICE CONDUITS SHALL BE SEALED TO COMPLY WITH CEC 230.8.	
F. PROVIDE 24" MINIMUM COVERAGE FOR UNDERGROUND CONDUITS, UNLESS OTHERWISE NOTED. THE EXCEPTION IS FOR PG&E SERVICE CONDUITS WHICH SHALL HAVE A 36" MINIMUM SEPARATION BETWEEN THE POWER AND LOW VOLTAGE SYSTEM UNDERGROUND CONDUITS. TRENCHES SHALL ALL BE INSTALLED WITH A RED POLYETHYLENE WARNING RIBBON LABELED "ELECTRICAL," LOCATED IF BELOW GRADE IN THE TRENCH.	
G. PROVIDE UNDERGROUND TRACER WHERE NON-METAL CONDUITS ARE INSTALLED.	
H. PROVIDE PARTEX IDENTIFICATION TAGS TO IDENTIFY UNDERGROUND CIRCUITS.	
I. ALL UNDERGROUND SPLICES SHALL BE MADE WATERPROOF BY PROVIDING WITH "SPlice-KOTE" SPLICE KITS OR OTHER ACCEPTED METHODS. ALL FUSEHOLDERS SHALL BE WATERPROOF.	
J. ALL UNDERGROUND RACEWAYS SHALL BE PROVIDED WITH A #8 AWG MINIMUM SIZE COPPER EQUIPMENT GROUNDING CONDUCTOR, WHETHER SHOWN ON PLAN OR NOT, UNLESS OTHERWISE NOTED.	
K. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT TO REPAIR AND REPLACE ANY AND ALL DAMAGES TO EXISTING POZ WALKS, AC PAVING, UTILITIES, TREES, TURF, PLANTED AREAS AND OTHER FACILITIES RESULTING FROM THIS PROJECT. WHEN CUTTING OR TRENCHING THROUGH EXISTING CONCRETE SIDEWALKS, DRIVEWAYS, AND WALKWAYS, THE CONTRACTOR SHALL BE REQUIRED TO COMPLETELY REPLACE ENTIRE SECTIONS OF CONCRETE PANELS FROM SCOREMARK TO SCOREMARK AFFECTED BY THE CONSTRUCTION WORK. ALL SIDEWALKS, DRIVEWAYS, AND WALKWAYS SHALL BE REPLACED TO MATCH ADJACENT CONDITION AND AS DIRECTED BY THE ARCHITECT.	

DEMOLITION GENERAL NOTES	
ALL DEMOLITION GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.	
1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS AND ARE SHOWN FOR CLARITY. IT SHALL BE RECALCULATED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.	
2. EXISTING ELECTRICAL MAIN SERVICE IS BEING REPLACED WITH NEW THAT IS TO BE INCLUDED IN THE SCOPE OF WORK. CONTRACTOR SHALL VERIFY AND COORDINATE. THE SEQUENCE OF WORK WITH THE LOCAL UTILITY COMPANY. THE OWNER/DISTRICT'S REPRESENTATIVE AND OTHER TRADES AT THE EARLIEST START OF CONSTRUCTION FOR ALL REQUIREMENT AND SCHEDULE THE REQUIRED WORK FOR A SMOOTH AND TIMELY TRANSFORMATION FROM THE EXISTING SERVICE TO THE NEW SERVICE TO ENSURE THAT ALL WORK PROCEED WITH A MINIMUM OF INTERFERENCE AND DELAY. LIMIT THE ELECTRICAL SHUTDOWN TO A MINIMAL SO IT WILL NOT AFFECT THE EXISTING FACILITY'S NORMAL DAILY FUNCTIONS AND OPERATION.	
3. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING UTILITIES AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER/DISTRICT'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWN, SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER/DISTRICT'S REPRESENTATIVE.	
4. ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER/DISTRICT'S REPRESENTATIVE ARE DEEM SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER/DISTRICT. ALL ELECTRICAL MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR ACCORDINGLY.	
5. WHERE REMOVAL OF AN EXISTING SYSTEMS DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER/DISTRICT'S REPRESENTATIVE.	
6. WHERE EXISTING CONCEALED CONDUITS, WHETHER SHOWN OR NOT, OR SPECIFIED TO BE REUSED, WHICH BECAME EXPOSED DUE TO CONSTRUCTION CHANGES, IT SHALL BE REROUTED TO THE NEAREST AVAILABLE REUSED OUTLET.	
7. ALL EXISTING EXPOSED CONDUITS AND/OR WIRING THAT ARE DETERMINED BY THE DISTRICT AND ARCHITECT TO BE MAINTAINED FOR EXISTING SYSTEM FUNCTION AND CONTINUITY, WHETHER SHOWN ON PLAN OR NOT, ARE TO BE REROUTED, CONCEALED IN WALL AND/OR CEILING FOR A CLEAN FINISHED SURFACE WITH NO EXPOSED CONDUITS AND/OR WIRING WITHIN THE REMODELED AREA.	
8. REMOVE ALL EXISTING EXPOSED CONDUITS, WIRING, ELECTRICAL OUTLETS, DEVICES AND EQUIPMENT THAT ARE DETERMINED BY THE DISTRICT AND ARCHITECT TO BE NON FUNCTIONAL, AND/OR NOT BEING USED FROM WITHIN THE REMODELED ARE FOR A CLEAN FINISHED SURFACE.	
9. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INsofar AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO: A. REMOVE ALL WIRE AND CABLE B. REMOVE ALL DEVICES AND EQUIPMENT C. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE D. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.	
10. WHEREVER EXISTING ELECTRICAL DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER/DISTRICT'S REPRESENTATIVE.	
11. WHERE SHOWN ON PLAN FOR REMOVAL OF EXISTING CONDUITS, REMOVE ALL PORTIONS OF CONDUITS WHERE IT IS ACCESSIBLE AND ABANDON PORTIONS OF CONDUITS WHERE IT IS INACCESSIBLE. CUT AND/OR FINISHED WALLS AND CEILINGS.	
12. CONTRACTOR SHALL UPDATE WITH NEW TYPED WRITTEN PANEL DIRECTORIES TO EXISTING PANELS INVOLVED IN THIS RENOVATION WORK THAT SHALL REFLECT ALL CHANGES TO THE CIRCUIT DESIGNATIONS.	
13. PROVIDE AND INSTALL PROTECTIVE COVERING OVER EXISTING EQUIPMENT IN AREA WHEN INSTALLING ANY NEW WORK.	
14. COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.	
15. REFER TO MECHANICAL AND PLUMBING DRAWING FOR HEATERS, EXHAUST FANS, WATER HEATERS, PUMPS, AND ETC., WHICH REQUIRE TO BE DISCONNECTED BY THE ELECTRICAL CONTRACTOR FOR REMOVAL OR ABANDONMENT BY THE MECHANICAL, AND/OR PLUMBING CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SEQUENCE FOR WORK WITH THE MECHANICAL AND/OR PLUMBING FOR REMOVAL OF ALL APPLICABLE STARTERS, DISCONNECT SWITCHES AND ASSOCIATED CONDUIT AND WIRING.	
16. ALL LIGHT FIXTURES INDICATED AS RELOCATED SHALL BE CLEANED AND RE-LAMPED PRIOR TO THE RE-INSTALLATION.	

ELECTRICAL SHEET INDEX	
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E1.2	SITE PHOTO/METRIC PLAN
E2.1	BUILDING F LIGHTING PLAN
E2.2	BUILDING F ELECTRICAL FLOOR PLAN
E2.3	BUILDING F LOW VOLTAGE SYSTEMS PLAN
E2.4	BUILDING F ELECTRICAL ROOF PLAN
E3.1	BUILDING G LIGHTING PLAN
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E7.2	ELECTRICAL DETAILS
E7.3	LOW VOLTAGE SYSTEMS DIAGRAMS

ELECTRICAL ABBREVIATIONS	
SYMBOL	DESCRIPTION
A/AMP	AMPERES
AC	ALTERNATING CURRENT
AF	ABOVE FINISHED FLOOR
AF	ABOVE FINISHED CEILING
AF	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)
C	CONDUIT
CCT	CIRCUIT
CKT	CIRCUIT
DC	DIRECT CURRENT
(E)	EXISTING TO REMAIN
EC	EMPTY CONDUIT
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE METALLIC CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GN	GROUND
HP	HORSEPOWER
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KVA	KILOVOLT-AMPS
KW	KILOWATTS
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
(N)	NEW
N	NEUTRAL CONDUCTOR (GROUNDED CIRCUIT CONDUCTOR)
N.I.E.S.	NOT IN ELECTRICAL SCOPE OR SPECIFICATIONS
NL	NIGHT LIGHT
PHP	PHASE OR POLE
PNL	PANELBOARD
PVC	POLYVINYL CHLORIDE CONDUIT (SCHEDULE 40)
RELOC	RELOCATED/RELOCATED
RECP	RECEPTACLE
RSCS	RIGID GALVANIZED STEEL CONDUIT
U	UNSWITCHED
UNO	UNLESS NOTED OTHERWISE
V	VOLTAGE OR VOLTS
W	WATTS
WP	WEATHERPROOF
WPU	WEATHERPROOF WHILE IN USE
(X)	REMOVE
XFMR	TRANSFORMER

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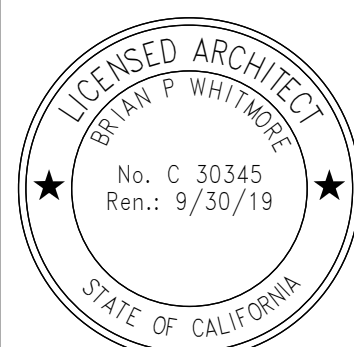


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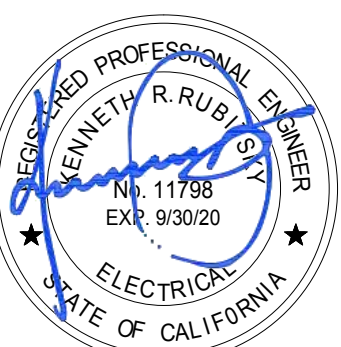
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REVISION HISTORY	GENERAL NOTES	
	NO.	REMARKS

DRAWING STATUS

☒ DSA PLAN CHECK

☐ DSA BACK CHECK

☐ BIDDING

☐ CONSTRUCTION

DATE

05/20/2019

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

ELECTRICAL NOTES,  
ABBREVIATIONS, AND  
SHEET INDEX

Date

05/20/2019

Scale

1/4" = 1'-0"

Drawn

Author

Project Number

19003

Drawing Number

E0.1



ELECTRICAL SYMBOL LEGEND			
ALL SYMBOLS SHOWN IN THIS LEGEND ARE NOT NECESSARY USED ON PLANS IF NOT REQUIRED			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	<b>LIGHTING</b> FLUORESCENT / LED LUMINAIRE - T-BAR LAY-IN FLUORESCENT / LED LUMINAIRE - RECESSED IN GYPBOARD FLUORESCENT / LED LUMINAIRE - SURFACE FLUORESCENT / LED LUMINAIRE - SUSPENDED FLUORESCENT / LED DIRECT/INDIRECT LUMINAIRE - T-BAR LAY-IN FLUORESCENT / LED DIRECT/INDIRECT LUMINAIRE - RECESSED IN GYPBOARD FLUORESCENT / LED STRIP LIGHT - SURFACE OR SUSPENDED DOWNLIGHT LUMINAIRE - RECESSED WALL/WASH LUMINAIRE - RECESSED LUMINAIRE - SURFACE LUMINAIRE - WALL LUMINAIRE - PENDANT TRACK LIGHT - SUSPENDED OR SURFACE MOUNTED CONTINUOUS LINEAR LED TAPE OR LED COVE LIGHT  HATCHED LUMINAIRE WITH 'EM' ABBREVIATION INDICATES AN EMERGENCY LUMINAIRE WITH EMERGENCY POWER CONNECTION (UNSWITCHED).  SINGLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS. (CEILING OR WALL) DOUBLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS. (CEILING OR WALL) COMBINATION EMERGENCY EXIT SIGN WITH DUAL HEAD LIGHTS WITH EMERGENCY BATTERY BACK-UP. BATTERY POWERED EMERGENCY EGRESS LUMINAIRE - SURFACE MOUNTED SPOT/FLOOD LUMINAIRE - CEILING SPOT/FLOOD LUMINAIRE - ABOVE GROUND EXTERIOR POLE FIXTURE - SINGLE HEAD EXTERIOR POLE FIXTURE - TWIN HEAD EXTERIOR PATHWAY POLE FIXTURE BOLLARD FIXTURE STEP LUMINAIRE  <b>LIGHTING CONTROLS</b> SINGLE POLE TOGGLE SWITCH, 20A, 120-277V @ +46" TO TOP OF BOX, UNO. THREE WAY TOGGLE SWITCH, 20A, 120-277V @ +46" TO TOP OF BOX, UNO. SUBSCRIPTS "a b c" DESIGNATE THE QUANTITY OF SWITCHES AT EACH LOCATION (TYPICAL FOR ALL SWITCH TYPES). THERMAL OVERLOAD SWITCH MOTOR RATED SWITCH SINGLE POLE KEYED TOGGLE SWITCH 20A, 120-277V @ +46" TO TOP OF BOX, UNO. PUSH BUTTON WALL MOUNTED ROCKER SWITCH WALL MOUNTED DIMMER SWITCH WALL MOUNTED DIGITAL DIMMER SWITCH WALL SWITCH OCCUPANCY SENSOR PASSIVE INFRARED WALL SWITCH OCCUPANCY SENSOR DUAL TECH WALL OCCUPANCY SENSOR DIGITAL WALL CONTROL (OVERRIDE SWITCH), RUN CABLING BACK TO LIGHTING CONTROL PANEL. CORNER MOUNT MOTION SENSOR, DUAL TECHNOLOGY, PASSIVE INFRARED, OR ULTRASONIC CEILING MOTION SENSOR, DUAL TECHNOLOGY, PASSIVE INFRARED, OR ULTRASONIC PASSIVE INFRARED DIGITAL CORNER SENSOR. DUAL TECH DIGITAL CORNER SENSOR. ULTRASONIC DIGITAL CEILING SENSOR. PHOTO SENSOR SKYLIGHT PHOTOCONTROL SENSOR OPEN LOOP PHOTOCONTROL SENSOR CLOSED LOOP PHOTOCONTROL SENSOR CEILING EXHAUST FAN  <b>POWER</b> MAIN SWITCHBOARD OR DISTRIBUTION PANEL, AS NOTED RECESSED MOUNTED LIGHTING OR DISTRIBUTION PANEL SURFACE MOUNTED LIGHTING OR DISTRIBUTION PANEL RECESSED TERMINAL CABINET w/ 3/4" C PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO.  SURFACE MOUNTED TERMINAL CABINET w/ 3/4" C PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO. DISTRIBUTION TRANSFORMER, MOUNTING AND SIZE AS NOTED  NON-FUSED DISCONNECT SWITCH ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH FUSED DISCONNECT SWITCH, SIZE DISCONNECT AND FUSES PER UNIT LABEL NON-FUSED / FUSED DISCONNECT; SEE DISCONNECT SWITCH SCHEDULE MOTOR STARTER/CONTROLLER COMBINATION CIRCUIT BREAKER DISCONNECT/MOTOR STARTER. COMBINATION FUSIBLE DISCONNECT/MOTOR CONTROLLER; PROVIDE FUSES PER MANUFACTURER'S REQUIREMENTS. N.F. INDICATES NON-FUSED. MOTOR POWER CONNECTION DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP, +44" TO TOP FOR FORWARD REACH, AND +46" TO TOP FOR SIDE REACH, PER CBC 11B-308. ISOLATED GROUND DUPLEX RECEPTACLE 20A, 120V @ +16" TO BOTTOM OF BOX, UNO. DEDICATED DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. GFCI DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. GFCI DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH, +44" TO TOP FOR FORWARD REACH, AND +46" TO TOP FOR SIDE REACH, PER CBC 11B-308. ISOLATED GROUND GFCI DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. DEDICATED GFCI DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO. ISOLATED GROUND FOURPLEX RECEPTACLE 20A, 120V @ +16" TO BOTTOM OF BOX, UNO. DEDICATED FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.		

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ARCHITECT	ENGINEER
<div>LICENSED ARCHITECT Burton P. Whitmore No. C 30345 Ren.: 9/30/19 STATE OF CALIFORNIA</div>	<div>LICENSED PROFESSIONAL ENGINEER Kenneth R. Ruben No. E 11798 Exp. 9/30/20 ELECTRICAL STATE OF CALIFORNIA</div>
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REVISION HISTORY	NO.	REMARKS	DATE

DRAWING STATUS	DATE
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<input type="radio"/> CONSTRUCTION	

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

ELECTRICAL SYMBOL  
LEGEND

Date  
05/20/2019

Scale  
1/4" = 1'-0"

Drawn  
Author

Project Number  
19003

Drawing Number  
E0.2

Checked  
Checker





- KEY NOTES**
- 1 (E) OUTDOOR MAIN SERVICE SWITCHBOARD. SEE ONE LINE DIAGRAM FOR MORE INFORMATION.
  - 2 (E) UNDERGROUND CONDUITS. SEE ONE LINE DIAGRAM FOR THE SIZE AND QUANTITIES. CLEAN THE EXISTING CONDUITS BEFORE PULLING NEW CABLES.
  - 3 (N) UNDERGROUND CONDUITS AND CABLES. SEE ONE LINE DIAGRAM FOR THE SIZE AND QUANTITIES.
  - 4 INTERCEPT (E) CONDUIT(S) AND EXTEND TO THE ELECTRICAL PANEL LOCATION, INSIDE THE BUILDING, AS SHOWN.
  - 5 INSTALL (2) 3\"/>

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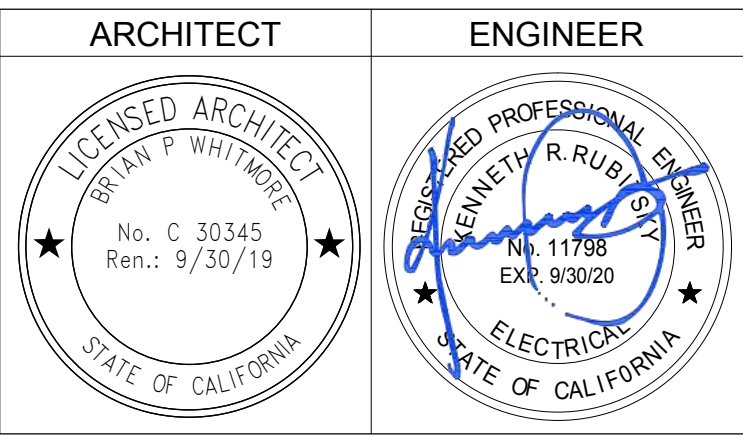
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	<input type="radio"/> CONSTRUCTION	

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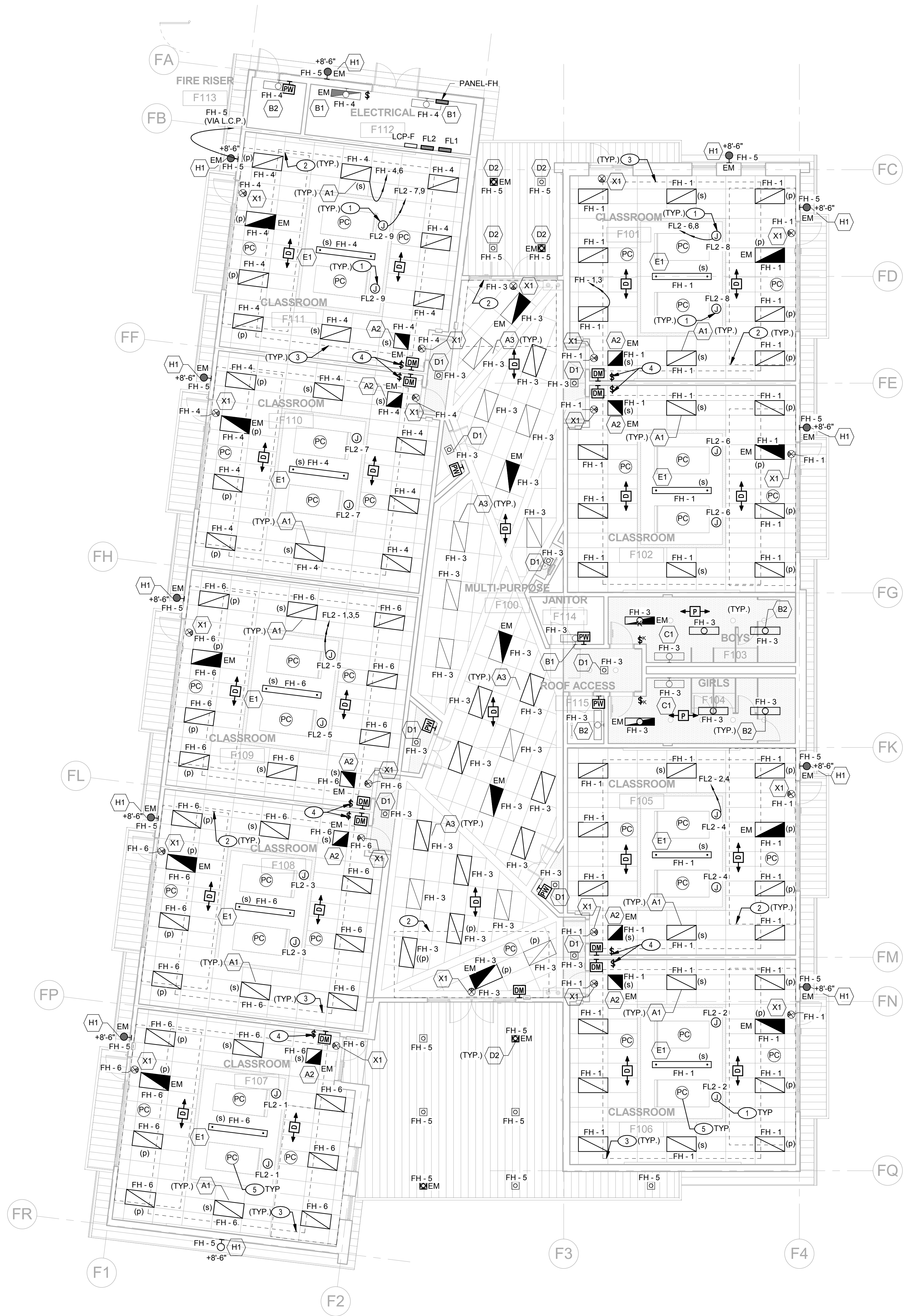
ELECTRICAL SITE PLAN

Date 05/20/2019	Project Number 19003
Scale 1" = 20'-0"	Drawing Number <b>E1.1</b>
Drawn Author	Checked Checker







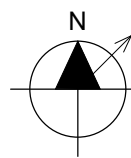


REF: 3 / FA3.1

Bldg F Lighting Plan

1/8" = 1'-0"

1



#

### KEY NOTES

1. PROVIDE 120V POWER AND CONTROLS CONNECTIONS TO SKY LIGHT LOUVER. PROVIDE ALL REQUIRED COMPONENTS, ACCESSORIES AND INTERCONNECTION WIRING FOR A COMPLETE AND OPERATIONAL SYSTEM. TO BE CONTROLLED VIA PHOTOCELL AND MANUAL CONTROLS.
2. PRIMARY SIDELIT DAYLIT ZONE. LIGHT FIXTURES WITH "(P)" IN SWITCHING DESIGNATION SHALL BE CONTROLLED BY PRIMARY SIDELIT DAYLIT ZONE PHOTOCONTROL SENSOR, INDEPENDENTLY FROM OTHER FIXTURES.
3. PRIMARY SKYLIT DAYLIT ZONE. LIGHT FIXTURES WITH "(S)" IN SWITCHING DESIGNATION SHALL BE CONTROLLED BY PRIMARY SKYLIT DAYLIT ZONE PHOTO CONTROL SENSOR, INDEPENDENTLY FROM OTHER FIXTURES.
4. MANUAL CONTROL SWITCH FOR MOTORIZED SKYLIGHT. PROVIDE 3/4" CONDUIT TO THE SKYLIGHT FOR INTERCONNECTION. COORDINATE WITH SKYLIGHT INSTALLER FOR EXACT LOCATION AND REQUIREMENT.
5. PHOTOCELL SENSOR FOR MOTORIZED SKYLIGHT CONTROL.

### GENERAL NOTES

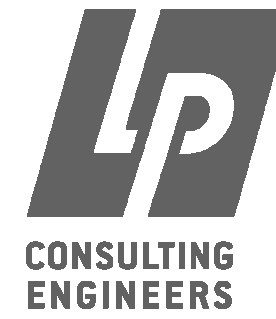
1. SEE LIGHTING FIXTURE SCHEDULE FOR LIGHTING FIXTURES INFORMATION.
2. SEE LIGHTING CONTROL SEQUENCE OF OPERATION FOR LIGHTING CONTROL REQUIREMENTS. PROVIDE ALL REQUIRED COMPONENTS, ACCESSORIES AND INTERCONNECTION FOR A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR SHALL PROVIDE SHOP DRAWING WITH ALL CONTROL COMPONENTS, LOCATIONS AND CONNECTION DIAGRAMS.

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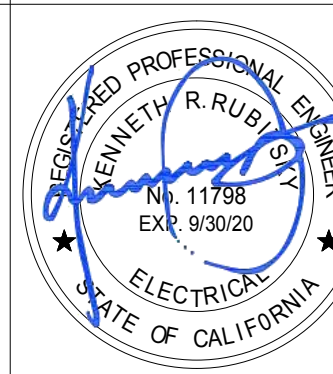
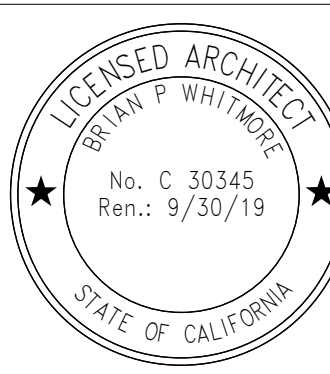
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#### ARCHITECT

#### ENGINEER



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DRAWING STATUS	DATE
<input checked="" type="radio"/> DSA PLAN CHECK	05/20/2019
<input type="radio"/> DSA BACK CHECK	
<input type="radio"/> BIDDING	
<input type="radio"/> CONSTRUCTION	

#### KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

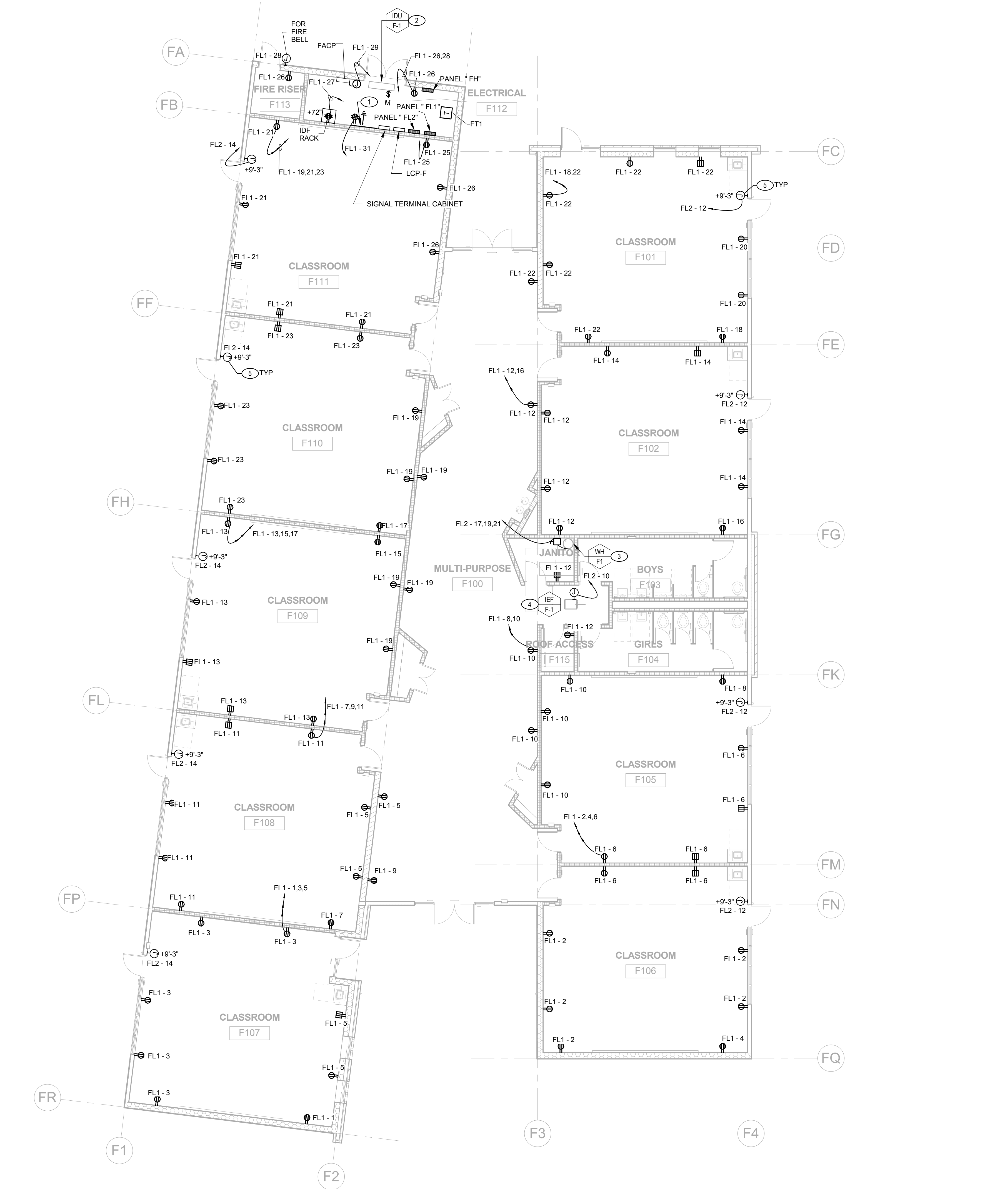
#### DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

#### BUILDING F LIGHTING PLAN

Date	05/20/2019	Project Number	19003
Scale	As indicated	Drawing Number	E2.1
Drawn	Checked	Author	Checker



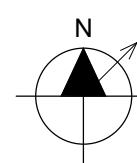


REF: 3 / FA2.1

BUILDING F ELECTRICAL FLOOR PLAN

1/8" = 1'-0"

1



#

KEY NOTES

- 1 (N) TELEPHONE/SIGNAL BACKBOARD.
- 2 IDU; 208V 1PHASE, 93W POWERED FROM OUTDOOR UNIT, PROVIDE 20A/2P HEAVY DUTY MOTOR RATED SWITCH AS DISCONNECT MEAN.
- 3 ELECTRICAL WATER HEATER; 208V, 1 PHASE, 4000W. PROVIDE 30A/3PH DISCONNECT SWITCH AND 3/4" C.-3# 10 CU +1 # 10 CU GND.
- 4 IEF F1; 20V, 1 PHASE, 0.25HP. PROVIDE POWER CONNECTION.
- 5 DOOR ACCESS POWER SUPPLY; PROVIDE 120V POWER CONNECTION. COORDINATE EXACT LOCATION WITH DOOR ACCESS CONTROL INSTALLER.

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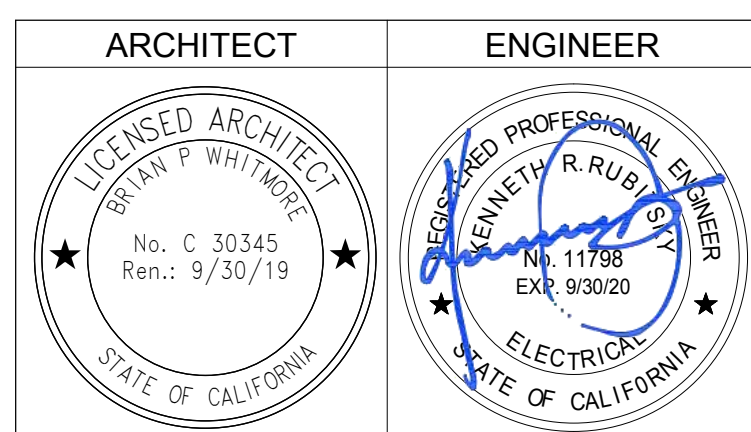
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<input type="radio"/> CONSTRUCTION		

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING F ELECTRICAL  
FLOOR PLAN

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

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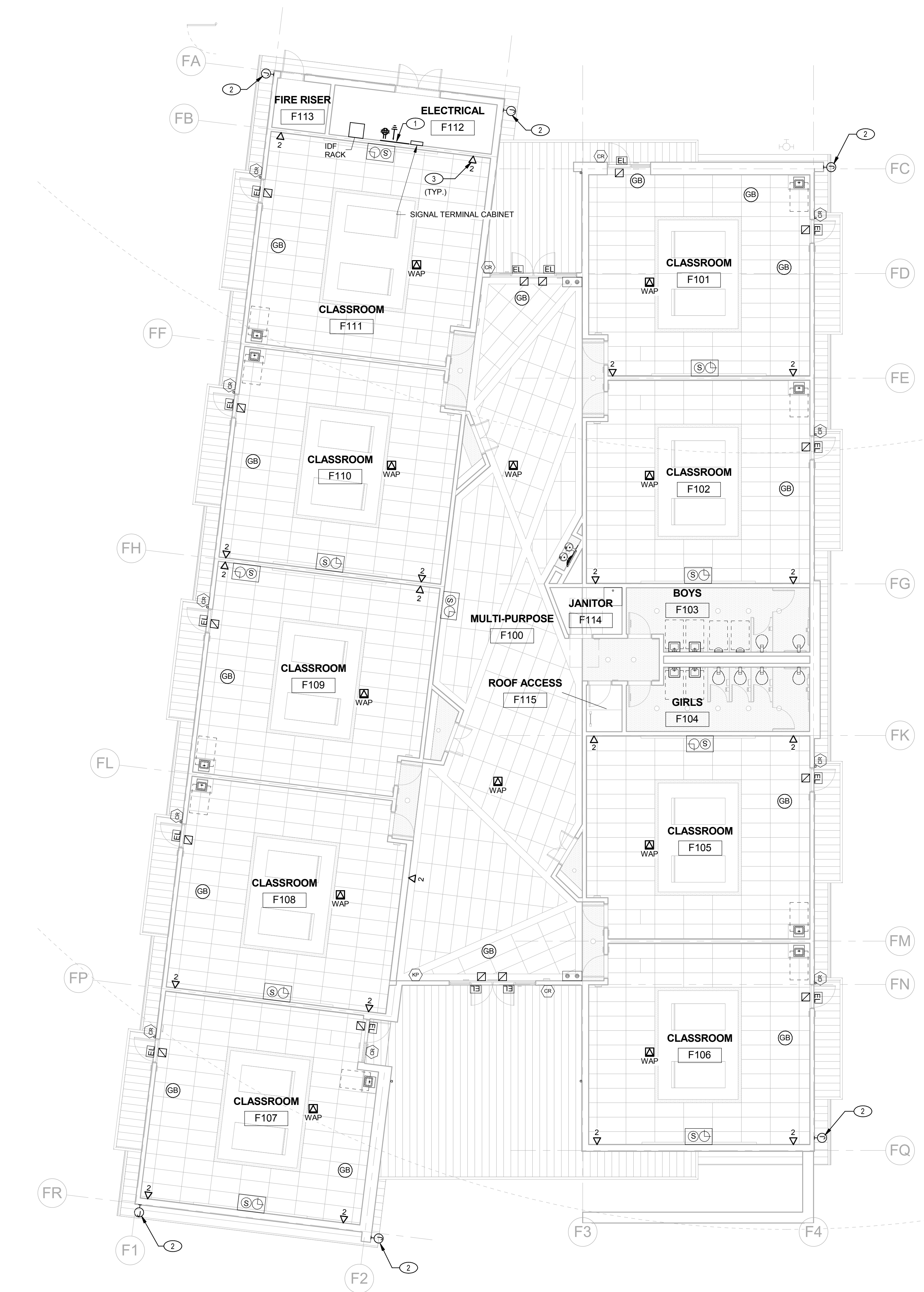
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19003

Drawing Number

E2.2



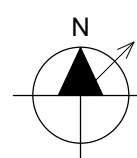


REF: 3 / FA3.1

BUILDING F LOW VOLTAGE PLAN

1/8" = 1'-0"

1



#

KEY NOTES

- (N) TELEPHONE/SIGNAL BACKBOARD.
- PROVIDE WEATHERPROOF JUNCTION BOX AT 11' A.F.G. (UNO) FOR DISTRICT PROVIDED SECURITY CAMERA. ELECTRICAL CONTRACTOR SHALL INSTALL THE CAMERA AND WIRING. COORDINATE WITH DISTRICT FOR EXACT LOCATION, AND INSTALLATION HEIGHT PRIOR TO ANY WORK.
- DATA AND DATA/TEL. OUTLETS, TYPICAL. INSTALL (2) CAT-6 WIRE TO THE DATA RACK.

GENERAL NOTES

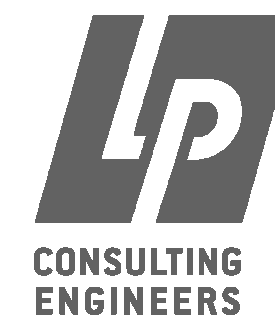
- SEE LOW VOLTAGE SYSTEMS DIAGRAMS FOR MORE INFORMATION.

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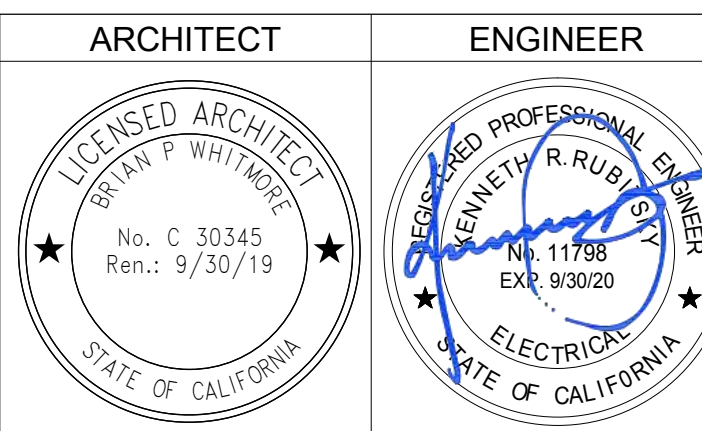
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KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING F LOW  
VOLTAGE SYSTEMS PLAN

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

Author

Checked

Checker

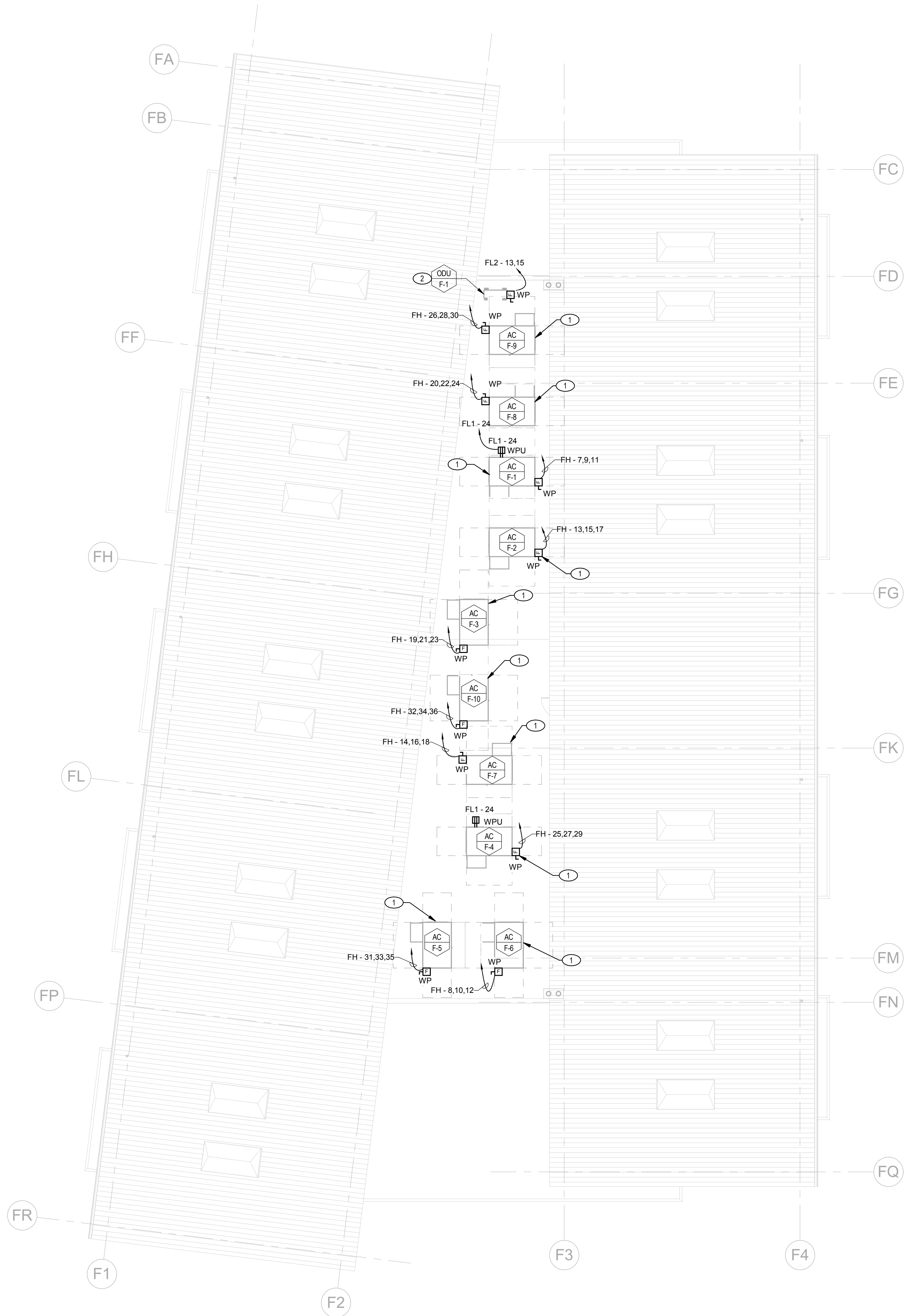
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19003

Drawing Number

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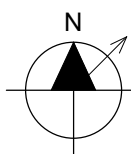




REF: 3 / FA2.1

BUILDING F ELECTRICAL ROOF PLAN

1/8" = 1'-0" 1



- #
- KEY NOTES**
- 1 AC UNIT, 460V/ 3PH, 10.65A FLA, 13A MCA, 15A MOCP. PROVIDE 15AF/3PH/30A WEATHERPROOF DISCONNECT SWITCH, W/ 3/4" C.-3 # 12 CU + 1 # 12 CU GND.
  - 2 ODU, 208V/ 1PH, 19A MCA, 25A MOCP. PROVIDE 25AF/1PH/30A WEATHERPROOF DISCONNECT SWITCH, W/ 3/4" C.-3 # 10 CU + 1 # 10 CU GND.

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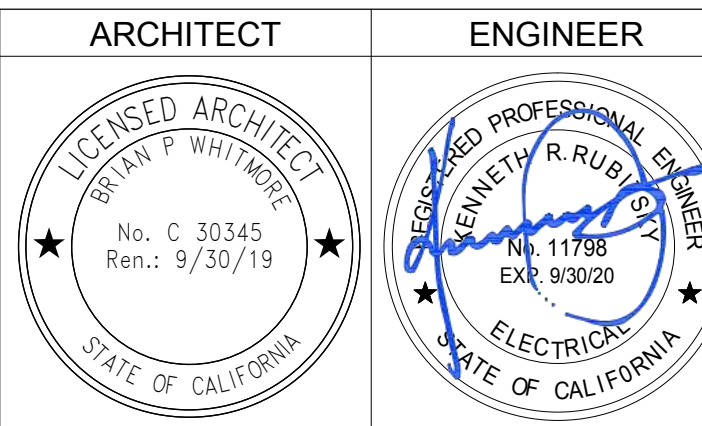
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KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING F ELECTRICAL  
ROOF PLAN

Date  
05/20/2019

Scale  
1/8" = 1'-0"

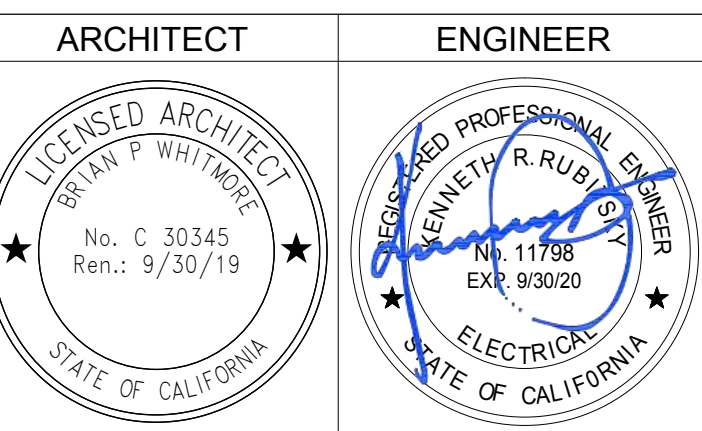
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Author

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Checker

Project Number  
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Drawing Number  
E2.4





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NO.	REMARKS	DATE

DRAWING STATUS	DATE
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○ DSA BACK CHECK	
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING G LIGHTING  
PLAN

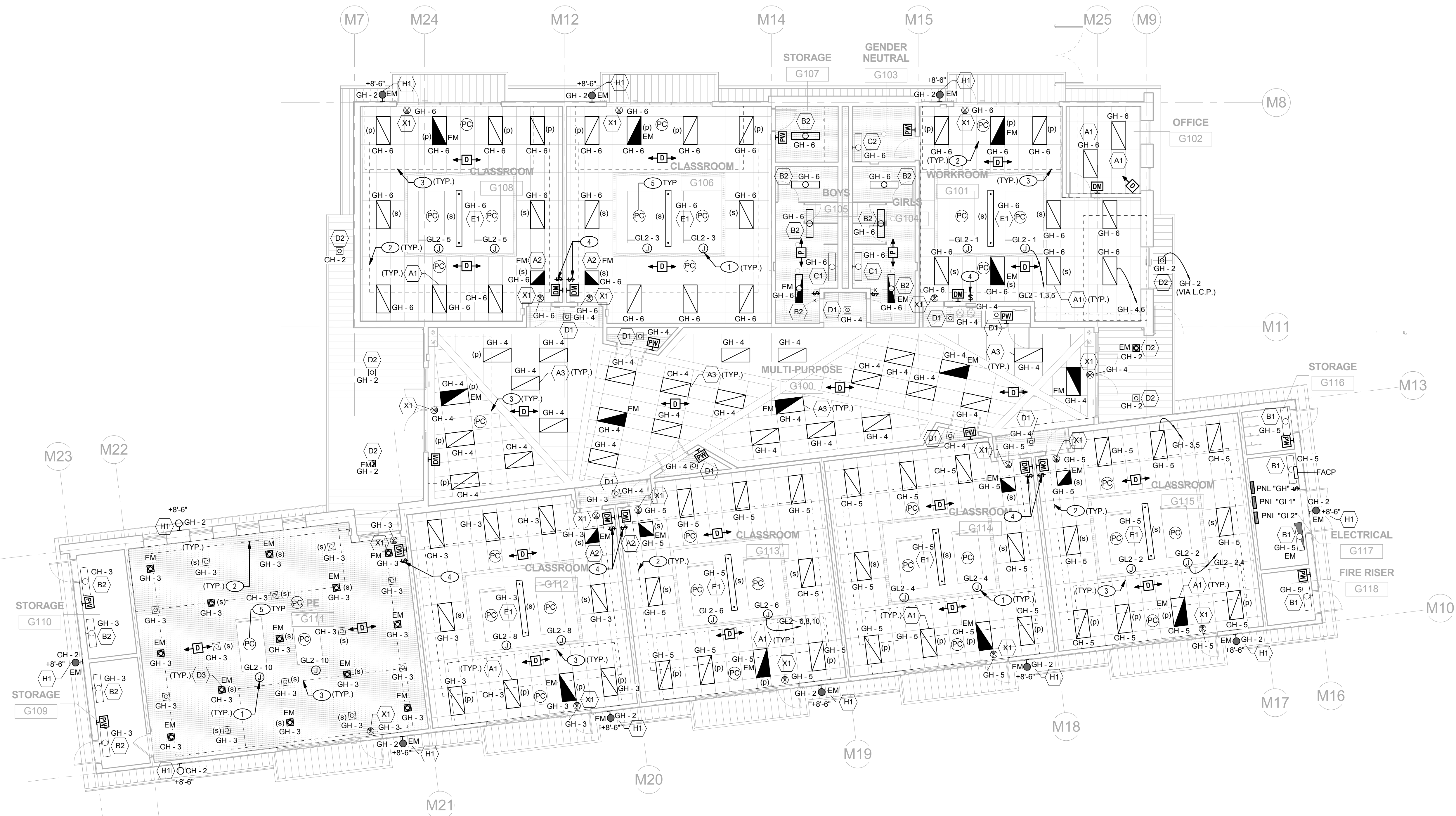
Date 05/20/2019	Project Number 19003
Scale As indicated	Drawing Number E3.1
Drawn Author	Checked Checker

KEY NOTES

- PROVIDE 120V POWER AND CONTROLS CONNECTIONS TO SKY LIGHT LOUVER. PROVIDE ALL REQUIRED COMPONENTS, ACCESSORIES AND INTERCONNECTION WIRING FOR A COMPLETE AND OPERATIONAL SYSTEM. TO BE CONTROLLED VIA PHOTOCELL AND MANUAL CONTROLS.
- PRIMARY SKYLIT DAYLIT ZONE. LIGHT FIXTURES WITH "S" IN SWITCHING DESIGNATION SHALL BE CONTROLLED BY PRIMARY SKYLIT DAYLIT ZONE PHOTO CONTROL SENSOR, INDEPENDENTLY FROM OTHER FIXTURES.
- PRIMARY SIDELIT DAYLIT ZONE. LIGHT FIXTURES WITH "P" IN SWITCHING DESIGNATION SHALL BE CONTROLLED BY PRIMARY SIDELIT DAYLIT ZONE PHOTOCONTROL SENSOR, INDEPENDENTLY FROM OTHER FIXTURES.
- MANUAL CONTROL SWITCH FOR MOTORIZED SKYLIGHT. PROVIDE 3/4" CONDUIT TO THE SKYLIGHT FOR INTERCONNECTION. COORDINATE WITH SKYLIGHT. INSTALLER FOR EXACT LOCATION AND REQUIREMENT.
- PHOTOCELL SENSOR FOR MOTORIZED SKYLIGHT CONTROL.

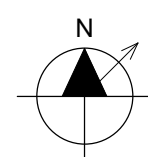
GENERAL NOTES

- SEE LIGHTING FIXTURE SCHEDULE FOR LIGHTING FIXTURES INFORMATION.
- SEE LIGHTING CONTROL SEQUENCE OF OPERATION FOR LIGHTING CONTROL REQUIREMENTS. PROVIDE ALL REQUIRED COMPONENTS, ACCESSORIES AND INTERCONNECTION FOR A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR SHALL PROVIDE SHOP DRAWING WITH ALL CONTROL COMPONENTS, LOCATIONS AND CONNECTION DIAGRAMS.



REF: 3 / FA3.1

Bldg G Lighting Plan 1/8" = 1'-0" 1

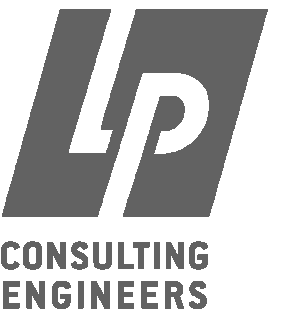




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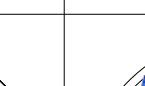
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ARCHITECT	ENGINEER
	

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	<input type="radio"/> BIDDING	
	<input type="radio"/> CONSTRUCTION	

## KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

## DESIGN DEVELOPMENT

**WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691**

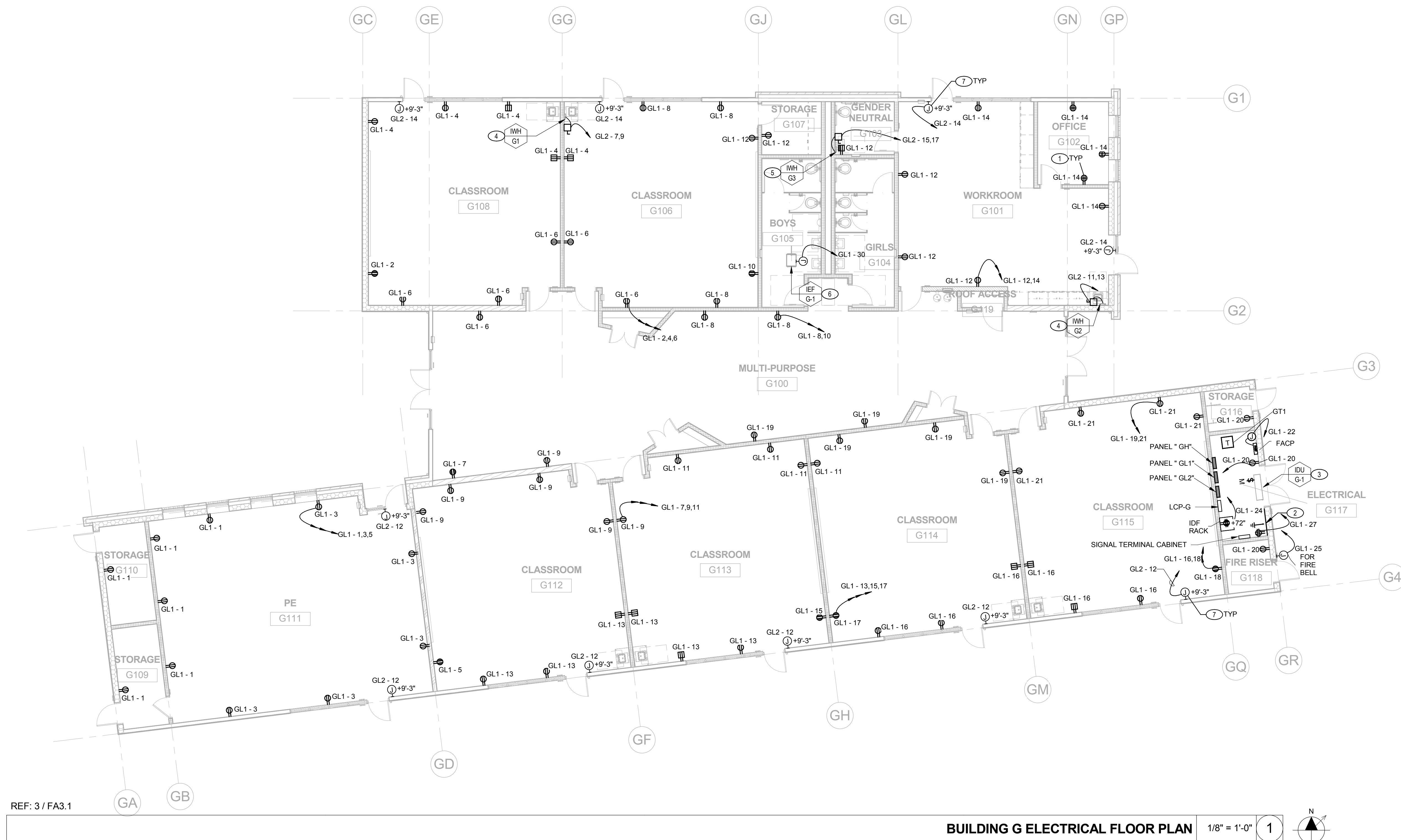
## BUILDING G ELECTRICAL FLOOR PLAN

Date	Project Number
05/20/2019	19003

Scale  
1/8" = 1'-0"

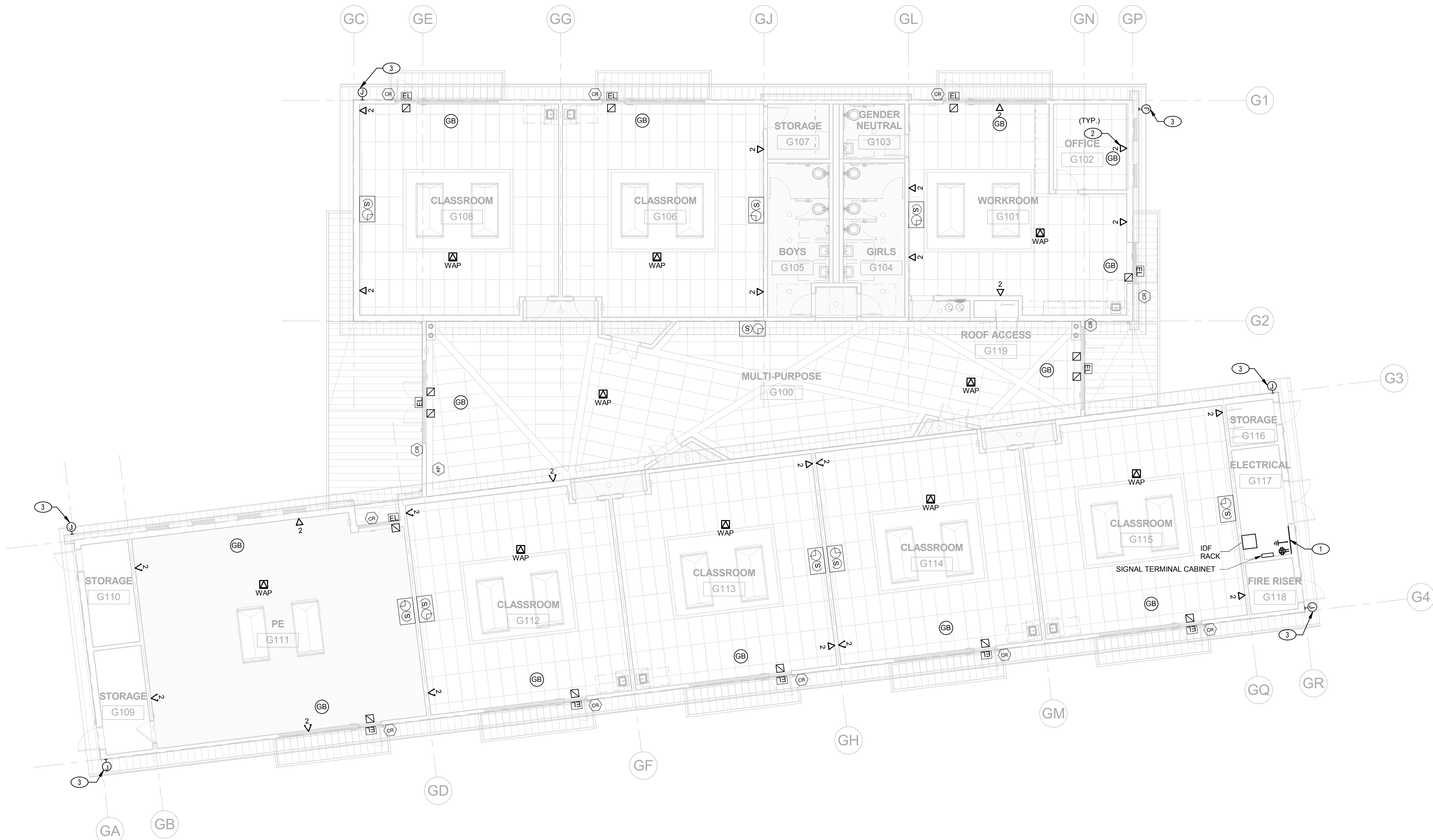
Drawing Number  
**500**

Drawn	Checked	E3.2
Author	Checker	



- ## KEY NOTES
- 1 CONTROLLED/UNCONTROLLED RECEPTACLES, BASIS OF DESIGN FOR CONTROLLED RECEPTACLES IS LEVITON CR200-2PW. CONTROLLED RECEPTACLE SHALL BE MARKED PROPERLY FOR IDENTIFICATION, PER CEC 406.3(E).
  - 2 (N) TELEPHONE/SIGNAL BACKBOARD.
  - 3 IDU: 208V 1PHASE, 93W POWERED FROM OUTDOOR UNIT. PROVIDE 20A/2P HEAVY DUTY MOTOR RATED SWITCH AS DISCONNECT MEAN.
  - 4 ELECTRICAL WATER HEATER, 208V, 1 PHASE, 8320W. PROVIDE 60A/1PH DISCONNECT SWITCH AND 3/4" C-2 # 8 CU + # 10 CU GND.
  - 5 ELECTRICAL WATER HEATER, 208V, 1 PHASE, 4160W. PROVIDE 30A/1PH DISCONNECT SWITCH AND 3/4" C-2 # 8 CU + # 12 CU GND.
  - 6 IEF 1F, 20V, 1 PHASE, 0.25HP. PROVIDE POWER CONNECTION.
  - 7 DOOR ACCESS POWER SUPPLY; PROVIDE 120V POWER CONNECTION. COORDINATE EXACT LOCATION WITH DOOR ACCESS CONTROL INSTALLER.



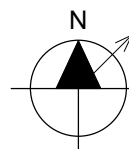


REF: 3 / FA3.1

**BUILDING G LOW VOLTAGE PLAN**

1/8" = 1'-0"

1



#

**KEY NOTES**

- (N) TELEPHONE/SIGNAL BACKBOARD.
- DATA AND DATA/TEL. OUTLETS, TYPICAL. INSTALL (2) CAT-6 WIRE TO THE DATA RACK.
- PROVIDE WEATHERPROOF JUNCTION BOX AT 11' A.F.G. (UNO) FOR DISTRICT PROVIDED SECURITY CAMERA. ELECTRICAL CONTRACTOR SHALL INSTALL THE CAMERA AND WIRING. COORDINATE WITH DISTRICT FOR EXACT LOCATION, AND INSTALLATION HEIGHT PRIOR TO ANY WORK.

**GENERAL NOTES**

- SEE LOW VOLTAGE SYSTEMS DIAGRAMS FOR MORE INFORMATION.

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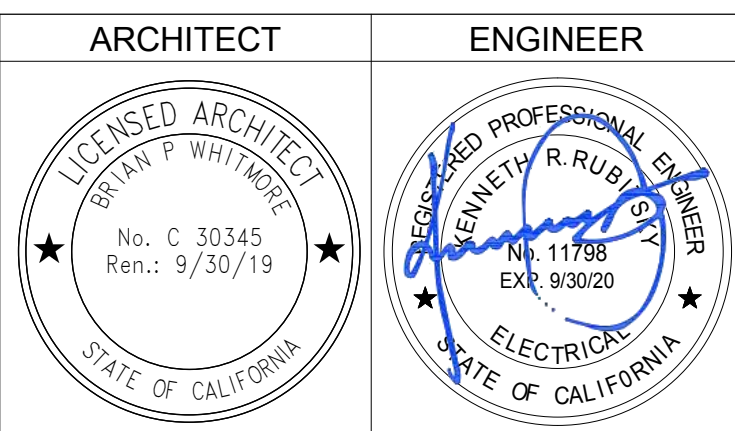
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REVISION HISTORY	NO.		REMARKS	DATE

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**KEY PLAN**

**WASHINGTON UNIFIED  
SCHOOL DISTRICT**  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

**DESIGN DEVELOPMENT**

**WESTMORE OAKS  
SCHOOL**  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

**BUILDING G LOW  
VOLTAGE SYSTEMS PLAN**

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

Author

Project Number

19003

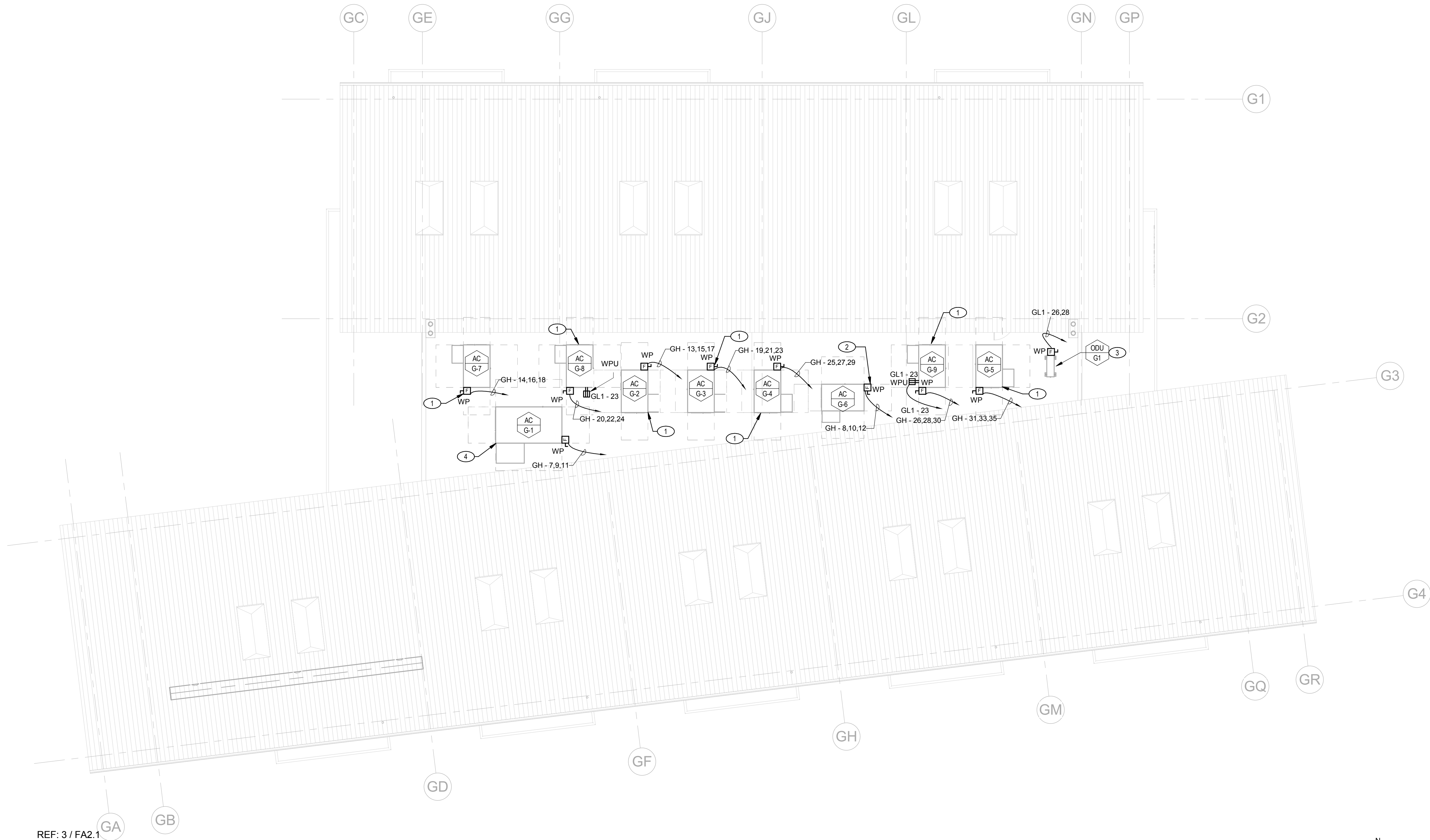
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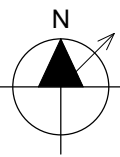


REF: 3 / FA2.1

BUILDING G ELECTRICAL ROOF PLAN

1/8" = 1'-0"

1



8

KEY NOTES

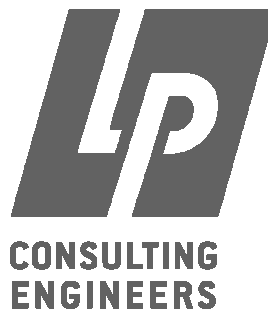
- 1 AC UNIT, 460V/ 3PH, 10.65A FLA, 13A MCA, 15A MOCP. PROVIDE 15AF/3PH/30A WEATHERPROOF DISCONNECT SWITCH, W/ 3/4" C.-3 # 12 CU + 1 # 12 CU GND.
- 2 AC UNIT, 460V/ 3PH, 8.95A FLA, 11A MCA, 15A MOCP. PROVIDE 15AF/3PH/30A WEATHERPROOF DISCONNECT SWITCH, W/ 3/4" C.-3 # 12 CU + 1 # 12 CU GND.
- 3 ODU, 208V/ 1PH, 19A MCA, 25A MOCP. PROVIDE 25AF/1PH/30A WEATHERPROOF DISCONNECT SWITCH, W/ 3/4" C.-3 # 10 CU + 1 # 10 CU GND.
- 4 AC UNIT, 460V/ 3PH, 21.65A FLA, 23A MCA, 25A MOCP. PROVIDE 25AF/3PH/30A WEATHERPROOF DISCONNECT, W/ 3/4" C.-3 # 10 CU + 1 # 10 CU GND.

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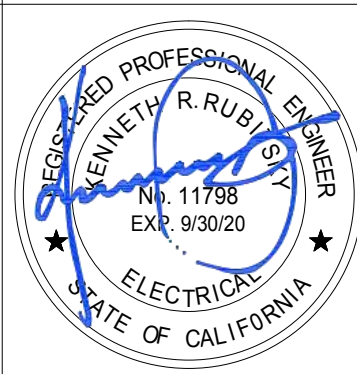
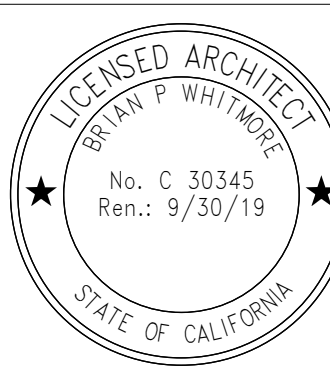
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REVISION HISTORY	NO.	REMARKS	DATE

DRAWING STATUS	DATE	
	<input checked="" type="radio"/> DSA PLAN CHECK	05/20/2019
	<input type="radio"/> DSA BACK CHECK	
	<input type="radio"/> BIDDING	
	<input type="radio"/> CONSTRUCTION	

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING G ELECTRICAL  
ROOF PLAN

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

Author

Project Number

19003

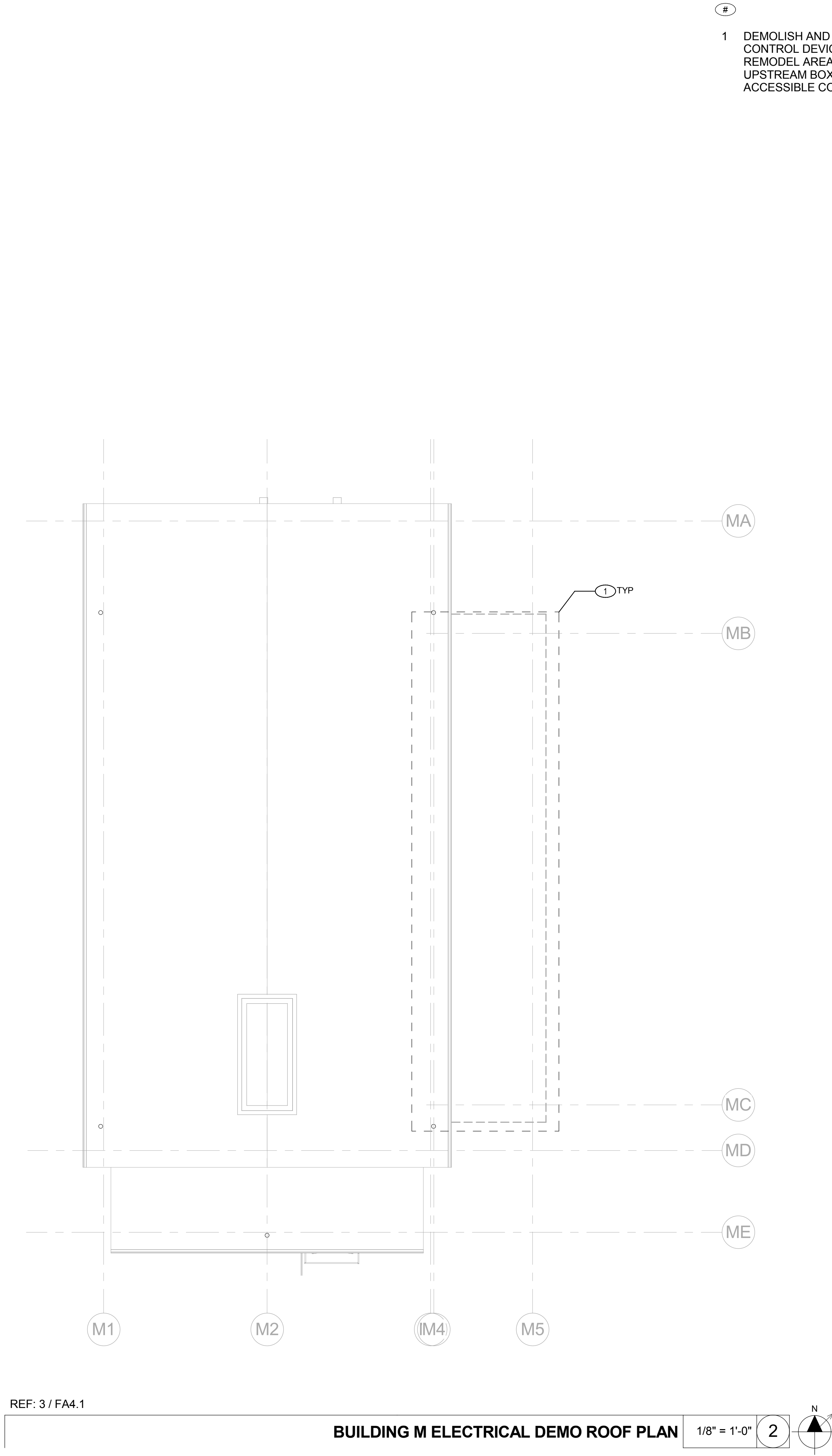
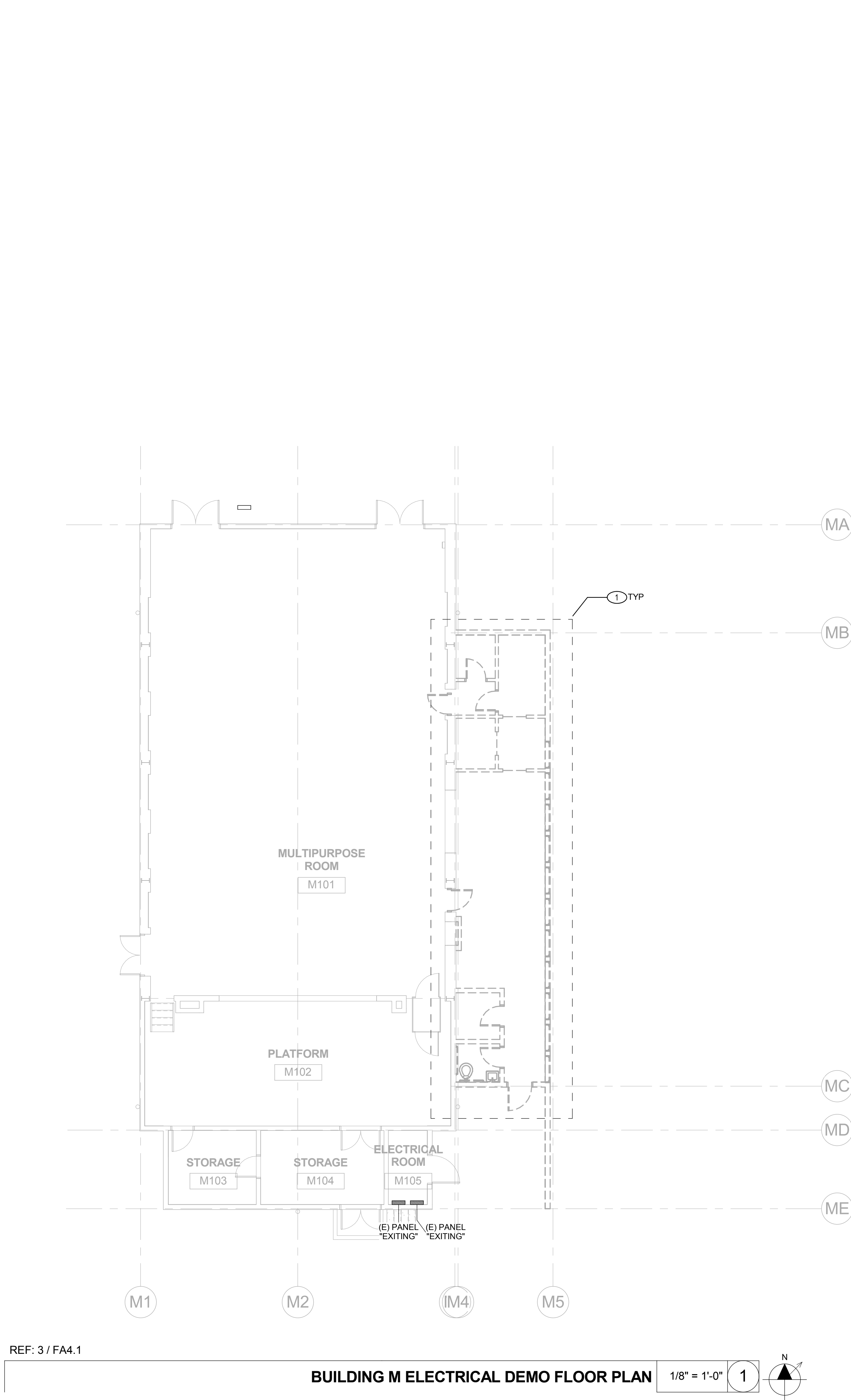
Drawing Number

E3.4

Checked

Checker





- KEY NOTES**
- 1 DEMOLISH AND REMOVE ALL EXISTING FIXTURES, CONTROL DEVICES, AND POWER DEVICES IN THE REMODEL AREA. REMOVE THE WIRES TO THE UPSTREAM BOXES OR PANEL AS APPLICABLE. REMOVE ACCESSIBLE CONDUITS, AS POSSIBLE.

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ARCHITECT	ENGINEER
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NO.	REMARKS	DATE

DRAWING STATUS	DATE
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<input type="radio"/> CONSTRUCTION	

**KEY PLAN**

**WASHINGTON UNIFIED  
SCHOOL DISTRICT**  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

**DESIGN DEVELOPMENT**

**WESTMORE OAKS  
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NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

**BUILDING M ELECTRICAL  
DEMO PLANS**

Date 05/20/2019	Project Number 19003
Scale 1/8" = 1'-0"	Drawing Number <b>E4.1</b>
Drawn Author	Checked Checker

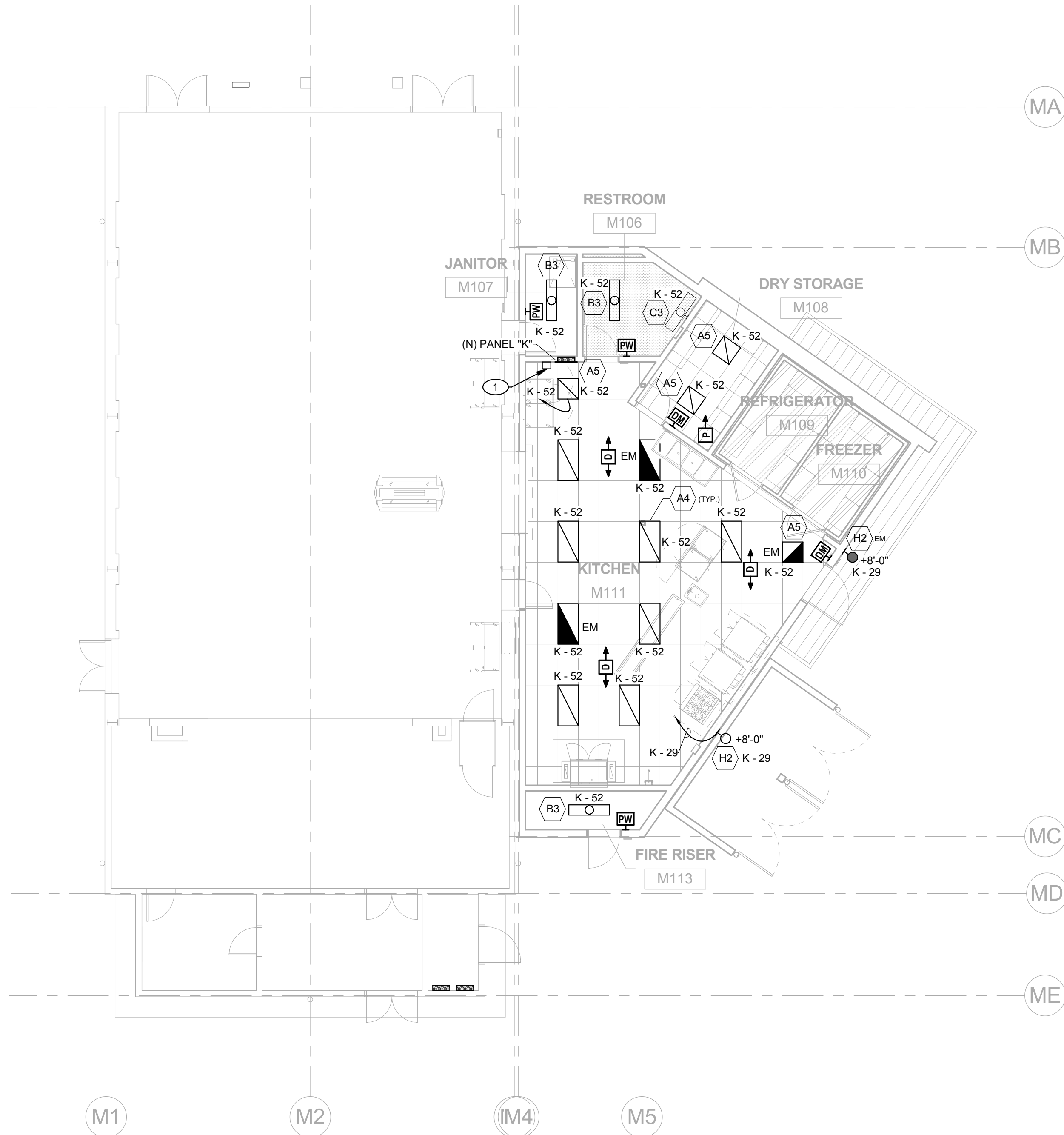
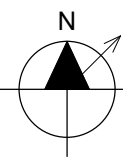


REF: 3 / FA3.1

Bldg M Lighting Plan

1/8" = 1'-0"

1



#

### KEY NOTES

- 365/7 DAY OUTDOOR LIGHTING ASTRONOMIC TIME SWITCH WITH HOLIDAY AND EVENT SCHEDULING. BASIS OF DESIGN IS "INERRATIC ET2815C".

### GENERAL NOTES

- SEE LIGHTING FIXTURE SCHEDULE FOR LIGHTING FIXTURES INFORMATION.
- SEE LIGHTING CONTROL SEQUENCE OF OPERATION FOR LIGHTING CONTROL REQUIREMENTS. PROVIDE ALL REQUIRED COMPONENTS, ACCESSORIES AND INTERCONNECTION FOR A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR SHALL PROVIDE SHOP DRAWING WITH ALL CONTROL COMPONENTS, LOCATIONS AND CONNECTION DIAGRAMS.

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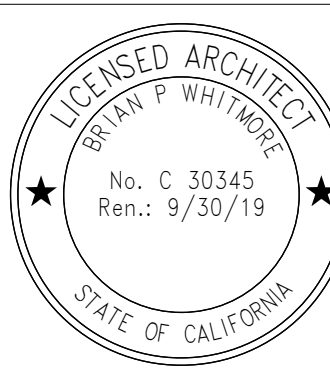
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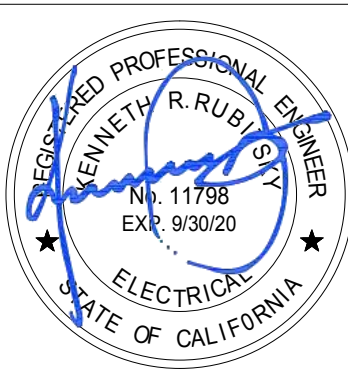
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#### ARCHITECT



#### ENGINEER



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DRAWING STATUS	DATE	
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<input type="radio"/> CONSTRUCTION		

#### KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

#### DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

#### BUILDING M LIGHTING PLAN

Date

05/20/2019

Scale

As indicated

Drawn

Author

Project Number

19003

Scale

As indicated

Drawn

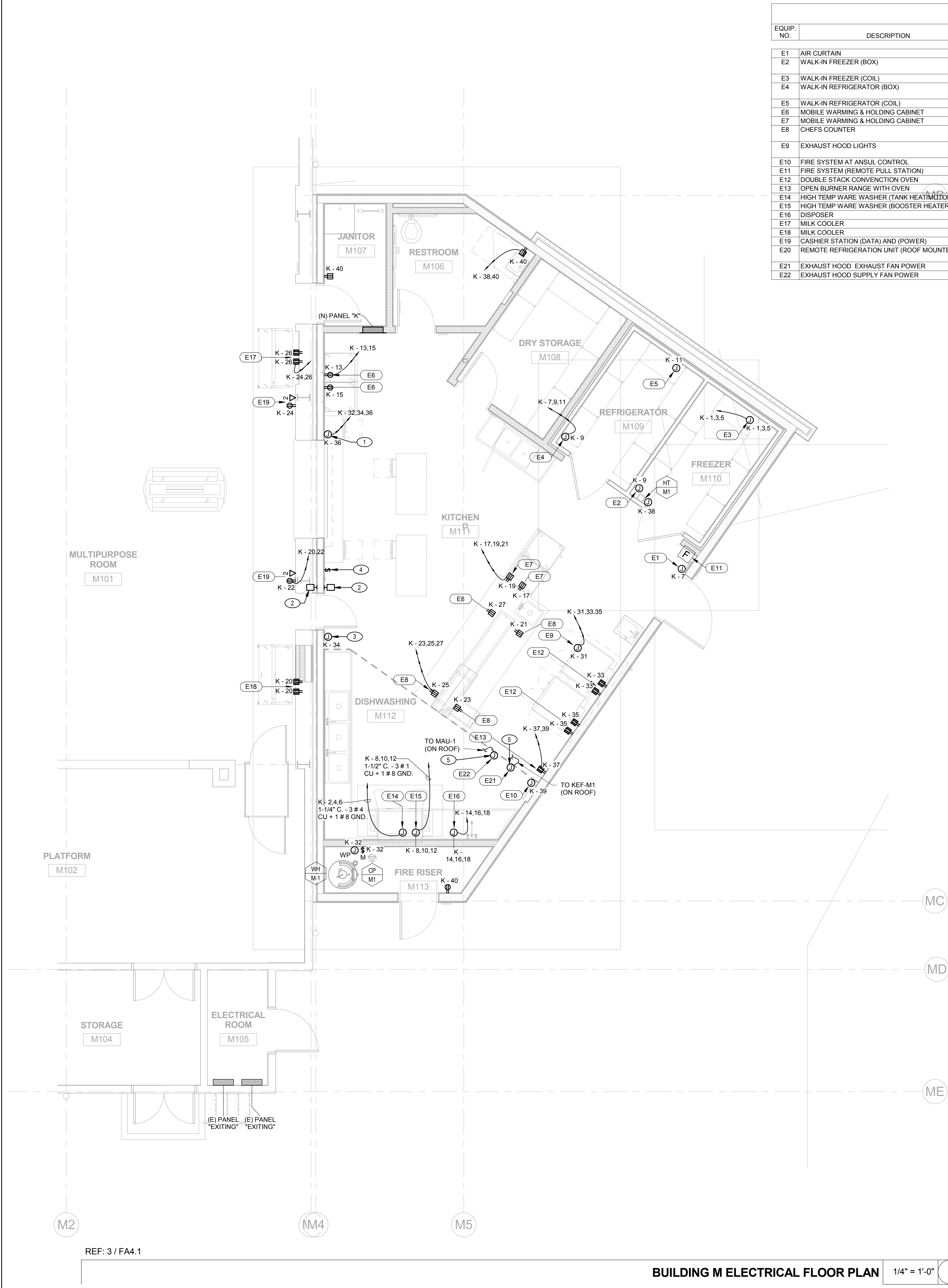
Author

Checked

Checker

E4.2





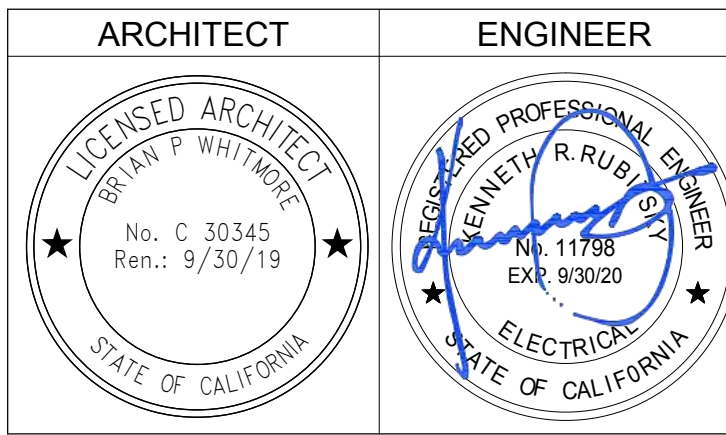
- KEY NOTES**
1. PROVIDE POWER CONNECTION FOR FIRE DOOR. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL INTERCONNECTIONS FIELD WIRING PER MANUFACTURER REQUIREMENTS.
  2. AUTOMATIC DOOR WALL PUSH PAD. PROVIDE ALL REQUIRED INTERCONNECTION WIRING FOR A COMPLETE AND OPERABLE SYSTEM.
  3. PROVIDE POWER CONNECTION FOR AUTOMATIC DOOR.
  4. CONTROL SWITCH FOR FIRE DOOR.
  5. PROVIDE ALL INTERCONNECTION/INTERLOCK BETWEEN HOOD CONTROLS, HOOD EXHAUST AND SUPPLY FAN AS REQUIRED BY FOOD SERVICE AND/OR MECHANICAL DRAWINGS. PROVIDE ALL COMPONENTS AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM.

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NO.	REMARKS	DATE

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● DSA PLAN CHECK  
○ DSA BACK CHECK  
○ BIDDING  
○ CONSTRUCTION

DATE: 05/20/2019

**KEY PLAN**

**WASHINGTON UNIFIED  
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WEST SACRAMENTO, CA 95691

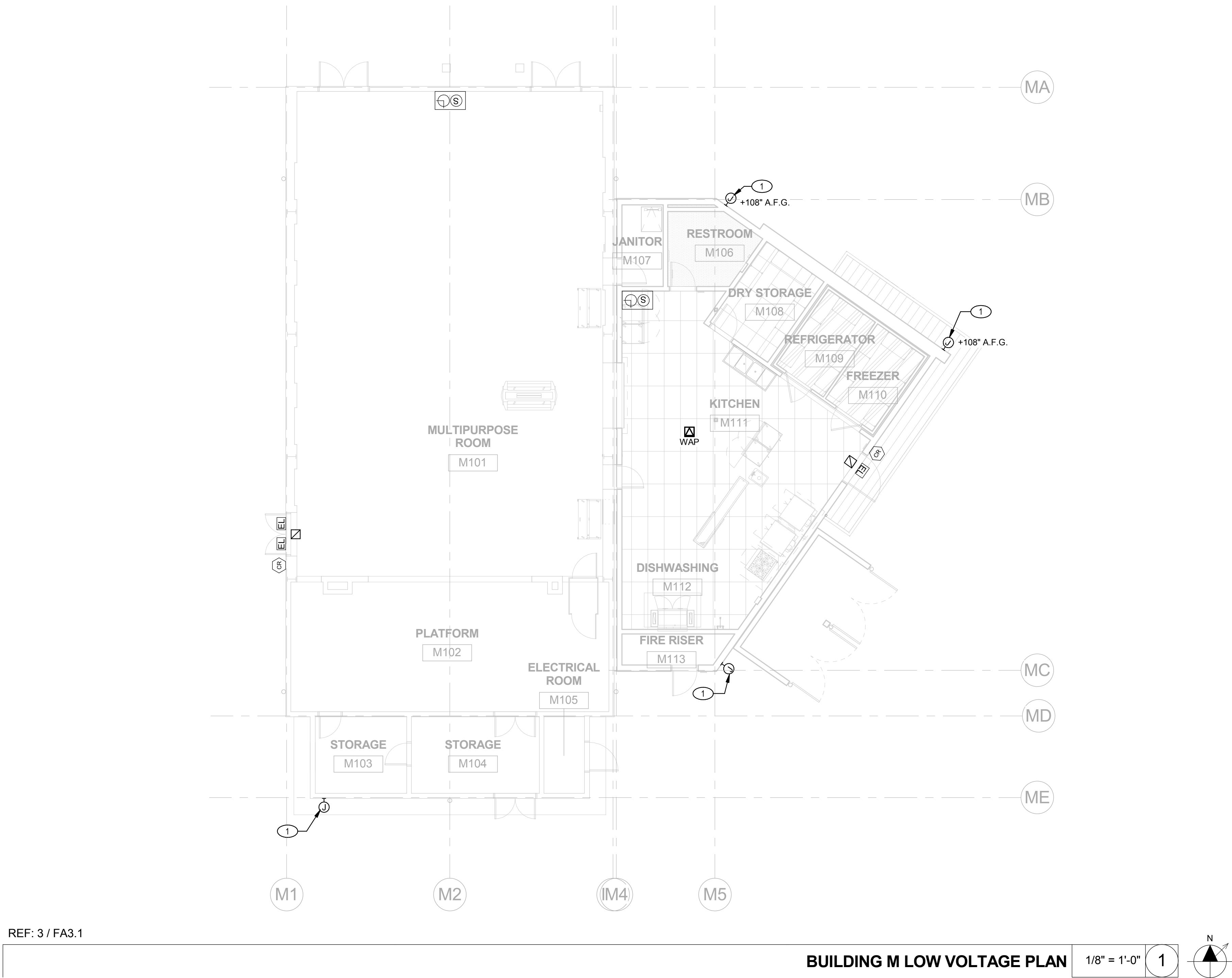
**DESIGN DEVELOPMENT**

**WESTMORE OAKS  
SCHOOL**  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

**BUILDING M ELECTRICAL  
FLOOR PLAN**

Date: 05/20/2019  
Scale: 1/4" = 1'-0"  
Drawn: Author  
Checked: Checker  
Project Number: 19003  
Drawing Number: E4.3





KEY NOTES

1. PROVIDE WEATHERPROOF JUNCTION BOX AT 11' A.F.G. (UNO) FOR DISTRICT PROVIDED SECURITY CAMERA. ELECTRICAL CONTRACTOR SHALL INSTALL THE CAMERA AND WIRING. COORDINATE WITH DISTRICT FOR EXACT LOCATION, AND INSTALLATION HEIGHT PRIOR TO ANY WORK.

GENERAL NOTES

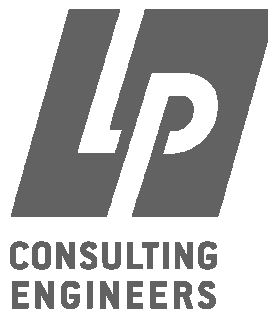
1. SEE LOW VOLTAGE SYSTEMS DIAGRAMS FOR MORE INFORMATION.

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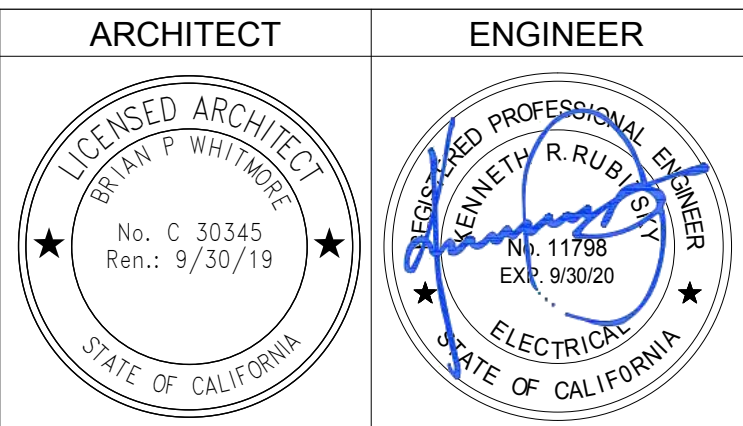
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	<input type="radio"/> BIDDING	
	<input type="radio"/> CONSTRUCTION	

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING M LOW  
VOLTAGE SYSTEMS PLAN

Date  
05/20/2019

Project Number  
19003

Scale  
1/8" = 1'-0"

Drawing Number

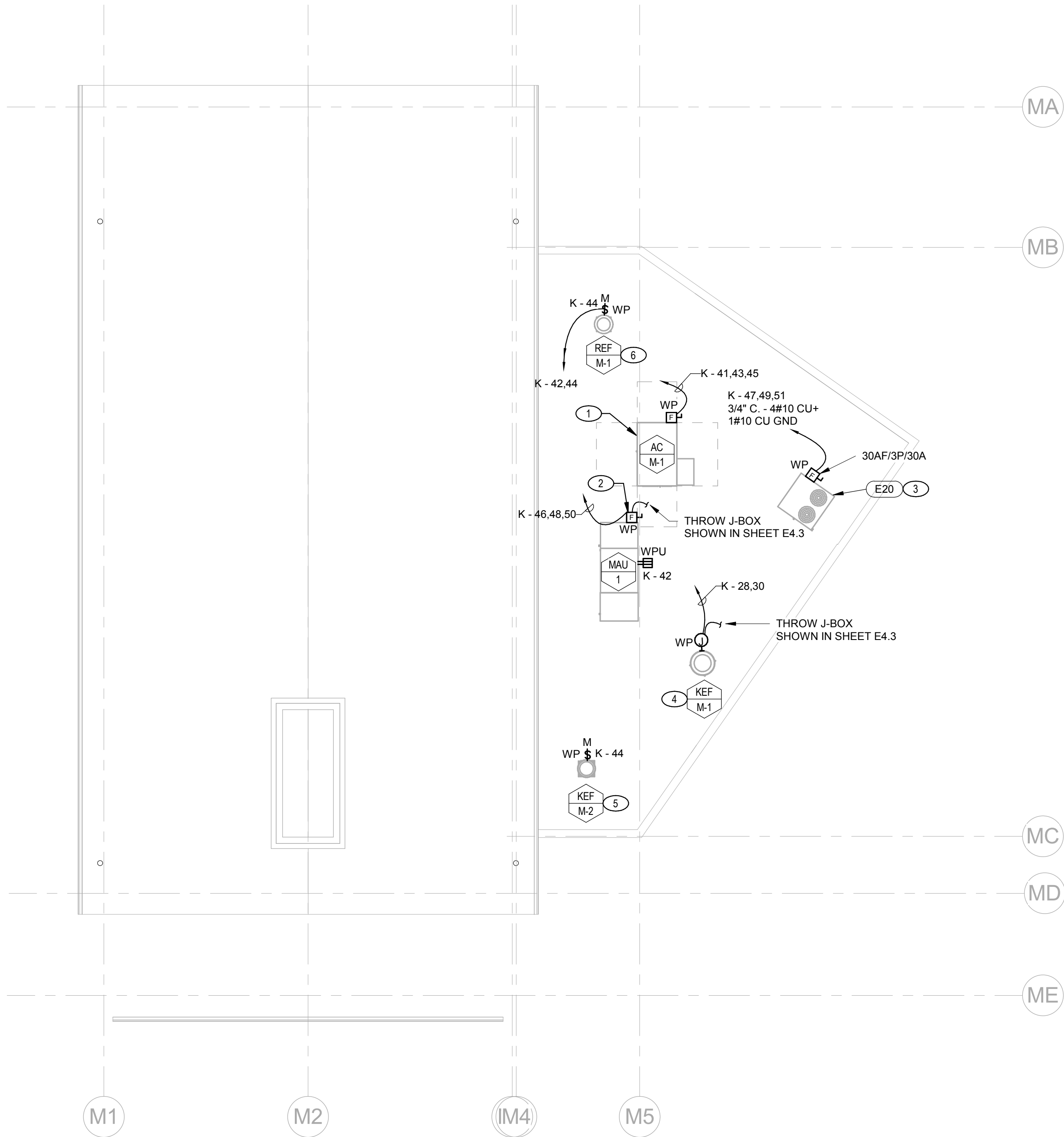
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Author

Checked  
Checker

E4.4



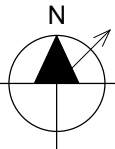
REF: 3 / FA4.1



BUILDING M ELECTRICAL ROOF PLAN

1/8" = 1'-0"

1



#

KEY NOTES

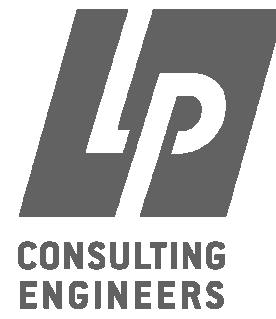
- 1 AC UNIT, 208V/ 3PH, 18A FLA, 21A MCA, 30A MOCP. PROVIDE 30AF/3PH/30A WEATHERPROOF DISCONNECT SWITCH, W/ 3/4" C.-3 # 10 CU + 1 # 10 CU GND.
- 2 MAU-1, 208V/ 3PH, 1.5H. PROVIDE 20AF/3P/30A WEATHERPROOF DISCONNECT SWITCH, W/ 3/4" C.-3 # 12 CU + 1 # 12 CU GND. PROVIDE INTERCONNECTION/INTERLOCK WITH KITCHEN HOOD AS REQUIRED BY MECHANICAL DRAWINGS. PROVIDE ALL COMPONENTS AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM.
- 3 PLEASE SEE SHEET E4.3 FOR KITCHEN EQUIPMENT SCHEDULE.
- 4 KEF M-1; 2 HP, 208V, 1PHASE; PROVIDE 208V POWER CONNECTION. PROVIDE INTERCONNECTION/INTERLOCK WITH KITCHEN HOOD AS REQUIRED BY MECHANICAL DRAWINGS. PROVIDE ALL COMPONENTS AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM.
- 5 KEF M-2, 0.1 HP, 120V, 1PHASE; PROVIDE 120V POWER CONNECTION AND INTERCONNECTION/INTERLOCK WITH (AC-M-1) AS REQUIRED BY MECHANICAL DRAWINGS. PROVIDE ALL COMPONENTS AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM.
- 6 REF M-1, 0.1 HP, 120V, 1 PHASE; PROVIDE 120V POWER CONNECTION.

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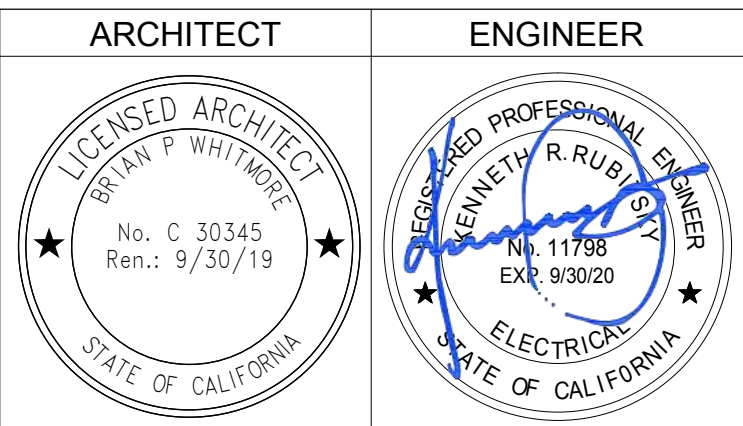
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<input type="radio"/> CONSTRUCTION		

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

BUILDING M ELECTRICAL  
ROOF PLAN

Date

05/20/2019

Scale

1/8" = 1'-0"

Drawn

Author

Project Number

19003

Drawing Number

E4.5

Checked

Checker







Branch Panel: FL1															
Location: ELECTRICAL F112						Volts: 120/208 Wye				A.I.C. Rating: 22 KA					
Supply From: FT1						Phases: 3				Mains Type: MCB					
Mounting: Surface						Wires: 4				Mains Rating: 400 A					
Enclosure: Type 1										MCB Rating: 250 A					
Notes:															
CKT	Load Name			Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	DEDICATED RECEPT. CLASS RM F107			20 A	1	180			900			1	20 A	RECEPT. CLASS RM F106	2
3	RECEPT. CLASS RM F107			20 A	1		900			180		1	20 A	DEDICATED RECEPT. CLASS RM F106	4
5	RECEPT. CLASS RM F107, F108, MP F100			20 A	1			900			1,080	1	20 A	RECEPT. CLASS RM F106, F105	6
7	DEDICATED RECEPT. CLASS RM F108			20 A	1	180			180			1	20 A	DEDICATED RECEPT. CLASS RM F105	8
9	DEDICATED RECEPT. MULTI-PURPOSE F100			20 A	1		180			900		1	20 A	RECEPT. CLASS RM F105, MULTI-PURPOSE...	10
11	RECEPT. CLASS RM F108			20 A	1			900			1,080	1	20 A	RECEPT. CLASS RM F102, ROOF ACCESS...	12
13	RECEPT. CLASS RM F109			20 A	1	900			720			1	20 A	RECEPT. CLASS RM F102	14
15	DEDICATED RECEPT. CLASS RM F109			20 A	1		180			180		1	20 A	DEDICATED RECEPT. CLASS RM F102	16
17	DEDICATED RECEPT. CLASS RM F110			20 A	1			180			180	1	20 A	DEDICATED RECEPT. CLASS RM F101	18
19	RECEPT. CLASS RM F109, F110 MULTI-P. F100			20 A	1	1,080			360			1	20 A	RECEPT. CLASS RM F101	20
21	RECEPT. CLASS RM F111			20 A	1		900			1,080		1	20 A	RECEPT. CLASS RM F101, MULTI-PURPOSE...	22
23	RECEPT. CLASS RM F110			20 A	1			900			360	1	20 A	RECEPT. ON ROOF	24
25	DEDICATED RECEPT. CLASS RM F111			20 A	1	180			720			1	20 A	RECEPT. CLASS RM F111, ELECT. RM, FIRE R...	26
27	RECEPTACLE-IDF			20 A	1		360			200		1	20 A	FIRE BELL	28
29	FIRE ALARM CONTROL PANEL "FACP"			20 A	1			200			0	1	20 A	SPARE	30
31	RECEPTACLE-TBB			20 A	1	360			0		0	1	20 A	SPARE	32
33	SPARE			20 A	1		0			0		1	20 A	SPARE	34
35	SPARE			20 A	1			0			0	1	20 A	SPARE	36
37	SPARE			20 A	1	0			9,603			3	150 A	PANEL-FL2	38
39	SPARE			20 A	1		0			8,149		--	--	--	40
41	SPARE			20 A	1			0			5,007	--	--	--	42
Total Load:						15,363 VA			13,209 VA			10,787 VA			
Total Amps:						131 A			113 A			90 A			
Legend:															
Load Classification				Connected Load			Demand Factor			Estimated Demand			Panel Totals		
Motor				12960 VA			101.39%			13140 VA					
Other				360 VA			100.00%			360 VA			Total Conn. Load: 39,358 VA		
Power				9452 VA			100.00%			9452 VA			Total Est. Demand: 39,518 VA		
RECEPT				16386 VA			100.00%			16386 VA			Total Conn. Current: 109 A		
GENERAL LOADS				200 VA			90.00%			180 VA			Total Est. Demand Current: 110 A		
Notes:															

Branch Panel: GH													
Location: ELECTRICAL G117						Volts: 480/277 Wye				A.I.C. Rating: 65 KA			
Supply From:						Phases: 3				Mains Type: MCB			
Mounting: Surface						Wires: 4				Mains Rating: 225 A			
Enclosure: Type 1										MCB Rating: 200 A			
Notes:													
CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	SITE PATHWAYS LIGHT	20 A	1	105			473			1	20 A	EXTERIOR LTG	2
3	INTERIOR LTG	20 A	1		1,819			1,479		1	20 A	INTERIOR LTG	4
5	INTERIOR LTG	20 A	1			2,120			2,325	1	20 A	INTERIOR LTG	6
7	ROOFTOP AC UNIT #G1	30 A	3	5,742			2,377			3	20 A	ROOFTOP AC UNIT #G6	8
9	--	--	--		5,742			2,377		--	--	--	10
11	--	--	--			5,742			2,377	--	--	--	12
13	ROOFTOP AC UNIT #G2	20 A	3	2,828			2,828			3	20 A	ROOFTOP AC UNIT #G7	14
15	--	--	--		2,828			2,828		--	--	--	16
17	--	--	--			2,828			2,828	--	--	--	18
19	ROOFTOP AC UNIT #G3	20 A	3	2,828			2,828			3	20 A	ROOFTOP AC UNIT #G8	20
21	--	--	--		2,828			2,828		--	--	--	22
23	--	--	--			2,828			2,828	--	--	--	24
25	ROOFTOP AC UNIT #G4	20 A	3	2,828			2,828			3	20 A	ROOFTOP AC UNIT #G9	26
27	--	--	--		2,828			2,828		--	--	--	28
29	--	--	--			2,828			2,828	--	--	--	30
31	ROOFTOP AC UNIT #G15	20 A	3	2,828			0			1	20 A	SPARE	32
33	--	--	--		2,828			0		1	20 A	SPARE	34
35	--	--	--			2,828			0	1	20 A	SPARE	36
37	LIGHTING CONTROL PANEL "LCP"	20 A	1	200			20,736			3	125 A	GT1, 277 V/480 V, Three Phase, 4 Wires, Wye	38
39	SPARE	20 A	1		0			18,136		--	--	--	40
41	SPARE	20 A	1			0			14,046	--	--	--	42
Total Load:				49,418 VA		49,207 VA		46,231 VA					
Total Amps:				180 A		179 A		167 A					
Legend:													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Lighting		105 VA		125.00%		131 VA							
Motor		11520 VA		101.56%		11700 VA		Total Conn. Load: 144,847 VA					
Other		560 VA		100.00%		560 VA		Total Est. Demand: 146,964 VA					
Power		108702 VA		100.00%		108702 VA		Total Conn. Current: 174 A					
Lighting - Dwelling Unit		182 VA		100.00%		182 VA		Total Est. Demand Current: 177 A					
RECEPT		15886 VA		100.00%		15886 VA							
GENERAL LOADS		200 VA		90.00%		180 VA							
LTG		8022 VA		125.00%		10028 VA							
Notes:													

Branch Panel: FH													
Location: ELECTRICAL F112						Volts: 480/277 Wye				A.I.C. Rating: 65 KA			
Supply From:						Phases: 3				Mains Type: MCB			
Mounting: Surface						Wires: 4				Mains Rating: 225 A			
Enclosure: Type 1										MCB Rating: 200 A			
Notes:													
CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	INTERIOR LTG	20 A	1	2,653			200			1	20 A	LIGHTING CONTROL PANEL "LCP"	2
3	INTERIOR LTG	20 A	1		1,694			1,416		1	20 A	INTERIOR LTG	4
5	EXTERIOR LTG	20 A	1			568			1,987	1	20 A	INTERIOR LTG	6
7	ROOFTOP AC UNIT #F1	20 A	3	2,828			2,828			3	20 A	ROOFTOP AC UNIT #F6	8
9	--	--	--		2,828			2,828		--	--	--	10
11	--	--	--			2,828			2,828	--	--	--	12
13	ROOFTOP AC UNIT #F2	20 A	3	2,828			2,828			3	20 A	ROOFTOP AC UNIT #F7	14
15	--	--	--		2,828			2,828		--	--	--	16
17	--	--	--			2,828			2,828	--	--	--	18
19	ROOFTOP AC UNIT #F3	20 A	3	2,828			2,828			3	20 A	ROOFTOP AC UNIT #F8	20
21	--	--	--		2,828			2,828		--	--	--	22
23	--	--	--			2,828			2,828	--	--	--	24
25	ROOFTOP AC UNIT #F4	20 A	3	2,828			2,828			3	20 A	ROOFTOP AC UNIT #F9	26
27	--	--	--		2,828			2,828		--	--	--	28
29	--	--	--			2,828			2,828	--	--	--	30
31	ROOFTOP AC UNIT #F5	20 A	3	2,828			2,828			3	20 A	ROOFTOP AC UNIT #F10	32
33	--	--	--		2,828			2,828		--	--	--	34
35	--	--	--			2,828			2,828	--	--	--	36
37	SPARE	20 A	1	0			15,363			3	125 A	FT1, 277 V/480 V, Three Phase, 4 Wires, Wye	38
39	SPARE	20 A	1		0			13,209		--	--	--	40
41	SPARE	20 A	1		0				10,787	--	--	--	42
				Total Load:	46,376 VA		44,478 VA		41,529 VA				
				Total Amps:	169 A		162 A		150 A				
Legend:													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Motor		12960 VA		101.39%		13140 VA							
Other		560 VA		100.00%		560 VA		Total Conn. Load: 132,383 VA					
Power		94302 VA		100.00%		94302 VA		Total Est. Demand: 134,596 VA					
Lighting - Dwelling Unit		156 VA		100.00%		156 VA		Total Conn. Current: 159 A					
RECEPT		16386 VA		100.00%		16386 VA		Total Est. Demand Current: 162 A					
GENERAL LOADS		200 VA		90.00%		180 VA							
LTG		8152 VA		125.00%		10190 VA							
Notes:													



Branch Panel: K													
Location: KITCHEN M111				Volts: 120/208 Wye				A.I.C. Rating: 65 KA					
Supply From:				Phases: 3				Mains Type: MCB					
Mounting: Recessed				Wires: 4				Mains Rating: 400 A					
Enclosure: Type 1								MCB Rating: 400 A					
Notes:													
CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	FREEZER COIL	20 A	3	1,561			6,605			3	70 A	WARE WASHER (TANK HEAT/MORORS)	2
3	--	--	--		1,561			6,605		--	--	--	4
5	--	--	--			1,561			6,605	--	--	--	6
7	AIR CURTAIN	20 A	1	720			9,967			3	100 A	WARE WASHER (BOOSTER HEATER)	8
9	FREEZER/REFRIGERATOR BOX	20 A	1		840			9,967		--	--	--	10
11	REFRIGERATOR COIL	20 A	1			240			9,967	--	--	--	12
13	RECEPT-MOBILE WARMING CABINET	20 A	1	1,440				720		3	20 A	DISPOSER	14
15	RECEPT-MOBILE WARMING CABINET	20 A	1		1,440				720	--	--	--	16
17	RECEPT-MOBILE WARMING CABINET	20 A	1			1,440			720	--	--	--	18
19	RECEPT-MOBILE WARMING CABINET	20 A	1	1,440			1,920			1	20 A	RECEPT-MILK COOLER	20
21	RECEPT-CHEFS COUNTER	20 A	1		1,800			2,400		1	20 A	RECEPT-CASHIER STATION	22
23	RECEPT-CHEFS COUNTER	20 A	1			1,800			2,400	1	20 A	RECEPT-CASHIER STATION	24
25	RECEPT-CHEFS COUNTER	20 A	1	1,800			1,920			1	20 A	RECEPT-MILK COOLER	26
27	RECEPT-CHEFS COUNTER	20 A	1		1,800			1,000		2	20 A	ROOF KEF-M1	28
29	EXTERIOR LIGHTS	20 A	1			58			1,000	--	--	--	30
31	EXHAUST HOOD LIGHTS	20 A	1	0			700			1	20 A	POWER WH-M1, CP-M1	32
33	RECEPT- CONVENTION OVEN	20 A	1		1,440			200		1	20 A	ENTRANCE AUTOMATIC DOOR POWER	34
35	RECEPT- CONVENTION OVEN	20 A	1			1,440			746	1	20 A	FIRE DOOR POWER	36
37	RECEPT-BURNER RABGE WITH OVEN	20 A	1	12			1,800			1	20 A	HEAT TRACE COOLER	38
39	FIRE SYSTEM AT ANSUL CONTROL	20 A	1			2,400			540	1	20 A	RECEPT, RESTRM, JANITOR, FIRE RISER	40
41	ROOF AC UNIT M-1	30 A	3			2,161			180	1	20 A	ROOF RECEPT	42
43	--	--	--	2,161				200		1	20 A	ROOF KEF-M2, REF-M1	44
45	--	--	--		2,161				500	3	20 A	ROOF MAU-1	46
47	ROOF-REMOTE REFRIGERATION UNIT	30 A	3			2,762			500	--	--	--	48
49	--	--	--	2,762				500		--	--	--	50
51	--	--	--		2,762				807	1	20 A	INTERIOR LIGHTS	52
53	SPARE	20 A	1			0			0	1	20 A	SPARE	54
55	SPARE	20 A	1	0			0		0	1	20 A	SPARE	56
57	SPARE	20 A	1			0			0	1	20 A	SPARE	58
59	SPARE	20 A	1			0			0	1	20 A	SPARE	60
Total Load:				36,228 VA			38,907 VA						
Total Amps:				305 A			328 A						
Legend:													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Motor		2000 VA		125.00%		2500 VA							
Other		300 VA		100.00%		300 VA		Total Conn. Load: 108,714 VA					
Power		77467 VA		100.00%		77467 VA		Total Est. Demand: 99,625 VA					
Lighting - Dwelling Unit		78 VA		100.00%		78 VA		Total Conn. Current: 302 A					
RECEPT		180 VA		100.00%		180 VA		Total Est. Demand Current: 277 A					
LTG		785 VA		125.00%		981 VA							
Notes:													

LIGHTING FIXTURE SCHEDULE									
TYPE	MANUFACTURER	MODEL	LAMP	LUMENS	COLOR TEMPERATURE	VOLTS	WATTS	MOUNTING	DESCRIPTION
A1	H.E. WILLIAMS, INC.	AT1-24-L55/835-D-EM10W-DIM-UNV	LED	5500 lm	3500 K	277 V	59.0 W	RECESSED T-BAR	2X4 LED LAY-IN TROFFER SAFETY TYPE FIXTURE, WITH 0-10V DIMMING DRIVER, EQUIP W/ E10W EMERGENCY BATTERY BACKUP WHERE MARKED AS EMERGENCY.
A2	H.E. WILLIAMS, INC.	AT1-22-L50/835-D-EM10W-DIM-UNV	LED	5000 lm	3500 K	277 V	50.0 W	RECESSED T-BAR	2X2 LED LAY-IN TROFFER SAFETY TYPE FIXTURE, WITH 0-10V DIMMING DRIVER, EQUIP W/ E10W EMERGENCY BATTERY BACKUP WHERE MARKED AS EMERGENCY.
A3	H.E. WILLIAMS, INC.	50-S-24-L59/835-S-EM10W-DIM-UNV	LED	5900 lm	3500 K	277 V	48.0 W	RECESSED T-BAR	2X4 LED LAY-IN TROFFER SAFETY TYPE FIXTURE, WITH 0-10V DIMMING DRIVER, EQUIP W/ E10W EMERGENCY BATTERY BACKUP WHERE MARKED AS EMERGENCY.
A4	LITHONIA LIGHTING	2WRTL-G-L48-7000LM-QAW-AFL-MUOLT-EZ1-30K-80CRI-E10WLCF-P-PA-NP580EZ-WH	LED	7000 lm	3000 K	120 V	58.0 W	RECESSED T-BAR	2X4 LED LAY-IN TROFFER SAFETY TYPE FIXTURE, WITH 0-10V DIMMING DRIVER, EQUIP W/ E10W EMERGENCY BATTERY BACKUP WHERE MARKED AS EMERGENCY.
A5	LITHONIA LIGHTING	2WRTL-G-L24-5000LM-QAW-AFL-MUOLT-EZ1-30K-80CRI-E10WLCF-P-PA-NP580EZ-WH	LED	5000 lm	3000 K	120 V	42.0 W	RECESSED T-BAR	2X2 LED LAY-IN TROFFER SAFETY TYPE FIXTURE, WITH 0-10V DIMMING DRIVER, EQUIP W/ E10W EMERGENCY BATTERY BACKUP WHERE MARKED AS EMERGENCY.
B1	H.E. WILLIAMS, INC.	SLF-4-L35/835-DRV-UNV	LED	3500 lm	3500 K	277 V	35.0 W	WALL/CEILING	LED CEILING/WALL MOUNTED LINEAR TYPE FIXTURE, WITH 0-10V DIMMING DRIVER, EQUIP W/ E10W EMERGENCY LED BATTERY BACKUP WHERE MARKED AS EMERGENCY.
B2	H.E. WILLIAMS, INC.	SLF-4-L26/835-DRV-UNV	LED	2600 lm	3500 K	277 V	26.0 W	WALL/CEILING	LED CEILING/WALL MOUNTED LINEAR TYPE FIXTURE, WITH 0-10V DIMMING DRIVER, EQUIP W/ E10W EMERGENCY LED BATTERY BACKUP WHERE MARKED AS EMERGENCY.
B3	H.E. WILLIAMS, INC.	SLF-4-L26/835-DRV-UNV	LED	2600 lm	3500 K	120 V	26.0 W	WALL/CEILING	LED CEILING/WALL MOUNTED LINEAR TYPE FIXTURE, WITH 0-10V DIMMING DRIVER, EQUIP W/ E10W EMERGENCY LED BATTERY BACKUP WHERE MARKED AS EMERGENCY.
C1	H.E. WILLIAMS, INC.	WMA-4-L25/835-DRV-UNV	LED	2500 lm	3500 K	277 V	26.0 W	WALL	LED WALL MOUNTED LINEAR TYPE FIXTURE, WITH 0-10V DIMMING DRIVER, EQUIP W/ E10W EMERGENCY LED BATTERY BACKUP WHERE MARKED AS EMERGENCY.
C2	H.E. WILLIAMS, INC.	WMA-4-L32/835-DRV-UNV	LED	3200 lm	3500 K	277 V	41.0 W	WALL	LED WALL MOUNTED LINEAR TYPE FIXTURE, WITH 0-10V DIMMING DRIVER, EQUIP W/ E10W EMERGENCY LED BATTERY BACKUP WHERE MARKED AS EMERGENCY.
C3	H.E. WILLIAMS, INC.	WMA-4-L32/835-DRV-UNV	LED	3200 lm	3500 K	120 V	41.0 W	WALL	LED WALL MOUNTED LINEAR TYPE FIXTURE, WITH 0-10V DIMMING DRIVER, EQUIP W/ E10W EMERGENCY LED BATTERY BACKUP WHERE MARKED AS EMERGENCY.
D1	H.E. WILLIAMS, INC.	6DR-L20-8-35-SCA-DIM-UNV-L-W-OF-CS-N-F1	LED	2000 lm	3500 K	277 V	19.5 W	RECESSED	6" LED ROUND DOWNLIGHT W/ 0-10V DIMMING DRIVER, EQUIP W/ EM10W EMERGENCY BATTERY BACKUP WHERE MARKED AS EMERGENCY.
D2	H.E. WILLIAMS, INC.	6DR-L20-8-35-SCA-DIM-UNV-L-W-OF-CS-WET/CC-N-F1	LED	2000 lm	3500 K	277 V	19.5 W	RECESSED	6" LED ROUND DOWNLIGHT W/ 0-10V DIMMING DRIVER, EQUIP W/ EM10W EMERGENCY BATTERY BACKUP WHERE MARKED AS EMERGENCY.
D3	H.E. WILLIAMS, INC.	6DR-L40-8-35-EM10W-DIM-UNV-L-W-OF-CS-N	LED	4000 lm	3500 K	277 V	42.0 W	RECESSED	6" LED ADJUSTABLE ROUND DOWNLIGHT W/ 0-10V DIMMING DRIVER, EQUIP W/ EM10W EMERGENCY BATTERY BACKUP WHERE MARKED AS EMERGENCY.
E1	EATON	CTA-F-2575-40L/835-1-D-UNV-STD-W-AC-48"-JM-8	LED	8000 lm	3500 K	277 V	74.0 W	PENDANT	8FT LED SUSPENDED LINEAR TYPE FIXTURE, WITH 0-10V DIMMING DRIVER.
H1	LEOTEK	ES1-24H-MV-NW-FT-350	LED	3471 lm	4000 K	277 V	30.0 W	WALL	EXTERIOR EGRESS LIGHTING, EQUIP W/ E10W EMERGENCY LED BATTERY BACKUP WHERE MARKED AS EMERGENCY. COORDINATE LIGHT FINISHING COLOR WITH ARCHITECTURE DRAWINGS.
H2	LEOTEK	ES1-24H-MV-NW-W-350	LED	3301 lm	4000 K	120 V	29.0 W	WALL	EXTERIOR GRESS LIGHTING, EQUIP W/ E10W EMERGENCY LED BATTERY BACKUP WHERE MARKED AS EMERGENCY. COORDINATE LIGHT FINISHING COLOR WITH ARCHITECTURE DRAWINGS.
S4	GARDCO BY SIGNIFY	GL18-DIM-2-4-105LA-NW-UNV	LED	10774 lm	4000 K	277 V	105.0 W	POLE LIGHT	PATHWAYS LED LIGHT, MOUNTED @18" A.F.G.
X1	H.E. WILLIAMS, INC.	EXIT/CA-G-WF-WHT-EM-SDT-D	LED	0 lm		277 V	3.8 W	WALL/CEILING	SINGLE/DOUBLE FACE LED EXIT SIGN WITH BATTERY BACK-UP FOR 90 MINUTES. W/ TEST SWITCH AND LED INDICATOR LIGHT.

Branch Panel: GL1														
Location: ELECTRICAL G117				Volts: 120/208 Wye				A.I.C. Rating: 22 KA						
Supply From: GT1				Phases: 3				Mains Type: MCB						
Mounting: Surface				Wires: 4				Mains Rating: 400 A						
Enclosure: Type 1										MCB Rating: 250 A				
Notes:														
CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT	
1	RECEPT. CLASS RM G111, STORAGE...	20 A	1	1,080				180		1	20 A	DEDICATED RECEPT. CLASS RM G108	2	
3	RECEPT. CLASS RM G111	20 A	1		900				900	1	20 A	RECEPT. CLASS RM G108, G106	4	
5	DEDICATED RECEPT. CLASS RM G112	20 A	1			180			1,080	1	20 A	RECEPT. CLASS RM G108, G106, G100	6	
7	DEDICATED RECEPT. MULTI-PURPOSE G100	20 A	1	180				900		1	20 A	RECEPT. CLASS RM G106, MMULTI-PURP...	8	
9	RECEPT. CLASS RM G112, MULTI-PURPOSE...	20 A	1			1,080			180	1	20 A	DEDICATED RECEPT. CLASS RM G106	10	
11	RECEPT. CLASS RM G113, G114	20 A	1				720			1,080	1	20 A	RECEPT. CLASS RM G106, G107, WORKRM...	12
13	RECEPT. CLASS RM G112, G113	20 A	1	1,080				900		1	20 A	RECEPT. OFFICE G102, WORKRM G101	14	
15	DEDICATED RECEPT. CLASS RM G113	20 A	1		180				1,080	1	20 A	RECEPT. CLASS RM G114, G115	16	
17	DEDICATED RECEPT. CLASS RM G114	20 A	1			180				180	1	20 A	DEDICATED RECEPT. CLASS RM G115	18
19	RECEPT. CLASS RM G114, MULTI-PURPOSE...	20 A	1	900				540		1	20 A	RECEPT. ELECT., STORAGE, RIRE R...	20	
21	RECEPT. CLASS RM G115	20 A	1			720			200	1	20 A	FIRE ALARM CONTROL PANEL "FACP"	22	
23	ROOF RECEPT	20 A	1			360				360	1	20 A	DEDICATED RECEPT. IDF	24
25	FIRE BELL	20 A	1	200				1,976		2	25 A	OUTDOOR UNIT G1	26	
27	RECEPTACLE-TBB	20 A	1		360				1,976	--	--	--	28	
29	RECEPT	20 A	1			360				186	1	20 A	IEF-G1	30
31	SPARE	20 A	1	0				0		1	20 A	SPARE	32	
33	SPARE	20 A	1		0				0	1	20 A	SPARE	34	
35	SPARE	20 A	1			0			0	1	20 A	SPARE	36	
37	SPARE	20 A	1	0				12,800		3	150 A	PANEL GL2	38	
39	SPARE	20 A	1			0			10,560	--	--	--	40	
41	SPARE	20 A	1			0				9,360	--	--	42	
Total Load:				20,736 VA			18,136 VA							
Total Amps:				178 A			156 A							
Legend:														
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals						
Motor		11520 VA		101.56%		11700 VA								
Other		360 VA		100.00%		360 VA		Total Conn. Load: 52,918 VA						
Power		24952 VA		100.00%		24952 VA		Total Est. Demand: 53,078 VA						
RECEPT		15886 VA		100.00%		15886 VA		Total Conn. Current: 147 A						
GENERAL LOADS		200 VA		90.00%		180 VA		Total Est. Demand Current: 147 A						
Notes:														



Building G- Indoor Lighting Controls Sequence of Operation																									
ROOM TYPE	ROOM NUMBER	WALL SWITCH				DIMMING			OCCUPANCY SENSING				TIME CLOCK				DAYLIGHT CONTROL			SYSTEM			NOTES		
		ON / OFF ONLY	DIMMER SWITCH	KEY SWITCH	SCENE SWITCH	GRAPHICAL WALL STATION	CONTINUOUS	STEP	MULTI ZONE	VACANCY MODE (MANUAL ON / AUTO OFF)	OCCUPANCY MODE (AUTO ON / AUTO OFF)	PARTIAL AUTO ON (WHEN OCCUPIED)	PARTIAL AUTO OFF (WHEN VACANT)	AUTO OFF TIME OUT (IN MINUTES)	AUTO OFF AFTER HOURS	SCHEDULED ON AT	SCHEDULED OFF AT	VERRIDE SWITCH (2 HOUR)	ON / OFF ONLY	DIMMING	LIGHT LEVEL MAINTAINED AT (IN FOOTCANDLES @2'-6" A.F.F.)	AUTO-CONTROLLED RECEPTACLE		NETWORK	DEMAND RESPONSE
MULTI-PURPOSE ROOM	G100		X	X				X				X	50%	20						X	30		X	X	
WORKROOM	G101		X	X				X				X	50%	20						X	30		X	X	
OFFICE	G102		X					X				X	50%	20						X	30		X	X	
GENDER NEUTRAL	G103	X								X				20											
RESTROOM (GIRLS)	G104	X								X				20											
RESTROOM (BOYS)	G105	X								X				20											
CLASSROOM	G106		X				X				X	50%	20							X	30		X	X	
STORAGE	G107	X								X				20											
CLASSROOM	G108		X				X			X	50%	20								X	30		X	X	
STORAGE	G109	X								X				20											
STORAGE	G110	X								X				20											
CLASSROOM	G111		X				X			X	50%	20								X	30		X	X	
CLASSROOM	G112		X				X			X	50%	20								X	30		X	X	
CLASSROOM	G113		X				X			X	50%	20								X	30		X	X	
CLASSROOM	G114		X				X			X	50%	20								X	30		X	X	
CLASSROOM	G115		X				X			X	50%	20								X	30		X	X	
STORAGE	G116	X							X			20													
ELECTRICAL ROOM	G117	X																							
FIRE RISER ROOM	G118	X								X		20													
LIGHTING CONTROLS NOTES: 1- MANUAL CONTROLS NOT ACCESSIBLE TO UNAUTHORIZED PERSONNEL.																									

LIGHTING CONTROL PANEL SCHEDULE					
Panel Designation: LCP-F			Control Circuit: "FH"-1 (277V)		
Location: ELECTRICAL ROOM			Mounting: SURFACE		
Relay #	Circuit #	Scenario	Voltage	Description / Zone	
1	"FH"-5	3	277	BUILDING EXTERIOR LIGHTING	
2				SPARE	
3				SPARE	
4				SPARE	

Scenario Listings:

(1)

Scheduled ON / OFF

(2)

Astronomic ON / OFF

(3)

Astronomic ON / Scheduled OFF

LIGHTING CONTROL PANEL SCHEDULE					
Panel Designation: LCP-G			Control Circuit: "GH"-37 (277V)		
Location: ELECTRICAL ROOM			Mounting: SURFACE		
Relay #	Circuit #	Scenario	Voltage	Description / Zone	
1	"GH"-1	3	277	SITE LIGHTS	
2	"GH"-2	3	277	BUILDING EXTERIOR LIGHTS	
3				SPARE	
4				SPARE	

Scenario Listings:

- (1) Scheduled ON / OFF
- (2) Astronomic ON / OFF
- (3) Astronomic ON / Scheduled OFF

Building F- Indoor Lighting Controls Sequence of Operation																								
ROOM TYPE	ROOM NUMBER	WALL SWITCH				DIMMING		OCCUPANCY SENSING				TIME CLOCK				DAYLIGHT CONTROL		SYSTEM		NOTES				
		ON / OFF ONLY	DIMMER SWITCH	KEY SWITCH	SCENE SWITCH	GRAPHICAL WALL STATION	CONTINUOUS	STEP	MULTI ZONE	VACANCY MODE (MANUAL ON / AUTO OFF)	OCCUPANCY MODE (AUTO ON / AUTO OFF)	PARTIAL AUTO ON (WHEN OCCUPIED)	PARTIAL AUTO OFF (WHEN VACANT)	AUTO OFF TIME OUT (IN MINUTES)	AUTO OFF AFTER HOURS	SCHEDULED ON AT	SCHEDULED OFF AT	OVERRIDE SWITCH (2 HOUR)	ON / OFF ONLY		DIMMING	LIGHT LEVEL MAINTAINED AT (IN FOOTCANDLES @2'-6" A.F.F.)	AUTO-CONTROLLED RECEPTACLE	NETWORK
MULTI-PURPOSE ROOM	F100		X				X				X	50%		20						X	30		X	X
CLASSROOM	F101		X				X				X	50%		20						X	30		X	X
CLASSROOM	F102		X				X				X	50%		20						X	30		X	X
RESTROOM (BOYS)	F103	X									X			20										
RESTROOM (GIRLS)	F104	X									X			20										
CLASSROOM	F105		X				X				X	50%		20						X	30		X	X
CLASSROOM	F106		X				X				X	50%		20						X	30		X	X
CLASSROOM	F107		X				X				X	50%		20						X	30		X	X
CLASSROOM	F108		X				X				X	50%		20						X	30		X	X
CLASSROOM	F109		X				X				X	50%		20						X	30		X	X
CLASSROOM	F110		X				X				X	50%		20						X	30		X	X
CLASSROOM	F111		X				X				X	50%		20						X	30		X	X
ELECTRICAL ROOM	F112	X																						
FIRE RISER ROOM	F113	X								X				20										
JANITOR	F114	X								X				20										
ROOF ACCESS	F115	X								X				20										
LIGHTING CONTROLS NOTES: 1- MANUAL CONTROLS NOT ACCESSIBLE TO UNAUTHORIZED PERSONNEL.																								

Building M- Indoor Lighting Controls Sequence of Operation																								
ROOM TYPE	ROOM NUMBER	WALL SWITCH				DIMMING		OCCUPANCY SENSING				TIME CLOCK			DAYLIGHT CONTROL		SYSTEM		NOTES					
		ON / OFF ONLY	DIMMER SWITCH	KEY SWITCH	SCENE SWITCH	GRAPHICAL WALL STATION	CONTINUOUS	STEP	MULTI ZONE	VACANCY MODE MANUAL ON / AUTO OFF	OCCUPANCY MODE AUTO ON / AUTO OFF	PARTIAL AUTO ON (WHEN OCCUPIED)	PARTIAL AUTO OFF (WHEN VACANT)	AUTO OFF TIME OUT (IN MINUTES)	AUTO OFF AFTER HOURS	SCHEDULED ON AT	SCHEDULED OFF AT	VERRIDE SWITCH (2 HOUR)		ON / OFF ONLY	DIMMING	LIGHT LEVEL MAINTAINED AT (IN FOOTCANDLES @2'-6" A.F.F.)	AUTO-CONTROLLED RECEPTACLE	NETWORK
KITCHEN	M111		X				X							20										
JANITOR	M107	X								X	X	50%		20										
RESTROOM	M106	X								X				20										
DRY STORAGE	M108		X				X				X	50%		20										
FIRE RISER ROOM	M113	X								X				20										
LIGHTING CONTROLS NOTES:																								
1- MANUAL CONTROLS NOT ACCESSIBLE TO UNAUTHORIZED PERSONNEL.																								

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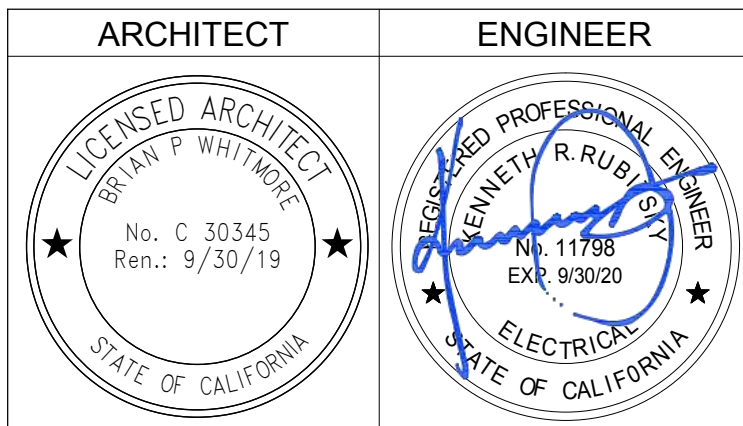


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NO.	REMARKS	DATE

DRAWING STATUS	DATE
<input checked="" type="radio"/> DSA PLAN CHECK	05/20/2019
<input type="radio"/> DSA BACK CHECK	
<input type="radio"/> BIDDING	
<input type="radio"/> CONSTRUCTION	

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

ELECTRICAL SCHEDULES

Date

05/20/2019

Scale

Drawn

Author

Project Number

19003

Drawing Number

E6.3

Checked

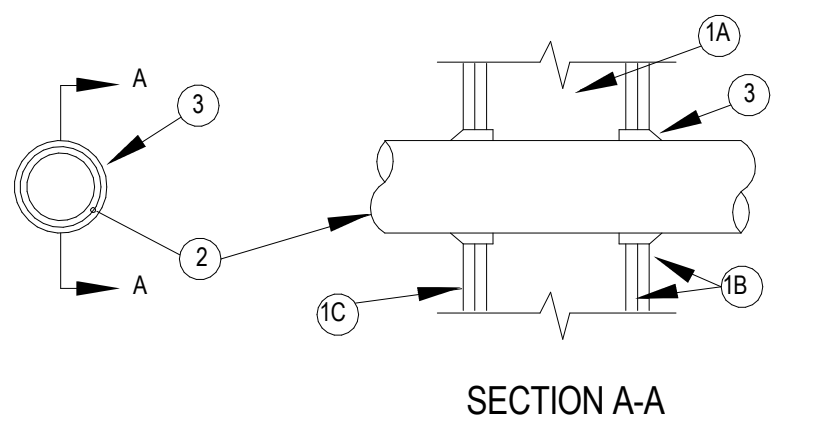
Checker



# THROUGH-PENETRATION FIRESTOP SYSTEMS (GYPSUM)

## SYSTEM NO. WL-1001

F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)  
T RATINGS - 0, 1, 2, 3 AND 4 HR (SEE ITEM 3)  
L RATING AT AMBIENT - LESS THAN 1 CFMSQ. FT.  
L RATING AT 400 F - LESS THAN 1 CFMSQ. FT.



SECTION A-A

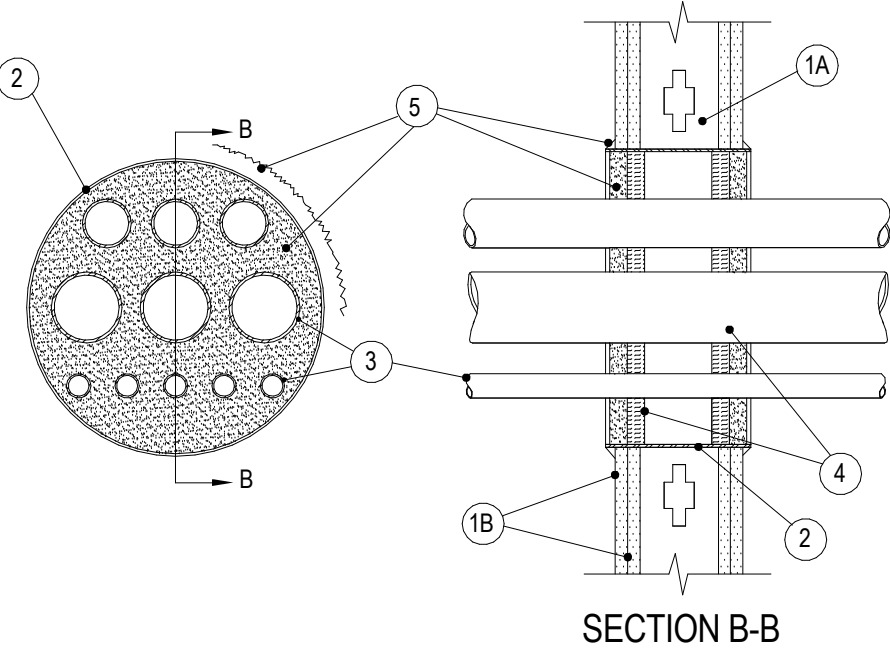
- WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:  
A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 24 FIRE-RATED CHANNEL STUDS, WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MINIMUM 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC)  
B. WALLBOARD, GYPSUM - NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM. OF OPENING IS 12 IN.  
2. PIPE OR CONDUIT - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6 IN. DIAMETER (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR TYPE L (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPES OR FLEXIBLE STEEL CONDUIT IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 1/2. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.  
3. FILL VOID OR CAVITY MATERIAL - CAULK - CAULK FILL MATERIAL TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY F RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF PIPE OR CONDUIT AND THE HOURLY F RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW. F MAX PIPE T

Max Pipe or Conduit Dia In.	Annular Space In.	F Rating Hr	T Rating Hr
1	0 to 3/16	1 or 2	0-1 or 2
1	1/8 to 1/2	3 or 4	3 or 4
4	0 to 1-1/2	1 or 2	0
6	1/4 to 1/2	3 or 4	0
12	3/16 to 3/8	1 or 2	0

\*WHEN COPPER PIPE IS USED, T RATING IS 0 HR.  
3M COMPANY - CP-250B+ CAULK OR FB-300 WT SEALANT.  
BEARING THE UL CLASSIFICATION MARKING

## SYSTEM NO. WL-1016

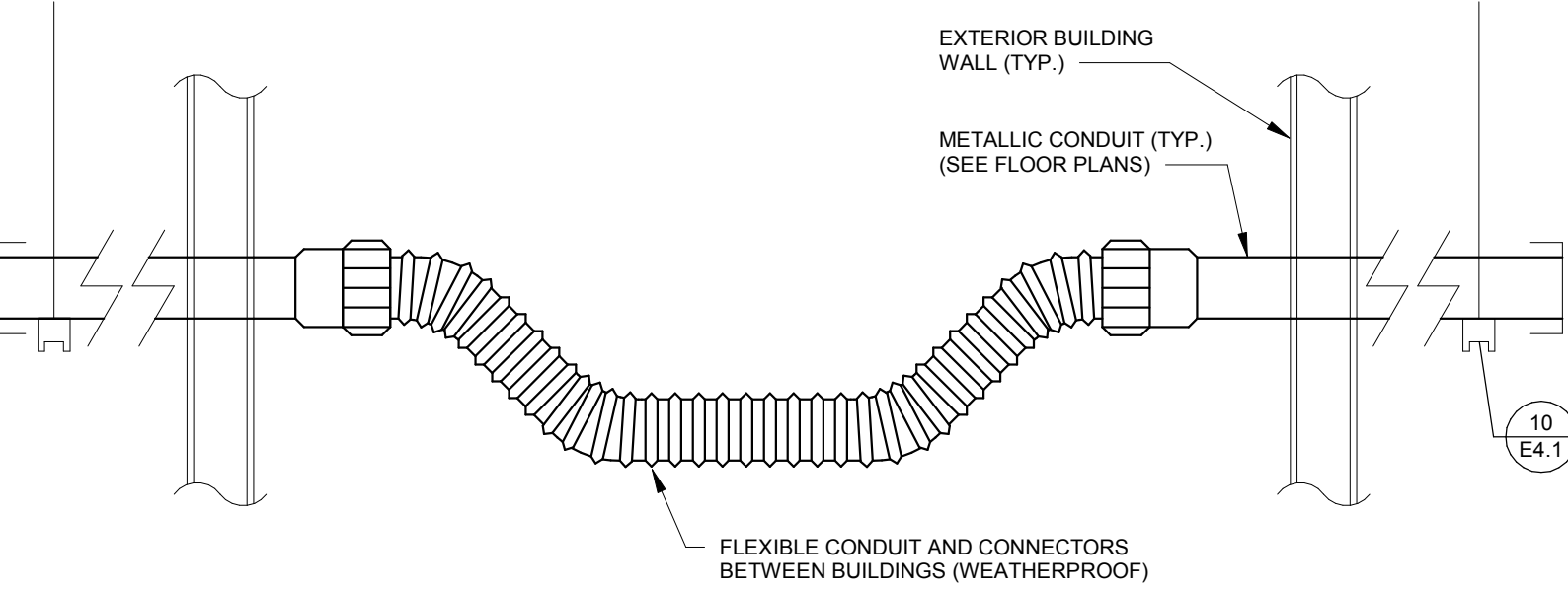
(FORMERLY SYSTEM NO. 322)  
F RATING - 2 HR  
T RATINGS - 1, 1-1/2 AND 2 HR (SEE ITEM 3)  
L RATING AT AMBIENT - 2 CFMSQ. FT.  
L RATING AT 400 F - LESS THAN 1 CFMSQ. FT.



SECTION B-B

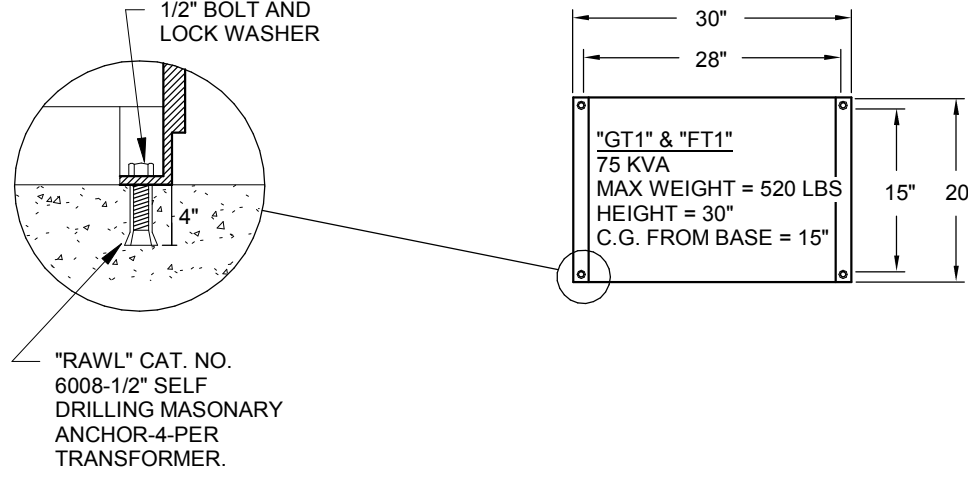
- WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:  
A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC  
B. GYPSUM BOARD - TWO LAYERS OF NOM 5/8 IN. THICK GYPSUM WALLBOARD AS SPECIFIED IN THE INDIVIDUAL WALL OR PARTITION DESIGN. MAX DIAM OF THROUGH OPENING IS 12 IN. BY 9 IN.  
C. FASTENERS - WHEN WOOD STUD FRAMING IS EMPLOYED, GYPSUM WALLBOARD ATTACHED TO STUDS WITH CEMENT COATED NAILS AS SPECIFIED IN THE INDIVIDUAL U300-SERIES DESIGN. WHEN STEEL CHANNEL STUD FRAMING IS EMPLOYED, GYPSUM WALLBOARD ATTACHED TO STUDS WITH TYPE S SELF-DRILLING, SELF-TAPPING BUGLE-HEAD STEEL SCREWS AS SPECIFIED IN THE INDIVIDUAL U400-SERIES DESIGN.  
2. STEEL SLEEVE - NO. 28 GAUGE GALV SHEET STEEL FORMED INTO MAX 12 IN. DIAM OR MAX 12 IN. BY 9 IN. SLEEVE WITH NOM 2 IN. OVERLAP AT SEAM. LENGTH OF SLEEVE TO BE APPROX 1 IN. GREATER THAN OVERALL THICKNESS OF WALL ASSEMBLY SUCH THAT, WHEN INSTALLED, THE ENDS OF THE SLEEVE WILL PROJECT APPROX 1/2 IN. BEYOND THE SURFACE OF THE WALL ON BOTH SIDES OF THE WALL ASSEMBLY. MAX DIAM OF CIRCULAR THROUGH OPENINGS IN GYPSUM WALLBOARD LAYERS ON EACH SIDE OF WALL ASSEMBLY TO BE 12 IN. MAX DIMENSIONS FOR RECTANGULAR OPENINGS IS 12 IN. BY 9 IN. SLEEVE INSTALLED BY COILING THE SHEET STEEL TO A DIAM SMALLER THAN THE THROUGH OPENING, INSERTING THE COIL THROUGH THE OPENINGS AND RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUTOUTS IN THE GYPSUM WALLBOARD LAYERS.  
3. STEEL PIPE OR CONDUIT - NOM 3 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, STEEL CONDUIT OR STEEL ELECTRICAL METALLIC TUBING. MULTIPLE PIPES AND/OR CONDUIT PERMITTED IN SLEEVED OPENING PROVIDED A MIN SEPARATION OF 1/4 IN. IS MAINTAINED BETWEEN PIPES OR CONDUITS. PIPES AND/OR CONDUITS TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. THE T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE MAX DIAM OF THE PIPES OR CONDUITS, AS TABULATED BELOW.  
4. PACKING MATERIAL - MIN 1 IN. THICKNESS OF RIGID GLASS FIBER INSULATION OR MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO STEEL SLEEVE ON BOTH SIDES OF WALL ASSEMBLY AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED MIN 5/8 IN. FROM SURFACE OF WALL ON BOTH SIDES OF WALL ASSEMBLY.  
5. FILL VOID OR CAVITY MATERIALS - CAULK - APPLIED TO FILL THE STEEL SLEEVE TO A MIN DEPTH OF 1 IN. ON BOTH SIDES OF WALL ASSEMBLY. A NOM 1/4 IN. DIAM CONTINUOUS BEAD OF CAULK SHALL BE APPLIED AROUND THE CIRCUMFERENCE OF THE STEEL SLEEVE AT ITS EGRESS FROM THE GYPSUM WALLBOARD LAYERS ON BOTH SIDES OF THE WALL ASSEMBLY.  
3M COMPANY - CP-250B+ CAULK OR FB-300 WT SEALANT.  
\*BEARING THE UL CLASSIFICATION MARKING

Max Pipe or Conduit Diam In.	T Rating Hr
3	1
1	1-1/2
3/4	2



## SEISMIC JOINT CONDUIT DETAIL

SCALE: 1/4" = 1'-0"

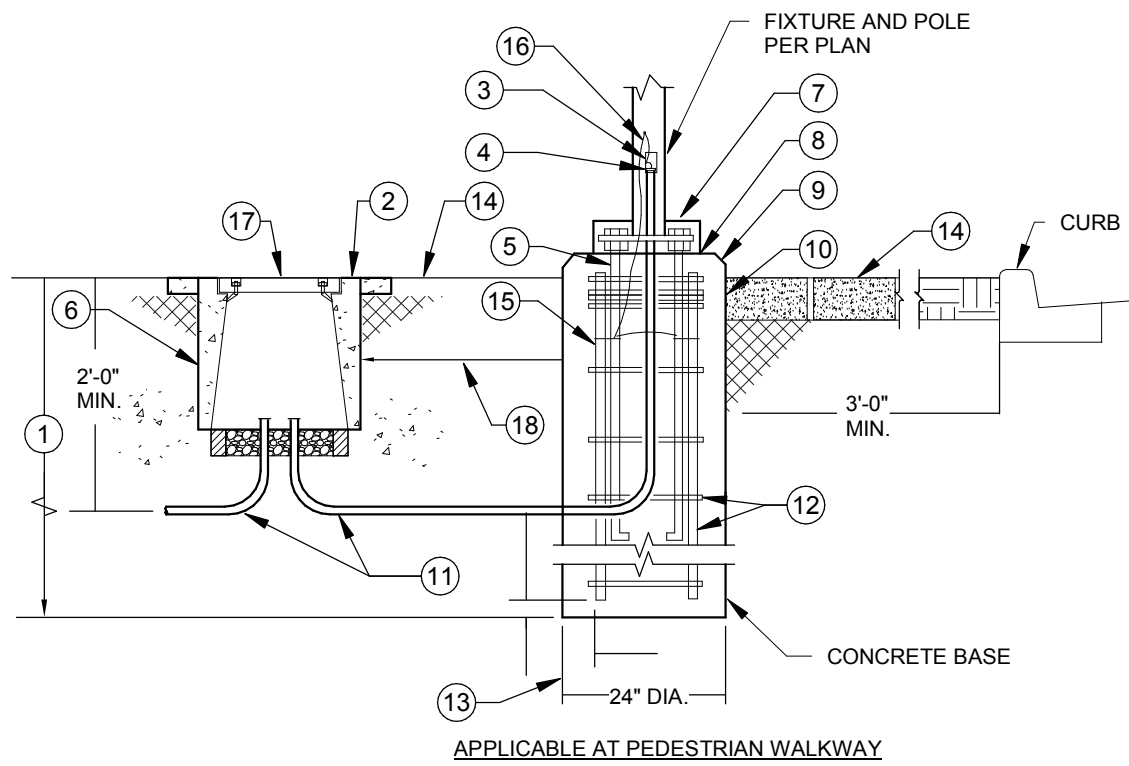


## CABLE SUSPENDED LUMINAIRE WOOD FRAMING

SCALE: 1/4" = 1'-0"

- PROVIDE 48" MINIMUM FOR LIGHT POLE UP TO 25 FEET, AND 60" MINIMUM FOR LIGHT POLE UP TO 35 FEET. COORDINATE CONCRETE BASE SIZE WITH STRUCTURAL ENGINEER.
- GASKETED HANDHOLE COVER WITH TWO STAINLESS STEEL TAMPER PROOF SCREWS.
- CONNECT GROUND WIRE TO GROUNDING LUG OF POLE AT HANDHOLE.
- FOUR ANCHOR BOLTS, SIZE PER MANUFACTURER'S STANDARDS.
- PROVIDE PULL BOX ONLY WHERE SHOWN ON PLAN.
- BASECOVER, SECURE TO POLE AND/OR BASE.
- PROVIDE 1-1/2" MINIMUM GROUT AROUND THE BASE AFTER PLUMB. SLOPE TO GRADE FOR DRAINAGE.
- PROVIDE CONCRETE BASE WITH 1/2" CHAMFER. CONCRETE FILL AND SACK FINISH ALL CONCRETE SURFACE IMPERFECTIONS, CAVITIES AND VOIDS ABOVE FINISHED GRADE.
- PROVIDE (3) #3 REBAR TIES, REINFORCE STEEL HOOPS 2" ON CENTERED WITHIN TOP 5' AREA.
- CONDUIT PER PLAN.
- PROVIDE (6) #4 REINFORCE STEEL RODS AND #3 REINFORCED STEEL HOOPS 9" ON CENTER, SIZE PER MANUFACTURER'S STANDARDS.
- PROVIDE 3" CLEAR IF CAST AGAINST EARTH, TYPICAL.
- FINISHED GRADE OF PAVING PER ARCHITECTURAL DRAWINGS.
- UL LISTED GROUND CLAMP SUITABLE FOR CONCRETE ENCASEMENT OR DIRECT BURIAL. INSTALL CLAMPS ON ALL ANCHOR BOLTS, TYPICAL.
- SPLICE GROUND WIRE AND EXTEND TO GROUND CLAMP AT ANCHOR BOLT.
- PROVIDE TRAFFIC BOLT-DOWN COVER.

LOCATE PULL BOX ADJACENT TO THE POLE CONCRETE BASE.



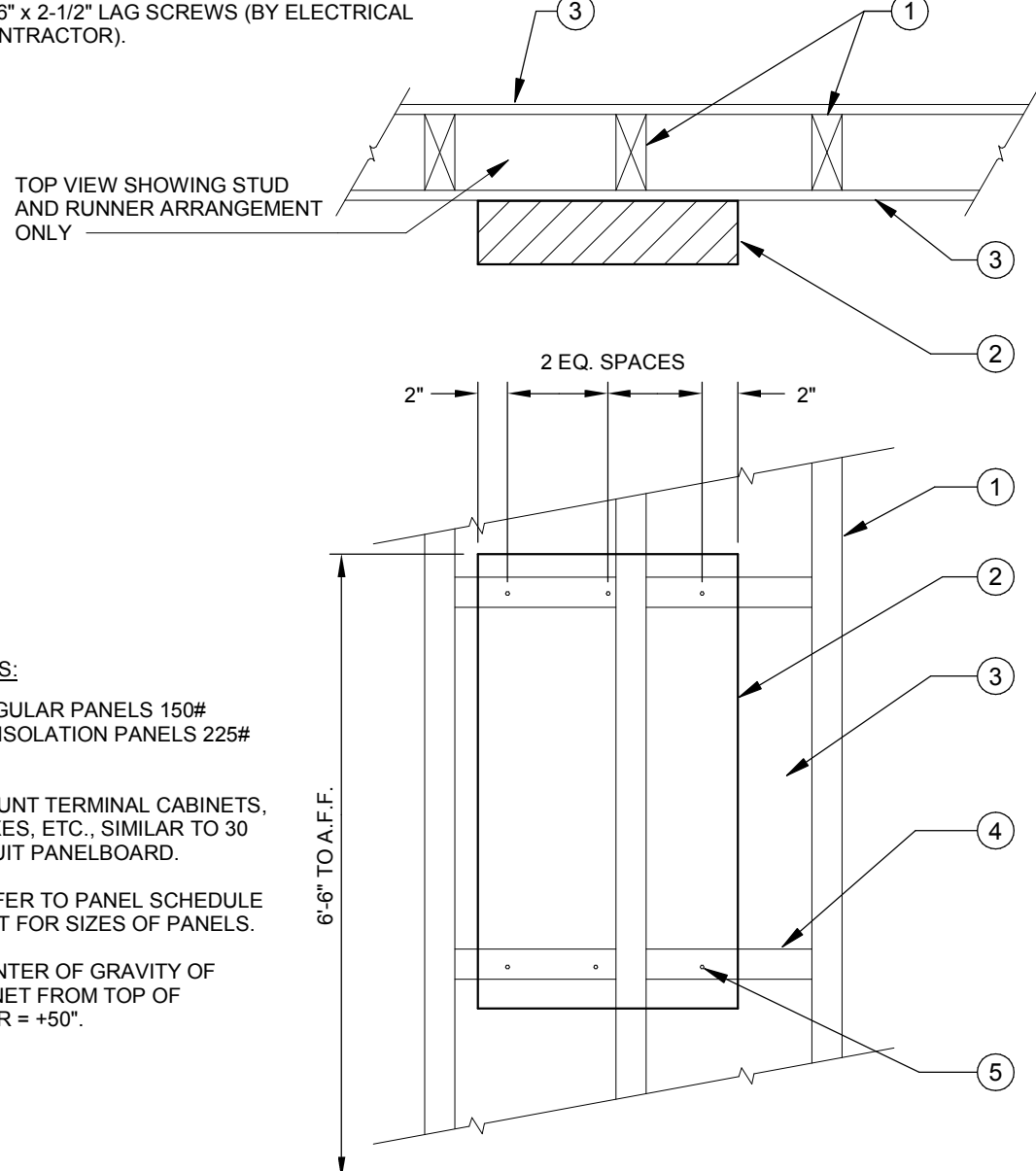
## FIXTURE POLE BASE MOUNTING DETAIL

SCALE: 1/4" = 1'-0"

## FIRE RATED WALL PENETRATION DETAILS (GYPSUM)

SCALE: 1/4" = 1'-0"

- KEY NOTES:
- WOOD STUD.
  - SURFACE MOUNTED PANEL CABINET.
  - SHEET ROCK OR OTHER WALL SURFACE MATERIAL (SEE ARCH. DRAWINGS).
  - WOOD STUDS FASTENED TO VERTICAL STUDS AT EACH END WITH TWO 16D NAILS AT EACH END.
  - 5/16" x 2-1/2" LAG SCREWS (BY ELECTRICAL CONTRACTOR).



- NOTES:
- REGULAR PANELS 150# MAX. ISOLATION PANELS 225# MAX.
  - MOUNT TERMINAL CABINETS, J-BOXES, ETC., SIMILAR TO 30 CIRCUIT PANELBOARD.
  - REFER TO PANEL SCHEDULE SHEET FOR SIZES OF PANELS.
  - CENTER OF GRAVITY OF CABINET FROM TOP OF FLOOR = +50".

## SURFACE PANELBOARD/CABINET WOOD FRAMING MOUNTING DETAIL

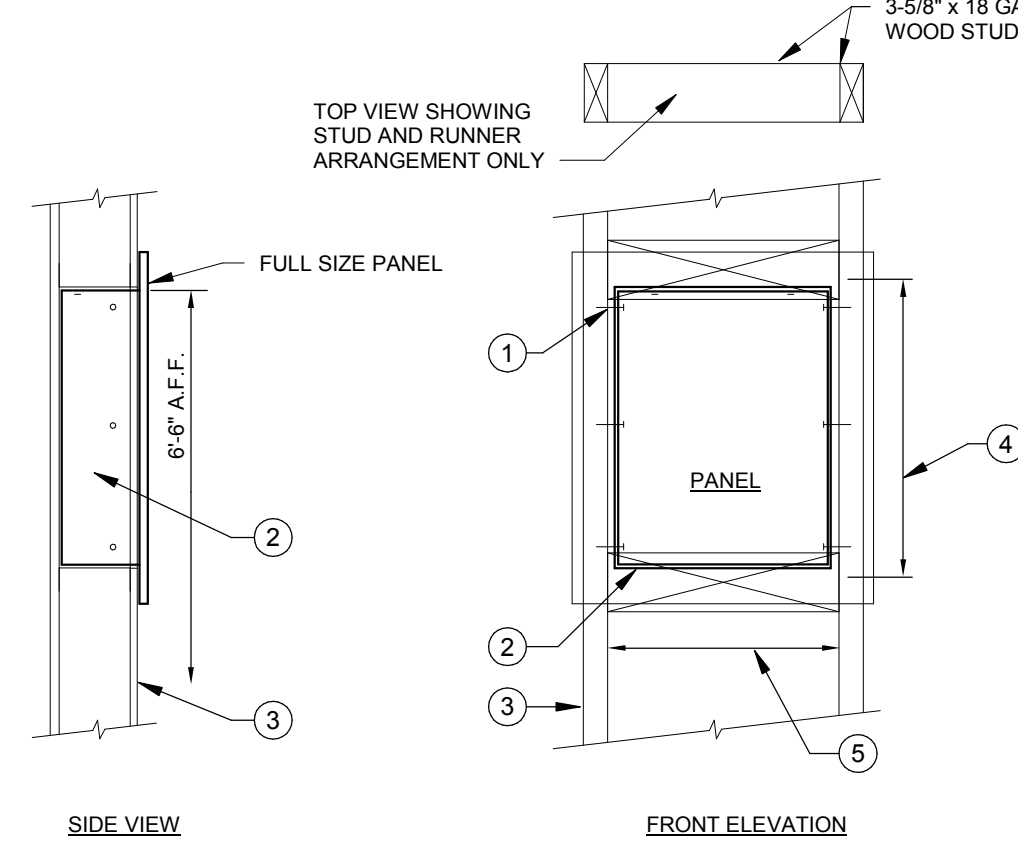
SCALE: 1/4" = 1'-0"

## FLOOR MOUNTED TRANSFORMER DETAILS

SCALE: 1/4" = 1'-0"

- KEY NOTES:
- 1/4" DIA THRU STUDS, TYPICAL AT 3 EACH SIDE AND 2 EACH AT TOP AND BOTTOM OF THE PANEL. (BY ELECTRICAL CONTRACTOR).
  - 5/8" GYPBOARD AROUND PANEL TYPICAL FOR PANELS IN CORRIDOR WALLS, AREA SEPARATION WALLS, OCCUPANCY SEPARATION WALLS, AND FIRE TREATED WALLS.
  - WOOD STUD PER ARCHITECTURAL DRAWINGS AND REQUIREMENTS.
  - ADD 1-1/8" TO PANEL HEIGHT INSIDE DIM. OF FRAME VERIFY EQUIPMENT SIZE IN FIELD.
  - ADD 1-1/8" TO PANEL WIDTH INSIDE DIM. OF FRAME. VERIFY EQUIPMENT SIZE IN FIELD.

- NOTES:
- USE FENDER WASHER ON ALL BOLTS.
  - REGULAR PANELS 150# MAX. ISOLATION PANELS 225# MAX.
  - MOUNT TERMINAL CABINETS AND ETC., SIMILAR TO 30 CIRCUIT PANELBOARD.
  - REFER TO PANEL SCHEDULE SHEET FOR SIZES OF PANELS.
  - CENTER OF GRAVITY OF CABINET FROM TOP OF FLOOR = +50"



## FLUSH PANELBOARD/CABINET MOUNTING DETAIL WOOD FRAMING

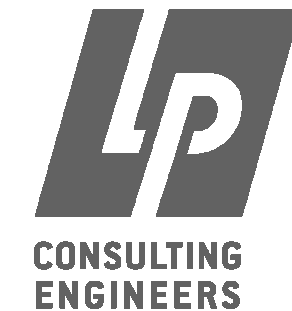
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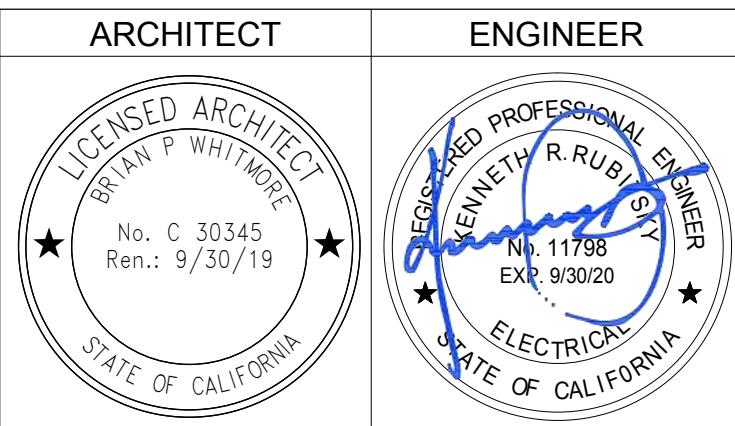
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NO.	REMARKS	DATE

REVISION HISTORY	DATE

DRAWING STATUS	DATE

DATE 05/20/2019

1. DSA PLAN CHECK

2. DSA BACK CHECK

3. BIDDING

4. CONSTRUCTION

## KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

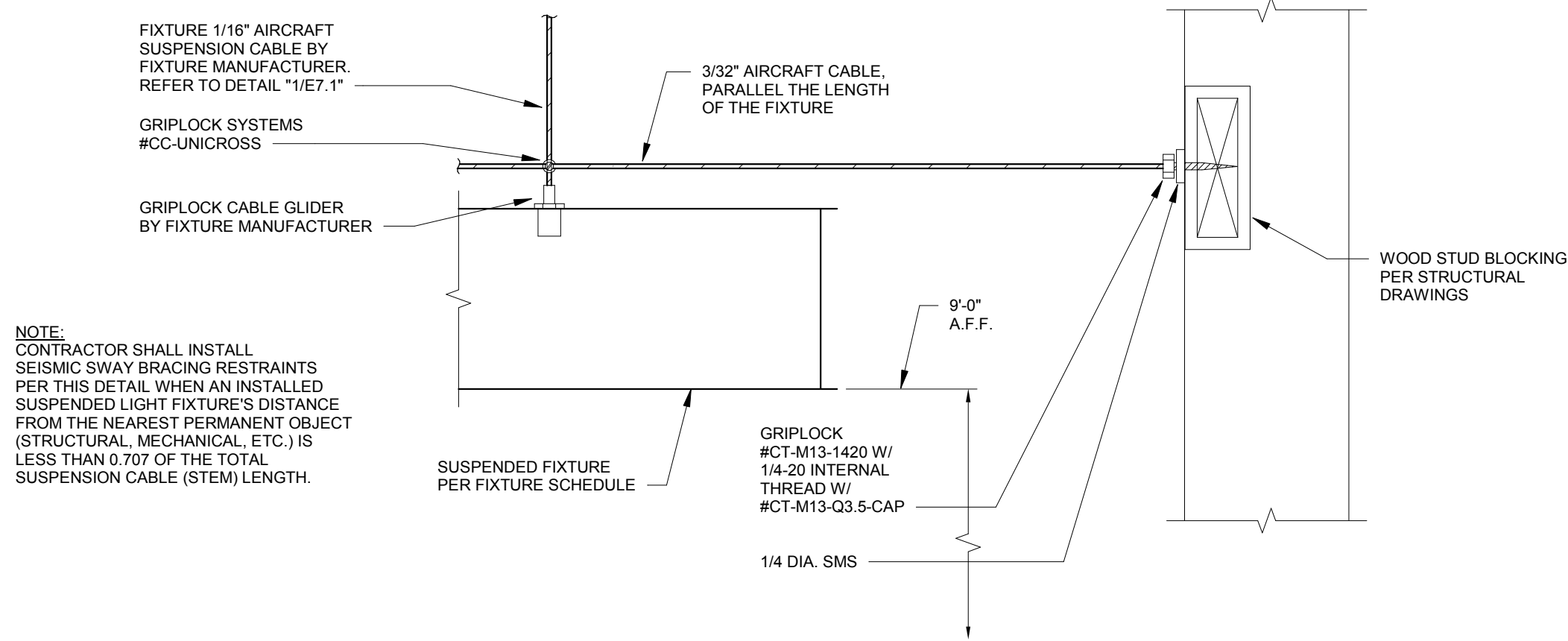
## DESIGN DEVELOPMENT

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NEW BLDGS F & G AND BLDG M  
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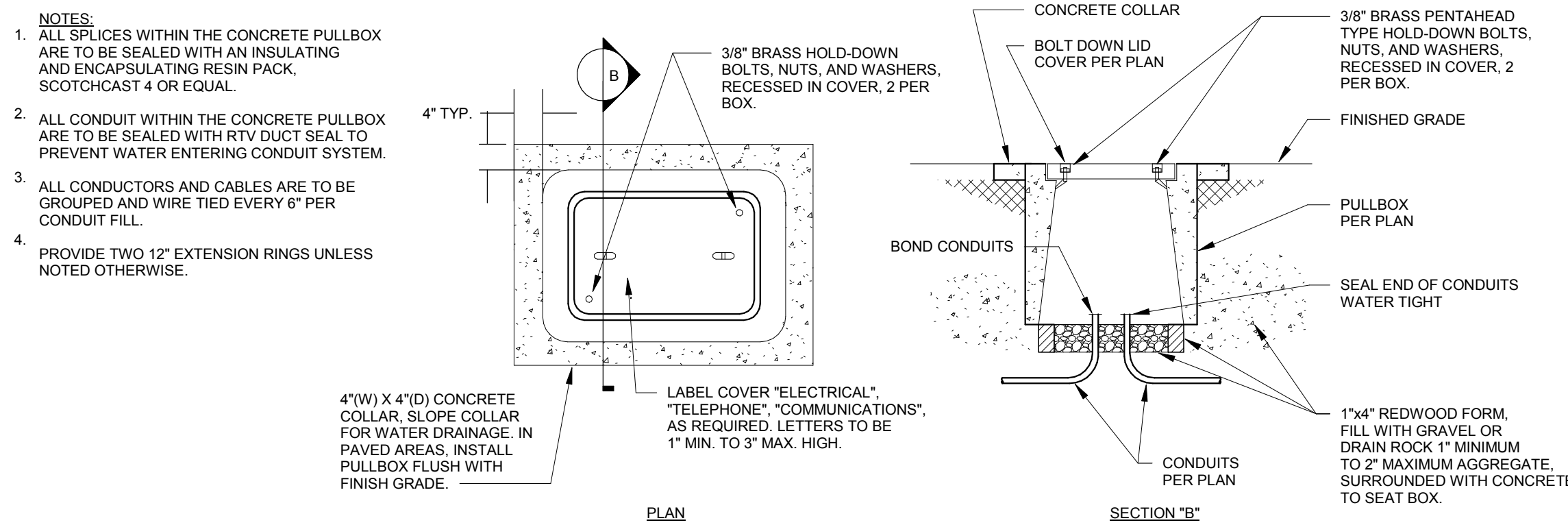
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Date 05/20/2019	Project Number 19003
Scale 1/4" = 1'-0"	Drawing Number E7.1
Drawn Author	Checked Checker

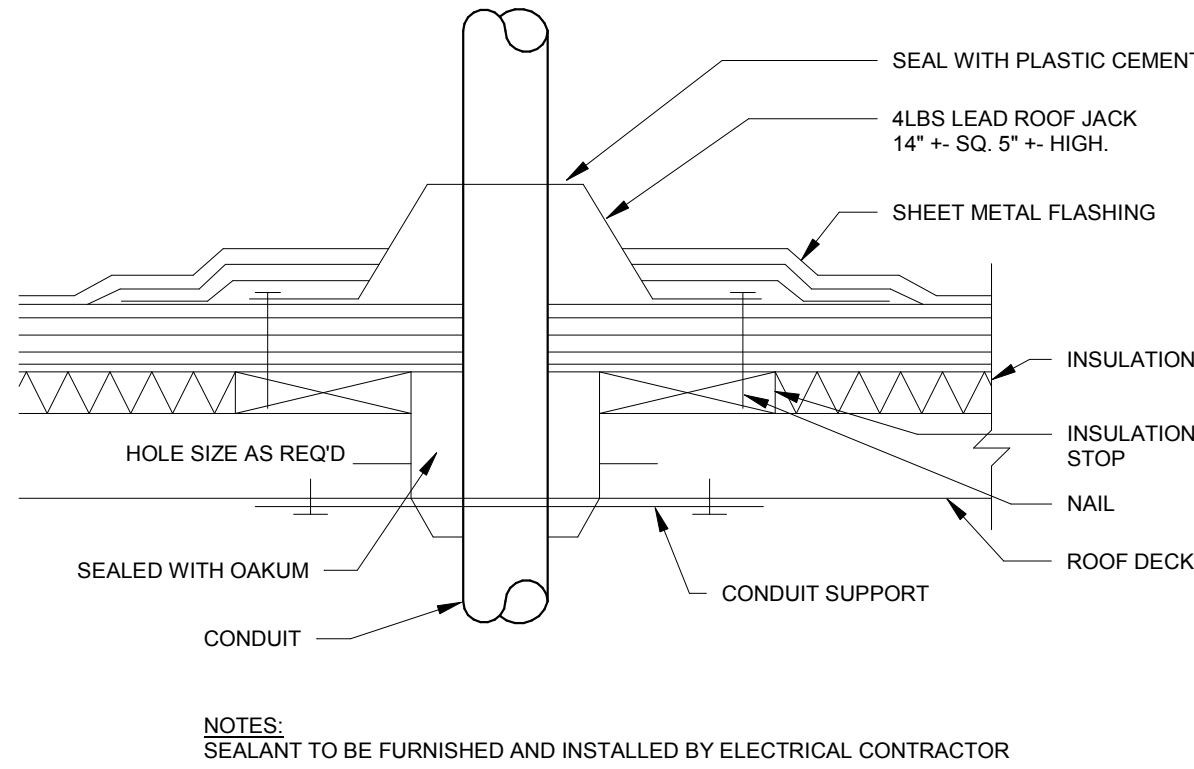




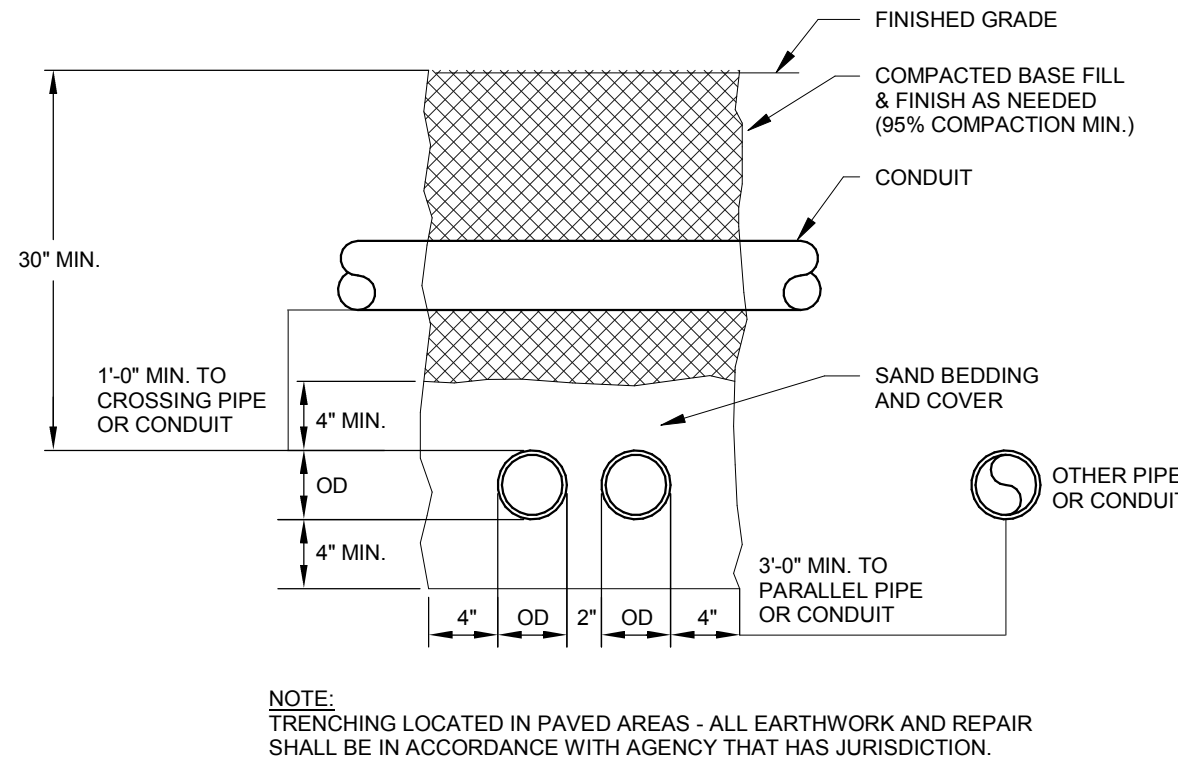
**3 SEISMIC SWAY BRACING FOR CABLE SUSPENDED LT FIXT WOOD FRAMING**  
SCALE: 1/4" = 1'-0"



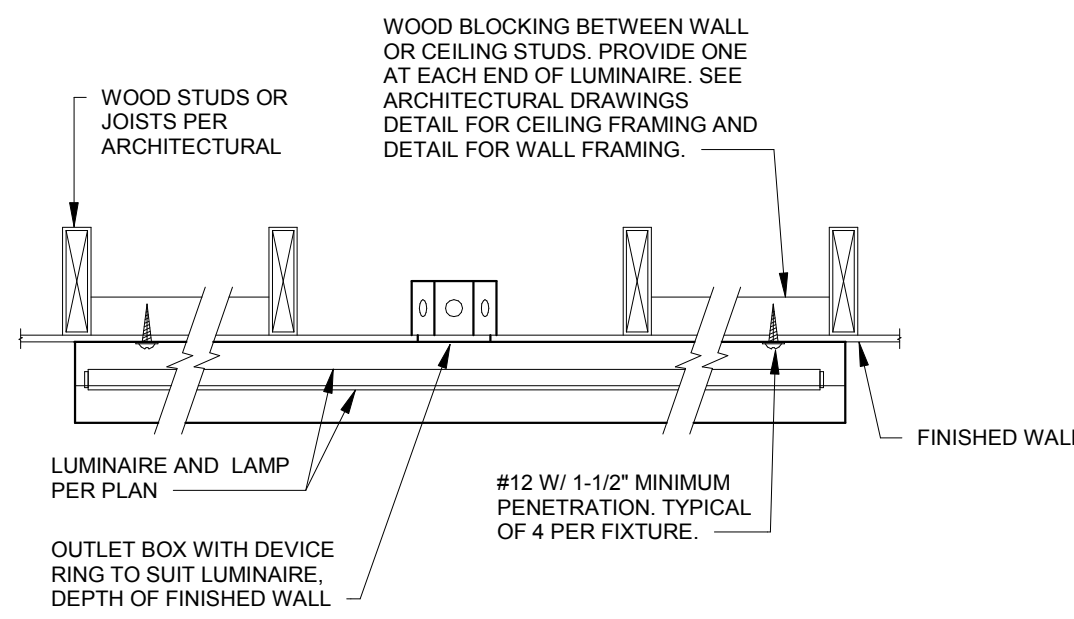
**6 UNDERGROUND CONCRETE PULLBOX DETAIL**  
SCALE: 1/4" = 1'-0"



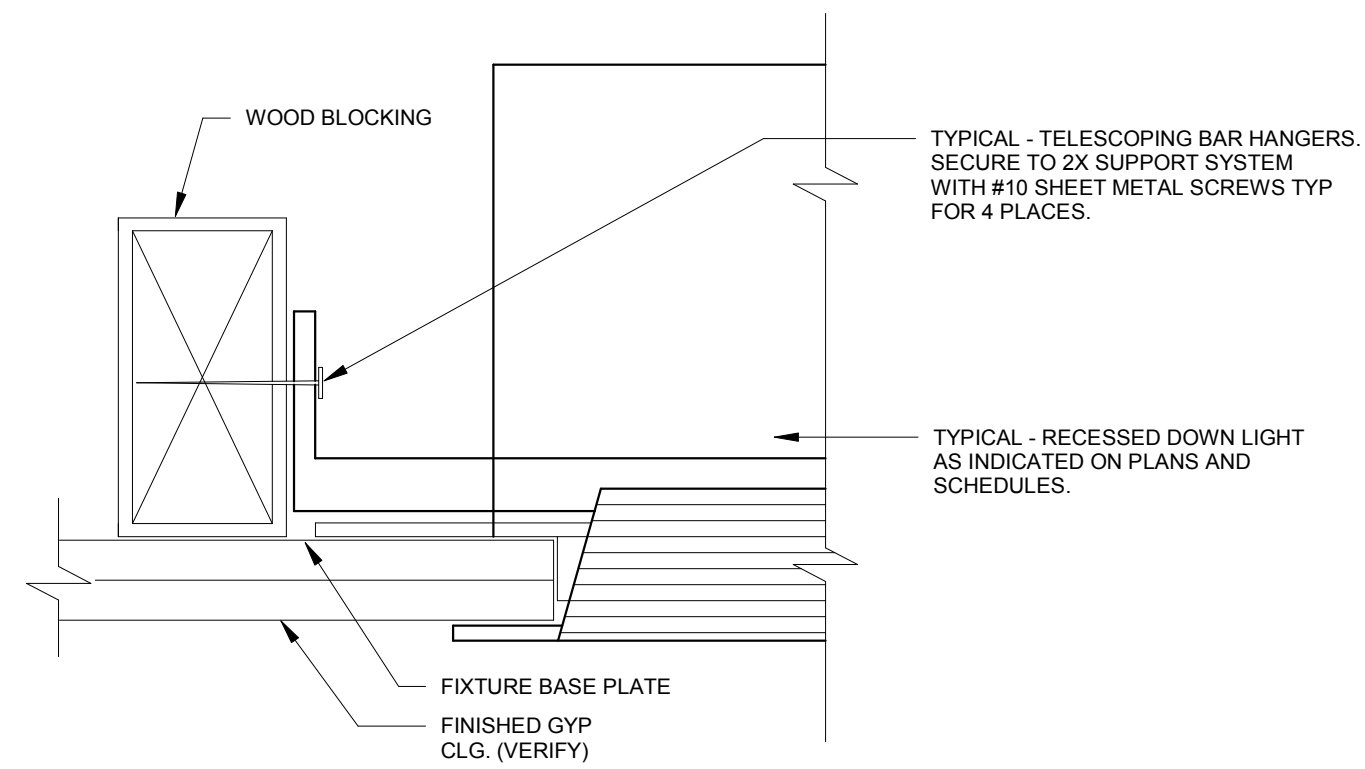
**2 ROOF CONDUIT PENETRATION DETAIL**  
SCALE: 1/4" = 1'-0"



**5 TYPICAL TRENCH DETAIL**  
SCALE: 1/4" = 1'-0"



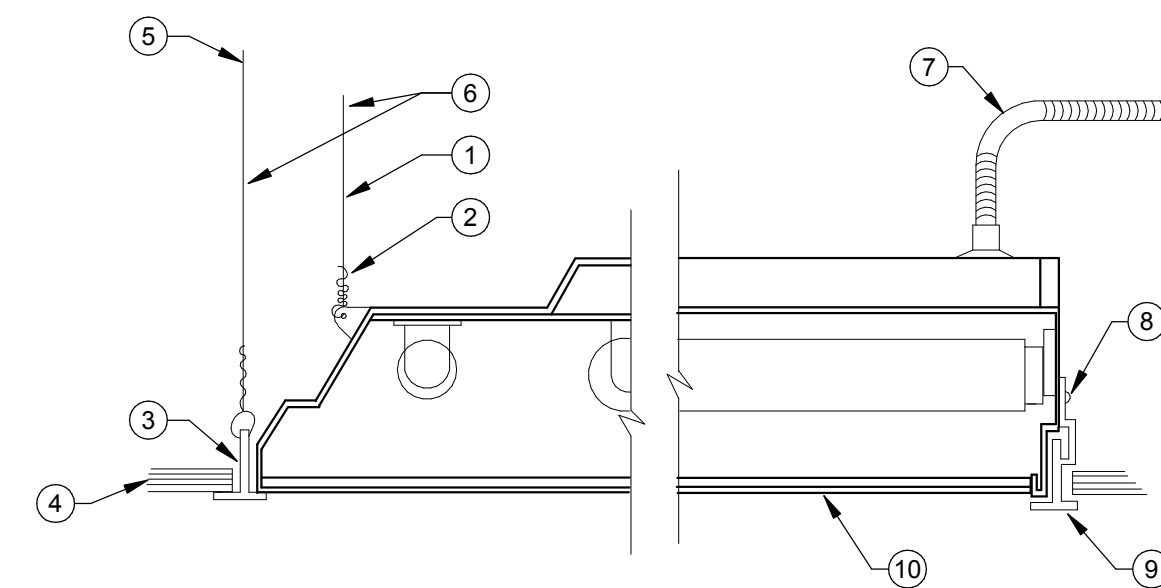
**7 WALL-CLG MTD LT FIXT WOOD FRAMING**  
SCALE: 1/4" = 1'-0"



**1 RECESSED LIGHT FIXTURE WOOD FRAMING**  
SCALE: 1/4" = 1'-0"

**KEYED NOTES:**

- 1 LIGHT FIXTURE SUPPORT WIRE, #12 GALVANIZED IRON STEEL WIRE. SEE NOTE #2. SECURE TO STRUCTURAL MEMBERS SIMILAR TO CEILING SUPPORT WIRES. SEE NOTE #1.
- 2 TYPICAL - 4 TIGHT TURNS MINIMUM, WITHIN 1'-0\"/>
- 3 CROSS T BAR.
- 4 TYPICAL - ACOUSTICAL TILE.
- 5 CEILING SUPPORT WIRES PER ARCHITECTURAL PLAN.
- 6 SEE STRUCTURAL DRAWINGS FOR UPPER ATTACHMENT TO BUILDING STRUCTURE.
- 7 TYPICAL FLEX CONDUIT W/ ALL NECESSARY FITTINGS TO JUNCTION BOX. PROVIDE #12 IR GROUND WIRE AND BOND TO LIGHT FIXTURE.
- 8 T BAR CLIP AT LIGHT FIXTURE (OR ROWS) SHALL HAVE 2 CLIPS AT EACH END. SEE SPECS.
- 9 MAIN T RUNNER.
- 10 TYPICAL RECESSED FIXTURE. SEE SCHEDULES.



**GENERAL NOTES:**

1. INSTALL LIGHT SUPPORTS IN ACCORDANCE WITH THE REQUIREMENTS, INTERPRETATION OF REGULATIONS (IR)M-3, TITLE 24, PARTS 1 AND 2, CALIFORNIA CODE OF REGULATIONS.
2. SUPPORT T-BAR CEILING LAY-IN LIGHT FIXTURES IN ACCORDANCE WITH THE FOLLOWING TABLE.

TYPE OF CEILING	LIGHT FIXTURE SIZE	FIXTURE WEIGHT	WIRE HANGERS
HEAVY DUTY	2' X 4' OR LESS	< 55 LBS.	2 #12 GA. (SLACK)
HEAVY DUTY	4' X 4'	< 55 LBS.	4 #12 GA. (SLACK)
INTERMEDIATE	ALL	> 55 LBS.	4 #12 GA. (TAUT)
ALL	ALL	> 55 LBS.	4 #12 GA. (TAUT)

**4 T-BAR LAY-IN LIGHT FIXTURE**  
SCALE: 1/4" = 1'-0"

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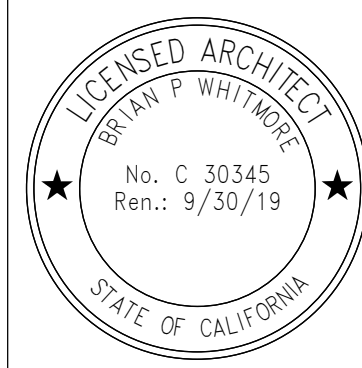
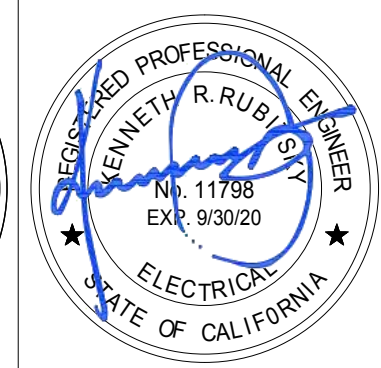


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Job #: 19-2007

ARCHITECT	ENGINEER
	

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NO.	REMARKS	DATE

DRAWING STATUS	<input checked="" type="radio"/> DSA PLAN CHECK	DATE
	<input type="radio"/> DSA BACK CHECK	05/20/2019
	<input type="radio"/> BIDDING	
	<input type="radio"/> CONSTRUCTION	

**KEY PLAN**

**WASHINGTON UNIFIED  
SCHOOL DISTRICT**  
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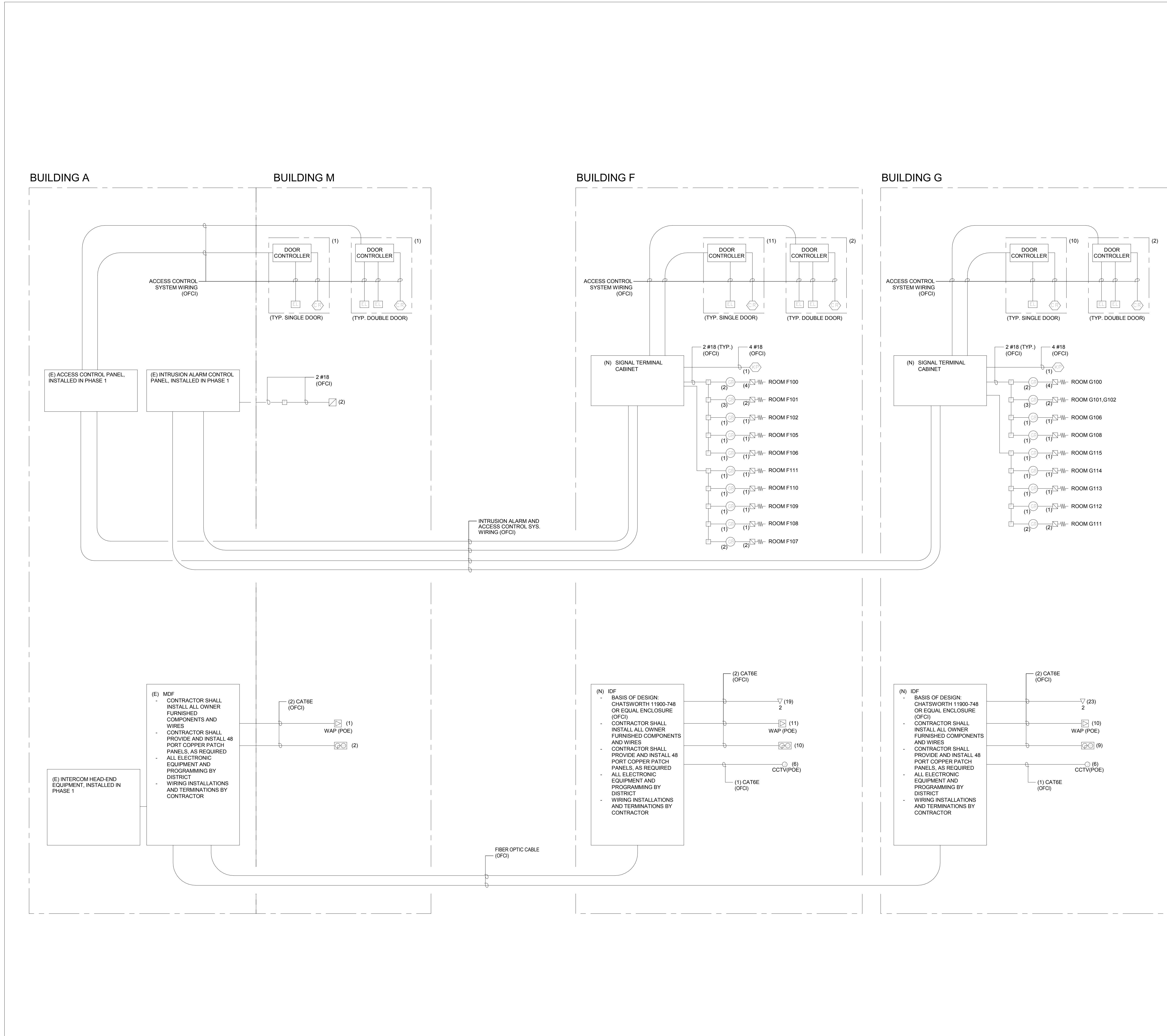
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WEST SACRAMENTO, CA 95691

**ELECTRICAL DETAILS**

Date 05/20/2019	Project Number 19003
Scale 1/4" = 1'-0"	Drawing Number <b>E7.2</b>
Drawn Author	Checked Checker





#### LOW VOLTAGE SYSTEMS NOTES

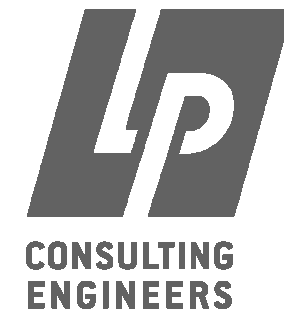
1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK. REPORT TO ENGINEERS ANY DISCREPANCIES.
2. LOW VOLTAGE SYSTEMS ARE FURNISHED BY OWNER/DISTRICT, AND INSTALLED BY CONTRACTOR, PER THE DISTRICT STANDARD (OFCI), MATCHING EXISTING SYSTEMS INSTALLED UNDER PHASE 1 MODERNIZATION PROJECT.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR MASTER CLOCK, INTERCOM, INTRUSION AND ACCESS CONTROL SYSTEMS, BASED ON DISTRICT STANDARDS, INCLUDING DEVICES/COMPONENTS LOCATIONS AND CONNECTION DIAGRAMS, FOR REVIEW AND APPROVAL.
4. CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES, CABINETS AND PATHWAYS, AND INSTALL ALL OWNER FURNISHED DEVICES, EQUIPMENT AND WIRES. CONTRACTOR SHALL MAKE THE FINAL WIRING TERMINATIONS.

DSA STAMP

BCA

architecture  
planning  
interiors

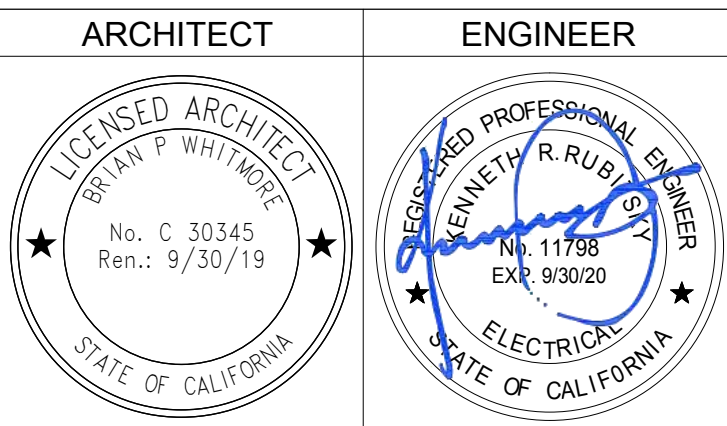
BCA Architects  
980 9th St. Suite 2050  
Sacramento, California 95814  
[ T ] 916.254.5600  
www.BCAarchitects.com



MEP & FS / Sustainability / CxA

1209 Pleasant Grove Blvd.  
Roseville, CA 95678  
p 916-771-0778

www.lpenginers.com  
Job #: 19-2007



- GENERAL NOTES
1. This sheet is part of a set and is not to be used alone.
  2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
  3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
  4. Copyright Burton Clifford Associates, 2015.

NO.	REMARKS	DATE

DRAWING STATUS	DATE
<input checked="" type="radio"/> DSA PLAN CHECK	05/20/2019
<input type="radio"/> DSA BACK CHECK	
<input type="radio"/> BIDDING	
<input type="radio"/> CONSTRUCTION	

#### KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

LOW VOLTAGE SYSTEMS  
DIAGRAMS

Date

05/20/2019

Scale

12" = 1'-0"

Drawn

Author

Project Number

19003

Drawing Number

E7.3







Project Name:	Westmore Oaks ES - Bldg F	NRCC-PRF-01-E	Page 11 of 23				
Project Address:	1504 Fallbrook St West Sacramento 95691	Calculation Date/Time:	08/30, Tue, May 14, 2019				
Compliance Scope:	NewComplete	Input File Name:	Westmore Bldg F T24.cibd16x				
O. EQUIPMENT CONTROLS							
1.		2.		\$ 120.2		Confirmed	
Equip Name		Equip Type		Controls		Pass	Fail
AC F-2		SZAC		No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery		<input type="checkbox"/>	<input type="checkbox"/>
AC F-3		SZAC		No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery		<input type="checkbox"/>	<input type="checkbox"/>
AC F-4		SZAC		No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery		<input type="checkbox"/>	<input type="checkbox"/>
AC F-5		SZAC		No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery		<input type="checkbox"/>	<input type="checkbox"/>
AC F-6		SZAC		No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery		<input type="checkbox"/>	<input type="checkbox"/>
AC F-7		SZAC		No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery		<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance      Report Version: NRCC-PRF-01-E-08022018-5302      Report Generated at: 2019-05-14 08:31:32

Project Name:	Westmore Oaks ES - Bldg F	NRCC-PRF-01-E	Page 14 of 23					
Project Address:	1504 Fallbrook St West Sacramento 95691	Calculation Date/Time:	08/30, Tue, May 14, 2019					
Compliance Scope:	NewComplete	Input File Name:	Westmore Bldg F T24.cibd16x					
R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E) <sup>1</sup>								
Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft <sup>2</sup> in offices)		Installed Watts (Conditioned)		\$ 130.0				
				Confirmed				
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined		Total Number Luminaires	Installed Watts	Pass	Fail
			CEC Default from NA8	According to §130.0(c)				
A1	2x4 Recessed LED Troffer A1	59	Yes	No	81	4,779	<input type="checkbox"/>	<input type="checkbox"/>
A2	2x2 Recessed LED Troffer A2	50	Yes	No	9	450	<input type="checkbox"/>	<input type="checkbox"/>
A3	2x4 Recessed LED Troffer A3	48	Yes	No	26	1,248	<input type="checkbox"/>	<input type="checkbox"/>
B1	4" Wall Mtd LED Fixture B1	35	Yes	No	1	35	<input type="checkbox"/>	<input type="checkbox"/>
B2	1x4 Surface Mtd LED Linear Fixture B2	26	Yes	No	7	182	<input type="checkbox"/>	<input type="checkbox"/>
C1	Wall Mtd 4" LED Fixture C1	26	Yes	No	2	52	<input type="checkbox"/>	<input type="checkbox"/>
D1	LED Downlight Recessed Can D1	20	No	Yes	9	180	<input type="checkbox"/>	<input type="checkbox"/>
E1	8" Susp LED Linear Fixture E1	74	Yes	No	9	666	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup> Lighting power densities were used in the compliance model. Building Department will need to check prescriptive forms for Luminaire Schedule details.

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES		\$ 140.9	
This Section Does Not Apply			
S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS		\$ 140.9	
This Section Does Not Apply			
S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS		\$ 140.9	
This Section Does Not Apply			
S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS		\$ 140.9	
This Section Does Not Apply			
T. UNMET LOAD HOURS			
This Section Does Not Apply			

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Project Name:	Westmore Oaks ES - Bldg F	NRCC-PRF-01-E	Page 17 of 23
Project Address:	1504 Fallbrook St West Sacramento 95691	Calculation Date/Time:	08/30, Tue, May 14, 2019
Compliance Scope:	NewComplete	Input File Name:	Westmore Bldg F T24.cibd16x

NRCC-PRF-ENV-DETAILS - SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS				Confirmed	
1.	2.	3.	4.	Pass	Fail
Surface Name	Surface Type	Description of Assembly Layers	Notes		
Slab On Grade7	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0		<input type="checkbox"/>	<input type="checkbox"/>
R-19 Wall9	ExteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, S 5in., R-19 Gypsum Board - 1/2 in.		<input type="checkbox"/>	<input type="checkbox"/>
R-30 Roof Attic13	Roof	Asphalt shingles - 1/4 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 3.5in., R-30 Gypsum Board - 1/2 in.		<input type="checkbox"/>	<input type="checkbox"/>

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)	
This Section Does Not Apply	

C. OPAQUE DOOR SUMMARY	
This Section Does Not Apply	

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance      Report Version: NRCC-PRF-01-E-08022018-5302      Report Generated at: 2019-05-14 08:31:32

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Project Address:	1504 Fallbrook St West Sacramento 95691	Calculation Date/Time:	08/30, Tue, May 14, 2019
Compliance Scope:	NewComplete	Input File Name:	Westmore Bldg F T24.cibd16x

Discrepancy between modeled and designed equipment sizing? (If "Yes", see Table F. "Additional Remarks" for an explanation)													No				
N. ECONOMIZER & FAN SYSTEMS SUMMARY <sup>1</sup>													\$ 140.4		Confirmed		
1.		2.		3.					4.					5.		Pass	Fail
Equip Name		Outside Air		Supply Fan					Return Fan					Economizer Type (if present)			
		CFM	CFM	HP	BHP	TSP (Inch WC)	Control	CFM	HP	BHP	TSP (Inch WC)	Control					
AC F-1		336	2000	0.250	0.250	0.48	ConstantVolume	NA	NA	NA	NA	NA	NA	FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC F-2		336	2000	0.250	0.250	0.48	ConstantVolume	NA	NA	NA	NA	NA	NA	FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC F-3		336	2000	0.250	0.250	0.48	ConstantVolume	NA	NA	NA	NA	NA	NA	FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC F-4		336	2000	0.250	0.250	0.48	ConstantVolume	NA	NA	NA	NA	NA	NA	FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC F-5		336	2000	0.250	0.250	0.48	ConstantVolume	NA	NA	NA	NA	NA	NA	FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC F-6		336	2000	0.250	0.250	0.48	ConstantVolume	NA	NA	NA	NA	NA	NA	FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC F-7		336	2000	0.250	0.250	0.48	ConstantVolume	NA	NA	NA	NA	NA	NA	FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC F-8		336	2000	0.250	0.250	0.48	ConstantVolume	NA	NA	NA	NA	NA	NA	FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC F-9		336	2000	0.250	0.250	0.48	ConstantVolume	NA	NA	NA	NA	NA	NA	FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC F-10		371	2000	0.250	0.250	0.48	ConstantVolume	NA	NA	NA	NA	NA	NA	FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
1. Mechanical equipment modeled and exhaust fans are sized to the 0.000 CFM-EACH-DUCTAL Section.																	

<sup>1</sup> Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section

O. EQUIPMENT CONTROLS		\$ 120.2		Confirmed	
1.		2.	3.	Pass	
Equip Name		Equip Type	Controls	Fail	
			No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery		
AC F-1		SZAC	No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	<input type="checkbox"/>	

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance      Report Version: NRCC-PRF-01-E-08022018-5302      Report Generated at: 2019-05-14 08:31:32

Project Name:	Westmore Oaks ES - Bldg F	NRCC-PRF-01-E	Page 13 of 23
Project Address:	1504 Fallbrook St West Sacramento 95691	Calculation Date/Time:	08/30, Tue, May 14, 2019
Compliance Scope:	New/Complete	Input File Name:	Westmore Bldg F T24.cibd16x

P. SYSTEM DISTRIBUTION SUMMARY		Dry System Distribution					\$ 120.4/ \$ 140.4(I)		Confirmed	
1.	2.	3.	4.	5.		6.	PASS	FAIL		
Equip Name	Equip Type	Duct Leakage and Sealing Required per 140.4(I)	Duct Leakage will be verified per NA1 and NA2	Insulation R-Value	Location	Status <sup>1</sup>				
AC F-8	SZAC	No	No	8	Unconditioned	N	<input type="checkbox"/>	<input type="checkbox"/>		
AC F-9	SZAC	No	No	8	Unconditioned	N	<input type="checkbox"/>	<input type="checkbox"/>		
AC F-10	SZAC	No	No	8	Unconditioned	N	<input type="checkbox"/>	<input type="checkbox"/>		

<sup>1</sup> Status: N - New, F - Existing

Does the Project Include Zonal Systems? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)		No
Does the Project Include a Solar Hot Water System? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)		No
Multifamily or Hotel/ Motel Occupancy? (If "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)		No

Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info) <sup>1</sup>						\$ 140.6	
						Confirmed	
1.	2.	3.	4.	5.		Pass	Fail
Occupancy Type <sup>1</sup>	Conditioned Floor Area <sup>2</sup> (ft <sup>2</sup> )	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance			
				Area Category Footnotes (Watts)	Tailored Method (Watts)		
Classrooms, Lecture, Training, Vocational Areas	8,055	5,895	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Corridors, Restrooms, Stairs, and Support Areas	2,473	1,697		0	0	<input type="checkbox"/>	<input type="checkbox"/>
Building Totals:	10,528	7,592	0	0	0		

<sup>1</sup> See Table 140.6-C

<sup>2</sup> See NRCC-LTI-01-E for unconditioned spaces

<sup>3</sup> Lighting information for existing spaces modeled is not included in the table

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Project Name:	Westmore Oaks ES - Bldg F	NRCC-PRF-01-E	Page 16 of 23
Project Address:	1504 Fallbrook St West Sacramento 95691	Calculation Date/Time:	08/30, Tue, May 14, 2019
Compliance Scope:	NewComplete	Input File Name:	Westmore Bldg F T24.cibd16x

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		\$ 10-103	
I certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation Author Name: Jason DeDora		Signature: 	
Company: LP Consulting Engineers, Inc.		Signature Date: 5/15/2019	
Address: LP Consulting Engineers Inc.		CEA Identification (If applicable): M34661	
City/State/Zip: 1209 Pleasant Grove Blvd Roseville CA			
Phone: 916.771.0778			
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I certify the following under penalty of perjury, under the laws of the State of California:			
1	I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.		
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.		
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.		
Responsible Envelope Designer Name:		Signature: _____	
Company: BCA Architecture		Date Signed: _____	
Address: 980 9th St. Suite 2050		Declaration Statement Type: _____	
City/State/Zip: Sacramento CA 95814		Title: _____	
Phone: 916.254.5600		License #: _____	
Responsible Lighting Designer Name: Ken Rubitsky		Signature: 	
Company: LP Consulting Engineers		Date Signed: 5/15/2019	
Address: 1209 Pleasant Grove Blvd		Declaration Statement Type: _____	
City/State/Zip: Roseville CA 95678		Title: _____	
Phone: 916.771.0778		License #: E11798	
Responsible Mechanical Designer Name: Jason DeDora		Signature: 	
Company: LP Consulting Engineers		Date Signed: 5/15/2019	
Address: 1209 Pleasant Grove Blvd		Declaration Statement Type: _____	
City/State/Zip: Roseville CA 95678		Title: _____	
Phone: 916.771.0778		License #: M34661	

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance      Report Version: NRCC-PRF-01-E-08022018-5302      Report Generated at: 2019-05-14 08:31:32

Project Name:	Westmore Oaks ES - Bldg F	NRCC-PRF-01-E	Page 9 of 23
Project Address:	1504 Fallbrook St West Sacramento 95691	Calculation Date/Time:	08/30, Tue, May 14, 2019
Compliance Scope:	NewComplete	Input File Name:	Westmore Bldg F T24.cibd16x

M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information)								\$ 110.1 / \$ 110.2		Confirmed		
Dry System Equipment <sup>1</sup> (Fan & Economizer info included below in Table N)												
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.		
Equip Name	Equip Type	System Type (Simple <sup>2</sup> or Complex <sup>3</sup> )	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtu/h)	Total Cooling Output (kBtu/h)	Efficiency		Acceptance Testing Required <sup>4</sup> (Y/N)	Status <sup>5</sup>	
								Cooling	Heating			
AC F-1	SZAC (Packaged3Phase)	Simple	1	54	No	0	53	SEER-16.00 / EER-9.95	AFUE-81.0	Yes	N	<input type="checkbox"/>
AC F-2	SZAC (Packaged3Phase)	Simple	1	54	No	0	53	SEER-16.00 / EER-9.95	AFUE-81.0	Yes	N	<input type="checkbox"/>
AC F-3	SZAC (Packaged3Phase)	Simple	1	54	No	0	53	SEER-16.00 / EER-9.95	AFUE-81.0	Yes	N	<input type="checkbox"/>
AC F-4	SZAC (Packaged3Phase)	Simple	1	54	No	0	53	SEER-16.00 / EER-9.95	AFUE-81.0	Yes	N	<input type="checkbox"/>
AC F-5	SZAC (Packaged3Phase)	Simple	1	54	No	0	53	SEER-16.00 / EER-9.95	AFUE-81.0	Yes	N	<input type="checkbox"/>
AC F-6	SZAC (Packaged3Phase)	Simple	1	54	No	0	53	SEER-16.00 / EER-9.95	AFUE-81.0	Yes	N	<input type="checkbox"/>
AC F-7	SZAC (Packaged3Phase)	Simple	1	54	No	0	53	SEER-16.00 / EER-9.95	AFUE-81.0	Yes	N	<input type="checkbox"/>
AC F-8	SZAC (Packaged3Phase)	Simple	1	54	No	0	53	SEER-16.00 / EER-9.95	AFUE-81.0	Yes	N	<input type="checkbox"/>
AC F-9	SZAC (Packaged3Phase)	Simple	1	54	No	0	53	SEER-16.00 / EER-9.95	AFUE-81.0	Yes	N	<input type="checkbox"/>
AC F-10	SZAC (Packaged3Phase)	Simple	1	54	No	0	53	SEER-16.00 / EER-9.95	AFUE-81.0	Yes	N	<input type="checkbox"/>







Project Name:	Westmore Oaks ES - Bldg G	NRCC-PRF-01-E	Page 5 of 24
Project Address:	1504 Fallbrook St West Sacramento 95691	Calculation Date/Time:	09:53, Tue, May 14, 2019
Compliance Scope:	NewComplete	Input File Name:	Westmore Bldg G T24.cbd16x
<b>H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE &amp; CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –</b> Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.			
Building Component	Compliance Forms (required for submittal)	Pass	Fail
Envelope	<input checked="" type="checkbox"/> NRCI-ENV-01-E - For all buildings	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-ENV-02-F- NRFC label verification for fenestration	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical	<input checked="" type="checkbox"/> NRCA-MCH-01-E - For all buildings with Mechanical Systems	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-02-A- Outdoor Air	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-03-A – Constant Volume Single Zone HVAC	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-04-H- Air Distribution Duct Leakage	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-05-A- Air Economizer Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-06-A- Demand Control Ventilation	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-07-A – Supply Fan Variable Flow Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-08-A- Valve Leakage Test	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-09-A – Supply Water Temp Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-10-A- Hydronic System Variable Flow Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-11-A – Auto Demand Shed Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-12-A- Packaged Direct Expansion Units	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-14-A- Distributed Energy Storage	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-15-A – Thermal Energy Storage	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-16-A- Supply Air Temp Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-17-A – Condensate Water Temp Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-MCH-18-A- Energy Management Controls Systems	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCV-MCH-04-H- Duct Leakage Test	<input type="checkbox"/>	<input type="checkbox"/>

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Project Name:	Westmore Oaks ES - Bldg G	NRCC-PRF-01-E	Page 8 of 24							
Project Address:	1504 Fallbrook St West Sacramento 95691	Calculation Date/Time:	09:53, Tue, May 14, 2019							
Compliance Scope:	New/Complete	Input File Name:	Westmore Bldg G T24.cbd16x							
J. FENESTRATION ASSEMBLY SUMMARY				§ 110.6		Confirmed				
1.	2.	3.	4.	5.	6.	7.	8.	9.		
Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method <sup>1</sup>	Assembly Method	Area ft²	Overall U-Factor	Overall SHGC	Overall VT	Percent Shaded <sup>2</sup>	Pass	Fail
Double Non Metal Tinted	VerticalFenestration FixedWindow NonMetalFraming	Default Performance	SiteBuilt	993	0.55	0.55	0.77	N	<input type="checkbox"/>	<input type="checkbox"/>
Double Non Metal Tinted Skylight	Skylight FixedWindow N/A	NRFC Rated	SiteBuilt	512	0.50	0.50	0.50	N	<input type="checkbox"/>	<input type="checkbox"/>
* Newly installed fenestration shall have a certified NRFC Label Certificate or use the CEE default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix Bldg and are used in the analysis.										
¹ Status: N - New, A - Altered, E - Existing										
Taking compliance credit for fenestration shading devices? (if "Yes", see NRCC-PRF-ENV-DETAILS for more information)										No
K. OPAQUE SURFACE ASSEMBLY SUMMARY				§ 120.7 § 140.3					Confirmed	
1.	2.	3.	4.	5.	6.	7.	8.	9.		
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	U-Factor	Percent Shaded <sup>2</sup>	Pass	Fail
Slab On Grade6	UndergroundFloor	10073	NA	0	NA	F-Factor: 0.730	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R-19 Wall8	ExteriorWall	5261	Wood	19	NA	U-Factor: 0.072	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R-30 Roof Attic13	Roof	10073	Wood	30	NA	U-Factor: 0.038	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R-19 Wall81	InteriorWall	48	Wood	19	NA	U-Factor: 0.069	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
¹ Status: N - New, A - Altered, E - Existing										
L. ROOFING PRODUCT SUMMARY				§ 140.3					Confirmed	
1.	2.	3.	4.	5.	6.	7.	8.	9.		
Product Type	Product Density (lb/ft³)	Aged Solar Reflectance	Thermal Emittance	SRI	Cool Roof Credit	Roofing Product Description	Pass	Fail		
R-30 Roof Attic13	5.895	0.08	0.75	NA	No	NA	<input type="checkbox"/>	<input type="checkbox"/>		

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Compliance Scope:	NewComplete	Input File Name:	Westmore Bldg G T24.cbd16x		
O. EQUIPMENT CONTROLS					
1.	2.	3.	§ 120.2	Confirmed	
Equip Name	Equip Type	Controls		Pass	Fail
AC G-3	SZAC	No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery		<input type="checkbox"/>	<input type="checkbox"/>
AC G-4	SZAC	No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery		<input type="checkbox"/>	<input type="checkbox"/>
AC G-5	SZAC	No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery		<input type="checkbox"/>	<input type="checkbox"/>
AC G-6	SZAC	No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery		<input type="checkbox"/>	<input type="checkbox"/>
AC G-7	SZAC	No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery		<input type="checkbox"/>	<input type="checkbox"/>
AC G-8	SZAC	No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery		<input type="checkbox"/>	<input type="checkbox"/>

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Compliance Scope:	NewComplete	Input File Name:	Westmore Bldg G T24.cbd16x				
<b>G. COMPLIANCE PATH &amp; CERTIFICATE OF COMPLIANCE SUMMARY</b>							
The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.		The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.					
Yes	NA	Prescriptive Requirement	Compliance Forms	Yes	NA	Mandatory Requirement	Compliance Forms
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Commissioning: §120.8 Simple Systems, Complex Systems	NRCC-CXR-01 / 02 / 03 / 05-E NRCC-CLK-01-E
<input type="checkbox"/>	<input type="checkbox"/>	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E	<input type="checkbox"/>	<input type="checkbox"/>	Electrical: §130.5	NRCC-ELC-01-E
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting (Sign) §140.8	NRCC-LTS-01-E	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solar Ready: §130.10	NRCC-SRA-01 / 02-E
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E

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<b>H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE &amp; CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –</b> Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.			
Building Component	Compliance Forms (required for submittal)	Pass	Fail
Covered Process	<input type="checkbox"/> NRCI-PLB-01-E - For all buildings with Plumbing Systems	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-01-F- Compressed Air Systems	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-02-F- Kitchen Exhaust	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-03-F- Garage Exhaust	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-07-F- Refrigerated Warehouse- Variable Speed Compressor	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	<input type="checkbox"/>	<input type="checkbox"/>

<b>I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)</b>			
1.	2.	3.	Confirmed
Total Conditioned Floor Area	9,912 ft <sup>2</sup>	5. Number of Floors Above Grade	1
Total Unconditioned Floor Area	161 ft <sup>2</sup>	6. Number of Floors Below Grade	0
Addition Conditioned Floor Area	0 ft <sup>2</sup>		
Addition Unconditioned Floor Area	0 ft <sup>2</sup>		
7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio
North Wall	1,325 ft <sup>2</sup>	243 ft <sup>2</sup>	18.3%
East Wall	2,145 ft <sup>2</sup>	565 ft <sup>2</sup>	26.3%
South Wall	175 ft <sup>2</sup>	0 ft <sup>2</sup>	00.0%
West Wall	1,380 ft <sup>2</sup>	185 ft <sup>2</sup>	13.4%
Total	5,025 ft <sup>2</sup>	993 ft <sup>2</sup>	19.8%
Roof	9,912 ft <sup>2</sup>	512 ft <sup>2</sup>	05.2%

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Compliance Scope:		New/Complete				Input File Name:		Westmore Bldg G T24.cbd16x									
N. ECONOMIZER & FAN SYSTEMS SUMMARY <sup>1</sup>										\$ 140.4		Confirmed					
1.		3.				2.				4.				5.		Pass	Fail
Equip Name		Outside Air				Supply Fan				Return Fan				Economizer Type (if present)			
	CFM	CFM	HP	BHP	TSP (Inch WC)	Control		CFM	HP	BHP	TSP (Inch WC)	Control					
AC G-1	455	3000	0.350	0.350	0.44	ConstantVolume		NA	NA	NA	NA	NA		FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC G-2	333	2000	0.250	0.250	0.48	ConstantVolume		NA	NA	NA	NA	NA		FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC G-3	336	2000	0.250	0.250	0.48	ConstantVolume		NA	NA	NA	NA	NA		FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC G-4	336	2000	0.250	0.250	0.48	ConstantVolume		NA	NA	NA	NA	NA		FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC G-5	336	2000	0.250	0.250	0.48	ConstantVolume		NA	NA	NA	NA	NA		FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC G-6	348	1600	0.200	0.200	0.40	ConstantVolume		NA	NA	NA	NA	NA		FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC G-7	327	2000	0.250	0.250	0.48	ConstantVolume		NA	NA	NA	NA	NA		FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC G-8	343	2000	0.250	0.250	0.48	ConstantVolume		NA	NA	NA	NA	NA		FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
AC G-9	147	2000	0.250	0.250	0.48	ConstantVolume		NA	NA	NA	NA	NA		FixedDryBulb	<input type="checkbox"/>	<input type="checkbox"/>	
<sup>1</sup> Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section																	
O. EQUIPMENT CONTROLS																	
1.		2.				3.				§ 120.2				Confirmed			
Equip Name		Equip Type				Controls				Pass				Fail			
AC G-1		SZAC				No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Heat Recovery				<input type="checkbox"/>				<input type="checkbox"/>			
AC G-2		SZAC				No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Heat Recovery				<input type="checkbox"/>				<input type="checkbox"/>			

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Compliance Scope:	NewComplete	Input File Name:	Westmore Bldg G T24.cbd16x
<b>G. COMPLIANCE PATH &amp; CERTIFICATE OF COMPLIANCE SUMMARY</b>			
Identify which building components use the performance or prescriptive path for compliance. "NA"= not in project			
For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.			
Building Component	Compliance Path	Compliance Forms (required for submittal)	Location of Mandatory Notes on Plans
Envelope	<input checked="" type="checkbox"/> Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	<input type="checkbox"/> Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
Mechanical	<input type="checkbox"/> NA		
	<input checked="" type="checkbox"/> Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
Domestic Hot Water	<input type="checkbox"/> Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	<input type="checkbox"/> NA		
Lighting (Indoor Conditioned)	<input type="checkbox"/> Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	<input type="checkbox"/> Prescriptive	NRCC-PLB-01-E	
Covered Process: Commercial Kitchens	<input type="checkbox"/> Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	<input type="checkbox"/> Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
Covered Process: Computer Rooms	<input type="checkbox"/> Performance	S2 (section of the NRCC-PRF-01-E)	
	<input type="checkbox"/> Prescriptive	NRCC-PRC-01/ 03-E	
Covered Process: Laboratory Exhaust	<input checked="" type="checkbox"/> NA		
	<input type="checkbox"/> Performance	S3 (section of the NRCC-PRF-01-E)	
	<input type="checkbox"/> Prescriptive	NRCC-PRC-01/ 04-E	
	<input checked="" type="checkbox"/> NA		
	<input type="checkbox"/> Performance	S4 (section of the NRCC-PRF-01-E)	
	<input type="checkbox"/> Prescriptive	NRCC-PRC-01/ 09-E	
	<input checked="" type="checkbox"/> NA		

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<b>H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE &amp; CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –</b> Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.			
Building Component	Compliance Forms (required for submittal)	Pass	Fail
Plumbing	<input type="checkbox"/> NRCI-PLB-01-E - For all buildings with Plumbing Systems	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCV-PLB-21-H - HERS verified central systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-STH-01-E - Any solar water heating	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCI-LTI-01-E - For all buildings	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	<input type="checkbox"/>	<input type="checkbox"/>
Indoor Lighting	<input type="checkbox"/> NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCI-LTI-02-A - Occupancy sensors and automatic time switch controls.	<input type="checkbox"/>	<input type="checkbox"/>
Outdoor Lighting	<input checked="" type="checkbox"/> NRCA-LTI-03-A - Automatic day/lighting controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-LTI-04-A - Demand responsive lighting controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-LTO-01-E - Outdoor Lighting	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-LTO-02-E - EMCS Lighting Control System	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-LTO-02-A - Outdoor Lighting Control	<input type="checkbox"/>	<input type="checkbox"/>
Sign Lighting	<input type="checkbox"/> NRCI-LTI-01-E – Sign Lighting	<input type="checkbox"/>	<input type="checkbox"/>
Electrical	<input type="checkbox"/> NRCI-ELC-01-E - Electrical Power Distribution	<input type="checkbox"/>	<input type="checkbox"/>
Photovoltaic	<input type="checkbox"/> NRCI-SPV-01-E Photovoltaic Systems	<input type="checkbox"/>	<input type="checkbox"/>



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R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E) <sup>1</sup>							\$ 130.0	
Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft <sup>2</sup> in offices)							Confirmed	
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined		Total Number Luminaires	Installed Watts	Pass	Fail
			CFC Default from NA8	According to §130.0(c)				
B2	4" Wall Mtd LED Fixture B2	26	Yes	No	11	286	<input type="checkbox"/>	<input type="checkbox"/>
C1	4" Wall Mtd LED Linear Fixture C1	26	No	Yes	2	52	<input type="checkbox"/>	<input type="checkbox"/>
C2	4" Wall Mtd LED Linear Fixture C2	41	Yes	No	1	41	<input type="checkbox"/>	<input type="checkbox"/>
D1	LED Downlight Recessed Can D1	20	Yes	No	9	180	<input type="checkbox"/>	<input type="checkbox"/>
D3	LED Downlight Recessed Can D3	42	Yes	No	25	1,050	<input type="checkbox"/>	<input type="checkbox"/>
E1	8" Susp LED Linear Fixture E1	74	Yes	No	7	518	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup>If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES		\$ 140.9			
This Section Does Not Apply					
S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS		\$ 140.9			
This Section Does Not Apply					
S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS		\$ 140.9			
This Section Does Not Apply					
S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS		\$ 140.9			
This Section Does Not Apply					
T. UNMET LOAD HOURS					
Thermal Zone Name	Cooling Unmet Load Hour Limit for Thermal Zone	Proposed Cooling Unmet Load Hours	Heating Unmet Load Hour Limit for Thermal Zone	Proposed Heating Unmet Load Hours	
12-Office <= 250 sqft	150	332	150	653.25	

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NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS				Confirmed	
1.	2.	3.	4.	Pass	Fail
Surface Name	Surface Type	Description of Assembly Layers	Notes		
Slab On Grade6	Underground/Floor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0		<input type="checkbox"/>	<input type="checkbox"/>
R-19 Wall8	ExteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5 Sin., R-19 Gypsum Board - 1/2 in.		<input type="checkbox"/>	<input type="checkbox"/>
R-30 Roof Attic13	Roof	Asphalt shingles - 3/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 3 Sin., R-30 Gypsum Board - 1/2 in.		<input type="checkbox"/>	<input type="checkbox"/>
R-19 Wall81	InteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5 Sin., R-19 Gypsum Board - 1/2 in.		<input type="checkbox"/>	<input type="checkbox"/>

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)	
This Section Does Not Apply	
C. OPAQUE DOOR SUMMARY	
This Section Does Not Apply	

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B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY											\$ 140.4	
											Confirmed	
1.	2.	3.	4.	5.	6.	7.			8.			
System ID	System Type	Qty	Rated Capacity (kBtu/h)		Economizer	Zone Name	Airflow (cfm)			Fan		
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor
5-Classroom Lecture Train-Trm	Uncontrolled	1	NA	NA	NA	5-Classroom Lecture Train	2000	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
7-Corridor/Restroom/Support-Trm	Uncontrolled	1	NA	NA	NA	7-Corridor/Restroom/Support	1600	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
8-Classroom Lecture Train-Trm	Uncontrolled	1	NA	NA	NA	8-Classroom Lecture Train	2000	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
10-Commercial Industrial St-Trm	Uncontrolled	1	NA	NA	NA	10-Commercial Industrial St	150	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
9-Classroom Lecture Train-Trm	Uncontrolled	1	NA	NA	NA	9-Classroom Lecture Train	1850	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
13-Corridor/Restroom/Support-Trm	Uncontrolled	1	NA	NA	NA	13-Corridor/Restroom/Support	145	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
12-Office <= 250 sqft-Trm	Uncontrolled	1	NA	NA	NA	12-Office <= 250 sqft	272	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
11-Office > 250 sqft-Trm	Uncontrolled	1	NA	NA	NA	11-Office > 250 sqft	1583	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>

C. EXHAUST FAN SUMMARY	
This Section Does Not Apply	
D. DHW EQUIPMENT SUMMARY – (Adapted from NRCC-PLB-01)	
This Section Does Not Apply	
E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS	
This Section Does Not Apply	

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Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info) <sup>1</sup>								\$ 140.6	
								Confirmed	
1.	2.	3.	4.	5.				Pass	Fail
Occupancy Type <sup>1</sup>	Conditioned Floor Area <sup>2</sup> (ft <sup>2</sup> )	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance					
				Area Category Footnotes (Watts)	Tailored Method (Watts)			<input type="checkbox"/>	<input type="checkbox"/>
Classrooms, Lecture, Training, Vocational Areas	6,542	5,119	0	0	0			<input type="checkbox"/>	<input type="checkbox"/>
Corridors, Restrooms, Stairs, and Support Areas	2,391	1,725	0	0	0			<input type="checkbox"/>	<input type="checkbox"/>
Commercial and Industrial Storage Areas (Conditioned or unconditioned)	72	26	0	0	0			<input type="checkbox"/>	<input type="checkbox"/>
Office (Greater than 250 square feet in floor area)	774	605	0	0	0			<input type="checkbox"/>	<input type="checkbox"/>
Office (250 square feet in floor area or less)	133	118	0	0	0			<input type="checkbox"/>	<input type="checkbox"/>
Building Totals:	9,912	7,593	0	0	0				

<sup>1</sup> See Table 140.6.C  
<sup>2</sup> See NRCC-LTI-01-E for unconditioned spaces  
<sup>3</sup> Lighting information for existing spaces modeled is not included in the table

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E) <sup>1</sup>								\$ 130.0	
Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft <sup>2</sup> in offices)								Confirmed	
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined		Total Number Luminaires	Installed Watts	Pass	Fail	
			CFC Default from NA8	According to §130.0(c)					
A1	2x4 Recessed LED Troffer A1	59	Yes	No	65	3,835	<input type="checkbox"/>	<input type="checkbox"/>	
A2	2x2 Recessed LED Troffer A2	50	Yes	No	6	300	<input type="checkbox"/>	<input type="checkbox"/>	
A3	2x4 Recessed LED Troffer A3	48	Yes	No	27	1,296	<input type="checkbox"/>	<input type="checkbox"/>	
B1	4" Wall Mtd LED Linear Fixture B1	35	Yes	No	1	35	<input type="checkbox"/>	<input type="checkbox"/>	

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		\$ 10-103
I certify that this Certificate of Compliance documentation is accurate and complete.		
Documentation Author Name: Jason DeDora		
Company: LP Consulting Engineers, Inc.		
Address: LP Consulting Engineers Inc.		
City/State/Zip: 1209 Pleasant Grove Blvd Roseville CA		
Phone: 916.771.0778		
Signature: [Signature]		
Signature Date: 5/15/2019		
CEA Identification (if applicable): M34661		
RESPONSIBLE PERSON'S DECLARATION STATEMENT		
I certify the following under penalty of perjury, under the laws of the State of California:		
1	I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.	
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.	
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.	
Responsible Envelope Designer Name:		
Company: BCA Architecture		
Address: 980 9th St. Suite 2050		
City/State/Zip: Sacramento CA 95814		
Phone: 916.254.5600		
Title: License #:		
Responsible Lighting Designer Name: Ken Rubitsky		
Company: LP Consulting Engineers		
Address: 1209 Pleasant Grove Blvd		
City/State/Zip: Roseville CA 95678		
Phone: 916.771.0778		
Title: License #: E11798		
Responsible Mechanical Designer Name: Jason DeDora		
Company: LP Consulting Engineers		
Address: 1209 Pleasant Grove Blvd		
City/State/Zip: Roseville CA 95678		
Phone: 916.771.0778		
Title: License #: M34661		

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A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)																		Confirmed								
1. DESIGN AIR FLOWS																										
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN TERTIARY AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	DOCS CONTROL (V/N)	VENT SYSTEM ID	CONTINUED AREA (ft <sup>2</sup> )	MIN. VENT PER AREA (CFM/ft <sup>2</sup> )	DESIGN MIN. OF PEOPLE (CFM/PERSON)	MIN. VENT PER PERSON (CFM/PERSON)	RECD VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	Operable Window Interlock § 104.4(i) (V/N)	Pass	Fail								
12-Office <= 250 sqft	AC-G-9	272	NA	NA	NA	N	AC-G-9	133	NA	0.67	30.00	20	20	NA	N	NA	<input type="checkbox"/>	<input type="checkbox"/>								
2-Classroom Lecture Train-Trm	AC-G-9	145	NA	NA	NA	N	AC-G-9	71	NA	0.35	30.00	11	11	NA	N	NA	<input type="checkbox"/>	<input type="checkbox"/>								
TOTAL																		9,912		180.12	2,961	2,961	NA		<input type="checkbox"/>	<input type="checkbox"/>

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY																		\$ 140.4	
																		Confirmed	
1.	2.	3.	4.	5.	6.	7.			8.										
System ID	System Type	Qty	Rated Capacity (kBtu/h)		Economizer	Zone Name	Airflow (cfm)			Fan									
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor							
1-Classroom Lecture Train-Trm	Uncontrolled	1	NA	NA	NA	1-Classroom Lecture Train	3000	NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>						
2-Classroom Lecture Train-Trm	Uncontrolled	1	NA	NA	NA	2-Classroom Lecture Train	2000	NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>						
3-Classroom Lecture Train-Trm	Uncontrolled	1	NA	NA	NA	3-Classroom Lecture Train	2000	NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>						
4-Classroom Lecture Train-Trm	Uncontrolled	1	NA	NA	NA	4-Classroom Lecture Train	2000	NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>						

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O. EQUIPMENT CONTROLS			\$ 120.2	Confirmed
1.	2.	3.	Pass	Fail
Equip Name	Equip Type	Controls		
AC-G-9	SZAC	No DCV Controls Fixed Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	<input type="checkbox"/>	<input type="checkbox"/>

P. SYSTEM DISTRIBUTION SUMMARY						\$ 120.4/ § 140.4(i)		
						Confirmed		
1.	2.	3.	4.	5.		6.	Pass	Fail
Equip Name	Equip Type	Duct Leakage and Sealing Required per 140.4(i)	Duct Leakage will be verified per NA1 and NA2	Ducts		Status <sup>1</sup>		
				Insulation R-Value	Location			
AC-G-1	SZAC	No	No	8	Unconditioned	N	<input type="checkbox"/>	<input type="checkbox"/>
AC-G-2	SZAC	No	No	8	Unconditioned	N	<input type="checkbox"/>	<input type="checkbox"/>
AC-G-3	SZAC	No	No	8	Unconditioned	N	<input type="checkbox"/>	<input type="checkbox"/>
AC-G-4	SZAC	No	No	8	Unconditioned	N	<input type="checkbox"/>	<input type="checkbox"/>
AC-G-5	SZAC	No	No	8	Unconditioned	N	<input type="checkbox"/>	<input type="checkbox"/>
AC-G-6	SZAC	No	No	8	Unconditioned	N	<input type="checkbox"/>	<input type="checkbox"/>
AC-G-7	SZAC	No	No	8	Unconditioned	N	<input type="checkbox"/>	<input type="checkbox"/>
AC-G-8	SZAC	No	No	8	Unconditioned	N	<input type="checkbox"/>	<input type="checkbox"/>
AC-G-9	SZAC	No	No	8	Unconditioned	N	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup> Status is: New, In-Service

Does the Project Include Zonal Systems? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)		No
Does the Project Include a Solar Hot Water System? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)		No
Multifamily or Hotel/ Motel Occupancy? (If "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)		No

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U. ENERGY USE SUMMARY						
Energy Component	Standard Design Site (MMBtu)	Proposed Design Site (MMBtu)	Margin (MMBtu)	Standard Design Site (MMBtu)	Proposed Design Site (MMBtu)	Margin (MMBtu)
Space Heating	--	--	--	74.5	104.6	-30.1
Space Cooling	17.2	13.6	3.6	--	--	--
Indoor Fans	28.5	9.4	19.1	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	49.7	49.7	0.0
Indoor Lighting	20.5	15.5	5.0	--	--	--
COMPLIANCE TOTAL	66.2	38.5	27.7	124.2	154.3	-30.1
Receptacle	22.2	22.2	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	88.4	60.7	27.7	124.2	154.3	-30.1

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NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)																		Confirmed	
1. DESIGN AIR FLOWS																			
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN TERTIARY AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	DOCS CONTROL (V/N)	VENT SYSTEM ID	CONTINUED AREA (ft <sup>2</sup> )	MIN. VENT PER AREA (CFM/ft <sup>2</sup> )	DESIGN MIN. OF PEOPLE (CFM/PERSON)	MIN. VENT PER PERSON (CFM/PERSON)	RECD VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	Operable Window Interlock § 104.4(i) (V/N)	Pass	Fail	
1-Classroom Lecture Train	AC-G-1	3,000	NA	NA	NA	N	AC-G-1	1,212	NA	30.30	15.00	455	455	NA	N	NA	<input type="checkbox"/>	<input type="checkbox"/>	
2-Classroom Lecture Train	AC-G-2	2,000	NA	NA	NA	N	AC-G-2	888	NA	22.20	15.00	333	333	NA	N	NA	<input type="checkbox"/>	<input type="checkbox"/>	
3-Classroom Lecture Train	AC-G-3	2,000	NA	NA	NA	N	AC-G-3	895	NA	22.38	15.00	336	336	NA	N	NA	<input type="checkbox"/>	<input type="checkbox"/>	
4-Classroom Lecture Train	AC-G-4	2,000	NA																



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Note: All applicable spaces are listed under the Non-Rectangular Spaces table

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)						
1.	2.	3.	4.	Allowed Watts	Pass	Fail
Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise	0	<input type="checkbox"/>	<input type="checkbox"/>

5. Wall Display
This Section Does Not Apply

6. Floor Display and Task Lighting
This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting
This Section Does Not Apply

8. Very Valuable Merchandise
This Section Does Not Apply

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E)							\$ 130.6
Declaration of Required Acceptance Certificates (NRCA) –Acceptance Certificates that must be verified in the field. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).							
Test Description		Indoor				Outdoor	Confirmed
		NRCA-LTI-02-A	NRCA-LTI-03-A	NRCA-LTI-04-A	NRCA-LTO-02-A		
Equipment Requiring Testing or Verification	# of units	Occ Sensors / Auto Time Switch	Auto Daylight	Demand Responsive	Outdoor Controls	Pass	Fail
Occupant Sensors	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Automatic Time Switch	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Automatic Daylighting	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Demand Responsive	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outdoor Controls	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Compliance Scope:	NewComplete	Input File Name:	Westmore Bldg M T24.cbd16x

A. PROJECT GENERAL INFORMATION					
1. Project Location (city)	West Sacramento	8. Standards Version	Compliance2016		
2. CA Zip Code	95691	9. Compliance Software (version)	EnergyPro 7.2		
3. Climate Zone	12	10. Weather File	SACRAMENTO-EXECUTIVE_T24830_CZ2010.epw		
4. Total Conditioned Floor Area in Scope	1,144 ft <sup>2</sup>	11. Building Orientation (deg)	(N) 0 deg		
5. Total Unconditioned Floor Area	47 ft <sup>2</sup>	12. Permitted Scope of Work	NewComplete		
6. Total # of Stories (Habitable Above Grade)	1	13. Building Type(s)	Nonresidential		
7. Total # of dwelling units	0	14. Gas Type	NaturalGas		

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft <sup>2</sup> -yr)					
BUILDING COMPLIES					
1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard	
Space Heating	1.66	5.95	-4.29	-258.4%	
Space Cooling	69.12	56.04	13.08	18.9%	
Indoor Fans	68.97	24.18	44.79	64.9%	
Heat Rejection	--	--	--	--	
Pumps & Misc.	--	--	--	--	
Domestic Hot Water	0.73	0.73	--	0.0%	
Indoor Lighting	117.01	74.74	42.27	36.1%	
COMPLIANCE TOTAL	257.49	161.64	95.85	37.2%	
Receptacle	141.68	141.68	0.0	0.0%	
Process	143.38	143.38	0.0	0.0%	
Other Ltg	--	--	--	--	
Process Motors	--	--	--	--	
TOTAL	542.55	446.70	95.9	17.7%	

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY			
The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.		The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.	
Yes	NA	Prescriptive Requirement	Compliance Forms
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting (Sign) §140.8	NRCC-LTS-01-E
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E

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#### NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E)	§ 140.6
This Section Does Not Apply	

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E)	§ 130.1
This Section Does Not Apply	

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E)	§ 140.6
General lighting power (see Table D)	
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0
Total watts	0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E)	§ 140.6-D
This Section Does Not Apply	

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E)							§ 140.6(c) 3H	
Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed	
							Pass	Fail
NA	NA	NA	NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>

Note: Selected Method for Special Function Areas is not currently implemented

F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)						
Rectangular Spaces						
Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Confirmed
NA	NA	NA	NA	NA	NA	Pass Fail
						<input type="checkbox"/> <input type="checkbox"/>
Non-Rectangular Spaces						
This Section Does Not Apply						

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ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL		ENV-MM
Project Name	Westmore Oaks ES - Bldg G	Date
DESCRIPTION		5/15/2019
Building Envelope Measures:		
§110.8(a): Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.		
§110.8(c): All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.		
§110.8(g): Heated slab floors shall be insulated according to the requirements in Table 110.8-A.		
§110.7(a): All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weathertight or otherwise sealed.		
§110.6(a): Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft <sup>2</sup> of window area, 0.3 cfm/ft <sup>2</sup> of door area for residential doors, 0.3 cfm/ft <sup>2</sup> of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft <sup>2</sup> for nonresidential double doors (swinging).		
§110.6(a): Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.		
§110.6(a): Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.		
§110.6(b): Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).		
The opaque portions of the roof/ceiling that separates conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows:		
§120.7(a): Metal Building- The weighted average U-factor of the roof assembly shall not exceed 0.098.		
Wood Framed and Others- The weighted average U-factor of the roof assembly shall not exceed 0.075.		
The opaque portions of walls that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor as follows:		
Metal Building- The weighted average U-factor of the wall assembly shall not exceed 0.113.		
Metal Framed- The weighted average U-factor of the wall assembly shall not exceed 0.151.		
Light Mass Walls- A 6 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.440.		
Heavy Mass Walls- An 8 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.600.		
§120.7(b): Wood Framed and Others- The weighted average U-factor of the wall assembly shall not exceed 0.110.		
Spandrel Panels and Opaque Curtain Wall- The weighted average U-factor of the spandrel panels and opaque curtain wall assembly shall not exceed 0.280.		
Demising Walls- The opaque portions of framed demising walls shall meet the requirements of Item A or B below:		
A. Wood framed walls shall be insulated to meet a U-factor not greater than 0.099.		
B. Metal Framed walls shall be insulated to meet a U-factor not greater than 0.151.		
The opaque portions of floors and soffits that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows:		
§120.7(c): Raised Mass Floors- Shall have a minimum of 3 inches of lightweight concrete over a metal deck or the weighted average U-factor of the floor assembly shall not exceed 0.269.		
Other Floors- The weighted average U-factor of the floor assembly shall not exceed 0.071.		

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F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)
This Section Does Not Apply

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2016-NRCC-MCH-01-E)														§ RA4
Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).														
Test Description	# of units	MCH-00A	MCH-00A	MCH-00A	MCH-00A	MCH-00A	MCH-00A	MCH-00A	MCH-00A	MCH-00A	MCH-00A	MCH-00A	MCH-00A	Confirmed
Equipment Requiring Testing or Verification		Outdoor Air	Single Zone Unitary	Air Duct Ducts	Economizer Controls	DDV	Supply Fan VAV	Valve Leakage	Supply Water Temp. Reset	Heat Rejection Flow Control	Air Demand Shield Control	FDD for DX Units	Airside DO for Air & DX AC	Zone
AC G-1	1	X	X	-	X	-	-	-	-	-	-	X	-	<input type="checkbox"/>
AC G-2	1	X	X	X	X	-	-	-	-	-	-	X	-	<input type="checkbox"/>
AC G-3	1	X	X	X	X	-	-	-	-	-	-	X	-	<input type="checkbox"/>
AC G-4	1	X	X	X	X	-	-	-	-	-	-	X	-	<input type="checkbox"/>
AC G-5	1	X	X	X	X	-	-	-	-	-	-	X	-	<input type="checkbox"/>
AC G-6	1	X	X	X	X	-	-	-	-	-	-	X	-	<input type="checkbox"/>
AC G-7	1	X	X	X	X	-	-	-	-	-	-	X	-	<input type="checkbox"/>
AC G-8	1	X	X	X	X	-	-	-	-	-	-	X	-	<input type="checkbox"/>
AC G-9	1	X	X	X	X	-	-	-	-	-	-	X	-	<input type="checkbox"/>

<b>H. EVAPORATIVE COOLER SUMMARY</b>
This Section Does Not Apply

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C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)	
1st Indoor Fans: Check envelope and mechanical	<div>Compliance Margin By Energy Component (from Table B column 4)</div> <div>Indoor Fans Indoor Lighting Space Cooling Heat Rejection Pumps &amp; Misc. Domestic Hot Water Space Heating</div> <div>Penalty Energy Credit</div>
2nd Indoor Lighting: Check lighting	
3rd Space Cooling: Check envelope and mechanical	
4th Heat Rejection: Check envelope and mechanical	
5th Pumps & Misc.: Check mechanical	
6th Domestic Hot Water: Check mechanical	
7th Space Heating: Check envelope and mechanical	

D. EXCEPTIONAL CONDITIONS
The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

E. HERS VERIFICATION
This Section Does Not Apply

F. ADDITIONAL REMARKS
None Provided

DSA STAMP

BCA

architecture  
planning  
interiors

BCA Architects  
980 9th St, Suite 2050  
Sacramento, California 95814  
[ T ] 916.254.5600  
www.BCAarchitects.com

LP

CONSULTING ENGINEERS

1209 Pleasant Grove Blvd.  
Roseville, CA 95678  
p 916-771-0778

MEP & FS / Sustainability / C&A

www.lpenginers.com  
Job #: 19-2007

ARCHITECT

ENGINEER

LICENCED ARCHITECT

STATE OF CALIFORNIA

No. C. 30345  
Ren.: 9/30/19

REGISTERED PROFESSIONAL ENGINEER

STATE OF CALIFORNIA

M 44689  
REN 12/31/16

GENERAL NOTES

1. This sheet is part of a set and is not to be used alone.  
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction.  
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.  
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NO.	REMARKS	DATE

DRAWING STATUS	DATE
<input checked="" type="radio"/> DSA PLAN CHECK	05/20/2019
<input type="radio"/> DSA BACK CHECK	
<input type="radio"/> BIDDING	
<input type="radio"/> CONSTRUCTION	

#### KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

#### DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

#### TITLE 24 COMPLIANCE FORMS

Date  
05/20/2019

Scale

Drawn  
Author

Project Number  
19003

Drawing Number

Checked  
Checker

T24.6

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**H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) --**  
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).  
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Confirmed

Building Component	Compliance Forms (required for submittal)	Pass	Fail
Covered Process	<input type="checkbox"/> NRCI-PRC-01-E Covered Processes	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-03-F: Compressed Air Systems	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-03-F: Kitchen Exhaust	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-03-F: Garage Exhaust	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-04-F: Refrigerated Warehouse- Evaporator Fan Motor Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-05-F: Refrigerated Warehouse- Evaporator Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-06-F: Refrigerated Warehouse- Air Cooled Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-07-F: Refrigerated Warehouse- Variable Speed Compressor	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-08-F: Electrical Resistance Underlab Heating System	<input type="checkbox"/>	<input type="checkbox"/>

**1. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)**

1. Total Conditioned Floor Area	1,144 ft <sup>2</sup>	5. Number of Floors Above Grade	1	Confirmed	
2. Total Unconditioned Floor Area	47 ft <sup>2</sup>	6. Number of Floors Below Grade	0		
3. Addition Conditioned Floor Area	0 ft <sup>2</sup>				
4. Addition Unconditioned Floor Area	0 ft <sup>2</sup>				
<b>7. Opaque Surfaces &amp; Orientation</b>		<b>8. Total Gross Surface Area</b>	<b>9. Total Fenestration Area</b>	<b>10. Window to Wall Ratio</b>	
North Wall	288 ft <sup>2</sup>	0 ft <sup>2</sup>	0.0%	<input type="checkbox"/>	<input type="checkbox"/>
East Wall	261 ft <sup>2</sup>	0 ft <sup>2</sup>	0.0%	<input type="checkbox"/>	<input type="checkbox"/>
South Wall	0 ft <sup>2</sup>	0 ft <sup>2</sup>	0.0%	<input type="checkbox"/>	<input type="checkbox"/>
West Wall	0 ft <sup>2</sup>	0 ft <sup>2</sup>	0.0%	<input type="checkbox"/>	<input type="checkbox"/>
Total	549 ft <sup>2</sup>	0 ft <sup>2</sup>	0.0%	<input type="checkbox"/>	<input type="checkbox"/>
Roof	1,144 ft <sup>2</sup>	0 ft <sup>2</sup>	0.0%	<input type="checkbox"/>	<input type="checkbox"/>

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**Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info)<sup>1</sup>**

Confirmed

1.	2.	3.	4.	5.	Pass	Fail
Occupancy Type <sup>1</sup>	Conditioned Floor Area <sup>2</sup> (ft <sup>2</sup> )	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance Area Category Footnotes (Watts) Tailored Method (Watts)		
Corridors, Restrooms, Stairs, and Support Areas	143	93	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Commercial and Industrial Storage Areas (conditioned or unconditioned)	102	84	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Kitchen, Commercial Food Preparation	899	606	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Building Totals:	1,144	783	0	0	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup> See Table 140B.6-C.  
<sup>2</sup> See NRCC-LTI-01-E for unconditioned spaces.  
<sup>3</sup> Lighting information for existing spaces modeled is not included in the table.

**R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)<sup>1</sup>**

Confirmed

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft <sup>2</sup> in offices)		Installed Watts (Conditioned)				Pass	Fail
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined CEC Default from NAB According to §130.0(c)	Total Number Luminaires	Installed Watts		
A4	2x4 Recessed LED Troffer A4	58	Yes No	9	522	<input type="checkbox"/>	<input type="checkbox"/>
A5	2x2 Recessed LED Troffer A5	42	Yes No	4	168	<input type="checkbox"/>	<input type="checkbox"/>
B2	1x4 Surface Mtd LED Linear Fixture B2	26	Yes No	2	52	<input type="checkbox"/>	<input type="checkbox"/>
C2	4' Wall Mtd LED Linear Fixture C2	41	Yes No	1	41	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup> Lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

<b>S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES</b>		<b>\$ 140.9</b>
This Section Does Not Apply		

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**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

\$ 10-103

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jason DeDora  
Company: LP Consulting Engineers, Inc.  
Address: LP Consulting Engineers Inc.  
City/State/Zip: 1209 Pleasant Grove Blvd Roseville CA  
Phone: 916.771.0778

Signature:

Signature Date: 5/15/2019  
CEA Identification (if applicable): M34661

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

1. I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.

2. I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

3. I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name:  
Company: BCA Architecture  
Address: 980 9th St. Suite 2050  
City/State/Zip: Sacramento CA 95814  
Phone: 916.254.5600

Signature:

Date Signed: 5/15/2019  
Declaration Statement Type:  
Title:  
License #: E11798

Responsible Lighting Designer Name: Ken Rubitsky  
Company: LP Consulting Engineers  
Address: 1209 Pleasant Grove Blvd  
City/State/Zip: Roseville CA 95678  
Phone: 916.771.0778

Signature:

Date Signed: 5/15/2019  
Declaration Statement Type:  
Title:  
License #: E11798

Responsible Mechanical Designer Name: Jason DeDora  
Company: LP Consulting Engineers  
Address: 1209 Pleasant Grove Blvd  
City/State/Zip: Roseville CA 95678  
Phone: 916.771.0778

Signature:

Date Signed: 5/15/2019  
Declaration Statement Type:  
Title:  
License #: M34661

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**H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) --**  
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).  
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Confirmed

Building Component	Compliance Forms (required for submittal)	Pass	Fail
Plumbing	<input type="checkbox"/> NRCL-PLB-01-E - For all buildings with Plumbing Systems	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-PLB-23-H - HERS verified central systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-STH-01-E - Any solar water heating	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-LTI-01-E - For all buildings	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	<input type="checkbox"/>	<input type="checkbox"/>
Indoor Lighting	<input type="checkbox"/> NRCL-LTI-02-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-LTI-06-E - Additional wattage installed in a video conferencing studio	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-LTI-02-A - Occupancy sensors and automatic time switch controls.	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-LTI-03-A - Automatic daylighting controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-LTI-04-A - Demand responsive lighting controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-LTD-01-E - Outdoor Lighting	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-LTD-02-E - EMCS Lighting Control System	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-LTD-02-A - Outdoor Lighting Control	<input type="checkbox"/>	<input type="checkbox"/>
Outdoor Lighting	<input type="checkbox"/> NRCL-LTS-01-E - Sign Lighting	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-LTS-01-E - Sign Lighting	<input type="checkbox"/>	<input type="checkbox"/>
Electrical	<input type="checkbox"/> NRCL-ELC-01-E - Electrical Power Distribution	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-SPV-01-E Photovoltaic Systems	<input type="checkbox"/>	<input type="checkbox"/>

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**Discrepancy between modeled and designed equipment sizing? (If "Yes", see Table F, "Additional Remarks" for an explanation)**

No

**N. ECONOMIZER & FAN SYSTEMS SUMMARY<sup>1</sup>**

Confirmed

1.	2.	3.	4.	5.	Pass	Fail
Equip Name	Outside Air	Supply Fan	Return Fan	Economizer Type (if present)		
	CFM	HP BHP TSP (Inch WC)	Control	CFM HP BHP TSP (Inch WC) Control		
AC M-1	172	1200 0.200 0.200 0.53	ConstantVolume	NA NA NA NA NA	NoEconomizer	<input type="checkbox"/>

<sup>1</sup> Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section

<b>Q. EQUIPMENT CONTROLS</b>		<b>\$ 120.2</b>	Confirmed	
1.	2.	3.	Pass	Fail
Equip Name	Equip Type	Controls		
AC M-1	SZAC	No DCV Controls No Economizer No Supply Air Temp. Control No Optimism Start No Evaporative Cooler No Heat Recovery	<input type="checkbox"/>	<input type="checkbox"/>

<b>P. SYSTEM DISTRIBUTION SUMMARY</b>		<b>\$ 120.4 / \$ 140.4(i)</b>	Confirmed					
1.	2.	3.	4.	5.	6.	Pass	Fail	
Equip Name	Equip Type	Duct Leakage and Sealing Required per 140.4(i)	Duct Leakage will be verified per NA1 and NA2	Insulation R-Value Location	Status <sup>1</sup>			
AC M-1	SZAC	No	No	8	Unconditioned	N	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup> Status: N - New, A - Altered, E - Existing

Does the Project include Zonal Systems? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Does the Project include a Solar Hot Water System? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Multifamily or Hotel/ Motel Occupancy? (If "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)	No

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**U. ENERGY USE SUMMARY**

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Receptacle	7.1	7.1	0.0	--	--	--
Process	7.9	7.9	0.0	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	26.8	21.1	5.7	1.7	4.6	-2.9

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See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Confirmed

Building Component	Compliance Forms (required for submittal)	Pass	Fail
Envelope	<input type="checkbox"/> NRCL-ENV-01-E - For all buildings	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-ENV-02-F: NRRC label verification for fenestration	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCL-MCH-01-E - For all buildings with Mechanical Systems	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-02-A- Outdoor Air	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-03-A - Constant Volume Single Zone HVAC	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-04-H- Air Distribution Duct Leakage	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-05-A- Air Economizer Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-06-A- Demand Control Ventilation	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-07-A - Supply Fan Variable Flow Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-08-A- Valve Leakage Test	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical	<input type="checkbox"/> NRCA-MCH-09-A - Supply Water Temp Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-10-A- Hydronic System Variable Flow Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-11-A - Auto Demand Shed Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-12-A- Packaged Direct Expansion Units	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-14-A- Distributed Energy Storage	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-15-A - Thermal Energy Storage	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-16-A- Supply Air Temp Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-17-A - Condensate Water Temp Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-MCH-18-A- Energy Management Controls Systems	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> NRCL-MCH-04-H- Duct Leakage Test	<input type="checkbox"/>	<input type="checkbox"/>	

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**J. FENESTRATION SUMMARY**

This Section Does Not Apply

**K. OPAQUE SURFACE ASSEMBLY SUMMARY**

\$ 120.7 / \$ 140.3

Confirmed

1.	2.	3.	4.	5.	6.	7.	8.	Pass	Fail
Surface Name	Surface Type	Area (ft <sup>2</sup> )	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	Status <sup>1</sup>		
Slab On Grade7	UndergroundFloor	1191	NA	0	NA	F-Factor: 0.730	N	<input type="checkbox"/>	<input type="checkbox"/>
R-19 Wall9	ExteriorWall	685	Wood	19	NA	U-Factor: 0.072	N	<input type="checkbox"/>	<input type="checkbox"/>
R-30 Roof Attic11	Roof	1191	Wood	30	NA	U-Factor: 0.038	N	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup> Status: N - New, A - Altered, E - Existing

<b>L. ROOFING PRODUCT SUMMARY</b>		<b>\$ 140.3</b>	Confirmed					
1.	2.	3.	4.	5.	6.	7.	Pass	Fail
Product Type	Product Density (lb/ft <sup>3</sup> )	Aged Solar Reflectance	Thermal Emittance	SRI	Cool Roof Credit	Roofing Product Description		
R-30 Roof Attic11	5.895	0.08	0.75	NA	No	NA	<input type="checkbox"/>	<input type="checkbox"/>

<b>M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information)</b>		<b>\$ 110.1 / \$ 110.2</b>	Confirmed										
Dry System Equipment <sup>1</sup> (Fan & Economizer info included below in Table N)													
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Pass	Fail	
Equip Name	Equip Type	System Type (Simple <sup>1</sup> or Complex <sup>2</sup> )	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtu/h)	Total Cooling Output (kBtu/h)	Efficiency Cooling Heating	Acceptance Testing Required <sup>3</sup> (Y/N)	Status <sup>1</sup>			
AC M-1	SZAC (Package3Phase)	Simple	1	54	No	0	29	SEER-16.00 / EER-9.05	AFUE-81.0	Yes	N	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup> Dry System Equipment includes furnaces, air handling units, heat pumps, etc.  
<sup>2</sup> Simple Systems must complete NRCC-CR-03-E commissioning design review form.  
<sup>3</sup> Complete Systems must complete NRCC-CR-04-E commissioning design review form.  
<sup>4</sup> A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS.  
<sup>5</sup> Status: N - New, A - Altered, E - Existing

Wet System Equipment Section Does Not Apply	
---	--

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**S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS**

\$ 140.9

Confirmed

Space Name	Exhaust Hood Style	Exhaust Hood Duty	Exhaust Length (ft)	Exhaust Flow Rate (cfm)	Pass	Fail
S-3-Kitchen Food Preparation		Light			<input type="checkbox"/>	<input type="checkbox"/>
		Light			<input type="checkbox"/>	<input type="checkbox"/>
		Light			<input type="checkbox"/>	<input type="checkbox"/>
		Light			<input type="checkbox"/>	<input type="checkbox"/>
		Light			<input type="checkbox"/>	<input type="checkbox"/>

**S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS**

\$ 140.9

This Section Does Not Apply

**S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS**

\$ 140.9

This Section Does Not Apply

**T. UNMET LOAD HOURS**

Thermal Zone Name	Cooling Unmet Load Hour Limit for Thermal Zone	Proposed Cooling Unmet Load Hours	Heating Unmet Load Hour Limit for Thermal Zone	Proposed Heating Unmet Load Hours
3-Kitchen Food Preparation	150	4465.25	150	0

**U. ENERGY USE SUMMARY**

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	--	--	1.1	4.0	-2.9
Space Cooling	2.3	1.1	1.2	--	--	--
Indoor Fans	3.7	1.3	2.4	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	0.6	0.6	0.0
Indoor Lighting	5.8	3.7	2.1	--	--	--
COMPLIANCE TOTAL	11.8	6.1	5.7	1.7	4.6	-2.9

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B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY											§ 140.4	
1. System ID	2. System Type	3. Qty	4. Rated Capacity (kBtu/h)		5. Economizer	6. Zone Name	7. Airflow (cfm)		8. Fan		Pass	Fail
			Heating	Cooling			Design	Min. Ratio	BHP	Cycles		
1- Corridor/Restroom/Su pport-Trm	Uncontrolled	1	NA	NA	NA	1- Corridor/Restroom/Suppo rt	150	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>

C. EXHAUST FAN SUMMARY												
This Section Does Not Apply												

D. DHW EQUIPMENT SUMMARY – (Adapted from NRCC-PLB-01)												
This Section Does Not Apply												

E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS												
This Section Does Not Apply												

F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)												
This Section Does Not Apply												

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7. Combined Ornamental and Special Effects Lighting												
This Section Does Not Apply												

8. Very Valuable Merchandise												
This Section Does Not Apply												

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E)												
Declaration of Required Acceptance Certificates (NRCA) –Acceptance Certificates that must be verified in the field. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).												
Test Description		Indoor				Outdoor		Confirmed				
		NRCA-LTI-02-A	NRCA-LTI-03-A	NRCA-LTI-04-A	NRCA-LTO-02-A			Pass	Fail			
Equipment Requiring Testing or Verification	# of units	Occ Sensors / Auto Time Switch	Auto Daylight	Demand Responsive	Outdoor Controls							
Occupant Sensors	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
Automatic Time Switch	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
Automatic Daylighting	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
Demand Responsive	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
Outdoor Controls	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			

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C. Voltage Drop		Enforcement Agency Check that the system complies.
Check all boxes below if the electrical power distribution system is in compliance with Section 130.5(c).		
<input checked="" type="checkbox"/> The electrical power distribution system meets the voltage drop requirement of Section 130.5(c). The maximum combined voltage drop on feeder conductors and branch circuit conductors to the farthest connected load or outlet, do not exceed 5%.		<input type="checkbox"/>
<input checked="" type="checkbox"/> Voltage drop calculation documents showing compliance to Section 130.5(c) are submitted as part of the compliance document submittal.		<input type="checkbox"/>

D. Circuit Controls for 120-Volt Receptacles and Controlled Receptacles		Field Inspector Check that the system complies.
Check one or more boxes below for applicable requirements of Section 130.5(d) for the electrical power distribution system.		
<input checked="" type="checkbox"/> The control is capable of automatically shutting OFF the controlled receptacles when the space is typically unoccupied, either at the receptacle or circuit level. For the automatic time switch control, it incorporates an override control that allows the controlled receptacle to remain ON for no more than 2 hours when an override is initiated and an automatic holiday "shut-OFF" feature that turns OFF all loads for at least 24 hours and then resumes the normally scheduled operation. Countdown timer switches are not used to comply		<input type="checkbox"/>
<input checked="" type="checkbox"/> There is at least one controlled receptacle within 6 ft from each uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each		<input type="checkbox"/>
<input checked="" type="checkbox"/> There are installed split wired receptacles with at least one controlled and one uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is		<input type="checkbox"/>
<input checked="" type="checkbox"/> Permanent and durable marking for controlled receptacles or circuits to differentiate them from uncontrolled receptacles or circuits is provided. The markings meet the requirement of Section 130.5(e)(3).		<input type="checkbox"/>
<input checked="" type="checkbox"/> For hotel and motel guest rooms, there are controlled receptacles for at least one-half of the 120-volt receptacles in each guest room. Electric circuits serving controlled receptacles in guestrooms are installed to have captive key controls, occupancy sensing controls, or automatic controls so the power is switched off no longer than 30 minutes after the guest room has been vacated. The receptacles meet the requirement of		<input type="checkbox"/>
<input checked="" type="checkbox"/> Receptacles that are only for the following purposes are excepted from Section 130.5(d): - Receptacles specifically for refrigerators and water dispensers in kitchen areas. - Receptacles located a minimum of six ft above the floor that are specifically for clocks. - Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms. - Receptacles on circuits rated more than 20 amperes. - Receptacles connected to an uninterruptible power supply (UPS) that are intended to be in continuous use, 24 hours per day/365 days per year, and are marked to differentiate them from other uncontrolled receptacles or circuits.		<input type="checkbox"/>

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NRCC-PRF-MCH-DETAILS -SECTION START-																		
A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)																		
1. DESIGN AIR FLOWS										2. VENTILATION (§ 130.1)			Confirmed					
CONDITIONED ZONE NAME	MECHANICAL VENTILATION SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN SECONDARY AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW (CFM)	DPC CONTROL (Y/N)	MIN. VENT PER PERSON (CFM/PERSON)	NRCC VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	THUNDER WINDLOW (CFM)	EXC (Y/N)	Operable Windows Installed § 140.4(a) (Y/N)	Pass	Fail				
															Design	Min. Ratio	BHP	Cycles
1- Corridor/Restroom/Support	AC-M-1	150	NA	NA	NA	N	AC-M-1	143	NA	0.71	30.00	21	21	NA	N	NA	<input type="checkbox"/>	<input type="checkbox"/>
2-Commercial Industrial St	AC-M-1	107	NA	NA	NA	N	AC-M-1	102	NA	0.10	150.0	15	15	NA	N	NA	<input type="checkbox"/>	<input type="checkbox"/>
3-Kitchen Food Preparation	AC-M-1	943	NA	NA	NA	N	AC-M-1	899	NA	2.25	60.00	135	135	NA	N	NA	<input type="checkbox"/>	<input type="checkbox"/>
TOTAL										1,144	3.06	171	171	NA			<input type="checkbox"/>	<input type="checkbox"/>

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY													
1. System ID	2. System Type	3. Qty	4. Rated Capacity (kBtu/h)		5. Economizer	6. Zone Name	7. Airflow (cfm)		8. Fan		Pass	Fail	
			Heating	Cooling			Design	Min. Ratio	BHP	Cycles			ECM Motor
3-Kitchen Food Preparation-Trm	Uncontrolled	1	NA	NA	NA	3-Kitchen Food Preparation	943	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2-Commercial Industrial St-Trm	Uncontrolled	1	NA	NA	NA	2-Commercial Industrial St	107	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E)												
This Section Does Not Apply												

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E)												
Room Number	Primary Function Area	Illuminance Value (fL/ft)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed					
NA	NA	NA	NA	NA	NA	NA	Pass Fail					
							<input type="checkbox"/> <input type="checkbox"/>					

Note: Tabulated Method for Special Function Areas is not currently implemented

F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)												
Rectangular Spaces							Confirmed					
Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Pass Fail						
NA	NA	NA	NA	NA	NA	<input type="checkbox"/> <input type="checkbox"/>						

Non-Rectangular Spaces												
This Section Does Not Apply												

Note: All applicable spaces are listed under the Non Rectangular Spaces table

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)												
1.	2.	3.	4.	Allowed Watts	Confirmed							
Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise		Pass	Fail						
0	0	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>						

5. Wall Display												
This Section Does Not Apply												

6. Floor Display and Task Lighting												
This Section Does Not Apply												

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B. Separation of Electrical Circuits for Electrical Energy Monitoring			
Check all boxes below if the electrical power distribution system is in compliance with Section 130.5(b).			
<input checked="" type="checkbox"/> The electrical power distribution system meets the separation of electrical circuits for electrical energy monitoring requirement of Section 130.5(b). The electrical power distribution system is designed so that measurement devices can monitor the electrical energy usage of load types according to TABLE 130.5-8.			
<input checked="" type="checkbox"/> Describe the electrical power distribution system installed and the compliance method chosen in meeting the requirement of Section 130.5(b). Use the space below to include the information. Examples of compliance methods are detailed in Nonresidential Compliance Manual Chapter 8. Fill out Column 1 thru 3 with the compliance information.			
General Information	Electrical Power Distribution System Information and Method of compliance	Electrical Service Rating	Enforcement Agency
01	02	03	04
Electrical Service Designation/Location/Description	Describe the electrical power distribution system installed and the compliance method used	kVA	Check that the system complies
Panel "GH"	Ltg & HVAC Panel	187	
Panel "FH"	Ltg & HVAC Panel	187	
Panel "GL1"	Power Panel	81	
Panel "FL1"	Power Panel	81	
Panel "GL2"	Power Panel	81	
Panel "FL2"	Power Panel	81	
Panel "K"	Kitchen Equipment/Power Panel	81	

Field Inspector Notes:			

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General Information			
Project Address:	Climate Zone:	Conditioned Floor Area :	
1504 Fallbrook Street, West Sacramento, CA 95691	32	21584	
		Unconditioned Floor Area :	
Building Type:	<input checked="" type="checkbox"/> Nonresidential	<input checked="" type="checkbox"/> High-Rise Residential	<input checked="" type="checkbox"/> Hotel/Motel
	<input checked="" type="checkbox"/> Schools	<input checked="" type="checkbox"/> Relocatable Public Schools	<input checked="" type="checkbox"/> Conditioned Spaces
		<input checked="" type="checkbox"/> Unconditioned Spaces	
Phase of Construction:	<input checked="" type="checkbox"/> New Construction	<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration

In the table below identify all applicable construction documents that specify the requirements for the scope of responsibility reported by this certificate. Use additional pages as needed to list

Document Number	Document Title/Descriptions (include description information for Table or Schedule if it contains compliance information)	Document Sheet # or Page #	Indicate which subsection of Section 130.5 is related to the document (e.g. 130.5(a) for service electrical metering)
1	Location of Panels	E2.2 & E3.2	1
2	One Line Diagram	ES.1	1
3	Panel Schedules	E6.1 & E6.2	
Add Row Remove Last			

A. Service Electrical Metering							
Check one of the three boxes below if the electrical power distribution system is in compliance with Section 130.5(a).							
<input checked="" type="checkbox"/> For newly installed electrical service in newly constructed buildings, Service Electrical Metering is required according to Section 130.5(a). Fill out Column 1 through 6 of table below.							
<input checked="" type="checkbox"/> For new or replacement electrical service equipment in existing buildings, Service Electrical Metering is required according to Section 141.0(b)(2)(F). Fill out Column 1 through 6 of table below.							
<input type="checkbox"/> EXCEPTION to Electrical Service Metering: Service or feeder for which the utility company provides a metering system that indicates instantaneous kW demand and kWh for a utility-defined period. Fill out Column 1, 2 and 6 of table below with the compliance information.							
Fill out a separate line for each electrical service that is connected to the building.							
Electrical Service Schedule	Electrical Service Rating	Metering Capabilities (check all that are present)				Exception to 130.5 (a)	Field Inspector
01	02	03	04	05	06	07	08
Electrical Service Designation/ Location/Description	kVA	Instantaneous (at the time) kW	Historical peak (kW)	Tracking kWh for a user-defined e period	kWh per rate period	Utility metering system	Check that the metering complies
(E)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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NRCC-PRF-ENV-DETAILS -SECTION START-												
A. OPAQUE SURFACE ASSEMBLY DETAILS												
1.		2.		3.		4.		Confirmed				
Surface Name	Surface Type	Description of Assembly Layers		Notes		Pass	Fail					
Slab On Grade7	Underground/Floor	Slab Type = Unheated/SlabOnGrade Insulation Orientation = None Insulation R-Value = R0				<input type="checkbox"/>	<input type="checkbox"/>					
R-19 Wall9	ExteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.				<input type="checkbox"/>	<input type="checkbox"/>					
R-30 Roof Attic11	Roof	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood Framed roof, 24in. OC, 3.5in., R-30 Gypsum Board - 1/2 in.				<input type="checkbox"/>	<input type="checkbox"/>					

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)												
This Section Does Not Apply												

C. OPAQUE DOOR SUMMARY												
This Section Does Not Apply												

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G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2016-NRCC-MCH-01-E)														
§ RA4														
Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).														
Test Description	MCH-01A	MCH-01A	MCH-01A	MCH-01A	MCH-01A	MCH-01A	MCH-01A	MCH-01A	MCH-01A	MCH-01A	MCH-01A	MCH-01A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single-Zone Unitary	Air Duct Ducts	Economizer Controls	DCV	Supply Air W/W	Vane Balance	Hyd. Control	Hyd. Unbalanced Flow	Auto demand Chilled	TDO for 24 Units	Zone	Pass Fail
AC-M-1	1	X	X	--	--	--	--	--	--	--	--	--	--	<input type="checkbox"/> <input type="checkbox"/>

H. EVAPORATIVE COOLER SUMMARY												
This Section Does Not Apply												

NRCC-PRF-LTI-DETAILS -SECTION START-												
A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E)												
§ 140.6												
This Section Does Not Apply												

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E)												
§ 130.1												
This Section Does Not Apply												
130.1 (a) = Manual area controls; §130.5(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Response												

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E)												
§ 140.6												
General lighting power (see Table D)												
General lighting power from special function areas (see Table E)												
Additional "use it or lose it" (See Table G)												
Total watts												0

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ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL		ENV-MM
Project Name: Westmore Oaks ES - Bldg M		Date: 5/15/2019
DESCRIPTION		
Building Envelope Measures:		
§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.	
§110.8(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2002 and 707 of Title 24, Part 2.	
§110.8(g):	Heated slab floors shall be insulated according to the requirements in Table 110.8-A.	
§110.7(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.	
§110.6(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft² of window area, 0.3 cfm/ft² of door area for residential doors, 0.3 cfm/ft² of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft² for nonresidential double doors (swinging).	
§110.6(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.	
§110.6(a):	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.	
§110.6(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).	
§120.7(a):	The opaque portions of the roof/ceiling that separates conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor requirements as follows: <b>Metal Building:</b> The weighted average U-factor of the roof assembly shall not exceed 0.098. <b>Wood Framed and Others:</b> The weighted average U-factor of the roof assembly shall not exceed 0.075. The opaque portions of walls that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor as follows: <b>Metal Building:</b> The weighted average U-factor of the wall assembly shall not exceed 0.113. <b>Metal Framed:</b> The weighted average U-factor of the wall assembly shall not exceed 0.151. <b>Light Mass Walls:</b> A 6 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.440. <b>Heavy Mass Walls:</b> An 8 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.690. <b>Wood Framed and Others:</b> The weighted average U-factor of the wall assembly shall not exceed 0.110. <b>Spandrel Panels and Opaque Curtain Wall:</b> The weighted average U-factor of the spandrel panels and opaque curtain wall assembly shall not exceed 0.280. <b>Demising Walls:</b> The opaque portions of framed demising walls shall meet the requirements of Item A or B below: A. Wood framed walls shall be insulated to meet a U-factor not greater than 0.099. B. Metal Framed walls shall be insulated to meet a U-factor not greater than 0.151.	
§120.7(c):	The opaque portions of floors and soffits that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor requirements as follows: <b>Raised Mass Floors:</b> Shall have a minimum of 3 inches of lightweight concrete over a metal deck or the weighted average U-factor of the floor assembly shall not exceed 0.269. <b>Other Floors:</b> The weighted average U-factor of the floor assembly shall not exceed 0.071.	

DSA STAMP

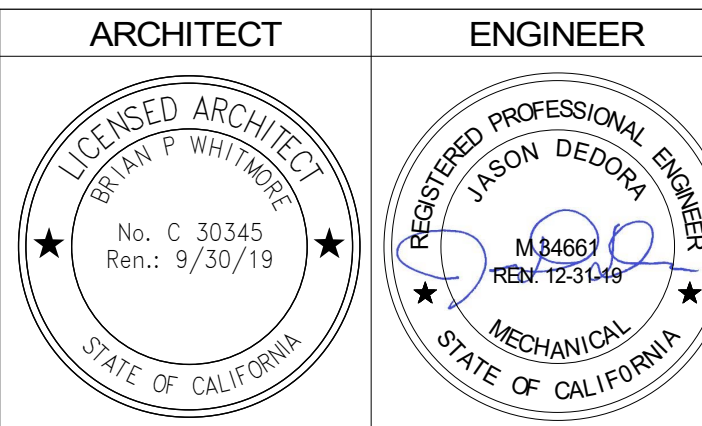
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Job #: 19-2007



- GENERAL NOTES
- This sheet is part of a set and is not to be used alone.
  - This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicated drawings have been released for construction.
  - These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
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REVISION HISTORY	NO.	REMARKS	DATE



STATE OF CALIFORNIA  
INDOOR LIGHTING – LIGHTING CONTROLS  
CEC-NRCC-LTI-02-E (Revised 04/17)

CALIFORNIA ENERGY COMMISSION  
NRCC-LTI-02-E  
(Page 2 of 3)

CERTIFICATE OF COMPLIANCE  
Indoor Lighting - Lighting Controls  
Project Name: Westmore Oaks ES Bldg F  
Date Prepared: 5/15/2019

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:  
☒ CONDITIONED SPACES    ☐ UNCONDITIONED SPACES

Lighting Control Schedule

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	\$130.1(a)	\$130.1(b)	\$130.1(c)	\$130.1(d)	\$130.1(e)	\$140.6(a)	\$140.6(d)	PAF Credit (11 x 12)	Watts of Control Lighting	Control Credit Required	✓ if Acceptance Test Required	Field Inspector
All Bldg F Classrooms	(1) DM, (2) Ceiling D, (2) PC per rm	45	*	*	*	*	*					0	<input type="checkbox"/>	<input type="checkbox"/>
All Bldg F Restrooms	(1) DW & (1) Ceiling D per rm	4	*	*	*	*	*					0	<input type="checkbox"/>	<input type="checkbox"/>
F100 - Multi-Purpose	(4) Ceiling D, (1) PC, (1) DM, (3) PW	9	*	*	*	*	*					0	<input type="checkbox"/>	<input type="checkbox"/>
F114 - Janitor	(1) Passive Infrared Switch	1	*	*	*	*	*					0	<input type="checkbox"/>	<input type="checkbox"/>
F113 - Fire Riser	(1) Passive Infrared Switch	1	*	*	*	*	*					0	<input type="checkbox"/>	<input type="checkbox"/>
												0	<input type="checkbox"/>	<input type="checkbox"/>
Control Credit PAGE TOTAL (Sum of Column 13):										0				
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):														
See electrical symbol legend for lighting control symbol descriptions.										Enter Control Credit total into NRCC-LTI-01-E; Page 1.				
1. \$130.1(a) = Manual area controls; \$130.1(b) = Multi Level; \$130.1(c) = Auto Shut-Off; \$130.1(d) = Automatic Daylight; \$130.1(e) = Demand Responsive; \$140.6(d) = Additional lighting controls installed to earn a PAF; \$140.6(d) = Prescriptive Secondary Sidelit Daylight Controls. 2. Check Table 140.6-A for correct PAF. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.														

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2017

STATE OF CALIFORNIA  
INDOOR LIGHTING – LIGHTING CONTROLS  
CEC-NRCC-LTI-02-E (Revised 04/17)

CALIFORNIA ENERGY COMMISSION  
NRCC-LTI-02-E  
(Page 1 of 3)

CERTIFICATE OF COMPLIANCE  
Indoor Lighting - Lighting Controls  
Project Name: Westmore Oaks ES Bldg F  
Date Prepared: 5/15/2019

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
<input checked="" type="radio"/>	<input type="radio"/>	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
<input checked="" type="radio"/>	<input type="radio"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input checked="" type="radio"/>	<input type="radio"/>	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input checked="" type="radio"/>	<input type="radio"/>	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
<input checked="" type="radio"/>	<input type="radio"/>	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
<input checked="" type="radio"/>	<input type="radio"/>	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
<input checked="" type="radio"/>	<input type="radio"/>	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
<input checked="" type="radio"/>	<input type="radio"/>	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
<input checked="" type="radio"/>	<input type="radio"/>	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-Off control requirements in Section 130.1(c).
<input checked="" type="radio"/>	<input type="radio"/>	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylight zones are shown on the plans.
<input checked="" type="radio"/>	<input type="radio"/>	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
<input checked="" type="radio"/>	<input type="radio"/>	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-off controls, and demand responsive controls.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2017

STATE OF CALIFORNIA  
Electrical Power Distribution  
CEC-NRCC-ELC-01-E (Revised 01/18)

CALIFORNIA ENERGY COMMISSION  
NRCC-ELC-01-E  
Page of

CERTIFICATE OF COMPLIANCE  
Electrical Power Distribution  
Project Name: Westmore Oaks ES  
Date Prepared: 5/15/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT  
1. I certify that this Certificate of Compliance documentation is accurate and complete.  
Documentation Author Name: Tony Zamarripa  
Signature Date: 5/15/2019  
Address: 1209 Pleasant Grove Blvd.  
City/State/Zip: Roseville, CA 95678  
Phone: 916-771-0778

RESPONSIBLE PERSON'S DECLARATION STATEMENT  
I certify the following under penalty of perjury, under the laws of the State of California:  
1. The information provided on this Certificate of Compliance is true and correct.  
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).  
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.  
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.  
Responsible Designer Name: Kenneth R. Rubitsky  
Signature Date: 5/15/2019  
Address: 1209 Pleasant Grove Blvd.  
City/State/Zip: Roseville, CA 95678  
Phone: 916-771-0778

STATE OF CALIFORNIA  
INDOOR LIGHTING – LIGHTING CONTROLS  
CEC-NRCC-LTI-02-E (Revised 04/17)

CALIFORNIA ENERGY COMMISSION  
NRCC-LTI-02-E  
(Page 2 of 3)

CERTIFICATE OF COMPLIANCE  
Indoor Lighting - Lighting Controls  
Project Name: Westmore Oaks ES Bldg G  
Date Prepared: 5/15/2019

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:  
☒ CONDITIONED SPACES    ☐ UNCONDITIONED SPACES

Lighting Control Schedule

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	\$130.1(a)	\$130.1(b)	\$130.1(c)	\$130.1(d)	\$130.1(e)	\$140.6(a)	\$140.6(d)	PAF Credit (11 x 12)	Watts of Control Lighting	Control Credit Required	✓ if Acceptance Test Required	Field Inspector
All Bldg G Storage Rooms	(1) PW per room	4	*	*	*	*	*					0	<input type="checkbox"/>	<input type="checkbox"/>
G111 - PE	(3) PC & (2) Ceiling D	5	*	*	*	*	*					0	<input type="checkbox"/>	<input type="checkbox"/>
All Bldg G Classrooms & G101	(1) DM, (2) Ceiling D, (2) PC per rm	35	*	*	*	*	*					0	<input type="checkbox"/>	<input type="checkbox"/>
Rms G103 & G118	(1) PW per room	2	*	*	*	*	*					0	<input type="checkbox"/>	<input type="checkbox"/>
Restrooms G104 & G105	(2) PW & (2) Ceiling D per rm	4	*	*	*	*	*					0	<input type="checkbox"/>	<input type="checkbox"/>
G102 - Office	(1) DM & (1) Corner D	2	*	*	*	*	*					0	<input type="checkbox"/>	<input type="checkbox"/>
G100 - Multi-Purpose	(1) DM, (4) PW, (4) Ceiling D, (1) PC	10	*	*	*	*	*					0	<input type="checkbox"/>	<input type="checkbox"/>
Control Credit PAGE TOTAL (Sum of Column 13):										0				
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):														
See electrical symbol legend for lighting control symbol descriptions.										Enter Control Credit total into NRCC-LTI-01-E; Page 1.				
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2017

STATE OF CALIFORNIA  
INDOOR LIGHTING – LIGHTING CONTROLS  
CEC-NRCC-LTI-02-E (Revised 04/17)

CALIFORNIA ENERGY COMMISSION  
NRCC-LTI-02-E  
(Page 1 of 3)

CERTIFICATE OF COMPLIANCE  
Indoor Lighting - Lighting Controls  
Project Name: Westmore Oaks ES Bldg G  
Date Prepared: 5/15/2019

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
<input checked="" type="radio"/>	<input type="radio"/>	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
<input checked="" type="radio"/>	<input type="radio"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input checked="" type="radio"/>	<input type="radio"/>	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input checked="" type="radio"/>	<input type="radio"/>	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
<input checked="" type="radio"/>	<input type="radio"/>	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
<input checked="" type="radio"/>	<input type="radio"/>	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
<input checked="" type="radio"/>	<input type="radio"/>	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
<input checked="" type="radio"/>	<input type="radio"/>	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
<input checked="" type="radio"/>	<input type="radio"/>	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-Off control requirements in Section 130.1(c).
<input checked="" type="radio"/>	<input type="radio"/>	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylight zones are shown on the plans.
<input checked="" type="radio"/>	<input type="radio"/>	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
<input checked="" type="radio"/>	<input type="radio"/>	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-off controls, and demand responsive controls.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2017

STATE OF CALIFORNIA  
INDOOR LIGHTING – LIGHTING CONTROLS  
CEC-NRCC-LTI-02-E (Revised 04/17)

CALIFORNIA ENERGY COMMISSION  
NRCC-LTI-02-E  
(Page 3 of 3)

CERTIFICATE OF COMPLIANCE  
Indoor Lighting - Lighting Controls  
Project Name: Westmore Oaks ES Bldg F  
Date Prepared: 5/15/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT  
1. I certify that this Certificate of Compliance documentation is accurate and complete.  
Documentation Author Name: Anthony Zamarripa  
Signature Date: 5/15/2018  
Address: 1209 Pleasant Grove Blvd.  
City/State/Zip: Roseville, CA 95678  
Phone: 916-771-0778

RESPONSIBLE PERSON'S DECLARATION STATEMENT  
I certify the following under penalty of perjury, under the laws of the State of California:  
1. The information provided on this Certificate of Compliance is true and correct.  
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).  
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.  
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.  
Responsible Designer Name: Kenneth R. Rubitsky  
Signature Date: 5/15/2018  
Address: 1209 Pleasant Grove Blvd.  
City/State/Zip: Roseville, CA 95678  
Phone: 916-771-0778

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2017

STATE OF CALIFORNIA  
INDOOR LIGHTING – LIGHTING CONTROLS  
CEC-NRCC-LTI-02-E (Revised 04/17)

CALIFORNIA ENERGY COMMISSION  
NRCC-LTI-02-E  
(Page 2 of 3)

CERTIFICATE OF COMPLIANCE  
Indoor Lighting - Lighting Controls  
Project Name: Westmore Oaks ES Bldg M  
Date Prepared: 5/15/2019

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:  
☒ CONDITIONED SPACES    ☐ UNCONDITIONED SPACES

Lighting Control Schedule

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	\$130.1(a)	\$130.1(b)	\$130.1(c)	\$130.1(d)	\$130.1(e)	\$140.6(a)	\$140.6(d)	PAF Credit (11 x 12)	Watts of Control Lighting	Control Credit Required	✓ if Acceptance Test Required	Field Inspector
Rms M106,M107,M108,M113	(1) PW per room	4	*	*	*	*	*					0	<input type="checkbox"/>	<input type="checkbox"/>
M111 - Kitchen	(3) Ceiling D	3	*	*	*	*	*					0	<input type="checkbox"/>	<input type="checkbox"/>
												0	<input type="checkbox"/>	<input type="checkbox"/>
												0	<input type="checkbox"/>	<input type="checkbox"/>
												0	<input type="checkbox"/>	<input type="checkbox"/>
Control Credit PAGE TOTAL (Sum of Column 13):										0				
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):														
See electrical symbol legend for lighting control symbol descriptions.										Enter Control Credit total into NRCC-LTI-01-E; Page 1.				
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2017

STATE OF CALIFORNIA  
INDOOR LIGHTING – LIGHTING CONTROLS  
CEC-NRCC-LTI-02-E (Revised 04/17)

CALIFORNIA ENERGY COMMISSION  
NRCC-LTI-02-E  
(Page 1 of 3)

CERTIFICATE OF COMPLIANCE  
Indoor Lighting - Lighting Controls  
Project Name: Westmore Oaks ES Bldg M  
Date Prepared: 5/15/2019

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
<input checked="" type="radio"/>	<input type="radio"/>	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
<input checked="" type="radio"/>	<input type="radio"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input checked="" type="radio"/>	<input type="radio"/>	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input checked="" type="radio"/>	<input type="radio"/>	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
<input checked="" type="radio"/>	<input type="radio"/>	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
<input checked="" type="radio"/>	<input type="radio"/>	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
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<input checked="" type="radio"/>	<input type="radio"/>	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-Off control requirements in Section 130.1(c).
<input checked="" type="radio"/>	<input type="radio"/>	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylight zones are shown on the plans.
<input checked="" type="radio"/>	<input type="radio"/>	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
<input checked="" type="radio"/>	<input type="radio"/>	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-off controls, and demand responsive controls.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2017

STATE OF CALIFORNIA  
INDOOR LIGHTING – LIGHTING CONTROLS  
CEC-NRCC-LTI-02-E (Revised 04/17)

CALIFORNIA ENERGY COMMISSION  
NRCC-LTI-02-E  
(Page 3 of 3)

CERTIFICATE OF COMPLIANCE  
Indoor Lighting - Lighting Controls  
Project Name: Westmore Oaks ES Bldg G  
Date Prepared: 5/15/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT  
1. I certify that this Certificate of Compliance documentation is accurate and complete.  
Documentation Author Name: Anthony Zamarripa  
Signature Date: 5/15/2018  
Address: 1209 Pleasant Grove Blvd.  
City/State/Zip: Roseville, CA 95678  
Phone: 916-771-0778

RESPONSIBLE PERSON'S DECLARATION STATEMENT  
I certify the following under penalty of perjury, under the laws of the State of California:  
1. The information provided on this Certificate of Compliance is true and correct.  
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3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.  
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.  
Responsible Designer Name: Kenneth R. Rubitsky  
Signature Date: 5/15/2018  
Address: 1209 Pleasant Grove Blvd.  
City/State/Zip: Roseville, CA 95678  
Phone: 916-771-0778

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2017

BCA

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1209 Pleasant Grove Blvd.  
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p 916-771-0778

www.lpengineers.com  
Job #: 19-2007

ARCHITECT  
LICENSED ARCHITECT  
No. C. 30545  
Ren.: 9/30/19  
STATE OF CALIFORNIA

ENGINEER  
REGISTERED PROFESSIONAL ENGINEER  
No. 44883  
Ren. 12/31/16  
MECHANICAL  
STATE OF CALIFORNIA

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NO.	REMARKS	DATE

DRAWING STATUS  
● DSA PLAN CHECK  
○ DSA BACK CHECK  
○ BIDDING  
○ CONSTRUCTION

DATE  
05/20/2019

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

TITLE 24 COMPLIANCE  
FORMS

Date  
05/20/2019

Scale

Drawn  
Author

Checked  
Checker

Project Number  
19003

Drawing Number  
T24.9



STATE OF CALIFORNIA  
OUTDOOR LIGHTING  
CEC-NRCC-LTO-01-E (Revised 04/16)  
CERTIFICATE OF COMPLIANCE  
Outdoor Lighting  
Project Name: Westmore Oaks Elementary School  
Date Prepared: 05/15/2019  
Page 2 of 4

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance  
April 2016

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance  
April 2016

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Project Name: Westmore Oaks Elementary School  
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance  
April 2016

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance  
April 2016

STATE OF CALIFORNIA  
OUTDOOR LIGHTING - LIGHTING CONTROLS  
CEC-NRCC-LTO-02-E (Revised 04/16)  
CERTIFICATE OF COMPLIANCE  
Outdoor Lighting - Lighting Controls  
Project Name: Westmore Oaks ES Bldg M  
Date Prepared: 5/15/2019  
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance  
April 2017

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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance  
August 2016

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August 2016

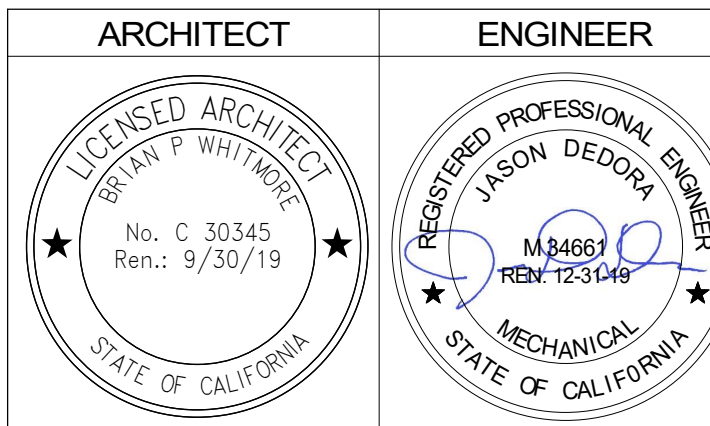
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NO.	REMARKS	DATE

REVISION HISTORY

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● DSA PLAN CHECK  
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○ CONSTRUCTION

DATE: 05/20/2019

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










Date: 05/20/2019  
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Drawn: Author  
Checked: Checker  
Project Number: 19003  
Drawing Number: T24.10







FIRE ALARM ABBREVIATIONS	
SYMBOL	DESCRIPTIONS
AJAMP	AMPERES
AC	ALTERNATING CURRENT
AF	ABOVE FINISHED FLOOR
AFC	ABOVE FINISHED CEILING
AFG	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)
C	CONDUIT
CCT	CIRCUIT
CKT	CIRCUIT
DC	DIRECT CURRENT
(E)	EXISTING TO REMAIN
EC	EMPTY CONDUIT
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
FACP	FIRE ALARM CONTROL PANEL
FAPS	FIRE ALARM POWER SUPPLY
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE METALLIC CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND/G	GROUND
HP	HORSEPOWER
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KVA	KILOVOLT-AMPS
KW	KILOWATTS
LTO	LIGHTING
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
(N)	NEW
N	NEUTRAL CONDUCTOR (GROUNDED CIRCUIT CONDUCTOR)
N.I.E.S.	NOT IN ELECTRICAL SCOPE OR SPECIFICATIONS
NL	NIGHT LIGHT
PHIPØ	PHASE OR POLE
PNL	PANELBOARD
PB	UNDERGROUND PULL BOX
PVC	POLYVINYL CHLORIDE CONDUIT (SCHEDULE 40)
(R)	RELOCATOR/RELOCATED
RECEP	RECEPTACLE
RCSG	RIGID GALVANIZED STEEL CONDUIT
STC	SIGNAL TERMINAL CABINET
U	UNSWITCHED
UNO	UNLESS NOTED OTHERWISE
V	VOLTAGE OR VOLTS
W	WATTS
WG	WIREGUARD
WP	WEATHERPROOF
WPU	WEATHERPROOF WHILE IN USE
(X)	REPLACE
XFMR	TRANSFORMER

FIRE ALARM CIRCUIT IDENTIFIERS	
	(NAC) STROBE CKT
	BLDG NAC POWER SUPPLY
	POWER SUPPLY CKT NUMBER
	NH2.1 → DEVICE NUMBER IDENTIFIER (QTY)
	(VOICE) EVACUATION CKT
	BLDG VOICE AMP LOCATION "VAA" CKT NUMBER
	V2.1 → DEVICE NUMBER IDENTIFIER (QTY)
	(SLC) ADDRESS CKT
	BLDG IDENTIFIER
	CKT NUMBER
	AP1.2 → DEVICE NUMBER IDENTIFIER (QTY)

DSA REQUIRED ANCHORAGE NOTES	
<u>MEP COMPONENT ANCHORAGE NOTE:</u>	
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.	
1.	ALL PERMANENT EQUIPMENT AND COMPONENTS.
2.	TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3.	MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.	
A.	COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B.	COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
FOR THOSE ELEMENTS THAT DO NO, REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.	
<u>PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:</u>	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.	
COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.	
THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.	

FIRE ALARM MONITORING NOTE	
AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UJUS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY DISTRICT.	

FIRE ALARM SPEAKER/STROBE NOTES	
1.	PROVIDE FIRE ALARM EMERGENCY COMMUNICATION SYSTEM AUDIBLE NOTIFICATION IN ALL COMMON AREAS. AUDIBLE LEVELS SHALL MEET APPLICABLE STANDARDS IN NFPA 72 CHAPTER 24.4 ONE-WAY EMERGENCY COMMUNICATION SYSTEM. TESTING AND REPORTS REQUIREMENTS FOR INTELLIGIBILITY SHALL BE PROVIDED PRIOR TO ACCEPTANCE FOR FINAL TESTING WITH AUTHORITY HAVING JURISDICTION.
2.	A FLASHING VISUAL WARNING DEVICE HAVING A FREQUENCY OF NOT MORE THAN TWO (2) FLASHES OR LESS THAN ONE (1) FLASH PER SECOND BE INSTALLED TO WARN THE HEARING IMPAIRED AS SHOWN ON THE DRAWINGS. (SEC. 2-7204)
3.	SNCHRONIZED PER NFPA 720, 18.5.4.

FIRE ALARM CARBON MONOXIDE NOTES	
1.	PROGRAM CARBON MONOXIDE ALARM SIGNAL TO TAKE PRIORITY OVER SUPERVISORY AND TROUBLE SIGNALS PER NFPA 720, 7.2.1.
2.	FACP MUST BE CAPABLE OF GENERATING BOTH A 3-PULSE (FIRE ALARM) AND 4-PULSE (CARBON MONOXIDE ALARM) TEMPORAL PATTERN PER NFPA 720, 5.8.6.5.1.

FIRE ALARM DEMOLITION GENERAL NOTES	
1.	ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEY AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT THE EXISTING FIRE ALARM SYSTEM WITH DEVICES, WIRING AND FIRE ALARM CONTROL PANEL.
2.	EXISTING FIRE ALARM SYSTEM SHALL REMAIN ACTIVE UNTIL CONSTRUCTION IS COMPLETED. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING FIRE ALARM SYSTEMS AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWNS. SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE.
3.	ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER'S REPRESENTATIVE ARE DEEM SALVAGEABLE. SHALL REMAIN THE PROPERTY OF THE OWNER. ALL ELECTRICAL MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR ACCORDINGLY.
4.	WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE.
5.	WHEREVER EXISTING ELECTRICAL DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE.
6.	COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
7.	WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO: A. REMOVE ALL WIRE AND CABLE. B. REMOVE ALL DEVICES AND EQUIPMENT. C. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE. D. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.

FIRE ALARM GENERAL NOTES	
1.	THE INTENT OF THE FIRE ALARM WORK SHOWN IS TO INSTALL NEW FIRE ALARM SYSTEM COMPONENTS TO MEET THE REQUIREMENTS OF NFPA 72 AND 2010 CALIFORNIAN FIRE CODE AND APPLICABLE DSA REGULATIONS AND REQUIREMENTS. APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT THE EXISTING FIRE ALARM SYSTEM WITH DEVICES, WIRING AND FIRE ALARM CONTROL PANEL.
2.	PROVIDE AN AUTOMATIC VOICE EVACUATION FIRE ALARM DETECTION AND NOTIFICATION SYSTEM, PER SB575 REQUIREMENT. LOCATIONS OF EXISTING EQUIPMENT AND DEVICES SHOWN ON PLAN ARE BASED ON AVAILABLE AS BUILT PLANS AND INFORMATION. CONTRACTOR SHALL THOROUGHLY INSPECT THE EXISTING SYSTEM AND SITE CONDITIONS BEFORE BID. ADVISE THE DISTRICTS REPRESENTATIVE OF ALL CONDITIONS REQUIRING IMMEDIATE ATTENTION OR MIGHT CAUSE DIFFICULTIES THAT ARE NOT ADDRESSED OR INFERRED TO, IN THE CONTRACT DRAWINGS AND SPECIFICATIONS PRIOR TO NEW CONSTRUCTION AND THE COMMENCEMENT OF THE GUARANTEE PERIOD.
3.	FIRE WATCH IN CONFORMANCE WITH THE CALIFORNIA FIRE CODE SHALL BE PROVIDED AT THE DIRECTION OF THE CONTRACTOR FOR EVERY OFF-ICE BUILDING. THE SCHOOL DISTRICT SHALL ASSIST WITH FIRE WATCH ACTIVITIES DURING SCHOOL HOURS AND WHENEVER THE CAMPUS IS OCCUPIED BY STUDENTS, TEACHERS AND STAFF. THE CONTRACTOR SHALL PROVIDE ALL FIRE WATCH ACTIVITIES AFTER SCHOOL HOURS AND WHENEVER THE CAMPUS IS NOT OCCUPIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING ALL FIRE WATCH LOGS.
4.	THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA FIRE CODE, ARTICLE 10, CBC 305.9 AND CALIFORNIA ELECTRICAL CODE, ARTICLE 760.
5.	FIRE ALARM SYSTEM SHALL TRANSMIT ALARM, SUPERVISORY AND TROUBLE SIGNAL TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72 AND CBC 907.6.5.3.
6.	THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
7.	OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
8.	INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL, DSA AND THE LOCAL FIRE MARSHAL.
9.	UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY AND DSA INSPECTOR OF RECORD (IOR). THE SCHOOL SHALL NOT BE IN OPERATION UNTIL THE IOR AND THE LOCAL FIRE MARSHAL HAS VERIFIED AND/OR SIGNED OFF ON OPERATIONAL CAPACITY OF THE FIRE ALARM SYSTEM.
10.	DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.
11.	CONTRACTOR SHALL SUBMIT THE DSA INSPECTOR OF RECORD (IOR) NFPA CERTIFICATE OF COMPLIANCE FORM TO THE SCHOOL DISTRICT REPRESENTATIVE FOR SUBMISSION TO THE DSA OFFICE.
12.	CONTRACTOR SHALL PROVIDE INTELLIGIBILITY TESTING USING INTELLIGIBILITY METERS APPROVED FOR SUCH USE. REFERENCE NFPA 72 CHAPTER 24. AN STI SCORE OF 7.0 IS A MINIMUM REQUIREMENT. CONTRACTOR SHALL IDENTIFY ALL ACOUSTICALLY DISTINGUISHABLE SPACES (ADS) ON CONTRACTOR SHOP DRAWINGS.
13.	BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, THE SYSTEM INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE INSPECTOR OF RECORD TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND COMPLETELY TESTED IN ACCORDANCE WITH THE 1999 NFPA 72, SECTION 1-6.1.2 AND 7-1.6.2.
14.	THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
15.	CONTRACTOR SHALL SUBMIT ANY ALTERATIONS OF THE APPROVED CONSTRUCTION DOCUMENTS TO THE IOR/DSA FOR NEW APPROVALS. START INSTALLATION OF THE SYSTEM AFTER DETAILED PLANS, SPECIFICATIONS, NEW SHOP DRAWINGS AND SUBMITTALS HAS BEEN APPROVED BY DSA. CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ANY DELAY.
16.	PROVIDE FIRE ALARM AUDIBLE SOUND LEVEL AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIED AREA, BUT NOT LESS THAN 75 dBA AT 10 FEET OR MORE THAN 120 dBA IN TOTAL, THROUGHOUT. SYNCHRONIZED TEMPORAL CODE 3 SOUND. (NFPA 72, SEC. 5.8.1.2)
17.	WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
18.	WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 80" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 8" TO A HORIZONTAL STRUCTURE.
19.	A FLASHING VISUAL WARNING DEVICE HAVING A FREQUENCY OF NOT MORE THAN 80 FLASHES PER MINUTE [TWO (2) FLASHES OR LESS THAN ONE (1) FLASH PER SECOND] SHALL BE INSTALLED TO WARN THE HEARING IMPAIRED AS SHOWN ON THE DRAWINGS. (SEC. 2-7204) VISIBLE DEVICES WITHIN 5' FROM EACH OTHER SHALL BE SYNCHRONIZED.
20.	SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
21.	LOCATE SMOKE AND HEAT DETECTORS AT LEAST ONE FOOT AWAY FROM FLUORESCENT LIGHT FIXTURES.
22.	THE CONTRACTOR SHALL PROVIDE AS-BUILT SHOP DRAWINGS INDICATING CIRCUITING OF ALL DETECTORS AND OTHER DEVICES IN ALL THE BUILDINGS OF THIS PROJECT.
23.	WHERE ACCESSIBILITY NOT AVAILABLE TO THE NEW FIRE ALARM DEVICES LOCATED ABOVE THE CEILING/ATTIC SPACES, PROVIDE ACCESS PANELS TO THESE DEVICES.
24.	ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7. UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
25.	UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE PROTECTED FOR WET LOCATIONS.
26.	PER CEC STANDARDS, ALL WIRINGS IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
27.	ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
28.	NO SPLICES SHALL BE ALLOWED FOR FIRE ALARM SYSTEM UNDERGROUND CABLES.
29.	NEW FIRE ALARM WIRING SHALL NOT BE INSTALLED IN ANY RACEWAY WITH WIRING IN EXCESS OF 24 VOLT.
30.	FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
31.	A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
32.	MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
33.	CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL CODE COMPLIANT SYSTEM WITH ALL REQUIRED HARDWARE, DEVICES AND PROGRAMMING AND POINT/DEVICE DESCRIPTION SCHEDULES.
34.	CONTRACTOR SHOP DRAWINGS SHALL BE COMPLETE SHOWING ALL CIRCUITING, POINT TO POINT WIRING DIAGRAM, DIMENSIONED PANEL LAYOUTS, DEVICE LABELING AND POINT/DEVICE DESCRIPTION SCHEDULES.
35.	INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL AND THE LOCAL FIRE MARSHAL.
36.	WHERE ACCESSIBILITY IS NOT AVAILABLE TO THE NEW FIRE ALARM DEVICES LOCATED ABOVE THE CEILING/ATTIC SPACES, PROVIDE ACCESS PANELS TO THESE DEVICES. COORDINATE IN THE FIELD.
37.	THE CONTRACTOR SHALL PROVIDE AS-BUILT SHOP DRAWINGS INDICATING CIRCUITING OF ALL DETECTOR ASB AND OTHER DEVICES IN ALL THE BUILDINGS OF THIS PROJECT. AS-BUILT DRAWINGS SHALL BE STORED IN FIRE ALARM DOCUMENT CABINET INSTALLED ADJACENT TO FIRE ALARM CONTROL PANEL OR LOCATION APPROVED BY AUTHORITY HAVING JURISDICTION.
38.	PROVIDE DOCUMENTATION CABINET TO BE INSTALLED PROXIMAL TO FACP (NFPA 72, 7.2.1.1). ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET (NFPA 72, 7.2.2.1). THE DOCUMENTATION CABINET TO BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS" (NFPA 72, 7.2.2.4).
39.	CONTRACTOR SHALL AFFIX TO EACH FIELD DEVICE A DEVICE LABEL. DEVICE LABEL SHALL BE ARRANGED IFOLLOWING DETAIL "FIRE ALARM CIRCUIT IDENTIFIERS". INITIATION DEVICES CONNECTED TO EQUIPMENT BY OTHERS SHALL HAVE A LABEL INDICATING THE EQUIPMENT CONNECTED.

FIRE ALARM EQUIPMENT SCHEDULE				
SYM	MODEL #	MEG	DESCRIPTION	CSFM
	EST3	EDWARDS	FIRE ALARM CONTROL PANEL	7165-1657.0186
	ANS-50-XG	EDWARDS	FIRE ALARM VOICE AMPLIFIER	6912-1657.0237
	BPS6A	EDWARDS	FIRE ALARM POWER SUPPLY	7300-1657.0229
	E-RLCD-C	EDWARDS	FIRE ALARM REMOTE ANNUNCIATOR PANEL	7120-1657.0254
	SIGA-MM1	EDWARDS	MONITOR MODULE	7300-0559.0121
	SIGA-CR/MCR	EDWARDS	CONTROL RELAY MODULE	7300-1657.0121
	SIGA-PS	EDWARDS	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	7272-1657.0126
	SIGA-SD	EDWARDS	ADDRESSABLE PHOTOELECTRIC SMOKE DUCT DETECTOR WITH REMOTE TEST STATIONS	3242-1657.0223
	SIGA-PCD	EDWARDS	ADDRESSABLE CARBON MONOXIDE AND SMOKE DETECTOR	7275-1657.0334
	SIGA-AB4G-LF	EDWARDS	ADDRESSABLE AUDIBLE SOUNDER BASE (TEMPORAL 3 AND 4 PATTERNS)	7300-1657.0332
	SIGA-PHD	EDWARDS	ADDRESSABLE MULTISENSOR SMOKE AND HEAT DETECTOR	7272-1657.0330
	SIGA-HFD	EDWARDS	ADDRESSABLE HEAT DETECTOR (FIXED/RATE OF RISE)	7270-1657.0330
	SIGA-278	EDWARDS	ADDRESSABLE PULL STATION	7150-1657.0129
	EG4RF-S2VM	GENESIS SERIES	STROBE (15cd, 30cd, 75cd, 110cd)	7320-1657.0211
	EG4RF-S2VM	GENESIS SERIES	SPEAKER STROBE (15cd, 30cd, 75cd, 110cd)	7320-1657.0211
	EG4RF-S2	GENESIS SERIES	SPEAKER (EXTERIOR/INTERIOR)	7320-1657.0211
NOTES:				
1. "C" ADJACENT TO NOTIFICATION DEVICES INDICATES MOUNTED ON CEILING.				
2. "WP" INDICATES DEVICE IS WEATHERPROOF.				

GOVERNING CODES & APPLICABLE STANDARDS	
<u>TITLE 24 CODES:</u>	
1.	2016 CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE (CAC), (PART 1, TITLE 24, CCR).
2.	2016 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR).
3.	2016 CALIFORNIA ELECTRICAL CODE, (PART 3, TITLE 24, CCR).
4.	2016 CALIFORNIA MECHANICAL CODE (CMC), (PART 4, TITLE 24, CCR).
5.	2016 CALIFORNIA PLUMBING CODE (CPC), (PART 5, TITLE 24, CCR).
6.	2016 CALIFORNIA ENERGY CODE, (PART 6, TITLE 24, CCR).
7.	2016 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR).
8.	2016 CALIFORNIA REFERENCE CODE, (PART 12, TITLE 24, CCR).
<u>REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:</u>	
1.	2016 CBC, CHAPTER 35.
2.	2016 CFC, CHAPTER 45.
3.	2016 CFC, CHAPTER 80.
4.	2016 NFPA 72.
5.	2106 NFPA 720, AS AMENDED.

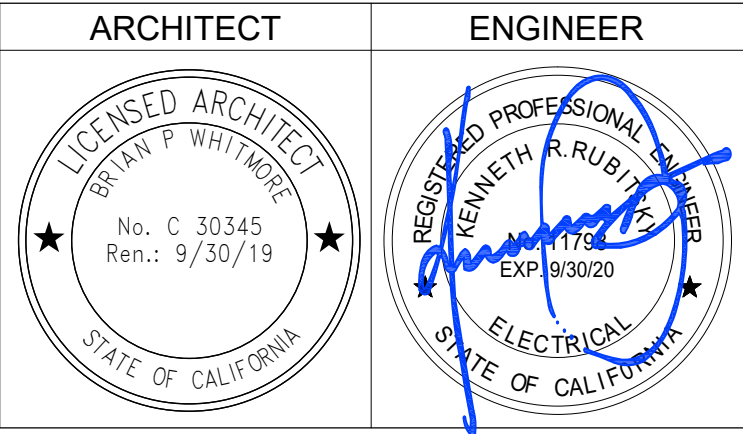
FIRE ALARM CABLE SCHEDULE		
TYPE	DESCRIPTION	USE
CABLES INSTALLED IN CONDUIT (MINIMUM 1/2" C.)		
A	WEST PENN D990 (2#16 SOL, UTP, FPL)	SLC (ADDRESSABLE LOOP) INTERIOR
AE	WEST PENN AQ225 (2#16 STR, UTP, FPL)	SLC (ADDRESSABLE LOOP) EXTERIOR
M	ESSEX 2#14 THHN/THWN SOL	IOC (INITIATING DEVICE CIRCUIT)- INTERIOR/EXTERIOR
R	WEST PENN D975 (2#18 SOL, STP, FPL)	ANNUNCIATOR INTERIOR
B	ESSEX 2#14 THHN/THWN SOL	NAC (NOTIFICATION APPLIANCE CIRCUIT) INTERIOR
C	WEST PENN 975 (2#18 SOL, STP)	AUDIO SPEAKER CABLE - INTERIOR
CE	WEST PENN AQ224 (2#16 STR, STP, FPL)	AUDIO SPEAKER CABLE - EXTERIOR
DE	WEST PENN AQ225 (2#16 SOL, UTP, FPL)	NETWORK COMMUNICATION CABLE - EXTERIOR
CABLE DESCRIPTION ABBREVIATIONS		
ABBREV.	DEFINITION	ABBREV.
FPL	FIRE ALARM POWER-LIMITED	STR
FPLP	FIRE ALARM POWER-LIMITED, PLENUM	STP
FPLR	FIRE ALARM POWER-LIMITED, RISER	US
OS	OVERALL SHIELDED CABLE	UTP
SOL	SOLID CONDUCTOR	UNSHIELDED TWISTED PAIR

FIRE ALARM SCOPE OF WORK	
INCORPORATE (2) NEW BUILDINGS (BLDG F & G) AND RECONFIGURE (1) EXISTING BUILDING (BLDG M) INTO AN EXISTING EST EDWARDS AUTOMATIC FIRE ALARM SYSTEM WITH VOICE EVACUATION SYSTEM. WORK IS TO INCLUDE BUT NOT LIMITED TO THE DEMOLITION OF FIRE ALARM DEVICES (BACKBOXES, CONDUIT AND WIRING), ADDITION OF NEW DEVICES, CONDUIT AND WIRING, RE-PROGRAMMING AND TESTING OF COMPLETED SYSTEM.	
<u>EXISTING BUILDING M (NEW ADDITION)</u>	
OCCUPANCY TYPE:	A-2
BUILDING HEIGHT:	23'-1"
# OF STORES:	1
TYPE OF CONSTRUCTION:	V-B
SPRINKLERS:	PARTIAL-NEW ADDITION ONLY(B SEE FFP PLANS)
ALTERNATIVE PROTECTION:	NOT USED
FIRE ALARM SYSTEM TYPE:	CLASS B
INITIATION DEVICE CIRCUIT (ICD):	CLASS B
SIGNAL LINE CIRCUIT (SLC):	CLASS B
NOTIFICATION DEVICE CIRCUIT (NAC):	CLASS B
<u>NEW BUILDING F</u>	
OCCUPANCY TYPE:	A-2-E
BUILDING HEIGHT:	21'-10"
# OF STORES:	1
TYPE OF CONSTRUCTION:	V-B
SPRINKLERS:	YES (SEE FFP PLANS)
ALTERNATIVE PROTECTION:	NOT USED
FIRE ALARM SYSTEM TYPE:	CLASS B
INITIATION DEVICE CIRCUIT (ICD):	CLASS B
SIGNAL LINE CIRCUIT (SLC):	CLASS B
NOTIFICATION DEVICE CIRCUIT (NAC):	CLASS B
<u>NEW BUILDING G</u>	
OCCUPANCY TYPE:	A-2-B,E
BUILDING HEIGHT:	21'-10"
# OF STORES:	1
TYPE OF CONSTRUCTION:	V-B
SPRINKLERS:	YES (SEE FFP PLANS)
ALTERNATIVE PROTECTION:	NOT USED
FIRE ALARM SYSTEM TYPE:	CLASS B
INITIATION DEVICE CIRCUIT (ICD):	CLASS B
SIGNAL LINE CIRCUIT (SLC):	CLASS B
NOTIFICATION DEVICE CIRCUIT (NAC):	CLASS B

FIRE ALARM SHEET INDEX	
SHEET NUMBER	SHEET NAME
FA0.1	FIRE ALARM NOTES, SCHEDULES AND SHEET INDEX
FA0.2	FIRE ALARM DETAILS
FA0.3	FIRE ALARM DETAILS
FA1.1	FIRE ALARM SITE PLAN
FA2.1	BUILDING F FIRE ALARM
FA1.1	BUILDING M FIRE ALARM PLAN
FA5.1	FIRE ALARM RISER
FA5.2	FIRE ALARM CALCULATIONS



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		DSA SUBMITTAL	05/20/2019

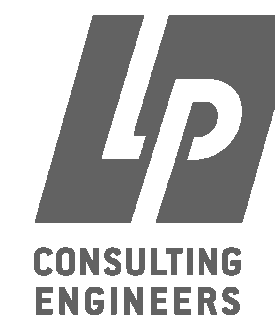








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	<input type="radio"/> BIDDING	
	<input type="radio"/> CONSTRUCTION	

## KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

## DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

## FIRE ALARM DETAILS

Date \_\_\_\_\_

05/20/2019

Scale

As indicated

Drawn

Project Number

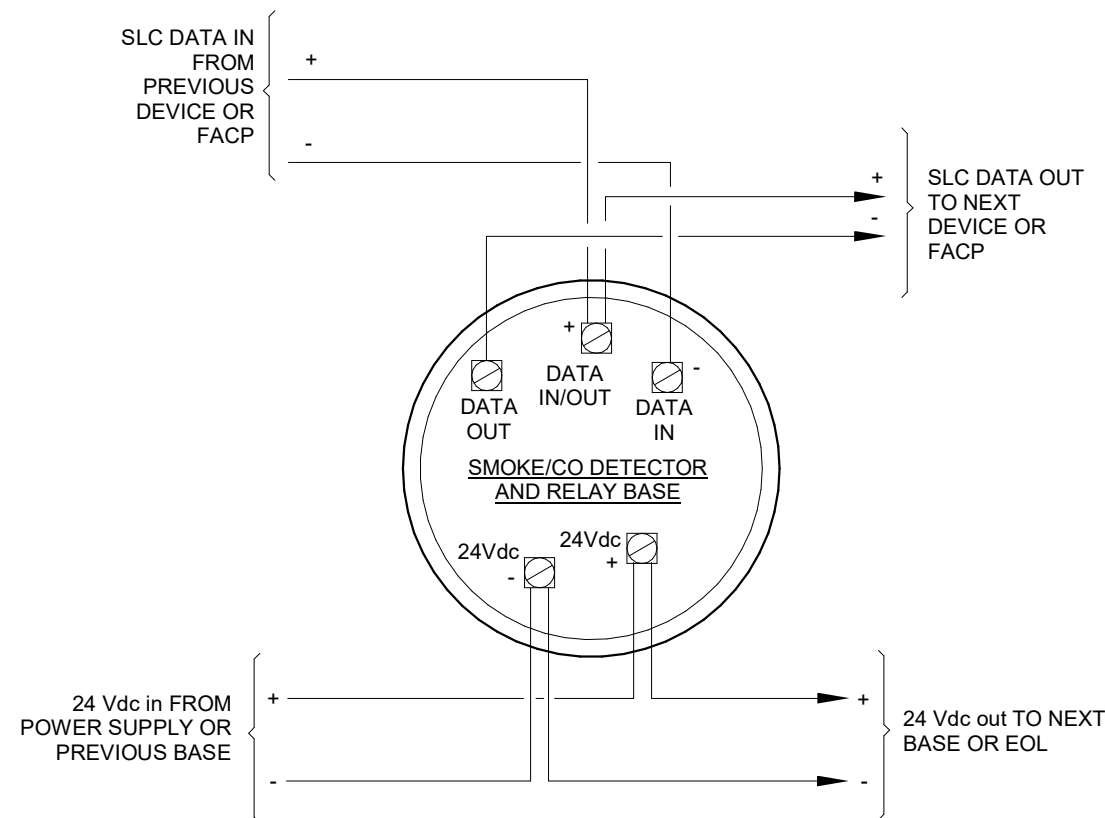
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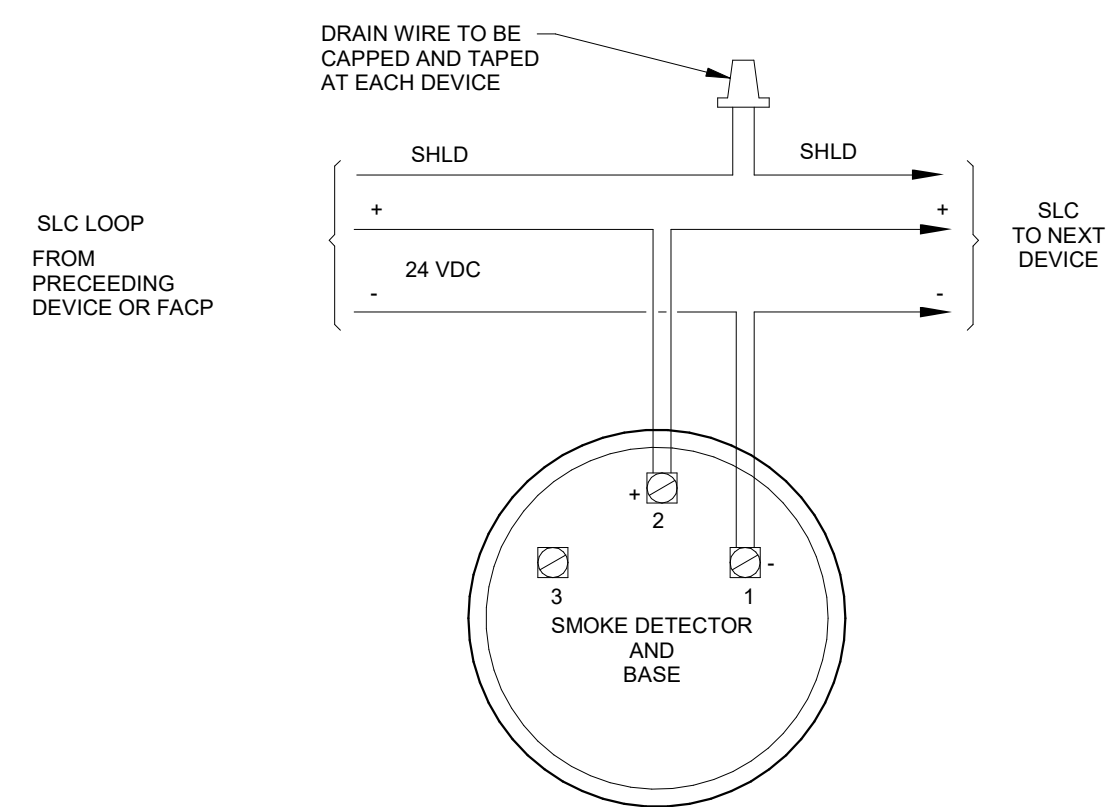
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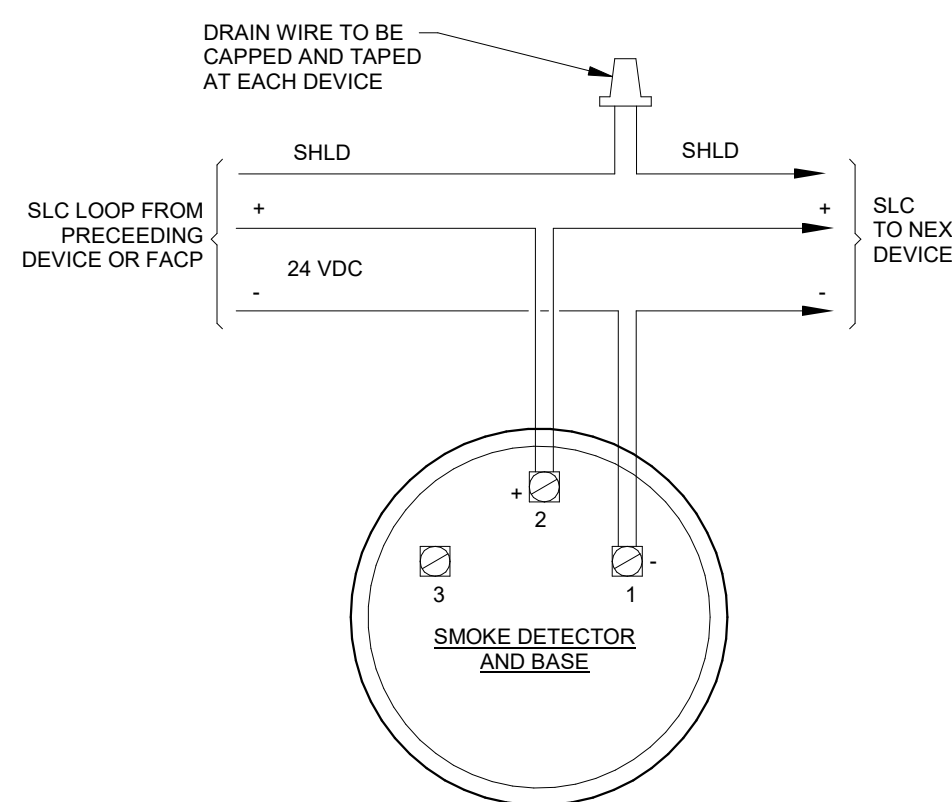
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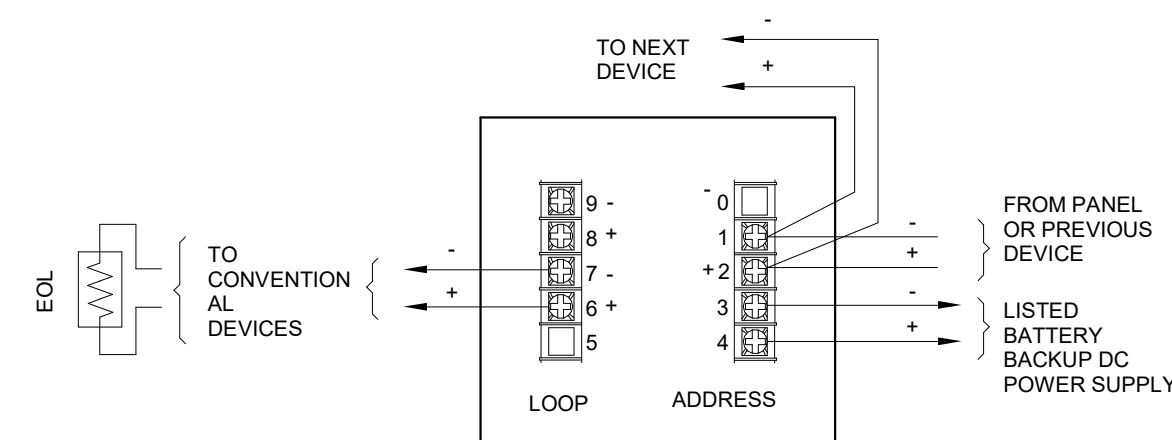
SMOKE/CO DETECTOR POINT-TO-POINT DIAGRAM	NTS	7
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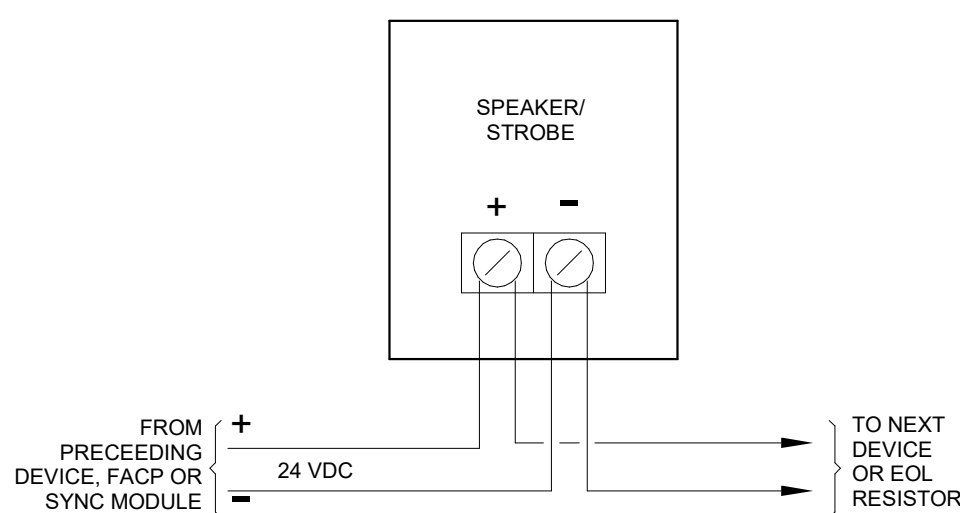
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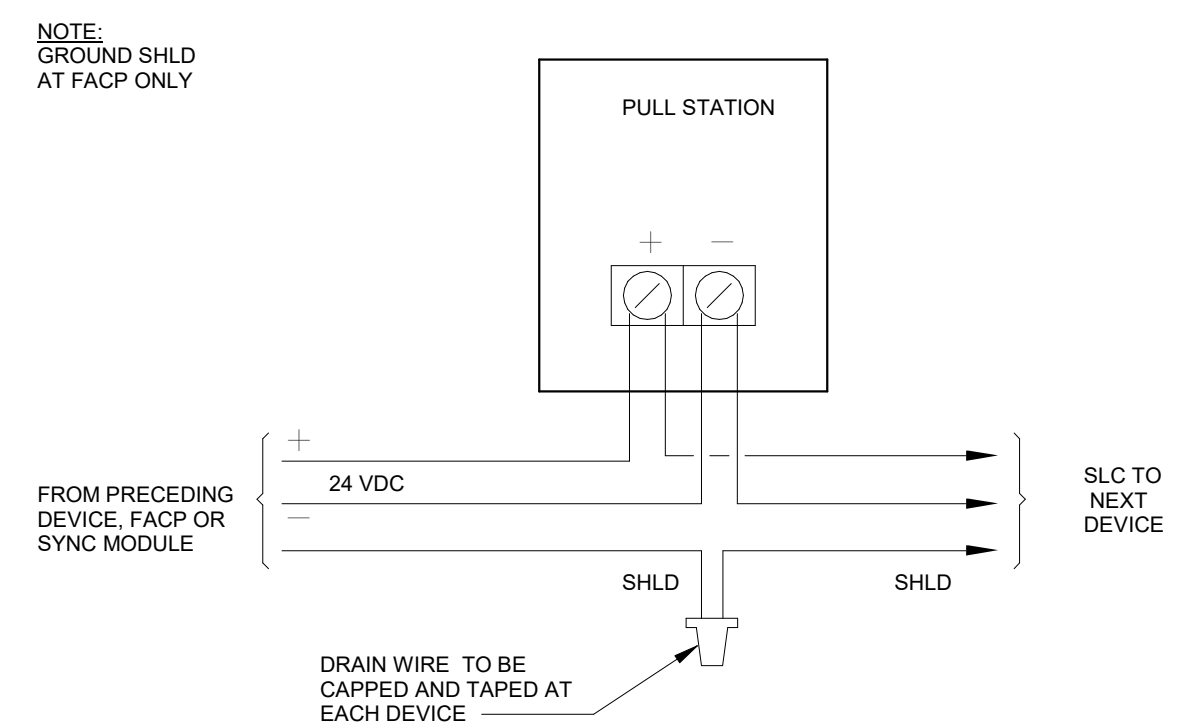
SMOKE DETECTOR POINT-TO-POINT DIAGRAM	NTS	6
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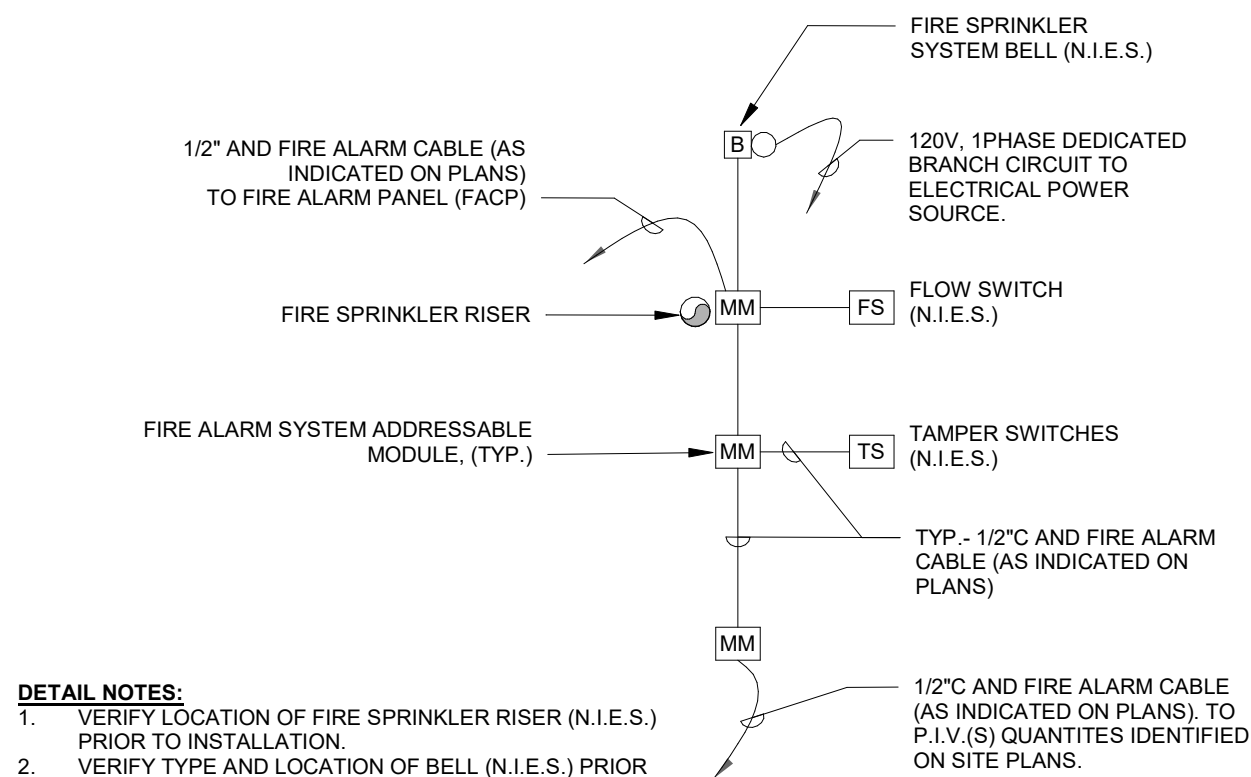
ADDRESSABLE MODULE WIRING DIAGRAM	NTS	3
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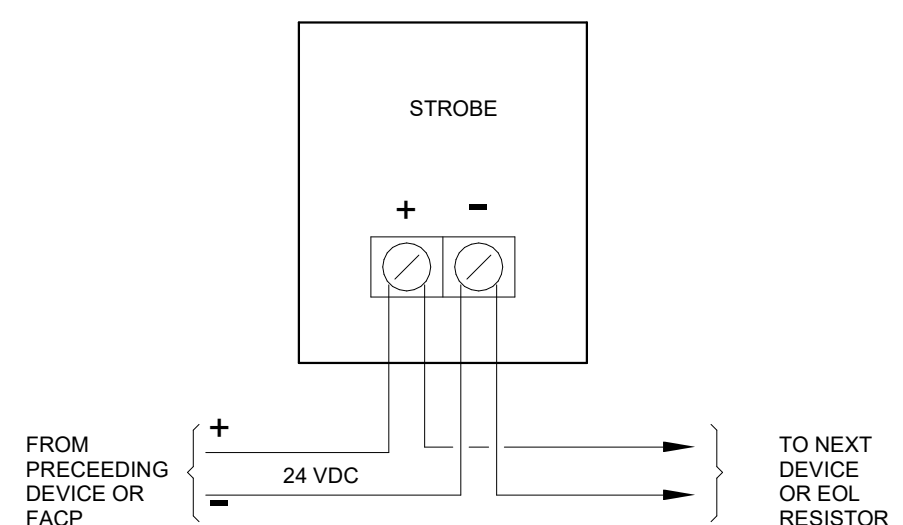
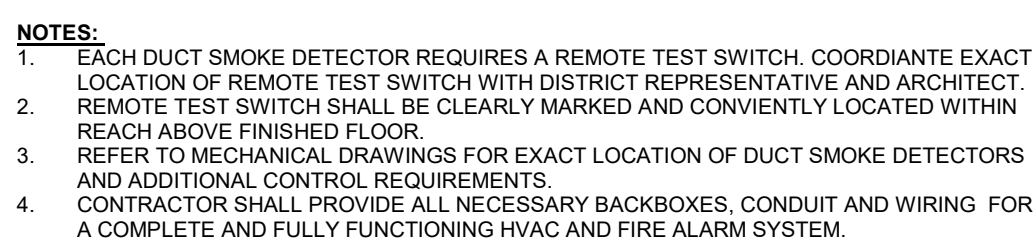
SPEAKER-STROBE POINT-TO-POINT DIAGRAM	NTS	10
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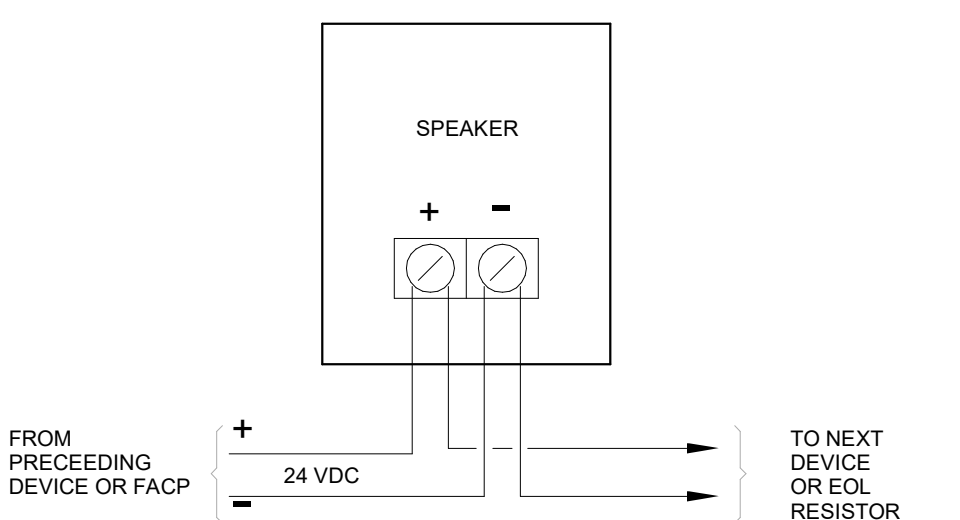
MANUAL PULL STATION POINT-TO-POINT DIAGRAM	NTS	5
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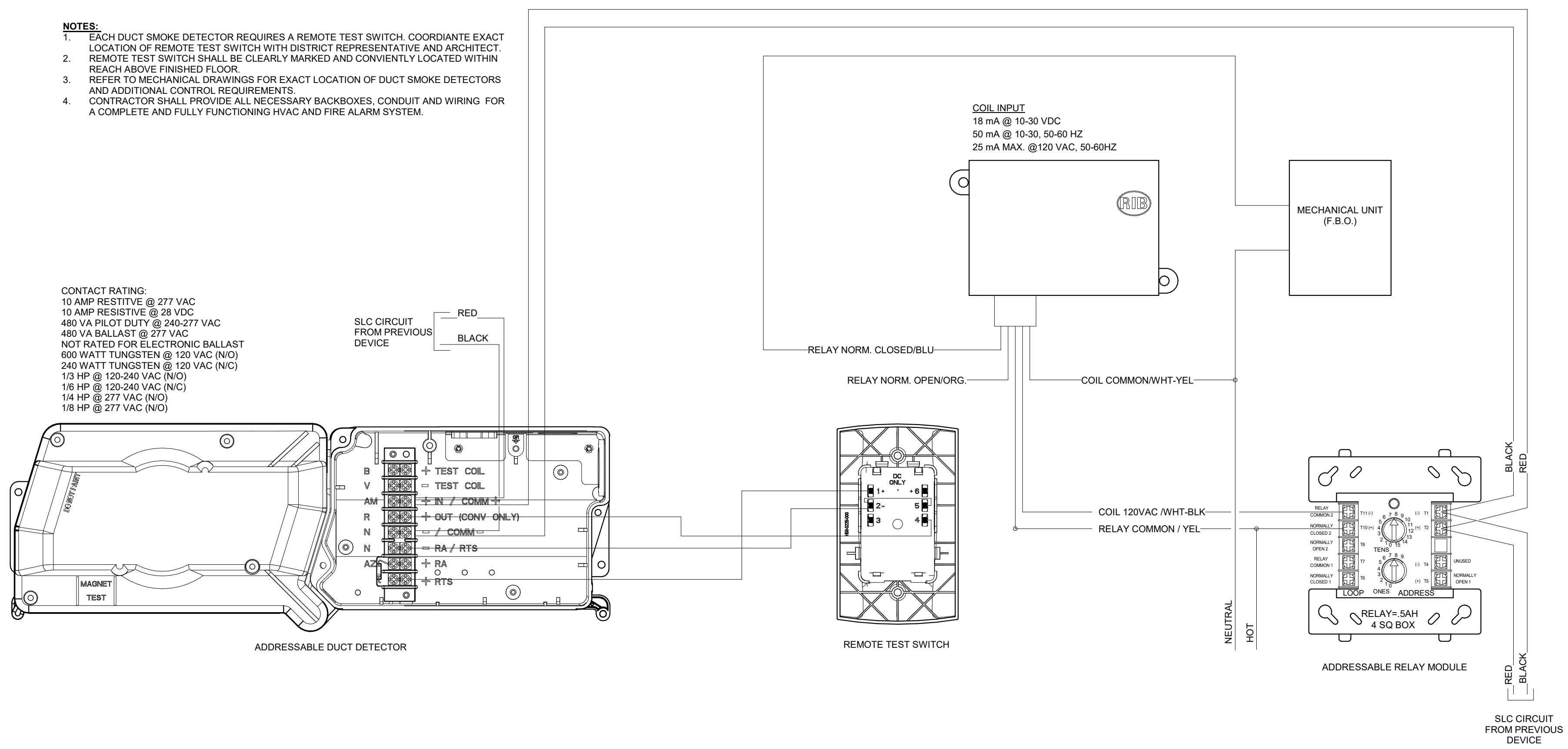
FIRE PROTECTION MONITORING WIRING DIAGRAM	NTS	2
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STROBE POINT-TO-POINT DIAGRAM	NTS	9
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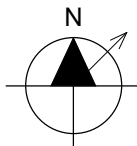
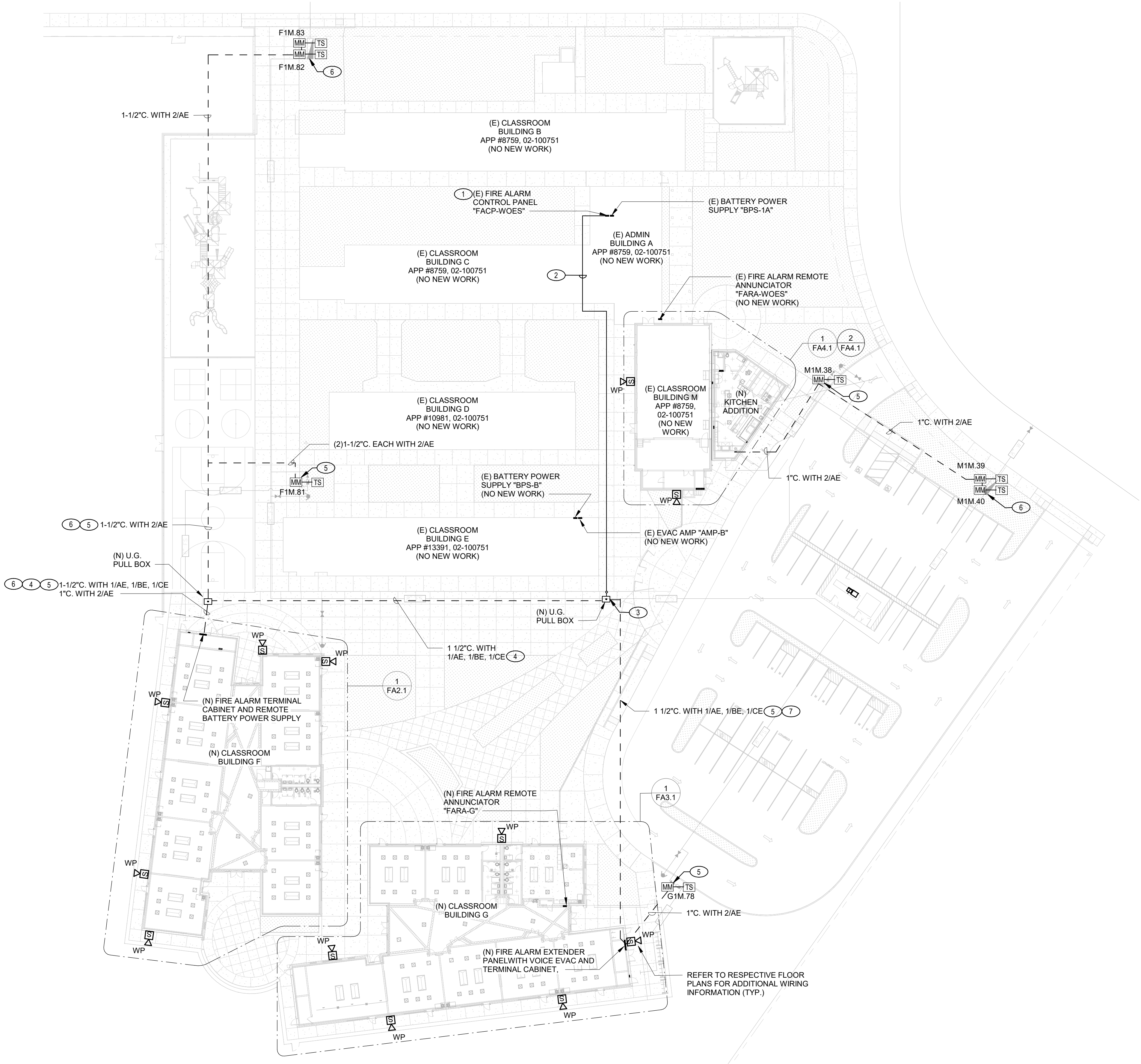


SPEAKER POINT-TO-POINT DIAGRAM	NTS	8



MECHNAICAL UNIT SHUTDOWN WIRING DIAGRAM	NTS	1
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SHEET NOTES

- CONTRACTOR SHALL COORDINATE LOCATION OF ALL UNDERGROUND PULL BOXES AND CONDUIT ROUTING WITH LANDSCAPE, CIVIL AND UTILITIES PLANS PRIOR TO TRENCHING. MAINTAIN 5 FEET CLEARANCE BETWEEN UNDERGROUND PULL BOXES/CONDUITS AND TREE TRUNKS.
- ALL ELECTRICAL EQUIPMENT AND DEVICES LOCATED OUTDOORS SHALL BE WEATHERPROOF/NEMA 3R RATED.
- ALL UNDERGROUND PULLBOXES SHALL HAVE GPS COORDINATES NOTED ON THE FINAL AS-BUILTS / CLOSEOUT DOCUMENTATION, PER DISTRICT STANDARDS.
- ALL UNDERGROUND PULLBOXES SHALL BE CLEAR DRAINS AND SEWER LINES.
- UNDERGROUND CONDUITS SHALL NOT RUN UNDER FIRE HYDRANT, FDG, ETC.
- ALL INTERIOR VOICE EVACUTATION SPEAKERS ARE TO BE TAPPED AT 1/4 WATT UNLESS OTHERWISE NOTED ON THESE PLANS.
- ALL EXTERIOR VOICE EVACUTATION SPEAKERS ARE TO BE TAPPED AT 2 WATT UNLESS OTHERWISE NOTED ON THESE PLANS.

KEY NOTES

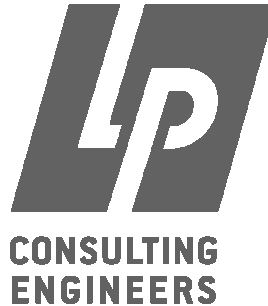
- (E) FACP TO REMAIN. INSTALL MODULES FOR EXPANSION OF SYSTEM AND CONNECT TO FIRE ALARM EXPANDER PANEL LOCATED IN BUILDING 'G'. (FAEP-G). PROVIDE AND INSTALL ALL NECESSARY HARDWARE AND PROGRAMMING FOR A COMPLETE AND FUNCTIONING SYSTEM.
- PENETRATE ROOF WITH NEW CONDUIT PER DETAIL X/FA0.2. ROUTE CONDUIT AND CONDUCTORS ON (E) CANOPY STRUCTURE PER DETAIL X/FA0.2 TO NEW PULL BOX AS INDICATED ON THESE PLANS.
- ROUTE CONDUIT AND CONDUCTORS DOWN (E) CANOPY SUPPORT COLUMN AND EXTEND TO NEW PULL BOX INDICATED ON THESE PLANS. REFER TO DETAIL X/FA0.2.
- ROUTE CONDUIT AND CONDUCTORS TO 'BPS-F' VIA 'FATC-F' AND CONNECT AS REQUIRED. PROVIDE AND INSTALL ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM.
- ROUTE CONDUIT AND CONDUCTORS TO P.I.V. TAMPER SWITCHES (N.I.E.S.) COORDINATE EXACT LOCATION WITH CIVIL ON-SITE PRIOR TO THE EXECUTION OF WORK. PROVIDE AND INSTALL ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM.
- ROUTE CONDUIT AND CONDUCTORS TO DOUBLE CHECK VALVE TAMPER SWITCHES (N.I.E.S.) COORDINATE EXACT LOCATION WITH CIVIL ON-SITE PRIOR TO THE EXECUTION OF WORK. PROVIDE AND INSTALL ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM.
- ROUTE CONDUIT AND CONDUCTORS TO NEW FIRE ALARM EXTENDER PANEL 'FAEP-G' LOCATED IN BUILDING 'G' ELECTRICAL ROOM AND CONNECT AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM.

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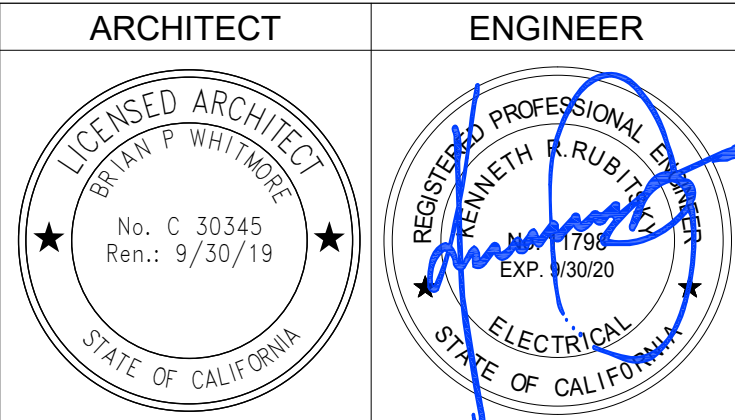
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<input type="radio"/> BIDDING	
<input type="radio"/> CONSTRUCTION	

KEY PLAN

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SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

FIRE ALARM SITE PLAN

Date

05/20/2019

Scale

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BLB

Project Number

19003

Drawing Number

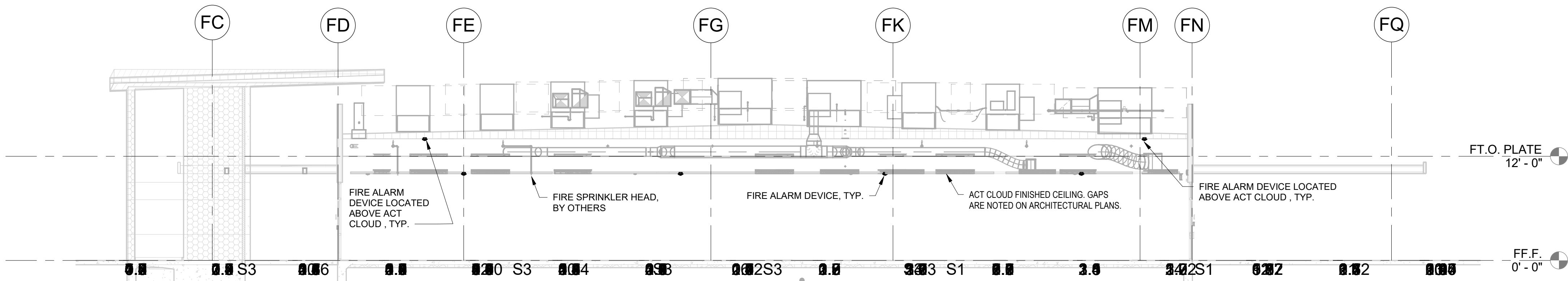
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FA1.1



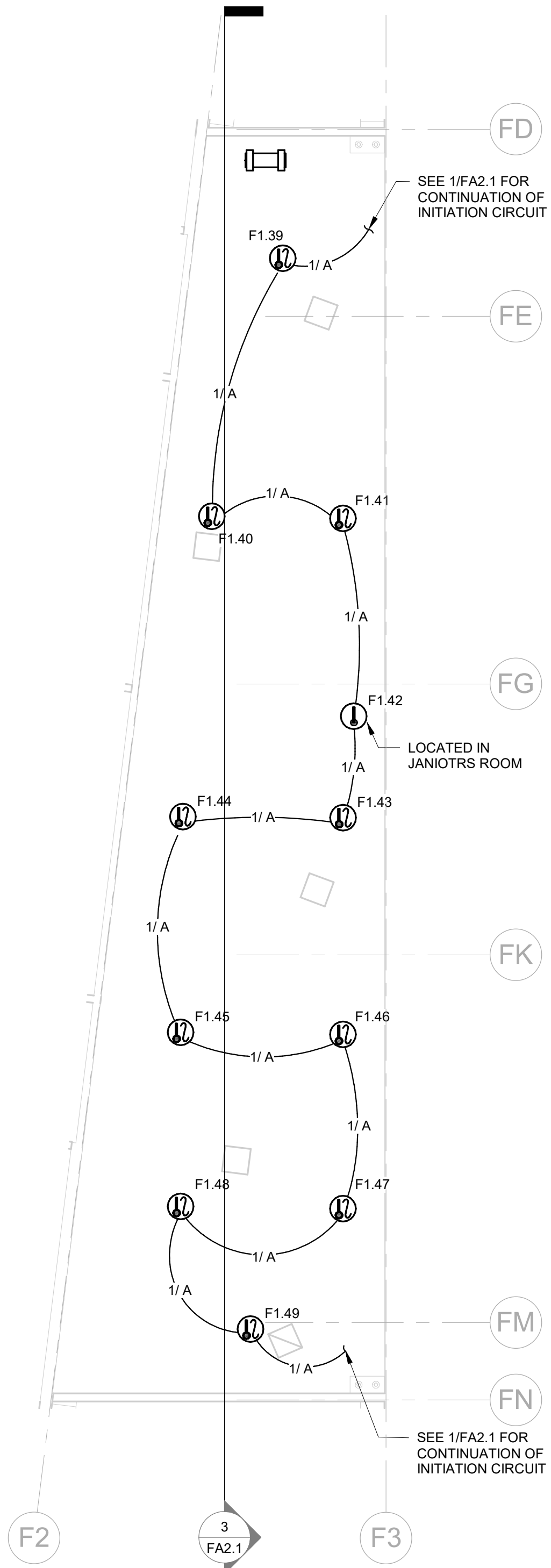


REF: 1 / FA2.1

Bldg F Fire Alarm Section

1/8" = 1'-0"

3



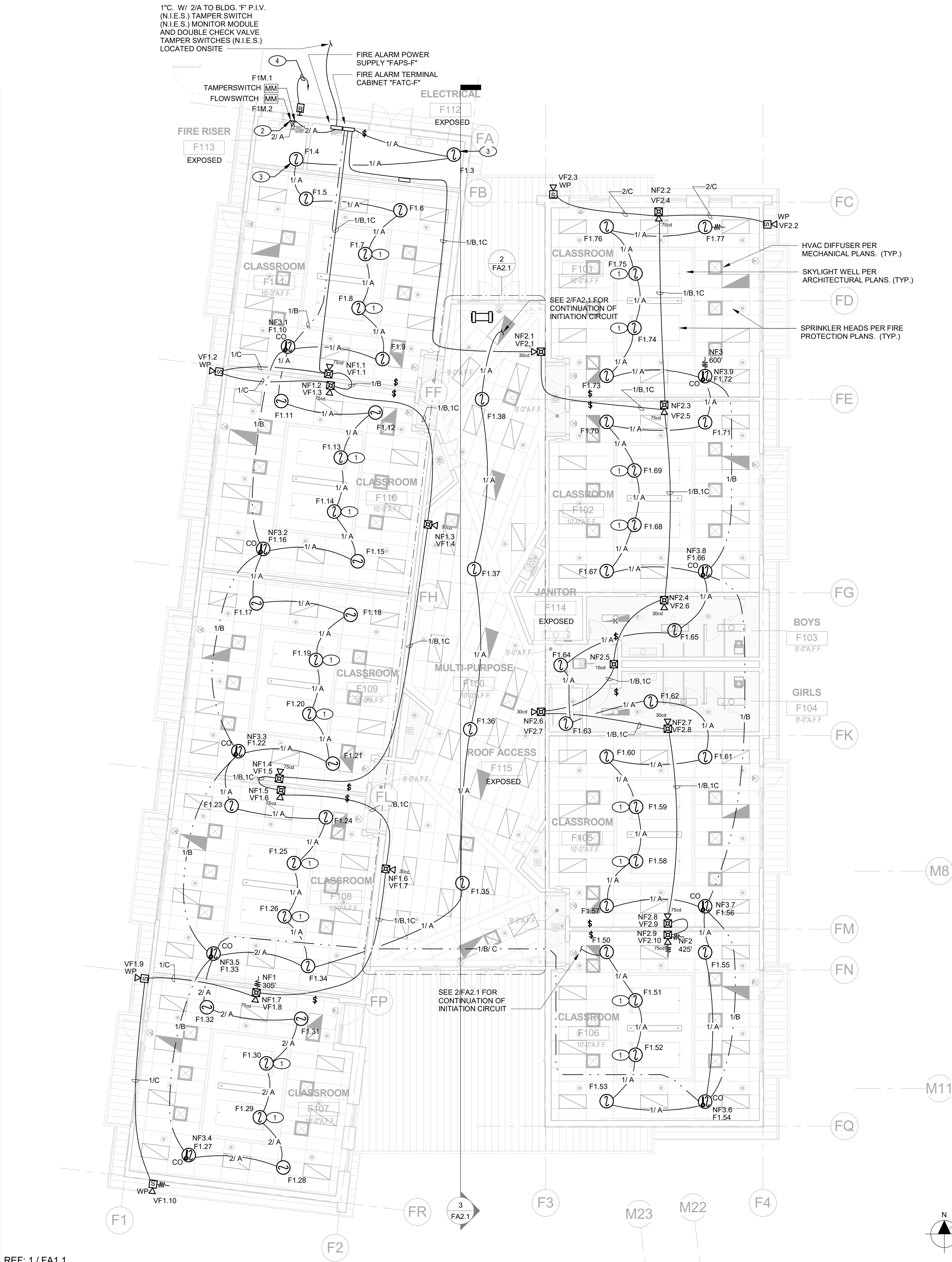
DETAIL NOTE:  
THESE DEVICES ARE LOCATED ABOVE THE  
ACT CLOUD REFLECTED CEILING TYPE. REFER  
TO ARCHITECTURAL PLANS AND STRUCTURAL  
PLANS TO VERIFY DETECTOR PLACEMENT.

REF: 1 / FA2.1

Bldg F Fire Alarm Plan - Multi-Purpose Above ACT Ceiling

1/8" = 1'-0"

2



REF: 1 / FA2.1

Bldg F Fire Alarm Plan

1/8" = 1'-0"

1

## SHEET NOTES

- WHERE DEVICE ARE SHOWN TO BE DEMOLISHED PER THESE PLANS THE CONTRACTOR SHALL REMOVE EXISTING FIRE ALARM EQUIPMENT, DEVICES, OUTLET BOX, CONDUIT AND WIRING. CAP ENDS OF ABANDONED CONDUITS AND LABEL AS ABANDONED.
- WHERE FIRE ALARM INITIATION DEVICES AND NOTIFICATION DEVICES ARE SHOWN AS NEW (N) THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY HARDWARE (DEVICES, BACKBOX, 3/4" CONDUIT U.N.O., JUNCTION BOXES AND CONDUCTORS AS INDICATED) TO EXTEND THE EXISTING PATHWAYS.
- ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
- ALL (N) CONDUIT IS 3/4". UNLESS OTHERWISE NOTED (U.N.O.).
- FIRE ALARM POWER SOURCE CIRCUITS SHALL BE DEDICATED AND INSTALLED PER NFPA 72, 10.6.5.2 USING RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY. COORDINATE WITH ELECTRICAL.
- ALL INTERIOR SPEAKERS SHALL BE SET AT 1/4WATT UNLESS OTHERWISE NOTED ON THESE PLANS.
- ALL EXTERIOR SPEAKERS SHALL BE SET AT 2 WATT UNLESS OTHERWISE NOTED ON THESE PLANS.

## KEY NOTES

- INSTALL DETECTOR IN HIGHEST EDGE OF SKYLIGHT WELL. COORDINATE EXACT LOCATION WITH SKYLIGHT WELL DETAILS PER ARCHITECTURAL PLANS.
- FIRE SPRINKLER RISER (BY OTHERS). COORDINATE EXACT LOCATION OF FLOW AND TAMPER SWITCHES (BY OTHERS) WITH FIRE PROTECTION PLANS AND CONNECT TO MONITOR MODULES. PROVIDE AND INSTALL ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM. SEE DETAIL 2/FA0.3 FOR ADDITIONAL REQUIREMENTS.
- CEILINGS IN THIS SPACE ARE EXPOSE TO ROOF STRUCTURE. INSTALL DETECTOR WITHIN 3'-0" OF PEAK PER NFPA 17.6.3.4.2.1.
- 120.1P DEDICATED BRANCH CIRCUIT FOR FIRE SPRINKLER RISER BELL (N.I.E.S.) REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION IN THE FIELD WITH SPRINKLER INSTALLER. PROVIDE AND INSTALL ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM.

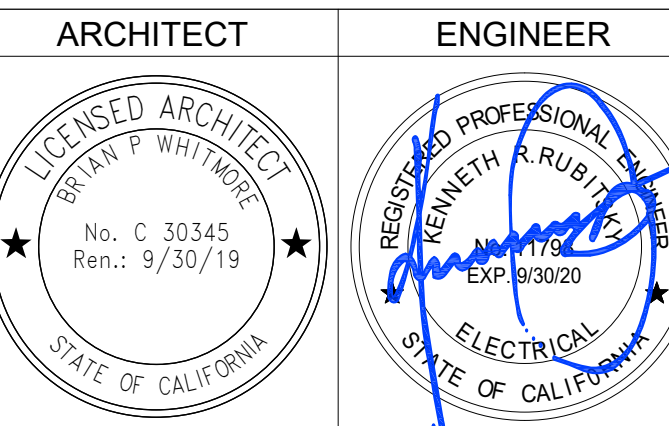
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## KEY PLAN

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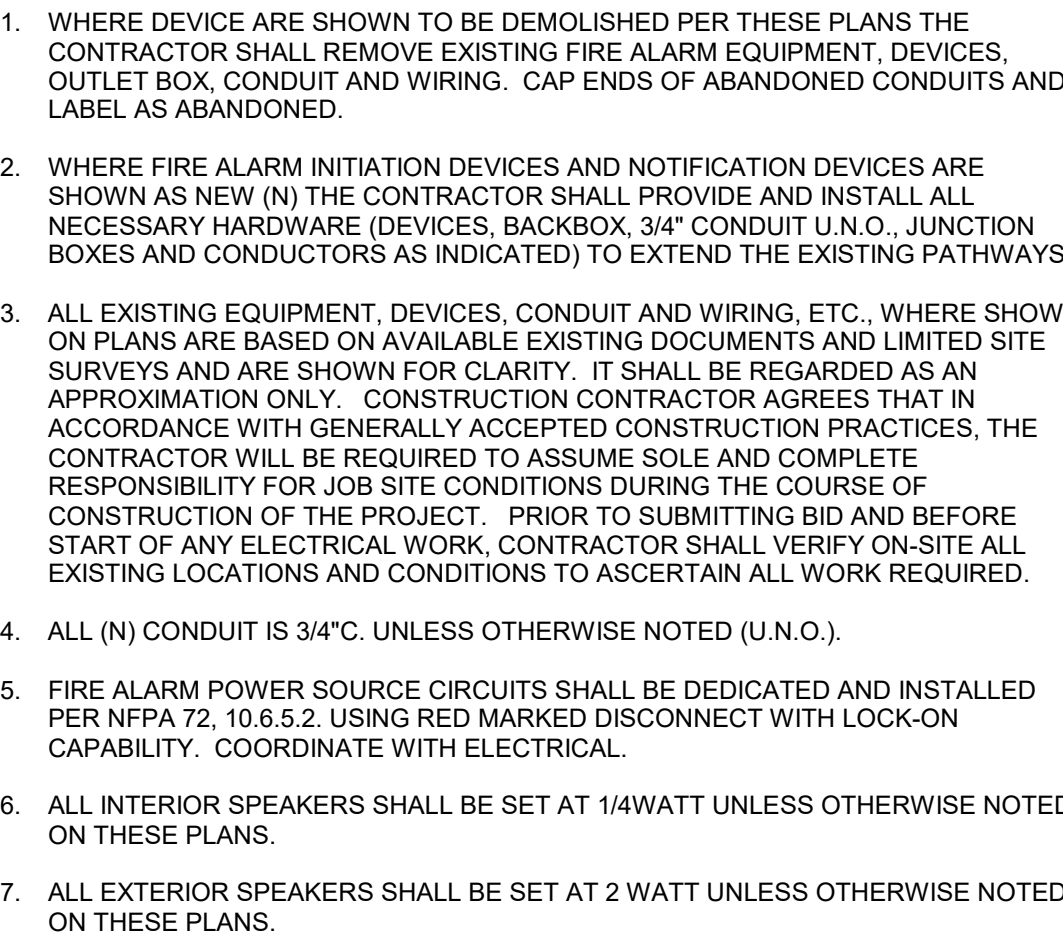
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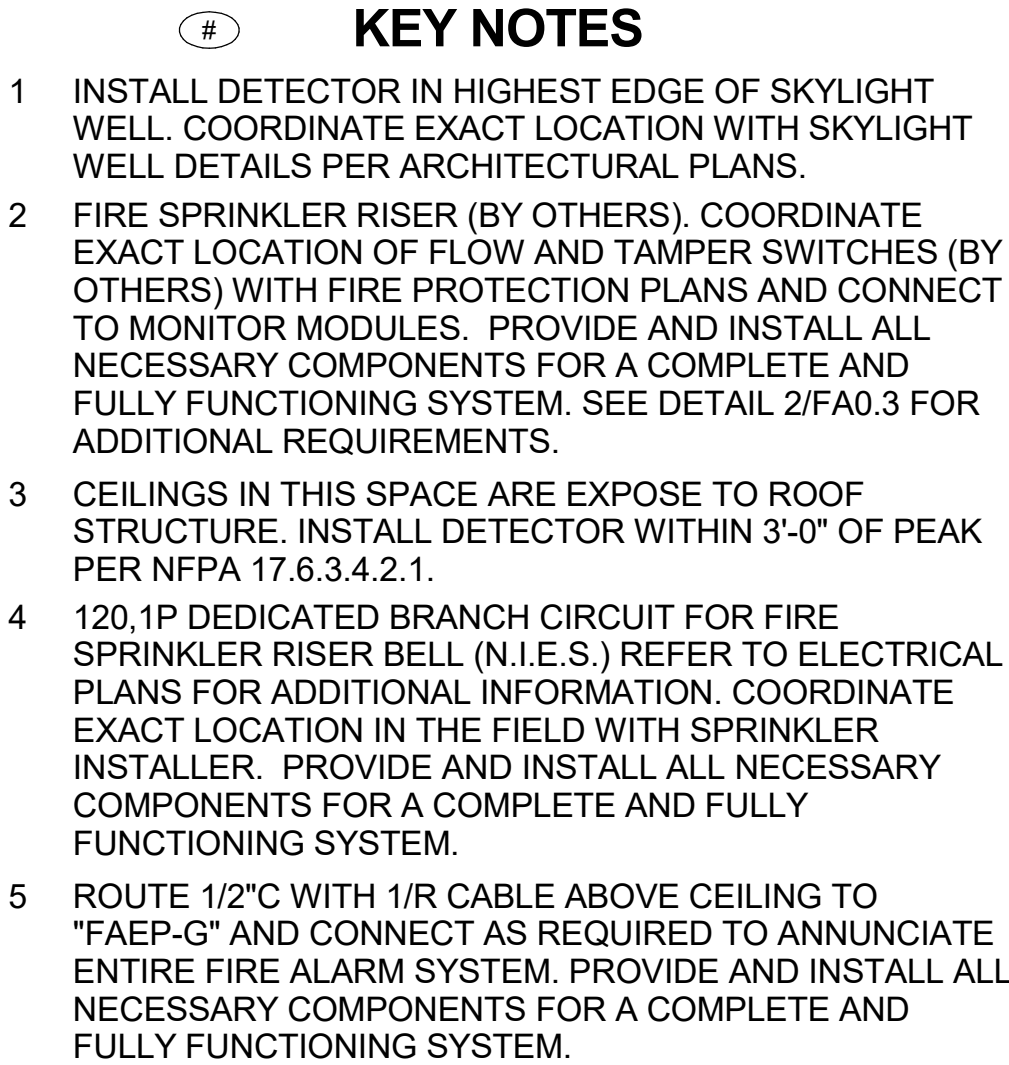
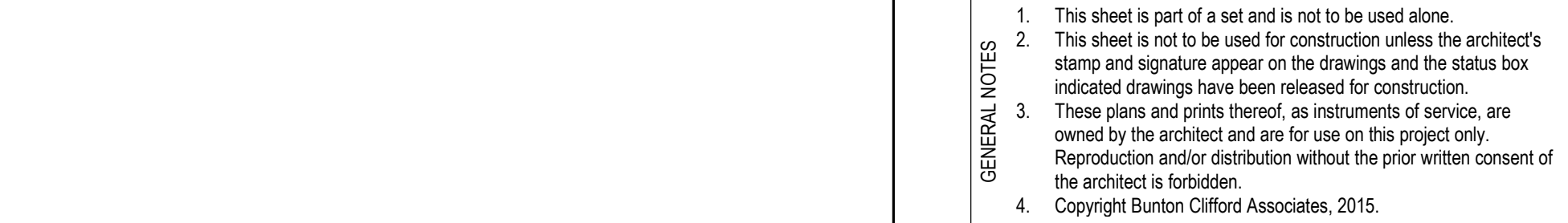
## BUILDING F FIRE ALARM

Date 05/20/2019	Project Number 19003
Scale As indicated	Drawing Number FA2.1
Drawn BLB	Checked JL





3


$$1/8'' = 1'-0''$$


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## DESIGN DEVELOPMENT

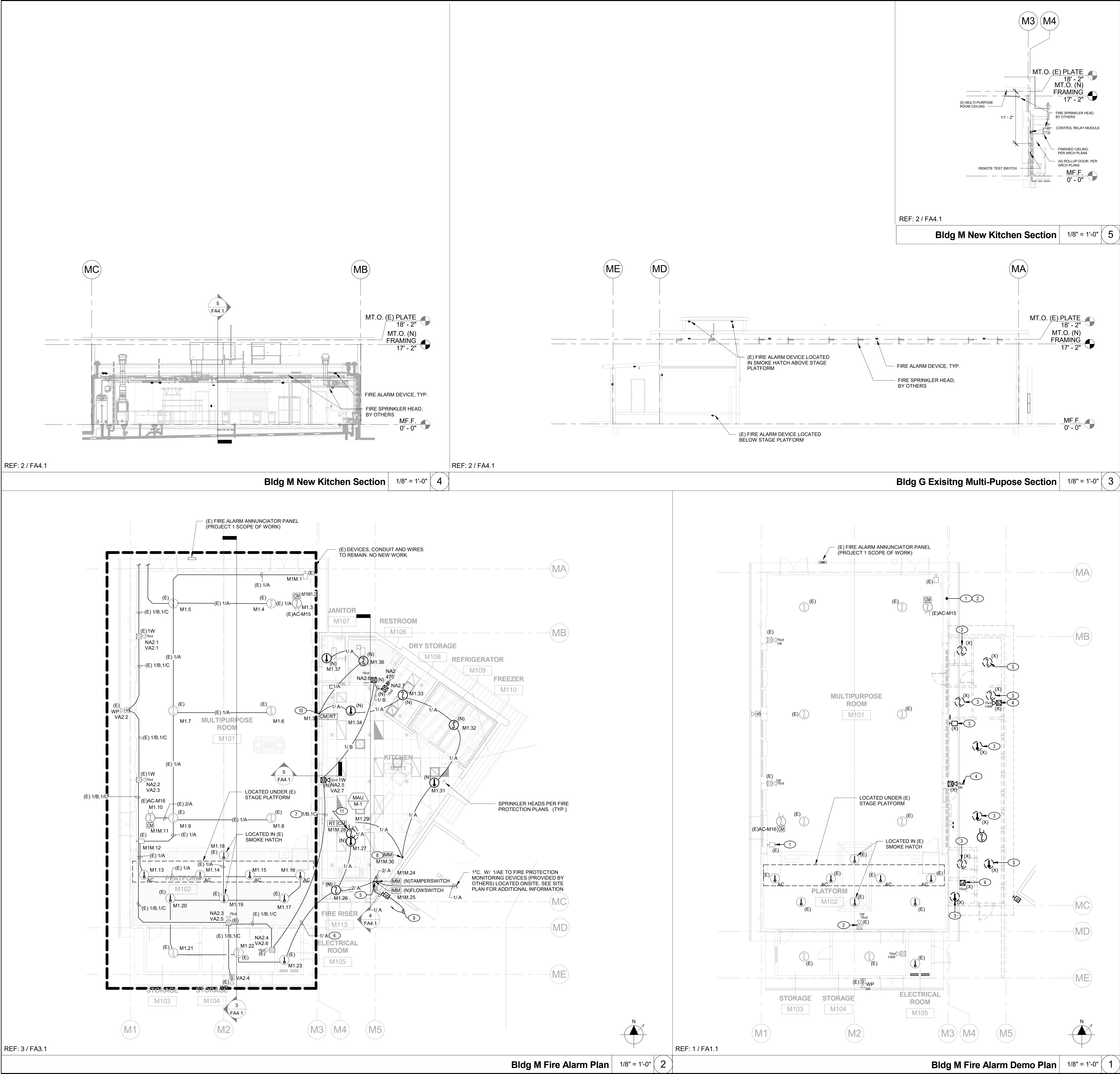
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## BUILDING G FIRE ALARM

ГЛ 2

## FA3.1





SHEET NOTES

- ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
- CONTRACTOR SHALL PROTECT THOSE FIRE ALARM DEVICES THAT ARE EXISTING TO REMAIN DURING CONSTRUCTION PER NFPA 72, 17.7.1.11. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF DEVICES WHICH BECOME DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES TO MATCH ADJACENT FINISHED SURFACE (WALL, CEILING OR FLOOR). THIS INCLUDES BUT IS NOT LIMITED PATCH AND PAINT.
- WHERE DEVICE ARE SHOWN TO BE DEMOLISHED PER THESE PLANS THE CONTRACTOR SHALL REMOVE EXISTING FIRE ALARM EQUIPMENT, DEVICES, OUTLET BOX, CONDUIT AND WIRING. CAP ENDS OF ABANDONED CONDUITS AND LABEL AS ABANDONED.
- WHERE DEVICE ARE SHOWN TO BE DEMOLISHED PER THESE PLANS THE CONTRACTOR SHALL REMOVE EXISTING FIRE ALARM EQUIPMENT, DEVICES, OUTLET BOX, CONDUIT AND WIRING. CAP ENDS OF ABANDONED CONDUITS AND LABEL AS ABANDONED.
- WHERE FIRE ALARM INITIATION DEVICES AND NOTIFICATION DEVICES ARE SHOWN AS NEW (N) THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY HARDWARE (DEVICES, BACKBOX, 3/4" CONDUIT U.N.O., JUNCTION BOXES AND CONDUCTORS AS INDICATED) TO EXTEND THE EXISTING PATHWAYS.
- ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
- ALL (N) CONDUIT IS 3/4". UNLESS OTHERWISE NOTED (U.N.O.).
- FIRE ALARM POWER SOURCE CIRCUITS SHALL BE DEDICATED AND INSTALLED PER NFPA 72, 10.6.5.2. USING RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY. COORDINATE WITH ELECTRICAL.
- ALL INTERIOR SPEAKERS SHALL BE SET AT 1/4WATT UNLESS OTHERWISE NOTED ON THESE PLANS.
- ALL EXTERIOR SPEAKERS SHALL BE SET AT 2 WATT UNLESS OTHERWISE NOTED ON THESE PLANS.

KEY NOTES

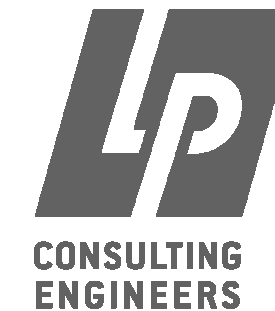
- (E) DEVICES SHALL REMAIN. MAINTAIN CIRCUIT CONTINUITY OF REMAINING FIRE ALARM INITIATION DEVICE CIRCUIT (IDC).
- (E) DEVICES SHALL REMAIN. MAINTAIN CIRCUIT CONTINUITY OF REMAINING FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT (NAC).
- DISCONNECT AND REMOVE (E) DEVICES (INCLUDING BACKBOX, CONDUIT & CONDUCTORS) BACK TO LAST REMAINING DEVICE IN THIS BUILDING. MAINTAIN CIRCUIT CONTINUITY OF REMAINING FIRE ALARM INITIATION DEVICE CIRCUIT (IDC).
- DISCONNECT AND REMOVE (E) DEVICES (INCLUDING BACKBOX, CONDUIT & CONDUCTORS) BACK TO LAST REMAINING DEVICE IN THIS BUILDING. MAINTAIN CIRCUIT CONTINUITY OF REMAINING FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT (NAC).
- FIRE SPRINKLER RISER (BY OTHERS). COORDINATE EXACT LOCATION OF FLOW AND TAMPER SWITCHES (BY OTHERS) WITH FIRE PROTECTION PLANS AND CONNECT TO MONITOR MODULES. PROVIDE AND INSTALL ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM. SEE DETAIL 2/FA0.3 FOR ADDITIONAL REQUIREMENTS.
- INTERCEPT AND EXTEND (E) IDC. AND CONNECT AS REQUIRED. PROVIDE AND INSTALL ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM.
- INTERCEPT AND EXTEND (E) NAC. AND CONNECT AS REQUIRED. PROVIDE AND INSTALL ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM.
- CONTRACTOR SHALL CONNECT MONITOR MODULE TO ANSUL SYSTEM (PROVIDED BY OTHERS) FOR FIRE ALARM SYSTEM INITIATION UPON ANSUL SYSTEM INITIATION. REFER TO FOOD SERVICE PLANS FOR ADDITIONAL INFORMATION. PROVIDE AND INSTALL ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM.
- 120.1P DEDICATED BRANCH CIRCUIT FOR FIRE SPRINKLER RISER BELL (N.I.E.S.) REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION IN THE FIELD WITH SPRINKLER INSTALLER. PROVIDE AND INSTALL ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM.
- ROLL DOWN DOOR AT THIS LOCATION, FRAMING PER ARCH PLANS. CONNECT CONTROL MODULE TO FIRE DOOR OUTPUT CONTROL BOARD (PROVIDED BY DOOR MANUFACTURER) FOR CLOSURE UPON AREA DETECTION. COORDINATE EXACT LOCATION OF REMOTE TEST SWITCH WITH ARCHITECT PRIOR TO ROUGH-IN. COORDINATE EXACT LOCATION OF DOOR COMPONENTS AND ANY ADDITIONAL REQUIREMENTS WITH DOOR SUPPLIER. PROVIDE ALL NECESSARY COMPONENTS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM.
- DUCT SMOKE DETECTOR PER MECHANICAL PLANS. CONNECT CONTROL MODULE AND REMOTE TEST SWITCH AS REQUIRED TO RESPECTIVE MECHANICAL UNIT FOR POWER SHUTDOWN. REFER TO WIRING DIAGRAM DETAIL 1/FA-002. SEE FOOD SERVICE PLANS, MECHANICAL SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION. PROVIDE ALL NECESSARY HARDWARE AND PROGRAMMING FOR A FULLY FUNCTIONING SYSTEM.

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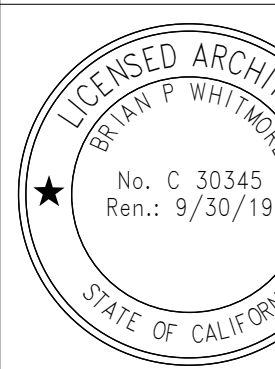


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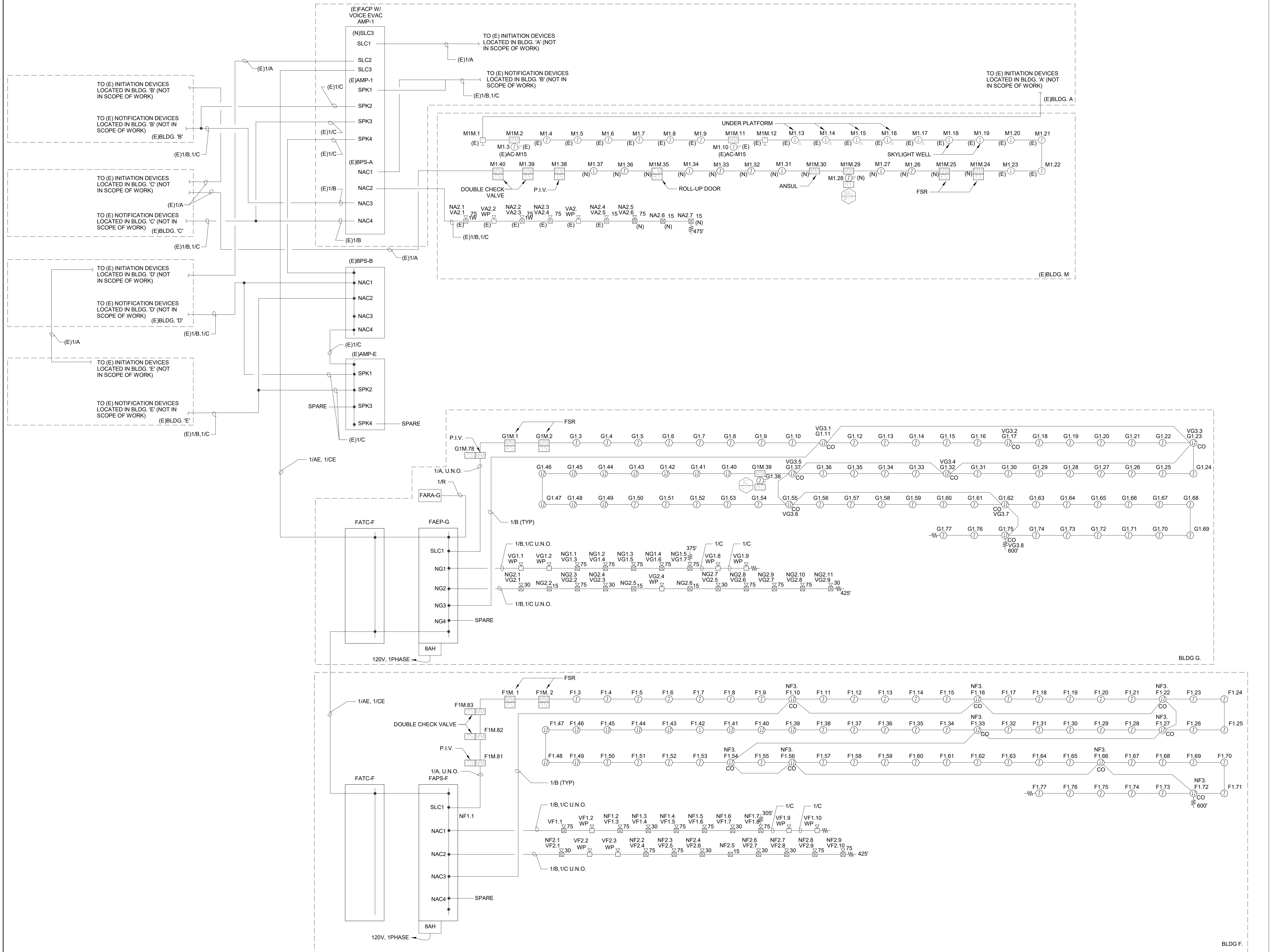
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BUILDING M FIRE ALARM  
PLAN

Date 05/20/2019	Project Number 19003
Scale As indicated	Drawing Number FA4.1
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FIRE ALARM RISER DIAGRAM

12" = 1'-0"

1

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FIRE ALARM RISER

Date: 05/20/2019  
Scale: 12" = 1'-0"  
Drawn: BLB  
Checked: JL

Project Number: 19003  
Drawing Number: FA5.1



(E) REMOTE AMPLIFICATION PANEL (AMP-1)					
BATTERY CALCULATION					
	QUANTITY	STANDBY CURRENT		ALARM CURRENT	
		AMPS	TOTAL	AMPS	TOTAL
50W AMP	1	0.01	0.01		
SPEAKER	5		0	0.041	0.205
EXISTING SPEAKERS		0	0		1.1025
TOTAL			0.01		1.3075
TOTAL 24 HR STANDBY			0.24		
TOTAL 15 MIN ALARM					0.326875
TOTAL REQUIRED AH	0.566875				
+20% SPARE	0.68025				
BOOSTER AH	7				

(E) SPEAKER AMP-1 CALCULATION			
TOTAL WATTAGE USED		30	
TOTAL WATTAGE AVAILABLE		50	
PERCENTAGE REMAINING		40.00%	
DEVICE	QTY	Wattage Used	Wattage Available
EXISTING SPEAKERS		25	25
1/4 WATT SPKR		0	25
1/2 WATT SPKR		0	25
3/4 WATT SPKR		0	25
1 WATT SPKR	5	0	20
2 WATT SPKR		0	20

FIRE ALARM CONTROL PANEL (FACP)						
BATTERY CALCULATIONS						
		STANDBY CURRENT		ALARM CURRENT		
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL	
(E) FACP (ADDRESSIBLE)	1	0.275	0.275	0.44	0.44	
HEAT DETECTOR	10	0.0003	0.003	0.0065	0.065	
SMOKE DETECTOR	36	0.0003	0.0108	0.0065	0.234	
CO DETECTOR	0	0.0003	0	0.008	0	
MONITOR MODULE	0	0.004	0	0.008	0	
CONTROL MODULE	0	0.004	0	0.008	0	
POWER BOOSTER	0	0.075	0	0.205	0	
AMP-1	1		0.01		1.3075	
AMP-2	1		0.01		1.211	
15CD HORN/STROBE	0	0	0	0.086	0	
30CD HORN/STROBE	0	0	0	0.12	0	
60CD HORN/STROBE	0	0	0	0.174	0	
110CD HORN/STROBE	0	0	0	0.224	0	
15CD STROBE	0	0	0	0.047	0	
30CD STROBE	0	0	0	0.081	0	
60CD STROBE	0	0	0	0.128	0	
110CD STROBE	0	0	0	0.166	0	
HORN	0	0	0	0.041	0	
TOTAL			0.3088		3.2575	
TOTAL 24 HR STANDBY			7.4112			
TOTAL 15 MIN ALARM						0.2763
TOTAL REQUIRED AH	7.68483					
+20% SPARE	9.221796					

TOTAL 24 HR STANDBY		7.4112	
TOTAL 15 MIN ALARM			0.27363
TOTAL REQUIRED AH	7.68483		
+20%SPARE	9.221796		

VOLTAGE DROP CALCULATIONS (E) BPS-1A																
CIRCUIT NO.	BLDG	PANEL	INTERIOR SPEAKER 96dBa @ 0.075 A	EXTERIOR SPEAKER 99dBa @ 0.075 A	SPEAKER STROBE 15cd @ 0.041 A	SPEAKER STROBE 30cd @ 0.063 A	SPEAKER STROBE 75cd @ 0.111 A	SPEAKER STROBE 110cd @ 0.158 A	STROBE ONLY 15cd @ 0.041 A	STROBE ONLY 30cd @ 0.063 A	WIRE SIZE (AWG)	RESISTANCE (IN OHMS/ 1000FT)	LENGTH (IN FEET)	TOTAL CURRENT (IN AMPS)	VOLTAGE DROP	% OF VOLTAGE DROP
(E) N1	A	BPS-1A					5		2		12	1.98	312	0.555	0.69	2.86%
(E) N2	M			2	1						12	1.98	475	0.717	1.35	5.62%
(E) N3	B								1	1	12	1.98	360	0.548	0.78	3.26%
(E) N4	C						5		7		12	1.98	625	0.842	2.08	8.68%

POWER BOOSTER PANEL '(E) BPS-1A'					
BATTERY CALCULATIONS					
		STANDBY CURRENT		ALARM CURRENT	
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL
BOOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056
15CD SPKR/STROBE	1	0	0	0.041	0.041
30CD SPKR/STROBE	0	0	0	0.063	0
75CD SPKR/STROBE	18	0	0	0.111	1.998
110CD SPKR/STROBE	0	0	0	0.158	0
15CD STROBE	10	0	0	0.041	0.41
30CD STROBE	1	0	0	0.063	0.063
TOTAL			0.056		2.568
TOTAL 24 HR STANDBY			1.344		
TOTAL 15 MIN ALARM					0.642
TOTAL REQUIRED AH	1.986				
+20% SPARE	2.3832				
BOOSTER AH	7				

(E) BATTERY SUPPLY: (2) 12VOLT @ 10 AMP HOUR EACH = 24VOLTS, 10 AMP HOURS

REMOTE AMPLIFICATION PANEL (AMP-G)				
BATTERY CALCULATION				
		STANDBY CURRENT		ALARM CURRENT
DEVICE	QUANTITY	AMPS	TOTAL	TOTAL
50W AMP	1	0.01		0
SPEAKER	37		0	1.517
TOTAL			0.01	1.517
TOTAL 24 HR STANDBY			0.24	
TOTAL 15 MIN ALARM				0.37925
TOTAL REQUIRED AH	0.61925			
+20%SPARE	0.7431			
BOOSTER AH	7			

SPEAKER AMP-G CALCULATION			
TOTAL WATTAGE USED		37	
TOTAL WATTAGE AVAILABLE		50	
PERCENTAGE REMAINING		26.00%	
DEVICE	QTY	Wattage Used	Wattage Available
1/4 WATT SPKR	28	0	22
1/2 WATT SPKR	0	0	22
3/4 WATT SPKR	0	0	22
1 WATT SPKR	0	0	22
2 WATT SPKR	9	9	13

FIRE ALARM EXTENDER PANEL 'FAEP-G'					
BATTERY CALCULATIONS					
DEVICE	QUANTITY	STANDBY CURRENT		ALARM CURRENT	
		AMPS	TOTAL	AMPS	TOTAL
FAEP (ADDRESSIBLE)	1	0.275	0.275	0.44	0.44
HEAT DETECTOR	1	0.0003	0.0003	0.0065	0.0065
SMOKE DETECTOR	110	0.0003	0.033	0.0065	0.715
SMOKE/HEAT DETECTOR	20	0.0003	0.006	0.0065	0.13
DUCT SMOKE DETECTOR	1	0.0003	0.0003	0.0065	0.0065
CO/SMOKE DETECTOR	17	0.0003	0.0051	0.0065	0.1105
MONITOR MODULE	14	0.004	0.056	0.008	0.112
CONTROL MODULE	1	0.004	0.004	0.008	0.008
15CD HORN/STROBE	0		0	0.088	
30CD HORN/STROBE	4		0	0.12	0.48
75CD HORN/STROBE	9		0	0.174	1.566
110CD HORN/STROBE	0		0	0.224	0
15CD STROBE	3		0	0.047	0.141
30CD STROBE	0		0	0.081	0
75CD STROBE	0		0	0.128	0
110CD STROBE	0		0	0.166	0
EXTERIOR SPEAKER	4		0	0.041	0.164
TOTAL			0.3797		3.8795
TOTAL 24 HR STANDBY			9.1128		
TOTAL 15 MIN ALARM					0.0969875
TOTAL REQUIRED AH	9.2097875				
+20% SPARE	11.051745				
FAEP FACTOR	18				

BATTERY SUPPLY: (2) 12VOLT @ 10 AMP HOUR EACH = 24VOLTS, 10 AMP HOURS

POWER BOOSTER PANEL 'FAPS-F'					
BATTERY CALCULATIONS					
DEVICE	QUANTITY	STANDBY CURRENT		ALARM CURRENT	
		AMPS	TOTAL	AMPS	TOTAL
BOOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056
15CD SPKR/STROBE	0		0	0.041	0
30CD SPKR/STROBE	6		0	0.063	0.378
75CD SPKR/STROBE	9		0	0.111	0.999
110CD SPKR/STROBE	0		0	0.158	0
15CD STROBE	1		0	0.041	0.041
30CD STROBE	0		0	0.063	0
TOTAL			0.056		1.474
TOTAL 24 HR STANDBY			1.344		
TOTAL 15 MIN ALARM					0.3685
TOTAL REQUIRED AH	1.7125				
+20% SPARE	2.055				
BOOSTER AH	8				

(E) BATTERY SUPPLY: (2) 12VOLT @ 10 AMP HOUR EACH = 24VOLTS, 10 AMP HOURS

VOLTAGE DROP CALCULATIONS BPS-F																	
CIRCUIT NO.	FLOOR	PANEL	CO SOUNDER 87dBa @ 0.070	INTERIOR SPEAKER 96dB A @ 0.075 A	EXTERIOR SPEAKER 99dB A @ 0.075 A	SPEAKER STROBE 15cd @ 0.041 A	SPEAKER STROBE 30cd @ 0.063 A	SPEAKER STROBE 75cd @ 0.111 A	SPEAKER STROBE 110cd @ 0.158 A	STROBE ONLY 15cd @ 0.041 A	STROBE ONLY 30cd @ 0.063 A	WIRE SIZE (AWG)	RESISTANCE (IN OHMS/ 1000FT)	LENGTH (IN FEET)	TOTAL CURRENT (IN AMPS)	VOLTAGE DROP	% OF VOLTAGE DROP
NF1	1ST	BPS-F			3	2	5					12	1.98	305	0.906	1.09	4.56%
NF2	1ST				2	4			1			12	1.98	325	0.887	1.14	4.76%
NF3	1ST		9									12	1.98	600	0.630	1.50	6.24%
SPARE	1ST											12	1.98				

VOLTAGE DROP CALCULATIONS FAEP-G																	
CIRCUIT NO.	FLOOR BLDG	PANEL	CO SOUNDER 87dB A 0.070	INTERIOR SPEAKER 96dB A @ 0.075 A	EXTERIOR SPEAKER 99dB A @ 0.075 A	SPEAKER STROBE 15cd @ 0.041 A	SPEAKER STROBE 30cd @ 0.063 A	SPEAKER STROBE 75cd @ 0.111 A	SPEAKER STROBE 110cd @ 0.158 A	STROBE ONLY 15cd @ 0.041 A	STROBE ONLY 30cd @ 0.063 A	WIRE SIZE (AWG)	RESISTANCE (IN OHMS/ 1000FT)	LENGTH (IN FEET)	TOTAL CURRENT (IN AMPS)	VOLTAGE DROP	% OF VOLTAGE DROP
NG1	1ST	FAEP-G			3			5				12	1.98	375	0.780	1.16	4.83%
NG2	1ST				1			4				12	1.98	425	0.894	1.50	6.27%
NG3	1ST		8									12	1.98	600	0.560	1.33	5.54%
NG4	1ST											12	1.98				

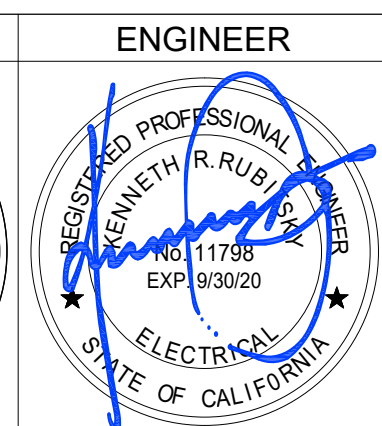
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	<input type="radio"/> BIDDING	
	<input type="radio"/> CONSTRUCTION	

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

## DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION

## FIRE ALARM CALCULATIONS

Project Number  
19003

Drawing Number

Ch

## FA5.2



FIRE SPRINKLER MATERIAL SCHEDULE

SPEC SECTION	DESCRIPTION	MODEL NO.	CSFM LISTING	MFR.
210500	BURIED PIPE			
	IN-BUILDING RISER	SERIES IBR	N/A	AMES
2.3	ABOVE GROUND PIPING			
	PIPE			
	2-1/2"-6" SCHED. 10	N/A	N/A	ALLIED
	1" - 2" SCHED. 40	N/A	N/A	ALLIED
	FITTINGS			
	CAST IRON THREADED	N/A	N/A	ANVIL
	GROOVED	VGS	N/A	VIKING
2.4	PIPE HANGERS AND SUPPORTS			
	----	----	----	AFCON
2.6	GLOBE OR ANGLE VALVES			
	GLOBE VALVE	125SUL	N/A	UNITED BRASS
	ANGLE VALVE	125SUL	N/A	UNITED BRASS
2.8	BUTTERFLY VALVE			
	GROOVED BUTTERFLY VALVES WITH SUPERVISORY TAMPER SWITCH CHECK VALVES	G300	7770-1440/0101	KENNEDY
2.9	4" GROOVED CHECK VALVE	M-2	N/A	VIKING
211300				
1.5	STRUCTURAL DESIGN AND SEISMIC REQUIREMENTS			
	----	----	----	----
2.2				
	SPRINKLERS			
	MICROFAST OR SSU	VK300	N/A	VIKING
	MICROFAST OR SSP	VK302	N/A	VIKING
2.3	PIPING SPECIALTIES			
	10" ELECTRIC BELL FLOWSWITCH	PBA-AC	7315-0328-.0119	POTTER
	CONTROL VALVE SUPERVISORY SWITCH		7770-0328:0010	POTTER
	SPECIALTY VALVES			

Water Flow Test Summary Sheet

Date: 2/15/2019  
Location: 1504 Fallbrook Street  
Hydrant # C16-10

		Correction Factors				
Hydrant #	Outlet Size (in)	Pressure (psi)	Discharge (gpm)	C1	C2	Pressure (psi)
1	4.5	19	1,948	0.90	0.83	Static 55
2	2.5		0	0.90	1.00	Residual 51
3	2.5		0	0.90	1.00	Pitot 19
Total Discharge During Test (gpm)			Available Flow at 20 psi (gpm)			
1,948			6,705			

Thank You,

DANIEL ANDERSON  
Secretary



2040 Lake Washington Blvd.  
West Sacramento, CA 95691  
Telephone: (916) 617-4721  
Fax: (916) 371-5017  
daniel.a@cityofwestsacramento.org

FIRE PROTECTION NOTES

- ALL WORKS AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE INSPECTION AUTHORITY. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT.  
A. CALIFORNIA FIRE CODE, 2016  
B. NFPA-13, 2016  
C. NFPA-24, 2016  
D. WEST SACRAMENTO FIRE DEPARTMENT  
E. CALIFORNIA BUILDING CODE - 2016  
F. CALIFORNIA MECHANICAL CODE - 2016  
G. CALIFORNIA PLUMBING CODE - 2016  
H. CALIFORNIA ELECTRICAL CODE - 2016  
I. STATE OF CALIFORNIA ENERGY CONSERVATION REGULATIONS, TITLE 24 - 2016  
J. NATIONAL FIRE PROTECTION ASSOCIATION  
K. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
- SEISMIC RESTRAINT: ALL HUNG PIPING SHALL CONFORM TO THE FOLLOWING CONDITIONS AND, THEREFORE, SEISMIC RESTRAINTS MAY BE OMITTED ACCORDING TO NFPA 13, 2016 ED. SECTION 9.3.5.5.10:  
A. ALL OTHER PIPING 2 - 1/2" AND LARGER MUST BE SUSPENDED BY INDIVIDUAL HANGERS 6" OR LESS IN LENGTH FROM THE TOP OF PIPE TO THE POINT OF THE ATTACHMENT TO STRUCTURE.  
B. NO TRAPEZE ASSEMBLIES SHALL BE USED TO SUPPORT PIPES OR DUCTS.  
C. WHERE LATERAL RESTRAINTS ARE OMITTED, PIPING SHALL BE INSTALLED SUCH THAT LATERAL MOTION OF THE PIPING WILL NOT CAUSE DAMAGING IMPACT WITH OTHER SYSTEMS OR STRUCTURAL MEMBERS, OR LOSS OF VERTICAL SUPPORT. IF AT THE CONTRACTOR'S OPTION, PIPING IS NOT INSTALLED IN CONFORMANCE WITH THESE CONDITIONS, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (1/4"=1'-0" SCALE) OF SEISMIC BRACING SYSTEM IN ACCORDANCE WITH "MASON INDUSTRIES" SEISMIC RESTRAINTS GUIDELINES FOR SUSPENDING PIPING DUCTWORK (OR APPROVED EQUAL) TO THE ARCHITECT FOR APPROVAL.
- THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS PRIOR TO BIDDING.
- ANY DAMAGE TO NEW BUILDING ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS THAT OCCURS DURING THE WORK SHALL BE RESTORED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IF LANDSCAPED AREAS INCLUDING NATURAL SPACES MUST BE USED FOR BUILDING ACCESS, THE LANDSCAPING SHALL BE RETURNED TO ITS ORIGINAL CONDITION. THE CONTRACTOR SHALL INCLUDE COSTS IN THE BID FOR THIS WORK IF THIS APPROACH IS USED. THE OWNER WILL NOT PAY ANY ADDITIONAL COSTS TO COVER DAMAGE TO THE BUILDING SYSTEMS, LANDSCAPING OR DRIVE AREAS.
- COORDINATE THE FOLLOWING WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND ELEMENTS AS INSTALLED INCLUDING EXISTING BUILDING SYSTEMS:  
A. EXACT LOCATION OF ALL EQUIPMENT.  
B. ALL PENETRATIONS THRU ROOF, WALLS AND FLOORS.  
C. EXACT SIZE AND ROUTING OF PIPING.
- DRAWINGS INDICATE DIAGRAMMATICALLY THE ARRANGEMENT OF PRINCIPAL APPARATUS, PIPING, AND OTHER MATERIAL FOLLOWING DRAWING AS CLOSELY AS POSSIBLE, IN ORDER TO ACHIEVE A NEAT ARRANGEMENT OF PIPING AND EQUIPMENT WHILE STILL OVERCOMING OBSTRUCTIONS.
- INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATION, INCLUDING WATER SUPPLY INFORMATION, HAVE BEEN APPROVED BY LP CONSULTING ENGINEERS. AT VARIOUS STAGES AND UPON COMPLETION, THE SYSTEM MUST BE TESTED IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION (AHJ).
- ALL EXISTING FIRE PROTECTION SYSTEMS SHALL REMAIN IN OPERATION DURING ALL PHASES OF CONSTRUCTION. NO SYSTEMS ARE TO BE SHUTDOWN WITHOUT AUTHORIZATION FROM THE OWNER AND LOCAL FIRE DISTRICT.

FIRE SPRINKLER LEGEND

	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN
	HYDRAULIC CALCULATION REFERENCE NODE
	EARTHQUAKE BRACE
	FOUR WAY BRACE
	FIRE SPRINKLER RISER
	GROOVED COUPLING
	BRANCH LINE HANGER DESIGNATION
	MAIN HANGER DESIGNATION
	HANGER WITH SURGE RESTRAINT PER 1/FP5.0 DESIGNATION
	CHANGE IN ELEVATION
	CAP
	PLUG
	VALVE
	MECHANICAL TEE
	END OF LINE RESTRAINT
	(E) FIRE SPRINKLER LINE
	(N) FIRE SPRINKLER LINE
	FIRE SPRINKLER PENDENT HEAD
	FIRE SPRINKLER UPRIGHT HEAD
	FIRE SPRINKLER SIDEWALL
	BASE OF RISER
	TOR
	TOP OF RISER

- THE LOCATION OF THE FIRE SPRINKLER HEADS SHALL BE COORDINATED WITH THE NEW CEILING LAYOUTS AND ALL OTHER TRADES FOR COMPLETE FIRE PROTECTION COVERAGE OF ALL AREAS. PROVIDE DETAILED PLANS FOR APPROVAL PRIOR TO INSTALLATION.
- HEADS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING PANELS. COORDINATE LAYOUT WITH CEILING OR SOFFIT LIGHT FIXTURES, AND HVAC DIFFUSERS, RETURNS, ETC. PROVIDE PENDENT AND/OR UPRIGHT TYPE SPRINKLER HEAD WHERE REQUIRED.
- WORKSMANSHIP:  
ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO THE BEST TRADE PRACTICE BY THOSE SKILLED IN THE PARTICULAR TRADE. PIPES, EQUIPMENT, ETC., TO BE INSTALLED LEVEL, SQUARE OR CENTERED, ETC., TO GIVE A NEAT AND PLEASING APPEARANCE. ALL EQUIPMENT IS TO BE INSTALLED STRICTLY PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL WORK WITH OTHER TRADES.
- THE ANNUAL SPACE BETWEEN PIPE SLEEVES AND THE PIPE THROUGH ALL RATED WALLS AND FLOORS SHALL BE FIRESTOPPED. FIRESTOPPING ALL PIPE PENETRATIONS SHALL COMPLY WITH UL REQUIREMENTS. MANUFACTURER PREAPPROVED UL PENETRATION FOR PROSET, OR APPROVED EQUAL. SUBMIT SHOP DRAWINGS.
- BY OTHERS:  
A. ELECTRICAL CONTRACTOR: ALL POWER AND ALARM WIRING, CONDUITS, DISCONNECTS, AND FINAL CONNECTIONS. NO FIELD SUPPLIED ELECTRICAL DEVICE SHALL BE MOUNTED ON PIPING AND NO RIGID ELECTRICAL CONNECTIONS SHALL BE MADE  
B. GENERAL CONTRACTOR: CUTTING, FRAMING, PATCHING, FURRING, AND PAINTING.
- ELECTRICAL VOLTAGE:  
AIR CONDITIONING CONTRACTOR SHALL CONFIRM ALL SYSTEM VOLTAGES BEFORE BIDDING AND ORDERING EQUIPMENT
- WARRANTY:  
ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL FIRE PROTECTION, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT.
- IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED. WHETHER SPECIFICALLY SHOWN OR MENTIONED, THE ENGINEER WILL GIVE ANY INTERPRETATIONS NECESSARY FOR THE CONTRACTOR TO PROPERLY ESTIMATE THE JOB.
- FIRE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR FABRICATION AND INSTALLATION DRAWINGS. AUTOCAD DRAWINGS WILL NOT BE PROVIDED.

GENERAL NOTES

- THE SYSTEM DESIGN AND INSTALLATION SHALL COMPLY WITH NFPA 13, 2016 EDITION AND DSA REQUIREMENTS.
- EXISTING SYSTEM DESIGN IS FOR: LIGHT HAZARD
- ALL THREADED PIPE 2" AND SMALLER SHALL BE SCHEDULE 40, BLACK TEEL ANSI/ASTM A135.
- CITY WATER SUPPLY INFORMATION:  
STATIC: 55 PSI    RESIDUAL: 51 PSI FLOW: 1948 GPM
- ALL GROOVED AND WELDED PIPE 2 1/2" - 6" SHALL BE SCHEDULE 10, BLACK STEEL ANSI/ASTM A795.
- THREADED FITTINGS SHALL BE CLASS 125 THREADED CAST IRON ANSI B16.4.
- ALL THREADED PIPE AND FITTINGS SHALL HAVE THREADS CUT TO ANSI/ASME STANDARD B1.20.1.
- ALL PIPE WELDING SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS AWS D10.9 (STANDARD FOR BUILDING SERVICE PIPING), LEVEL AR-3
- ALL PIPE SHALL BE EARTHQUAKE BRACED AS OUTLINED IN NFPA 13, 2016 EDITION, SECTION 9.3.
- ALL HANGER COMPONENTS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13, 2016 EDITION, SECTION 9.1 AND 9.2.
- ELECTRICAL WIRING AND ANY PAINTING OF THE PIPE THAT MAY BE REQUIRED SHALL BE BY OTHERS.
- ALL NEW PIPING IS TO BE HYDROSTATICALLY TESTED TO CODE FOR A PERIOD NOT LESS THAN TWO HOURS.
- FLOW AND TAMPER SWITCHES ARE TO BE CONNECTED TO FIRE ALARM PANEL.
- ALL ELECTRICAL WIRING TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
- FIRE SPRINKLER SUPPLY AND STUB OUT SHALL BE INSTALLED AND TESTED PER NFPA 24.
- MAIN FIRE PANEL, VALVE MONITORING, WATER FLOW ALARM AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.
- 2X4 REGULAR TILE, PENDENT SPRINKLERS ARE TO BE CENTERED IN 2'X2' SPACE. (TYPICAL)

FIRE SPRINKLER SHEET INDEX

SHEET NUMBER	SHEET NAME
FP0.1	FIRE SPRINKLER LEGENDS, NOTES & SCHEDULES
FP1.0	FIRE SPRINKLER SITE PLAN
FP2.0	FIRE SPRINKLER SECTIONS
FP3.1	FIRE SPRINKLER SECTIONS
FP3.2	FIRE SPRINKLER SECTIONS
FP3.3	FIRE SPRINKLER SEISMIC CALCULATIONS
FP3.4	FIRE SPRINKLER SEISMIC CALCULATIONS
FP3.0	FIRE SPRINKLER DETAILS
FP3.1	FIRE SPRINKLER DETAILS
FP3.2.1	FIRE SPRINKLER BUILDING F REFLECTED CEILING PLAN
FP3.4.1	FIRE SPRINKLER BUILDING F PIPING PLAN
FP3.2.1	FIRE SPRINKLER BUILDING G REFLECTED CEILING PLAN
FP3.4.1	FIRE SPRINKLER BUILDING G PIPING PLAN
FP3.2.1	FIRE SPRINKLER BUILDING H REFLECTED CEILING PLAN
FP3.4.1	FIRE SPRINKLER BUILDING H PIPING PLAN

SCOPE OF WORK

PROJECT DESCRIPTION: NEW FIRE SPRINKLER SYSTEM TO ACCOMMODATE NEW BUILDING CONSTRUCTION

OWNER: WASHINGTON UNIFIED SCHOOL DISTRICT

CODE ANALYSIS:

TOTAL BUILDING AREA: 26500 SF ±

BUILDING HEIGHT: 20 FT

CONSTRUCTION TYPE: I-A

OCCUPANCY TYPE: MIXED, NON SEPARATED (A-2, E)

VICINITY MAP



OVERHEAD FIRE SPRINKLER SYSTEM NOTES

- NFPA 13 (2016) SEC. 10.10.2.1 UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTIONS IS MADE TO THE OVERHEAD FIRE SPRINKLER PIPING SYSTEM. (WITNESSED BY THE INSPECTOR OF RECORD)
- NFPA 13 (2016) SEC. 9.3.4.2 CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS, FLOORS, PLATFORMS AND FOUNDATIONS INCLUDING DRAINS SUCH THAT THE DIAMETER OF THE HOLES IS 2 INCHES LARGER THAN THE PIPE FOR PIPE 4 INCH NOMINAL AND LARGER.
- NFPA 13 (2016) SEC. 25.2.1 ALL INTERIOR PIPING AND APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. (WITNESSED BY IOR)
- NFPA 13 (2016) SEC. 6.2.9.5 VERIFY THAT THE SPARE SPRINKLER HEAD CABINET INCLUDES WRENCH, AND NO FEWER THAN A TOTAL OF 6 SPARE SPRINKLER HEADS MATCHING THE TYPES AND TEMPERATURE RATINGS IN EACH PROTECTED BUILDING FOR SYSTEMS WITH LESS THAN 300 SPRINKLERS AND 12 SPARE SPRINKLERS FOR SYSTEMS WITH 300-1000 SPRINKLERS.
- NFPA 13 (2016) SEC. 9.3.6 PROVIDE RESTRAINT OF BRANCH LINES BY USING ONE OF THE FOLLOWING:  
A. A LISTED SWAY BRACE ASSEMBLY  
B. A WRAPAROUND U-HOOK SATISFYING THE REQUIREMENTS OF 9.3.5.5.11  
C. NO. 12, 440-LB WIRE INSTALLED AT LEAST 45 DEGREES FROM THE VERTICAL PLANE AND ANCHORED ON BOTH SIDES OF THE PIPE  
D. A HANGER NO LESS THAN 45 DEGREES FROM VERTICAL INSTALLED WITHIN 6 INCHES OF THE VERTICAL HANGER ARRANGED FOR RESTRAINT AGAINST UPWARD MOVEMENT, PROVIDED IT IS UTILIZED SUCH THAT L/R DOES NOT EXCEED 400, WHERE THE ROD SHALL EXTEND TO THE PIPE OR HAVE A SURGE CLIP INSTALLED.
- NFPA 72 (2016) SEC. 17.12.2 SPRINKLER FLOW SWITCHES SHALL BE TESTED BY IOR TO CONFIRM THAT WHEN THE INSPECTORS' TEST VALVE IS ACTIVATED AND ALARM WILL SOUND IN NO LESS THAN 20 SECONDS AND NOT MORE THAN 90 SECONDS.
- CBC (2016) SEC. 903.4.1 MAIN FIRE ALARM PANEL MONITORING AND WATER FLOW ALARM AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.
- NFPA 13 (2016) SEC. 6.8.2.1 THE ALARM APPARATUS FOR A WET PIPE SYSTEM SHALL CONSIST OF A LISTED ALARM CHECK VALVE OR OTHER LISTED WATER FLOW DETECTION ALARM DEVICE WITH THE NECESSARY ATTACHMENTS REQUIRED TO GIVE AN ALARM.
- NFPA 13 (2016) SEC. 25.5 HYDRAULIC CALCULATION DESIGN DATA PLACARD IS TO BE ATTACHED TO THE FIRE SPRINKLER SYSTEM RISER.
- NFPA 13 (2016) SEC. 25.1 THE FIRE SPRINKLER CONTRACTOR (C-16) SHALL COMPLETE AND SIGN THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE OVERHEAD FIRE SPRINKLER SYSTEM USING THE FORM IN FIGURE 25.1. THIS FORM SHALL BE GIVEN TO THE DSA PROJECT INSPECTOR WHO WILL TURN IT IN FOR DSA RECORDS.
- NFPA 13 (2016) SEC. 25.2.3.4 THE MAIN DRAIN VALVE SHALL BE OPENED AND REMAIN OPEN UNTIL THE SYSTEM PRESSURE STABILIZES. THE STATIC AND RESIDUAL PRESSURES SHALL BE RECORDED ON THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE. THE TEST IS TO BE WITNESSED BY THE INSPECTOR OF RECORD - IOR.
- NFPA 13 (2016) SEC. 9.2.3.7 SPRIGS 4 FT OR LONGER SHALL BE RESTRAINED AGAINST LATERAL MOVEMENT TO PREVENT DAMAGE TO PIPING.
- TITLE 19, ARTICLE 906(A) A LABEL OF THE SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR FIRE SPRINKLER SYSTEM WITH THE DATE OF SERVICE AND/OR DATE INSTALLATION WAS PERFORMED AND LICENSE NUMBER OF PERSON PERFORMING SERVICE WORK.
- GENERAL INFORMATION PLACARD SHALL BE ATTACHED TO EACH RISER PER NFPA 13 SEC. 25.6.
- THE TESTING AND MAINTENANCE OF THE SYSTEM CORROSION INHIBITOR IS TO BE BY THE OWNERS' SERVICE CONTRACTOR. WORK UNDER THIS CONTRACT IS NOT TO INCLUDE CORROSION INHIBITOR.

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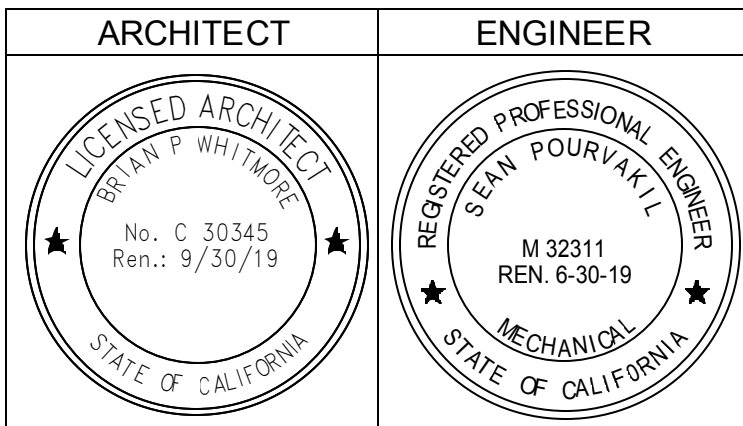
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MEP & FS / Sustainability / CxA

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NO	REMARKS	DATE

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<input type="radio"/> CONSTRUCTION	

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

FIRE SPRINKLER  
LEGENDS, NOTES &  
SCHEDULES

Date  
05/20/2019

Project Number  
19003

Scale  
1/8" = 1'-0"

Drawing Number

Drawn  
KT

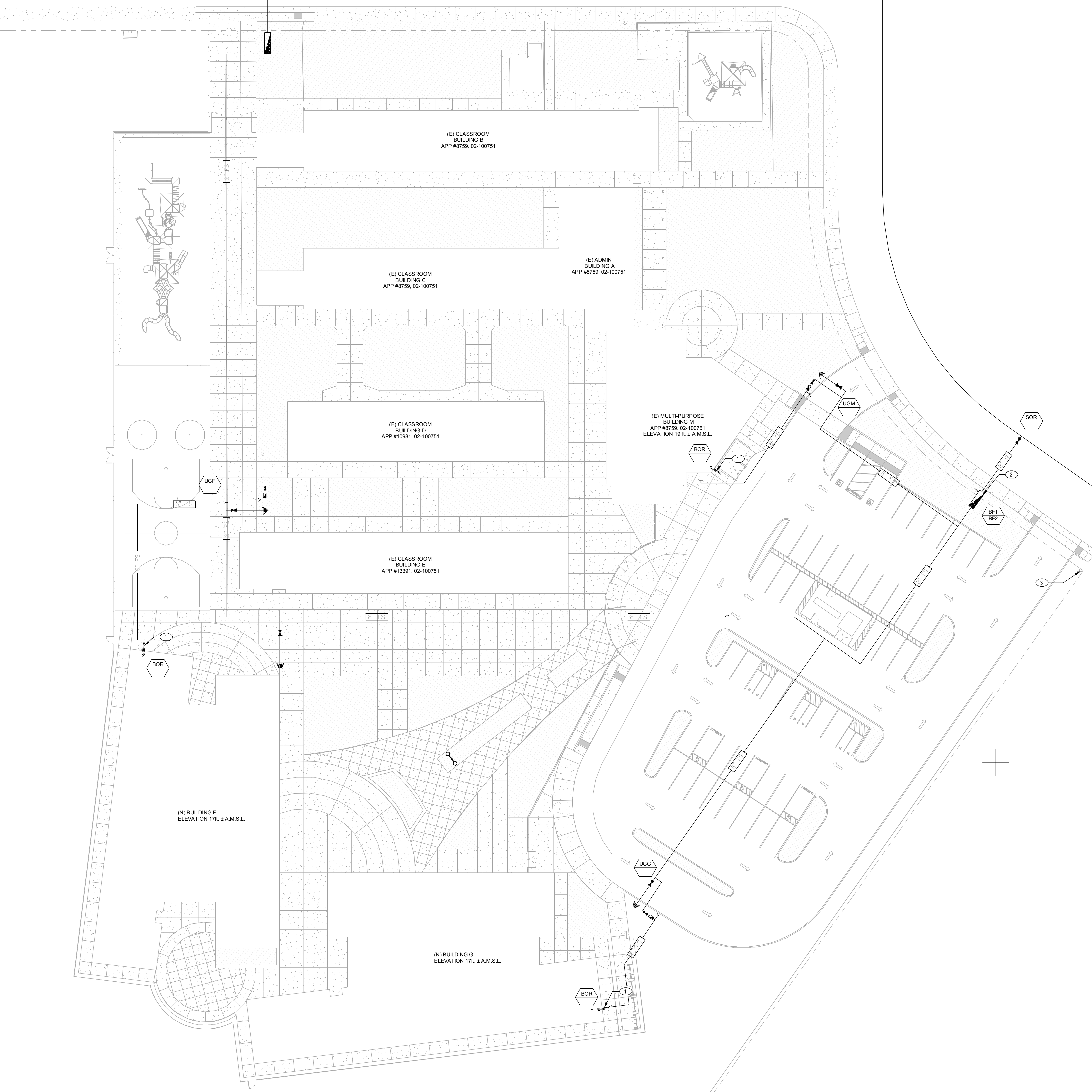
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FP0.1



1 Fire Sprinkler Site Plan

SCALE: 1" = 20'-0"



KEY NOTES

- 1 AMES IN-BUILDING RISER
- 2 AMES 4000SS BACKFLOW
- 3 FLOW TEST DATED 2-15-2019 LOOPED HYDRANT NUMBER C16-10 ELEVATION 18 FT. ± A.M.S.L.

REQUIRED BEARING AREA - TOTAL SQUARE FEET					
TYPE OF FITTING	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	
TYPICAL INSTALLATION					
SIZE OF PIPE	3"	2.6	1.4	0.7	0.4
	4"	3.8	2.1	1.0	0.5
	6"	7.9	4.3	2.	1.
	8"	13.6	7.4	3.8	1.9
	10"	20.5	11.1	5.7	2.8
	12"	29.0	15.7	8.0	4.0
	14"	39.0	21.1	10.8	5.4
	16"	50.4	27.3	13.9	7.0
	18"	63.3	34.2	17.5	8.8
	20"	77.7	42.0	21.4	10.8
	24"	110.9	60.0	30.6	15.4
	30"	170.6	92.3	47.1	23.7
	36"	244.4	132.2	67.5	34.0
	42"	329.9	178.5	91.1	45.9
	48"	430.0	232.6	118.7	59.8

THRUST BLOCK NOTES:

1. VALUES LISTED ARE BASED ON A 90 DEGREE HORIZONTAL BEND, AN INTERNAL PRESSURE OF 100 PSI, A SOIL HORIZONTAL BEARING STRENGTH OF 1000 LB/FT², A SAFETY FACTOR OF 1.5, AND DUCTILE-IRON PIPE OUTSIDE DIAMETERS. FOR OTHER HORIZONTAL BENDS, MULTIPLY BY THE FOLLOWING COEFFICIENTS: FOR 45 DEGREE: 0.541; FOR 22 DEGREE: 0.276; FOR 11 DEGREE: 0.139.
2. FOR OTHER INTERNAL PRESSURES, MULTIPLY BY THE RATIO 100 PSI/LB/FT².
3. FOR OTHER SOIL BEARING STRENGTHS, DIVIDE BY RATIO TO 1,000 LB/FT².
4. FOR EXAMPLE:

$$\text{AREA} = \frac{7.9\text{FT}^2 \cdot (0.541)}{\frac{3000}{1000}} = 2.1 \text{ FT}^2$$

HORIZONTAL BEARING STRENGTH

BEARING STRENGTH, S		
SOIL	LB/FT²	KN/M²
MUCK	0	0
SOFT CLAY	1000	47.9
SILT	1500	71.8
SANDY SILT	3000	143.6
SAND	4000	191.5
SANDY CLAY	6000	287.3
HARD CLAY	9000	430.9

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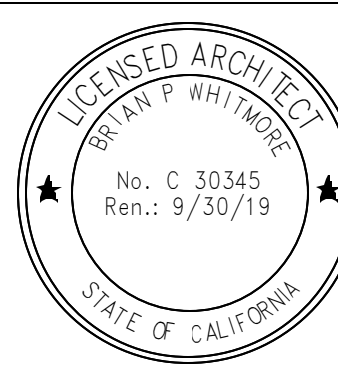
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REVISION HISTORY

NO.	REMARKS	DATE

DRAWING STATUS

☒ DSA PLAN CHECK  
☐ DSA BACK CHECK  
☐ BIDDING  
☐ CONSTRUCTION

DATE: 05/20/2019

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

FIRE SPRINKLER SITE  
PLAN

Date

05/20/2019

Scale

As indicated

Drawn

KT

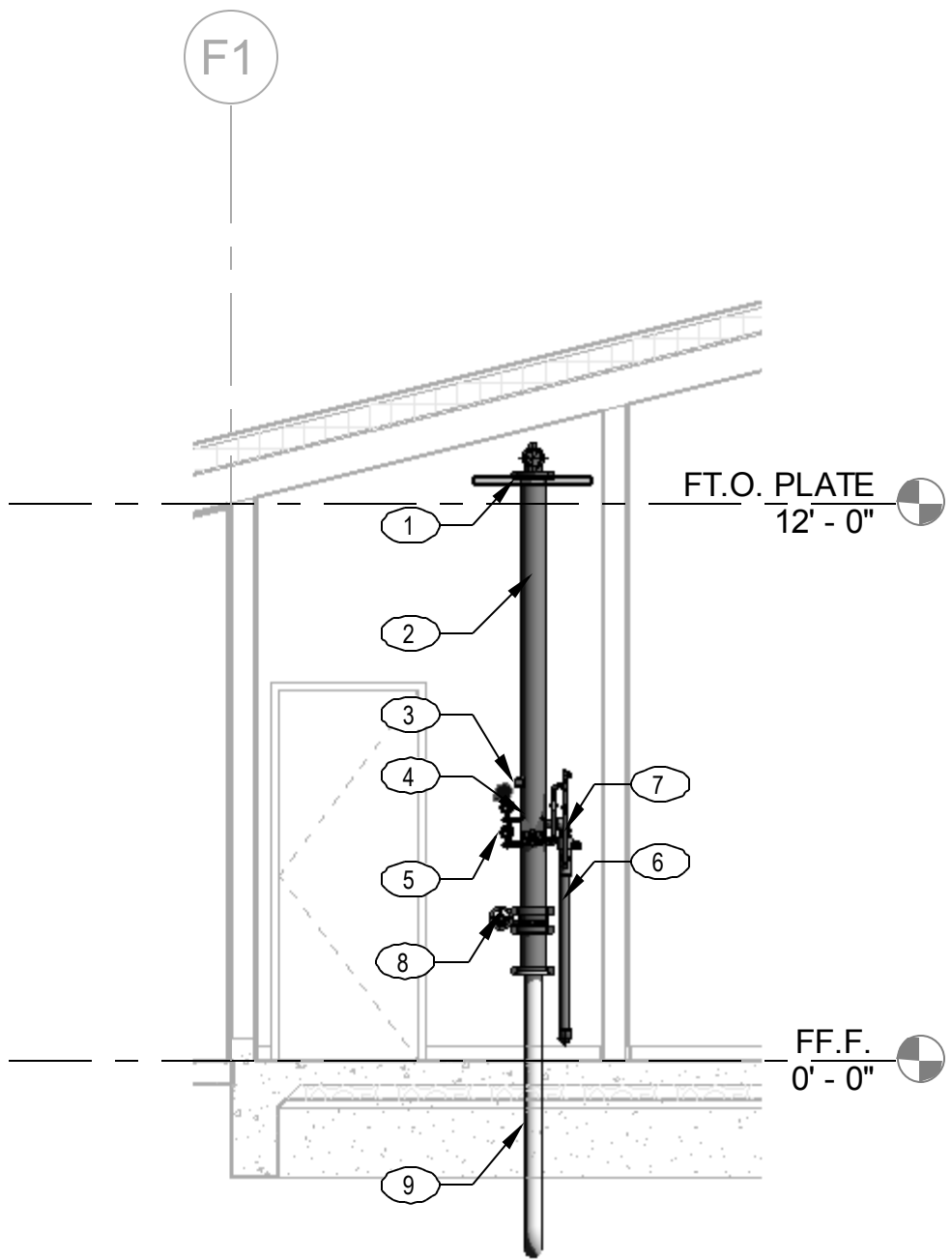
Project Number

19003

Drawing Number

FP1.0

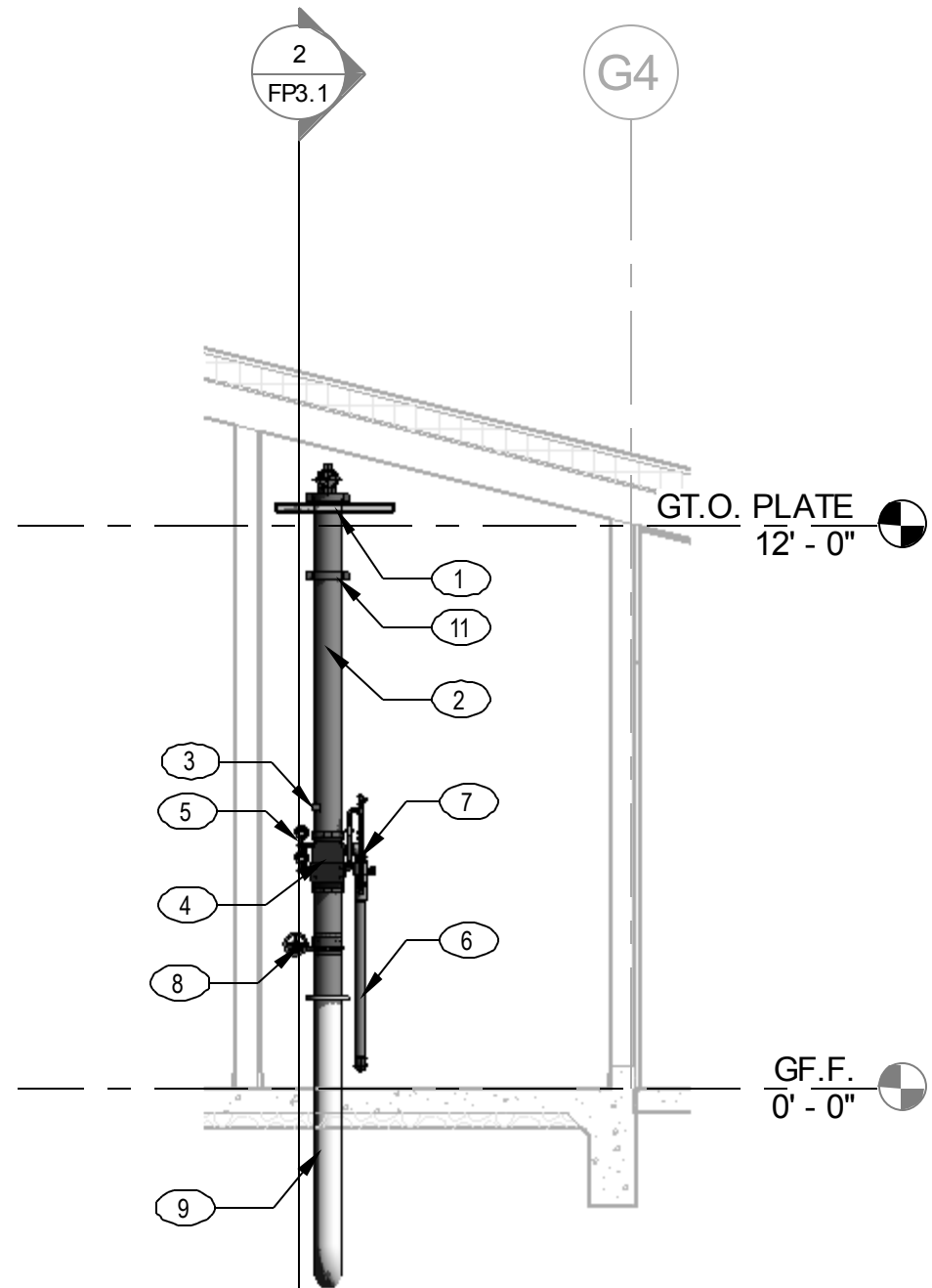




- KEY NOTES**
- 4-WAY BRACE
  - 6" FIRE SPRINKLER RISER
  - FLOW SWITCH
  - ALARM CHECK VALVE
  - RISER GAUGES
  - 2" DRAIN PIPE
  - 2" MAIN TEST & DRAIN
  - BUTTERFLY VALVE
  - AMES IN-BUILDING RISER
  - PROVIDE POWER CONNECTION FOR FIRE DOOR ELECTRICAL CONTRACTOR SHALL PROVIDE ALL INTERCONNECTIONS FIELD WIRING PER MANUFACTURER REQUIREMENTS.
  - FLEXIBLE COUPLING

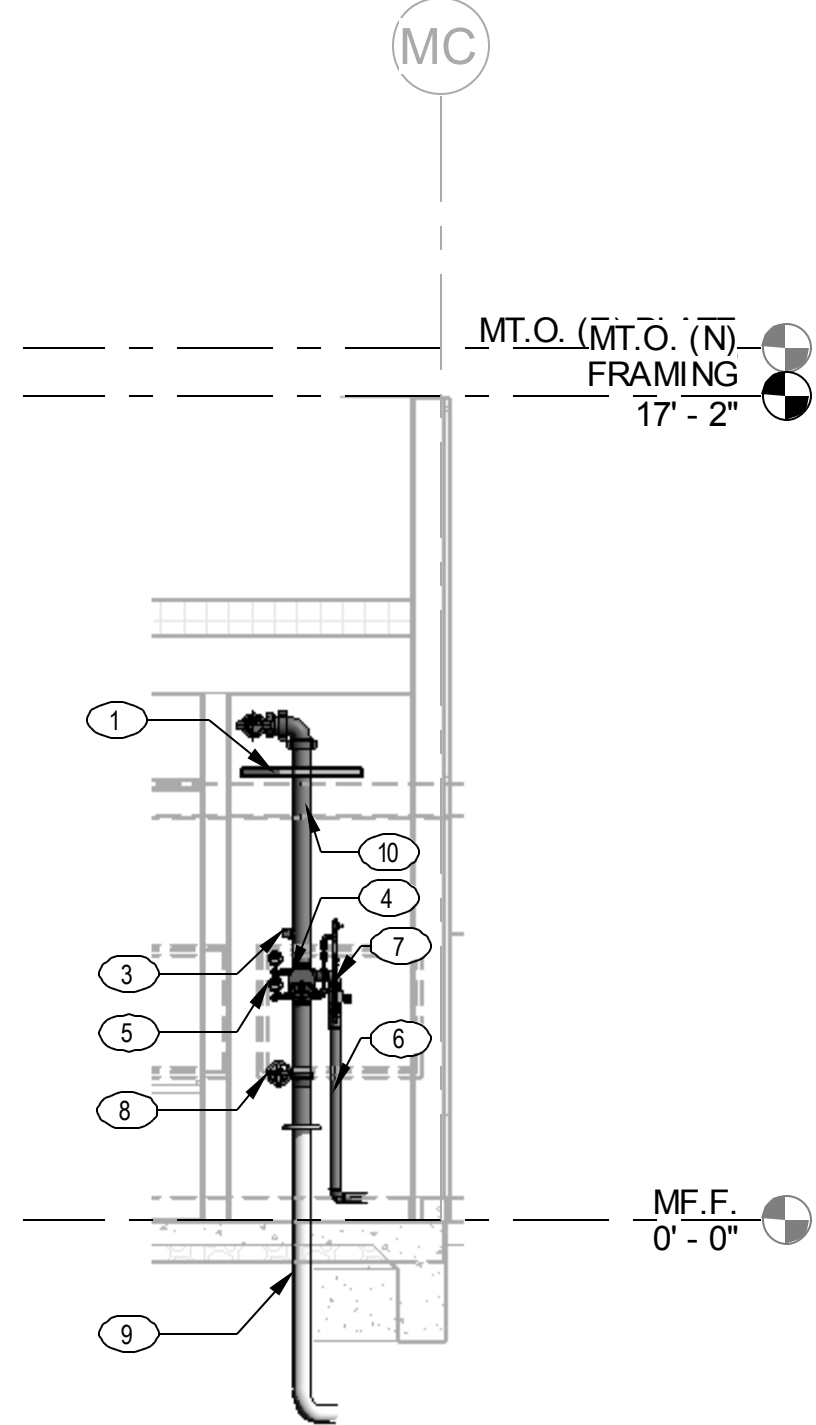
FIRE SPRINKLER BUILDING F RISER

NTS 2



FIRE SPRINKLER BUILDING G RISER

NTS 1



FIRE SPRINKLER BUILDING M RISER

NTS 3

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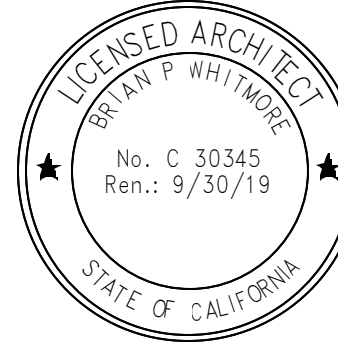
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ARCHITECT

ENGINEER



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	<input type="radio"/> CONSTRUCTION	

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

FIRE SPRINKLER  
SECTIONS

Date

05/20/2019

Project Number

19003

Scale

1/4" = 1'-0"

Drawing Number

FP3.0

Drawn

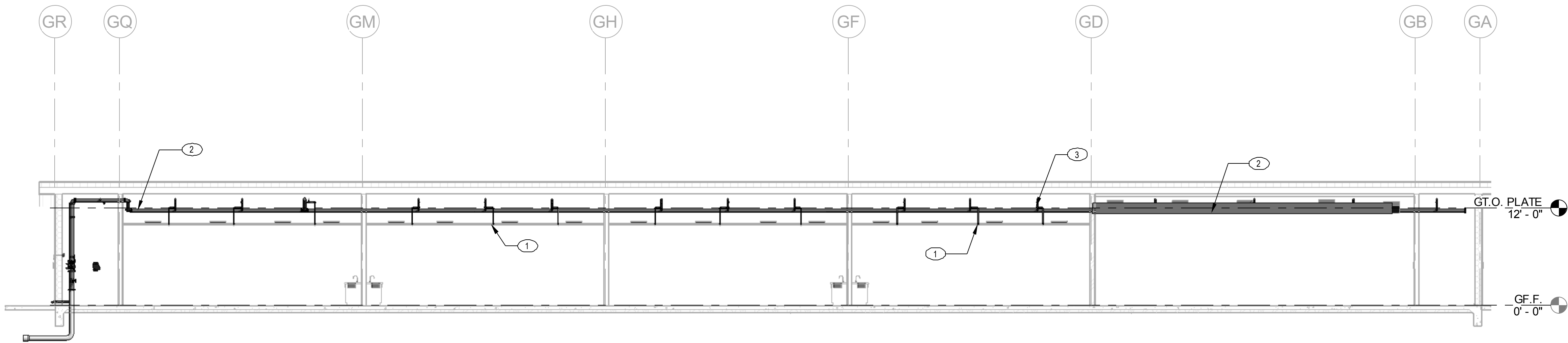
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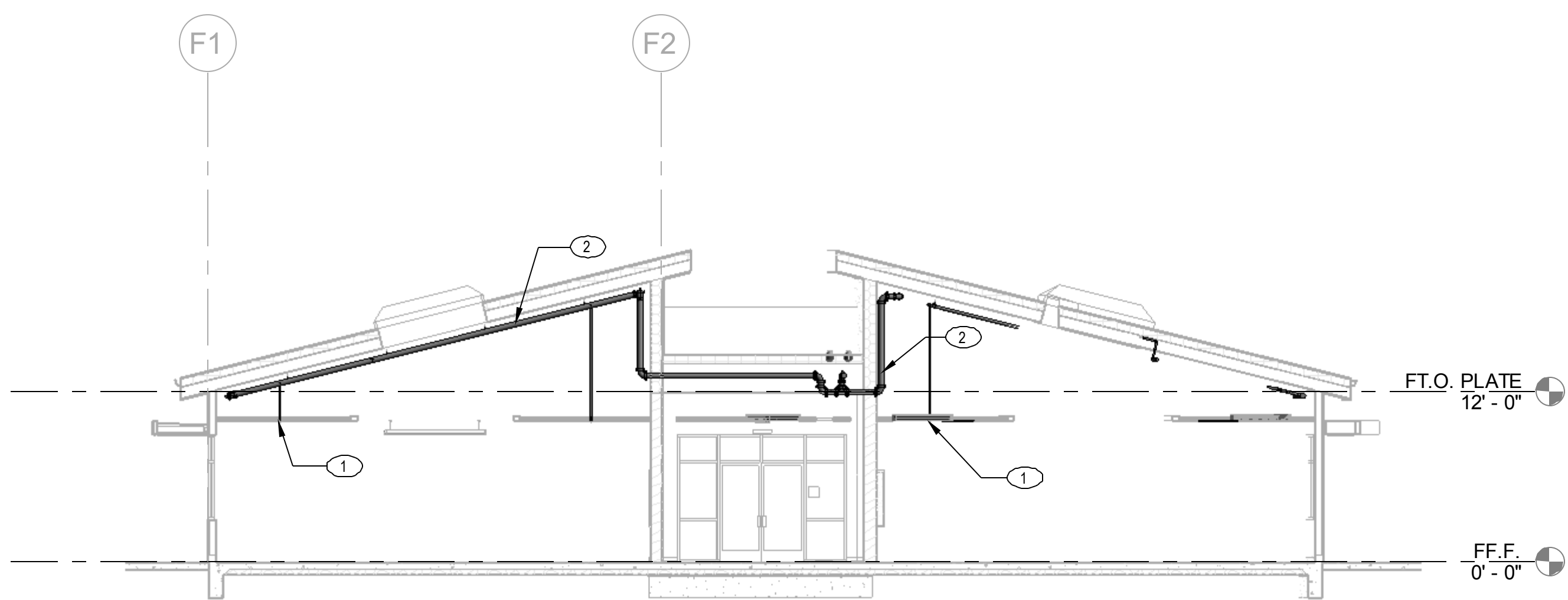
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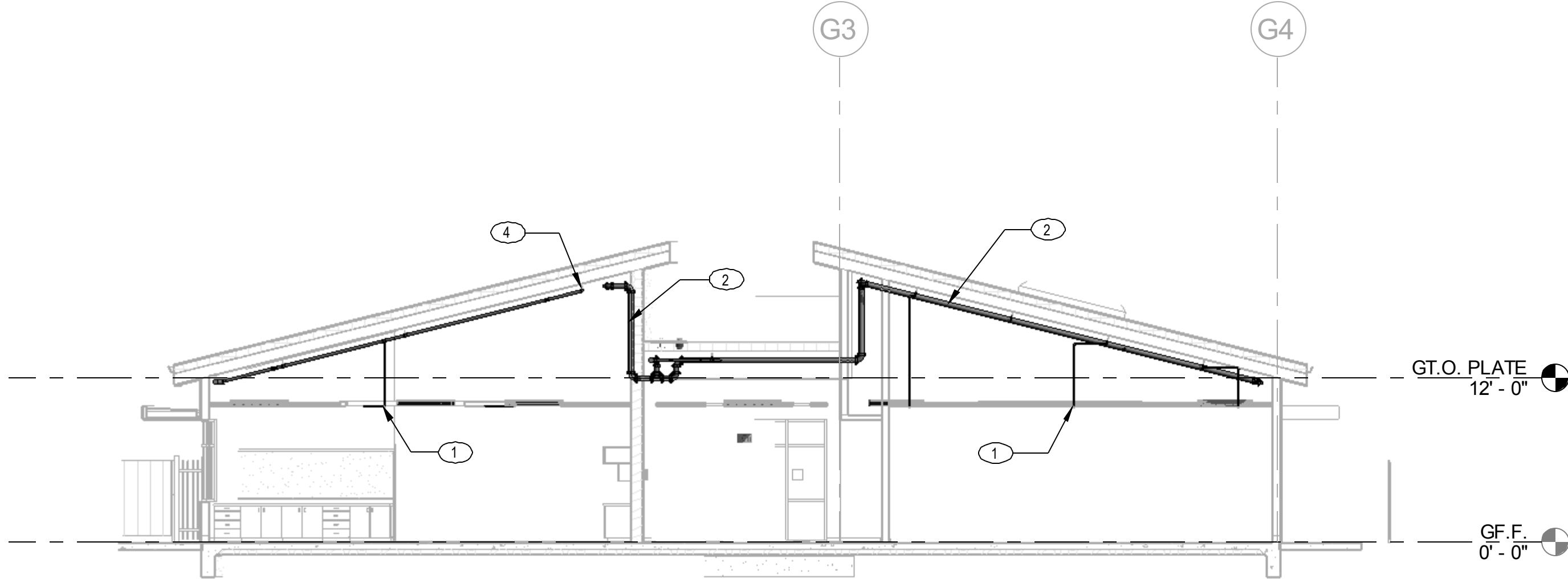
- KEY NOTES**
- 1 STANDARD SPRAY QUICK-RESPONSE SEMI-RECESSED PENDENT FIRE SPRINKLER
  - 2 4" SCH 10 BLK STEEL BULK PIPE
  - 3 2" SCH 40 BRANCH LINE PIPE
  - 4 STANDARD SPRAY QUICK-RESPONSE UPRIGHT FIRE SPRINKLER



**2 FIRE SPRINKLER BUILDING G SECTION 1**  
SCALE: 1/8" = 1'-0"



**3 FIRE SPRINKLER BUILDING F SECTION 2**  
SCALE: 1/8" = 1'-0"



**4 FIRE SPRINKLER BUILDING G SECTION 2**  
SCALE: 1/8" = 1'-0"

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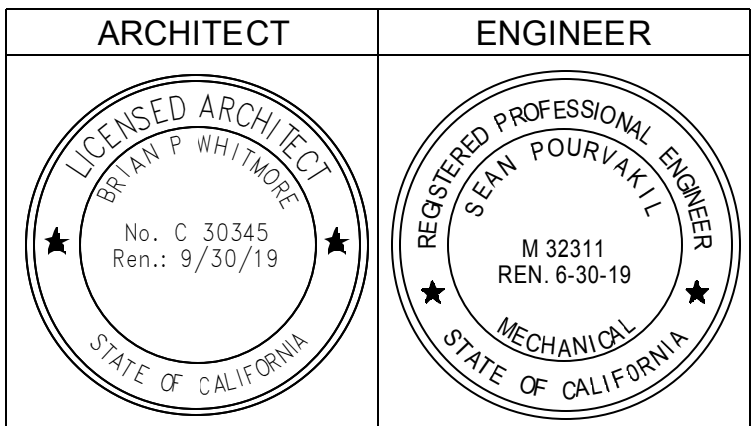
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KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
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WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

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SCHOOL  
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ADDITION  
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WEST SACRAMENTO, CA 95691

FIRE SPRINKLER  
SECTIONS

Date  
05/20/2019

Project Number  
19003

Scale  
1/8" = 1'-0"

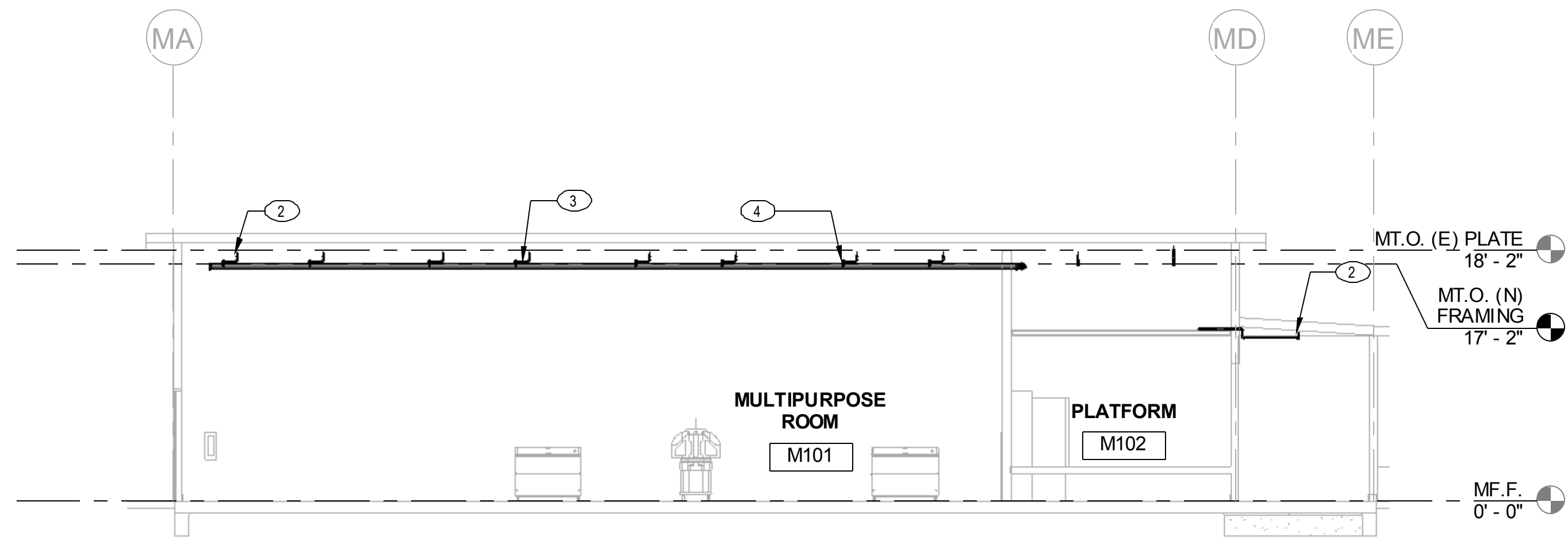
Drawing Number

Drawn  
KT

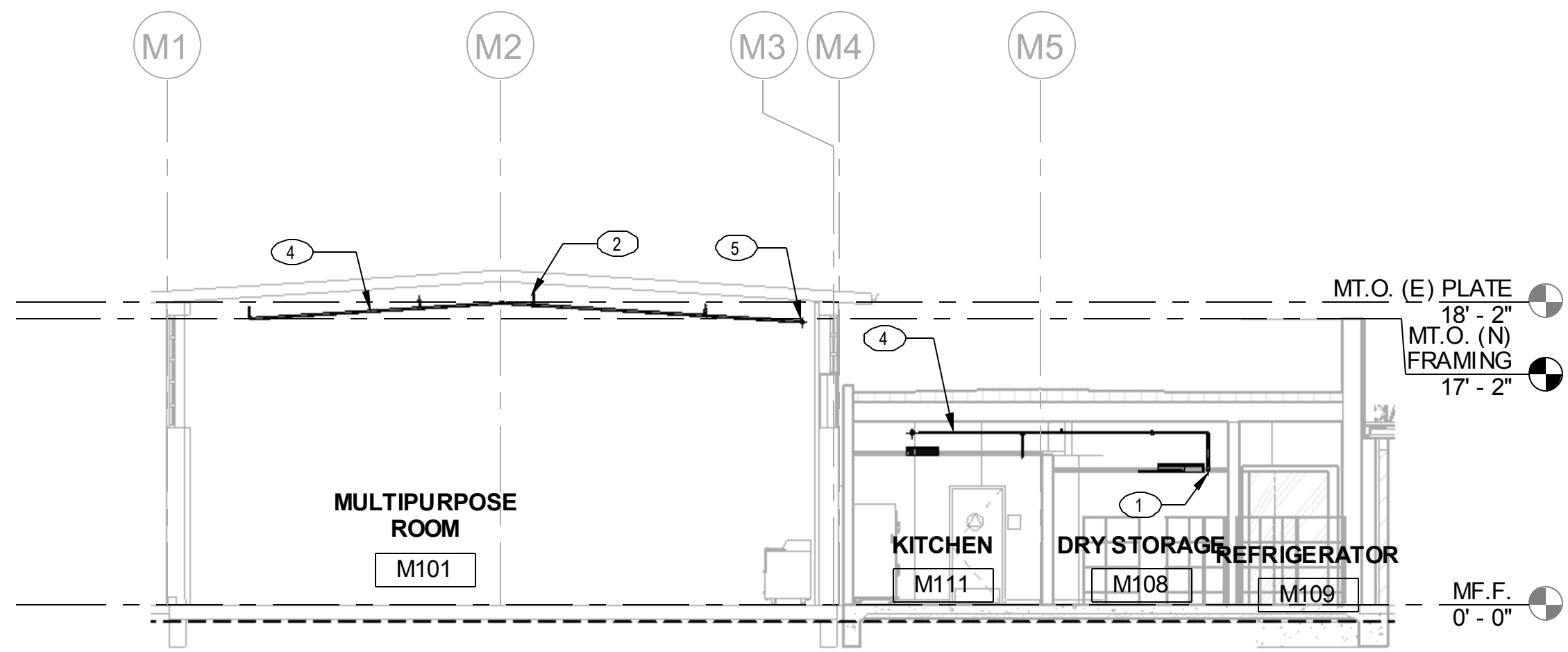
Checked  
DS

FP3.1





1 FIRE SPRINKLER BUILDING M SECTION 1  
SCALE: 1/8" = 1'-0"



2 FIRE SPRINKLER BUILDING M SECTION 2  
SCALE: 1/8" = 1'-0"

- KEY NOTES**
- 1 STANDARD SPRAY QUICK-RESPONSE SEMI-RECESSED PENDENT FIRE SPRINKLER
  - 2 STANDARD SPRAY QUICK-RESPONSE UPRIGHT FIRE SPRINKLER
  - 3 1" SCH.40 ARM/OVER PIPE
  - 4 1 1/4" SCH.40 BRANCH LINE PIPE
  - 5 4" SCH.10 BLK STEEL BULK PIPE

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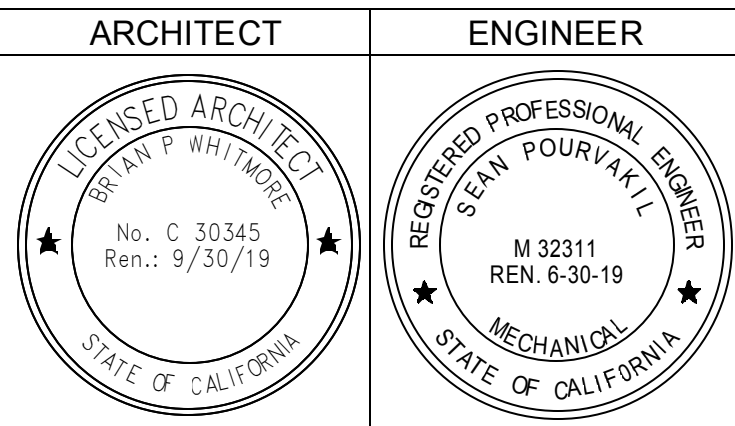


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KEY PLAN

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DESIGN DEVELOPMENT

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ADDITION  
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FIRE SPRINKLER  
SECTIONS

Date  
05/20/2019

Scale  
1/8" = 1'-0"

Drawn  
KT

Project Number  
19003

Drawing Number

Checked  
DS

FP3.2




**Westmore Oaks ES**  
**1504 Fallbrook Street**

Brace Identification  
 Brace Type (Per NFPA#13)  
 Braced Pipe (ft)  
 Spacing of Brace  
 Orientation of Brace  
 Bracing Material  
 Maximum Brace Length  
 Slenderness Ratio used for Load Calculation  
 True Angle of Brace for Calculation  
 Type of Fastener  
 Length of Fastener

**TOLBrace™ Seismic Calculations**

Job # 19-2007

SBI  
 NFPA Type I  
 4" Sch.10 Steel Pipe  
 80' 0" (24.38 m)  
 Longitudinal  
 1" Sch.40  
 7' 0" (2.13 m)  
 200  
 60°  
 5/8 x 5-1/2 (16 x 140 mm) Through-Bolt  
 5-1/2in. (140 mm)



**FATON**  
 Powering Business Worldwide

**Summary of Pipe within Zone of Influence**

4" Sch. 10 Steel Pipe (101.6 mm)	80' 0" (24.4 m)

G-Factor Used 0.423

Allowance for Heads and Fittings      15%

Conclusions

Total Adjusted Load of Pipe in Zone of Influence      458 lbs (208 kg)

Material Capacity      1604 lbs (728 kg)

Fastener Capacity      1180 lbs (535 kg)


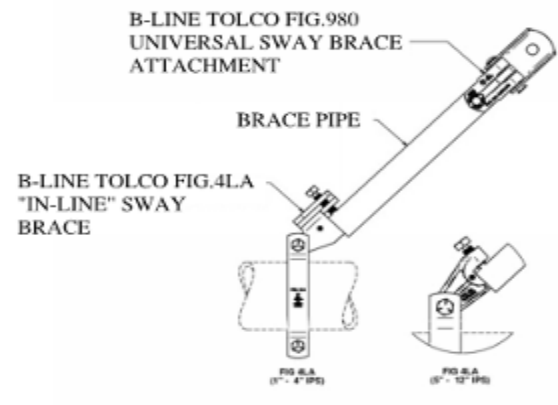
Fig. 4LA Clamp      1190 lbs (540 kg)

Fig.980 Universal Swivel      2310 lbs (1048 kg)


Structural Member      Wood framing

Calculations prepared by      David Soto


\* The description of the Structural Member is for informational purposes only.  
 TOLBrace™ software calculates the brace assembly only, not the structure it is attached to.  
 Calculated with TOLBrace™ 8  
 Visit us at www.faton.com

<b>TOLBrace™ Seismic Bracing Calculations</b>					
<b>Project Address:</b> Westmore Oaks ES 1504 Fallbrook Street West Sacramento, CA Job # 19-2007		<b>Contractor:</b> LP Consulting Engineers <b>Address:</b> 1209 Pleasant Grove Roseville, CA, 95678 <b>Phone:</b> <b>License:</b>			
					
Calculations based on 2016 NFPA Pamphlet #13					
<b>Brace Information</b>		<b>TOLCO™ Brace Components</b>			
<b>Maximum Brace Length</b>	7' 0" (2.134 m)	<b>TOLCO™ Component</b>	<b>Listed Load</b> <b>Adjusted Load</b>		
<b>Diameter of Brace</b>	1" Sch.40	Fig. 4LA Clamp	1190 lbs (540 kg)      1190 lbs (540 kg)		
<b>Type of Brace</b>	Sch. 10	Fig. 980 Universal Swivel	2310 lbs (1048 kg)      2310 lbs (1048 kg)		
<b>Angle of Brace</b>	60° Min.	*Calculation Based on CONCENTRIC Loading *Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.			
<b>Least Rad. of Gyration</b>	0.42" (11 mm)	<b>Seismic Brace Assembly Detail</b>			
<b>L/R Value</b>	200				
<b>Max Horizontal Load</b>	1604 lbs (728 kg)				
<b>Other Requirements - FM Approved Loads</b>					
<b>Fastener Information</b>					
<b>Orientation to Connecting Surface</b> N/FA Type I					
<b>Fastener</b>					
<b>Type</b>	Through-Bolt				
<b>Diameter</b>	5/8in. (16 mm)				
<b>Length</b>	5-1/2in. (140 mm)				
<b>Maximum Load</b>	1180 lbs (535 kg)				
<b>Prying Factor</b>	N/A				
		<b>Brace Identification on Plans</b> SB1			
		<b>Brace Type</b> Lateral [ ]    Longitudinal [X]    4-Way [ ]			
<b>Sprinkler System Load Calculation (Fpw = CpWp)</b>					
<b>Diameter</b>	<b>Type</b>	<b>Length</b>	<b>Total Length</b>	<b>Weight Per Unit Length</b>	<b>Total Weight</b>
4" (100 mm)	Sch. 10	80 ft (24.4 m)	80 ft (24.4 m)	11.78 lb/ft (17.53 kg/m)	942 lbs (427 kg)
Subtotal Weight					942 lbs (427 kg)
Wp (incl. 15%)					1083 lbs (491 kg)
<b>Main Size</b>	<b>Type/Sch.</b>	<b>Spacing (ft)</b>			
4"	Sch. 10	30			
Maximum Fpw per 9.5.5.2 (if applicable) N/A					458 lbs (208 kg)
(TOLBrace™ Version 01)      Use of TOLBrace™ is subject to terms and conditions per the end user license agreement					

3/14/2019

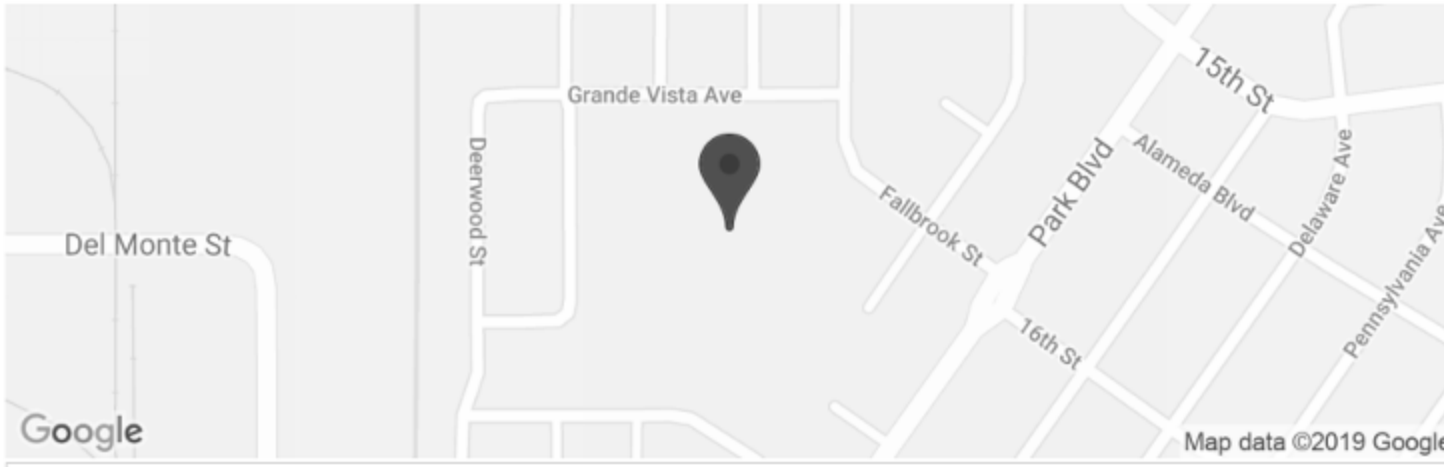


U.S. Seismic Design Maps



## 1504 Fallbrook St, West Sacramento, CA 95691, USA

Latitude, Longitude: 38.5699119, -121.5342648000002



Google

Map data ©2019 Google

**Date** 2/14/2019, 4:29:27 PM

**Design Code Reference Document** ASCE7-10

**Risk Category** II

**Site Class** D - Stiff Soil

Type	Value	Description
S <sub>S</sub>	0.715	MCE <sub>g</sub> ground motion, (for 0.2 second period)
S <sub>1</sub>	0.303	MCE <sub>g</sub> ground motion, (for 1/s <sub>g</sub> period)
S <sub>MS</sub>	0.878	Site-modified spectral acceleration value
S <sub>M1</sub>	0.544	Site-modified spectral acceleration value
S <sub>D5</sub>	0.585	Numeric seismic design value at 0.2 second SA
S <sub>D1</sub>	0.363	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	D	Seismic design category
F <sub>a</sub>	1.228	Site amplification factor at 0.2 second
F <sub>v</sub>	1.794	Site amplification factor at 1.0 second
PGA	0.245	MCE <sub>g</sub> peak ground acceleration
PGAf	1.309	Site amplification factor at PGA
PGAf <sub>0</sub>	0.321	Site modified peak ground acceleration
T <sub>g</sub>	12	Long-period transition period in seconds
S <sub>IRT</sub>	0.715	Probabilistic risk-targeted ground motion, (0.2 second)
SLuH	0.65	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SnD	1.5	Factored deterministic acceleration value, (0.2 second)
S <sub>1RT</sub>	0.303	Probabilistic risk-targeted ground motion, (1.0 second)
S <sub>1UH</sub>	0.271	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration,
S <sub>1D</sub>	0.6	Factored deterministic acceleration value, (1.0 second)
PGAd	0.5	Factored deterministic acceleration value, (Peak Ground Acceleration)
C <sub>RS</sub>	1.1	Mapped value of the risk coefficient at short periods
C <sub>R1</sub>	1.12	Mapped value of the risk coefficient at a period of 1 s

<https://seismicmaps.org/>

1/2

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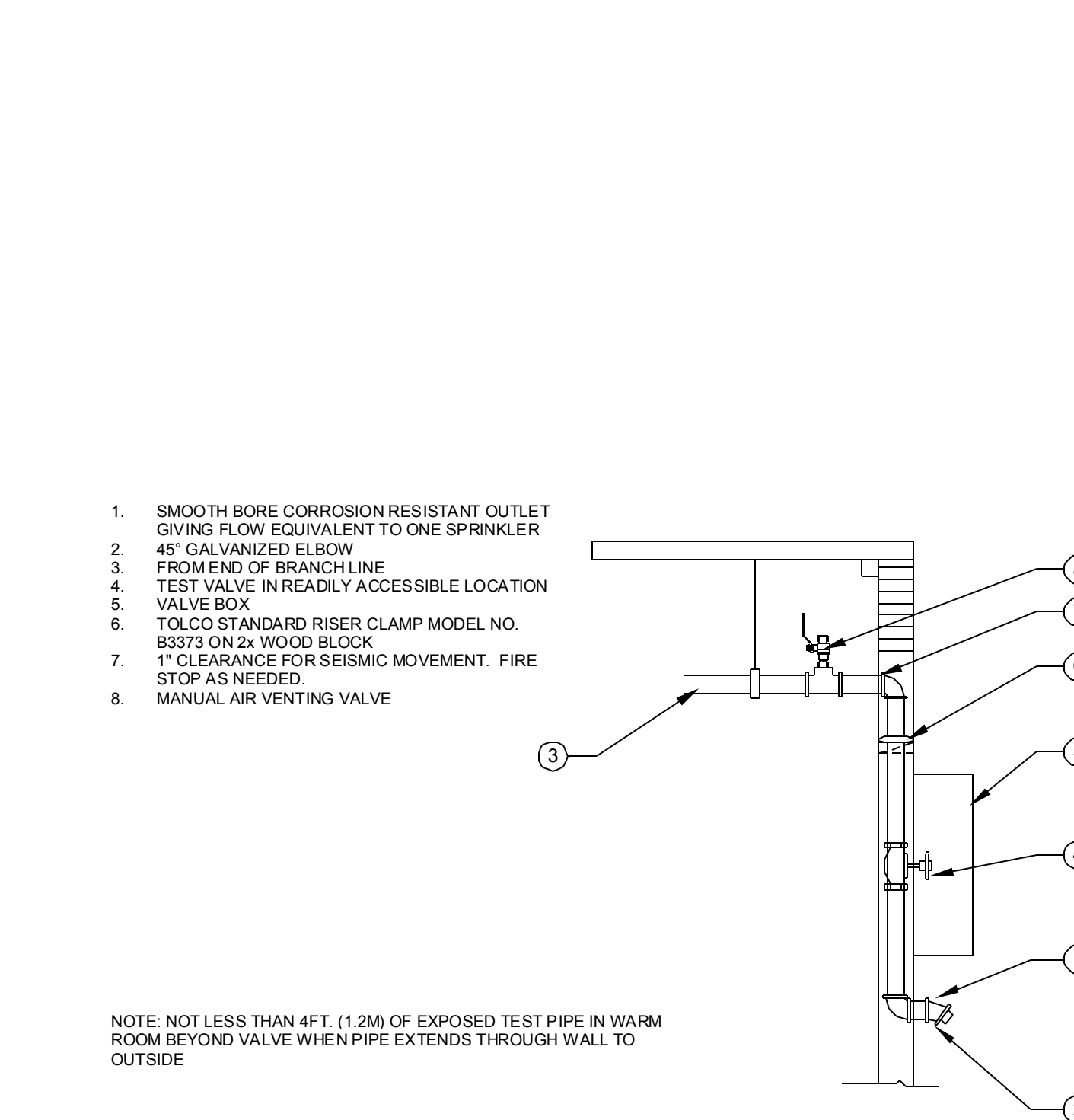
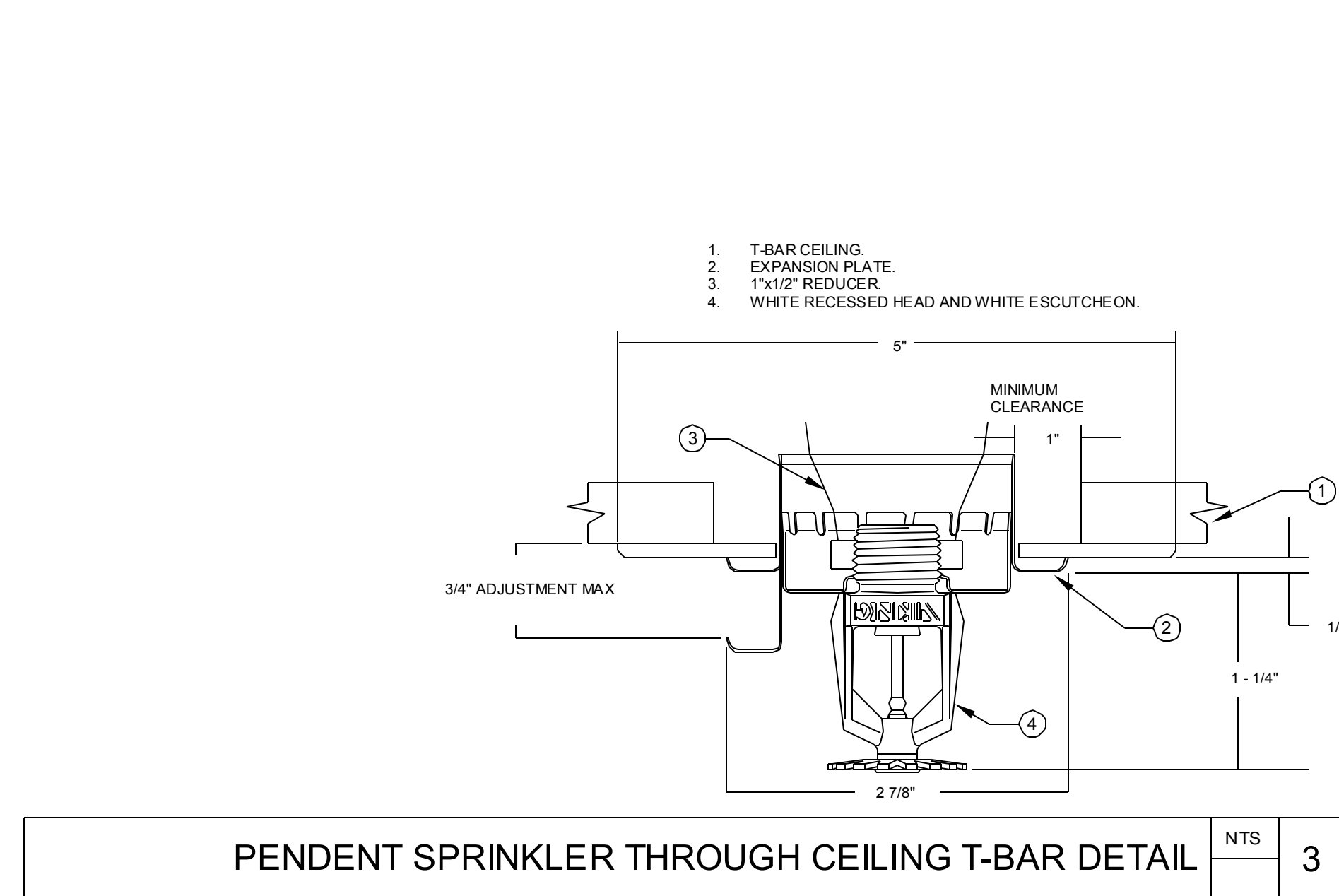
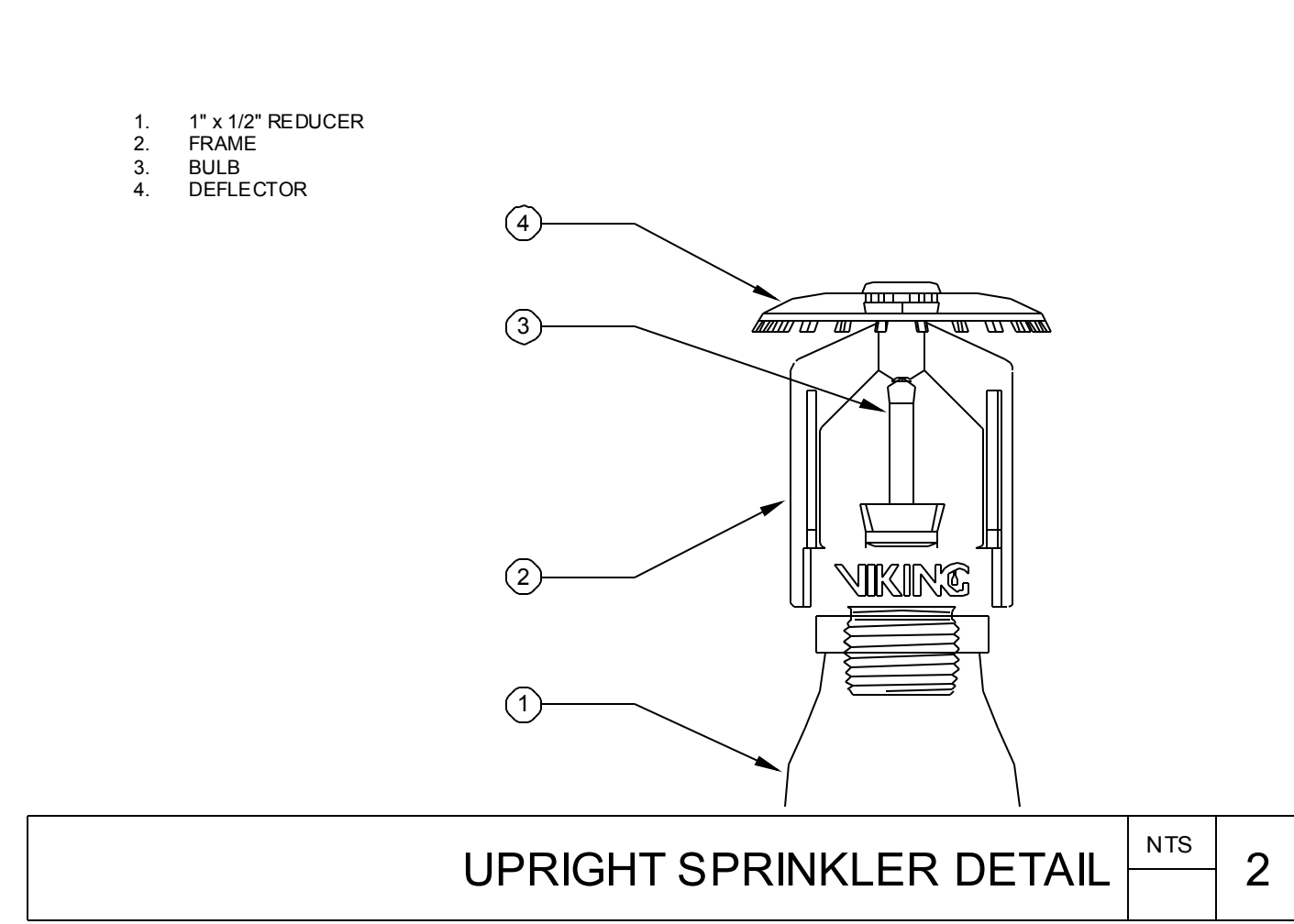
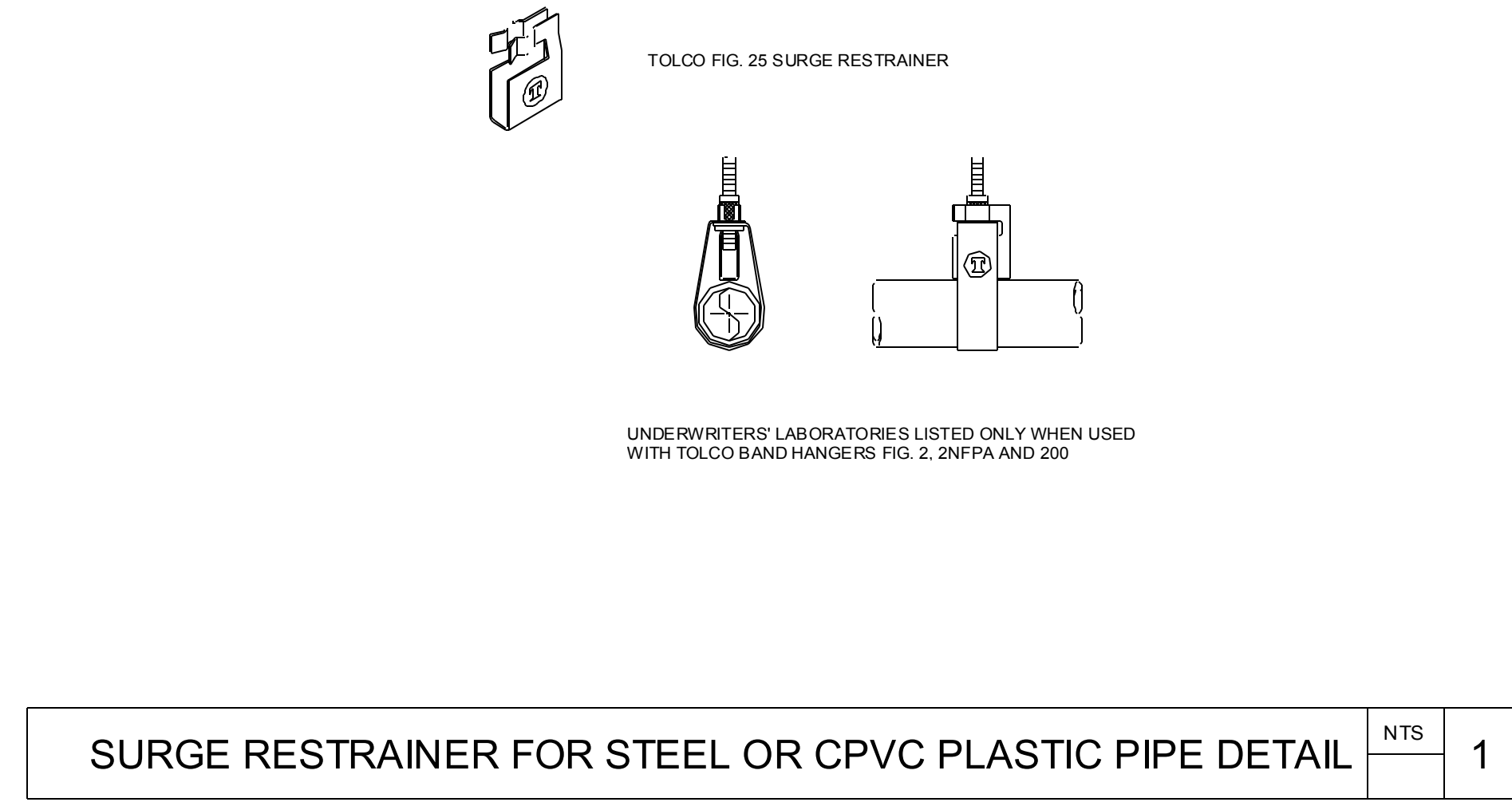
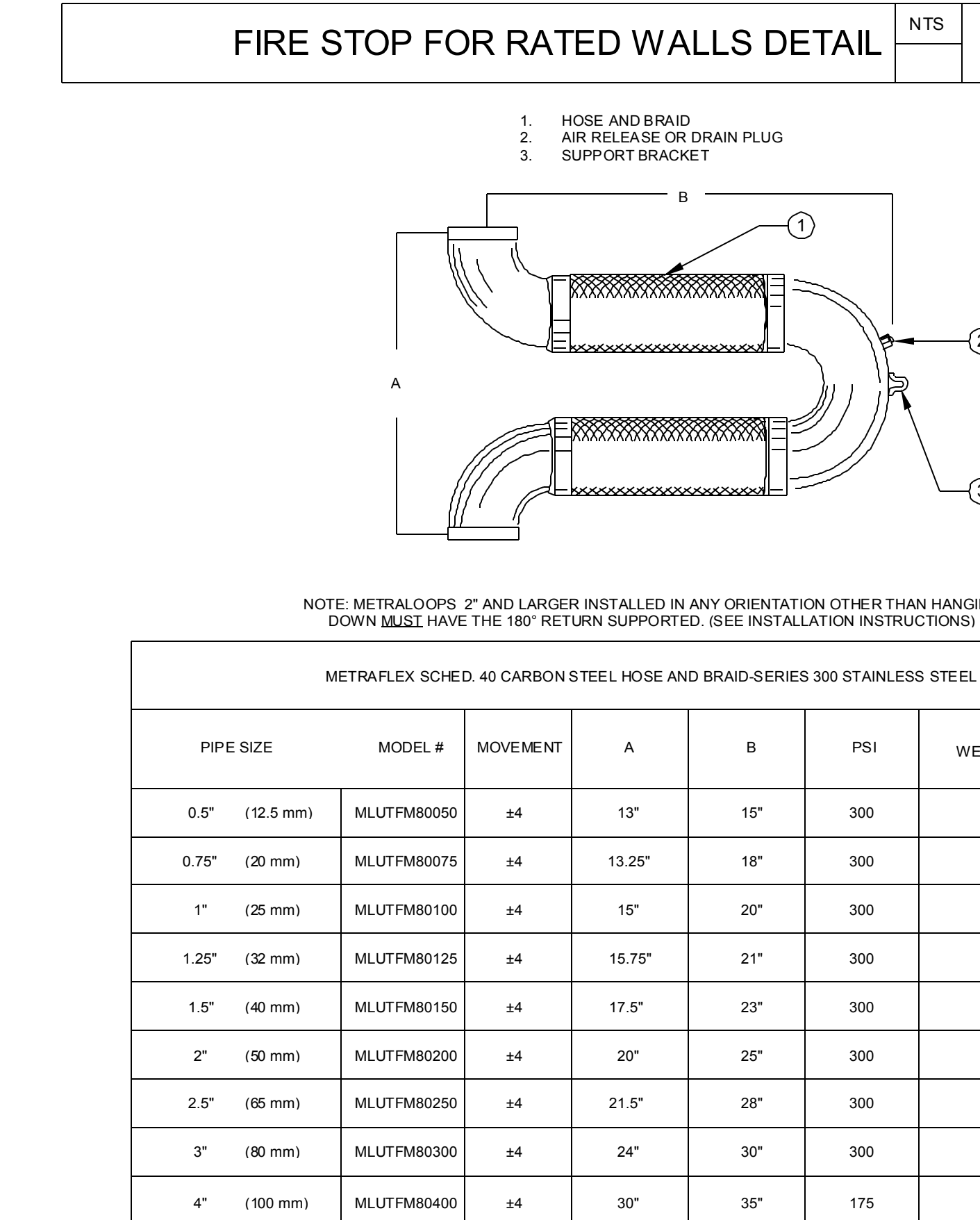
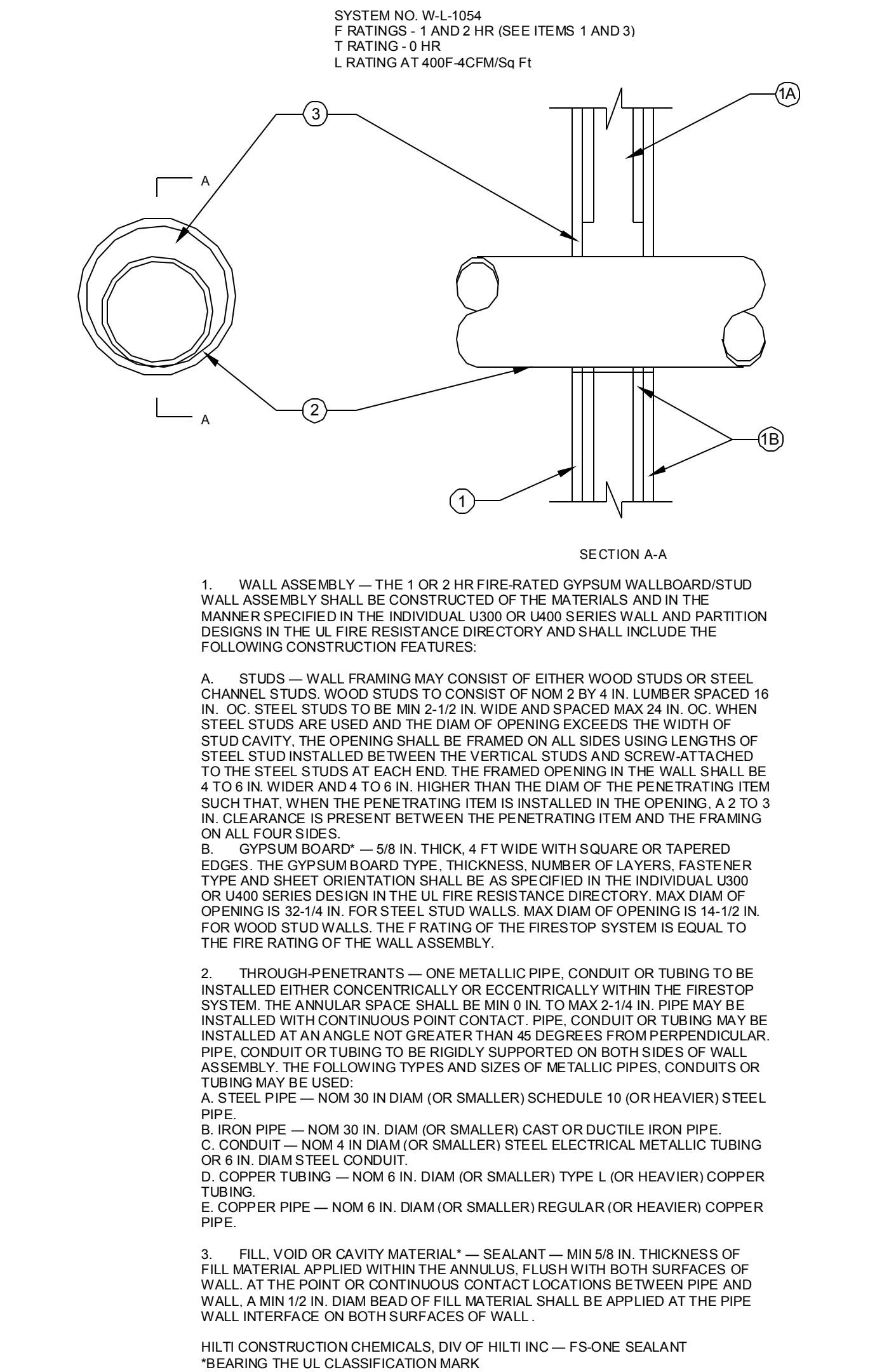
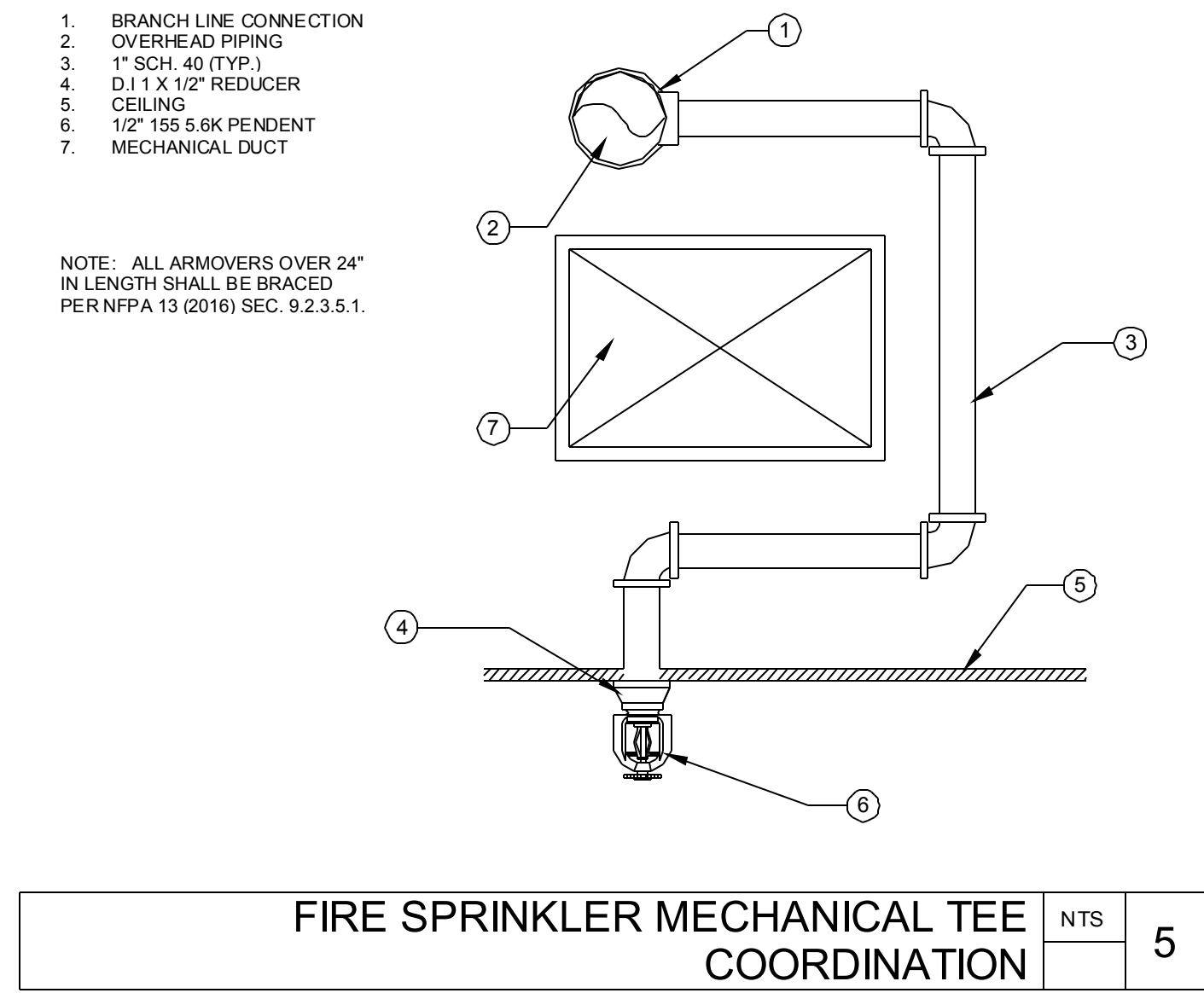
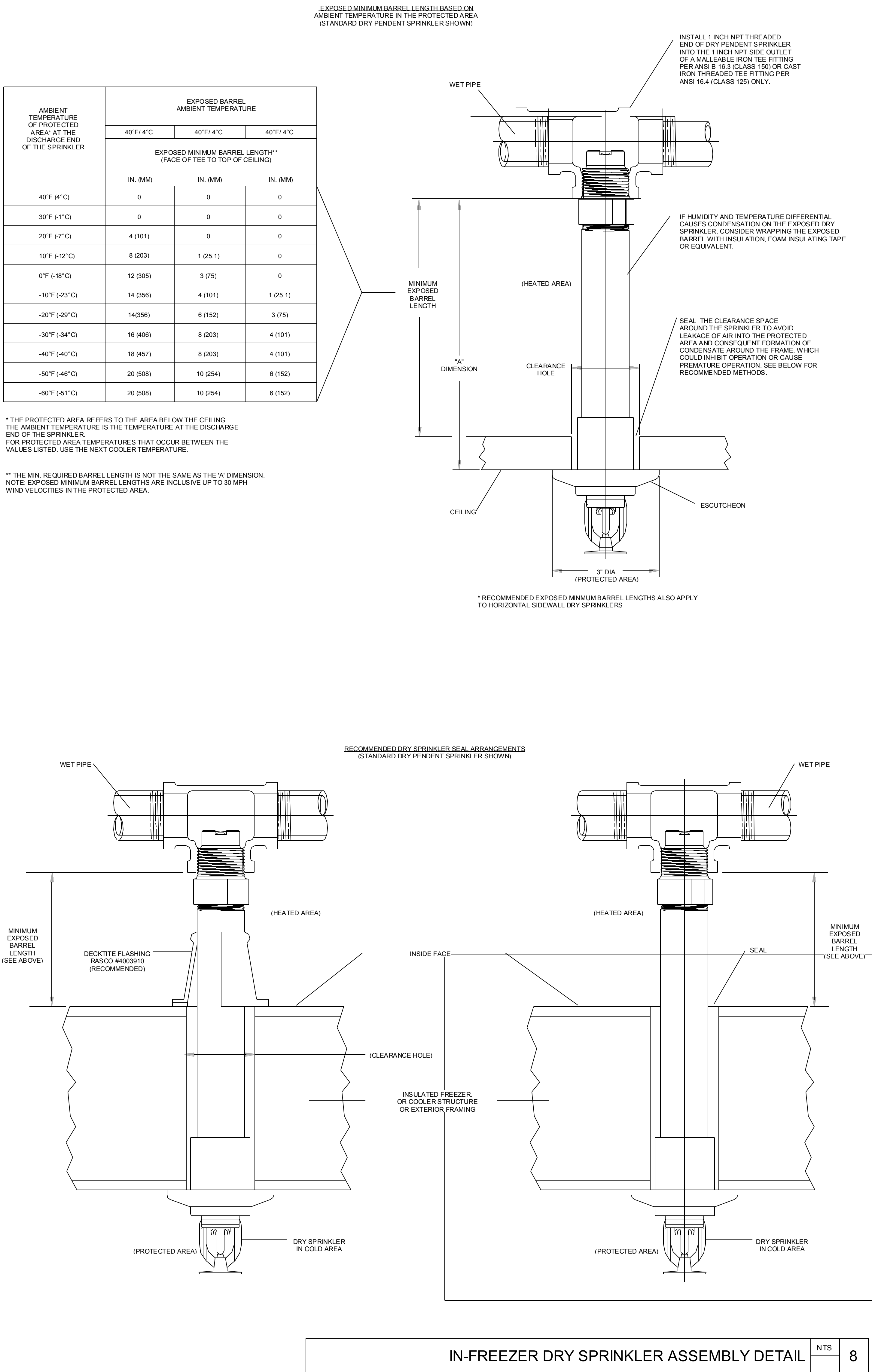
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<b>KEY PLAN</b>			
<h2 style="margin: 0;">WASHINGTON UNIFIED SCHOOL DISTRICT</h2> <p style="margin: 0;">930 WEST ACRE ROAD WEST SACRAMENTO, CA 95691</p>			
<b>DESIGN DEVELOPMENT</b>			
<h2 style="margin: 0;">WESTMORE OAKS SCHOOL</h2> <p style="margin: 0;">NEW BLDGS F &amp; G AND BLDG M ADDITION 1504 FALLBROOK STREET WEST SACRAMENTO, CA 95691</p>			
<h2 style="margin: 0;">FIRE SPRINKLER SEISMIC CALCULATIONS</h2>			

Date	Project Number
05/20/2019	19003
Scale	Drawing Number
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Drawn	Checked
KT	DS





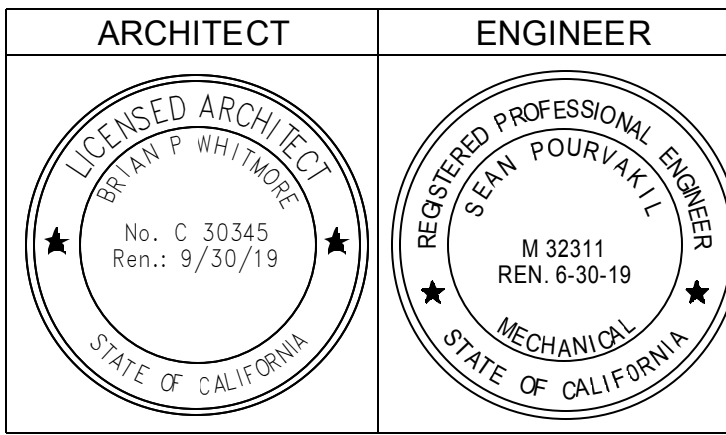




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DATE: 05/20/2019

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
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WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

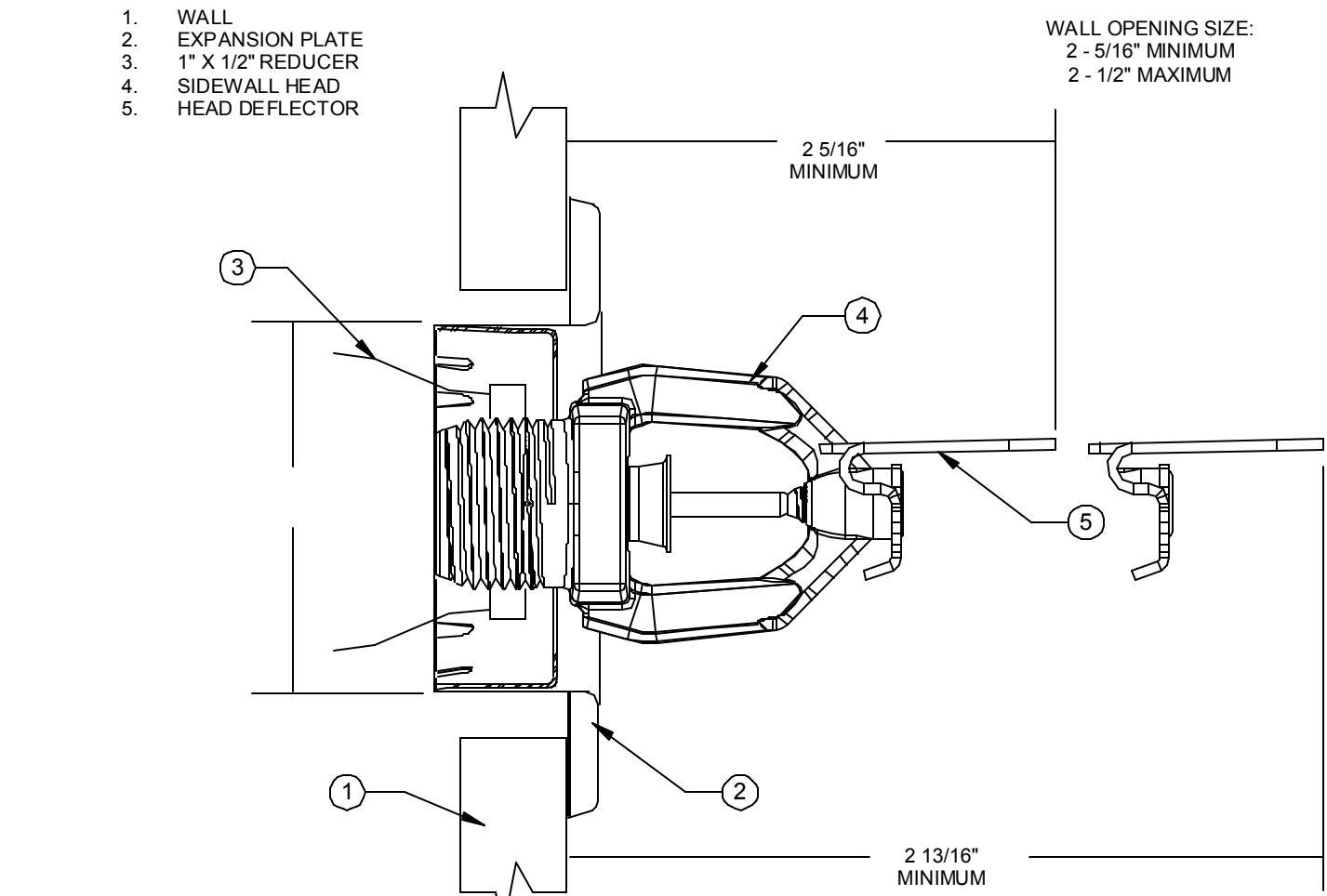
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SCHOOL  
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ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

FIRE SPRINKLER DETAILS

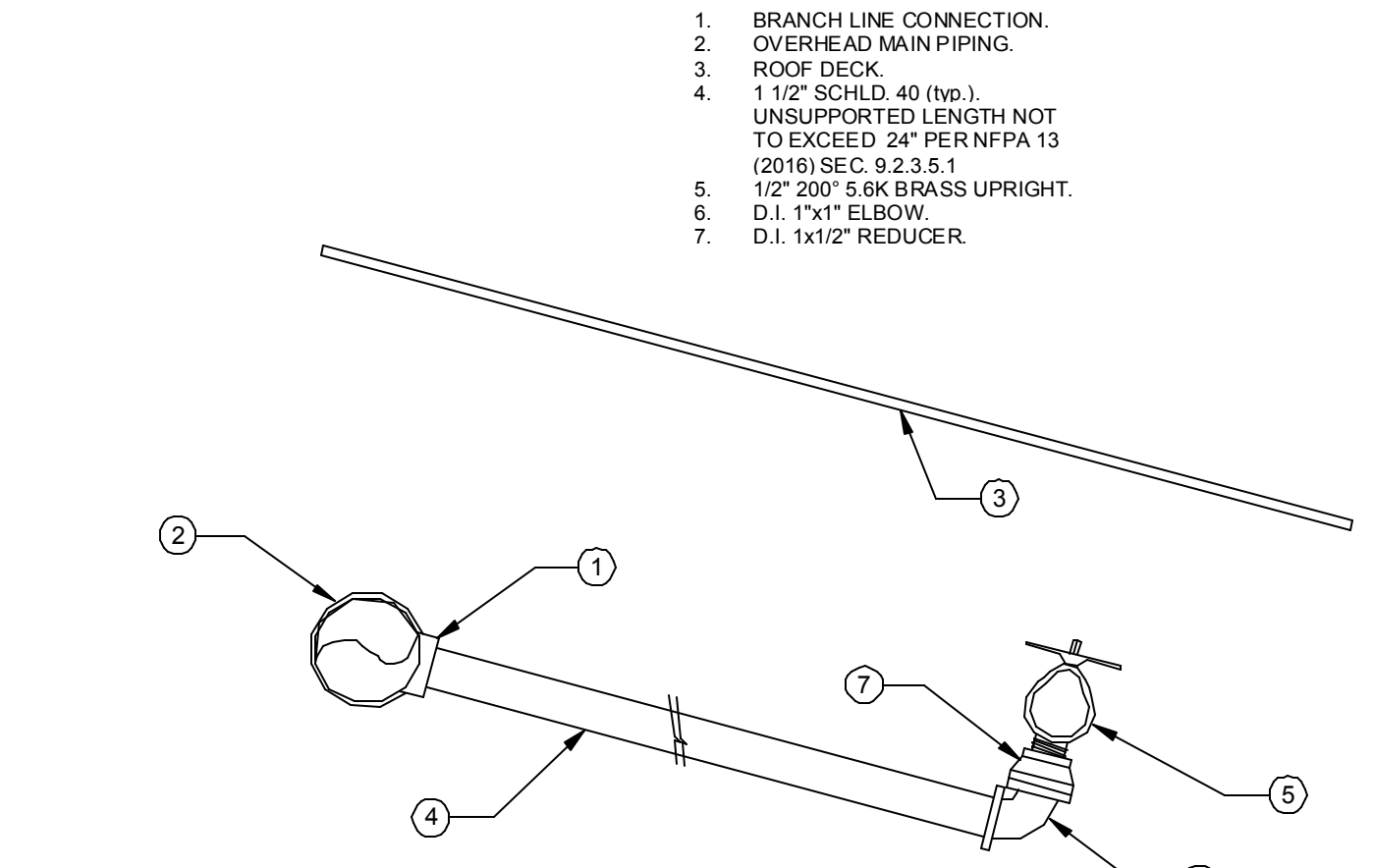
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Drawn: KT  
Checked: DS

Project Number: 19003  
Drawing Number: FP5.0

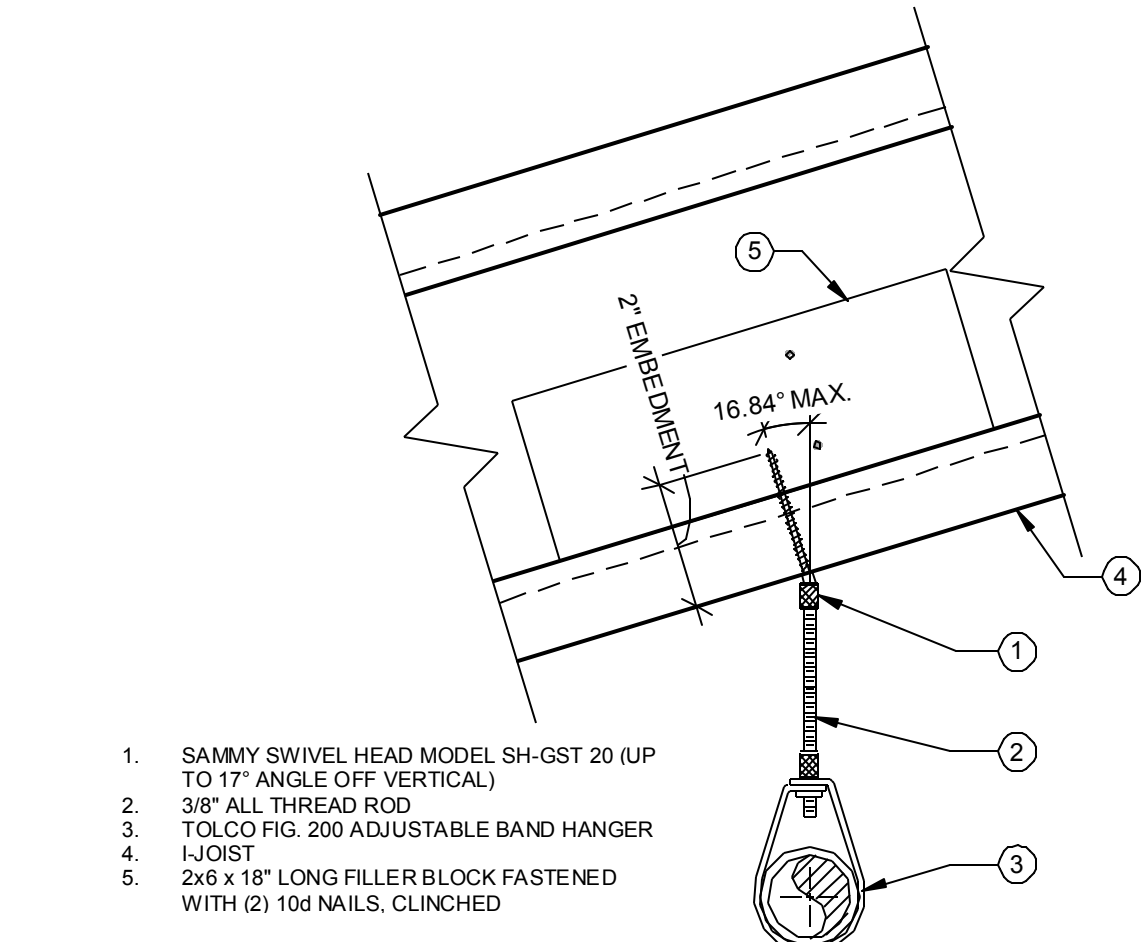




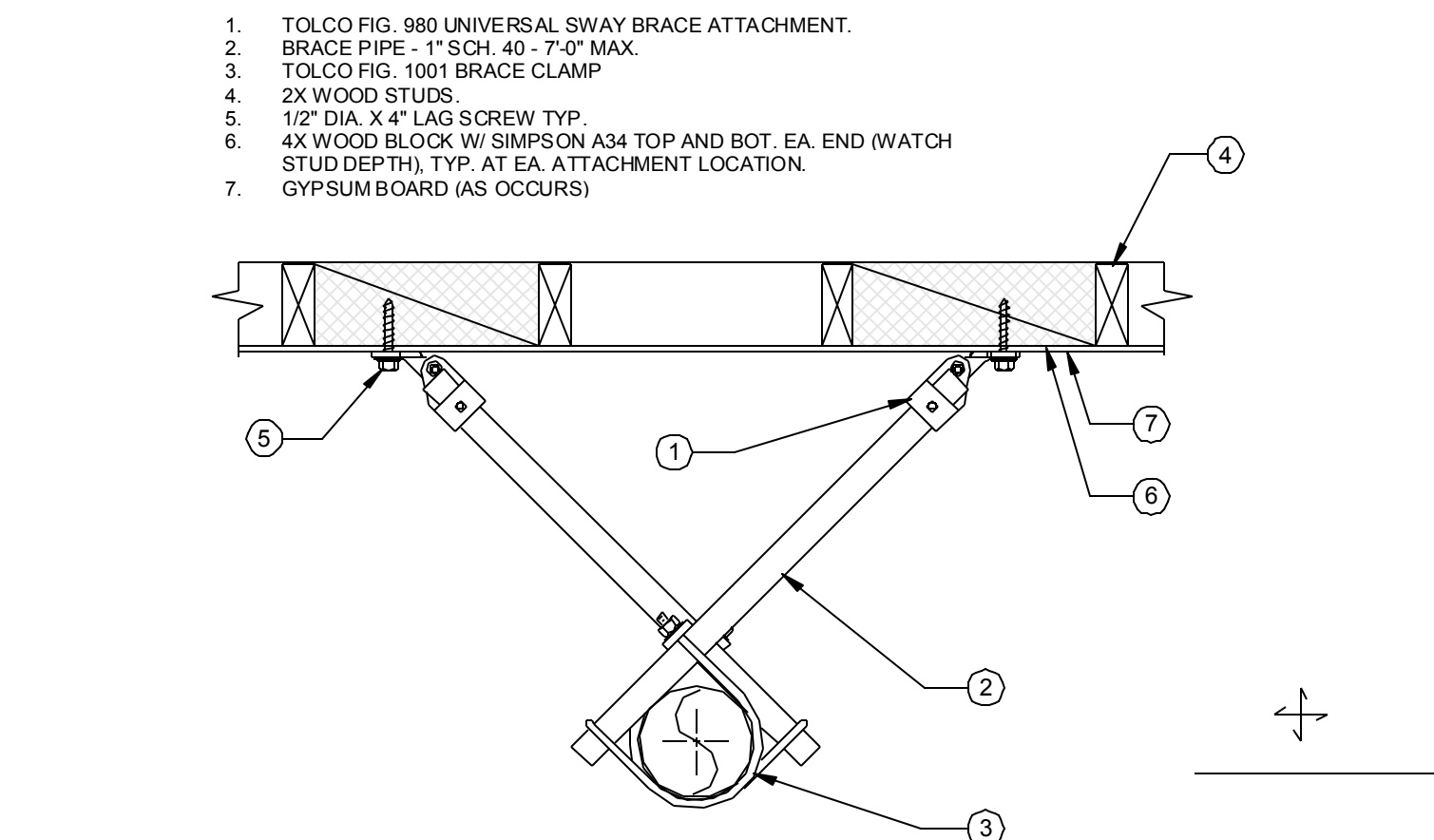
SIDEWALL SPRINKLER DETAIL NTS 11



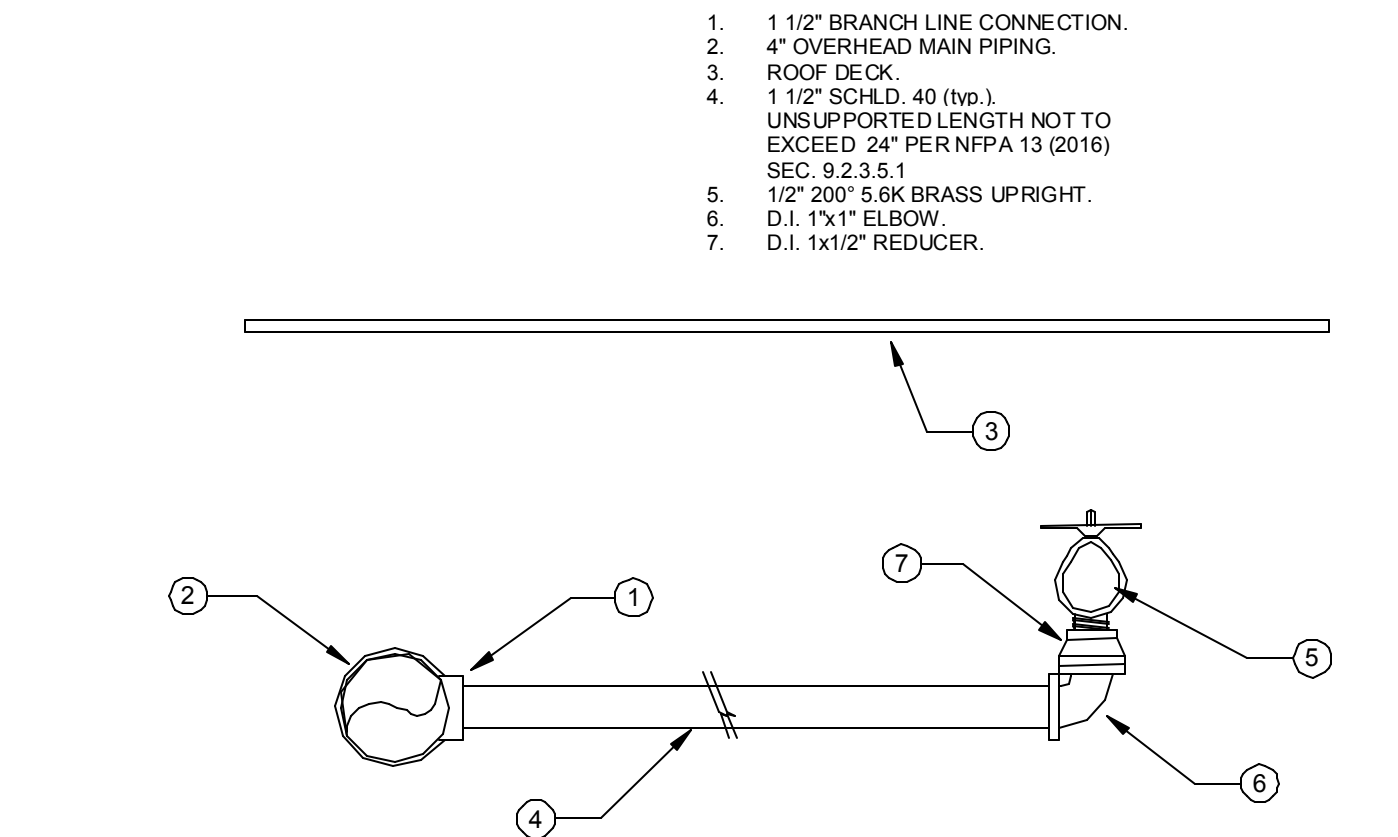
SPRINKLER ASSEMBLY (SLOPED) NTS 8



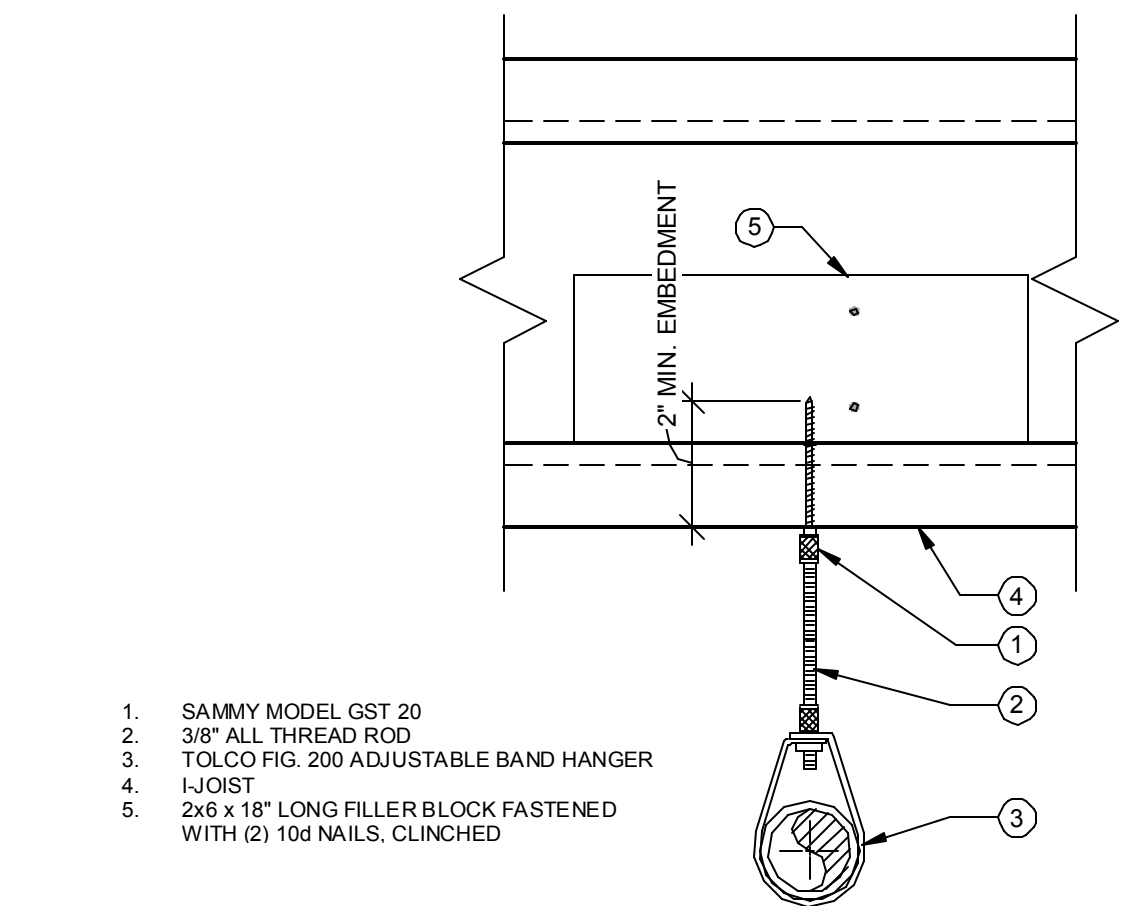
SAMMY SWIVEL HEAD FOR WOOD I JOIST (SLOPED) NTS 4



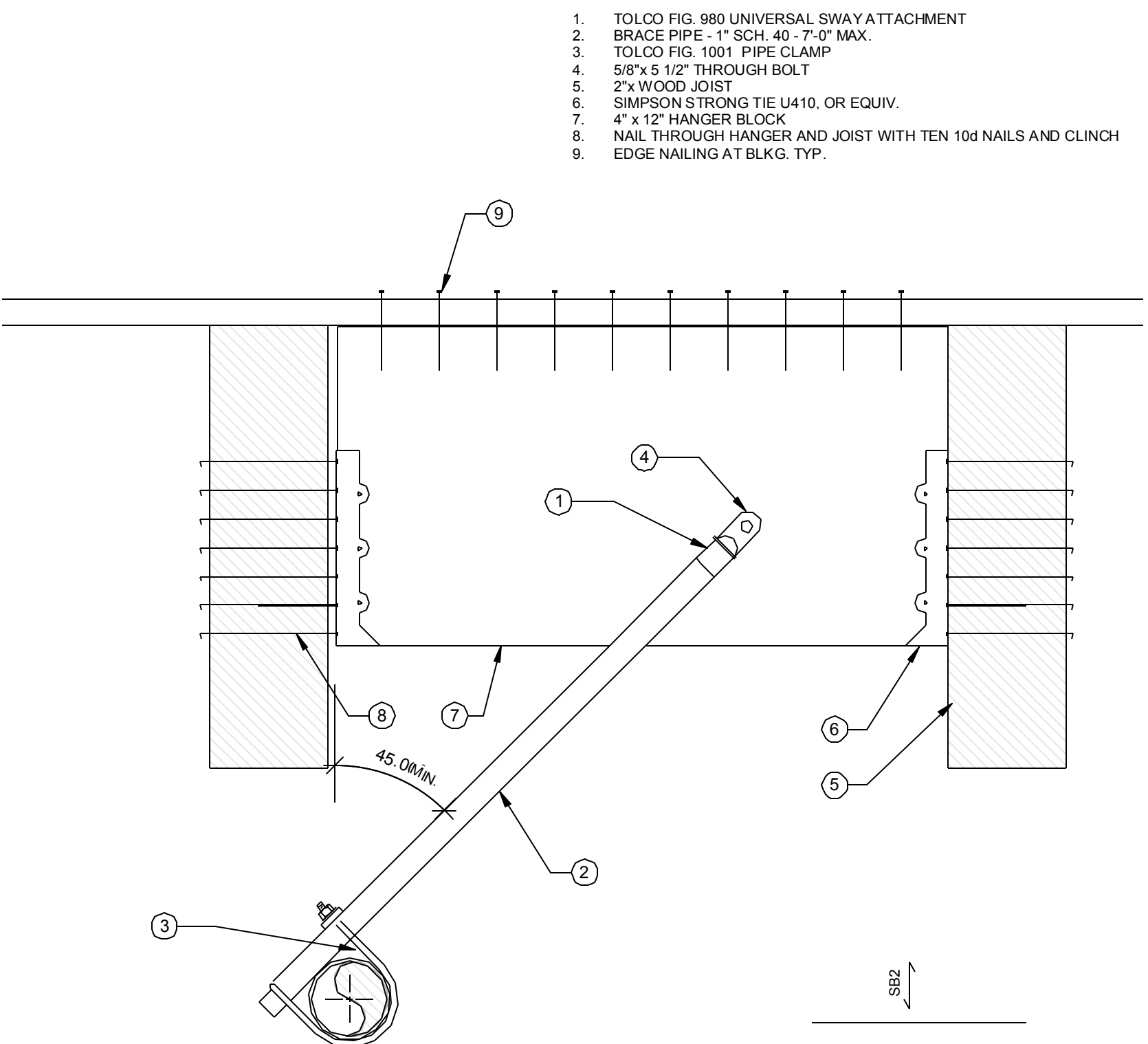
4-WAY NON-THREADED BRACE PIPE DETAIL NTS 1



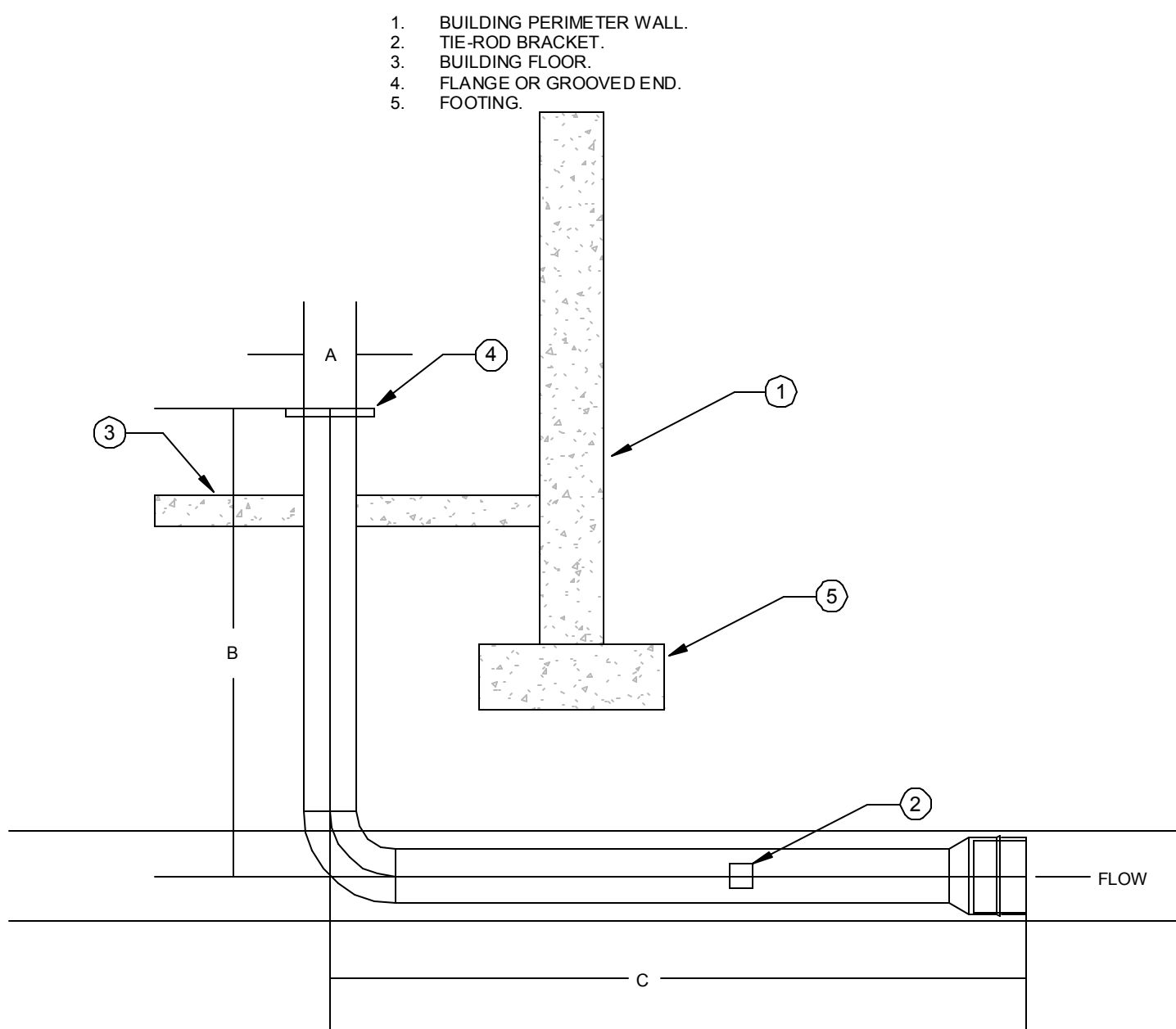
SPRINKLER ASSEMBLY DETAIL NTS 9



SAMMY SWIVEL HEAD FOR WOOD I JOIST NTS 5



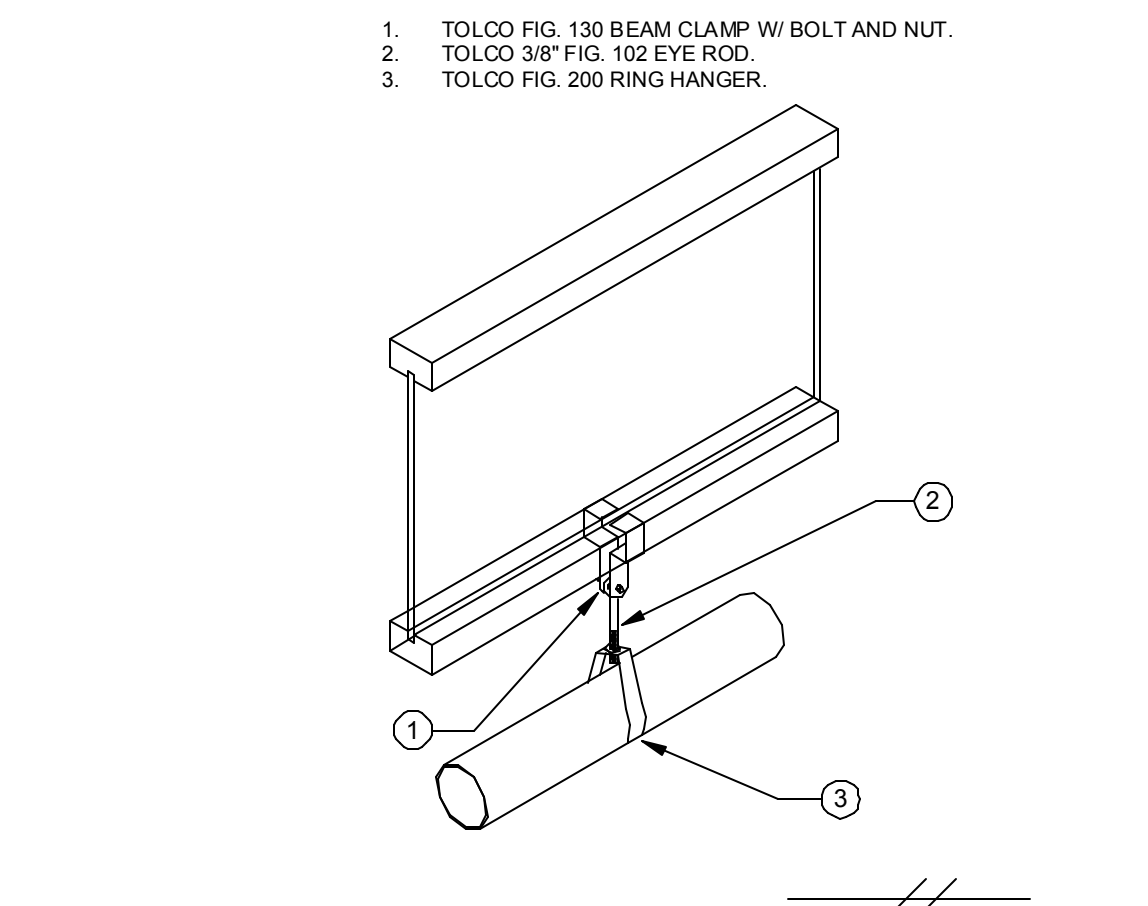
LATERAL BRACE I JOIST DETAIL NTS 2



SIZE (DN)		A (OD)		B		C		WEIGHT	
IN.	MM	FT.	MM	FT	CM	FT	CM	LBS	KG
4	100	4 1/2	114	6	153	6	153	71	32
6	150	6 5/8	168	6	153	6	153	98	44
8	200	8 5/8	219	6	153	6	153	129	59
10	250	10 3/4	273	6	153	6	153	202	92

NOTE: EACH B (VERTICAL) AND C (HORIZONTAL) LEG IS CUSTOMIZABLE FROM 3' TO 20' WITH UJLFM APPROVALS.

AMES IN BUILDING RISER DETAIL NTS 10



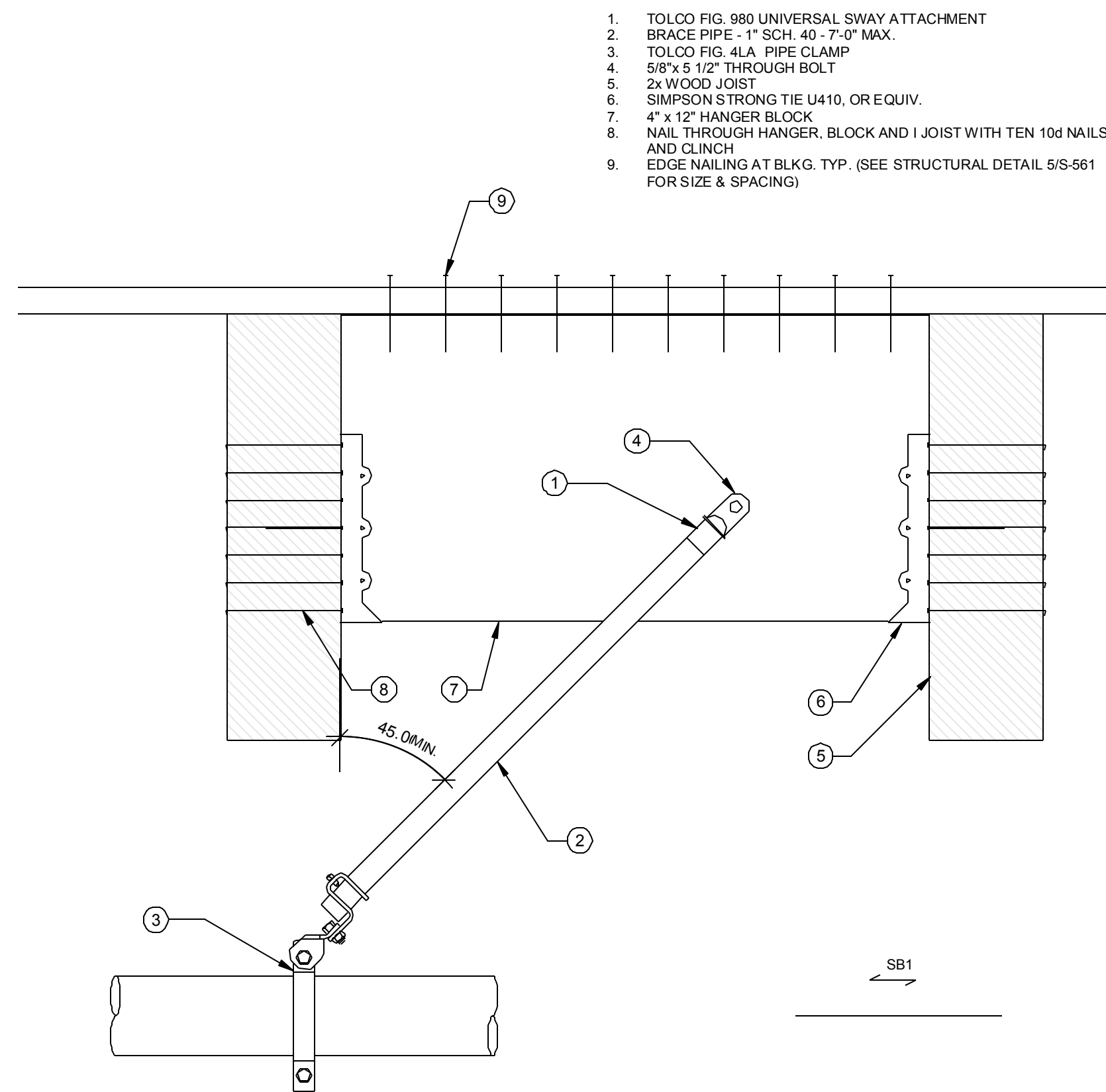
BEAM CLAMP DETAIL NTS 6

1. #12 SPLAYED SEISMIC RESTRAINT WIRE (4 TIGHT TURNS MIN)  
2. I-JOIST  
3. 1/4\"/>

TABLE 9.3.6.4 (a) MAXIMUM SPACING (ft) OF STEEL BRANCH LINE RESTRAINTS			
SEISMIC COEFFICIENT (Cp)			
PIPE (IN.)	Cp ≤ 0.50	0.5 < Cp ≤ 0.71	Cp > 0.71
1	43	36	26
1 1/4	46	39	27
1 1/2	49	42	29
2	53	45	31

NOTE: SEISMIC COEFFICIENT IS 0.42

TWO WIRE RESTRAINT I JOIST NTS 7



LONGITUDINAL BRACE I JOIST DETAIL NTS 3

DSA STAMP

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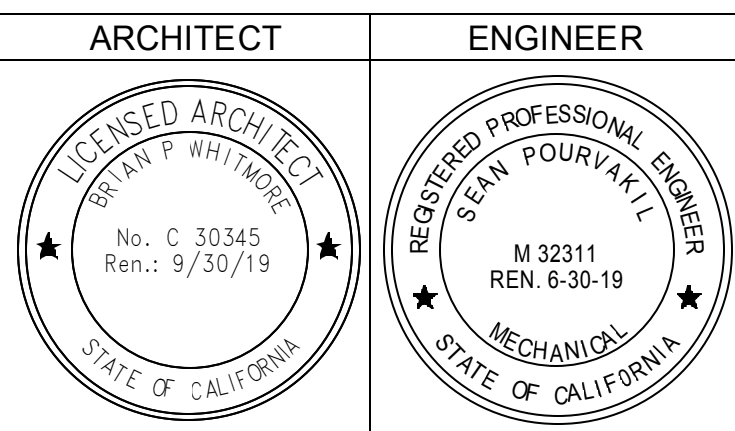
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NO.	REMARKS	DATE

DRAWING STATUS	DATE
● DSA PLAN CHECK	05/20/2019
○ DSA BACK CHECK	
○ BIDDING	
○ CONSTRUCTION	

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

FIRE SPRINKLER DETAILS

Date  
05/20/2019  
Scale  
1/4" = 1'-0"

Project Number  
19003  
Drawing Number  
FP5.1

Drawn  
KT

Checked  
DS



1 Bldg F Fire Sprinkler Reflected Ceiling Plan  
SCALE: 1/8" = 1'-0"



FIRE SPRINKLER HEAD SCHEDULE						
SYMBOL	TYPE	TEMP	ORF	K	FINISH	QUANTITY
○	VK 300 QR SSU SPRINKLER	200	1/2"	5.6	BRASS	146
⊙	VK 302 QR SSP SPRINKLER	155	1/2"	5.6	CHROME	100
▷	VK 305 QR SSP SPRINKLER	155	1/2"	5.6	BRASS	18

- KEY NOTES**
- 1 STANDARD SPRAY QUICK-RESPONSE SEMI-RECESSED PENDENT FIRE SPRINKLER
  - 2 STANDARD SPRAY QUICK-RESPONSE UPRIGHT FIRE SPRINKLER
  - 3 STANDARD SPRAY QUICK-RESPONSE SIDE WALL FIRE SPRINKLER FIRE PROTECTION

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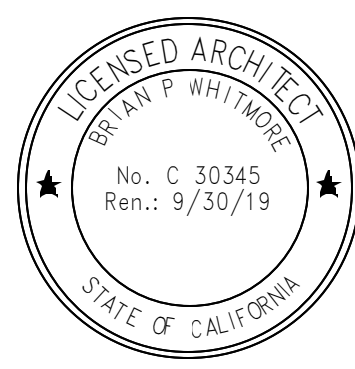



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DRAWING STATUS	<input checked="" type="radio"/> DSA PLAN CHECK	DATE
	<input type="radio"/> DSA BACK CHECK	05/20/2019
	<input type="radio"/> BIDDING	
	<input type="radio"/> CONSTRUCTION	

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

FIRE SPRINKLER  
BUILDING F REFLECTED  
CEILING PLAN

Date	05/20/2019	Project Number	19003
Scale	1/8" = 1'-0"	Drawing Number	PPF2.1
Drawn	KT	Checked	DS







# Bldg G Fire Sprinkler Reflected Ceiling Plan

SCALE: 1/8" = 1'-0"



## FIRE SPRINKLER HEAD SCHEDULE

SYMBOL	TYPE	TEMP	ORF	K	FINISH	QUANTITY
◦	VK 300 QR SSU SPRINKLER	200	1/2"	5.6	BRASS	136
●	VK 302 QR SSP SPRINKLER	155	1/2"	5.6	CHROME	86
▷	VK 305 QR SSP SPRINKLER	155	1/2"	5.6	BRASS	16

## KEY NOTES

- 1 STANDARD SPRAY QUICK-RESPONSE UPRIGHT FIRE SPRINKLER
- 2 STANDARD SPRAY QUICK-RESPONSE SEMI-RECESSED PENDENT FIRE SPRINKLER
- 3 STANDARD SPRAY QUICK-RESPONSE SIDE WALL FIRE SPRINKLER FIRE PROTECTION

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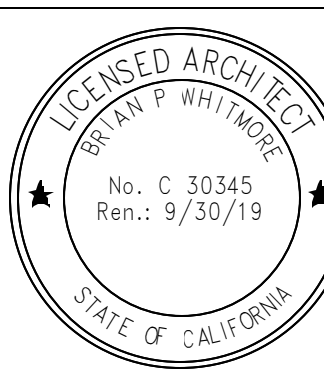
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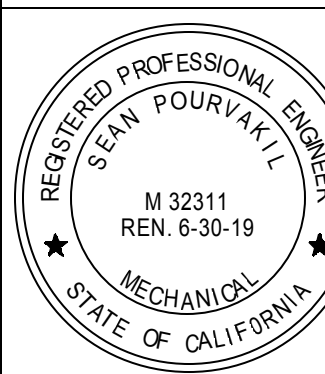
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## ARCHITECT



## ENGINEER



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NO.	REMARKS	DATE

DRAWING STATUS	DATE
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<input type="radio"/> DSA BACK CHECK	
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<input type="radio"/> CONSTRUCTION	

## KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

## DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
WEST SACRAMENTO, CA 95691

## FIRE SPRINKLER BUILDING G REFLECTED CEILING PLAN

Date  
05/20/2019

Scale  
1/8" = 1'-0"

Drawn  
KT

Project Number  
19003

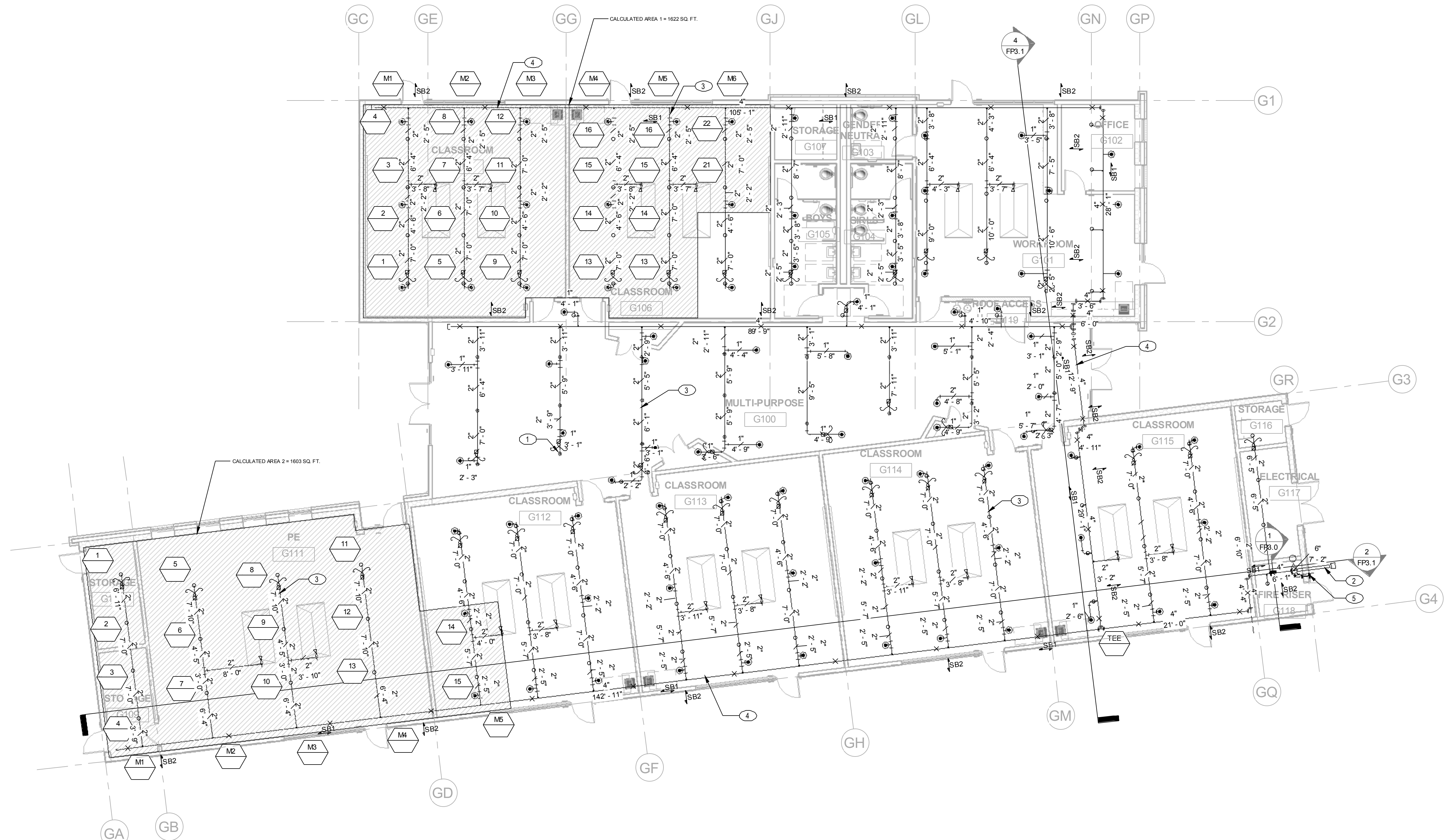
Drawing Number

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FPG2.1



1 Bldg G Fire Sprinkler Piping Plan  
SCALE: 1/8" = 1'-0"



KEY NOTES

- 1 STANDARD SPRAY QUICK-RESPONSE UPRIGHT FIRE SPRINKLER
- 2 AMES IN-BUILDING RISER
- 3 2" SCH.40 BRANCH LINE PIPE
- 4 4" SCH.10 BLK STEEL BULK PIPE
- 5 10" ALARM BELL

HYDRAULIC CALCULATION

DESIGN INFORMATION	
CALCULATION AREA#	1
SPRINKLER HEAD TYPE	SSU
K-FACTOR	5.6
SYSTEM TYPE (WET/DRY)	WET
HAZARD CLASSIFICATION	LIGHT
DENSITY (GPM/S.F.)	1.0
AREA P/R HEAD	130 MAX
AREA OF OPERATION (S.F.)	1208 (LARGEST OPEN AREA)
AREA OF OPERATION ADJUSTMENTS:	
DRY PIPE INCREASE (30%)	N/A
SLOPE > 2.12 INCREASE (30%)	1950
CEILING HEIGHT	20 ft
PERCENT REDUCTION	25%
CEILING REDUCTION (S.F.)	N/A
ADJUSTED AREA OF OPERATION	1575
ACTUAL AREA OF OPERATION	1622
WATER SUPPLY	55
STATIC (PSI)	51
RESIDUAL (PSI)	1948
FIRE PUMP (GPM @ PSI)	N/A
SYSTEM DEMAND @ SOURCE	
PRESSURE REQUIRED (PSI)	47.79
FLOW REQUIRED (PSI)	471.63
PRESSURE AVAILABLE (PSI)	54.71
SAFETY MARGIN (%)	12.64%
HOSE STREAM ALLOWANCE (GPM)	N/A
INSIDE 100 OUTSIDE	N/A
SYSTEM DEMAND AT BASE OF RISER	
PRESSURE REQUIRED (PSI)	31.69
FLOW REQUIRED (GPM)	471.63

HYDRAULIC CALCULATION

DESIGN INFORMATION	
CALCULATION AREA#	2
SPRINKLER HEAD TYPE	SSU
K-FACTOR	5.6
SYSTEM TYPE (WET/DRY)	WET
HAZARD CLASSIFICATION	CH1 @ STORAGE
DENSITY (GPM/S.F.)	1.01 @ STORAGE
AREA P/R HEAD	130 MAX
AREA OF OPERATION (S.F.)	1555 (LARGEST OPEN AREA)
AREA OF OPERATION ADJUSTMENTS:	
DRY PIPE INCREASE (30%)	N/A
SLOPE > 2.12 INCREASE (30%)	1950
CEILING HEIGHT	20 ft
PERCENT REDUCTION	25%
CEILING REDUCTION (S.F.)	375
ADJUSTED AREA OF OPERATION	1575
ACTUAL AREA OF OPERATION	1603
WATER SUPPLY	55
STATIC (PSI)	51
RESIDUAL (PSI)	1948
FIRE PUMP (GPM @ PSI)	N/A
SYSTEM DEMAND @ SOURCE	
PRESSURE REQUIRED (PSI)	48.70
FLOW REQUIRED (PSI)	598.96
PRESSURE AVAILABLE (PSI)	54.54
SAFETY MARGIN (%)	10.71%
HOSE STREAM ALLOWANCE (GPM)	N/A
INSIDE 250 OUTSIDE	N/A
SYSTEM DEMAND AT BASE OF RISER	
PRESSURE REQUIRED (PSI)	31.74
FLOW REQUIRED (GPM)	598.96

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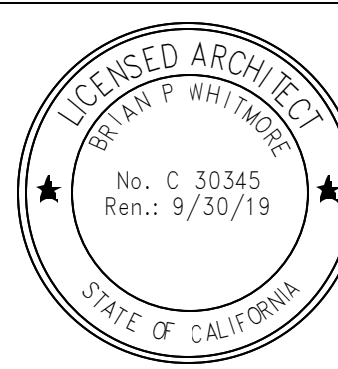


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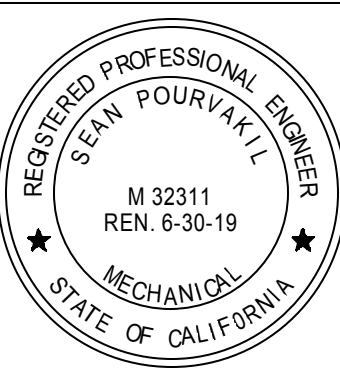
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NO.	REMARKS	DATE

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<input type="radio"/> BIDDING	
<input type="radio"/> CONSTRUCTION	

KEY PLAN

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WEST ACRE ROAD  
WEST SACRAMENTO, CA 95691

DESIGN DEVELOPMENT

WESTMORE OAKS  
SCHOOL  
NEW BLDGS F & G AND BLDG M  
ADDITION  
1504 FALLBROOK STREET  
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FIRE SPRINKLER  
BUILDING G PIPING PLAN

Date

05/20/2019

Scale

As indicated

Drawn

KT

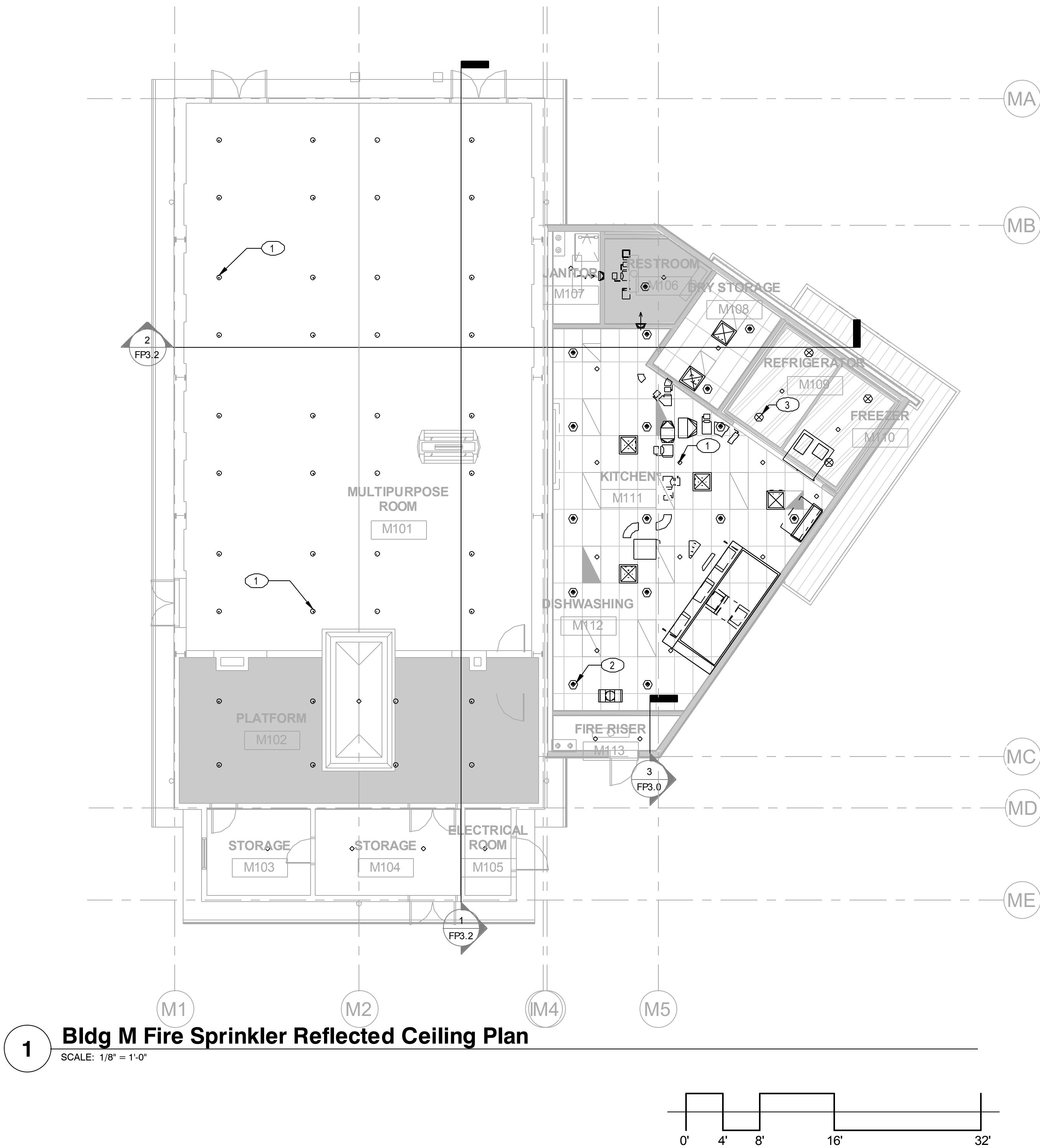
Project Number

19003

Drawing Number

FPG4.1





FIRE SPRINKLER HEAD SCHEDULE						
SYMBOL	TYPE	TEMP	ORF	K	FINISH	QUANTITY
○	VK 300 QR SSU SPRINKLER	200	1/2"	5.6	BRASS	63
●	VK 302 QR SSP SPRINKLER	200	1/2"	5.6	CHROME	16
⊗	VK 176 QR DRY SPRINKLER	155	1/2"	5.6	CHROME	4

KEY NOTES

- 1 STANDARD SPRAY QUICK-RESPONSE UPRIGHT FIRE SPRINKLER
- 2 STANDARD SPRAY QUICK-RESPONSE SEMI-RECESSED PENDENT FIRE SPRINKLER
- 3 STANDARD SPRAY QUICK-RESPONSE SEMI-RECESSED DRY PENDENT FIRE SPRINKLER

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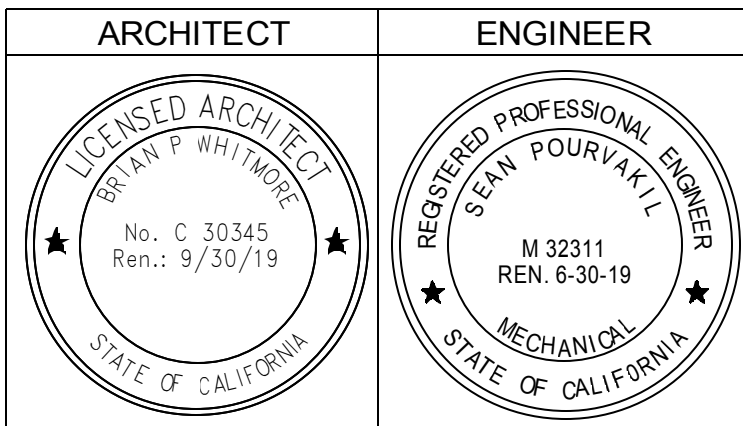
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DESIGN DEVELOPMENT

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ADDITION  
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WEST SACRAMENTO, CA 95691

FIRE SPRINKLER  
BUILDING M REFLECTED  
CEILING PLAN

Date  
05/20/2019

Project Number  
19003

Scale  
1/8" = 1'-0"

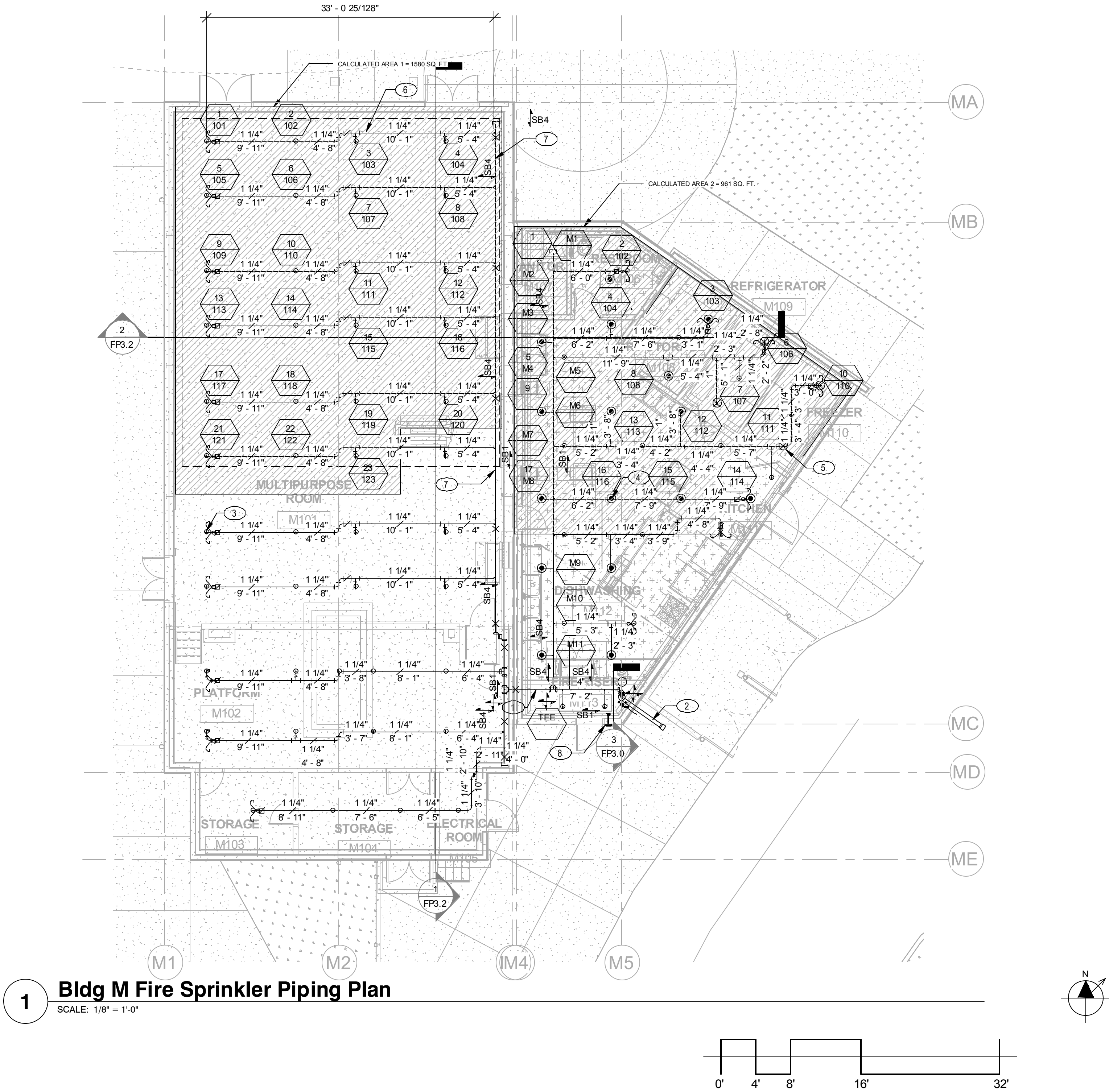
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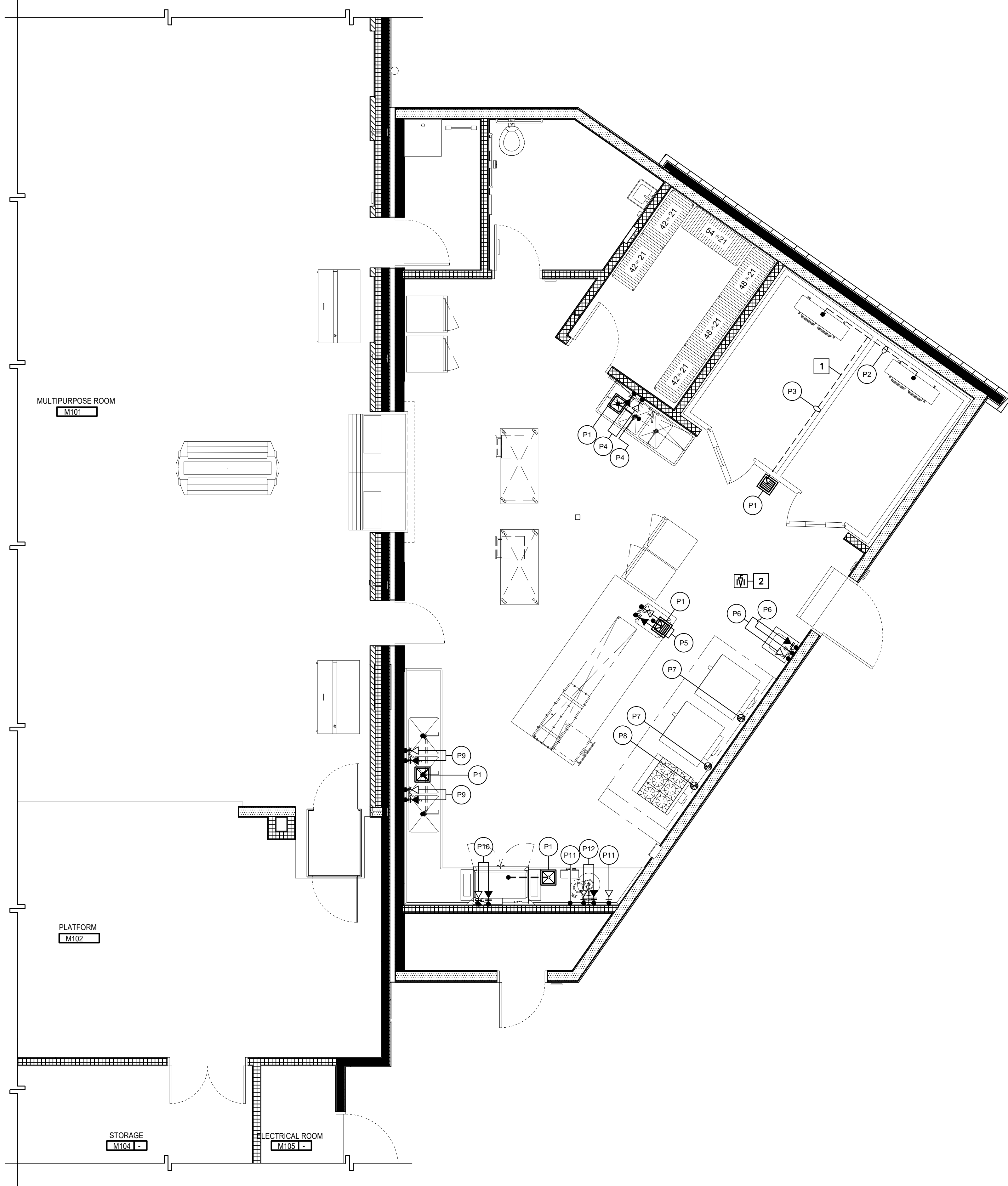








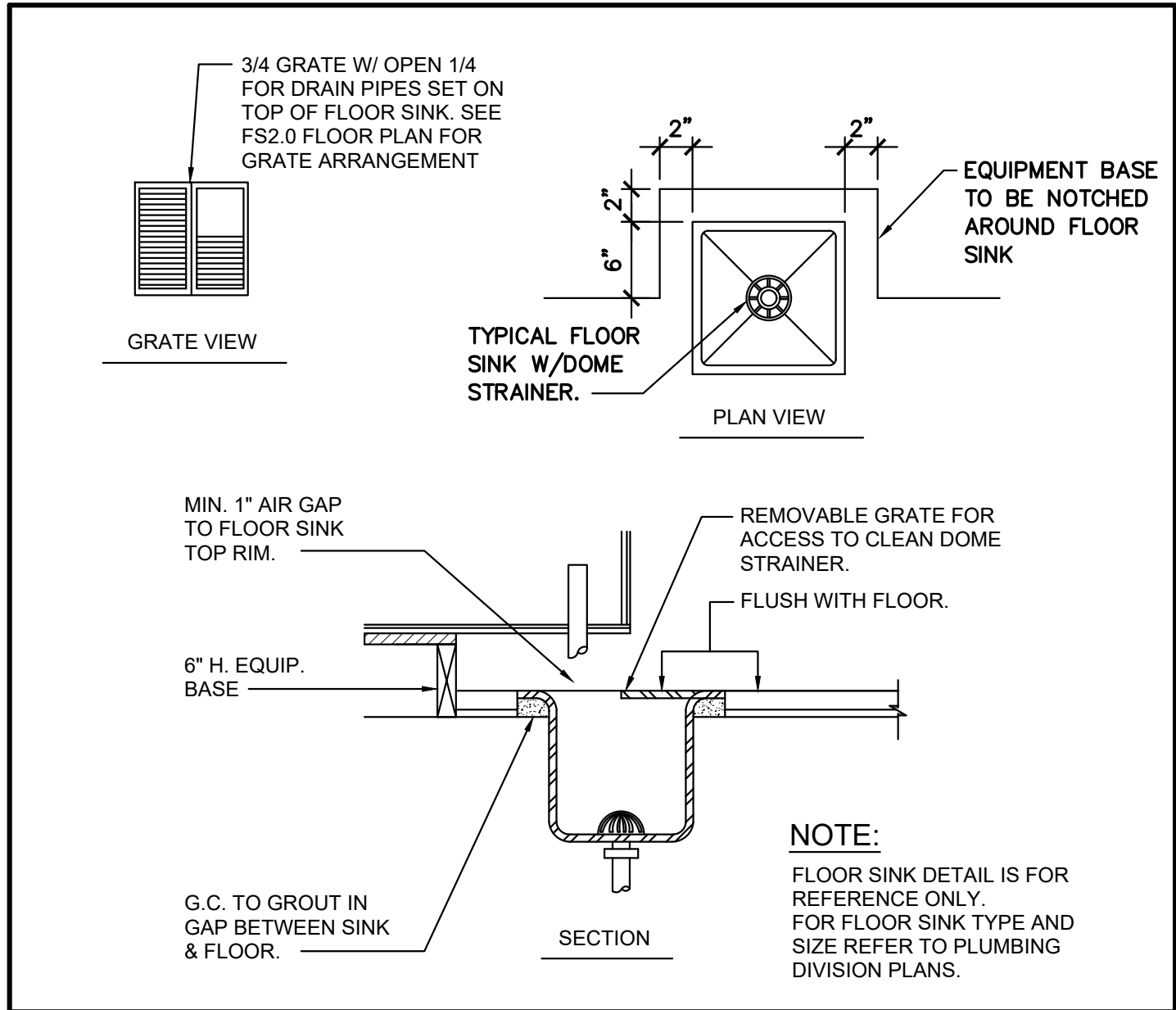
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# FOODSERVICE EQUIPMENT PLUMBING FLOOR PLAN

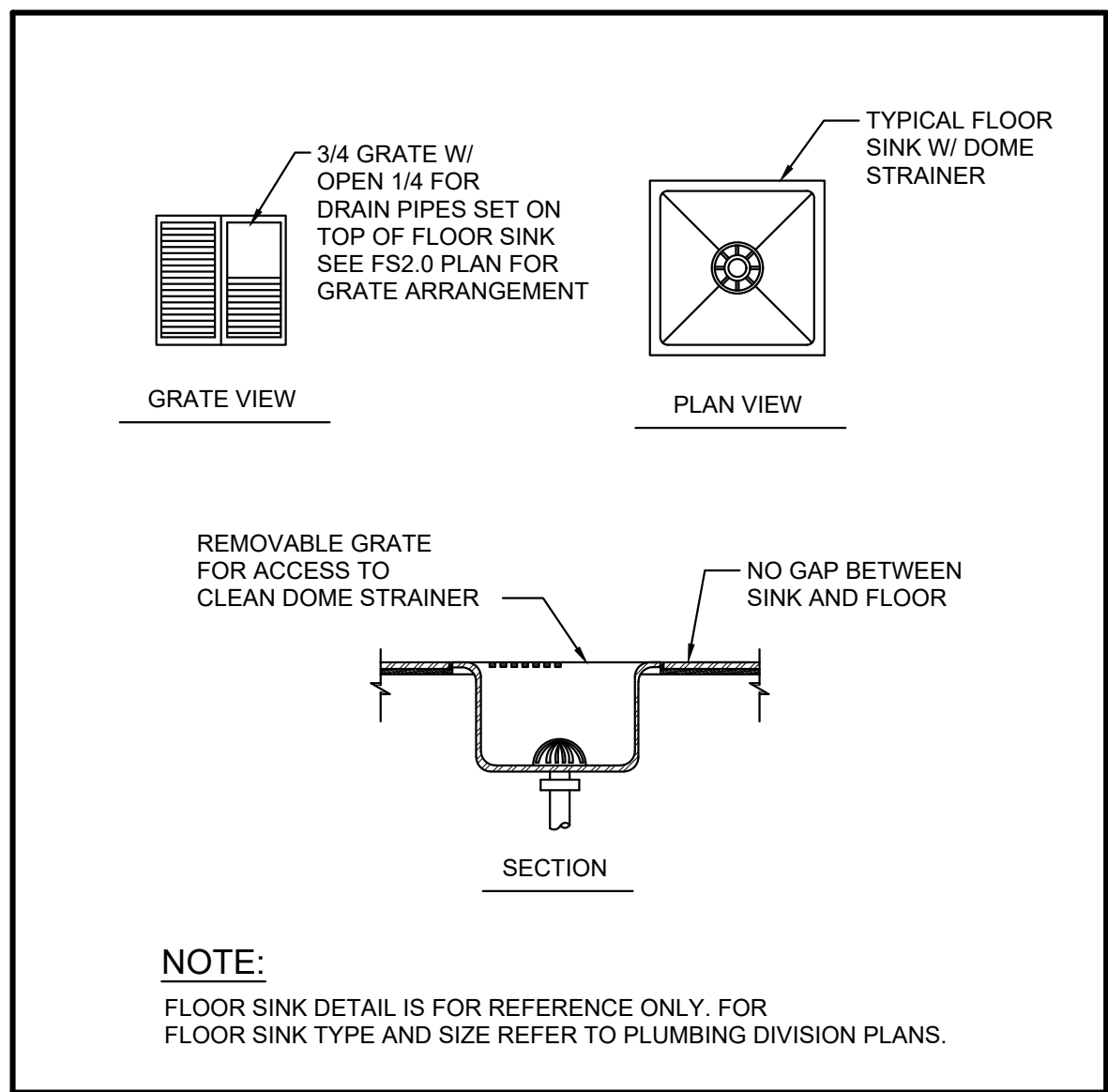
SCALE : 1/4" = 1'-0"

PLUMBING SCHEDULE														
PLUM. NO.	ITEM. NO.	DESCRIPTION	QTY.	WATER			WASTE			GAS			REMARKS	NOTE(S)
				CONN. SIZE	SIZE	HGT. @ WALL	CONN. SIZE	SIZE	HGT. @ WALL	BTU/HR (x1,000)	CONN. SIZE	SIZE		
P1	-	FLOOR SINK	6EA	-	-	-	-	-	+0"	-	-	-	INSTALL FLUSH WITH FINISH FLOOR. PROVIDE GRATE COVER & DOME STRAINER. SIZE 12" X 12" X 8" (REFER TO 2&3/F5.0)	
P2	2	WALK-IN FREEZER CONN. DRAIN FROM COIL CONN. + 70"	1EA	-	-	-	-	1"	-	-	-	-	1" INDIRECT DRAIN TO F.S. P1. SLOPE 1/2" PER FOOT. PROVIDE 1" MIN AIR GAP AT F.S. WITH "P" TRAP.	
P3	3	WALK-IN REFRIGERATOR CONN. DRAIN FROM COIL CONN. + 70"	1EA	-	-	-	-	1"	-	-	-	-	1" INDIRECT DRAIN TO F.S. P1. SLOPE 1/2" PER FOOT. PROVIDE 1" MIN AIR GAP AT F.S. WITH "P" TRAP.	
P4	4	PREP SINK FAUCET W/ 1/2" INLET 8" CENTER	1EA	1/2"	1/2"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
P5	8.1	CHEFS SINK FAUCET W/ 1/2" INLET 8" CENTER	1EA	1/2"	1/2"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1.	
P6	11	WALL MOUNTED HAND SINK FAUCET W/ 1/2" INLET 4" CENTER	2EA	1/2"	1/2"	18"	1 1/2"	-	24"	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. RUN DIRECT WASTE WITH P-TRAP.	
P7	13	DOUBLE STACK CONVECTION OVEN	2EA	-	-	-	-	-	-	120	3/4"	12"	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. OVEN TO BE FURNISHED WITH MANIFOLD TOP DECK TO BOTTOM DECK	
P8	14	OPEN BURNER RANGE W/ OVEN	1EA	-	-	-	-	-	-	194	3/4"	+29"	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. NATURAL GAS PRESSURE REGULATOR PROVIDED BY MFG.	
P9	17	POTWASH SINK FAUCET W/ 3/4" INLET 8" CENTER	2EA	3/4"	3/4"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
P10	19	HIGH TEMP WAREWASHER BUILT-IN BOOSTER	1EA	1/2"	1/2"	12"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 1 1/2" INDIRECT DRAIN TO F.S. P1.	①②③
P11	21	DISPOSER	1EA	1/2"	-	16"	2"	-	10"	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION.	
P12	21	PRE-RINSE FAUCET, SPLASH MOUNT FAUCET W/ 1/2" INLET 8" CENTER	1EA	1/2"	1/2"	16"	-	-	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION.	
P13														
P14														
P15														
P16														
P17														
PLUMBING KEY NOTE(S):										FIRE SYSTEM NOTE:				
① 110 DEGREE (F) MIN. WATER INLET HOT WATER SANITIZING 126 GPH.										1. FURNISH AUTOMATIC GAS SHUT-OFF VALVE INCLUDING ANY NECESSARY ACCESS PANEL. CONTRACTOR SHALL INSTALL THE AUTOMATIC SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION. REFER TO PLUMBING DRAWINGS FOR GAS VALVE LOCATION.				
② WATER HAMMER ARRESTOR (MEETING ASSE-1010 STANDARD) BY PLUMBER IN SUPPLY LINE.														
③ WATER PRESSURE 15-25 PSI; IF HIGHER, FURNISH PRESSURE REGULATOR VALVE WITH INTERNAL THERMAL EXPANSION BYPASS BY PLUMBER.														
④ OVEN TO BE FURNISHED WITH THE UPPER AND LOWER OVEN WITH A GAS MANIFOLD														
⑤ VERIFY REQUIREMENTS WITH EXISTING EQUIPMENT														



## FLUSH FLOOR SINK DETAIL

SCALE : NONE LOCATED UNDER WORK CABINETS














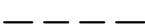
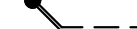
## FLUSH FLOOR SINK DETAIL

SCALE : NONE

## PLUMBING NOTES

(MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE)

1. - PLUMBING CONTRACTOR TO VERIFY ALL INCOMING SERVICE AND MAKE FINAL HOOK-UPS TO ALL APPLICABLE EQUIPMENT AND TO PROVIDE ALL PIPING, TEES, ELLS, TRAPS, FILTERS, REGULATORS, FAUCETS, ETC., UNLESS SPECIFICALLY STATED OTHERWISE.
2. - ALL HORIZONTAL DIMENSIONS SHOWN ON PLAN ARE FROM FINISHED FACE OF WALL TO CENTERLINE OF STUB-OUT OR FROM CENTERLINE OF STUB-OUT TO CENTERLINE OF STUB-OUT, UNLESS NOTED OTHERWISE ON PLAN OR DETAILS. (VERIFY ALL DIMENSIONS)
3. - SYMBOLS NOTED "+24", "+48", ETC., INDICATES TO STUB-OUT OF WALL AT HEIGHT INDICATED. HEIGHT IS GIVEN FROM FINISHED FLOOR (NOT FINISHED CURB) TO CENTERLINE OF STUB-OUT. SYMBOLS INDICATED "STUB-UP" AND "STUB-DOWN" ARE TO EXTEND ABOVE FINISHED FLOOR AND/OR BELOW FINISHED CEILING AT LOCATION SHOWN.
4. - PLUMBING STUBS AND CONNECTIONS SHOWN ON PLANS ARE FOR EQUIPMENT FURNISHED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR.
5. - FLOOR SINKS SHOWN ARE TO BE SET FLUSHED WITH TOP OF FINISHED FLOOR. FLOOR SINKS INDICATED HALF-IN AND HALF-OUT OF EQUIPMENT TO BE SET FLUSHED WITH TOP OF FINISHED FLOOR. FLOOR SINKS LOCATED COMPLETELY WITHIN EQUIPMENT AREA TO BE SET FLUSHED WITH TOP OF FINISHED FLOOR.
6. - PLUMBING CONTRACTOR TO PROVIDE AND INSTALL REMOVABLE COVERS OR GRATES FOR ALL FULLY OR PARTIALLY EXPOSED FLOOR SINKS. GRATES TO HAVE 1/2" MAX OPEN'GS WHERE DRAIN IS EXPOSED TO P.O.T OR TO PEDESTRIAN WAYS TIP.
7. - PLUMBING CONTRACTOR SHALL SEAL ALL PLUMBING PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS. WATERTIGHT AND VERMIN-PROOF.
8. - PLUMBING CONTRACTOR TO PROVIDE AND INSTALL SHUT-OFF VALVES ON ALL WATER AND GAS LINES, INCLUDING VALVES IN FIXTURES, LOCATED IN SUCH A WAY AS TO BE ACCESSIBLE WITHOUT USE OF TOOLS.
9. - PLUMBING CONTRACTOR TO PROVIDE AND INSTALL FOR ALL APPLICABLE EQUIPMENT, A TRAPPED FLOOR SINK WITH A LEGAL AIR GAP DRAIN LINE (INDIRECT WASTE) TO FLOOR SINK. INSULATE ALL DRAIN LINES FROM ICE BINS, ICE MACHINES, REFRIG. EQUIP., ETC..

PLUMBING LEGEND			
ABBREVIATION	DESCRIPTION	SYMBOL	DESCRIPTION
C.W.	COLD WATER		PLUMBING SCHEDULE REFERENCE, REFER TO FS2.0 FOR SCHEDULE
H.W.	HOT WATER		KEY/SHEET NOTE
DIR.	WASTE (DIRECT CONNECTION)		COLD WATER INLET
INDIR.	INDIRECT WASTE (AIR GAP)		HOT WATER INLET
LAV.	LAVATORY		SHUT OFF VALVE (S.O.V.)
W.C.	WATER CLOSET		COLD WATER SHUT OFF VALVE
F.S.	FLOOR SINK		GAS SHUT-OFF VALVE
P.C.	PLUMBING CONTRACTOR		FLOOR SINK
G.C.	GENERAL CONTRACTOR		FLOOR DRAIN
F.S.E.C.	KITCHEN EQUIPMENT CONTRACTOR		WASTE DOWN
S.O.V.	SHUT OFF VALVE		GAS INLET
GPH	GALLONS PER HOUR		WALK-IN DRAIN LINE
PSI	POUNDS PER SQUARE INCH		I.D. DRAIN LINE
(F)	DEGREES FAHRENHEIT		
CONN.	CONNECT		
LOC.	LOCATE		

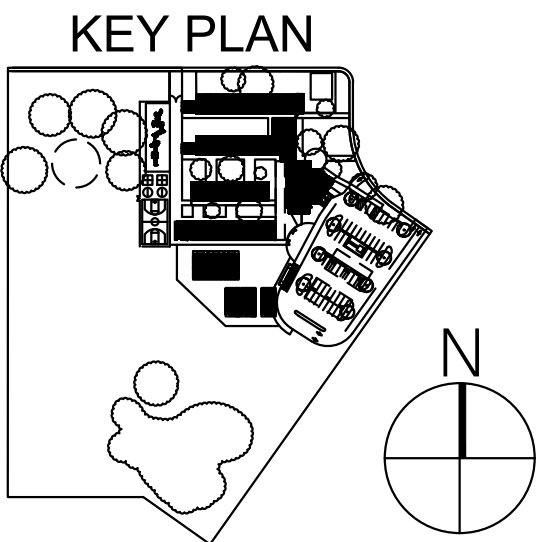
PLUMBING SHEET NOTES	
1	CONDENSATE DRAINS FROM COILS TO BE FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR F.S.E.C PROVIDE HEAT TRACE W/ INSULATION FROM COIL TO DRAIN (FREEZER) REFER E/FS.1
2	GAS SHUT-OFF VALVE FOR ANSUL SYSTEM WITH ACCESS DOOR.

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 <p style="font-size: 2em; margin-top: 10px;">architecture planning interiors</p> <hr style="border: 1px solid black; width: 80%; margin: 20px auto;"/> <p><b>BCA Architects</b>            980 9th St., Suite 2050            Sacramento, California 95814            [T] 916.254.5600  <a href="http://www.BCAarchitects.com">www.BCAarchitects.com</a></p>	
 <p>P.O. Box 163, GARDEN VALLEY CA 95633        OFFICE: 530.333.4606   <a href="mailto:art@amdfoodservicedesign.com">art@amdfoodservicedesign.com</a></p>	
<b>ARCHITECT</b>	<b>ENGINEER</b>

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<input type="radio"/>	DSA BACK CHECK	
<input type="radio"/>	BIDDING	
<input type="radio"/>	CONSTRUCTION	



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SCHOOL DISTRICT  
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WEST SACRAMENTO, CA 95691

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1504 FALLBROOK ST.  
WEST SACRAMENTO, CA 95691

# FOODSERVICE PLUMBING FLOOR PLAN

Date  
05/20/19

Drawing Number

Scale  
AS NOTED

Project Nu

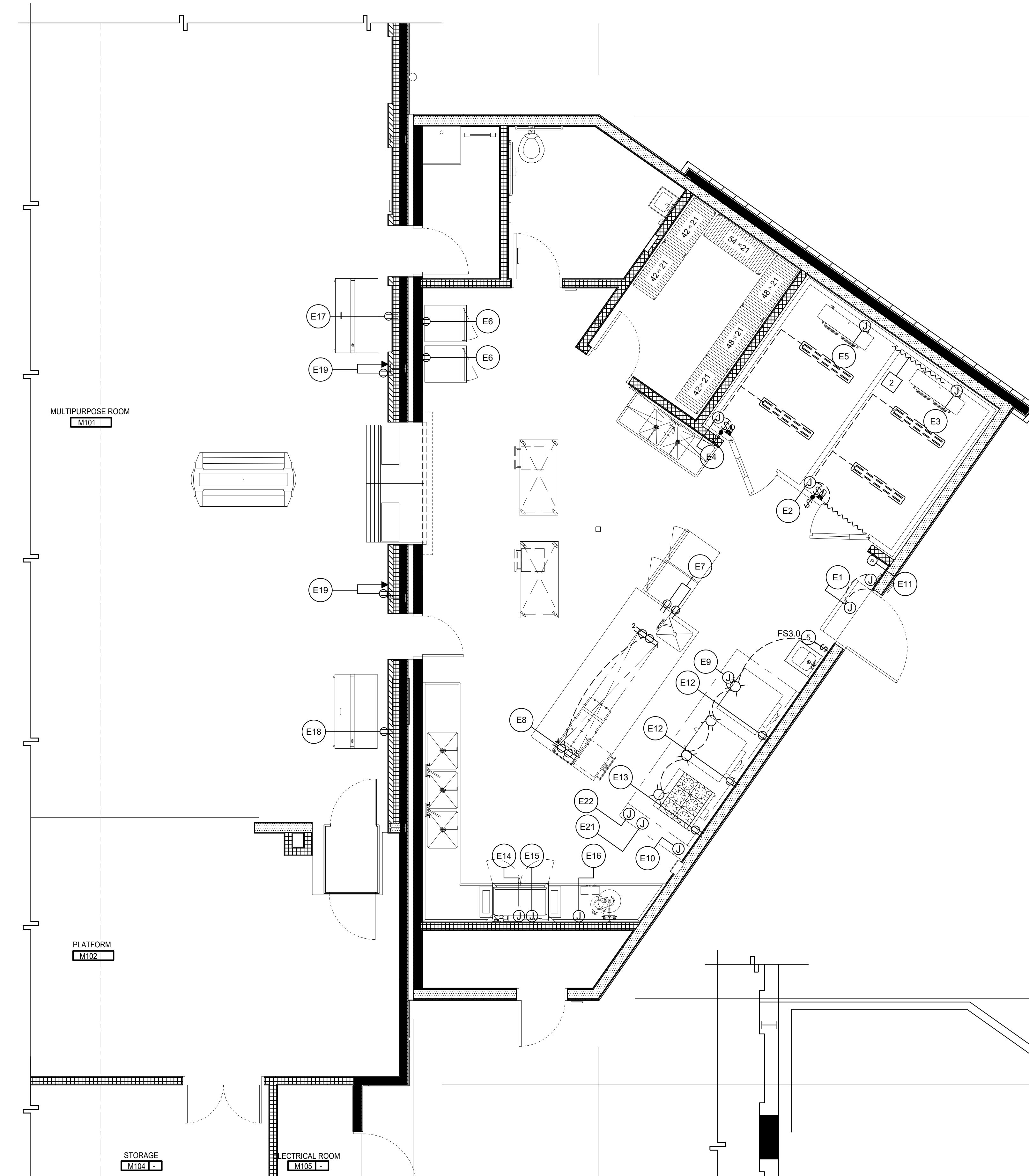
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Project  
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FOODSERVICE EQUIPMENT ELECTRICAL FLOOR PLAN

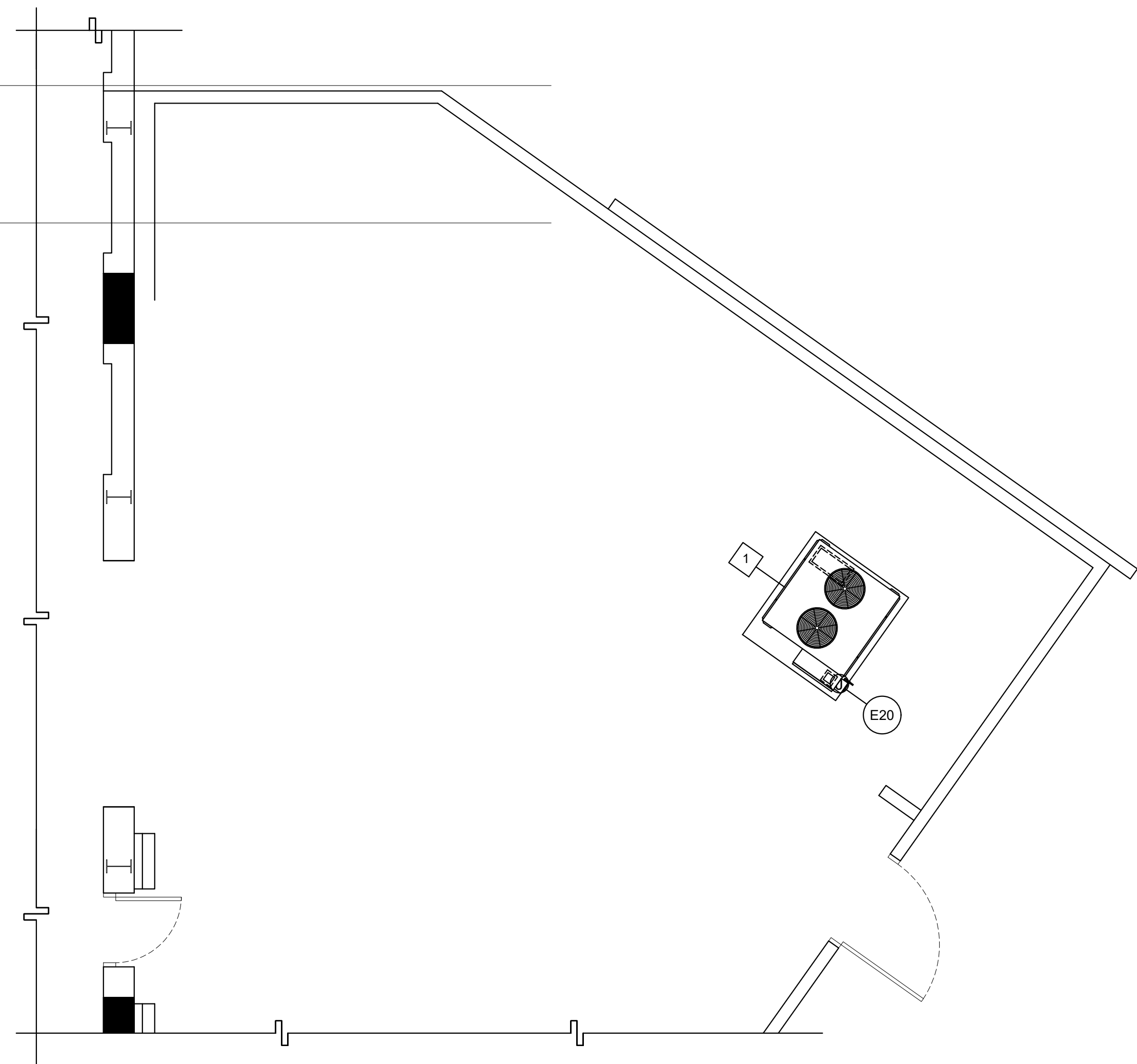
SCALE : 1/4" = 1'-0"

1  
FS3.0

# ELECTRICAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ROUGH-INS, FINAL CONNECTIONS AND INTER- CONNECTIONS TO THE FOOD SERVICE EQUIPMENT
2. CONNECTIONS SHOWN ARE FOR THE FOOD SERVICE EQUIPMENT ONLY. REFER TO ELECTRICAL DRAWINGS FOR CONVENIENCE OUTLETS AND ADDITIONAL REQUIREMENTS.
3. RECEPTACLES SHALL BE MOUNTED VERTICALLY.
4. RECEPTACLES, JUNCTION/HANDY BOXES INDICATED AT WALLS SHALL BE CONCEALED IN THE WALL AT THE HEIGHT INDICATED.
5. VERTICAL DIMENSIONS ARE GIVEN FROM FINISHED FLOOR TO CENTER LINE OF ROUGH-IN LOCATION.
6. UTILITIES WHEREVER POSSIBLE SHALL BE BROUGHT IN FROM ABOVE.
7. VERIFY THE UTILITY REQUIREMENTS OF OWNER FURNISHED AND/OR EXISTING EQUIPMENT.
8. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND/OR INSTALL ALL ELECTRICAL BOXES, EXTENSION RINGS, DISCONNECT SWITCHES AS SHOWN, CONVENIENCE OUTLETS WITH STAINLESS STEEL COATS, SWITCHES, DIMMER CONTROLS AND OTHER ACCESSORIES THAT ARE NOT AN INTEGRAL PART OF THE FOOD SERVICE EQUIPMENT ARE REQUIRED TO MAKE FINAL CONNECTIONS TO THE EQUIPMENT FOR A COMPLETE AND OPERABLE OPERATION MEETING ALL APPLICABLE CODES AND REGULATIONS.
9. JUNCTION/HANDY BOXES, CONVENIENCE OUTLETS AND SPECIAL PURPOSE OUTLETS SHOWN IN FABRICATED WORK TABLES AND COUNTERS SHALL BE FURNISHED BY FABRICATOR.
10. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING & RECEPTACLES.

ELECTRICAL SCHEDULE															NOTE(S)
ELEC. NO.	ITEM NO.	DESCRIPTION	QTY.	VOLT.	PH	DIRECT PLUG	NEMA	LOAD			OUTLET HEIGHT	REMARKS			
								WATT	AMPS DRAW	HP					
(E1)	1	AIR CURTAIN	1EA	120	1	X	-	-	-	9.0	1/2	+86"	PROVIDE J-BOX IN WALL INSTALL DOOR LIMIT SWITCH FOR INSTANT ON/OFF SWITCH BY F.S.E.C SEE DETAIL K/F58.0		
(E2)	2	WALK-IN FREEZER (BOX)	1EA	120	1	X	-	-	-	5.0	-	+88"	(2) 39W LED CLG. MTD. LIGHT FIXTURES (1) 11.5W LED LIGHT FIXTURE AT DOOR 250W DOOR HEATER, 20W P.R.P. 100W WINDOW HEATER EC. TO PROVIDE ALL INTERCONNECTIONS.	(6)	
(E3)	2	WALK-IN FREEZER (COIL)	1EA	208	1	X	-	-	-	12.8	-	+74"	CONNECT TO UNIT ELECTRICAL CONNECTION AT COIL INSIDE WALK-IN FREEZER. SEE DETAIL I/F7.0	(1)	
(E4)	3	WALK-IN REFRIGERATOR (BOX)	1EA	120	1	X	-	-	-	2.0	-	+88"	(2) 39W LED CLG. MTD. LIGHT FIXTURES (1) 11.5W LED LIGHT FIXTURE AT DOOR. CONTRACTOR TO PROVIDE ALL INTERCONNECTIONS.	(6)	
(E5)	3	WALK-IN REFRIGERATOR (COIL)	1EA	120	1	X	-	-	-	1.8	-	+74"	CONNECT TO UNIT ELECTRICAL CONNECTION AT COIL INSIDE WALK-IN REFRIGERATOR. SEE DETAIL I/F7.0		
(E6)	5	MOBILE WARMING & HOLDING CABINET	2EA	120	1	-	X	5-15P	-	12.0	-	+48"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET		
(E7)	5	MOBILE WARMING & HOLDING CABINET	2EA	120	1	-	X	5-15P	-	12.0	-	+48"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET		
(E8)	8	CHEFS COUNTER	4EA	120	1	X	-	-	-	15EA	-	+34"	PROVIDE DOUBLE FACED PEDISTAL DUPLEX RECEPTACLE MTD. ON COUNTER TOP (COMPONENT HARDWARE NO. R58-1020)(R71-0721) (TOTAL OF 4 DCO OUTLETS)		
(E9)	12	EXHAUST HOOD AND S/S WALL LINING (HOOD LIGHTS)	1EA	120	1	X	-	-	400	-	-	+104"	PROVIDE J-BOX ABOVE EXHAUST HOOD CONNECT TO J-BOX FOR FACTORY WIRED LIGHTS. PROVIDE CONNECTION BETWEEN HOOD SECTIONS	(2) (4) (5)	
(E10)	12.1	FIRE SYSTEM AT ANSUL CONTROL AUTOMAN PANEL	1EA	120	1	X	-	-	-	20	-	+104"	120V/1-20AMP @ ANSUL CONTROL	(4) (3)	
(E11)	12.1	FIRE SYSTEM (REMOTE PULL STATION)	1EA	-	-	X	-	-	-	-	-	+48"	EMPTY FLUSH MTD. OCTAGONAL BOX (REMOTE PULL) SEE DETAIL 2&3/F5.3		
(E12)	13	DOUBLE STACK CONVECTION OVEN	4EA	120	1	-	X	5-15P	-	6.0	-	+20"	PROVIDE DUPLEX RECEPTACLE IN WALL FLUSH FACE WITH S/S WALL LINING UNIT PROVIDED WITH CORD AND PLUG SET	(4)	
(E13)	14	OPEN BURNER RANGE WITH OVEN	1EA	120	1	-	X	5-15P	-	0.1	-	+20"	PROVIDE DUPLEX RECEPTACLE IN WALL FLUSH FACE WITH S/S WALL LINING UNIT PROVIDED WITH CORD AND PLUG SET	(4)	
(E14)	19	HIGH TEMP WAREWASHER (TANK HEAT/MOTORS)	1EA	208	3	X	-	-	-	55.0	-	+63"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION		
(E15)	19	HIGH TEMP WAREWASHER (30 KW BOOSTER HEATER)	1EA	208	3	X	-	-	-	83.9	-	63"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION		
(E16)	21	DISPOSER	1EA	208	3	X	-	-	-	6.6	-	+24"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION		
(E17)	23	MILK COOLER	2EA	120	1	-	X	5-15P	-	8.2	-	+18"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET		
(E18)	24	MILK COOLER	2EA	120	1	-	X	5-15P	-	8.2	-	+18"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET		
(E19)		CASHER STATION (DATA) AND (POWER) VERIFY W/ DISTRICT FURNISHED POS UNIT	2EA	120	1	-	X	-	-	20	-	+4"	PROVIDE (2) DATA PLUGS AND (2) ELECTRICAL OUTLETS (VERIFY W/ DISTRICT POS REQ.)		
(E20)	27	REMOTE REFRIGERATION UNIT (ROOF MOUNTED)	1EA	208	3	X	-	-	-	23.9	-	+18"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION REFER FS7.0 UNIT TO BE LOCATED ON ROOF.		
(E21)	12	EXHAUST HOOD DVC-1111 EXHAUST FAN POWER	1EA	208	3	X	-	-	-	10.2	-	+88"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION SEE DETAIL 1/F5.2		
(E22)	12	EXHAUST HOOD DVC-1111 SUPPLY FAN POWER	1EA	208	3	X	-	-	-	6.1	-	+88"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION SEE DETAIL 1/F5.2		
WALK-IN REFRIGERATION ELECTRICAL (MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE)												ELECTRICAL KEYNOTES:			
1. - THE ELECTRICAL CONTRACTOR SHALL INSTALL AND INTER WIRE LIGHT SWITCHES AND FIXTURES REQUIRED FOR THE FOOD SERVICE EQUIPMENT AND MAKE FINAL CONNECTIONS.												(1) DRAIN LINE HEATER CONNECTED TO COIL. F.S.E.C TO PROVIDE AND CONNECT TO COIL			
2. - THE FOOD SERVICE EQUIPMENT CONTRACTOR SHALL INSTALL THE PRESSURE RELIEF PORT, DOOR HEATERS, DRAIN LINE HEATERS AND TEMPERATURE ALARM SYSTEM. INTER WIRING AND FINAL CONNECTIONS BY THE ELECTRICAL CONTRACTOR.												(2) 120V/1 PHASE FOR LIGHTS TO ONE PRE-WIRED CONN. POINT ON HOOD FOR LIGHTS PRE-WIRED BY FACTORY. WALL SWITCH AND WIRING TO HOOD BY E.C.			
3. - THE ELECTRICAL CONTRACTOR SHALL INTER WIRE THE TIME CLOCK ON THE CONDENSING UNIT TO THE DEFROST RELAY ON THE UNIT EVAPORATOR LOCATED IN THE FREEZER COMPARTMENT.												(3) ELECTRICAL CONTRACTOR TO PROVIDE EMPTY FLUSH MTD. OCTAGONAL BOX @ +48" AFF. W/ EMPTY CONDUIT TO +2" ABOVE CEILING.			
4. - THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM WITH ALL CONDUIT IN SO FAR AS POSSIBLE MOUNTED ON THE EXTERIOR CEILING OF THE WALK-IN ASSEMBLY. PENETRATIONS AND ESCUTCHEON PLATES SHALL BE FURNISHED AND INSTALLED BY THE FOOD SERVICE CONTRACTOR. FOOD SERVICE EQUIPMENT CONTRACTOR IS RESPONSIBLE FOR SEALING THE INSIDE OF CONDUITS WHICH PENETRATE THE CEILING OR WALL.												(4) ELECTRICAL CONTRACTOR TO PROVIDE INTERLOCK WIRING FROM FIRE PROTECTION SYSTEMS TO ELEC. SHUNT TRIP BREAKERS.			
												(5) E.C. TO PROVIDE WALL SWITCH AND POWER TO EXHAUST FAN. M.C. TO PROVIDE INTERCONNECTION TO ALL FANS FOR HOODS.			
												(6) INTERCONNECT TEMP ALARM WITH MECHANICAL ALARM SYSTEM REFER TO MECHANICAL (VERIFY WITH DISTRICT)			



FOODSERVICE ELECTRICAL PARTIAL ROOF PLAN

SCALE: 1/4" = 1'-0"

2  
FS3.0

SYMBOL		DESCRIPTION	
AFF	ABOVE FINISHED FLOOR	①	JUNCTION BOX
CLG.	CEILING	▲	DATA OUTLET
CONN.	CONNECT	Ⓟ	EMPTY OCTAGONAL BOX W/ CONDUIT TO *2" ABOVE CEILING BY E.C
E.C.	ELECTRICAL CONTRACTOR	⊕	VAPOR-PROOF LIGHT FIXTURE AT EXHAUST HOOD (PROVIDED BY F.S.E.C. INSTALLED BY E.C.)
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR	Ⓜ	STUBBED-UP JUNCTION BOX
G.C.	GENERAL CONTRACTOR	Ⓢ	STUBBED-UP CONVENIENCE OUTLET
P.R.P.	PRESSURE RELIEF PORT	Ⓛ	STUBBED-UP SIMPLEX OUTLET
S.F.	STAINLESS STEEL FABRICATOR	▲	STUBBED-UP DATA OUTLET
M.C.	MECHANICAL CONTRACTOR	\$	WALL MOUNTED SWITCH BY E.C
LOC.	LOCATE	[ - - - ]	VAPOR-PROOF FLUORESCENT FIXTURE PROVIDED BY F.S.E.C. INSTALLED BY E.C.)
ⓔ1	ELECTRICAL SCHEDULE REFERENCE. REFER TO FS3.0 FOR SCHEDULE	Ⓜ	VAPOR-PROOF LIGHT FIXTURE AT WALK-IN PROVIDED BY F.S.E.C. INSTALLED BY E.C.)
① 1	SHEET AND/OR KEY NOTE		
Ⓢ	DUPLEX CONVENIENCE OUTLET 115V/1Ø UNLESS OTHERWISE NOTED		
Ⓛ	SIMPLEX OUTLET SEE SCHEDULE FOR VOLTAGE		
⊕	CEILING MOUNTED, VAPOR-PROOF LIGHT FIXTURE W/ JUNCTION BOX, 115V/1Ø UNLESS OTHERWISE NOTED (WALK-IN REFRIGERATOR)		

### ELECTRICAL SHEET NOTES

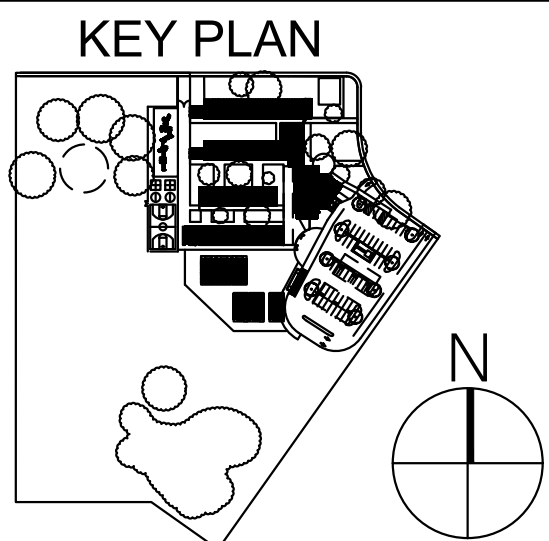
- REMOTE REFRIGERATION RACK SYSTEM ITEM NO. 27 REFER TO FS7.0 FOR DETAILS LOCATED ON BUILDING ROOF
- ELECTRIC HEAT TRACE SPIRALED TAPED AND INSULATED CONNECTED AT COIL BY F.S.E.C. REFER D/F57.1

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<div style="text-align: center;">  <p>architecture planning interiors</p> <hr/> <p>BCA Architects 980 9th St., Suite 2050 Sacramento, California 95814 [T] 916.254.5600 www.BCAarchitects.com</p> <div style="border: 1px solid black; padding: 10px; margin: 20px auto; width: 150px; text-align: center;">  <p><b>AMD</b> FOODSERVICE DESIGN</p> <p><small>P.O. BOX 163 GARDEN VALLEY CA 95632 OFFICE: (916) 336-8500   info@amdfoodservicecuedesign.com</small></p> </div> </div>	
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<input type="radio"/> CONSTRUCTION	



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## FOODSERVICE ELECTRICAL FLOOR PLAN

Date 05/20/19	Drawing Number
Scale AS NOTED	FS3.0
Project Number 19003.1	



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**AMD**  
FOODSERVICE DESIGN

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 OFFICE: 530-332-4000 | artdesign@foodservicedesign.com

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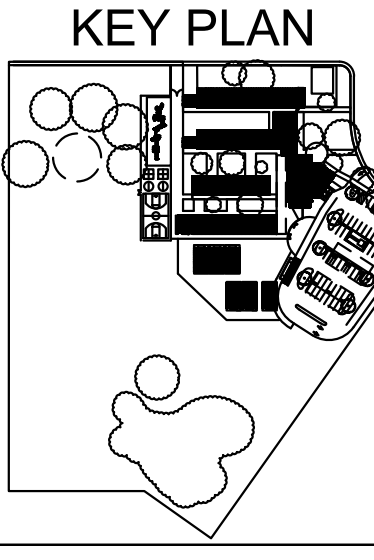
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DATE  
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### KEY PLAN



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**FOODSERVICE  
MECHANICAL FLOOR  
PLAN**

Date 05/20/19  Scale AS NOTED  Project Number 19003.1	Drawing Number  <div style="font-size: 36px; font-weight: bold;">FS4.0</div>
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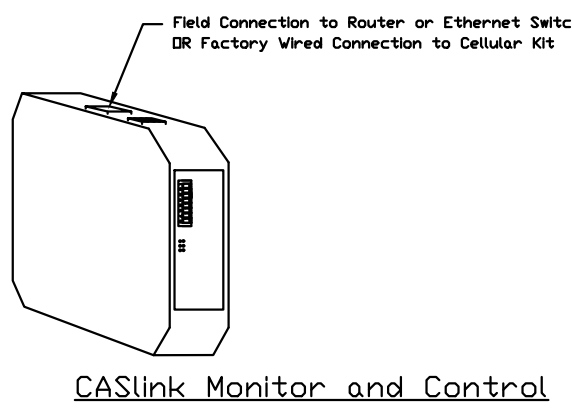
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**SCALE : NONE**

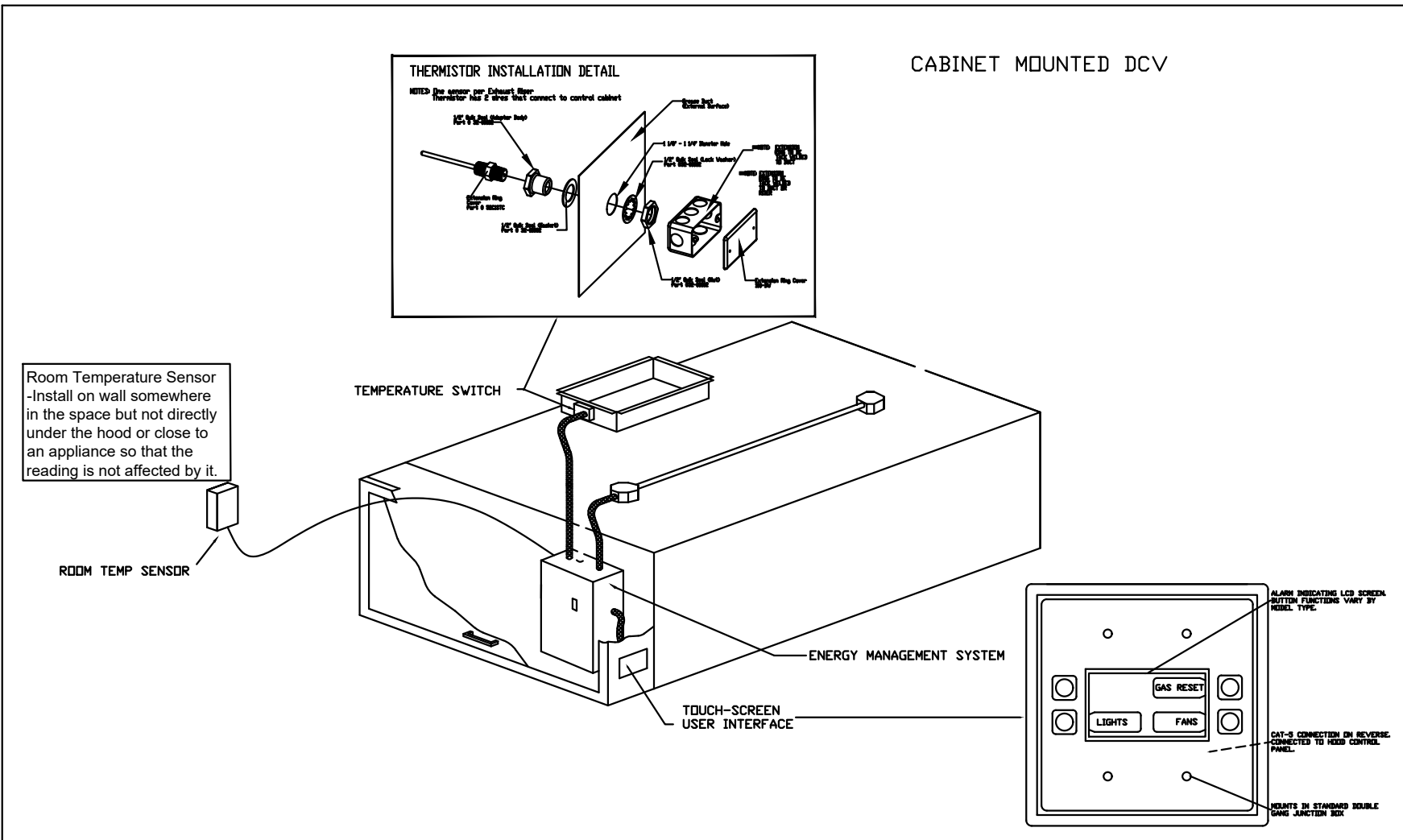
1. PROVIDE 22 GA. S/S WRAPPER AT ALL OPEN SIDES
2. S/S WRAPPER TO BE INSTALLED FROM TOP OF VAPOR HOOD TO FINISHED CEILING AT ALL OPEN SIDES

3. SEAL ALL GAP WITH SILVER OR GRAY SEALANT



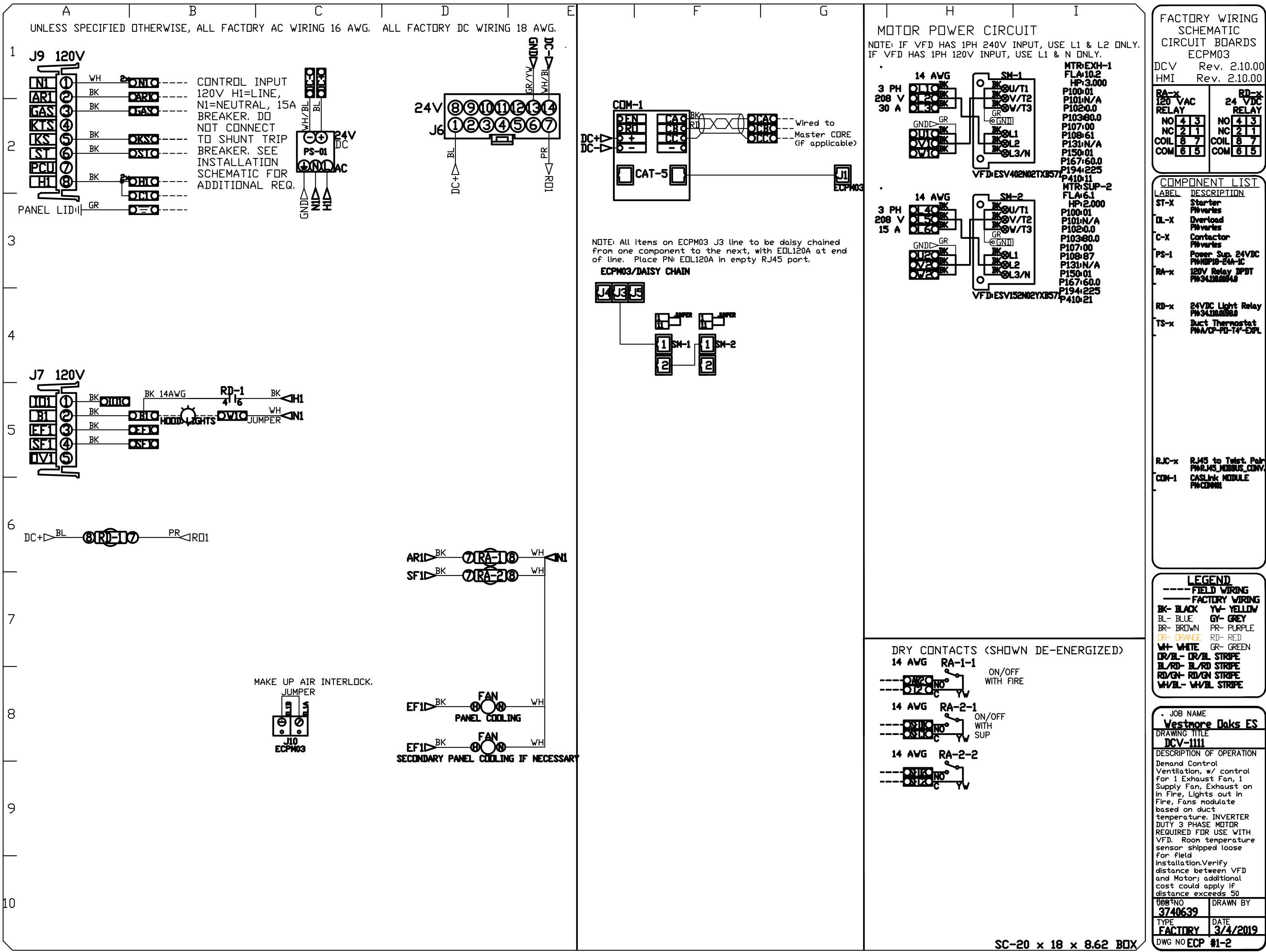
- Hood control panel to support communications to cloud-based Building Management System.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood control panel to allow remote changes to system setting such as VFD Frequencies, ECM speeds, temperature set points, fan and wash schedules, etc.

DCV Packages	Function	DC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Room Temperature(s)	MONITOR	Room Temperature(s)	MONITOR
Max Discharge Temperature	MONITOR	Max Discharge Temperature	MONITOR
Minimum RTU Discharge Temperature	MONITOR	Minimum RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Control Fan	MONITOR
Fan Percentage	MONITOR	Fan Faults	MONITOR
Fan Fault	MONITOR	Fan Faults	MONITOR
VFD Faults	MONITOR	PCU Faults	MONITOR
Control Fan Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Faults	MONITOR	Filter Pressures	MONITOR
Fan Discharge	MONITOR	CO <sub>2</sub> Fan Faults	MONITOR
PCU Faults	MONITOR	Building Pressures	MONITOR & CONTROL
PCU Filter Clog Percentages	MONITOR	Fans Auto/Manual	MONITOR & CONTROL
Filter Conditions	MONITOR	Lighting Auto/Manual	MONITOR & CONTROL
CO <sub>2</sub> Fan Faults	MONITOR	Voice Button	MONITOR & CONTROL
Building Pressures	MONITOR		
Press Time Button	MONITOR & CONTROL		
Fan Faults	MONITOR & CONTROL		
Lighting Auto/Manual	MONITOR & CONTROL		
Voice Button	MONITOR & CONTROL		



**SCALE : NONE**

ELECTRICAL PACKAGE - Job#3740639											
NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Ø	H.P.	VOLTS	FLA
1		DCV-1111	Utility Cabinet Right	04 - Utility Cabinet Right	1 Light	Smart Controls DCV	Exhaust	3	3,000	208	10.2
				Hood # 1	1 Fan		Supply	3	2,000	208	6.1



**JOB NO. 3740639**

**DCV-III**

**JOB NAME: Vestshore Oaks ES**

**DATE: 3/4/2019**

**DCP #1-1**

**DESCRIPTION OF OPERATION:**  
 Revised Control Ventilation w/ control Fan & Exhaust Fan. Exhaust on in Fire. Lights out in Fire. Fans operate based on duct temperature. INVERTED DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation. Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.

**BREAKER PANEL TO PRIMARY CONTROL PANEL**  
 Responsibility: Electrician  
 BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED

**PRIMARY CONTROL PANEL**

BREAKER 1PH 120 V 15 A

CONTROL POWER, DO NOT MISTAKE TO GFCI OR SHUNT TRIP

1ST HOOD LIGHT BREAKER SHARED W/ CONTROL POWER SWITCH #1

BREAKER 3PH 208 V 15 A

EXH-1 SW-1

WIRE TO VFD QUICK CONNECTOR

BREAKER 3PH 208 V 15 A

SW-2

WIRE TO VFD QUICK CONNECTOR

**CONTROL PANEL TO FANS**  
 Responsibility: Electrician

**PRIMARY PANEL**

Load Wiring SW-1 VIRE TO VFD QUICK CONNECTOR

Load Wiring SW-2 VIRE TO VFD QUICK CONNECTOR

IF VFD MOUNTED IN 2ND PANEL, WIRE OF SIGNAL FROM PANEL WITH EXHAUST

MAKE UP AIR DAMPER PROVIDING INTERLOCK

REMOVE JUMPER

LDV VOLTAGE CONNECTION FOR DAMPER INTERLOCK. WIRE TO SUPPLY ON THE SAME ZONE IN SERIES. SHUNT WIRE CONTINUITY WHEN DAMPER IS PROVIDED OPEN. NOT REQUIRED FOR ALL UNITS. SEE MAKE-UP AIR SCHEMATIC.

**FANS**

FAN 01 EXH-1

FAN 02 SUP-2

MIA ZONE 1

**CONTROL PANEL TO ACCESSORY ITEMS**  
 Responsibility: Electrician

**CONTROL PANEL**

TO FIRE SYSTEM MICROSWITCH

IF MORE THAN ONE FIRE SYSTEM, WIRE IN SERIES AS SHOWN

TO SWITCHES

TO HOOD LIGHTS 1400 V MAX

TO WORLD WIDE WEB

TO KITCHEN TEMP SENSOR

TO DUCT SENSOR

TO SHUNT COIL

TO EXTERNAL SHUNT TRIP

TO SYSTEM DRY CONTACT

**COMPONENT**

MICROSWITCH 1

AND OFF

NS-1 AND OFF

NS-2 AND OFF

ALL SWITCHES FACTORY WIRED CAT-5 CONNECTION

BLACK WHITE GREEN

WIRE TO J-BOX ON TOP OF HOOD

CAT-5 ETHERNET CONNECTION

WIRE DIRECTLY TO COMMUNICATION MODULE. NO REQUIREMENTS 24 HOUR PORT 1444 & 1445 OPEN FOR OUTBOUND TRAFFIC ONLY.

WIRE TO CONTROL BUREAU INSTALL SENSOR IN ROOM AWAY FROM HEAT SOURCES. DO NOT INSTALL SENSOR ON THE CEILING GRID. SEE MANUAL.

FACTORY WIRED TEMPERATURE SENSOR MOUNTED IN EXHAUST DUCT

ROOM TEMP

HOOD 1

THE FOLLOWING CONNECTIONS MAY OR MAY NOT BE REQUIRED BASED ON JOBSITE SPECIFICATIONS

NOT TO SHUNT COIL

NEUTRAL FROM SHUNT COIL

ST TERMINAL IS ENERGIZED IN FIRE CONDITION

COMMON

NORMALLY OPEN

SPARE CONTACTS WILL MAKE OR BREAK WHEN SYSTEM IS ARMED. ARE USED TO DISABLE EQUIPMENT. PROVIDE SIGNALS ONLY TO BUILDING FIRE ALARM WHICH MUST BE WIRE DIRECTLY TO THE BUILDING FIRE ALARM SWITCH LOCATED IN ANGLE AUTOMAT

CONTROL PANEL DRY CONTACT ON/OFF WITH SUPPLY FAN GROUP 1

COMMON

NORMALLY OPEN

SPARE CONTACTS WILL MAKE COMMON TO NORMALLY OPEN WHEN SUPPLY FAN IS ON

DCV SPEED -10V OUTPUT IN PCB

WIRE TO EXHAUST TERMINALS. VERIFY EXHAUST OUTPUT. SEE EXHAUST OWNER'S MANUAL.

VFD ANALOG -10V OUTPUT IN VFD

WIRE TO VFD TERMINAL STRIP. ADDITIONAL WIRE REQUIRED. SEE VFD OWNER'S MANUAL.

CONTROL PANEL TO EXTERNAL SWITCH

SIGNAL SWITCH THROUGH INS WILL ACTIVATE ZONE1 FANS AND LIGHTS

INS SWITCH

architecture  
p l a n n i n g  
i n t e r i o r s

BCA Architects  
980 9th St., Suite 2050  
Sacramento, California 95814  
[ T ] 916.254.5600  
[www.BCAarchitects.com](http://www.BCAarchitects.com)



ARCHITECT	ENGINEER
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	DATE
<input checked="" type="radio"/> DSA PLAN CHECK	5/20/2019
<input type="radio"/> DSA BACK CHECK	
<input type="radio"/> BIDDING	
<input type="radio"/> CONSTRUCTION	

WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WESTACRE ROAD  
WEST SACRAMENTO, CA 95691

## DSA SUBMITTAL

**WESTMORE OAKS  
ELEMENTARY  
SCHOOL**  
1504 FALLBROOK ST.  
WEST SACRAMENTO, CA 95691

# FOODSERVICE EQUIPMENT EXHAUST HOOD DETAILS

Date	Drawing Number
05/20/19	
Scale	
AS NOTED	
Project Number	
19003.1	

## FS5.2









DSA STAMP

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planning  
interiors

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AMD  
FOODSERVICE DESIGN  
P.O. BOX 163 GARDEN VALLEY CA 95633  
OFFICE: 330.333.4608 | ari@amrfoodservicedesign.com

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NO.

REMARKS

DATE

DATE  
5/20/2019

☒ DSA PLAN CHECK

☐ DSA BACK CHECK

☐ BIDDING

☐ CONSTRUCTION

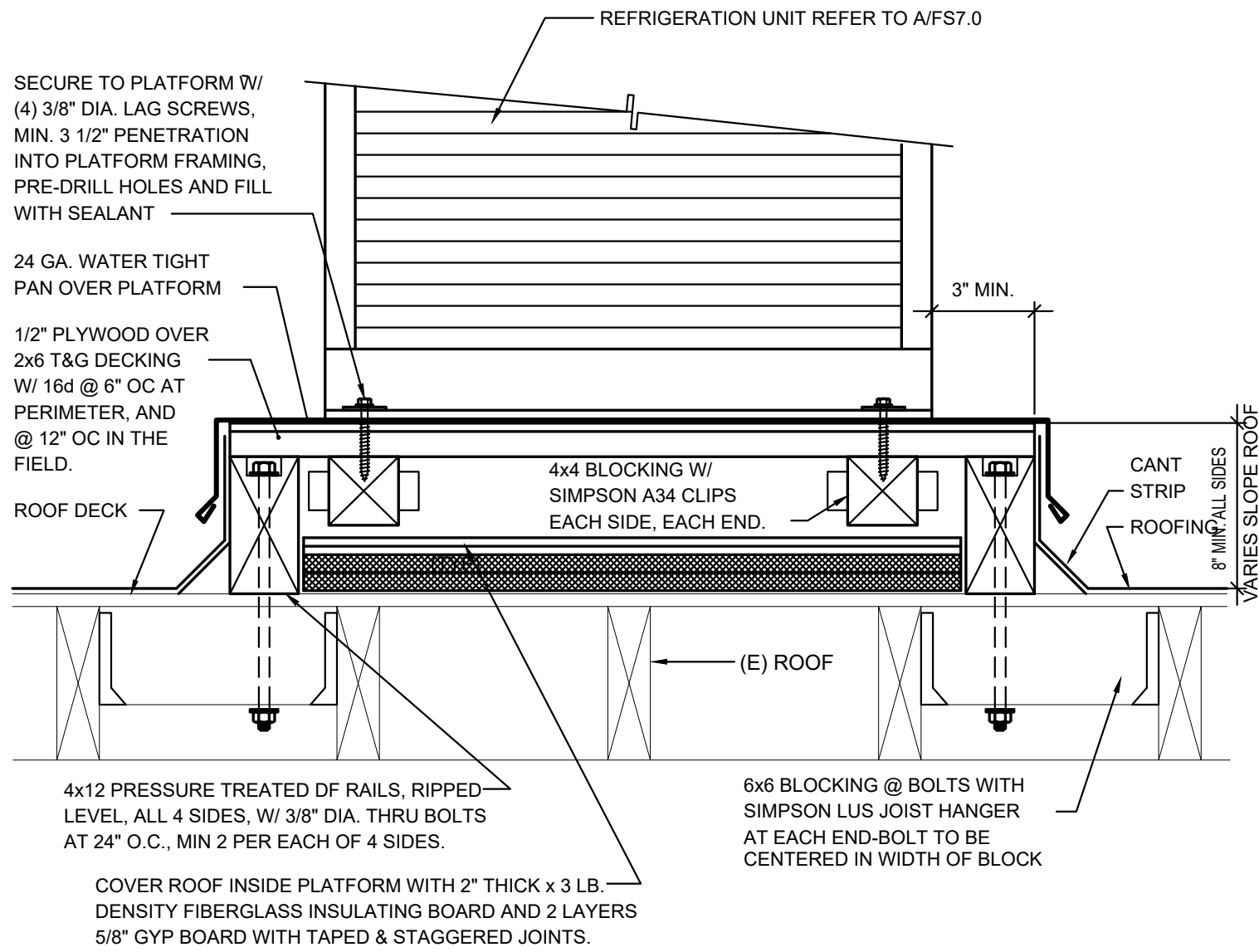
KEY PLAN



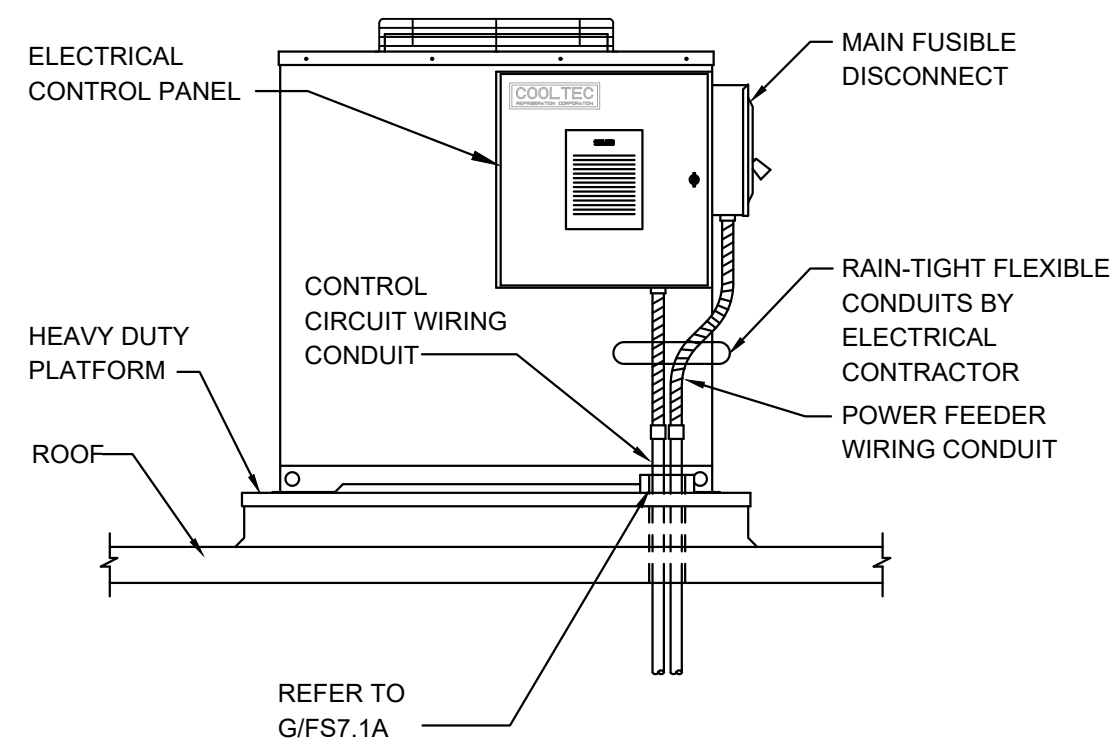
Technical drawing of the DIFST 7.0 unit, showing dimensions and labels:

- AIR IN**: Indicated by an arrow pointing to the top left corner.
- Dimensions**:
  - Top width: 48"
  - Top depth: 48"
  - Left side height: 10"
  - Right side height: 50"
  - Bottom width: 48"
  - Bottom depth: 60"
  - Bottom left corner: 90°
  - Bottom right corner: 60°
- Labels**:
  - 1**: Points to the top left corner.
  - 2**: Points to the top right corner.
  - ANCHORAGE, SEE DETAIL DIFST 7.0**: Points to the bottom right corner.
  - PITCH POCKET, SEE DETAIL G/FS7.0**: Points to the bottom right corner.

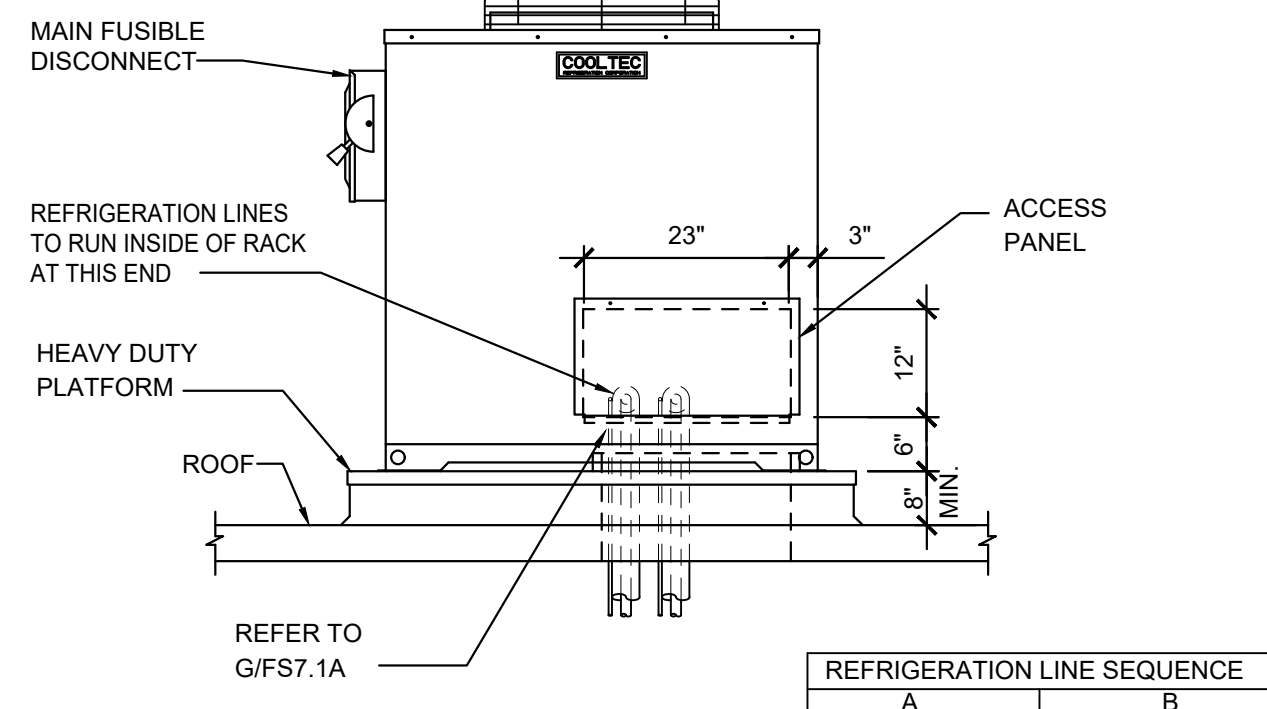
ESTIMATED WEIGHT (LBS.) 900#



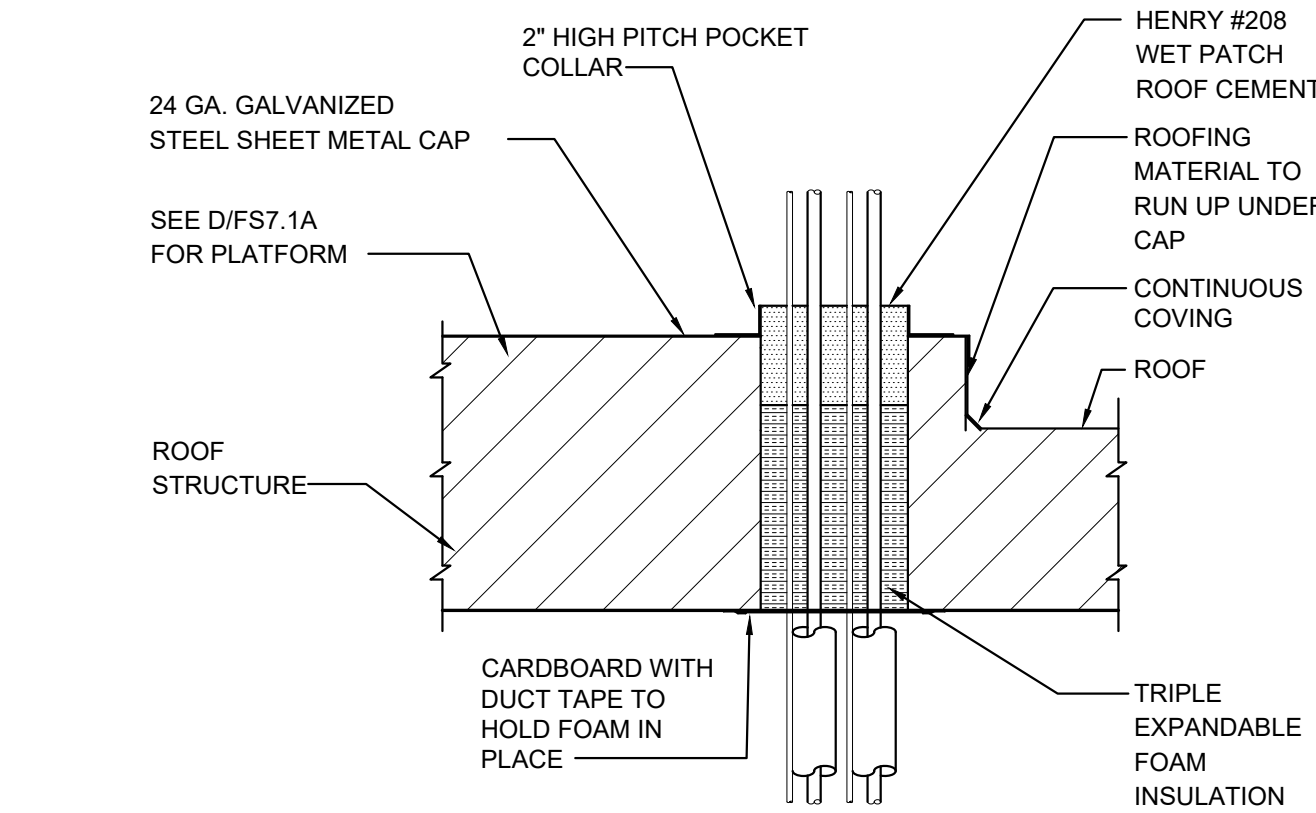
 PLATFORM DETAIL



## ELECTRICAL CONTROL PANEL

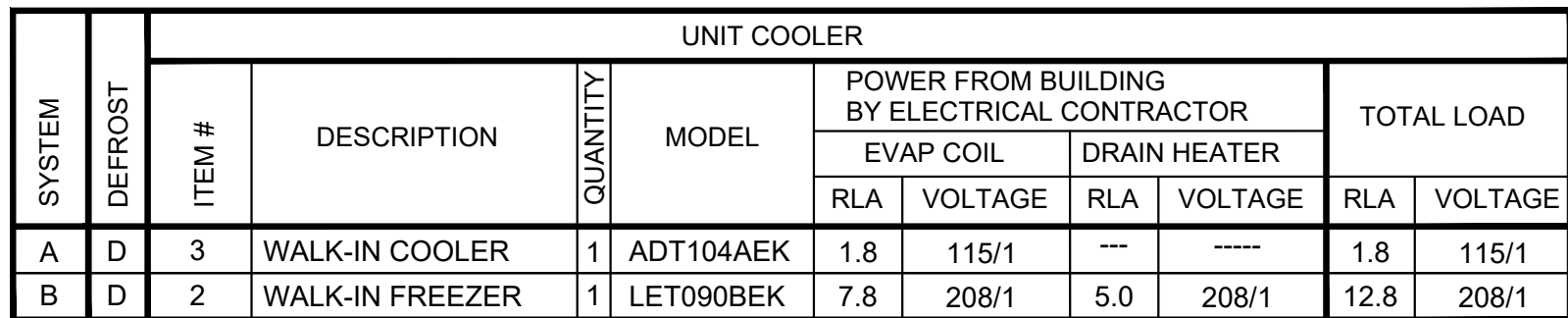


E  
FS7

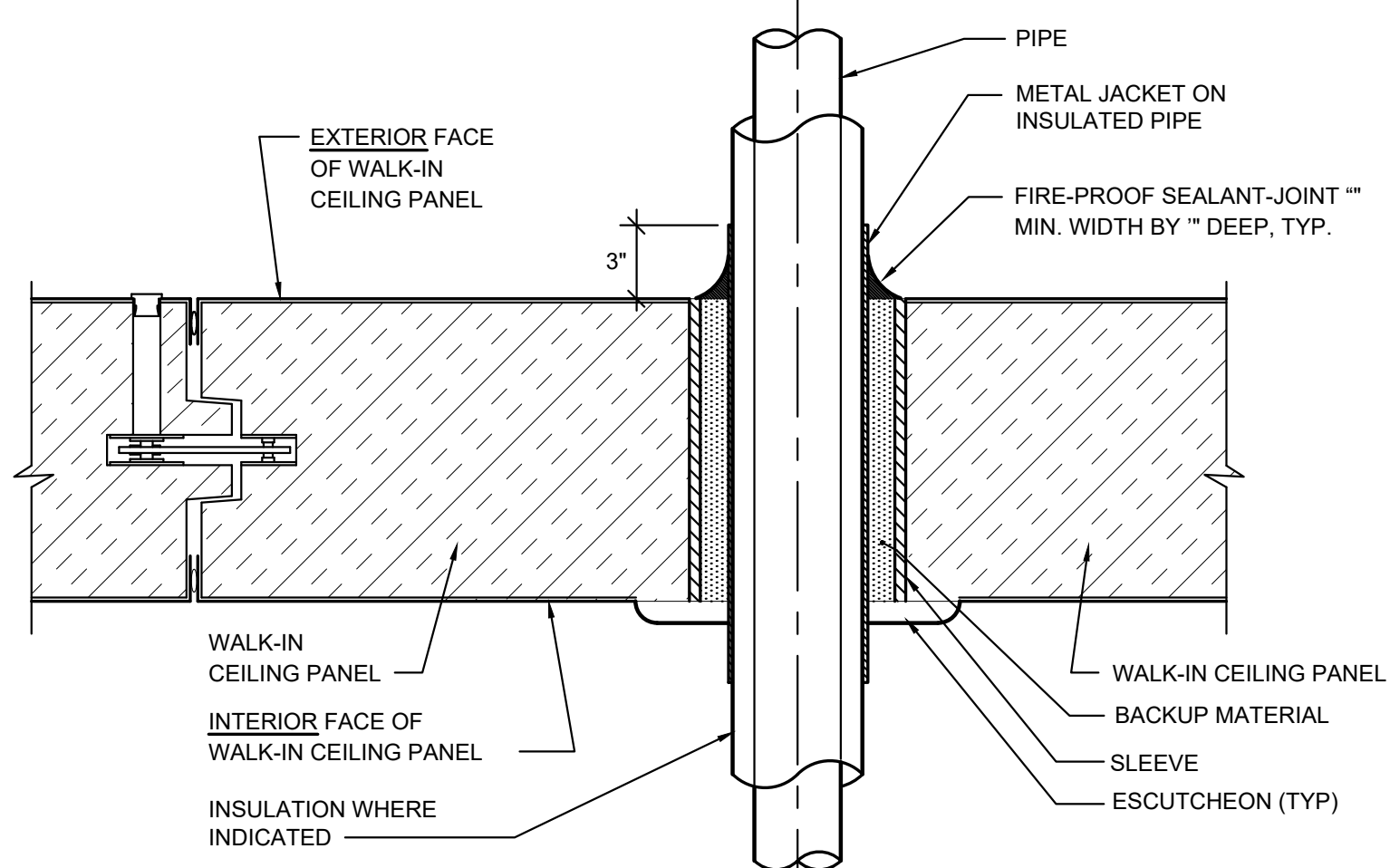


INSTRUCTIONS FOR REFRIGERATION CONTRACTOR

- A. TAPE CARDBOARD AT THE BOTTOM OF EACH PITCH POCKET OPENING AS SHOWN.
- B. AT THE TOP OF THE PITCH POCKET OPENING, FILL IN WITH TRIPLE EXPANDABLE FOAM INSULATION (DOW CHEMICAL "GREAT STUFF" INSULATING FOAM), AND LET FOAM CURE FOR ONE HOUR.
- C. APPLY HENRY #208 WET PATCH ROOF CEMENT IN BETWEEN REFRIGERATION PIPING, ELECTRICAL LINES, AND FOAM. LET CURE FOR FOUR HOURS. THIS SHOULD SEAL ALL PIPING AND LINES IN THE PITCH POCKET, TO PREVENT RAIN WATER FROM PENETRATING THROUGH.



NOTE: PROVIDE SEPARATE POWER SOURCE FOR EACH EVAPORATOR.  
POWER FROM BUILDING.



ITEM NO. 27 REMOTE REFRIGERATION PACKAGE  
THE REFRIGERATION PACKAGE SHALL BE PRE-ENGINEERED AND FACTORY ASSEMBLED UNIT, TRADE NAME "REFRIG-O-PAK", AS MANUFACTURED BY COOLTEC REFRIGERATION CORP., 1250 E. FRANKLIN AVE., POMONA, CA 91766. PHONE: (909) 865-2229, FAX: (909) 868-0777.

ITEM NO. 27 REMOTE REFRIGERATION PACKAGE  
THE REFRIGERATION PACKAGE SHALL BE PRE-ENGINEERED AND FACTORY ASSEMBLED UNIT, TRADE NAME "REFRIG-O-PAK", AS MANUFACTURED BY COOLTEC REFRIGERATION CORP., 1250 E. FRANKLIN AVE., POMONA, CA 91766. PHONE: (909) 865-2229, FAX: (909) 868-0777.

- EMAIL ADDRESS: [sales@condensergation.com](mailto:sales@condensergation.com)
- REFRIGERATION SYSTEM:** REFRIGERATION SYSTEM, (1) COOLANT U/L APPROVED "REFRIGERATION-GP" AIR COOLED REMOTE REFRIGERATION PACKAGE, MODEL CSD-30, WITH SHOWN PANEL, 208 VOLTS, 3 PHASE. REFRIGERATION SYSTEM SHALL BE HOUSED IN A WEAATHER PROTECTED ENCLOSURE. CONDENSER SHALL BE AIR COOLED. CONDENSER SHALL BE PROVIDED WITH 1" MIN. CLEARANCE FROM ALL SURFACES. CONDENSER SHALL BE PRE-ASSEMBLED, WELDED, CLEANED, AND PRIMED AND POWDER COATED EPOXY ENAMEL AND BAKED. CONDENSER FAN MOTORS SHALL BE MOUNTED ON THE TOP OF THE ENCLOSURE FOR BETTER HEAT DISSIPATION.
- REFRIGERATION CONTROLS:**
- A. AIR-COOLED CONDENSING UNITS SHALL BE HERMATIZING/GLACIER SCROLL TYPE (COPIELAND), EACH UNIT SHALL BE EQUIPPED WITH 1/2" MIN. BORE, 1/4" MIN. WALL THICKNESS, 1/2" MIN. HEAD PRESSURE, 1/2" MIN. HEAD PRESSURE, 1/2" MIN. HEAD PRESSURE, 1/2" MIN. HEAD PRESSURE.
  - B. ALL COMPRESSOR UNITS SHALL BE NEW FACTORY ASSEMBLIES TO OPERATE WITH THE REFRIGERANT SPECIFIED IN THE ENGINEERING SPECIFICATIONS. CONDENSING UNITS SHALL BE PROVIDED WITH 1/2" MIN. BORE, 1/4" MIN. WALL THICKNESS, 1/2" MIN. HEAD PRESSURE, 1/2" MIN. HEAD PRESSURE.
  - C. THE CONDENSER SHALL BE ELECTRICALLY REMOVABLE, WITH RPLED TUBE SLOTTED AND FINNED, AND SHALL BE DESIGNED FOR 20-TD.
  - D. CONDENSING UNITS SHALL BE SECTION-FIN COATED AGAINST SALT CONTAMINATION AND CORROSION.
- 2. PRE-PIPING**
- A. ALL REFRIGERANT LINES SHALL BE EXTENDED TO ONE SIDE OF THE PACKAGE IN A NEAT AND ORDERLY MANNER. SUCCTION LINES MUST BE PROVIDED WITH INSULATION WITHIN 18" OF THE LOW TEM. 3/4" THICK INSULATION.
  - B. ALL TURNING SHALL BE SECURELY SUPPORTED AND ANCHORED WITH CLAMPS.
  - C. ALL SUCCTION AND DISCHARGE LINES SHALL BE USED FOR ALL REFRIGERANT. SOLDER IS NOT ACCEPTABLE.
  - D. ALL PIPING TO BE PREPARED TESTED WITH NITROGEN AT 300 PSI.
  - E. AFTER THE CONDENSING UNIT AND COIL HAVE BEEN CONNECTED, THE BALANCE OF THE SYSTEM SHALL BE LEAKED TESTED WITH ALL VALVES OPEN.
- 3. CONTROL PANEL**
- A. THE PACKAGE SHALL HAVE A FACTORY MOUNTED AND PRE-WIRED CONTROL PANEL, COMPLETE WITH MAIN FUSED DISCONNECT, COMPRESSOR CIRCUIT BREAKERS, FUSES, CONTACTORS AND THE TIME CLOCKS W/RED FOR SINGLE POINT CONNECTION.
  - B. THE REFRIGERANT CONTROLS SHALL BE INSTALLED MAIN FUSED DISCONNECT AND PROVIDE THE HARDWARE FOR THE REFRIGERANT CONTROL AND DEFROST HEATER BETWEEN AND THE DEFROST CLOCK AND THE REFRIGERATION FIXTURES, ALL IN ACCORDANCE WITH THE WIRING DIAGRAM AND PER LOCAL CODES.
- 4. SAFETY CAUTION**
- A. EACH SYSTEM AND EVAPORATOR IS SHIPPED UNDER NITROGEN PRESSURE.
  - B. USE CAUTION AND EXERCISE SAFETY AT ALL TIMES WHEN PREPARING FOR HOOK-UP.
- 5. EVAPORATIVE COIL**
- A. EVAPORATIVE COIL SHALL BE DIRECT EXPOSURE TYPE, FABRICATED OF COPPER TUBES WITH ALUMINUM FINS, ALL EVAPORATIVE COILS SHALL BE PROVIDED WITH SLOLINO V-VALUE, THERMOSTATIC EXPANSION VALVE, AND ELECTRONIC THERMOSTAT, PIPED AND WIRED TO THE JUNCTION BOX FOR POSITIVE PUMP DOWN.
  - B. EVAPORATIVE COILS SHALL BE EQUIPPED WITH ENERGY SAVING "CE" MOTORS.

1250 E. FRANKLIN AVENUE, POMONA, CA 91766  
PHONE: (909) 865-2229 FAX: (909) 868-0777  
E-MAIL: [gshare@cooltecrefrigeration.com](mailto:gshare@cooltecrefrigeration.com)

[illegible]


MODELS: ADT / LET

SYSTEM	UNIT MODEL No.	CAPACITY BTU	LENGTH	FANS				ELEC. DEFOST	CONNECTIONS (In.)			APPROX. SHIP WT. (Lbs.)
				QTY.	CFM	EC MOTOR 115/160	EC MOTOR 205/160		COIL INLET OD	SUCTION ID	DRAIN MPT	
A	ADT104AEK	10400	45-1/2"	2	1400	1.8	--	--	1/2"	7/8"	3/4"	49
B	LET090BEK	9000	45-1/2"	2	1300	--	1.0	7.8	1/2"	5/8"	3/4"	48



NOTES:

SUCTION LINES WITH ARMAFLEX:  
 COMMERCIAL TEMPERATURE AND 1" FOR LOW TEMP.  
 S BRAZED WITH 35% SILVER CONTENT BAZING ROD  
 P" TRAP ON SUCION LINE EVERY 15' OF EVERY VERTICAL RISE  
 INVERTED TRAP ON TOP OF THE RISE TO PREVENT OIL FROM SEEPING DOWN -NOT TO  
 S VERTICALLY OVER ALL



1. GENERAL CONTRACTOR

A. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER TRADES.

- [illegible]

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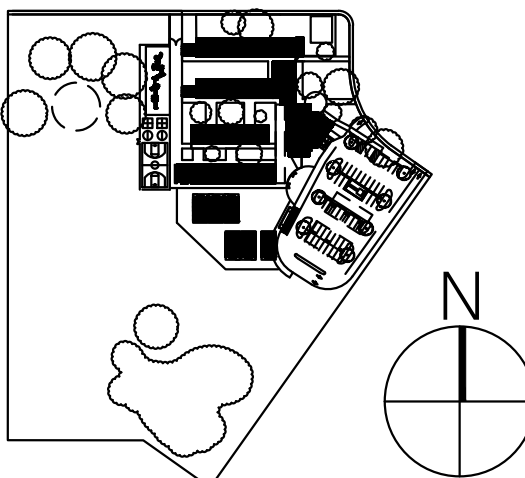
ARCHITECT	ENGINEER
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<input type="radio"/> CONSTRUCTION	

## KEY PLAN



WASHINGTON UNIFIED  
SCHOOL DISTRICT  
930 WESTACRE ROAD  
WEST SACRAMENTO, CA 9569

# DSA SUBMITTAL

WESTMORE OAKS  
ELEMENTARY  
SCHOOL

1504 FALLBROOK ST.  
WEST SACRAMENTO, CA 95691

# FOODSERVICE EQUIPMENT REMOTE REFRIGERAION DETAIL

Date	Drawing Number
05/20/19	
Scale	
AS NOTED	
Project Number	
19003.1	

# FS7.0





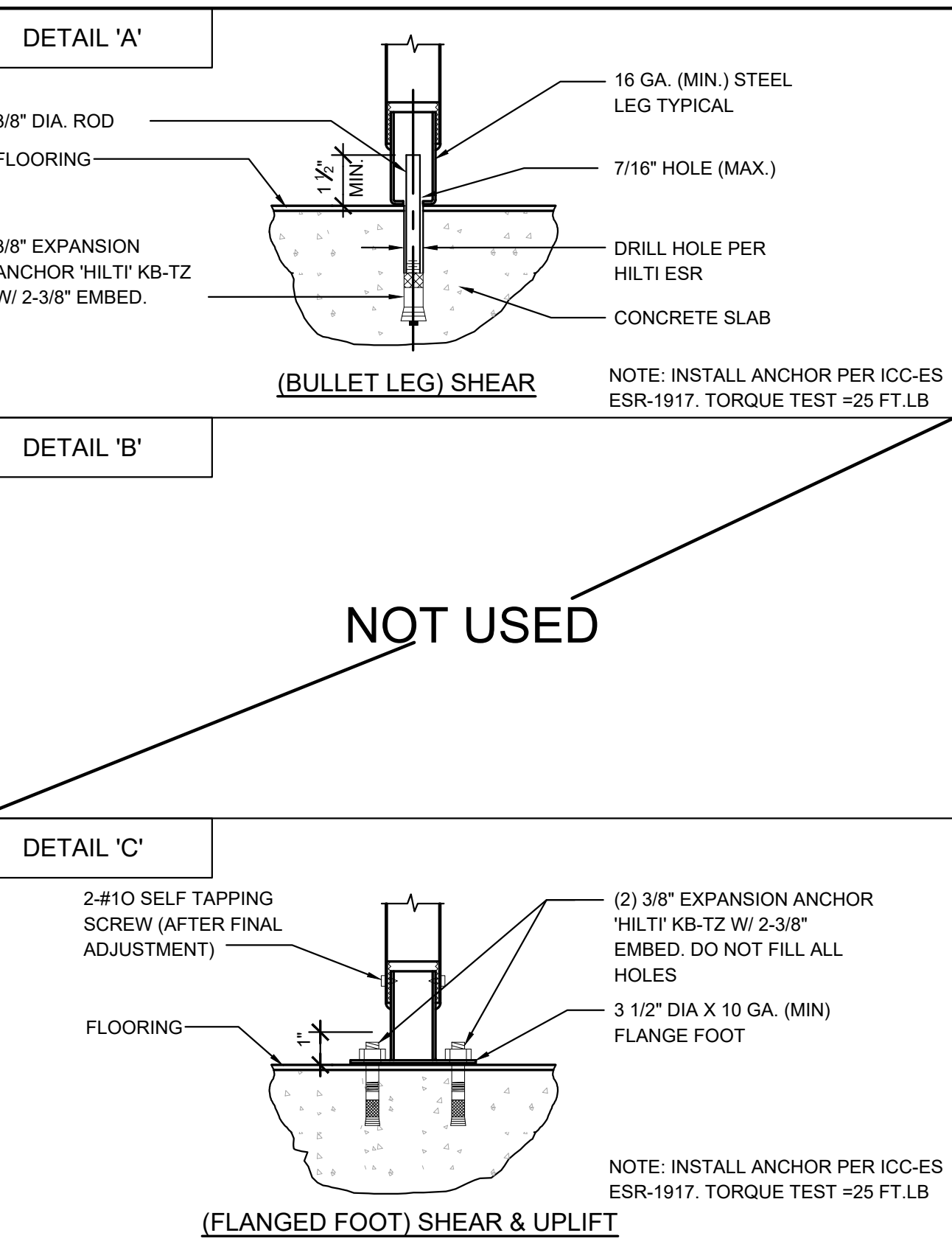




\_\_\_\_\_ FS8.1  
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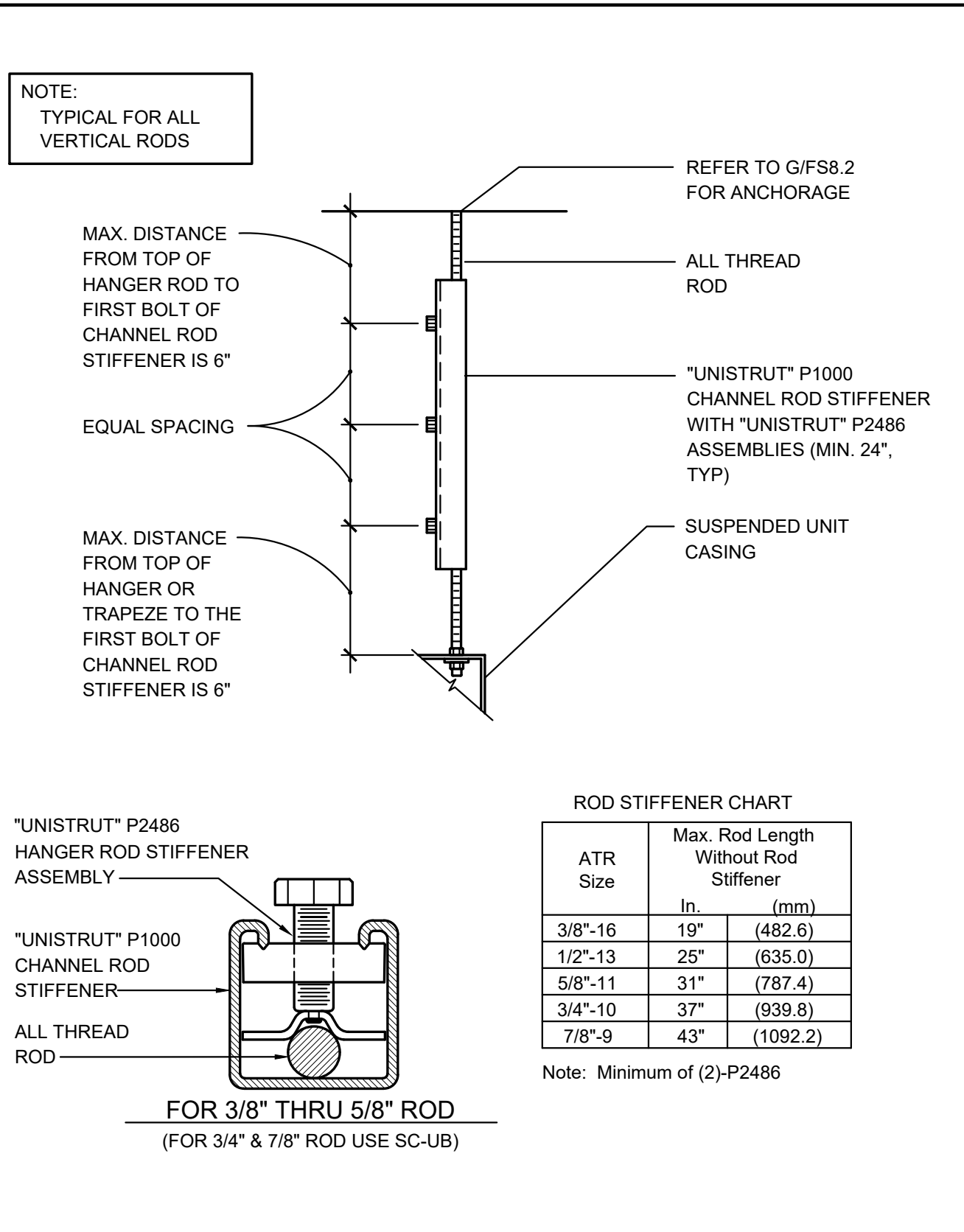
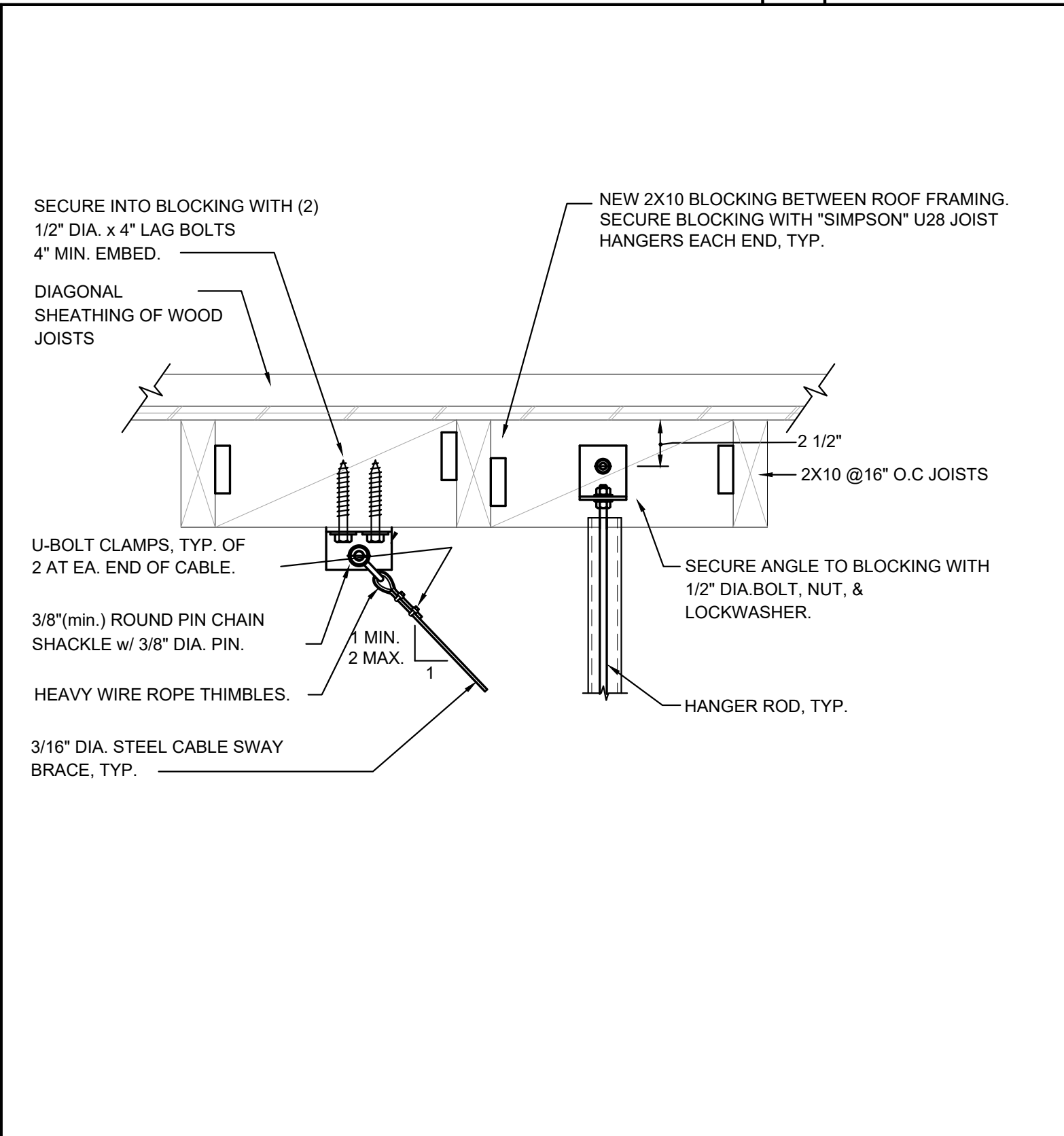
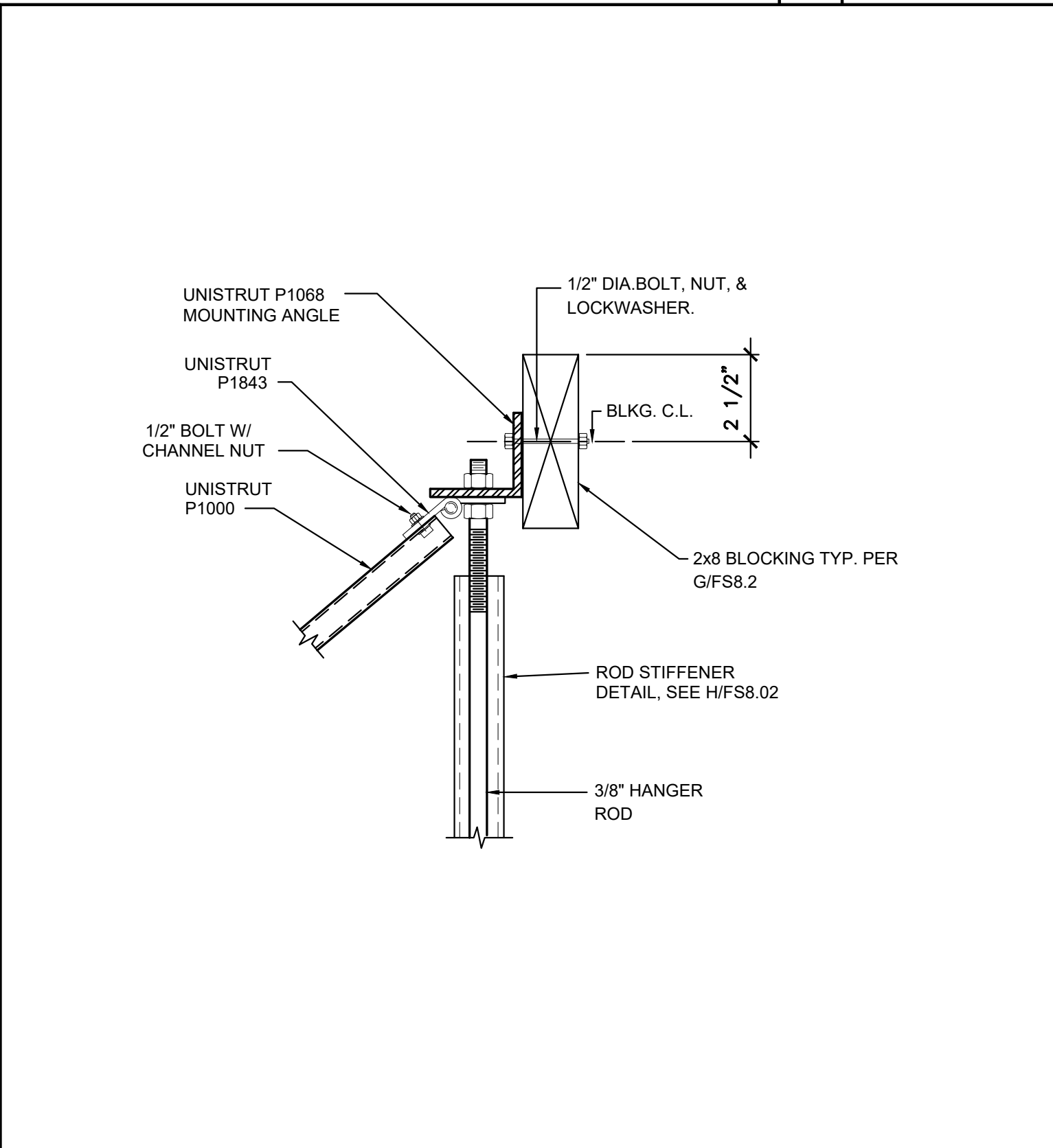


L:\2017\170315\05\1250 Draining\1205 AutoCAD Project Files\Fig 2A.DWG - TB - January 28, 2018

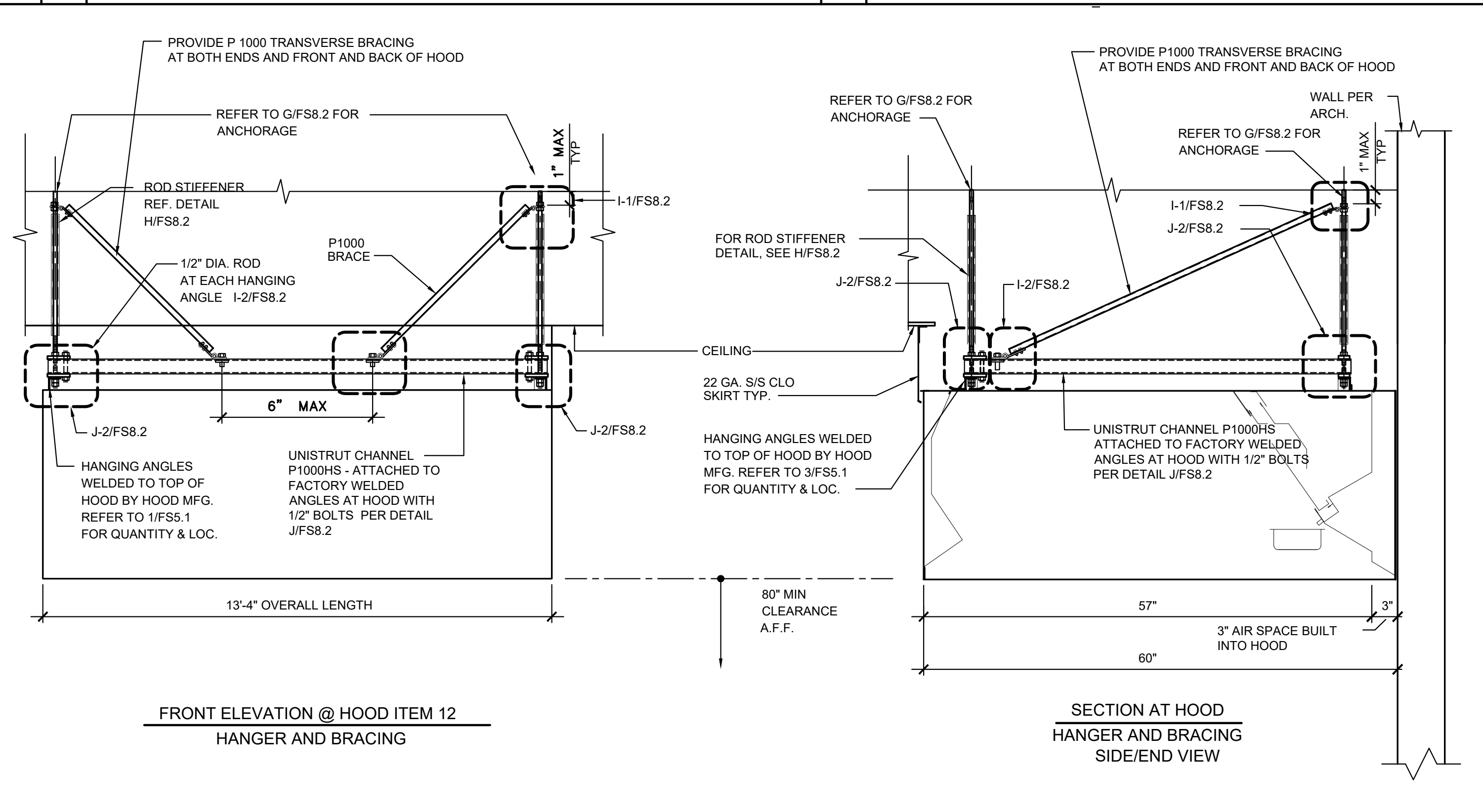
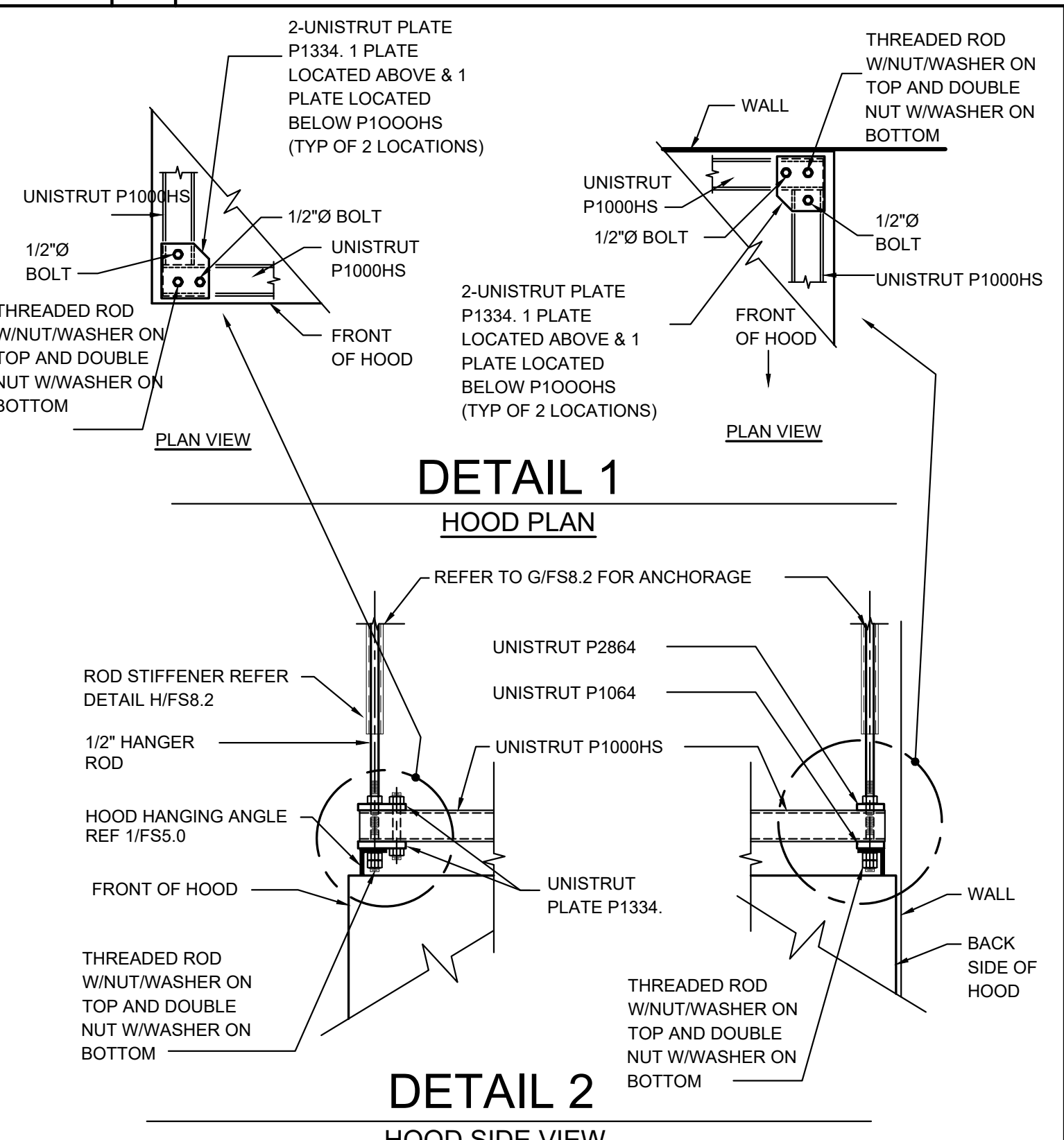


- 
- REFER TO 1/5F4.0 FOR BLOCKING TYPE AND LOCATION
- 3"x1/2" 18GA S/S POST BRACKET
- 2- 3 1/2" #14 WS.
- 1'-0" EQUAL
- 4'-9"
- POST CLAMP PER MANUFACTURER
- POST CLAMP PER MANUFACTURER
- DRY STORAGE SHELVING POST ACTUAL (1" = 42.25/16 (2.6316))
- SHELVING LEG POSTS
- 2"x2" 10GA S/S SEISMIC FOOT PLATE #SAFP-2
- 3/16 POST
- PLAN VIEW
- SIDE VIEW
- FINISHED FLOOR
- 2'- 2-#14 SMS
- 2 1/2"
- 1 1/4" Ø HOLE
- 3"
- S/S POST BRACKET
- POST CLAMP PER MANUFACTURER. 1 CLAMP PER FRONT AND BACK POSTS. SEE SIDE VIEW FOR LOCATIONS
- 1/2" EXPANSION "HILT" KB-TZ ANCHOR REQUIRED 2" EMBEDMENT (1 PER FLANGED FOOT)
- POST CLAMP PER MANUFACTURER. 1 CLAMP PER FRONT AND BACK POSTS. SEE SIDE VIEW FOR LOCATIONS
- SIDE VIEW
- FRONT VIEW
- NOTE:
1. S/S POST BRACKET TO BE LOCATED ON TOP SHELF AT REAR POST AS SHOWN.
  2. FOR SIZE AND LOCATION OF DRY STORAGE SHELVING SEE FIGS 1/5F4.0

D	DRY STORAGE SHELVING ATTACHMENT
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### ROD STIFFENER DETAIL



EXHAUST HOOD ATTACHMENT DETAIL

## FS8.2