REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

BUILDING PERMITS ARE NOT VALID FOR "OFF-SITE" IMPROVEMENTS SEPARATE CONSTRUCTION PERMITS ARE REQUIRED FROM THE PUBLIC WORKS DEPARTMENT

THE ISSUANCE OR GRANTING OF A PERMIT BASED ON THE APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO PERMIT OR APPROVE ANY VIOLATION OF THE APPLICABLE CODES OR ORDINANCES. NO PERMIT PRESUMED TO GIVE AUTHORITY TO VIOLATE OR CANCEL THE PROVISIONS OF SUCH CODES SHALL BE VALID.

REVIEWED FOR CODE COMPLIANCE BY:

JEFF BAUGHMAN

FONTANA FIRE STATION No. 80 & TRAINING CENTER

San Bernardino County Fire Department
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue
APN: 0228-021-46

IT IS THE ARCHITECT'S AND OWNER'S RESPONSIBILITY TO COMPLY WITH THE "AMERICANS WITH DISABILITIES ACT". FOR INFORMATION CONTACT THE U.S. DEPARTMENT OF JUSTICE AT (800) 514-0301.
CITY OF FONTANA

CONSTRUCTION WASTE
All hauling of construction, demolition debris, shall be contracted through Burrtec Waste Industries (909) 822-9739. Weight slips documenting the disposed and diverted debris must be provided to Fontana's Building & Safety Department prior to the final inspection.

FIRE SPRINKLERS REQUIRED

Description:
CIP PERMIT FOR CONSTRUCTION OF NEW 4,193 S.F. SINGLE-STORY TRAINING CENTER WITH PUBLIC LOBBY/RESTROOMS, OFFICES, MALE/FEMALE RESTROOM, LOCKERS AND SHOWERS, TRAINING ROOM, STORAGE ROOMS AND SUPPORT SPACES. [FONTANA FIRE STATION NO. 80 TRAINING CENTER]
BLD-25-01183

Description:
PERMIT FOR CONSTRUCTION OF A 458' LF BY 6'H CMU WALL WITH (7) PILASTERS, AND A 910' LF BY 6'H TUBULAR STEEL FENCE WITH PRIVACY SCREEN, PER PLAN.
WALL-25-00493

Description:
PERMIT FOR (1) 196 SF TRASH ENCLOSURE.
BLD-25-01177

Description:
PERMIT FOR (22) LIGHT STANDARDS.
ELEC-25-00377

CODE COMPLIANCE NOTES

1. FUEL-EFFICIENT VEHICLE PARKING SHALL BE PROVIDED IN ACCORDANCE WITH CGBSC SECTION 5.106.5.1.
2. EXTERIOR LIGHT POLLUTION MUST COMPLY WITH CGBSC SECTION 5.106.8.
3. SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN TO THE ENGINEERING DEPARTMENT OR OTHER AGENCY THAT REGULATES CONSTRUCTION WASTE MANAGEMENT IN ACCORDANCE WITH CGBSC SECTION 5.408.2.
4. A MINUMUM OF 50 PERCENT OF THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS IS TO BE RECYCLED IN ACCORDANCE WITH CGBSC SECTION 5.408.3.
5. 100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED IN ACCORDANCE WITH CGBSC SECTION 5.408.4.
6. A BUILDING "SYSTEM MANUAL" AS LISTED IN CGBSC SECTION 5.410.2.5 SHALL BE DELIVERED TO THE BUILDING OWNER OR REPRESENTATIVE AND THE FACILITIES OPERATOR. THE "SYSTEM MANUAL" SHALL CONTAIN THE REQUIRED FEATURES LISTED IN CGBSC SECTION 5.410.2.5.1.
7. A BUILDING "MAINTENANCE AND OPERATION MANUAL" AS OUTLINED IN CGBSC SECTION 5.410.4.5 SHALL BE DELIVERED TO THE BUILDING OWNER OR REPRESENTATIVE AT TIME OF FINAL BUILDING INSPECTION.
8. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL ENDS OF DUCT OPENINGS SHALL BE SEALED, AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED IN ACCORDANCE WITH CGBSC SECTION 5.504.3.
9. VOC CONTENTS MUST COMPLY WITH THE LIMITATIONS LISTED IN CGBSC SECTION 5.504.4 AND TABLE 4.504.1, 5.504.4.1, 5.504.4.2, 5.504.4.3, AND 5.504.4.5 FOR ADHESIVES, SEALANTS, PAINTS AND COATINGS, CARPETS AND COMPOSITION WOOD PRODUCTS.
10. INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCs OR HALONS IN ACCORDANCE WITH CGBSC SECTION 5.508.1.1 AND 5.508.1.2.
11. LANDSCAPE IRRIGATION WATER USE SHALL HAVE WEATHER BASED CONTROLLERS IN ACCORDANCE WITH CGBSC SECTION 5.304.3.1.
12. PRIOR TO FINAL APPROVAL OF THE BUILDING, THE LICENSED CONTRACTOR IN RESPONSIBLE CHARGE OF THE OVERALL CONSTRUCTION MUST COMPLETE AND SIGN THE GREEN BUILDING STANDARDS CERTIFICATION FORM AND GIVE TO THE BUILDING DEPARTMENT OFFICIAL TO BE FILED WITH THE APPROVED PLANS.

DEFERRED APPROVAL

DEFERRED APPROVAL ITEMS:

DEFERRED SUBMITTALS AND FINAL APPROVALS ARE A CONTRACTOR RESPONSIBILITY AND SHALL BE COMPLETED CONSISTENT WITH THE CONTRACTOR'S APPROVED CONSTRUCTION SCHEDULE.

INSTALLATION OF DEFERRED APPROVAL ITEMS SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE OF DESIGN AND SIGNED BY A CALIFORNIA REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.

DEFERRED APPROVAL ITEMS SHALL BE SUBMITTED FOR REVIEW NO LATER THAN 60 DAYS AFTER THE NOTICE TO PROCEED.

DEFERRED APPROVAL ITEMS FOR THIS PROJECT ARE THE FOLLOWING:

A. AUTOMATIC FIRE SPRINKLER SYSTEM (PER NFPA 13)
B. FIRE ALARM SYSTEM
C. UNDERGROUND FIRE LINE, PIV, AND FDC
D. WHP TRAINING TOWER

DEFERRED SUBMITTAL:
GRADING
MONUMENT SIGN/FLAG POLE
TRAINING TOWER
FIRE STATION

GOVERNING CODES

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

2022 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2 (2021 INTERNATIONAL BUILDING CODE (IBC) W/ CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 (2020 NATIONAL ELECTRIC CODE (NEC) W/ CALIFORNIA AMENDMENTS)

2022 CALIFORNIA MECHANICAL CODE (CMC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4 (2021 UNIFORM MECHANICAL CODE (UMC) W/ CALIFORNIA AMENDMENTS)

2022 CALIFORNIA PLUMBING CODE (CPC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5 (2021 UNIFORM PLUMBING CODE (UPC) W/ CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

2022 CALIFORNIA HISTORICAL BUILDING CODE CALIFORNIA CODE (CHBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 8

2022 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9 (2021 INTERNATIONAL FIRE CODE (IFC) W/ CALIFORNIA AMENDMENTS)

2022 CALIFORNIA EXISTING BUILDING CODE (CEBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10 (2021 INTERNATIONAL INTERNATIONAL EXISTING BUILDING CODE (IEBC) W/ CALIFORNIA AMENDMENTS)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 11 1990 STATE FIRE MARSHAL REGULATIONS (AS AMENDED TO DATE) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19

2022 CALIFORNIA REFERENCED STANDARDS CODE (CRSC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12 2010 AMERICANS WITH DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN (ADAS)

CALIFORNIA ELEVATOR SAFETY CODE, CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 8

APPLICABLE NFPA , UL AND ICC STANDARDS

NFPA 13	-	AUTOMATIC SPRINKLER SYSTEMS, 2022 EDITION-CA AMENDED
NFPA 14	-	STANDPIPE SYSTEMS, 2019 EDITION-CA AMENDED
NFPA 17	-	DRY CHEMICAL EXTINGUISHING SYSTEMS, 2021 EDITION
NFPA 17A	-	WET CHEMICAL SYSTEMS, 2021 EDITION
NFPA 20	-	STATIONARY PUMPS, 2019 EDITION
NFPA 22	-	WATER TANKS FOR PRIVATE FIRE PROTECTION, 2023 EDITION
NFPA 24	-	PRIVATE FIRE MAINS, 2019 EDITION-CA AMENDED
NFPA 25	-	WATER BASED FIRE PROTECTION SYSTEMS, 2023 EDITION
NFPA 72	-	NATIONAL FIRE ALARM CODE, 2022 EDITION-CA AMENDED
NFPA 80	-	FIRE DOORS AND OTHER OPENING PROTECTIVES, 2019 EDITION
NFPA 92	-	STANDARD FOR SMOKE CONTROL SYSTEMS, 2018 EDITION
NFPA 253	-	CRITICAL RADIANT FLUX OF FLOOR COVERINGS, 2019 EDITION
NFPA 2001	-	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2018 EDITION-CA
ICC 300	-	ICC STANDARDS FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS, 2017 EDITION
UL 300	-	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL RESTAURANT COOKING AREAS, 2005 EDITION W/ REVISIONS THRU 2010
UL 464	-	AUDIBLE SIGNAL APPLIANCES, 2003 EDITION
UL 521	-	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION W/ REVISIONS THRU 2005

NOTE: ALL NFPA STANDARDS AS LISTED ARE TO CONFORM TO THE EDITION AS LISTED WITH THE LATEST CALIFORNIA AMENDMENTS. REFERENCE THE 2022 CBC, TITLE 24, PART 2 - CHAPTER 35 FOR ADDITIONAL APPLICABLE NFPA, UL. STANDARDS AND ANY CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

FONTANA FIRE PREVENTION - FIRE DEPARTMENT NOTES

9. ALL FIRE SPRINKLER SYSTEMS ARE REQUIRED TO BE MONITORED AT A CENTRAL, REMOTE OR PROPRIETARY STATION. FIRE ALARM SYSTEM(S) SHALL BE PROVIDED AND PLANS SUBMITTED TO THE FONTANA FIRE PREVENTION FOR APPROVAL PRIOR TO INSTALLATION. 2022 CFC, CHAPTER 9, SECTION 903.4.
10. EVERY ROOM OR SPACE THAT IS ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT. 2022 CFC, CHAPTER 10, SECTION 1004.3.
11. SIGNAGE ABOVE MAIN EXIT DOORS WITH ONE-INCH LETTERS IS TO READ, "THIS DOOR TO REMAIN UNLOCKED WHEN OCCUPIED". 2022 CFC CHAPTER 10 SECTION 1008.1.9.3.,
12. PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED PER 2022 CFC CHAPTER 9, SECTION 906.
13. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE OR COMPRESSED GASES, OR ANY OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH CALIFORNIA FIRE CODE REGULATIONS. THE STORAGE AND USE OF HAZARDOUS MATERIALS SHALL BE APPROVED BY THE FONTANA FIRE PREVENTION PRIOR TO ANY MATERIALS BEING STORED OR USED ON SITE. A SEPARATE PLAN SUBMITTAL IS REQUIRED PRIOR TO THE STORAGE AND USE OF HAZARDOUS MATERIALS. 2022 CFC CHAPTERS 1, 24, 32, 50.51, 52, 53, 54, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67.
14. SMOKE DETECTION FOR THE DUCT SYSTEM WHERE REQUIRED BY THE MECHANICAL CODE SHALL BE DESIGNED AND INSTALLED PER THE REQUIREMENTS SET FORTH IN NFPA 72, 2022 EDITION.
15. DUCT DETECTORS IN INDIVIDUAL TENANT SPACES OF MULTI TENANT BUILDINGS SHALL BE POWERED FROM THE MAIN BUILDING ALARM POWER SUPPLY.
16. INTERIOR WALL OR CEILING FINISH MATERIALS SHALL BE PERMITTED TO BE TESTED IN ACCORDANCE WITH NFPA-286, IT SHALL COMPLY WITH SECTION 803.1.2.1.
17. ACCEPTANCE CRITERIA FOR NFPA-286, THE INTERIOR FINISH SHALL COMPLY WITH THE FOLLOWING:
A. DURING THE 40 KW EXPOSURE, FLAMES SHALL NOT SPREAD TO THE CEILING.
B. THE FLAMES SHALL NOT SPREAD TO THE OUTER EXTREMITY OF THE SAMPLE ON ANY WALL OR CEILING.
C. FLASHOVER, AS DEFINED IN NFPA-286 SHALL NOT OCCUR.
D. THE PEAK HEAT RELEASE RATE THROUGHOUT THE TEST SHALL NOT EXCEED 800 KW.
E. THE TOTAL SMOKE RELEASED THROUGHOUT THE TEST SHALL NOT EXCEED 1,000 M2.
18. WHERE REQUIRED TO BE FLAME RESISTANT, DECORATIVE MATERIAL SHALL BE TESTED BY AN APPROVED AGENCY AND MEET THE FLAME PROPAGATION PERFORMANCE CRITERIA OF NFPA-701, REPORTS OF THE TEST RESULTS SHALL BE PREPARED IN ACCORDANCE WITH NFPA-701 AND FURNISHED TO THE FIRE CODE OFFICIAL UPON REQUEST. SECTION 807.2 OF 2022 CFC.
19. THE FLAME-SPREAD INDEX F INTERIOR WALL AND CEILING FINISH WITHIN THE CORRIDOR, LOBBY AND EXIT ENCLOSURES MUST COMPLY WITH TABLE 803.9.
20. BUILDING ACCESS AND/OR GATE ACCESS IS REQUIRED. PROVIDE A KNOX BOX AT THE FOLLOWING LOCATION: FIRE SPRINKLER RISER ROOM.

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T2	CODE ANALYSIS	M0.2	MECHANICAL SCHEDULES
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T5	2022 CAL-GREEN NON-RESIDENTIAL MANDATORY REQ.	M3.1	MECHANICAL DETAILS
T6	CONDITIONS OF APPROVAL	M3.2	MECHANICAL DETAILS
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		5	RIGHT SIDE ELEVATIONS
		6	REAR SIDE ELEVATIONS
		7	LEFT SIDE ELEVATIONS

OWNER AND FIRE DEPARTMENT

OWNER
CITY OF FONTANA
8353 SIERRA AVENUE
FONTANA, CA 92335
(909) 350-7600

FIRE DEPARTMENT
SAN BERNARDINO COUNTY FIRE DEPARTMENT
VALLEY DIVISION
15380 SAN BERNARDINO AVE.
FONTANA, CA 92335
(909) 829-4441 FAX (909) 357-1551

PROJECT TEAM

ARCHITECT
PBK ARCHITECTS
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
(909) 987-0909 FAX (909) 980-9980

ELECTRICAL ENGINEER
A & F ENGINEERING GROUP, INC.
9320 BASELINE ROAD, SUITE C
RANCHO CUCAMONGA, CA 91701
(909) 941-3008 FAX (909) 941-8211

CIVIL ENGINEER
MSL ENGINEERING, INC.
301 NORTH SAN DIMAS AVENUE
SAN DIMAS, CA 91773
(909) 305-2395 FAX (909) 305-2397

LANDSCAPE ARCHITECT
CORNERSTONE STUDIOS, INC.
951 E. SANTA ANA BOULEVARD
SANTA ANA, CA 92701
(714) 973-2200 FAX (714) 973-0203

STRUCTURAL ENGINEER
R.M. BYRD | MIYAMOTO
1047 W. SIXTH STREET, SUITE A
ONTARIO, CA 91762-1209
(909) 983-5599 FAX (909) 983-4456

GEOTECHNICAL ENGINEER
LEIGHTON CONSULTING, INC.
10532 ACACIA STREET, SUITE B-6
RANCHO CUCAMONGA, CA 91730
(909) 484-2205 FAX (909) 484-2170

MECHANICAL/ PLUMBING ENGINEER
POCOCK DESIGN SOLUTIONS
14451 CHAMBERS ROAD, SUITE 210
TUSTIN, CA 92780
(949) 417-3903 FAX (949) 419-1393

PROJECT SCOPE

PROJECT SCOPE

PHASE 01:

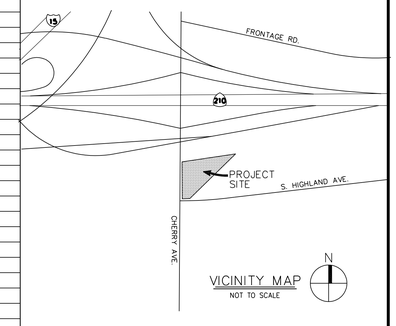
1. NEW 4,193 S.F. SINGLE-STORY TRAINING CENTER WITH PUBLIC LOBBY/RESTROOMS, OFFICES, MALE/FEMALE RESTROOM, LOCKERS AND SHOWERS, TRAINING ROOM, STORAGE ROOMS AND SUPPORT SPACES.
2. NEW 7,000 S.F. SIX-STORY TRAINING TOWER, BY OTHERS.
3. NEW SITE IMPROVEMENTS CONSISTING OF 6' TALL SITE PERIMETER CMU WALLS, 6' TALL SITE PERIMETER TUBE STEEL FENCING, SLIDING SECURITY GATE, VISITOR/CREW PARKING AREA, LANDSCAPING, PRIVATE FIRE HYDRANTS, ELECTRICAL TRANSFORMER, LIGHT STANDARDS, FLAG POLE, MONUMENT SIGN AND COVERED TRASH ENCLOSURE.

PHASE 02:

4. NEW 14,663 S.F. TWO-STORY FIRE STATION WITH 9 CREW DORMITORIES, 5 CREW BATHROOMS, DAY ROOM, LINING ROOM, KITCHEN, EXERCISE ROOM, CREW OFFICE AREAS, VARIOUS APPARATUS SUPPORT SPACES, 3-BAY SINGLE-DEEP APPARATUS ROOM AND ATTACHED 1-BAY SINGLE-DEEP BC APPARATUS ROOM.
5. NEW SITE IMPROVEMENTS CONSISTING OF LANDSCAPING, EMERGENCY GENERATOR, RESPONSE/RETURN DRIVEWAYS, AND OFF-SITE STREET IMPROVEMENTS.

THE FOLLOWING WORK AND/OR ANCILLARY STRUCTURES ARE INCLUDED WITH SCOPE OF WORK, MAY REQUIRE ADDITIONAL PERMITS, VERIFY WITH CITY:
- ELECTRICAL WORK
- MECHANICAL WORK
- PLUMBING WORK
- RETAINING WALLS/GRADING
- LIGHT STANDARDS
- TRASH, GENERATOR, AND ELECTRICAL TRANSFORMER ENCLOSURES
- CMU PERIMETER WALLS
- FLAG POLE
- BUILDING SIGN(S)
- MONUMENT SIGN

VICINITY MAP



PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER
SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLE PRETZHAM
C-19664
In de 03/31/27
STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
			REVISIONS

DRAWN: JM | CHECKED: JM
DATE: 05/21/2025 | SCALE: NONE
PROJECT NUMBER: W2100100AR

TITLE SHEET

DRAWING NUMBER: T1

BID SET_20250818

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

∠	Angle	DBL.	Double	GA.	Gauge	N	North	SST.	Stainless Steel
@	At	DEPT.	Department	GALV.	Galvanized	N.I.C.	Not In Contract	STD.	Standard
— · —	Centerline	D.F.	Drinking Fountain/	G.B.	Grab Bar	No. or #	Number	STL.	Steel
⊏	Channel		Douglas Fir	GI	Galvanized Iron	NOM.	Nominal	STOR.	Storage
∅	Diameter or Round	DIA.	Diameter	GL.	Glass	N.T.S.	Not To Scale	STRUCT.	Structural
d	Penny (Nails)	DIAG.	Diagonal	GND.	Ground			SUSP.	Suspended
#	Pound or Number	DIM.	Dimension	GR.	Grade	OD	Outside Diameter	SYM.	Symmetrical
(E)	Existing	DISP.	Dispenser	GS	Galvanized Steel	O.A.	Overall	SYS.	System
(N)	New	DN.	Down	GYP.	Gypsum	OC	On Center		
		DR.	Door			OCC.	Occupant	T.B.	Towel Bar
A/C	Air Conditioning	DS.	Downspout	H.B.	Hose Bibb	O.C.F.I.	Owner Furnished,	TEL.	Telephone
A.C.	Asphaltic Concrete	D.S.P.	Dry Standpipe	H.C.	Hollow Core		Contractor Installed	TER.	Terrazzo
ACOUS.	Acoustical	DTL.	Detail	HDR.	Header	OFF.	Office	THK.	Thick
A.D.	Area Drain	DWG.	Drawing	HDWD.	Hardwood	OPP.	Opposite	T. & G.	Tongue & Groove
ADJ.	Adjustable	DWR.	Drawer	HDWR.	Hardware	OPER.	Operable	T.O.C.	Top of Curb
A.F.F.	At Finish Floor			H.M.	Hollow Metal			T.O.C.D.	Top of Concrete Deck
ALT.	Alternate	E	East	HORIZ.	Horizontal	PART.	Partition	T.O.M.	Top of Masonry
ALUM.	Aluminum	EA.	Each	HSS	Hollow Steel Section	PL.	Plate	T.O.P.	Top of Pavement/
APPROX.	Approximate	E.J.	Expansion Joint	HT.	Height	P.LAM.	Plastic Laminate		Top of Parapet
ARCH.	Architectural	EL.	Elevation			PLAS.	Plaster	T.O.R.D.	Top of Roof Deck
		ELEC.	Electrical	I.D.	Inside Diameter	PLYWD.	Plywood	T.O.S.	Top of Sheathing
BD.	Board	ELEV.	Elevator	INSUL.	Insulation	PNL.	Panel	T.O.W.	Top of Wall
BITUM.	Bituminous	EMER.	Emergency	INT.	Interior	PR.	Pair	TRD.	Tread
BLDG.	Building	ENCL.	Enclosure			PT.	Point	T.S.	Tube Steel
BLK.	Block	EQ.	Equal	JAN.	Janitor			T.S.W.	Top of Sidewalk
BLKG.	Blocking	EQPT.	Equipment	JT.	Joint	Q.T.	Quarry Tile	T.V.	Television
B.M.	Bench Mark	E.W.	Each Way					TYP.	Typical
BM.	Beam	EXH.	Exhaust	KIT.	Kitchen	R	Riser		
BOT.	Bottom	EXP.	Expansion			R.D.	Roof Drain	U.L.	Underwriters Laboratory
		EXT.	Exterior	LAB.	Laboratory	REF.	Reference	U.N.O.	Unless Noted Otherwise
CAB.	Cabinet			LAM.	Laminate	REFR.	Refrigerator	U.O.N.	Unless Otherwise Noted
C.B.	Chalk Board	F.A.	Fire Alarm	LAV.	Lavatory	REG.	Register		
CEM.	Cement	F.D.	Floor Drain	LKR.	Locker	REINF.	Reinforced	V.C.T.	Vinyl Composition Tile
CER.	Ceramic	FDN.	Foundation	LT.	Light	REQ.	Required	VERT.	Vertical
CERT.	Certificate	F.E.	Fire Extinguisher			RESIL.	Resilient	VEST.	Vestibule
C.I.	Cast Iron	FEC	Fire Extinguisher Cabinet	MAINT.	Maintenance	R.H.	Round Head	VT.R.	Vent Through Roof
C.J.	Construction Joint	F.F.	Finish Floor	MAT.	Material	RM.	Room	V.W.C.	Vinyl Wall Covering
C.L.	Chain Link / Center Line	F.G.	Finish Grade	MAX.	Maximum	R.O.	Rough Opening		
CLG.	Ceiling	F.H.	Flat Head	M.B.	Machine Bolt	RWD.	Redwood	W	West
CLR.	Clear	FHC	Fire Hose Cabinet	MECH.	Mechanical			W/	With
C.M.U.	Concrete Masonry Unit	FIN.	Finish	MEMB.	Membrane	S	South	W.C.	Water Closet
COL.	Column	F.LASH.	Flashing	MEZZ.	Mezzanine	S.C.	Solid Core	WD.	Wood
CONC.	Concrete	FLR.	Floor	MFR.	Manufacturer	SCHED.	Schedule	WDW.	Window
CONN.	Connection	F.LUOR.	Fluorescent	MH.	Manhole	SECT.	Section	W/O	Without
CONSTR.	Construction	F.O.C.	Face of Concrete	MIN.	Minimum	SH.	Shelf	W.S.	Wood Screw
CONT.	Continuous	F.O.F.	Face of Finish	MIR.	Mirror	SHT.	Sheet	WT.	Weight
CORR.	Corridor	F.O.M.	Face of Masonry	MISC.	Miscellaneous	SHWR.	Shower	W.W.F.	Welded Wire Fabric
CPT.	Carpet	F.O.S.	Face of Studs	M.O.	Masonry Opening	SIM.	Similar		
CTSK.	Countersunk	FT.	Foot or Feet	MTD.	Mounted	SPEC.	Specification		
CTR.	Center	FTG.	Footing	MTL.	Metal	SQ.	Square		
CW.	Cold Water	FURR.	Furring	MUL.	Mullion				
C.T.	Ceramic Tile								

ABBREVIATIONS 17

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 INTERCEPTING 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 OR 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 PBK ARCHITECTS, INC., AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF PBK ARCHITECTS, INC.

4. THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, PBK ARCHITECTS, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS PBK ARCHITECTS, INC. RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

5. ALL FIRE LANES TO BE UNOBSTRUCTED DURING ALL PHASES OF CONSTRUCTION.

6. PENETRATIONS TO 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):

   THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDING(S) WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED IT (THEY) IS (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 PLANS 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 PLANS.

   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 CALIFORNIA CODE OF REGULATIONS, SECTIONS 707 AND 2602.]

   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(a)1.

   F. MANUFACTURED FENESTRATION 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 (NFRC) NATIONAL FENESTRATION RATING 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 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.

   (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 PULLOUT 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 1925A.3.5.

   I. ALL BOLTS MUST HAVE ICC/ES APPROVAL.

   J. ALL ANCHOR BOLTS OF THE EXPANSION TYPE INSTALLED IN CONCRETE SHALL BE ONE OF THE FOLLOWING:

   (1). RAWLPLUG CO., INC.-RAWL BOLT-SLEEVE ANCHOR-ICC/ES NO. 5225.

   (2). ITW RAMSET/REDHEAD-WEDGE ANCHOR-ICC/ES NO. 1372

   (3). HILTI, INC.-KWIK BOLT III-WEDGE ANCHOR-ICC/ES NO. 1385

   MINIMUM TEST VALUES:
   NORMALWEIGHT OR LIGHTWEIGHT CONCRETE

ANCHOR	WEDGE			
DIA. (IN)	TENSION LOAD (LBS)	TORQUE (FT-LBS)	EMBEDMENT (IN)	TENSION LOAD (LBS)
1/4	1050	8	1-15/16	540
3/8	1740	25	3	1680
1/2	2330	55	4-1/8	2410
5/8	3290	90	5-1/8	2590
3/4	5490	175	6-5/8	2900

   K. ALL ANCHOR BOLTS OF THE EXPANSION TYPE INSTALLED IN GROUT FILLED MASONRY SHALL BE ONE OF THE FOLLOWING:

   (1). HILTI, INC.-KWIK BOLT III-WEDGE ANCHOR-ICC/ES NO. 1385

   (2). SIMPSON-WEDGE ALL-WEDGE ANCHOR-ICC/ES NO. 1396

   MINIMUM TEST VALUES:
   GROUT FILLED CONCRETE MASONRY

ANCHOR	WEDGE	
DIA. (IN)	TENSION LOAD (LBS)	TORQUE (FT-LBS)
1/4	1080	4
3/8	1564	20
1/2	1810	40
5/8	2484	85
3/4	3290	150

9. POWDER DRIVEN CONCRETE FASTENERS:

   A. GENERAL: USE OF POWDER DRIVEN CONCRETE FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS LIKE ACOUSTICAL CEILINGS, DUCT WORK, CONDUIT.

   B. ALLOWABLE LOADS: IN GENERAL, LOADS SHOULD BE LIMITED TO LESS THAN 100 POUNDS, HOWEVER, GREATER LOADS MAY BE PERMITTED FOR SPECIAL CASES WHEN APPROVED BY THE CHECKING SUPERVISOR OR FIELD ENGINEER.

   C. TESTING: THE OPERATOR, TOOL, AND FASTENER SHALL BE PREQUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD, OR 200 POUNDS, WHICHEVER IS GREATER, SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TESTS UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS, EXCEPT THAT WHEN THE DESIGN LOAD EXCEEDS 100 POUNDS, ONE HALF OF THE PINS SHALL BE TESTED. SHOULD FAILURE OCCUR ON ANY PIN TESTED, ALL INSTALLATIONS MUST BE TESTED AND UNFAIR PINS REPLACED.

   D. ALL POWDER DRIVEN CONCRETE FASTENERS SHALL BE ONE OF THE FOLLOWING:

   (1). HILTI, INC.
   X-DNI PINS - WOOD PLATE - ICC/ES NO. 1290
   X-DNI PINS - STEEL TRACK - ICC/ES NO. 2388

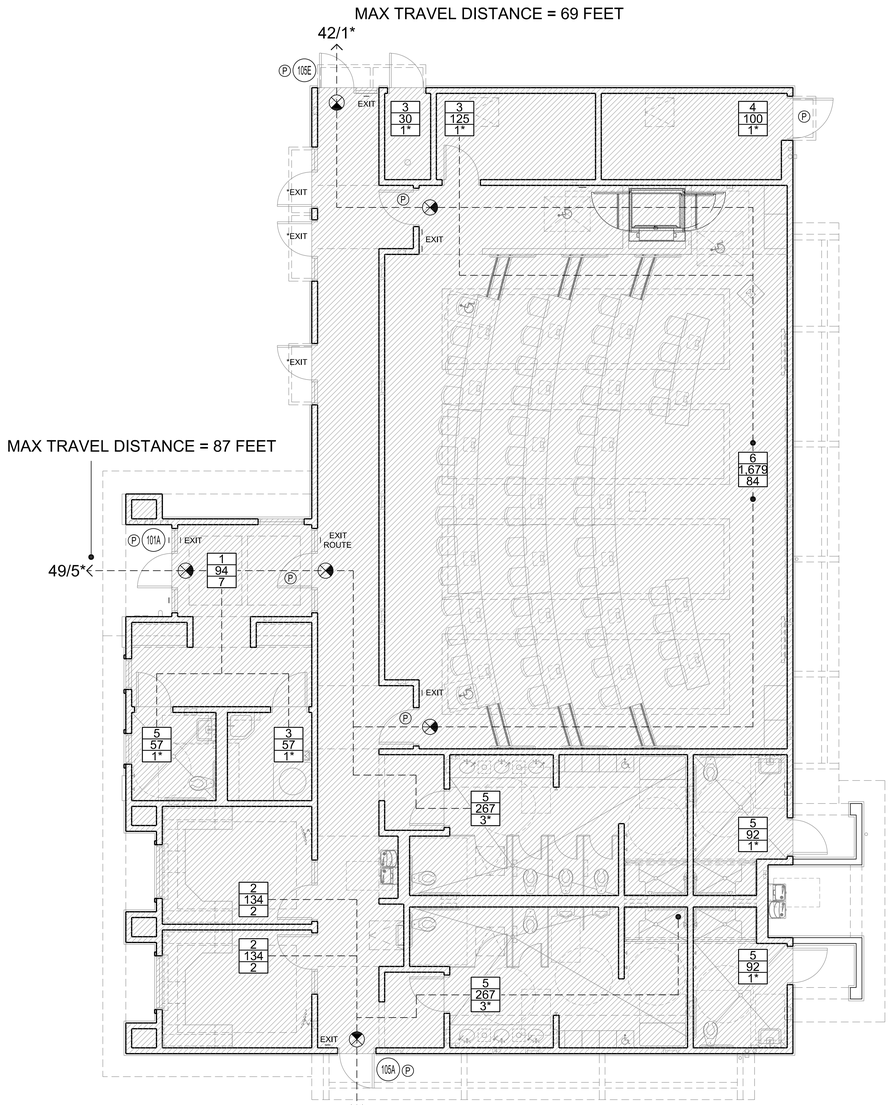
   (2). ITW RAMSET/REDHEAD
   DRIVE PIN - WOOD PLATE - ICC/ES NO. 1147
   DRIVE PIN - STEEL TRACK - ICC/ES NO. 1639

10. GRADING PERMIT AND ROUGH GRADING APPROVAL ARE REQUIRED PRIOR TO ISSUANCE OF A BUILDING PERMIT.

11. SEPARATE PERMIT IS REQUIRED FOR EACH BUILDING STRUCTURE SUCH AS FENCE WALLS AND RETAINING WALLS, LIGHT POLES, SIGNS AND FLAG POLE.

12. THE OWNER SHALL EMPLOY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN OR PERSON DESIGNATED BY THEM TO PERFORM VISUAL STRUCTURAL OBSERVATION OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM. OBSERVED DEFICIENCIES WILL BE REPORTED TO OWNER, CONTRACTOR, SPECIAL INSPECTOR AND BUILDING OFFICIAL IN WRITING. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.

13. AN EMERGENCY CONTACT PERSON AND PHONE NUMBER (JOB SUPERINTENDENT) SHALL BE PROVIDED TO THE FIRE DEPARTMENT FOR REFERENCE DURING NON-CONSTRUCTION HOURS BY THE CONTRACTOR.



B OCCUPANCY - 4,193 S.F.

FLOOR PLAN

4,193 S.F.

TOTAL OCCUPANTS: 95/13* = 108
REQUIRED NUMBER OF EXIT(S): 2
NUMBER OF EXIT(S) PROVIDED: 3/6*
(2022 CBC, TABLE No. 1006.3.3)

N

FLOOR PLAN ANALYSIS 3/16"=1'-0" 3

BUILDING SECTION — SHEET NUMBER
DETAIL NUMBER — SHEET NUMBER
DOOR IDENTIFICATION
WINDOW IDENTIFICATION
REFERENCE NOTE
WOODWORK INSTITUTE REFERENCE NUMBER
ELEVATION SYMBOLS
ROOM NAME
GRID IDENTIFICATION

SPACE USE AND OCCUPANT LOAD SCHEDULE

(BASED ON 2022 CBC TABLE 1004.5)

1. LOBBY, 15 S.F./OCC.
2. OFFICE, 100 S.F./OCC.
3. STORAGE, 300 S.F./OCC.
4. ELECTRICAL/MECH. ROOM, 300 S.F./OCC.
5. PUBLIC RESTROOM, 100* S.F./OCC.
6. CLASSROOM, 20 S.F./OCC.

AREA IDENTITY - CODE ANALYSIS

3 100 0* — SPACE USE - REFER TO SCHEDULE; FLOOR AREA IN SQUARE FEET; OCCUPANT LOAD

NOTE:
* (ASTERISK) INDICATES DUPLICATED OCCUPANCY AND IS EXCLUDED FROM EGRESS CALCULATIONS

EXIT SIGN (CBC 2022 SECTION 1013)

PANIC HARDWARE DEVICE. SEE DOOR SCHEDULE SHEET A5.1 FOR MORE INFO.

PATH OF EGRESS (NUMBER INDICATES OCCUPANT LOAD)

EXIT ACCESS TRAVEL DISTANCE (CBC 2022, TABLE 1017.2)

OCCUPANCY GROUP: B, SECTION 304.1

CONSTRUCTION TYPE: TYPE VB - SPRINKLERED/ NFPA 13

ALLOWABLE AREA: TABLE No. 506.2 (S1-SPRINKLERED, 1-STORY): 36,000 S.F. (FOR B OCCUPANCY)

ACTUAL AREA: 4,193 S.F. (FOR B OCCUPANCY)

TOTAL: 4,193 S.F. < 36,000 S.F.

NOTES :

1. THE CODE ANALYSIS IS BASED ON A NON-SEPARATED OCCUPANCIES PER 2022 CBC, SECTION 508.3. NO SEPARATION IS REQUIRED BETWEEN OCCUPANCIES.
2. THERE WILL BE NO HAZARDOUS MATERIALS STORED OR USED WITHIN BUILDINGS THAT EXCEED 2022 CBC, TABLES 307.1(1) AND 307.1(2)
3. INTERIOR FINISH SHALL COMPLY WITH 2022 CBC, SECTION 803.1 FLAME SPREAD PROVISIONS.
4. RATED CORRIDOR IS NOT REQUIRED PER 2022 CBC, TABLE 1020.2: CORRIDOR FIRE-RESISTANCE RATING FOR OCCUPANCY GROUPS B WITH AUTOMATIC FIRE SPRINKLER SYSTEM IS 0 HOURS.

DOOR	OCCUPANT	EGRESS WIDTH REQUIRED *1	EGRESS WIDTH PROVIDED (CLEAR)
FONTANA TRAINING CENTER			
101A	54	10.8"	34"
105A	7	1.4"	34"
105E	43	8.6"	34"

*1. EGRESS WIDTH: 0.2 INCH PER OCCUPANT (2019 CBC, SECTION 1005.3.2)

EXITING ANALYSIS 1

CODE: 2022 CPC, TABLE A, TABLE 422.1 **GROUP:** "B"
PLUMBING OCCUPANT LOAD:
TBL. 4-1: 455 SF/"B" 150 = 4 (2M/2F) + 1,679 SF/"EB12" 50 = 34 (17M/17F) | TOTAL = 38 (19M/19F)

	MEN	WOMEN	UNISEX
WATER CLOSETS			
REQUIRED	1	2	-
PROVIDED	2	4	3
URINALS			
REQUIRED	1	-	-
PROVIDED	2	-	-
LAVATORIES			
REQUIRED	1	1	-
PROVIDED	3	3	3
SHOWERS			
REQUIRED	-	-	-
PROVIDED	1	1	2
DRINKING FTN.			
REQUIRED	-	-	1
PROVIDED	-	-	2
SERVICE SINKS			
REQUIRED	-	-	1
PROVIDED	-	-	1

*AREAS HAVE BEEN EXCLUDED FROM SQUARE FOOTAGE PER CPC TABLE A NOTE**.
DRINKING FOUNTAINS SHALL NOT BE REQUIRED FOR AN OCCUPANT LOAD OF 30 OR LESS.

PLUMBING FIXTURE ANALYSIS 2

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT — KELLY HERSHAM — C-19664 — re-lic 03/31/27 — STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
			REVISIONS

DRAWN: JM | CHECKED: KN
DATE: 05/21/2025 | SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

CODE ANALYSIS

DRAWING NUMBER: T2

BID SET_20250818

GENERAL NOTES 20 | GRAPHIC SYMBOLS 16 | SPACE USE 12 | AREA IDENTITY 8 | CODE ANALYSIS 4

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant Improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES
DIVISION 5.1 PLANNING AND DESIGN
SECTION 5.101 GENERAL

5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.
Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating od 9 oe 10 as regulated under 40 CFR Section 600 Subpart D.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g. Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupant, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly reliated to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section

5.106.5.3.1 EV capable spaces.
[N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:

1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)^2
0-9	0	0
10-25	2	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20% of total¹	25% of EV capable spaces¹

1. Where there Is Insufficient electrical supply.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count towards the total number of required EV capable spaces shown in column 2.

5.106.5.3.2 Electric vehicle charging stations (EVCS)
EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE in any combination of Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted If the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

The Installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.3 Use of automatic load management systems (ALMS).
ALMS shall be permitted for EVCS. When ALMS is Installed, the required electrical load capacity specified in Section 5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS.
When EVSE Is Installed, accessible EVSC shall be provided In accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.
Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N]
Construction shall comply with section 5.106.5.4.1 to facilitate future Installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE.
Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces.
[N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceways(s) or busway(s) and adequate capacity for transformers(s), service panels(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:
1. The transformer, main service equipment and subpanel shall meet the minimum power requirement In Table 5.106.5.4.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate on or more location(s) convenient to the planned offstreet loading space(s) reserved for medium-and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table 5.106.5.4.1
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium-and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.4.1.

TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
		3 or Greater	400
	Greater than 90,000	1 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
		3 or Greater	400
	Greater than 135,000	1 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
		3 or Greater	400
	Greater than 256,000	1 or Greater	400

5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 12

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 3	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING 3 (G)					
MAXIMUM ALLOWABLE GLARE RATING 3 (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING 3 (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING 3 (G)	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING 3 (G)	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy Code and Chapter 10 of the Calilfornia Administrative Code.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet U-value limits for "all other outdoor lighting"

5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1.See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1; *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
   Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 In Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.

5.106.12.2 Landscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions:
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 In Appendix A5 shall be permitted In whole or In part In lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY
SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG]. ***California Energy Code [DSA-SS].*** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION
SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER, [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

PBK
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FONTANA FIRE STATION No. 80 & TRAINING CENTER
SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLEY MEADHAM
C-10664
Exp. 03/31/27
STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN: | CHECKED:
DATE: 05/21/2025 | SCALE: NONE
PROJECT NUMBER: W2100100AR

2022 CAL-GREEN NON-RESIDENTIAL MANDATORY REQ.

DRAWING NUMBER: T3

BID SET_20250818

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y | N/A | RESPON. PARTY

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

5.303.3.4 Faucets and fountains.

5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray value
When installed, shall meet the requirements in the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2

STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

Y | N/A | RESPON. PARTY

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

TEST. A procedure to determine quantitative performance of a system or equipment

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated byweight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (*Act*).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

Y | N/A | RESPON. PARTY

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

Informational Notes:

1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 does not certify individuals to conduct functional performance tests or to adjust and balance systems.
2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

Y | N/A | RESPON. PARTY

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32° Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009)**.**

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O^3/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KEITH A. PEDERSEN
C-19664
exp. date 08/31/27
STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN: | CHECKED:
DATE: 05/21/2025 | SCALE: NONE
PROJECT NUMBER: W2100100AR

2022 CAL-GREEN NON-RESIDENTIAL MANDATORY REQ.

DRAWING NUMBER: T4

BID SET_20250918

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y | N/A | RESPON. PARTY

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT1,2

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

Y | N/A | RESPON. PARTY

TABLE 5.504.4.3 - CONT.

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS1	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet Systems.
All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,"Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS1

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD2	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

Y | N/A | RESPON. PARTY

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350)

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.4.7 Thermal Insulation
Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350),
See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.7.1 Verification of compliance.
Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

5.504.4.8 Acoustical ceiling and wall panels.
Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, " Version 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

5.506.3 Carbon dioxide (CO2) monitoring in classrooms.
(DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the *California Energy Code*, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:

1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows.
2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
3. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceeded 1,100ppm.
4. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration.
5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater.
6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

Y | N/A | RESPON. PARTY

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.1 Chain tethers. Chain tethers to fit over the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

30

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

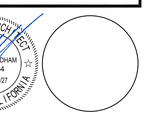
Note: Special Inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER
SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue



CONSULTANT

NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN:	CHECKED:
DATE: 05/21/2025	SCALE: NONE
PROJECT NUMBER: W2100100AR	

2022 CAL-GREEN NON-RESIDENTIAL MANDATORY REQ.

DRAWING NUMBER: T5

BID SET_20250818

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

FONTANA
CALIFORNIA

CITY OF FONTANA
CONDITIONS OF APPROVAL

PROJECT: Master Case No. (MCN) 22-137 **DATE:** February 6, 2024
Administrative Site Plan (ASP) No. 22-050

LOCATION: The project site is located on the northeast corner of Cherry Avenue and South Highland Avenue. (APN: 0228-021-46).

PLANNING DEPARTMENT:

1. The rights and privileges granted by this project shall not become effective, nor shall the Applicant commence the use for which this project is granted, until both of the following have occurred:
   A. All of the improvements, construction, alteration and other work set forth in this project have been completed and have been accepted by the City, as evidenced by the City's issuance of a Certificate of Occupancy (C of O) or other document evidencing the City's final inspection and acceptance of the work.
   B. All requirements of the Fontana Municipal Code shall be complied with.
   C. All other Conditions of Approval imposed by this project have been fulfilled.

2. This Administrative Site Plan shall become null and void two (2) years from the date of approval, unless the appropriate permits have been obtained and construction, defined as permit obtainment, commencement of construction of the primary building on site, and successful completion of the first Building and Safety Department inspection, has commenced within this period.

3. The applicant shall defend, indemnify, protect and hold harmless the City of Fontana or its agents, officers, attorneys and employees from any and all actual or alleged claims, actions or proceedings against the City of Fontana or its agents, officers, attorneys or employees to attack, set aside, void, annul or seek monetary damages arising out of any challenge to the applicant's proposed project or to any approvals of the Planning Commission and/or City Council concerning this project, including but not limited to actions challenging CEQA actions, permits, variances, plot plans, design plans, maps, licenses, and amendments. The City of Fontana shall promptly notify the applicant of any claim, action, or proceeding and the City of Fontana shall cooperate in the defense.

In the event of any such third-party action or proceeding, the City shall have the right to retain legal counsel. The applicant shall be responsible and reimburse the City for such legal fees and costs, in their entirety, including actual attorneys' fees, which may be incurred by the City in defense of such action or proceeding. This indemnification shall also include, but not be limited to, damages, fees and/or costs awarded against the City, if any, and cost of suit, attorneys' fees, and other costs, liabilities and expenses incurred in connection with such claim, action, or proceeding whether incurred by applicant, the City and/or any parties bringing such forth.

Except as required under applicable State and Federal law, the City of Fontana and the applicant acknowledge that the City would not have approved this project if the City were to be liable to applicant in damages under or with respect to all or any part of this application or this condition of approval. Accordingly, applicant shall not sue the City for damages or monetary relief for any matter arising from or related to this condition of approval. Applicant's sole and exclusive remedy shall be limited to declaratory/injunctive relief, mandate, and/or specific performance.

4. This project shall comply with all applicable provisions, regulations and development standards of the Fontana Zoning Code.

5. Historic Archaeological Resources
   A. Upon discovery of any tribal cultural or archaeological resources, cease construction activities in the immediate vicinity of the find until the find can be assessed. All tribal cultural and archaeological resources unearthed by project construction activities shall be evaluated by the qualified archaeologist and tribal monitor/consultant. If the resources are Native American in origin, interested Tribes (as a result of correspondence with area Tribes) shall coordinate with the landowner regarding treatment and curation of these resources. Typically, the Tribe will request preservation in place or recovery for educational purposes. Work may continue on other parts of the project while evaluation takes place.
   B. Preservation in place shall be the preferred manner of treatment. If preservation in place is not feasible, treatment may include implementation of archaeological data recovery excavation to remove the resource along the subsequent laboratory processing and analysis. All Tribal Cultural Resources shall be returned to the Tribe. Any historic archaeological material that is not Native American in origin shall be curated at a public, non-profit institution with a research interest in the materials, if such an institution agrees to accept the material. If no institution accepts the archaeological material, they shall be offered to the Tribe or a local school or historical society in the area for educational purposes.
   C. Archaeological and Native American monitoring and excavation during construction projects shall be consistent with current professional standards. All feasible care to avoid any unnecessary disturbance, physical modification, or separation of human remains and associated funerary objects shall be taken. Principal personnel shall meet the Secretary of the Interior standards for archaeology and have a minimum of 10 years'

experience as a principal investigator working with Native American archaeological sites in southern California. The Qualified Archaeologist shall ensure that all other personnel are appropriately trained and qualified.

6. The construction contractor shall use the following source controls at all times:
   A. Construction shall be limited to 7:00 am to 6:00 pm on weekday, 8:00 am to 5:00 pm on Saturdays, and no construction on Sundays and holidays unless it is approved by the Building Inspector for cases that are considered urgently necessary as defined in Section No. 18-63(7) of the Municipal Code.
   B. For all noise-producing equipment, use types and models that have the lowest horsepower and the lowest noise generating potential practical for their intended use.
   C. The construction contractor will ensure that all construction equipment, fixed or mobile, is properly operating (tuned-up) and lubricated, and that mufflers are working adequately.
   D. Have only necessary equipment onsite.
   E. Use manually-adjustable or ambient-sensitive backup alarms. When working adjacent to residential use(s), the construction contractor will also use the following path controls, except where not physically feasible, when necessary:
      1. Install portable noise barriers, including solid structures and noise blankets, between the active noise sources and the nearest noise receivers.
      2. Temporarily enclose localized and stationary noise sources.
      3. Store and maintain equipment, building materials, and waste materials as far as practical from as many sensitive receivers as practical.

7. All Conditions of Approval contained herein shall be incorporated into all applicable final construction plans and a copy of these conditions, signed by the property owner or legal representative, shall be placed on a sheet in the final building and grading plans prior to issuance of any building or grading permits.

8. The current development fees must be paid prior to issuance of building/construction permits.

9. Prior to the construction of any modifications, all structural and aesthetic changes to the project design must be requested and approved in writing by the Director of Planning or his/her designee.

10. Color combinations and color schemes for buildings approved under an Administrative Site Plan application shall not be modified or changed without prior approval of the original approving body by a revision to the original application. Minor hue color changes may be approved by the Director of Planning. The Director of Planning may refer minor hue color changes to the original approving body for consideration under a revision to the original application.

11. Exterior lighting compatible with the design of the building shall be provided for the parking lot. The lighting shall be directed and shielded so as to illuminate only the parking area and to avoid glare impacts on adjacent properties.

12. All parking stalls shall be clearly marked by double striping pavement painting. Parking stall sizes shall be measured from the mid-point between the striping. No parking spaces shall be designated in an industrial parking facility, except for disabled persons parking, van pool, carpool, or any other designated parking as required by law.

13. All signs shall be reviewed under a separate Design Review Sign application.

14. All roof-mounted equipment and ground mounted equipment shall be screened from view from adjacent properties and streets to the satisfaction of the Director of Planning.

15. All landscaping shall be healthy and maintained in a reasonable manner as determined by the Director of Planning or his/her designee.

16. The transformer shall be screened by a solid screen wall and mature, dense landscaping, and not visible from the public right-of-way.

17. Development fees and Planning Department final inspection fee must be paid prior to Certificate of Occupancy.

18. Applicant shall pay all applicable service fees pursuant to the City of Fontana Municipal Code prior to issuance of certificate of occupancy.

19. The applicant/developer/property owner shall provide up-lighting on the perimeter and up-light proposed trees to the satisfaction of the Director of Planning and his/her designee.

20. Adhere to the City standard of one foot candle minimum for all entrances, exits, pedestrian paths, parking lots, and activity areas. Reflect all light fixtures on the site plan. All areas shall be illuminated during all hours of darkness and all luminaries utilized shall be vandal-resistant fixtures. The type of lighting shall be fluorescent, white L.E.D.s or metal halide.

21. Incorporate an anti-graffiti coating onto the exterior of all proposed block walls to discourage graffiti.

22. After the fifteen (15) day appeal period, the applicant shall remove the notice of Filing sign(s) from the project site.

23. The applicant/developer shall comply with the mitigation measures identified in the CEQA Mitigation Monitoring and Reporting Program (MMRP) as approved by the Planning Commission.

24. Up lighting shall be provided throughout the project site to complement the architectural detail of the building and the landscaped areas, except where the building is adjacent to residential properties.

25. The applicant shall post a publicly visible sign on the project site with the telephone number and 24-hour point of contact for dust, noise and construction complaints. The 24-hour point of contact shall be available 24 hours a day, 7 days a week and have authority to commit additional assets to control dust, or respond to construction complaints after hours, on weekends and on holidays. Construction shall be limited to 7:00 am to 6:00 pm on weekdays, 8:00 am to 5:00 pm on Saturdays, and no construction on Sundays and Holidays.

26. The occupants of this facility shall comply with applicable provisions of local, state and federal laws and regulations with respect to noise, vibration, smoke, odors, fire and explosive hazards, including, but not limited to the City's adopted Hazardous Materials Management Plan and Industrial Wastewater/Discharge requirements.

Prior To Issuance of Grading Permit

27. All Conditions of Approval and Mitigation, Monitoring, and Reporting Program (MMRP) contained herein shall be incorporated into all applicable final construction plans and a copy of these conditions shall be placed on a sheet in the final building and grading plans prior to issuance of any building or grading permits.

BUILDING & SAFETY DEPARTMENT:

28. The applicant shall design the project to show compliance with the latest adopted edition of the following codes as applicable:
   A. California Building Code
   B. California Residential Code
   C. California Electrical Code
   D. California Mechanical Code
   E. California Plumbing Code
   F. California Energy Code
   G. California Fire Code
   H. California Green Building Standards Code

29. The applicant shall install an automatic fire suppression system, which is required in all new construction per FMC Chapter 11 Article II. Design and type of system shall be based upon the requirements of the Building Code, Fire Code and the requirements of the Fontana Fire Prevention District.

30. The applicant shall verify that any temporary building, trailer, commercial coach, etc. installed and/or used in connection with a construction project complies with FMC Chapter 5 Article XIV.

31. The applicant shall verify that all perimeter/boundary walls are designed and constructed so that the outer/exterior face of the wall is as close as possible to the lot line. In any case, the outer/exterior face of the wall shall be within two (2)

inches of the lot line. Distances greater than two (2) inches may be approved prior to construction by the Building Official on a case by case basis for extenuating circumstances.

32. The applicant shall comply with the following grading requirements:
   A. Grading plans shall be submitted to and approved by Building & Safety. The grading plans shall indicate all site improvements and shall indicate complete drainage paths of all drainage water run-offs.
   B. All drainage water shall drain via approved methods to an approved location, such as a public street, a public drainage system, etc.
   C. Drainage water shall not cross over a public sidewalk. Drainage water may, however, cross under a sidewalk if an approved drainage structure is used.
   D. A recorded drainage acceptance agreement is required from adjoining property(s) receiving flows from this property.
   E. No water course or natural drainage shall be obstructed.
   F. Minimum slope or grade for ALL drainage structures shall be one half (0.50) percent for concrete and one (1.0) percent for all other, or as otherwise approved by the Building Official.
   G. Drainage water shall not pass from an 'improved' type of drainage structure to an 'unimproved' type of drainage structure (e.g., concrete swale to a dirt swale) unless otherwise approved by the Building Official.
   H. A complete hydrology study using the latest edition of the San Bernardino County Flood Control Hydrology Manual, and complete hydraulic calculations justifying the size, slope, capacity, etc. of any and all drainage structures being utilized, shall be submitted to and approved by Building & Safety.
      The on site drainage system shall, as a minimum, be designed to handle the run off generated by a ten (10) year storm. Check for flooding of all on site structures (buildings) and all adjacent properties during a hundred (100) year storm.
   I. The grading plans shall, as a minimum, contain sections at all lot lines and/or permit boundary lines. These sections shall clearly indicate:
      1. The relationship between the proposed finished on site grade elevations and the existing adjacent property grade elevations (Indicate any additional drainage water that may come from an adjacent property.); and
      2. The ground cover/finished surface material being proposed (e.g., type of pavement, plant material, etc.); and
      3. All proposed drainage structures; and
      4. Any proposed and/or required walls or fencing.

33. The applicant shall verify that all exterior lighting shall be oriented, directed, and/or shielded as much as possible so that direct illumination does not infringe onto adjoining properties.

PRIOR TO ISSUANCE OF BUILDING/CONSTRUCTION PERMITS

34. The following items (as applicable) shall be completed by the applicant and submitted to Building & Safety prior to the issuance of building permits for this project:
   A. Precise grading plans shall be approved
   B. Rough grading completed
   C. Compaction certification
   D. Pad elevation certification
   E. Rough grade inspection signed off by a City Building Inspector

SPECIFIC CONDITIONS

35. Applicant shall provide agreement with MWD allowing construction to take place on their easement.

SPECIFIC COMMENTS

36. Please be aware that a Construction Waste Management Plan (CWMP) will be required at time of plan check submittal. For more information regarding waste diversion, please contact Burrtec Waste at (909) 889-0911.

ENGINEERING DEPARTMENT:

37. The Project shall be served by the City's sanitary sewer system, all sewer facilities shall be constructed in accordance with the City Standards. Main trunk sewer line shall be in accordance with master sanitary sewer plan or as approved by the City Engineer.

38. The Applicant shall obtain design and plan approval from all utility providers having jurisdiction over the on-site and off-site utilities. Completion of all undergrounding of on-site and off-site utilities is required by Section 27-52 of the City Municipal Code and in accordance with plans and specifications approved by the City Engineer.

39. The Applicant shall maintain all improvements and utilities within the public right-of-way, including street sweeping, prior to issuance of final certificate of occupancy by the City.

PRIOR TO ISSUANCE OF GRADING PERMIT

40. The Applicant shall submit and gain approval of a complete Water Quality Management Plan report in accordance with the County of San Bernardino Technical Guidance Document and latest template.

41. The Applicant shall submit and gain approval of a final drainage study prepared in accordance with the County of San Bernardino Hydrology Manual and Fontana Master Plan of Drainage.

PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS

42. The Applicant shall record right-of-way dedications and easements as required for the development.

43. The Applicant shall submit engineered improvement plans and obtain full approval. All required public improvements, including but not limited to driveways, sewer laterals, striping, signs, and any required traffic control and/or detour plans. All plans shall conform to City Standards and Specifications, and as approved by the City Engineer.

PRIOR TO ISSUANCE OF FINAL CERFITICATE OF OCCUPANCY

44. The Applicant/Engineer to provide the City of Fontana with As Built/Record Drawings for all public improvement plans.

45. The Applicant/Engineer shall provide centerline ties to the City of Fontana reflecting proper setting of all survey monuments within the project limits and replace any existing survey monuments damaged or removed during construction.

46. The Applicant/Engineer shall set survey monuments as required by the map and corner records must be recorded with the County.

47. The Applicant/Landscape Architect shall provide a "Landscape Certificate of Compliance" certifying that the work has been designed, installed, and will be maintained in accordance with the City of Fontana's Model Water Efficiency Landscape Ordinance (Ordinance 1743, FCC Section 28).

48. All sewers shall be video inspected by applicant/contractor. Sewer video shall include clean-out connection, clean-out to lateral segment, lateral, and main line. Contractor performing the video inspection must have a NASSCO PACP, LACP, and MACP certification. Applicant shall provide a copy of the video on DVD or flash drive to inspection staff with an accompanying full report. Videos to be inspected and approved by City Inspector. If removal and replacement of any utility is required, a subsequent video of the repair will be required. If a TCO (Temporary Certificate of Occupancy) is required a full video inspection will be required as well at that time.

49. All storm drains shall be video inspected by applicant/contractor. Storm drain video shall include main lines and laterals. Applicant shall provide a copy of the video on DVD or flash drive to inspection staff. Videos to be inspected and approved by City Inspector. If removal and replacement of any utility is required, a subsequent video of the repair will be required.

50. The Applicant/Engineer of Record shall submit a conforming copy of the recorded Memorandum of Agreement for the Water Quality Management Plan and Storm Water Best Management Practice transfer. The Access, Maintenance, and the WQMP Certification for BMP Completion must be submitted to the City Project Engineer.

51. Slurry seal roads effected by the development as directed by the inspector. Slurry seal limits may extend past the project frontage to address existing

striping/pavement markings that conflicts with new striping/pavement markings, repair trenches, and other areas as determined by the inspector.

FIRE DEPARTMENT:

52. *Jurisdiction:* The above referenced project is under the jurisdiction of the Fontana fire Protection District (herein "Fire Department"). Prior to any construction occurring on any parcel, the applicant shall contact the Fire Department for verification of current fire protection requirements. All new construction shall comply with the current California Fire Code requirements and all applicable statutes, codes, ordinances, and standards of the Fire Department.

53. *Fire Access Road Width:* Prior to map recordation, all fire access roadways shall be designed to meet the requirements for this development and shall be approved by the Fire Department. All buildings shall have access provided by approved roads, alleys, and private drives with a minimum twenty-six (26) foot unobstructed width and vertically to fourteen (14) feet six (6) inches in height. Buildings three (3) stories in height or more shall have a minimum access of thirty (30) feet unobstructed width and vertically to fourteen (14) feet six (6) inches in height. California Fire Code Chapter 5 & SBCoFD Standard A-1.

54. *Turnaround:* An approved turnaround shall be provided at the end of each roadway one hundred and fifty (150) feet or more in length. Cul-de-sac length shall not exceed six hundred (600) feet; all roadways shall not exceed a 12% grade and have a minimum of nineteen (19) foot inside radius and a forty-five (45) foot outside radius for all turns. California Fire Code Chapter 5 & SBCoFD Standard A-1.

55. *Street Signs:* Approved temporary or permanent street signs shall be installed throughout the project prior any combustible materials being placed on the construction site. California Fire Code Chapter 5 & SBCoFD Standard A-2.

56. *Fire Lanes:* The applicant shall submit a site plan to the Fire Department for review and approval of all proposed signage and striping for all fire access roadways. All curbs adjacent to fire lanes shall be painted red and "No Parking, Fire Lane" signs shall be installed on public and private roads in accordance with approved standards. SBCoFD Standard A-2.

57. *Water System Commercial:* Prior to map recordation or lot line adjustment, all water supply systems shall be designed to meet the required fire flow for this development and shall be approved by the Fire Department. The required fire flow shall be determined by using Appendix BB of the California Fire Code. A minimum of one new six (6) inch fire hydrant assembly with two (2) two and one half (2 1/2) inch and one (1) four (4) inch outlet (4"x2.5"x2.5") shall be provided. All fire hydrants shall be spaced no more than three hundred (300) feet apart as measured along vehicular travel-ways. California Fire Code Chapter 5 & SBCoFD Standard W-2. The Fire Flow for this project shall be: 2125 GPM for a two-hour duration at 20 psi residual operating pressure. Fire Flow is based on a 24,577 Square Foot structure.

58. *Hydrant Marking:* Blue reflective pavement markers indicating fire hydrant locations shall be installed as specified by the Fire Department. SBCoFD Standard W-2.

59. *Water Improvement Plan:* The applicant shall submit "Water Improvement Plans" to Fontana Fire Prevention. W.I.P. to include site plan, existing & proposed PUBLIC fire hydrant locations, building construction type, largest building square footage details, lot size detail in square feet, and description of what is being constructed. Once approved by Fire Department, applicant will provide stamped/approved W.I.P to water purveyor for their construction needs. ON-SITE PRIVATE FIRE WATER SUPPLY SHALL BE INSPECTED AND IN WORKING CONDITION PRIOR TO PLACING COMBUSTIBLE MATERIALS ON THE JOBSITE. California Fire Code Chapter 5.

60. *Combustible Protection:* Prior to combustibles being placed on the project site an approved paved roadway providing fire access and fire hydrants providing an acceptable fire flow shall be installed. California Fire Code Chapter 5.

61. *Fire Sprinkler-NFPA #13:* An automatic fire sprinkler system complying with NFPA 13 and Fire Department standards is required. A fire sprinkler contractor shall submit three (3) sets of detailed plans to the Fire Department for review and approval. The plans shall include hydraulic calculations and manufacturer specification sheets. The required fees shall be paid at the time of plan submittal. California Fire Code Chapter 9 & SBCoFD Standard F-1.

62. *Fire Alarm, Waterflow Monitoring:* A water flow monitoring fire alarm system complying with the California Fire Code, NFPA and all applicable codes is required for fire sprinkler systems with twenty (20) sprinkler heads or more. A fire alarm contractor shall submit three (3) sets of detailed plans to the Fire Department for review and approval. The required fees shall be paid at the time of plan submittal. California Fire Code Chapter 9, NFPA 72 & SBCoFD Standard F-5.

63. *Fire Extinguishers:* Hand portable fire extinguishers are required. The location, type, and cabinet design shall be approved by the Fire Department. California Fire Code Chapter 9.

64. *Commercial Addressing:* Commercial, industrial, and multi-family developments of 100,000 sq. ft or less shall have the street address installed on the building with numbers that are a minimum eight (8) inches in height and with a one (1) inch stroke. The street address shall be visible from the street. During the hours of darkness, the numbers shall be electrically illuminated (internal or external). Where the building is two hundred (200) feet or more from the roadway, additional non-illuminated contrasting six (6) inch numbers shall be displayed at the property access entrances. California Fire Code Chapter 5 & SBCoFD Standard B-1

65. *Key Box:* An approved Fire Department key box is required. The key box shall be provided with a tamper switch and shall be monitored by a Fire Department

approved central monitoring service. California Fire Code Chapter 5 & SBCoFD Standard A-4

66. *Security Gates:* In commercial, industrial, and multi-family complexes, all swing gates shall have an approved fire department Knox Lock. Where an automatic electric security gate is used, an approved Fire Department override switch is required. California Fire Code Chapter 5 & SBCoFD Standard A-3

67. *Material Identification Placards:* The applicant shall install, in all locations deemed appropriate by the Fire Department, approved material identification placards on the outside of all buildings and/or storage tanks that store hazardous or flammable materials. Additional placards shall be required inside the buildings when chemicals are segregated into separate areas. California Fire Code Chapter 50 & NFPA 704.

68. *Secondary Access:* The development shall have a minimum of two (2) points of vehicular access during each phase of construction for fire and emergency access purposes and for evacuation routes. SBCoFD Standard A-1

69. An approved spark arrestor is required. Every chimney that is used in conjunction with any fireplace or any heating appliance in which solid or liquid fuel are used, shall have an approved spark arrestor visible from the ground that is maintained in conformance with Fire Department requirements. California Fire Code Chapter 6.

PUBLIC WORKS – ENVIRONMENTAL CODE COMPLIANCE:

70. Complete an Industrial Wastewater Discharge Permit application prior to permit final or C of O approval (FMC 23-218). Contact: Sal Romero (909) 428-8809.

71. Any facility proposing the discharge of non-domestic wastewater to the sanitary sewer shall demonstrate in the plan check process, through the submittal of detailed plans showing pretreatment facilities and operating procedures, that the user will pretreat wastewater to a level required to comply with FMC 23-136 - Concentration Limitations and/or FMC 23-138 – Applicability of Federal Categorical Pretreatment Standards, and/or any other applicable standard as established. (FMC 23-186)

72. All wastes from floor drains, sinks, waste container wash racks, mop sinks, and trench drains shall be directed through a two-compartment gravity separation sand/oil interceptor in accordance with section 23-190. All domestic wastewaters from restrooms, showers, and drinking fountains shall be kept separate until the previously specified wastes have passed through the interceptor. The sand/oil interceptor shall have a minimum fluid capacity of 750 gallons, or, sized as required by the California Plumbing Code most recently adopted by the City of Fontana.

73. All wastes from kitchen drains and sink shall be directed through a gravity fed 100 lb./50 gal grease trap in accordance with section 23-190.

74. All interceptors access risers shall be equipped with a minimum 24-inch clear round opening.

75. All interceptors shall be equipped with a sample chamber located at the downstream end of the final interceptor unit. The sample chamber shall have a minimum 24-inch clearance with a minimum 24-inch clear round opening and a 47-inch height minimum for the temporary installation of the city's portable automatic sampling equipment.

76. Interceptor and sample box manufacturer spec sheet shall be included in the plan submittal. Equipment must be installed to match the approved design plan specifications. Any deviation in manufacturer, type, location, layout, or design will require prior approval by the Environmental Section through the plan check process. Equal or equivalent pretreatment equipment installations will not be accepted without prior approval through the plan check process.

END OF CONDITIONS OF APPROVAL

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER
SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLY HERSHMAN
C-19664
Ve.Im 03/31/27
STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
4			REVISIONS

DRAWN: CHECKED:
DATE: 05/21/2025 SCALE: NONE
PROJECT NUMBER: W2100100AR

CONDITIONS OF APPROVAL

DRAWING NUMBER: T6

BID SET_20250818

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT

NORTHEAST CORNER OF CHERRY AVENUE AND SOUTH HIGHLAND AVENUE

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THESE PLANS, THE CITY OF FONTANA STANDARD PLANS, THE CONTRACT PROVISIONS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN BOOK"). ALL REFERENCE SPECIFICATIONS AND STANDARDS SHALL BE THE LATEST EDITION UNLESS OTHERWISE NOTED.
2. WHEN A TECHNICAL CONFLICT IS FOUND TO EXIST IN THE CONTRACT DOCUMENTS THAT CAN NOT BE RESOLVED BY REFERENCE TO PRECEDENCE PROVISIONS IN THE "GREEN BOOK", THE CONTRACTOR SHALL IMMEDIATELY REPORT SAID CONFLICT TO THE CITY ENGINEER FOR RESOLUTION.
3. ALL MATERIALS AND METHODS ARE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
4. CONSTRUCTION PERMITS SHALL BE OBTAINED FROM THE CITY OF FONTANA COMMUNITY DEVELOPMENT DEPARTMENT, ENGINEERING DIVISION PRIOR TO THE START OF ANY WORK. INSPECTION COORDINATION SHALL BE REQUESTED AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY WORK IN PUBLIC RIGHT-OF-WAY WITHIN THE CITY LIMITS. CALL (909) 350-7610.
5. THE CONTRACTOR SHALL CONFORM TO ALL TRAFFIC CONTROL POLICIES, METHODS AND PROCEDURES DESCRIBED IN THE STATE OF CALIFORNIA MANUAL OF TRAFFIC CONTROLS, LATEST NON - METRIC EDITION UNLESS OTHERWISE DIRECTED BY THE CITY TRAFFIC ENGINEER.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN BARRICADES, DELINEATORS OR OTHER TRAFFIC CONTROL DEVICES AT ALL TIMES.
7. THE CONTRACTOR SHALL OBTAIN A PERMIT TO PERFORM EXCAVATION OR TRENCH WORK FOR TRENCHES 5 FEET OR GREATER IN DEPTH FROM THE CALIFORNIA STATE DIVISION OF INDUSTRIAL SAFETY.
8. THE WALLS AND FACES OF ALL EXCAVATIONS GREATER THAN FIVE (5) FEET IN DEPTH SHALL BE GUARDED BY SHORING, SLOPING OF THE GROUND OR OTHER APPROVED MEANS PURSUANT TO THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. TRENCHES LESS THAN FIVE (5) FEET SHALL ALSO BE GUARDED WHEN THE POTENTIAL EXISTS FOR GROUND MOVEMENT.
9. NO MATERIAL OR EQUIPMENT SHALL BE STORED IN THE PUBLIC RIGHT OF WAY WITHOUT OBTAINING A SEPARATE PERMIT FOR THAT PURPOSE.
10. THE LOCATIONS OF UTILITIES SHOWN HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION, HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IN THE FIELD, THE TRUE LOCATION AND ELEVATION OF ANY EXISTING UTILITIES, AND TO EXERCISE PROPER PRECAUTION TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT 1-800-227-2600 TWO WORKING DAYS BEFORE EXCAVATION .
11. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH ALL UTILITY COMPANIES INCLUDING, BUT NOT LIMITED TO, GAS, TELEPHONE, ELECTRIC, CABLE TELEVISION, LANDSCAPING, LANDSCAPE IRRIGATION, DOMESTIC WATER, RECLAIMED WATER, SEWER, STORM DRAIN, FLOOD CONTROL AND CALTRANS. ALL UTILITY COMPANIES SHALL BE GIVEN TWO WORKING DAYS NOTICE PRIOR TO WORK AROUND THEIR FACILITIES.
12. THE CONTRACTOR SHALL NOT OPERATE ANY FIRE HYDRANT OR WATER MAIN VALVES WITHOUT APPROPRIATE AGENCY AUTHORIZATION. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE WATER COMPANY FOR VALVE OPERATION AND WATER REQUIREMENTS.
13. STATIONING REFERS TO THE CENTERLINE OF STREETS EXCEPT WHERE OTHERWISE NOTED.
14. ADEQUATE CONSTRUCTION CONTROL STAKES SHALL BE SET BY THE ENGINEER TO ENABLE THE CONTRACTOR TO CONSTRUCT THE WORK TO THE PLAN GRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF BENCHMARKS AND CONSTRUCTION CONTROL STAKING DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL NOT DISTURB EXISTING SURVEY MONUMENTS, MONUMENT TIES OR BENCH MARKS WITHOUT PRIOR NOTIFICATION TO THE CITY ENGINEER.
16. REMOVAL AND REPLACEMENT OF EXISTING SURVEY CONTROL, INCLUDING SURVEY MONUMENTS, MONUMENT TIES AND BENCH MARKS, SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR. SURVEY MONUMENTS THAT WILL BE DESTROYED AS A RESULT OF THIS CONSTRUCTION SHALL BE REPLACED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER ONE WEEK PRIOR TO CONSTRUCTION SO THAT TIES TO MONUMENTS CAN BE ESTABLISHED FOR LATER REPLACEMENT OF THE MONUMENT.
17. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR LOCAL RESIDENTS AND BUSINESSES AT ALL TIMES. A MINIMUM 12 FOOT LANE SHALL BE MAINTAINED AT ALL TIMES IN THE CONSTRUCTION AREA FOR RESIDENTS AND EMERGENCY VEHICLES.
18. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFECTIVE MEANS OF DUST CONTROL, INCLUDING ADEQUATE WATERING, AT ALL TIMES.
19. THE CONTRACTOR SHALL NOT CAUSE ANY EXCAVATED MATERIAL, MUD, SILT OR DEBRIS TO BE DEPOSITED ONTO PUBLIC OR PRIVATE PROPERTY ADJACENT TO THE RIGHT OF WAY DURING CONSTRUCTION WITHOUT PRIOR WRITTEN APPROVAL
20. NO TRENCH BACKFILL SHALL TAKE PLACE WITHOUT PRIOR APPROVAL OF THE CITY INSPECTOR.
21. A GEOTECHNICAL ENGINEER SHALL CERTIFY ALL BACKFILL COMPACTION. FAILURE TO OBTAIN THE REQUIRED DENSITY SHALL REQUIRE RE-WORKING OF THAT PORTION OF THE WORK UNTIL THE SPECIFIED DENSITY IS OBTAINED.
22. CARE SHOULD BE TAKEN TO PREVENT GRADES, DITCHES, AND SWALES FROM UNDERMINING STREET IMPROVEMENTS. UPON INSPECTION OF THE SITE, THE CITY ENGINEER MAY REQUIRE TEMPORARY NON-ERODABLE SWALES ENTERING OR LEAVING IMPROVEMENTS.
23. ALL EXPOSED CONCRETE SURFACES SHALL CONFORM IN GRADE, COLOR AND FINISH TO MATCH EXISTING CONCRETE.
24. IF SEWER CONSTRUCTION IS TO BE DONE IN PHASES, THE CONTRACTOR SHALL PROVIDE A TERMINAL CLEANOUT AT THE PHASE BOUNDARY, NOT MORE THAN 150 FEET FROM THE DOWNSTREAM MANHOLE. SEE CITY OF FONTANA STANDARD DETAIL FOR TERMINAL CLEANOUT.
25. SANITARY SEWER LINES SHALL BE CONSTRUCTED OF BELL AND SPIGOT OR BAND SEAL TYPE VITRIFIED CLAY PIPE (V.C.P.) EXTRA STRENGTH CLASS AND SHALL CONFORM TO THE PROVISIONS OF THE ASTM DESIGNATION C700 FOR V.C.P.
26. NO OPEN TRENCH SHALL BE ALLOWED AT THE END OF THE DAY WITHOUT PRIOR APPROVAL OF THE CITY ENGINEER.
27. SHORT VCP STUBS WITH FLEXIBLE COMPRESSION JOINTS SHALL BE USED AT MANHOLE WALLS TO ALLOW FOR MINOR DEFLECTIONS IN ALIGNMENT.
28. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXPOSE EXISTING FACILITIES, AND VERIFY ELEVATION AND LOCATION OF CONNECTIONS. CITY APPROVAL OF CONNECTIONS TO EXISTING FACILITIES DOES NOT IMPLY CORRECTNESS OF ELEVATIONS OR LOCATIONS SHOWN ON THE PLANS.
29. ALL 4" HOUSE LATERALS SHALL BE INSTALLED AT A 2% MINIMUM GRADE UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
30. TERMINATE ALL 4" HOUSE SEWER LATERALS 3 FEET INSIDE THE LOT WITH A PLUG 12" BELOW THE GROUND SURFACE. WHEN PUBLIC UTILITY EASEMENTS EXIST NEXT TO THE STREET RIGHT OF WAY, THE LATERAL SHALL TERMINATE 3 FEET INSIDE THE LOT AS MEASURED FROM THE UTILITY EASEMENT.
31. THE SEWER CONTRACTOR SHALL STAMP AN "S" IN THE FACE OF THE CURB AT THE LOCATION OF THE SEWER LATERAL.
32. IF EXISTING UTILITIES OR ANY OTHER FACILITIES CONFLICT WITH THE PROPOSED IMPROVEMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND ALL AFFECTED AGENCIES IMMEDIATELY.
33. NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAVE BEEN PLACED, INSPECTED AND APPROVED.
34. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED, TESTED AND APPROVED PRIOR TO PAVING OF STREETS.
35. APPROVED SOIL STERILANT IS REQUIRED UNDER ALL NEW ASPHALT PAVEMENT PRIOR TO PLACEMENT.
36. ALL MANHOLES, CLEANOUT FRAMES, COVERS AND VALVE BOXES SHALL BE RAISED TO FINISHED GRADE BY THE PAVING CONTRACTOR UPON COMPLETION OF PAVING.
37. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL RESTORE ALL SIGNING, STRIPING, BARRICADES, AND OTHER TRAFFIC CONTROL DEVICES TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
38. AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER OF RECORD. WHO SHALL PROVIDE RECORD DRAWINGS TO THE CITY ENGINEER.

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

UTILITY CONTACTS

ELECTRICAL
SOUTHERN CALIFORNIA EDISON COMPANY — (909) 820-5598 – UNDERGROUND
300 N. PEPPER AVENUE — (909) 875-5100 – TRANSMISSION
RIALTO, CA 92376 — (213) 637-1233 – PIPELINES
(909) 357-6505 – DISTRIBUTION

NATURAL GAS
SOUTHERN CALIFORNIA GAS COMPANY
1981 W. LUGONIA AVENUE — (909) 335-7967
REDLANDS, CA 92374 — EMERGENCIES: (800) 427-2200

CABLE TELEVISION
TIME WARNER CABLE — JAMES MOCK
1500 AUTO CENTER DR. — CONSTRUCTION MANAGER-ZONE 9
ONTARIO, CA. 91761 — (909) 975-3439
james.mock@twcable.com

DOMESTIC WATER
FONTANA WATER COMPANY — (909) 822-2201
15966 ARROW ROUTE
FONTANA, CA 92335

TELEPHONE
AT&T CALIFORNIA — (714) 963-7964
22311 BROOKHURST STREET, STE. 203
HUNTINGTON BEACH, CA 92646

SANITARY SEWER
CITY OF FONTANA — (909) 350-7610
PUBLIC WORKS-ENGINEERING
8353 SIERRA AVENUE
FONTANA, CA. 92335

STORM DRAIN
CITY OF FONTANA — (909) 350-7610
PUBLIC WORKS-ENGINEERING
8353 SIERRA AVENUE
FONTANA, CA. 92335

TRAFFIC SIGNAL
CITY OF FONTANA — (909) 350-7610
TRAFFIC DIVISION
8353 SIERRA AVENUE
FONTANA, CA. 92335

WATER QUALITY MANAGEMENT PLAN NOTE

A CONSTRUCTION PERMIT FOR STORMWATER QUALITY DEVICES SHALL BE OBTAINED FROM THE CITY OF FONTANA DEVELOPMENT SERVICES, DEPARTMENT OF ENGINEERING PRIOR TO START OF ANY WORK. A PRE-GRADING MEETING SHALL BE HELD AND INSPECTION COORDINATION SHALL BE REQUESTED AT LEAST TWO DAYS PRIOR TO THE START OF ANY WORK.

REFERENCE WQMPPC25-00027

ENGINEER'S ESTIMATED ONSITE EARTHWORK QUANTITIES

1. RAW CUT (INCLUDES 600 C.Y. BUILDING, WALL FOOTING EXCAVATION AND UTILITY SPOILS).	12,800 CU. YDS.
2. OVEREXCAVATE DOWN TO BUILDING BOTTOM OF EXCAVATED PLANE (B.E.P.) ELEVATION. (11,200 S.F.)	1,850 CU. YDS.
3. OVEREXCAVATE UPPER 12 INCHES UNDER THE HARDSCAPE AND WALLS. (135,600 S.F.)	5,000 CU. YDS.
4. TOTAL CUT	19,650 CU. YDS.
5. RAW FILL	140 CU. YDS.
6. SHRINKAGE OF RAW FILL (NO. 5 ABOVE) USING AN ASSUMED 10% SHRINKAGE LOSS	10 CU. YDS.
7. RECOMPACTION OF OVEREXCAVATED SOIL (NO'S 2 AND 3 ABOVE) USING AN ASSUMED 10% SHRINKAGE LOSS	7,500 CU. YDS.
8. TOTAL COMPACTED FILL	7,650 CU. YDS.
9. ESTIMATED AMOUNT OF SOIL TO EXPORT FROM THE SITE.	12,000 CU. YDS.

NOTE:
THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THEIR OWN EARTHWORK QUANTITIES FOR BIDDING PURPOSES. THE QUANTITIES SHOWN HEREON ARE THE ENGINEER'S ESTIMATE ONLY AND ARE FOR THE SOLE PURPOSE OF DETERMINING PLAN CHECK AND PERMIT FEES.

NOTE:
ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LEIGHTON CONSULTING, INC. MAY 18, 2022 GEOTECHNICAL EXPLORATION RECOMMENDATIONS PREPARED UNDER THE DIRECTION OF PRINCIPAL ENGINEER JASON D. HERTZBERG (GE 2711) UNDER THEIR PROJECT NUMBER 13491.001.

INDEX SHEET

NO.	SHEET TITLE
C1	GRADING, DRAINAGE, STORM DRAIN, AND UTILITY PLAN TITLE SHEET
C2	DETAIL SHEET
C3	TOPOGRAPHY SURVEY MAP
C4	DEMOLITION PLAN
C5.0	GRADING AND DRAINAGE PLAN
C5.1	GRADING AND DRAINAGE PLAN DETAIL SHEET
C6	UTILITY PLAN
C7	EROSION CONTROL PLAN TITLE SHEET
C8	EROSION CONTROL PLAN
C9	CITY STANDARD DRAWINGS
C10	SGVWC (FWC) STANDARD DRAWNGS
C11	SITE CROSS-SECTIONS
C12	WQMP SITE PLAN

CITY BUILDING AND SAFETY DEPARTMENT NOTES

1. A PAD CERTIFICATION, A COMPACTION REPORT AND ANY OTHER REQUIRED DOCUMENTS SHALL BE PROVIDED BY THE SUPERVISING CIVIL ENGINEER AND GEOTECHNICAL ENGINEER TO THE BUILDING INSPECTOR AT ROUGH GRADING INSPECTION.
2. BUILDER SHALL PROVIDE THE BUILDING INSPECTOR WITH A FINAL PRECISE GRADING CERTIFICATE FROM THE SUPERVISING CIVIL ENGINEER DURING CONSTRUCTION PRIOR TO BUILDING'S FINAL INSPECTION.
3. THIS PROJECT SHALL BE DESIGNED AS PER THE FOLLOWING CODES:
   - 2022 CALIFORNIA BUILDING CODE AND ITS APPENDICES AND STANDARDS
   - 2022 CALIFORNIA PLUMBING CODE AND ITS APPENDICES AND STANDARDS
   - 2022 CALIFORNIA GREEN BUILDING CODE AND ITS APPENDICES AND STANDARDS
   - CITY OF FONTANA ORDINANCES AND REGULATIONS.
4. REFER TO ARCHITECTURAL SHEETS FOR A LIST OF THE PROJECT CITY ENTITLEMENT CONDITIONS OF APPROVAL.

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS HAVE BEEN LOCATED FROM FIELD SURVEY AND AS BUILT INFORMATION FURNISHED TO THE SURVEYOR BY THE UTILITY COMPANIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

CONSTRUCTION STAKING NOTE

ALL PROPOSED UNDERGROUND AND SURFACE SITE IMPROVEMENTS AND STRUCTURES SHALL HAVE CONSTRUCTION STAKES SET BY A CALIFORNIA LICENSED LAND SURVEYOR PROVIDING HORIZONTAL AND VERTICAL CONTROL FOR THE GENERAL CONTRACTOR TO BUILD FROM.

CITY ENCROACHMENT NOTE

CONTRACTOR TO OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY AND MWD PRIOR TO COMMENCING ANY WORK WITHIN THE ADJACENT PUBLIC RIGHT OF WAY, PUBLIC UTILITY OR ANY ONSITE CITY EASEMENT.

GENERAL SITE INFORMATION

GROSS ACREAGE:
SITE = 98,855 SQUARE FEET OR 2.26 ACRES
MWD EASEMENT = 69,504 SQUARE FEET OR 1.59 ACRES

EXISTING ZONING / SPECIFIC PLAN:
RMU (REGIONAL MIXED USE) / WESTGATE (WESTGATE EAST COMMUNITY AREA) – MU-1

PROPOSED (SITE) LOT COVERAGE	PHASE 01	PHASE 02
BUILDINGS (FOOTPRINT):	7,523 S.F. (7.6%)	10,211 S.F. (10.3%)
LANDSCAPING:	17,079 S.F. (17.3%)	TBD S.F. (TBD%)
PAVED AREA:	74,253 S.F. (75.1%)	TBD S.F. (TBD%)
TOTAL:	98,855 S.F. (100%)	98,855 S.F. (100%)

PROPOSED (MWD EASEMENT) LOT COVERAGE	PHASE 01	PHASE 02
LANDSCAPING:	8,616 S.F. (12.5%)	
CONCRETE PAVED AREA:	6,219 S.F. (8.9%)	
ASPHALT PAVED AREA:	54,669 S.F. (78.6%)	
TOTAL:	69,504 S.F. (100%)	

PROPOSED BUILDING AREA	PHASE 01	PHASE 02
SINGLE-STORY TRAINING CENTER:	4,193 S.F. (37.5%)	
SIX-STORY TRAINING TOWER:	7,000 S.F. (62.5%)	
TWO-STORY FIRE STATION:		14,663 S.F. (100%)
TOTAL:	11,193 S.F. (100%)	14,663 S.F. (100%)

PROJECT SCOPE

PHASE 01:

1. NEW 4,193 S.F. SINGLE-STORY TRAINING CENTER WITH PUBLIC LOBBY/RESTROOMS, OFFICES, MALE/FEMALE RESTROOM, LOCKERS AND SHOWERS, TRAINING ROOM, STORAGE ROOMS AND SUPPORT SPACES.
2. NEW 7,000 S.F. SIX-STORY TRAINING TOWER, BY OTHERS.
3. NEW SITE IMPROVEMENTS CONSISTING OF 6' TALL SITE PERIMETER CMU WALLS, 6' TALL SITE PERIMETER TUBE STEEL FENCING, SLIDING SECURITY GATE, VISITORS/CREW PARKING AREA, LANDSCAPING, PRIVATE FIRE HYDRANTS, ELECTRICAL TRANSFORMER, LIGHT STANDARDS, FLAG POLE, MONUMENT SIGN AND COVERED TRASH ENCLOSURE.

PHASE 02:

4. NEW 14,663 S.F. TWO-STORY FIRE STATION WITH 9 CREW DORMITORIES, 5 CREW BATHROOMS, DAY ROOM, DINING ROOM, KITCHEN, EXERCISE ROOM, CREW OFFICE AREAS, VARIOUS APPARATUS SUPPORT SPACES, 3-BAY SINGLE-DEEP APPARATUS ROOM AND ATTACHED 1-BAY SINGLE-DEEP BC APPARATUS ROOM.
5. NEW SITE IMPROVEMENTS CONSISTING OF LANDSCAPING, EMERGENCY GENERATOR, RESPONSE/RETURN DRIVEWAYS, AND OFF-SITE STREET IMPROVEMENTS.

THE FOLLOWING WORK AND/OR ANCILLARY STRUCTURES ARE INCLUDED WITH SCOPE OF WORK, MAY REQUIRE ADDITIONAL PERMITS, VERIFY WITH CITY:
- ELECTRICAL WORK
- MECHANICAL WORK
- PLUMBING WORK
- RETAINING WALLS/GRADING
- LIGHT STANDARDS
- TRASH, GENERATOR, AND ELECTRICAL TRANSFORMER ENCLOSURES
- CMU PERIMETER WALLS
- FLAG POLE
- BUILDING SIGN(S)
- MONUMENT SIGN

PROPERTY LEGAL DESCRIPTION

THAT PORTION OF THE NORTHWEST ONE-QUARTER OF SECTION 35, TOWNSHIP 1 NORTH, RANGE 6 WEST, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 35, THENCE ALONG THE NORTH LINE OF SAID SECTION 35, SOUTH 89°55'12" EAST, 950.74 FEET TO THE NORTHWESTERLY LINE OF THE LAND CONVEYED IN A DEED TO THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA, RECORDED JULY 31, 1991 AS INSTRUMENT NO. 91-290525 THENCE ALONG SAID NORTHWESTERLY LINE SOUTH 44°23'30" WEST, 579.12 FEET TO THE TRUE POINT OF BEGINNING; THENCE CONTINUING SOUTH 44°23'30" WEST, 663.27 FEET; THENCE NORTH 43°47'30" WEST, 31.95 FEET; THENCE NORTH 00°01'56" EAST, 363.73 FEET; THENCE NORTH 79°49'49" EAST, 493.66 FEET, TO THE TRUE POINT OF BEGINNING.

APN 0228-021-46

RECORD OWNERS

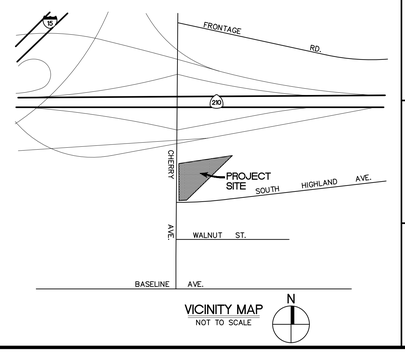
CITY OF FONTANA
8353 SIERRA AVENUE
FONTANA, CA. 92335
(909) 350-7600

GEOTECHNICAL ENGINEER STATEMENT

WE HEREBY ACKNOWLEDGE THAT THIS PROJECT AS DESIGNED IS CONSISTENT WITH THE GEOTECHNICAL SOILS REPORT REQUIREMENTS AND RECOMMENDATIONS; AS WELL AS ALL REQUIRED TESTS, INSPECTIONS AND REPORTS WILL BE CONDUCTED AND PREPARED AS NECESSARY IF HIRED TO PERFORM THE WORK. THE INITIAL GEOTECHNICAL REPORT WAS PREPARED BY OUR OFFICE ON MAY 18, 2022 AS PROJECT NO. 13491.001.

JASON D. HERTZBERG, PRINCIPAL ENGINEER — DATE
GE NO. 2711
LEIGHTON CONSULTING, INC.

WDID # N/A (CIP PROJECT)



VICINITY MAP
NOT TO SCALE

BENCH MARK

CALTRANS BENCHMARK #8-17
BRASS DISK LOCATED IN S.C.E. TOWER LEG LOCATED 347' N/O I-210, 0.2 MILES WEST OF SAN SEVAINE RD.

ELEVATION = 1428.61 FEET

NOTE: THE NGS ELEVATION CONVERSION FROM NGVD29 TO NAVD88 FOR THE COORDINATES OF THIS SITE IS 2.55 FEET ±0.01. THIS CONVERSION CAN BE USED TO ANALYZE ELEVATIONS BETWEEN THESE PLANS AND OFFSITE IMPROVEMENT PLANS FOR THE FRONTAGE ON CHERRY AVENUE.

LEGEND

TC	TOP OF CONCRETE CURB
FS	FINISHED CONCRETE SURFACE
AC	ASPHALTIC CEMENT PAVEMENT
FL	FLOW LINE
FG	FINISHED GRADE OF DIRT
FF	FINISHED FLOOR OF BUILDING
BS	BACK OF SIDEWALK
EG	EDGE OF GUTTER
INV.	INVERT
GB	GRADE BREAK
HP	HIGH POINT
TB	TOP OF BERM
EP	EDGE OF A.C. PAVEMENT
℄	PROPERTY LINE
℄	CENTER LINE
TW	TOP OF WALL
TRW	TOP OF RETAINING WALL
TF	TOP OF FOOTING
TOG	TOP OF DRAIN BOX GRATE
	EDGE OF A.C. PAVEMENT
	CONCENTRATED FLOW LINE
	SHEET FLOW DRAINAGE
T/HDWL.	TOP OF HEADWALL
(02.20)	EXISTING ELEVATION
-(02)-	EXISTING CONTOUR ELEVATION
02.20	PROPOSED ELEVATION
02	PROPOSED CONTOUR ELEVATION
ID	INSIDE DIAMETER
OD	OUTSIDE DIAMETER
G	GAS MAIN
W	WATER MAIN
S	SANITARY SEWER
E	UNDERGROUND ELECTRICAL CONDUIT
T	UNDERGROUND TELEPHONE CONDUIT
SD	STORM DRAIN
CTV	UNDERGROUND CABLE TELEVISION CONDUIT
TSC	TRAFFIC SIGNAL CONDUIT
WV	WATER VALVE
WM	WATER METER
FH	FIRE HYDRANT
GM	GAS METER
SMH	SANITARY SEWER MANHOLE
PP	POWER POLE
SL	STREET LIGHT
CO	CLEANOUT
IP	IRON PIPE
LP	LIGHT POLE
SDMH	STORM DRAIN MANHOLE
RCP	REINFORCED CONCRETE PIPE
CLF	CHAIN LINK FENCE
ICV	IRRIGATION CONTROL VALVE
ICB	IRRIGATION CONTROL BOX
GP	GUARD POST
WF	WROUGHT IRON FENCE
ROH	BUILDING ROOF OVERHANG
TSP	TRAFFIC SIGNAL POLE
PB	PULL BOX
PA	LANDSCAPED PLANTER AREA
TPB	TELEPHONE PULL BOX
TMH	TELEPHONE MANHOLE
EPB	ELECTRIC PULL BOX
TSC	TRAFFIC SIGNAL CONDUIT
SLC	STREET LIGHT CONDUIT
TSPB	TRAFFIC SIGNAL PULL BOX
TS PED.	TRAFFIC SIGNAL PEDESTAL
BFD	BACKFLOW PREVENTION DEVICE
TE	TRASH ENCLOSURE
PM	ELECTRIC PAD MOUNT TRANSFORMER
CB	CATCH BASIN
RD	ROOF DRAIN
PRS	PARKING REGULATION SIGN
SLS	SPEED LIMIT SIGN
FP	FLAG POLE
DS	DIRECTIONAL SIGN
FO	FIBEROPTICS
B.E.P.	BOTTOM OF EXCAVATED PLANE
VOH	VEHICLE OVERHANG LINE
TSW	TOP OF SEAT WALL
DG	DECOMPOSED GRANITE
PIV	POST INDICATOR VALVE
FDC	FIRE DEPARTMENT CONNECTION
WVWD	WEST VALLEY WATER DISTRICT
SGVMWD	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
R	RIDGE LINE

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RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER
SAN BERNARDINO COUNTY FIRE DEPARTMENT
Northeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT — KELLEY NEEDHAM — C-13064 — Re-Ist: 03/31/27 — STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER — MARK S. LAMOUREUX — No. 38382 — CIVIL — STATE OF CALIFORNIA

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
301 N. SAN DIMAS AVENUE
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397
MARK S. LAMOUREUX (R.C.E. 38382) — 08-18-25 DATE

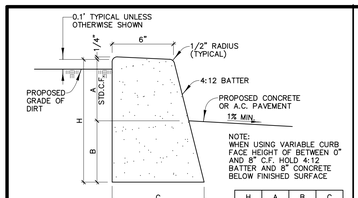
NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN: JGA — CHECKED: MSL
DATE: 07/01/2025 — SCALE: AS SHOWN
PROJECT NUMBER: W2100100AR

GRADING, DRAINAGE, STORM DRAIN, AND UTILITY PLAN TITLE SHEET

DRAWING NUMBER: C1

8/18/2025 12:33:13 PM, MSL ENGINEERING, INC. (JA)
BID SET_20250818
JN 20038-20038 C1plot1a

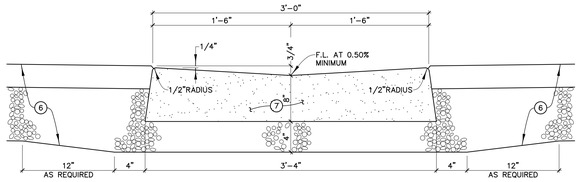


NOTE: CONTROL JOINTS TO BE A MINIMUM 1/4" BITUMINOUS FELT AT 24' O.C. MAXIMUM AND AT BEGINNING AND END OF CURVES

NOTE: WEAKENED PLANE JOINTS AT 10 FOOT INTERVALS AND MAY BE SAWCUT

H	A	B	C
8"	0"	8"	8.5"
12"	4"	8"	10"
14"	6"	8"	10.5"
16"	8"	8"	12"
24"	12"	12"	12"
36"	18"	18"	12"
48"	24"	24"	12"

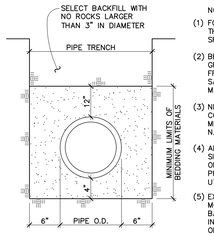
DETAIL "A" (1)(2)(3)
6" PLANTER CURB
NOT TO SCALE



NOTE: CONTROL JOINTS TO BE A MINIMUM 1/4" BITUMINOUS FELT AT 24' O.C. MAXIMUM AND AT BEGINNING AND END OF CURVES PER DETAIL ARCHITECTURAL LAYOUT.

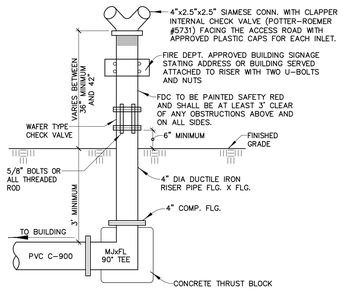
NOTE: WEAKENED PLANE JOINTS AT 10 FOOT INTERVALS AND MAY BE SAWCUT

DETAIL "C" (7)
3FT. WIDE DRAINAGE SWALE
NOT TO SCALE

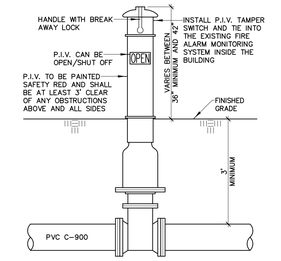


NOTES:
(1) FOR TRENCHES DEEPER THAN 4 FEET, FOLLOW THE REQUIREMENTS OF THE EARTHWORK SPECIFICATIONS.
(2) BEDDING MATERIAL SHALL CONSIST OF SAND, GRAVEL, CRUSHED AGGREGATE OR NATIVE FREE-DRAINING GRANULAR MATERIAL HAVING A SAND EQUIVALENT NOT LESS THAN 30 AND A MAXIMUM GRAVEL SIZE OF 1/4."
(3) NEW FIRE SERVICE LINES SHALL HAVE A MINIMUM COVER OF 30" IN NON-TRAFFIC AREAS AND A MINIMUM COVER OF 36" IN TRAFFIC AREAS PER N.F.P.A. 24 SECTION 8.1
(4) ALL EXISTING SURFACES OF PAVING, CURBS, SIDEWALK AND SOFTSCAPE SHALL BE REPAVED OR RESTORED TO A CONDITION WHICH EXISTED PRIOR TO DEMOLITION AS REQUIRED FOR NEW UTILITY CONSTRUCTION.
(5) EXISTING SOILS ARE CONSIDERED TO BE MODERATELY CORROSIVE TO BURIED FERROUS-BASED METAL PIPE. FOLLOW RECOMMENDATIONS IN THE JOB SPECIFICATIONS FOR THE INSTALLATION OF PROTECTIVE COATINGS ON METAL PIPES.

DETAIL "G"
STORM DRAIN/UTILITY TRENCH DETAIL
NOT TO SCALE

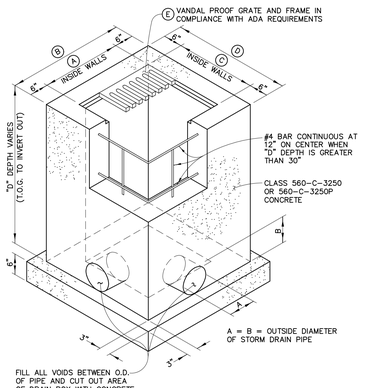


DETAIL "J" (41)
FIRE DEPT. CONNECTION DETAIL



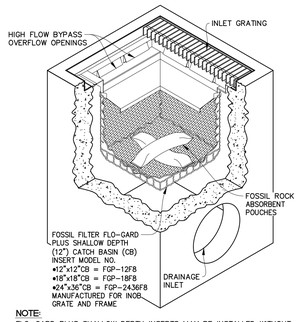
NOTE: PIV SHALL BE LOCATED NOT LESS THAN 40 FEET FROM THE BUILDING

DETAIL "K" (42)
POST INDICATOR VALVE DETAIL
NOT TO SCALE



DRAIN BOX NOTES					
BOX SIZE	(A)	(B)	(C)	(D)	(E)
18"-INCH BY 18"-INCH (10)	16"	28"	16"	28"	ALHAMBRA FOUNDRY CO., LTD. OR EQUAL [NARROW SLOT, 0.5" WIDE (MAX.) OPENINGS] 18"x18" GALVANIZED CAST IRON GRATE AND FRAME AND RATED FOR TRAFFIC CONDITIONS. SECURE GRATE AGAINST THEFT.
24"-INCH BY 36"-INCH (9)	22"	34"	34"	46"	ALHAMBRA FOUNDRY CO., LTD. OR EQUAL [NARROW SLOT, 0.5" WIDE (MAX.) OPENINGS] 24"x36" GALVANIZED CAST IRON GRATE AND FRAME AND RATED FOR TRAFFIC CONDITIONS. SECURE GRATE AGAINST THEFT.

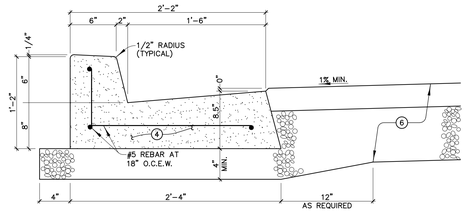
DETAIL "D" (9)(10)
CONCRETE DRAIN BOX
NOT TO SCALE



NOTE:
FLO-GARD PLUS SHALLOW DEPTH INSERTS MAY BE INSTALLED WITHOUT ABSORBENT POUCHES DURING COURSE OF CONSTRUCTION AS A SEDIMENTATION CONTROL DEVICE. AFTER CONSTRUCTION, REMOVE SEDIMENT AND INSTALL ABSORBENT POUCHES.

NOTE:
DRAINAGE PROTECTION SYSTEMS AT (888) 950-8826 IS THE INSTALLATION AND MAINTENANCE COMPANY OF OLDCASTLE INFRASTRUCTURE AND SHOULD BE CONTACTED FOR INFORMATION ON LOCAL SERVICE CONTACT.

DETAIL "E" (11)
FOSSIL FILTER
(MANUFACTURED BY OLDCASTLE STORMWATER SOLUTIONS AT 888-965-3227)
NOT TO SCALE

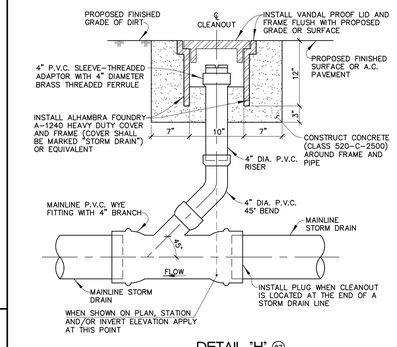


NOTE: CONTROL JOINTS TO BE A MINIMUM 1/4" BITUMINOUS FELT AT 24' O.C. MAXIMUM AND AT BEGINNING AND END OF CURVES

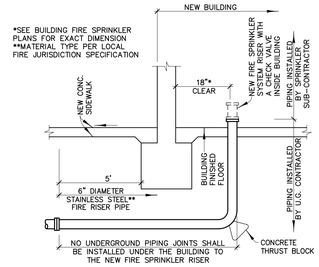
NOTE: WEAKENED PLANE JOINTS AT 10 FOOT INTERVALS AND MAY BE SAWCUT

NOTE: INSTALL REBAR AND DOWELS AS DESCRIBED IN CONSTRUCTION NOTE (6) SHOWN ON SHEET C5

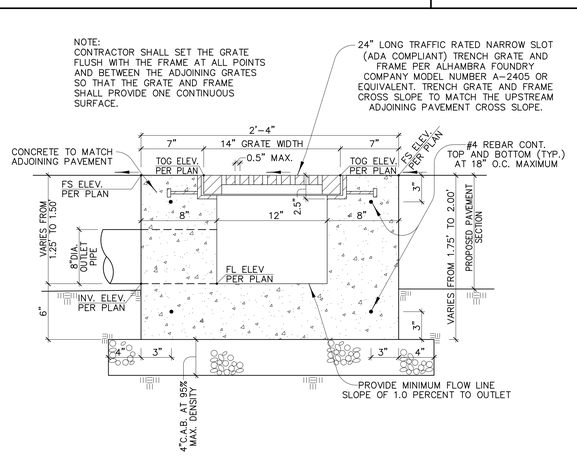
DETAIL "B" (4)
6" CURB WITH 18" GUTTER
NOT TO SCALE



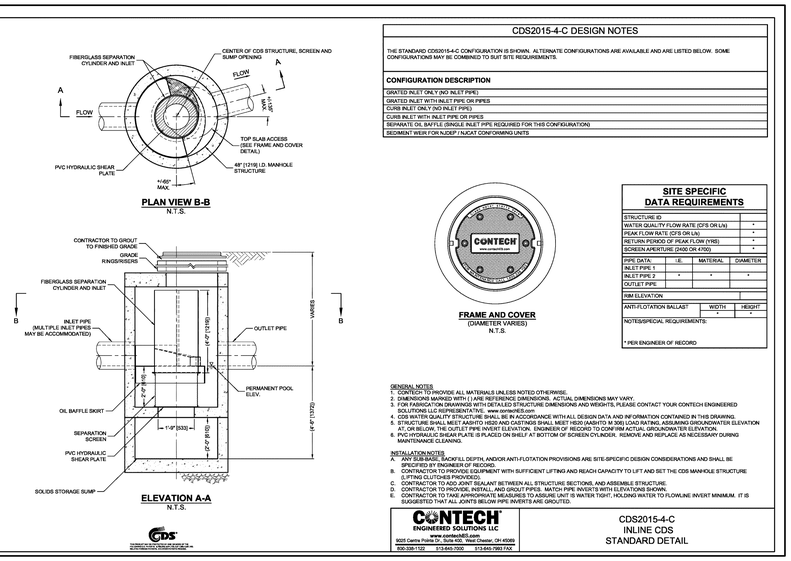
DETAIL "H" (87)
STORM DRAIN CLEANOUT
NOT TO SCALE



DETAIL "L" (50)
FIRE SPRINKLER RISER DETAIL
NOT TO SCALE



DETAIL "F" (14)
PAVEMENT TRENCH DRAIN
NOT TO SCALE



CDS2015-4-C DESIGN NOTES
THE STANDARD CDS2015-4-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.
CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES
SEPARATE OIL BAY FLG (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS

FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID		
WATER QUALITY FLOW RATE (CFS OR L/s)		*
PEAK FLOW RATE (CFS OR L/s)		*
RETURN PERIOD OF PEAK FLOW (YRS)		*
SCREEN APERTURE (2400 OR 4700)		*

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2	*	*	*
OUTLET PIPE			

RIM ELEVATION		
ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	*	*

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

GENERAL NOTES
1. CONTRACTOR TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE WITH +/- 1 INCH UNLESS OTHERWISE NOTED. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO H520 AND CASTINGS SHALL MEET H520 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO BACKFILL AROUND INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CDS2015-4-C
INLINE CDS
STANDARD DETAIL

DETAIL "M" (93)
NOT TO SCALE

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

PBK

RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
Northeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT
KELLEY NEEDHAM
C-19064
Exp 03/31/27
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MARK S. LAMOUREUX
No. 38382
CIVIL
STATE OF CALIFORNIA

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
301 N. SAN DIMAS AVENUE
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397
MARK S. LAMOUREUX (R.C.E. 38382) 08-18-25 DATE

NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN: JGA | CHECKED: MSL
DATE: 07/01/2025 | SCALE: AS SHOWN
PROJECT NUMBER: W2100100AR

DETAILS SHEET

DRAWING NUMBER: C2

Underground Service Alert
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811
TWO WORKING DAYS BEFORE YOU DIG

JN 20038-20038 C2da

BID SET_20250818

8/18/2025 12:33:20 PM, MSL ENGINEERING, INC. (JA)

REVIEWED
Aug 25, 2025
BUILDING & SAFETY
CITY OF FONTANA

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TOPOGRAPHY SURVEY MAP

DRAWING NUMBER: C3

LINE TABLE		
NO.	BEARING	DISTANCE
L1	N44°24'08"E	10.80'
L2	N89°56'55"W	14.38'

BOUNDARY MONUMENTS AND SURVEY CONTROL POINTS DESCRIPTION

- (A) FD. 2" BRASS DISK IN AC FLUSH.
- (B) SET 2x2 HUB & NAIL.
- (C) FD. 1.5" ALUMINUM DISK.
- (D) SET 2x2 HUB & TACK IN FG.
- (E) SET MAG NAIL & FLAGGING IN AC.
- (E) FD. C—NAIL IN BACK OF WALK.

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PROJECT NORTH | TRUE NORTH
GRAPHIC SCALE
SCALE: 1"=20'

BID SET_20250818
JN 20008 - 20008 C3bim

REVIEWED
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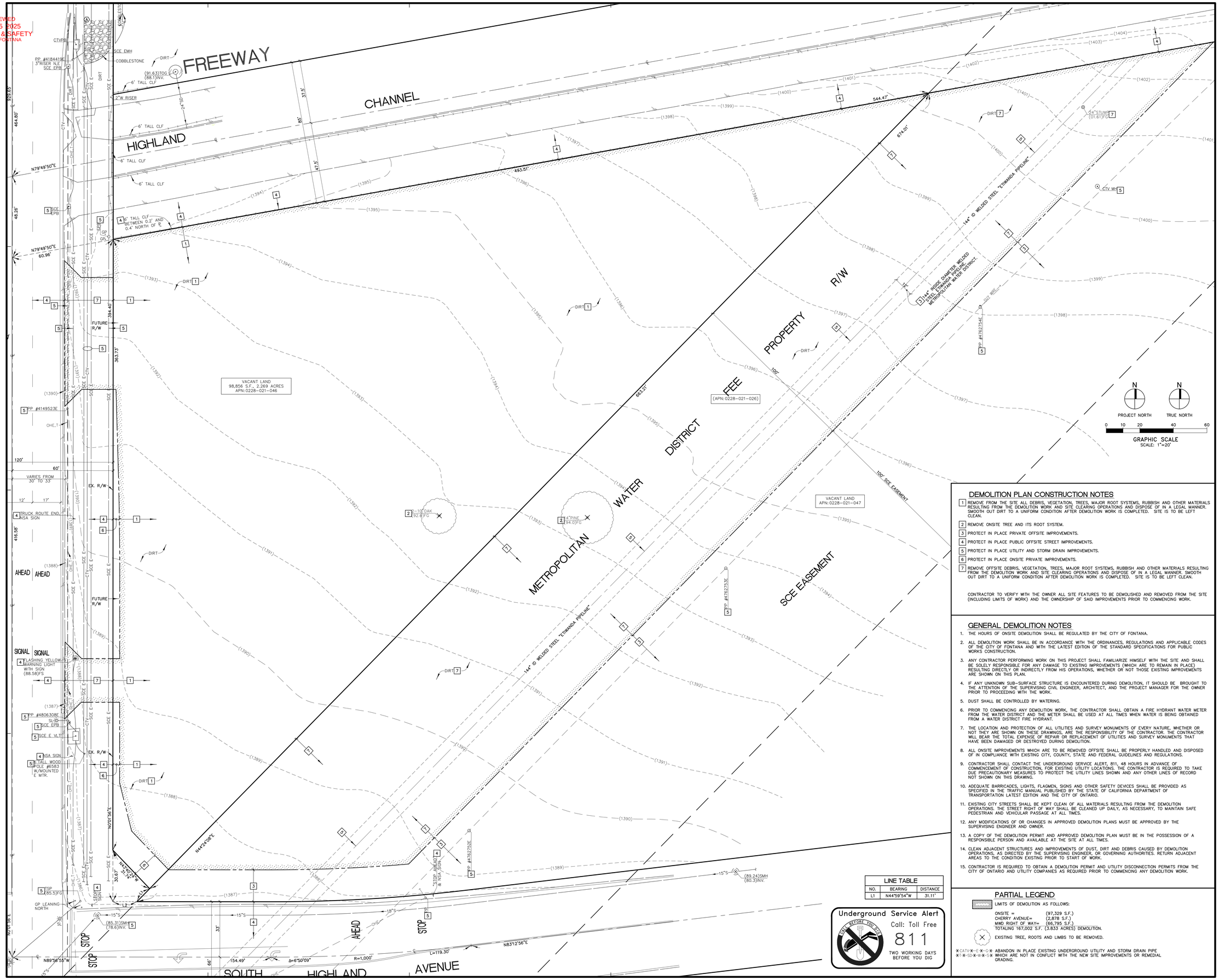

DEMOLITION PLAN CONSTRUCTION NOTES

1. REMOVE FROM THE SITE ALL DEBRIS, VEGETATION, TREES, MAJOR ROOT SYSTEMS, RUBBISH AND OTHER MATERIALS RESULTING FROM THE DEMOLITION WORK AND SITE CLEARING OPERATIONS AND DISPOSE OF IN A LEGAL MANNER. SMOOTH OUT DIRT TO A UNIFORM CONDITION AFTER DEMOLITION WORK IS COMPLETED. SITE IS TO BE LEFT CLEAN.
2. REMOVE ONSITE TREE AND ITS ROOT SYSTEM.
3. PROTECT IN PLACE PRIVATE OFFSITE IMPROVEMENTS.
4. PROTECT IN PLACE PUBLIC OFFSITE STREET IMPROVEMENTS.
5. PROTECT IN PLACE UTILITY AND STORM DRAIN IMPROVEMENTS.
6. PROTECT IN PLACE ONSITE PRIVATE IMPROVEMENTS.
7. REMOVE OFFSITE DEBRIS, VEGETATION, TREES, MAJOR ROOT SYSTEMS, RUBBISH AND OTHER MATERIALS RESULTING FROM THE DEMOLITION WORK AND SITE CLEARING OPERATIONS AND DISPOSE OF IN A LEGAL MANNER. SMOOTH OUT DIRT TO A UNIFORM CONDITION AFTER DEMOLITION WORK IS COMPLETED. SITE IS TO BE LEFT CLEAN.

CONTRACTOR TO VERIFY WITH THE OWNER ALL SITE FEATURES TO BE DEMOLISHED AND REMOVED FROM THE SITE (INCLUDING LIMITS OF WORK) AND THE OWNERSHIP OF SAID IMPROVEMENTS PRIOR TO COMMENCING WORK.

GENERAL DEMOLITION NOTES

1. THE HOURS OF ONSITE DEMOLITION SHALL BE REGULATED BY THE CITY OF FONTANA.
2. ALL DEMOLITION WORK SHALL BE IN ACCORDANCE WITH THE ORDINANCES, REGULATIONS AND APPLICABLE CODES OF THE CITY OF FONTANA AND WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
3. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS (WHICH ARE TO REMAIN IN PLACE) RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS, WHETHER OR NOT THOSE EXISTING IMPROVEMENTS ARE SHOWN ON THIS PLAN.
4. IF ANY UNKNOWN SUB-SURFACE STRUCTURE IS ENCOUNTERED DURING DEMOLITION, IT SHOULD BE BROUGHT TO THE ATTENTION OF THE SUPERVISING CIVIL ENGINEER, ARCHITECT, AND THE PROJECT MANAGER FOR THE OWNER PRIOR TO PROCEEDING WITH THE WORK.
5. DUST SHALL BE CONTROLLED BY WATERING.
6. PRIOR TO COMMENCING ANY DEMOLITION WORK, THE CONTRACTOR SHALL OBTAIN A FIRE HYDRANT WATER METER FROM THE WATER DISTRICT AND THE METER SHALL BE USED AT ALL TIMES WHEN WATER IS BEING OBTAINED FROM A WATER DISTRICT FIRE HYDRANT.
7. THE LOCATION AND PROTECTION OF ALL UTILITIES AND SURVEY MONUMENTS OF EVERY NATURE, WHETHER OR NOT THEY ARE SHOWN ON THESE DRAWINGS, ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES AND SURVEY MONUMENTS THAT HAVE BEEN DAMAGED OR DESTROYED DURING DEMOLITION.
8. ALL ONSITE IMPROVEMENTS WHICH ARE TO BE REMOVED OFFSITE SHALL BE PROPERLY HANDLED AND DISPOSED OF IN COMPLIANCE WITH EXISTING CITY, COUNTY, STATE AND FEDERAL GUIDELINES AND REGULATIONS.
9. CONTRACTOR SHALL CONTACT THE UNDERGROUND SERVICE ALERT, 811, 48 HOURS IN ADVANCE OF COMMENCEMENT OF CONSTRUCTION, FOR EXISTING UTILITY LOCATIONS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES OF RECORD NOT SHOWN ON THIS DRAWING.
10. ADEQUATE BARRICADES, LIGHTS, FLAGMEN, SIGNS AND OTHER SAFETY DEVICES SHALL BE PROVIDED AS SPECIFIED IN THE TRAFFIC MANUAL PUBLISHED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION LATEST EDITION AND THE CITY OF ONTARIO.
11. EXISTING CITY STREETS SHALL BE KEPT CLEAN OF ALL MATERIALS RESULTING FROM THE DEMOLITION OPERATIONS. THE STREET RIGHT OF WAY SHALL BE CLEANED UP DAILY, AS NECESSARY, TO MAINTAIN SAFE PEDESTRIAN AND VEHICULAR PASSAGE AT ALL TIMES.
12. ANY MODIFICATIONS OF OR CHANGES IN APPROVED DEMOLITION PLANS MUST BE APPROVED BY THE SUPERVISING ENGINEER AND OWNER.
13. A COPY OF THE DEMOLITION PERMIT AND APPROVED DEMOLITION PLAN MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
14. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITION OPERATIONS, AS DIRECTED BY THE SUPERVISING ENGINEER, OR GOVERNING AUTHORITIES. RETURN ADJACENT AREAS TO THE CONDITION EXISTING PRIOR TO START OF WORK.
15. CONTRACTOR IS REQUIRED TO OBTAIN A DEMOLITION PERMIT AND UTILITY DISCONNECTION PERMITS FROM THE CITY OF ONTARIO AND UTILITY COMPANIES AS REQUIRED PRIOR TO COMMENCING ANY DEMOLITION WORK.

LINE TABLE		
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L1	N44°59'54"W	31.11'

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PARTIAL LEGEND

LIMITS OF DEMOLITION AS FOLLOWS:

ONSITE =	(97,329 S.F.)
CHERRY AVENUE=	(2,878 S.F.)
MWD RIGHT OF WAY=	(66,795 S.F.)
TOTALING 167,002 S.F. (3.833 ACRES) DEMOLITION.	

EXISTING TREE, ROOTS AND LIMBS TO BE REMOVED.

-CATV--E--G- ABANDON IN PLACE EXISTING UNDERGROUND UTILITY AND STORM DRAIN PIPE
-T--SD--W--S- WHICH ARE NOT IN CONFLICT WITH THE NEW SITE IMPROVEMENTS OR REMEDIAL GRADING.

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DEMOLITION PLAN

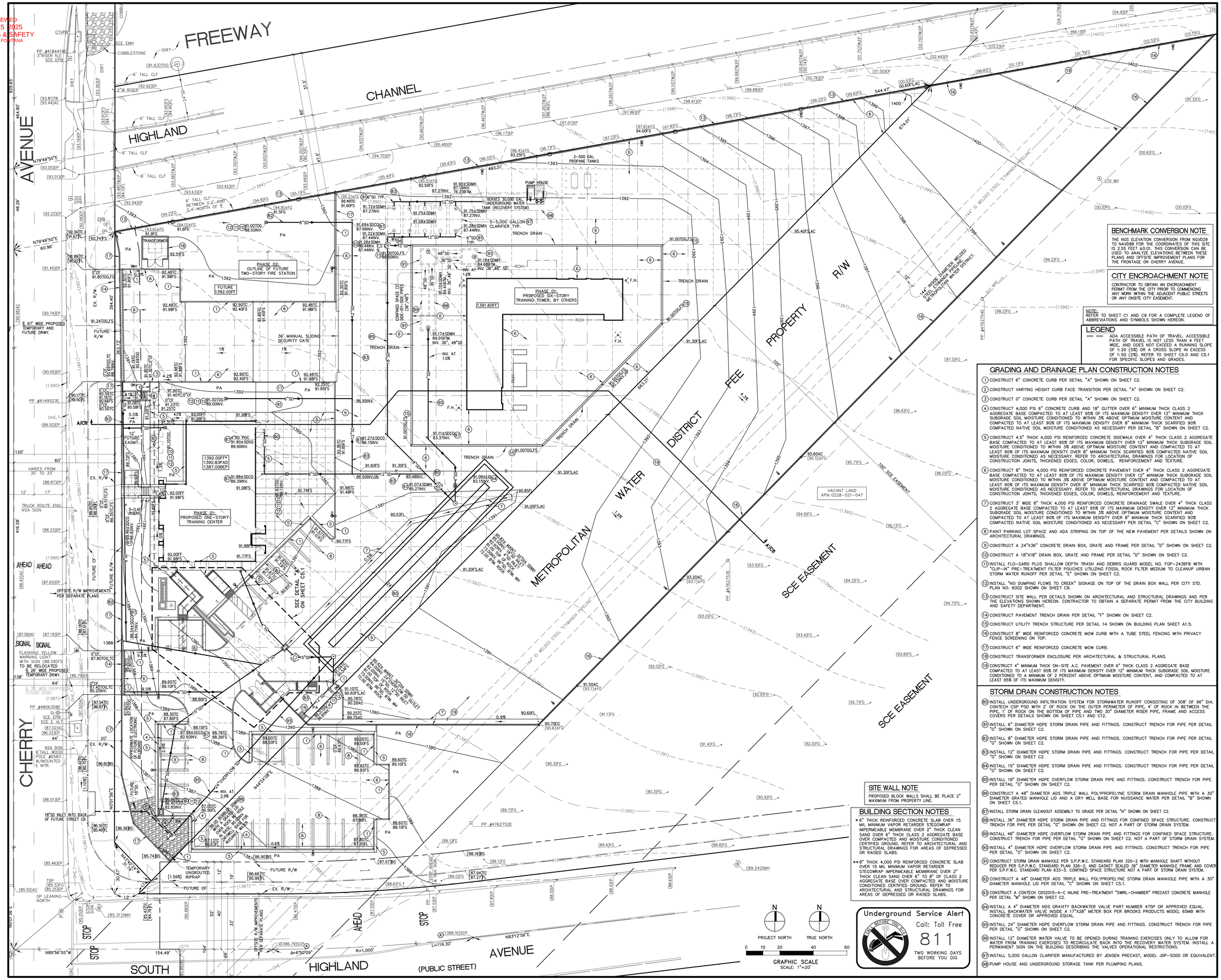
DRAWING NUMBER: C4

BID SET_20250818

8/18/2025 12:33:39 PM, MSL ENGINEERING, INC. (JA)

JN 20038 - 20038 C4dmo

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA



BENCHMARK CONVERSION NOTE

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CITY ENCROACHMENT NOTE

CONTRACTOR TO OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY PRIOR TO COMMENCING ANY WORK WITHIN THE ADJACENT PUBLIC STREETS OR ANY ONSITE CITY EASEMENT.

NOTE:
REFER TO SHEET C1 AND C9 FOR A COMPLETE LEGEND OF ABBREVIATIONS AND SYMBOLS SHOWN HEREON.

LEGEND

ADA ACCESSIBLE PATH OF TRAVEL. ACCESSIBLE PATH OF TRAVEL IS NOT LESS THAN 4 FEET WIDE, AND DOES NOT EXCEED A RUNNING SLOPE OF 1:20 (5%) OR A CROSS SLOPE IN EXCESS OF 1:50 (2%). REFER TO SHEET C5.0 AND C5.1 FOR SPECIFIC SLOPES AND GRADES.

GRADING AND DRAINAGE PLAN CONSTRUCTION NOTES

1. CONSTRUCT 6" CONCRETE CURB PER DETAIL "A" SHOWN ON SHEET C2.
2. CONSTRUCT VARYING HEIGHT CURB FACE TRANSITION PER DETAIL "A" SHOWN ON SHEET C2.
3. CONSTRUCT 0" CONCRETE CURB PER DETAIL "A" SHOWN ON SHEET C2.
4. CONSTRUCT 4,000 PSI 6" CONCRETE CURB AND 18" GUTTER OVER 6" MINIMUM THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY PER DETAIL "B" SHOWN ON SHEET C2.
5. CONSTRUCT 4.5" THICK 4,000 PSI REINFORCED CONCRETE SIDEWALK OVER 4" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF CONSTRUCTION JOINTS, THICKENED EDGES, COLOR, DOWELS, REINFORCEMENT AND TEXTURE.
6. CONSTRUCT 8" THICK 4,000 PSI REINFORCED CONCRETE PAVEMENT OVER 4" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF CONSTRUCTION JOINTS, THICKENED EDGES, COLOR, DOWELS, REINFORCEMENT AND TEXTURE.
7. CONSTRUCT 3' WIDE 8" THICK 4,000 PSI REINFORCED CONCRETE DRAINAGE SWALE OVER 4" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY PER DETAIL "C" SHOWN ON SHEET C2.
8. PAINT PARKING LOT SPACE AND ADA STRIPING ON TOP OF THE NEW PAVEMENT PER DETAILS SHOWN ON ARCHITECTURAL DRAWINGS.
9. CONSTRUCT A 24"X36" CONCRETE DRAIN BOX, GRATE AND FRAME PER DETAIL "D" SHOWN ON SHEET C2.
10. CONSTRUCT A 18"X18" DRAIN BOX, GRATE AND FRAME PER DETAIL "D" SHOWN ON SHEET C2.
11. INSTALL FLO-GARD PLUS SHALLOW DEPTH TRASH AND DEBRIS GUARD MODEL NO. FGP-2436F8 WITH "CLIP-IN" PRE-TREATMENT FILTER POUCHES UTILIZING FOSSIL ROCK FILTER MEDIUM TO CLEANUP URBAN STORM WATER RUNOFF PER DETAIL "E" SHOWN ON SHEET C2.
12. INSTALL "NO DUMPING FLOWS TO CREEK" SIGNAGE ON TOP OF THE DRAIN BOX WALL PER CITY STD. PLAN NO. 6002 SHOWN ON SHEET C9.
13. CONSTRUCT SITE WALL PER DETAILS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS AND PER THE ELEVATIONS SHOWN HEREON. CONTRACTOR TO OBTAIN A SEPARATE PERMIT FROM THE CITY BUILDING AND SAFETY DEPARTMENT.
14. CONSTRUCT PAVEMENT TRENCH DRAIN PER DETAIL "F" SHOWN ON SHEET C2.
15. CONSTRUCT UTILITY TRENCH STRUCTURE PER DETAIL 14 SHOWN ON BUILDING PLAN SHEET A1.5.
16. CONSTRUCT 8" WIDE REINFORCED CONCRETE MOW CURB WITH A TUBE STEEL FENCING WITH PRIVACY FENCE SCREENING ON TOP.
17. CONSTRUCT 6" WIDE REINFORCED CONCRETE MOW CURB.
18. CONSTRUCT TRANSFORMER ENCLOSURE PER ARCHITECTURAL & STRUCTURAL PLANS.
19. CONSTRUCT 4" MINIMUM THICK ON-SITE A.C. PAVEMENT OVER 6" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO A MINIMUM OF 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY.

STORM DRAIN CONSTRUCTION NOTES

80. INSTALL UNDERGROUND INFILTRATION SYSTEM FOR STORMWATER RUNOFF CONSISTING OF 308' OF 96" DIA. CONTECH CSP PSD WITH 2' OF ROCK ON THE OUTER PERIMETER OF PIPE, 4' OF ROCK IN BETWEEN THE PIPE, 1' OF ROCK ON THE BOTTEM OF PIPE AND TWO 30" DIAMETER RISER PIPE, FRAME AND ACCESS COVERS PER DETAILS SHOWN ON SHEET C5.1 AND C12.
81. INSTALL 6" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
82. INSTALL 8" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
83. INSTALL 12" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
84. INSTALL 15" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
85. INSTALL 18" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
86. CONSTRUCT A 48" DIAMETER ADS TRIPLE WALL POLYPROPELYNE STORM DRAIN MANHOLE PIPE WITH A 30" DIAMETER GRATED MANHOLE LID AND A DRY WELL BASE FOR NUISSANCE WATER PER DETAIL "B" SHOWN ON SHEET C5.1.
87. INSTALL STORM DRAIN CLEANOUT ASSEMBLY TO GRADE PER DETAIL "H" SHOWN ON SHEET C2.
88. INSTALL 36" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS FOR CONFINED SPACE STRUCTURE. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2. NOT A PART OF STORM DRAIN SYSTEM.
89. INSTALL 48" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS FOR CONFINED SPACE STRUCTURE. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2. NOT A PART OF STORM DRAIN SYSTEM.
90. INSTALL 4" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
91. CONSTRUCT STORM DRAIN MANHOLE PER S.P.P.W.C. STANDARD PLAN 320-2 WITH MANHOLE SHAFT WITHOUT REDUCER PER S.P.P.W.C. STANDARD PLAN 326-2, AND GASKET SEALED 36" DIAMETER MANHOLE FRAME AND COVER PER S.P.P.W.C. STANDARD PLAN 633-5. CONFINED SPACE STRUCTURE NOT A PART OF STORM DRAIN SYSTEM.
92. CONSTRUCT A 48" DIAMETER ADS TRIPLE WALL POLYPROPELYNE STORM DRAIN MANHOLE PIPE WITH A 30" DIAMETER MANHOLE LID PER DETAIL "C" SHOWN ON SHEET C5.1.
93. CONSTRUCT A CONTECH CDS2015-4-C INLINE PRE-TREATMENT "SWIRL-CHAMBER" PRECAST CONCRETE MANHOLE PER DETAIL "M" SHOWN ON SHEET C2.
94. INSTALL A 4" DIAMETER NDS GRAVITY BACKWATER VALVE PART NUMBER 475P OR APPROVED EQUAL. INSTALL BACKWATER VALVE INSIDE A 17"X28" METER BOX PER BROOKS PRODUCTS MODEL 65MB WITH CONCRETE COVER OR APPROVED EQUAL.
95. INSTALL 24" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
96. INSTALL 12" DIAMETER WATER VALVE TO BE OPENED DURING TRAINING EXERCISES ONLY TO ALLOW FOR WATER FROM TRAINING EXERCISES TO RECIRCULATE BACK INTO THE RECOVERY WATER SYSTEM. INSTALL A PERMANENT SIGN ON THE BUILDING DESCRIBING THE VALVES OPERATIONAL RESTRICTIONS.
97. INSTALL 5,000 GALLON CLARIFIER MANUFACTURED BY JENSEN PRECAST, MODEL J0P-5000 OR EQUIVALENT.
98. PUMP HOUSE AND UNDERGROUND STORAGE TANK PER PLUMPING PLANS.

SITE WALL NOTE

PROPOSED BLOCK WALLS SHALL BE PLACE 2" MAXIMUM FROM PROPERTY LINE.

BUILDING SECTION NOTES

* 6" THICK REINFORCED CONCRETE SLAB OVER 15 MIL MINIMUM VAPOR RETARDER STEGOWRAP IMPERMEABLE MEMBRANE OVER 2" THICK CLEAN SAND OVER 6" THICK CLASS 2 AGGREGATE BASE OVER COMPACTED AND MOISTURE CONDITIONED CERTIFIED GROUND. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR AREAS OF DEPRESSED OR RAISED SLABS.
** 8" THICK 4,000 PSI REINFORCED CONCRETE SLAB OVER 15 MIL MINIMUM VAPOR RETARDER STEGOWRAP IMPERMEABLE MEMBRANE OVER 2" THICK CLEAN SAND OVER 6" TO 8" OF CLASS 2 AGGREGATE BASE OVER COMPACTED AND MOISTURE CONDITIONED CERTIFIED GROUND. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR AREAS OF DEPRESSED OR RAISED SLABS.

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GRADING AND DRAINAGE PLAN

DRAWING NUMBER: C5.0

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JN 20008 - 20008 C5.0.pdp - C5.1.pdp

8/18/2025 12:33:44 PM MSL ENGINEERING, INC. (JA)

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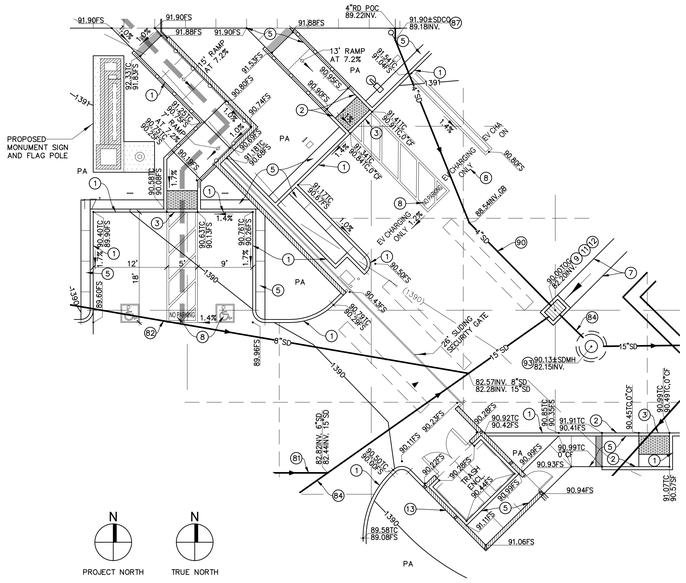
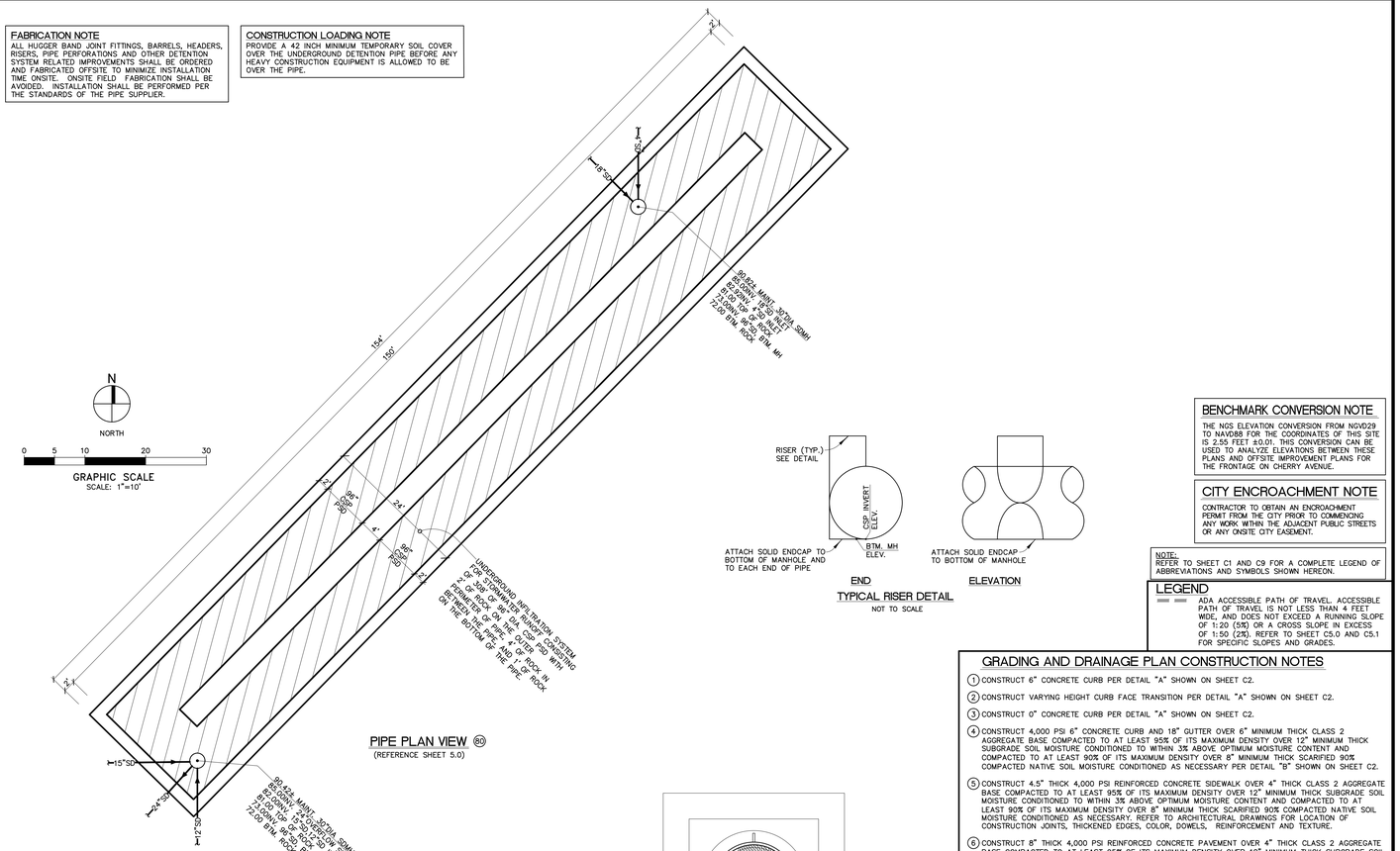
CITY OF FONTANA





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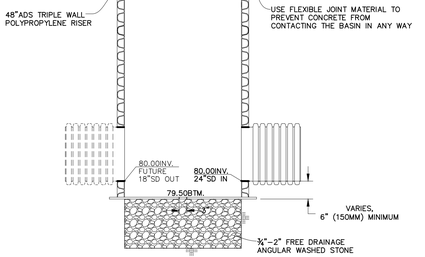
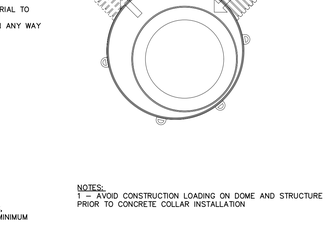
3. CONSTRUCT 0" CONCRETE CURB PER DETAIL "A" SHOWN ON SHEET C2.
4. CONSTRUCT 4,000 PSI 6" CONCRETE CURB AND 18" GUTTER OVER 6" MINIMUM THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY PER DETAIL "B" SHOWN ON SHEET C2.
5. CONSTRUCT 4.5" THICK 4,000 PSI REINFORCED CONCRETE SIDEWALK OVER 4" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF CONSTRUCTION JOINTS, THICKENED EDGES, COLOR, DOWELS, REINFORCEMENT AND TEXTURE.
6. CONSTRUCT 8" THICK 4,000 PSI REINFORCED CONCRETE PAVEMENT OVER 4" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF CONSTRUCTION JOINTS, THICKENED EDGES, COLOR, DOWELS, REINFORCEMENT AND TEXTURE.
7. CONSTRUCT 3' WIDE 8" THICK 4,000 PSI REINFORCED CONCRETE DRAINAGE SWALE OVER 4" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY PER DETAIL "C" SHOWN ON SHEET C2.
8. PAINT PARKING LOT SPACE AND ADA STRIPING ON TOP OF THE NEW PAVEMENT PER DETAILS SHOWN ON ARCHITECTURAL DRAWINGS.
9. CONSTRUCT A 24"X36" CONCRETE DRAIN BOX, GRATE AND FRAME PER DETAIL "D" SHOWN ON SHEET C2.
10. CONSTRUCT A 18"X18" DRAIN BOX, GRATE AND FRAME PER DETAIL "D" SHOWN ON SHEET C2.
11. INSTALL FLO-GARD PLUS SHALLOW DEPTH TRASH AND DEBRIS GUARD MODEL NO. FGP-2436FB WITH "CLIP-IN" PRE-TREATMENT FILTER POUCHES UTILIZING FOSSIL ROCK FILTER MEDIUM TO CLEANUP URBAN STORM WATER RUNOFF PER DETAIL "E" SHOWN ON SHEET C2.
12. INSTALL "NO DUMPING FLOWS TO CREEK" SIGNAGE ON TOP OF THE DRAIN BOX WALL PER CITY STD. PLAN NO. 6002 SHOWN ON SHEET C9.
13. CONSTRUCT SITE WALL PER DETAILS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS AND PER THE ELEVATIONS SHOWN HEREON. CONTRACTOR TO OBTAIN A SEPARATE PERMIT FROM THE CITY BUILDING AND SAFETY DEPARTMENT.
14. CONSTRUCT PAVEMENT TRENCH DRAIN PER DETAIL "F" SHOWN ON SHEET C2.
15. CONSTRUCT UTILITY TRENCH STRUCTURE PER DETAIL 14 SHOWN ON BUILDING PLAN SHEET A1.5.
16. CONSTRUCT 8" WIDE REINFORCED CONCRETE MOW CURB WITH A TUBE STEEL FENCING WITH PRIVACY FENCE SCREENING ON TOP.
17. CONSTRUCT 6" WIDE REINFORCED CONCRETE MOW CURB.
18. CONSTRUCT TRANSFORMER ENCLOSURE PER ARCHITECTURAL & STRUCTURAL PLANS.
19. CONSTRUCT 4" MINIMUM THICK ON-SITE A.C. PAVEMENT OVER 6" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO A MINIMUM OF 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY.

STORM DRAIN CONSTRUCTION NOTES

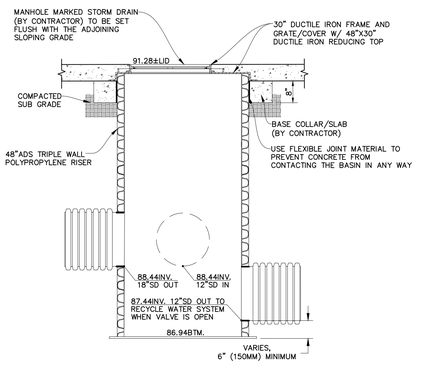
80. INSTALL UNDERGROUND INFILTRATION SYSTEM FOR STORMWATER RUNOFF CONSISTING OF 308' OF 96" DIA. CONTECH CSP PSD WITH 2' OF ROCK ON THE OUTER PERIMETER OF PIPE, 4' OF ROCK IN BETWEEN THE PIPE, 1' OF ROCK ON THE BOTTEM OF PIPE AND TWO 30" DIAMETER RISER PIPE, FRAME AND ACCESS COVERS PER DETAILS SHOWN ON SHEET C5.1 AND C12.
81. INSTALL 6" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C2.
82. INSTALL 8" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
83. INSTALL 12" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
84. INSTALL 15" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
85. INSTALL 18" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
86. CONSTRUCT A 48" DIAMETER ADS TRIPLE WALL POLYPROPELYNE STORM DRAIN MANHOLE PIPE WITH A 30" DIAMETER GRATED MANHOLE LID AND A DRY WELL BASE FOR NUISSANCE WATER PER DETAIL "B" SHOWN ON SHEET C5.1.
87. INSTALL STORM DRAIN CLEANOUT ASSEMBLY TO GRADE PER DETAIL "H" SHOWN ON SHEET C2.
88. INSTALL 36" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS FOR CONFINED SPACE STRUCTURE. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2. NOT A PART OF STORM DRAIN SYSTEM.
89. INSTALL 48" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS FOR CONFINED SPACE STRUCTURE. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2. NOT A PART OF STORM DRAIN SYSTEM.
90. INSTALL 4" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
91. CONSTRUCT STORM DRAIN MANHOLE PER S.P.P.W.C. STANDARD PLAN 320-2 WITH MANHOLE SHAFT WITHOUT REDUCER PER S.P.P.W.C. STANDARD PLAN 326-2, AND GASKET SEALED 36" DIAMETER MANHOLE FRAME AND COVER PER S.P.P.W.C. STANDARD PLAN 633-5. CONFINED SPACE STRUCTURE NOT A PART OF STORM DRAIN SYSTEM.
92. CONSTRUCT A 48" DIAMETER ADS TRIPLE WALL POLYPROPELYNE STORM DRAIN MANHOLE PIPE WITH A 30" DIAMETER MANHOLE LID PER DETAIL "C" SHOWN ON SHEET C5.1.
93. CONSTRUCT A CONTECH CDS2015-4-C INLINE PRE-TREATMENT "SWIRL-CHAMBER" PRECAST CONCRETE MANHOLE PER DETAIL "M" SHOWN ON SHEET C2.
94. INSTALL A 4" DIAMETER NDS GRAVITY BACKWATER VALVE PART NUMBER 475P OR APPROVED EQUAL. INSTALL BACKWATER VALVE INSIDE A 17"X28" METER BOX PER BROOKS PRODUCTS MODEL 65MB WITH CONCRETE COVER OR APPROVED EQUAL.
95. INSTALL 24" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
96. INSTALL 12" DIAMETER WATER VALVE TO BE OPENED DURING TRAINING EXERCISES ONLY TO ALLOW FOR WATER FROM TRAINING EXERCISES TO RECIRCULATE BACK INTO THE RECOVERY WATER SYSTEM. INSTALL A PERMANENT SIGN ON THE BUILDING DESCRIBING THE VALVES OPERATIONAL RESTRICTIONS.
97. INSTALL 5,000 GALLON CLARIFIER MANUFACTURED BY JENSEN PRECAST, MODEL JOP-5000 OR EQUIVALENT.
98. PUMP HOUSE AND UNDERGROUND STORAGE TANK PER PLUMPING PLANS.

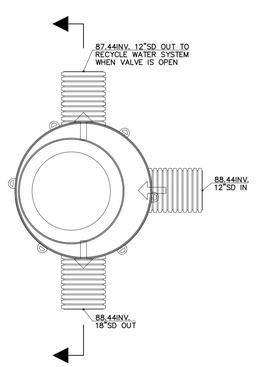




NOTES:
1 - AVOID CONSTRUCTION LOADING ON DOME AND STRUCTURE PRIOR TO CONCRETE COLLAR INSTALLATION

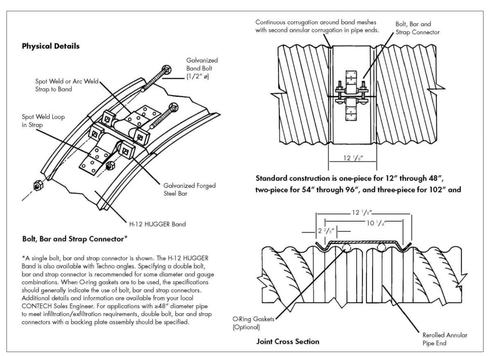
DETAIL "B"/C5.1 (86)
STORM DRAIN MANHOLE
(REFERENCE - SHEET C5.0)
NOT TO SCALE





NOTES:
1 - AVOID CONSTRUCTION LOADING ON DOME AND STRUCTURE PRIOR TO CONCRETE COLLAR INSTALLATION

DETAIL "C"/C5.1 (92)
STORM DRAIN MANHOLE
(REFERENCE - SHEET C5.0)
NOT TO SCALE



*A single bolt, bar and strap connector is shown. The H-12 HUGGER Band is also available with Techno angles. Specifying a double bolt, bar and strap connector is recommended for some diameter and gauge combinations. When O-ring gaskets are to be used, the specifications should generally indicate the use of bolt, bar and strap connectors. Additional details and information are available from your local CONTECH Sales Engineer. For applications with a48" diameter pipe to meet infiltration/exfiltration requirements, double bolt, bar and strap connectors with a backing plate assembly should be specified.

CONTECH HUGGER BAND DETAIL

CONTECH PIPE GENERAL NOTES

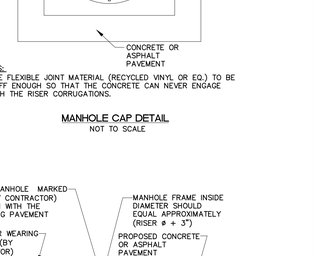
1. ALL RISERS AND STUBS ARE 2-2/3"X1/2" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.

CONTECH FOUNDATION BEDDING PREPARATION NOTE
PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSTABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED BY CONTRACTOR. ONCE THE FOUNDATION PREPARATION IS COMPLETE, A MINIMUM OF 4 INCHES OF A WELL-GRADED GRANULAR MATERIAL SHALL BE PLACED AS THE BEDDING.

CONTECH BACKFILL NOTE
WHEN PLACING THE FIRST LIFTS OF BACKFILL IT IS IMPORTANT TO MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND AROUND THE PIPE HAUNCHES. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO LIFT (18") DIFFERENTIAL BETWEEN ANY OF THE PIPES AT ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHALL BE ADVANCED ALONG THE LENGTH OF THE DETENTION AND/OR TREATMENT SYSTEM AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING ON THE PIPE.

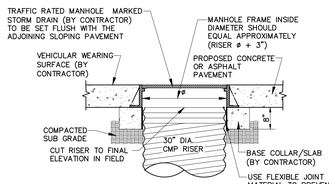
CONTECH SPECIFICATION FOR CORRUGATED STEEL PIPE-ALUMINIZED TYPE 2 STEEL NOTES

1. SCOPE
THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE CORRUGATED STEEL PIPE (CSP) DETAILED IN THE PROJECT PLANS.
2. MATERIAL
THE ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M274 OR ASTM A929.
3. PIPE
THE CSP SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M36 OR ASTM A760. THE PIPE SIZES, GAGES AND CORRUGATIONS SHALL BE AS SHOWN ON THE PROJECT PLANS.
ALL FABRICATION OF THE PRODUCT SHALL OCCUR WITHIN THE UNITED STATES.
4. HANDLING AND ASSEMBLY
SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE NATIONAL CORRUGATED STEEL PIPE ASSOCIATION (NCSPA).
5. INSTALLATION
SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION 8 OR ASTM A798 AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS, THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.
IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDE LINES FOR SAFE PRACTICES.



NOTES:
1. THE FLEXIBLE JOINT MATERIAL (RECYCLED VINYL OR EQ.) TO BE STIFF ENOUGH SO THAT THE CONCRETE CAN NEVER ENGAGE WITH THE RISER CORRUGATIONS.

MANHOLE CAP DETAIL
NOT TO SCALE



SECTION A-A
NOT TO SCALE

SITE WALL NOTE

PROPOSED BLOCK WALLS SHALL BE PLACE 2" MAXIMUM FROM PROPERTY LINE.

BUILDING SECTION NOTES

* 6" THICK REINFORCED CONCRETE SLAB OVER 15 MIL MINIMUM VAPOR RETARDER STEGOWRAP IMPERMEABLE MEMBRANE OVER 2" THICK CLEAN SAND OVER 6" THICK CLASS 2 AGGREGATE BASE OVER COMPACTED AND MOISTURE CONDITIONED CERTIFIED GROUND. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR AREAS OF DEPRESSED OR RAISED SLABS.

** 8" THICK 4,000 PSI REINFORCED CONCRETE SLAB OVER 15 MIL MINIMUM VAPOR RETARDER STEGOWRAP IMPERMEABLE MEMBRANE OVER 2" THICK CLEAN SAND OVER 6" TO 8" OF CLASS 2 AGGREGATE BASE OVER COMPACTED AND MOISTURE CONDITIONED CERTIFIED GROUND. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR AREAS OF DEPRESSED OR RAISED SLABS.

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RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
Northeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT
KELLEY NEEDHAM
C-13054
Ve3ie 03/31/27
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MARK S. LAMOUREUX
No. 38382
CIVIL
STATE OF CALIFORNIA

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
301 N. SAN DIMAS AVENUE
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397
MARK S. LAMOUREUX (R.C.E. 38382) 08-18-25
DATE

NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN: JGA	CHECKED: MSL
DATE: 07/01/2025	SCALE: AS SHOWN
PROJECT NUMBER: W21001 00AR	

GRADING AND DRAINAGE PLAN DETAIL SHEET

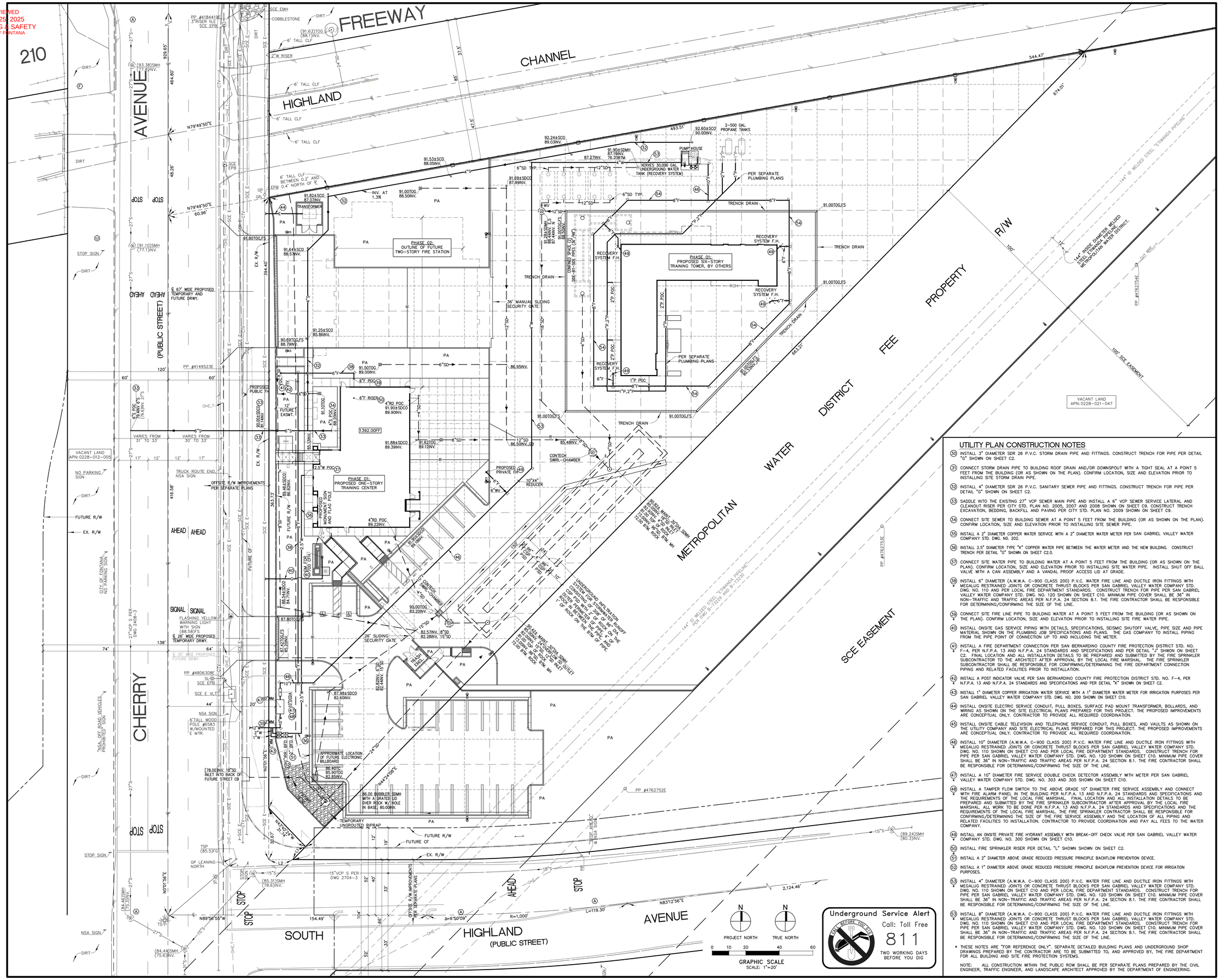
DRAWING NUMBER: C5.1

BID SET_20250818

8/19/2025 12:33:47 PM, MSL ENGINEERING, INC. (JA)

JN 20008 - 20008 C5.0gdp-C5.1gdp

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA



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NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN: JGA | CHECKED: MSL
DATE: 07/01/2025 | SCALE: AS SHOWN
PROJECT NUMBER: W21001OOAR

UTILITY PLAN

DRAWING NUMBER: C6

BID SET_20250818

JN 20038 - 20038 C6.dwt

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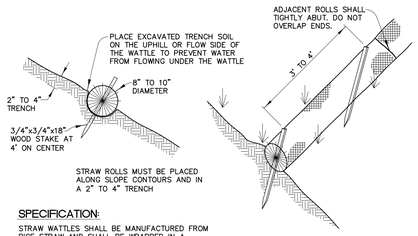
BMP LEGEND

INSTALL SLOPEGARD 3 WEIGHTED EXCELSIOR FIBER ROLL PER BMP SE-5 SUPPLIED BY KRISTAR ENTERPRISES INC. AT 800-579-8819 OR EQUIVALENT. CONTACT DRAINAGE PROTECTION SYSTEMS AT (888) 950-8826 FOR THE LOCAL SERVICE INSTALLATION AND MAINTENANCE COMPANY. SLOPEGARD 3 IS SUPPLIED IN 8" DIAMETER BY 6' LENGTHS COVERED IN A "SAFETY ORANGE" OUTER NETTING WITH A WEIGHT OF APPROXIMATELY 10 POUNDS PER FOOT. REFER TO CONSTRUCTION NOTE (101) SHOWN HEREON.

INSTALL GRAVEL BAG BERM PER SE-6 AND PER DETAIL "X" SHOWN HEREON.

FENCED AREA TO BE USED FOR VEHICLE STAGING, STORAGE, CLEANING, FUELING AND MAINTENANCE PER BMP's NS-8, NS-9 AND NS-10; CONSTRUCTION MATERIAL DELIVERY AND STORAGE PER BMP's WM-1, WM-2 AND WM-4; AND WASTE MANAGEMENT PER BMP'S WM-5, WM-8 AND WM-9.

TEMPORARY ROCK AT A STABILIZED CONSTRUCTION ENTRANCE/EXIT WITH CORRUGATED STEEL PANELS PER BMP TC-1.



STRAW ROLLS MUST BE PLACED ALONG SLOPE CONTOURS AND IN A 2" TO 4" TRENCH

SPECIFICATION:

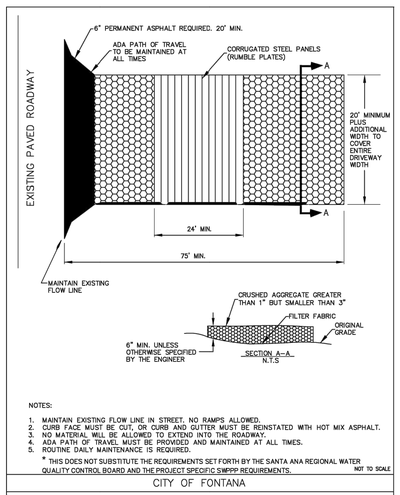
STRAW WATTLES SHALL BE MANUFACTURED FROM RICE STRAW AND SHALL BE WRAPPED IN A TUBULAR BLACK PLASTIC NETTING. THE NETTING SHALL HAVE A STRAND THICKNESS OF 0.30 INCH, A KNOT THICKNESS OF 0.055, AND A WEIGHT OF 0.35 OUNCE PER FOOT (EACH PLUS/MINUS 10%) AND SHALL BE MADE FROM 85% HIGH DENSITY POLYETHYLENE, 14% ETHYL VINYL ACETATE AND 1% COLOR FOR UV INHIBITION. STRAW WATTLES SHALL BE NINE INCHES IN DIAMETER (PLUS OR MINUS ONE INCH), TWENTY-FIVE FEET LONG (PLUS OR MINUS 0.5 FEET) AND WEIGH 35 LBS. (PLUS OR MINUS 10%).

LOCAL DISTRIBUTOR:
HYDRO-SCAPE CUSTOMER SERVICE (800) 395-4477

DETAIL "Y" (101)
STRAW WATTLES BARRIER DETAIL OPTION
NOT TO SCALE

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

Stabilized Construction Entrance/Exit TC-1



NOTES:
1. MAINTAIN EXISTING FLOW LINE IN STREET, NO RAMPS ALLOWED.
2. CURB FACE MUST BE CUT, OR CURB AND GUTTER MUST BE REINSTATED WITH HOT MIX ASPHALT.
3. NO MATERIAL WILL BE ALLOWED TO EXTEND INTO THE ROADWAY.
4. ADA PATH OF TRAVEL MUST BE PROVIDED AND MAINTAINED AT ALL TIMES.
5. ROUTINE DAILY MAINTENANCE IS REQUIRED.

* THIS DOES NOT SUBSTITUTE THE REQUIREMENTS SET FORTH BY THE SANTA ANA REGIONAL WATER QUALITY CONTROL BOARD AND THE PROJECT SPECIFIC SWPPP REQUIREMENTS.

NOT TO SCALE

CITY OF FONTANA

STABILIZED CONSTRUCTION ENTRANCE

DRAWN BY: JP

CONSTRUCTION HANDOUT NO. 1 | SHT. 1/1

PRIVATE CIVIL ENGINEER'S EROSION CONTROL PLAN GENERAL NOTES

1. THIS EROSION CONTROL PLAN WAS PREPARED AT THE REQUEST OF THE SAN BERNARDINO COUNTY FIRE DEPARTMENT FOR FIRE STATION NO. 80 BEING DEVELOPED AT THE NORTHEAST CORNER OF CHERRY AVENUE AND SOUTH HIGHLAND AVENUE, IN THE CITY OF FONTANA, COUNTY OF SAN BERNARDINO, CALIFORNIA. THE PROPOSED CONSTRUCTION ACTIVITY INCLUDES CONSTRUCTION OF A NEW TRAINING CENTER BUILDING, A SIX-STORY TRAINING TOWER, A ELECTRICAL TRANSFORMER AND ENCLOSURE, A NEW COVERED TRASH ENCLOSURE, PERIMETER CMU WALLS AND TUBE STEEL FENCING AND A NEW PAVED PARKING LOT WITH A TOTAL OF 3.9 ACRES OF TOTAL AREA CONSTRUCTED/GRADED ONSITE (2.3 ACRES) AND IN THE MWD FEE PROPERTY RIGHT-OF-WAY (1.6 ACRES).
2. THE EROSION CONTROL PLAN AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE KEPT ON SITE DURING CONSTRUCTION ACTIVITY. THE APPLICABLE BMP'S (BEST MANAGEMENT PRACTICE) LISTED ON THIS PLAN AND WITHIN THE SWPPP SHALL BE IMPLEMENTED AS SOON AS POSSIBLE TO CONTROL STORM WATER POLLUTION DURING CONSTRUCTION.
3. THROUGHOUT THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL HAVE A STATE CERTIFIED QUALIFIED SWPPP DEVELOPER (QSD) ASSIGNED TO THE PROJECT IN ACCORDANCE WITH SECTION VII OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITY (CONSTRUCTION GENERAL PERMIT). THE QSD IS RESPONSIBLE FOR ALL CHANGES TO THE PROJECT SWPPP AND EROSION CONTROL PLAN.
4. THROUGHOUT THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL HAVE A STATE CERTIFIED QUALIFIED SWPPP PRACTITIONER (QSP) ASSIGNED TO THE PROJECT IN ACCORDANCE WITH SECTION VII OF THE CONSTRUCTION GENERAL PERMIT (CGP). THE QSP IS RESPONSIBLE FOR IMPLEMENTATION OF ALL ASPECTS OF THE EROSION CONTROL PLAN, THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND THE SWPPP SPECIFICATIONS.
5. THE QSP OR PERSONNEL TRAINED BY THE QSP ARE RESPONSIBLE FOR PROVIDING WEEKLY, QUARTERLY, PRE-STORM, DURING STORM AND POST STORM BMP INSPECTIONS IN ACCORDANCE TO THE SWPPP. ALL INSPECTION RECORDS SHALL BE KEPT ONSITE FOR THE DURATION OF THE PROJECT.
6. ALL CONTRACTORS AND THEIR PERSONNEL WHOSE WORK CAN CONTRIBUTE TO OR CAUSE STORM WATER POLLUTION SHOULD BE MADE FAMILIAR WITH THIS PLAN AND THE SWPPP. ADEQUATE TRAINING FOR THE IMPLEMENTATION OF THE MEASURES PRESENTED HEREIN SHALL BE PROVIDED BY THE CONTRACTORS FOR THEIR PERSONNEL.
7. CHANGES IN CONSTRUCTION OR IN CONDITIONS WHICH ARE NOT COVERED BY THIS PLAN SHOULD BE BROUGHT TO THE ATTENTION OF THE QSD. IF NECESSARY THIS PLAN WILL BE REVISED TO REFLECT THE CHANGES.
8. ALL PREVENTION AND CLEAN UP MEASURES SHALL BE CONDUCTED IN ACCORDANCE WITH CITY AND COUNTY ORDINANCES, AS WELL AS STATE, AND FEDERAL REGULATIONS. WASTE MATERIALS SHOULD BE DISPOSED OF IN A LEGAL MANNER.
9. ONLY STORM WATER FROM THE PROJECT SITE SHALL BE ALLOWED TO FLOW INTO THE PUBLIC STORM DRAIN SYSTEM. REGULAR INSPECTION OF THE STRUCTURAL AND NON-STRUCTURAL BEST MANAGEMENT PRACTICES USED ON THIS PROJECT SHALL BE PERFORMED IN CONFORMANCE WITH THE SWPPP TO INSURE PROPER OPERATION.
10. ON A DAILY BASIS, AS-NECESSARY, AND AFTER CONSTRUCTION HAS BEEN COMPLETED, THE SITE HARDSCAPE AND ADJOINING STREETS AND SIDEWALKS SHALL BE SWEPT CLEAN. ALL WASTE AND LEFTOVER MATERIALS SHALL BE REMOVED FROM THE SITE. ALL LANDSCAPING AND PLANTING AREAS SHALL BE WELL MAINTAINED TO PREVENT EROSION. AVOID OVERWATERING.
11. DISTURBED SOILS SHALL BE WATERED AS OFTEN AS NECESSARY TO KEEP SOIL VISIBLY DAMP DURING GRADING AND CONSTRUCTION TO MINIMIZE DUST GENERATION. COMPLY WITH AQMD RULE 403 TO INSURE THE CLEANUP OF CONSTRUCTION RELATED DIRT ON APPROACH ROUTES TO THE SITE.
12. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM GRAVEL BAG BARRIERS.
13. KIMBERLY YOUNG, CITY SENIOR ENGINEER (UNTIL A QSP HIRED BY THE GENERAL CONTRACTOR HAS BEEN ASSIGNED) SHALL BE NOTIFIED AT (909) 350-7632 IN AN EMERGENCY.
14. THE QSP SHALL PREPARE AN ANNUAL REPORT FOR EACH REPORTING PERIOD FROM JULY 1st TO JUNE 30th. THE ANNUAL REPORT SHALL INCLUDE STORMWATER MONITORING INFORMATION AND DOCUMENTATION OF ALL TRAINING AND BMP INSPECTIONS.
15. WITHIN 90 DAYS OF THE FINAL COMPLETION OF CONSTRUCTION THE QSP SHALL ELECTRONICALLY FILE A NOTICE OF TERMINATION (NOT) THROUGH SMARTS AND UPLOAD A FINAL SITE MAP AND PHOTOS. ADDITIONALLY THE QSP SHALL UPLOAD THE FINAL ANNUAL REPORT.
16. I DO HEREBY CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WILL BE CARRIED OUT UNDER MY DIRECTION AND SUPERVISION. I UNDERSTAND THAT AT THE CONCLUSION OF THIS PROJECT, I WILL BE REQUIRED TO SUBMIT CERTIFICATION THAT ALL ELEMENTS OF THIS PROJECT WERE CARRIED OUT IN ACCORDANCE WITH THIS EROSION CONTROL PLAN AND ALL OF ITS ATTACHMENTS.

KIMBERLY YOUNG, CITY PUBLIC WORKS DEPARTMENT SENIOR CIVIL ENGINEER (UNTIL A QSP HIRED BY THE GENERAL CONTRACTOR HAS BEEN ASSIGNED) — NAME — 07-01-25 DATE

PROJECT N.P.D.E.S. COORDINATOR — TITLE — (909) 350-7632 TELEPHONE NUMBER

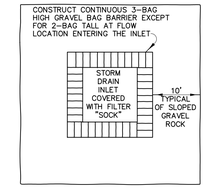
LIST OF MAJOR CONSTRUCTION MATERIALS, WASTE AND ACTIVITIES AT THE PROJECT SITE

1. CONCRETE PAVEMENT.
2. CONCRETE CURBS AND WALKS.
3. ENCLOSURES.
4. UTILITY SERVICES TO PROPOSED BUILDINGS.
5. PARKING LOT LIGHTS.
6. LANDSCAPING AND IRRIGATION.
7. CONSTRUCTION OF A NEW BUILDING AND TRAINING TOWER.
8. CONCRETE BLOCK WALLS AND FENCES
9. EARTHWORK MOVED AND GRADED.

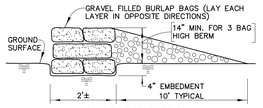
EROSION CONTROL CONSTRUCTION NOTES

(100) INSTALL GRAVEL BAG BARRIER PER DETAIL "X" SHOWN ON SHEET C7 AND PER BMP SE-6. WHEN THIS BARRIER IS INSTALLED AROUND A DRAIN BOX, STORM DRAIN, OR CATCH BASIN INLET, INSTALL A PERMEABLE FILTER FABRIC ON TOP OF THE INLET TO PREVENT SILT FROM ENTERING THE INLET.

(101) INSTALL BMP SE-5 STRAW WATTLES FIBER ROLL BARRIER PER DETAIL "Y" SHOWN HEREON AS AN ACCEPTABLE SUBSTITUTION TO THE SLOPEGARD MATERIAL CALLED OUT TO INSTALL ON THIS PLAN.



DRAINAGE INLET AREA



GRAVEL BAG BARRIER

DETAIL "X" (100)
STORM INLET GRAVEL BAG
PROTECTION DETAIL AND BARRIER DETAIL OPTION
NOT TO SCALE

LIST OF BEST MANAGEMENT PRACTICES (BMP's)-USE AS APPLICABLE

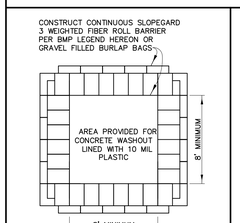
(REFERENCE: CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE HANDBOOK FOR CONSTRUCTION ACTIVITY, NOVEMBER 2009)

EROSION AND SEDIMENT CONTROL BMP's

EC-1 SCHEDULING
EC-2 PRESERVATION OF EXISTING VEGETATION
EC-3 HYDRAULIC MULCH
EC-4 HYDROSEEDING
EC-5 SOIL BINDERS
EC-6 STRAW MULCH
EC-7 GEOTEXTILES AND MATS
EC-8 WOOD MULCHING
EC-9 EARTH DIKES AND DRAINAGE SWALES
EC-10 VELOCITY DISSIPATION DEVICES
EC-11 SLOPE DRAINS
EC-12 STREAMBANK STABILIZATION
EC-13 POLYACRYLAMIDE
SE-1 SILT FENCE
SE-2 SEDIMENT BASIN
SE-3 SEDIMENT TRAP
SE-4 CHECK DAM
SE-5 FIBER ROLLS (SEE BMP LEGEND HEREON)
SE-6 GRAVEL BAG BERM
SE-7 STREET SWEEPING AND VACUUMING
SE-8 SANDBAG BARRIER
SE-9 STRAW BALE BARRIER
SE-10 STORM DRAIN INLET PROTECTION
WE-1 WIND EROSION CONTROL
TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT
TC-2 STABILIZED CONSTRUCTION ROADWAY
TC-3 ENTRANCE/OUTLET TIRE WASH

NON-STORMWATER MANAGEMENT AND MATERIAL MANAGEMENT (BMP's)

NS-1 WATER CONSERVATION PRACTICES
NS-2 DEWATERING OPERATIONS
NS-3 PAVING AND GRINDING OPERATIONS
NS-4 TEMPORARY STREAM CROSSING
NS-5 CLEAR WATER DIVERSION
NS-6 ILLICIT CONNECTION/DISCHARGE
NS-7 POTABLE WATER/IRRIGATION
NS-8 VEHICLE AND EQUIPMENT CLEANING
NS-9 VEHICLE AND EQUIPMENT FUELING
NS-10 VEHICLE AND EQUIPMENT MAINTENANCE
NS-11 PILE DRIVING OPERATIONS
NS-12 CONCRETE CURING
NS-13 CONCRETE FINISHING
NS-14 MATERIAL AND EQUIPMENT USE
NS-15 DEMOLITION ADJACENT TO WATER
NS-16 TEMPORARY BATCH PLANTS
WM-1 MATERIAL DELIVERY AND STORAGE
WM-2 MATERIAL USE
WM-3 STOCKPILE MANAGEMENT
WM-4 SPILL PREVENTION AND CONTROL
WM-5 SOLID WASTE MANAGEMENT
WM-6 HAZARDOUS WASTE MANAGEMENT
WM-7 CONTAMINATED SOIL MANAGEMENT
WM-8 CONCRETE WASTE MANAGEMENT
WM-9 SANITARY/SEPTIC WASTE MANAGEMENT
WM-10 LIQUID WASTE MANAGEMENT



DETAIL "W"
CONCRETE WASHOUT AREA
NOT TO SCALE

Underground Service Alert
DIG ALERT
Call: Toll Free
811
TWO WORKING DAYS BEFORE YOU DIG

PBK

RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
Northeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

CONSULTANT
M S L E N G I N E E R I N G, I N C.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
301 N. SAN DIMAS AVENUE
SAN DIMAS, CA 91773
(909) 305-2395 FAX (909) 305-2397

Mark S. Lamoureux — 08-18-25
MARK S. LAMOUREUX (R.C.E. 38382) DATE

NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN: JGA	CHECKED: MSL
DATE: 07/01/2025	SCALE: AS SHOWN
PROJECT NUMBER: W2100100AR	

EROSION CONTROL PLAN
TITLE SHEET

DRAWING NUMBER: C7

BID SET_20250818

8/18/2025 12:33:59 PM, MSL ENGINEERING, INC. (JA)

JN 20038-20038 C7ecpta

REVIEWED
Aug 25, 2025
BUILDING & SAFETY
CITY OF FONTANA

FREEWAY
CHANNEL
HIGHLAND
SOUTH HIGHLAND AVENUE (PUBLIC STREET)
METROPOLITAN WATER DISTRICT FEE PROPERTY
SCE EASEMENT
R/W
DIRT
COBBLESTONE
6' TALL CLF
2"W RISER
CTVPB
SCE EMH
PP #4184419E
3"RISER N.E.
SCE EPB
(91.63)TOG
(88.13)INV.
CTV MH
PP #4762754E
144" ID WELDED STEEL "ETIWANDA PIPELINE"
144" HORIZ. DIAMETER WELDED STEEL ETIWANDA PIPELINE METROPOLITAN WATER DISTRICT
OHE,T
SCE EPB
GP
N79°49'50"E
464.65'
48.26'
60.96'
374.45'
416.58'
544.47'
674.01'
665.21'
100'
VACANT LAND
APN: 0228-021-047
XEREX 30,000 GAL. UNDERGROUND WATER TANK (WATER RECOVERY SYSTEM)
PUMP HOUSE (WATER RECOVERY SYSTEM)
2-500 GAL. PROPANE TANKS
TRANSFORMER
PHASE 02: OUTLINE OF FUTURE TWO-STORY FIRE STATION
FUTURE 1392.00FF
PHASE 01: PROPOSED SIX-STORY TRAINING TOWER, BY OTHERS
1391.60FF
TRENCH DRAIN
CONFINED SPACE (2) SEE SHT. C5 FOR DETAILS
ROH
36' MANUAL SLIDING SEQURITY GATE
PHASE 01: PROPOSED ONE-STORY TRAINING CENTER
1392.00FF
5-6" RISERS
13' RAMP AT 7.2%
RAMP AT 7.2%
PROPOSED MONUMENT SIGN W/ A FLAG POLE
TEMPORARY LOCATION AND SIZE OF ROCK AND CORRUGATED STEEL PLATES AT A STABILIZED CONSTRUCTION ENTRANCE/EXIT PER CALIFORNIA BMP HANDBOOK (2009) NO. TC-1
CONSTRUCTION MATERIAL DELIVERY AND STORAGE PER BMP's WM-1, WM-2, AND WM-4; WASTE MANAGEMENT PER BMP WM-5; SANITARY/SEPTIC WASTE MANAGEMENT STORAGE, CLEANING, FLUSHING AND EQUIPMENT STAGING PER BMP's NS-8, NS-9, AND NS-10; MAINTENANCE PER
APPROXIMATE LOCATION OF CONCRETE WASHOUT AREA OR DROP OFF BOX PER CALIFORNIA BMP HANDBOOK (2009) NO. WM-8
26' SLIDING SECURITY GATE
TRASH ENCL.
SIGNAL
FLASHING YELLOW WARNING LIGHT WITH SIGN (88.58)FS TO BE RELOCATED
NSA SIGN
6"TALL WOOD POLE #6583 W/MOUNTED E MTR.
TRUCK ROUTE END NSA SIGN
AHEAD
STOP
SCE E VLT
PP #4806308E
SI-35
SCE EPB
PP #4149523E
TSP (85.5)FG
GP LEANING NORTH
(85.31)SMH (78.6)INV.
(89.24)SMH (80.3)INV.
UNGROUTED RIPRAP
FUTURE R/W
FUTURE CF
EX. R/W
FUTURE R/W
TOP ANGLE & MSS SIGN
PP #4762752E
SCE EASEMENT
144" ID WELDED STEEL "ETIWANDA PIPELINE"
N89°56'55"W
154.49'
N83°12'56"E
L=119.30'
R=1,000'
Δ=6°50'09"
N44°24'06"E
N40°40'27"W
30.47'
N00°01'56"E
BMP SE-5
BMP SE-6
BMP SE-7
101
100

N PROJECT NORTH
N TRUE NORTH
0 10 20 40 60
GRAPHIC SCALE
SCALE: 1"=20'

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
Northeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT
KELLEY NEEDHAM
C-19064
Exp 03/31/27
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MARK S. LAMOUREUX
No. 38382
CIVIL
STATE OF CALIFORNIA

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
301 N. SAN DIMAS AVENUE
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397
Mark S. Lamoureux 08-18-25
MARK S. LAMOUREUX (R.C.E. 38382) DATE

NO	DATE	BY	DESCRIPTION
1			REVISIONS

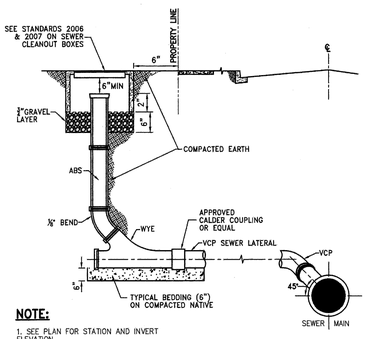
DRAWN: JGA | CHECKED: MSL
DATE: 07/01/2025 | SCALE: AS SHOWN
PROJECT NUMBER: W2100100AR

EROSION CONTROL PLAN

DRAWING NUMBER: C8

JN 20035-20038 C:\escp

8/18/2025 12:34:05 PM; MSL ENGINEERING, INC. (JA)
BID SET_20250818



NOTE:

1. SEE PLAN FOR STATION AND INVERT ELEVATION.

CONSTRUCTION NOTES:

1. RESIDENTIAL SEWER SHALL BE 4" MINIMUM, ABS OR APPROVED EQUAL.
2. ALL APARTMENT, COMMERCIAL SEWER CONNECTIONS SHALL BE 6" V.C.P. SEWER LATERAL WITH ABS RISER.
3. BACKFILL SHOULD BE UNIFORMLY GRADED AND FREE OF ROCKS, STONES, ETC. GREATER THAN TWO (2) INCHES IN DIAMETER.
4. CONCRETE BOX SHALL BE INSTALLED WHENEVER LATERAL RISER WILL BE IN A CONCRETE AREA, ie, DRIVEWAY. SEE STANDARD 2006.
5. PLASTIC BOX SHALL BE INSTALLED WHENEVER LATERAL RISER WILL BE IN LANDSCAPE AREA. SEE STANDARD 2007.
6. JIM CAP BAND AND SEAL CAP. NO SCREW CAPS.
7. AFTER SEWER CONNECTION IS MADE VIDEO INSPECTION WILL BE REQUIRED FOR SUBMITTAL AND APPROVAL. VIDEO FOOTAGE SHALL PROVIDE CLEAR VIEW OF INSIDE DIAMETER OF PIPE, WITH THE ABILITY TO IDENTIFY CRACKS, OFFSETS, SAGS, OR IMPERFECTIONS.
8. BACKFILL WITH STD. 306B

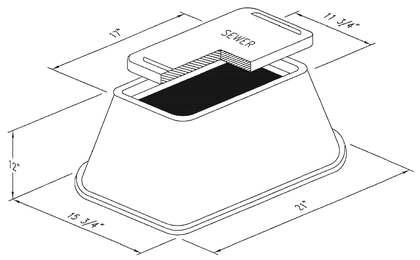
NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 CIVIL STATE OF CALIFORNIA

APPROVED BY: _____ DATE 12-15-14
CITY ENGINEER
RICARDO SANDOVAL
REVIEWED BY: J.W.
REVISION NUMBER: 2

CITY OF FONTANA
SEWER LATERAL CLEANOUT
10/6/2011
STD. PLAN NO. **2005** | SHT **1** OF **1**

1419 OR 1419T SERIES COVER



1419 SERIES BODY

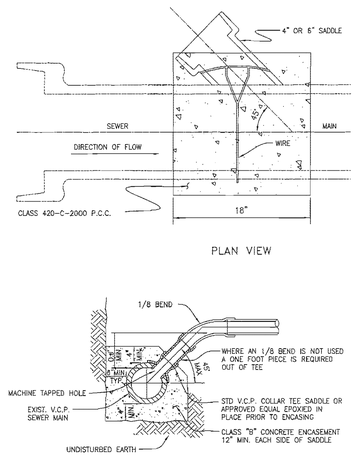
1. THE CLEANOUT BOX TO BE A BROOKS NO. 1419 SERIES WITH PLASTIC COVER OR EQUAL.
2. BOX TO BE INSTALLED TO ALLOW MAXIMUM ACCESS TO PROPERTY LINE CLEANOUT.
3. THIS PLASTIC BOX IS TO BE INSTALLED WHENEVER THE V.C.P. LATERAL RISER WILL BE IN A LANDSCAPE AREA.

NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 EXP. 9/30/07 CIVIL STATE OF CALIFORNIA

APPROVED BY: _____ DATE 10.18.06
CITY ENGINEER
RICARDO SANDOVAL
REVIEWED BY: DG
REVISION NUMBER: _____

CITY OF FONTANA
PLASTIC SEWER CLEANOUT BOX
07/10/06
STD. PLAN NO. **2007** | SHT **1** OF **1**



NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 EXP. 9/30/07 CIVIL STATE OF CALIFORNIA

APPROVED BY: _____ DATE 10.18.06
CITY ENGINEER
RICARDO SANDOVAL
REVIEWED BY: DG
REVISION NUMBER: _____

CITY OF FONTANA
SEWER SADDLE
07/10/06
STD. PLAN NO. **2008** | SHT **1** OF **2**

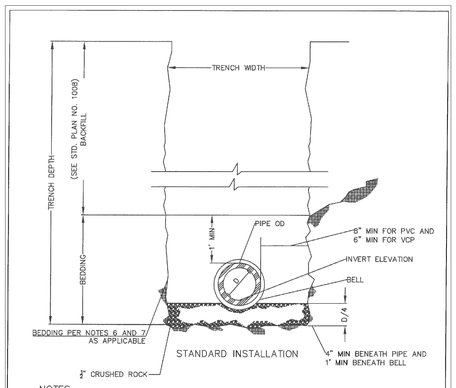
NOTES:

1. A WYE OR TEE SADDLE SHALL BE INSTALLED BY CUTTING A NEAT HOLE CONFORMING TO THE INSIDE DIAMETER OF THE SADDLE WHEN USING A SADDLE WITHOUT COLLAR AS SHOWN IN EPOXY RESIN JOINT DETAIL. WHEN USING A SADDLE WITH COLLAR THE DIAMETER OF THE HOLE SHALL BE OUTSIDE DIAMETER PLUS 1/8" AS SHOWN IN CEMENT COLLAR JOINT DETAIL.
2. BROKEN PIECES FROM CUTTING OF THE MAIN LINE SEWER MUST BE EXTRACTED CAREFULLY PRIOR TO PLACEMENT OF THE SADDLE.
3. THE SADDLE SHALL BE CEMENTED INTO PLACE USING CLASS "D" CEMENT MORTAR OR OTHER CEMENTING AGENT APPROVED BY THE DEPARTMENT. THE SADDLE SHALL BE HELD SECURELY IN PLACE WHILE THE CEMET OR OTHER APPROVED CEMENTING AGENT SETS. THE INSIDE OF THE JOINT BETWEEN PIPE AND SADDLE SHALL BE FILLED WITH CEMENTING MATERIAL AND NEATLY ROUNDED.

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 EXP. 9/30/07 CIVIL STATE OF CALIFORNIA

APPROVED BY: _____ DATE 10.18.06
CITY ENGINEER
RICARDO SANDOVAL
REVIEWED BY: DG
REVISION NUMBER: _____

CITY OF FONTANA
SEWER SADDLE
07/10/06
STD. PLAN NO. **2008** | SHT **2** OF **2**



NOTES

1. FOR TRENCH RESURFACING IN IMPROVED STREETS SEE STANDARD DRAWING 1008.
2. DEPTH OF COVER, FROM THE TOP OF PIPE TO FINISH GRADE, FOR THE PVC SDR 26 SEWER MAIN SHALL BE A MINIMUM OF 5' AND A MAXIMUM OF 20'. FOR DEPTHS LESS THAN 5' AND GREATER THAN 20', A SPECIAL DESIGN APPROVED BY THE CITY ENGINEER IS REQUIRED.
3. ALL PVC SEWER PIPES TO BE SDR-26 AND ALL VCP SEWER PIPES TO BE EXTRA STRENGTH.

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 CIVIL STATE OF CALIFORNIA

APPROVED BY: _____ DATE 10-20-20
CITY ENGINEER
RICARDO SANDOVAL
REVIEWED BY: _____
DRAWN BY: JP

CITY OF FONTANA
PIPE BEDDING DETAIL FOR PVC AND VCP SEWERS
STD. PLAN NO. 2009 | DWG. 1/2

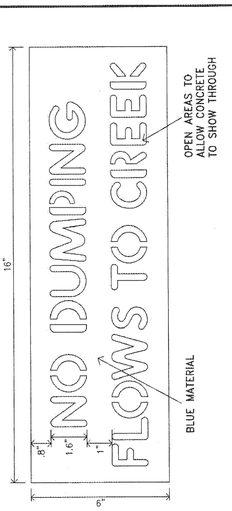
NOTES

4. PVC – USE ELASTOMERIC GASKET JOINT PER GB207-17.3.2.
5. VCP – USE TYPE "G" JOINTS PER GB306-7.4.2.3.
6. VCP BEDDING SHALL BE SAND, GRAVEL, OR CRUSHED AGGREGATE HAVING A SAND EQUIVALENT OF NOT LESS THAN 30 OR A COEFFICIENT OF PERMEABILITY GREATER THAN 1.5" PER HOUR PER GREENBOOK SECTION 217-1.
9. PVC BEDDING SHALL BE CRUSHED ROCK WITH A MAXIMUM GRADATION OF ¾" PER GREENBOOK SECTION 217-1.2 AND CONFORMING TO TABLE 200-1.2.1 (A).

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 CIVIL STATE OF CALIFORNIA

APPROVED BY: _____ DATE 10-20-20
CITY ENGINEER
RICARDO SANDOVAL
REVIEWED BY: _____
DRAWN BY: JP

CITY OF FONTANA
PIPE BEDDING DETAIL FOR PVC AND VCP SEWERS
STD. PLAN NO. 2009 | DWG. 2/2



NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 CIVIL STATE OF CALIFORNIA

APPROVED BY: _____ DATE 10-18-06
CITY ENGINEER
RICARDO SANDOVAL
REVIEWED BY: DG
DATE OF LAST REVISION: _____

CITY OF FONTANA
STORM DRAIN INLET SIGNAGE
07/10/06
STD. PLAN NO. **6002** | SHT **1** OF **2**

STORM DRAIN INLET EDUCATION SIGNAGE

USE: A DURABLE, HIGH SKID RESISTANT, REFLECTIVE PAVEMENT SIGNAGE MATERIAL TO BE ON STORM DRAIN INLETS.

REQUIREMENTS:

1. THE MARKINGS MUST BE A RESILIENT BLUE THERMOPLASTIC, WHEREIN EVERY OTHER SHAPED PORTION CONTAINS GLASS BEADS, OR ABRASIVES WITH A MINIMUM HARDNESS OF 7 (MOBS SCALE). THE MARKINGS MUST BE RESISTANT TO THE DETRIMENTAL EFFECTS OF MOTOR FUELS, LUBRICANTS, HYDRAULIC FLUIDS, ETC. SIGNAGE MUST BE CAPABLE OF BEING AFFIXED TO BITUMINOUS AND/OR PORTLAND CEMENT CONCRETE PAVEMENTS BY THE USE OF THE NORMAL HEAT OF A PROPANE TORCH.
2. THE MARKINGS MUST BE CAPABLE OF CONFORMING TO PAVEMENT CONTOURS, BREAKS AND FAULTS THROUGH THE ACTION OF TRAFFIC AT NORMAL PAVEMENT TEMPERATURES. THE SIGNAGE SHALL HAVE RESEALING CHARACTERISTICS SUCH THAT IT IS CAPABLE OF FUSING WITH ITSELF AND PREVIOUSLY APPLIED THERMOPLASTIC WHEN HEATED WITH A TORCH.
3. THE MARKINGS MUST BE ABLE TO BE APPLIED IN TEMPERATURES DOWN TO 32°F WITHOUT ANY SPECIAL STORAGE, PREHEATING OR TREATMENT OF THE MATERIAL BEFORE APPLICATION.

MATERIAL:

1. MUST BE COMPOSED OF AN ESTER MODIFIED ROSIN RESISTANT TO DEGRADATION BY MOTOR FUELS, LUBRICANTS ETC. IN CONJUNCTION WITH AGGREGATES, PIGMENTS, BINDERS, ABRASIVES, AND GLASS BEADS WHICH HAVE BEEN FACTORY PRODUCED AS A FINISHED PRODUCT, AND MEETS THE REQUIREMENTS OF THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. GRADED GLASS BEADS:
   THE MATERIAL MUST CONTAIN A MINIMUM OF THIRTY PERCENT (30%) INTERMIXED GRADED GLASS BEADS BY WEIGHT. THE INTERMIXED BEADS SHALL BE CLEAR AND TRANSPARENT. NOT MORE THAN TWENTY PERCENT (20%) CONSISTS OF IRREGULAR FUSED SPHEROIDS, OR SILICA. THE INDEX OF REFRACTION SHALL NOT BE LESS THAN 1.50. THE MATERIAL MUST HAVE FACTORY APPLIED COATED SURFACE BEADS AND ABRASIVES IN ADDITION TO THE INTERMIXED BEADS AT A RATE OF 1/2LB. (±20%)PER 11 SQ. FT. THE SURFACE BEADS AND ABRASIVES MUST BE APPLIED SO THAT EVERY OTHER SHAPED PORTION CONTAINS GLASS BEADS, OR ABRASIVES WITH A MINIMUM HARDNESS OF 7 (MOHS SCALE).
3. PIGMENTS:
   BLUE: SUFFICIENT PIGMENT IS TO BE USED TO ENSURE A COLOR SIMILAR TO FEDERAL HIGHWAY BLUE, AS PER FEDERAL STANDARD.
4. HEATING INDICATORS: THE TOP SURFACE OF THE MATERIAL (SAME SIDE AS THE FACTORY APPLIED SURFACE BEADS) SHALL HAVE REGULARLY SPACED INDENTS. THESE INDENTS SHALL ACT AS A VISUAL CUE DURING APPLICATION THAT THE MATERIAL HAS REACHED A MOLTEN STATE SO SATISFACTORY ADHESION AND PROPER BEAD EMBEDMENT HAS BEEN ACHIEVED AND A POST-APPLICATION VISUAL CUE THAT THE INSTALLATION PROCEDURES HAVE BEEN FOLLOWED.
5. SKID RESISTANCE: THE SURFACE OF THE PREFORMED REFLECTIVE MARKING MATERIAL, WHEREIN EVERY OTHER SHAPED PORTION CONTAINS GLASS BEADS, OR ABRASIVES WITH A MINIMUM HARDNESS OF 1 (MOBS SCALE), SHALL UPON APPLICATION PROVIDE A MINIMUM SKID RESISTANCE VALUE OF 60 BPN WHEN TESTED ACCORDING TO ASTM: E303.
6. THICKNESS: THE MATERIAL MUST BE SUPPLIED AT A MINIMUM, THICKNESS OF 90 MILS OR 125 MILS.
7. REFLECTIVITY: THE PERFORMED REFLECTIVE MARKING MATERIALS UPON APPLICATION SHALL EXHIBIT ADEQUATE NIGHTTIME REFLECTIVITY.
8. ENVIRONMENTAL RESISTANCE: THE MATERIAL MUST BE RESISTANT TO DETERIORATION DUE TO EXPOSURE TO SUNLIGHT, WATER, SALT OR ADVERSE WEATHER CONDITIONS AND IMPERVIOUS TO OIL AND GASOLINE.
9. ABRASIVES: THE MATERIAL MUST HAVE FACTORY APPLIED SURFACE ABRASIVES, WHEREIN EVERY OTHER SHAPED PORTION CONTAINS GLASS BEADS, OR ABRASIVES WITH A MINIMUM HARDNESS 7 (MOBS SCALE).
10. THE PREFORMED SIGNAGE SHALL MEET STATE SPECIFICATIONS AND BE APPROVED FOR USE BY THE CITY OF FONTANA.

TECHNICAL SERVICES: THE SUCCESSFUL BIDDER SHALL PROVIDE TECHNICAL SERVICES AS REQUIRED.

PACKAGING: THE PREFORMED SIGNAGE SHALL BE PLACED IN PROTECTIVE FILM WITH CARDBOARD STIFFENERS WHERE NECESSARY TO PREVENT DAMAGE IN TRANSIT. THE CARTONS IN WHICH PACKED SHALL BE NON-RETURNABLE AND SHALL NOT EXCEED 40" IN LENGTH AND 25" IN WIDTH, AND BE LABELED FOR EASE OF IDENTIFICATION. THE WEIGHT OF THE INDIVIDUAL CARTON MUST NOT EXCEED SEVENTY (70) POUNDS. A PROTECTIVE FILM MUST BE APPLIED AROUND THE BOX IN ORDER TO PROTECT THE MATERIAL FROM RAIN OR PREMATURE AGING.

APPLICATION: THE MATERIALS SHALL BE APPLIED USING THE PROPANE TORCH METHOD RECOMMENDED BY THE MANUFACTURER. THE MATERIAL MUST BE ABLE TO BE APPLIED AT AMBIENT AND ROAD TEMPERATURES DOWN TO 32°F WITHOUT ANY PREHEATING OF THE PAVEMENT TO A SPECIFIC TEMPERATURE. THE MATERIAL MUST BE ABLE TO BE APPLIED WITHOUT THE USE OF A THERMOMETER. THE PAVEMENT SHALL BE CLEAN, DRY AND FREE OF DEBRIS. SUPPLIER MUST ENCLOSE APPLICATION INSTRUCTIONS WITH EACH BOX/PACKAGE.

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 EXP. 9/30/07 CIVIL STATE OF CALIFORNIA

APPROVED BY: _____ DATE 10-18-06
CITY ENGINEER
RICARDO SANDOVAL
REVIEWED BY: DG
DATE OF LAST REVISION: _____

CITY OF FONTANA
STORM DRAIN INLET SIGNAGE
07/10/06
STD. PLAN NO. **6002** | SHT **2** OF **2**

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

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8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
Northeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT KELLEY NEEDHAM C-19064 Exp. 03/31/27 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER MARK S. LAMOUREUX No. 38382 CIVIL STATE OF CALIFORNIA

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
301 N. SAN DIMAS AVENUE
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397
MARK S. LAMOUREUX (R.C.E. 38382) 08-18-25 DATE

NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN: JGA	CHECKED: MSL
DATE: 07/01/2025	SCALE: AS SHOWN
PROJECT NUMBER: W2100100AR	

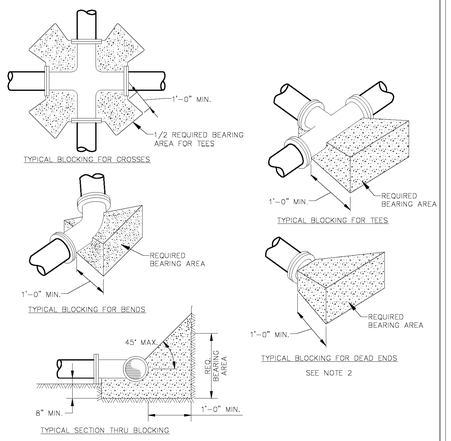
CITY STANDARD DRAWINGS

DRAWING NUMBER: C9

BID SET_20250818

8/18/2025 12:34:14 PM, MSL ENGINEERING, INC. (JA)

JN 20038-20038 C9cad



BEARING AREA OF CONC. BLOCKING (SQ. FT.)
BASED ON SOIL BEARING VALUE OF 1000 LB./SQ. FT.

FITTING SIZE	4"	6"	8"	10"	12"	14"	15"	18"	24"
11-1/4° BENDS	1	2	2	3.5	4.5	6.5	8.5	10.5	18.5
22-1/2° BENDS	1.5	3.5	4	6.5	9.5	12.5	16.5	21	37
45° BENDS	3	7	8	12.5	18	25	32.5	41	73
90° BENDS	5.5	12.5	15	23.5	33.5	46	60	75.5	134.5
TEES	4	9	10.5	16.5	24	32.5	42.5	53.5	95
DEAD ENDS	4	9	10.5	16.5	24	32.5	42.5	53.5	95

NOTES:
1. BLOCKING SHALL BE 5 SACKS PER CU. YD. CONCRETE. ALL BLOCKING SHALL BE POURED AGAINST UNDISTURBED SOIL.
2. WHERE FLUSH OUT PIPING WILL BE INSTALLED NO DEAD END BLOCKING IS REQUIRED.

SAN GABRIEL VALLEY WATER COMPANY
11142 EAST GARVEY AVENUE
P.O. BOX 6010 EL MONTE, CALIFORNIA 91734

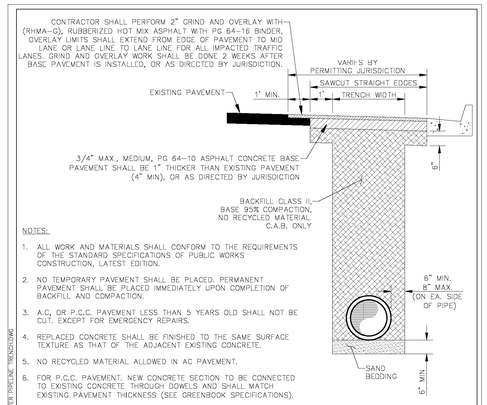
STANDARD DRAWING 110

TYPICAL CONCRETE THRUST BLOCKS

No.	DATE	WHAT	APP
REVISIONS			

DRAWN BY: JRR | SCALE: NTS
DATE 03/01/2023 | REV'D BY:
APPROVED BY: DATE
SHEET 1 OF 1 SHEETS

K:\TRASTATION\AUTOCAD\STD-DRAWINGS\STD TYPICAL CONCRETE THRUST BLOCKS.DWG
7/17/2023 3:31 PM



NOTES:
1. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
2. NO TEMPORARY PAVEMENT SHALL BE PLACED. PERMANENT PAVEMENT SHALL BE PLACED IMMEDIATELY UPON COMPLETION OF BACKFILL AND COMPACTION.
3. A.C. OR P.C.C. PAVEMENT LESS THAN 5 YEARS OLD SHALL NOT BE CUT, EXCEPT FOR EMERGENCY REPAIRS.
4. REPLACED CONCRETE SHALL BE FINISHED TO THE SAME SURFACE TEXTURE AS THAT OF THE ADJACENT EXISTING CONCRETE.
5. NO RECYCLED MATERIAL ALLOWED IN AC PAVEMENT.
6. FOR P.C.C. PAVEMENT, NEW CONCRETE SECTION TO BE CONNECTED TO EXISTING CONCRETE THROUGH DOWELS AND SHALL MATCH EXISTING PAVEMENT THICKNESS (SEE GREENBOOK SPECIFICATIONS).
7. ALL REQUIREMENTS APPLY UNLESS WAIVED IN WRITING BY SGVWC.
8. ALL BITUMINOUS MATERIALS DEPOSITED OVER EXISTING PAVEMENT STRIPING MUST BE CLEANED. ALL EXISTING STRIPING AND PAVEMENT MARKINGS TO BE REPAINTED ON STREETS WHERE TRENCH CONSTRUCTION TAKES PLACE.
9. THE DIFFERENTIAL PAVEMENT SETTLEMENT BETWEEN THE TRENCH AND ADJACENT STREET SURFACE SHOULD NOT EXCEED 0.125", IF THAT ALLOWANCE IS EXCEEDED 3 MONTHS AFTER TRENCH RESURFACING, TRENCH WORK TO BE REDONE BY APPLICANT.
10. COMPACTION TESTING REPORTS ARE REQUIRED, UNLESS WAIVED BY SGVWC.
11. ALL WATER TRENCH, PAVEMENT REPLACEMENT, GRIND AND CAP WORK SHALL REFER TO APPROPRIATE GOVERNMENTAL AGENCY SPECIFICATIONS FOR BACKFILL AND PAVING REQUIREMENTS.

SAN GABRIEL VALLEY WATER COMPANY
11142 EAST GARVEY AVENUE
P.O. BOX 6010 EL MONTE, CALIFORNIA 91734

STANDARD DRAWING 120

WATER PIPELINE TRENCH

No.	DATE	WHAT	APP
REVISIONS			

DRAWN BY: JRR | SCALE: NTS
DATE 03/01/2023 | REV'D BY:
APPROVED BY: DATE
SHEET 1 OF 1 SHEETS

K:\TRASTATION\AUTOCAD\STD-DRAWINGS\STD WATER PIPELINE TRENCH.DWG
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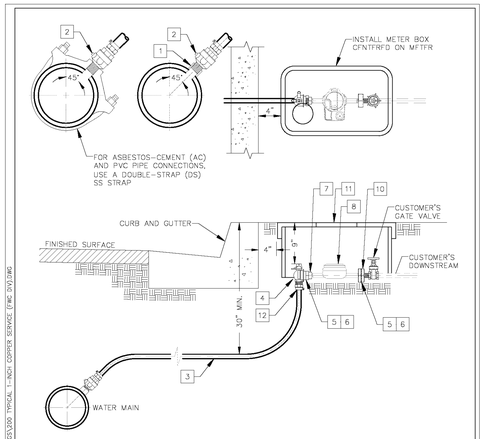

FONTANA WATER COMPANY DIVISION

STANDARD MATERIALS UNLESS OTHERWISE SPECIFIED OR DIRECTED

ITEM	QTY	DESCRIPTION
1	1	1" S.S. BLK. COUPLING PER STD. DWG. 205
2	1	1" CORPORATION STOP MIP x CTS
3	Vor.	1" COPPER PIPE
4	1	1" ANGLE STOP CTS x MCN
5	1	1" METER GASKETS (FOR 5/8" OR 1" METERS, USE 1)
6	1	5/8" OR 1" METER GASKETS (FOR 5/8" OR 1" METERS)
7	1	1" x 1-1/4" S.S. BRASS BUSHING (FOR 5/8" OR 3/4" METERS)
8	1	METER
9	1	1" METER CONNECTION
10	1	5/8" OR 1" METER CONNECTION
11	1	NO. 38 METER BOX

SAN GABRIEL VALLEY WATER COMPANY
11142 EAST GARVEY AVENUE
P.O. BOX 6010 EL MONTE, CALIFORNIA 91734

STANDARD DRAWING 200

TYPICAL 1-INCH COPPER SERVICE (FWC DIV)

No.	DATE	WHAT	APP
REVISIONS			

DRAWN BY: JRR | SCALE: NTS
DATE 03/01/2023 | REV'D BY:
APPROVED BY: DATE
SHEET 1 OF 1 SHEETS

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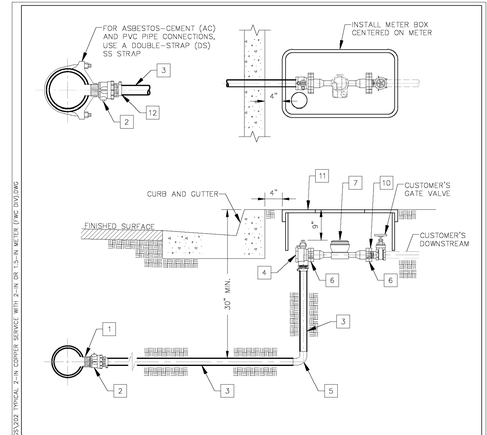

FONTANA WATER COMPANY DIVISION

STANDARD MATERIALS UNLESS OTHERWISE SPECIFIED OR DIRECTED

ITEM	QTY	DESCRIPTION
1	1	2" S.S. BLK. COUPLING PER STD. DWG. 205
2	1	2" CORPORATION STOP MIP x CTS
3	Vor.	2" COPPER PIPE
4	1	2" ANGLE STOP CTS x MC
5	1	2" BRASS COMPRESSION 90° ELL
6	2	2" OR 1.5" METER GASKETS
7	1	2" OR 1.5" METER
8	1	2" OR 1.5" OVAL METER FLANGE
9	4	METER BOLTS
10	1	2" OR 1.5" x CLO NIPPLE CONNECTION
11	1	NO. 6 METER BOX

SAN GABRIEL VALLEY WATER COMPANY
11142 EAST GARVEY AVENUE
P.O. BOX 6010 EL MONTE, CALIFORNIA 91734

STANDARD DRAWING 202

TYPICAL 2-IN COPPER SERVICE WITH 2-IN OR 1.5-IN METER (FWC DIV)

No.	DATE	WHAT	APP
REVISIONS			

DRAWN BY: JRR | SCALE: NTS
DATE 03/01/2023 | REV'D BY:
APPROVED BY: DATE
SHEET 1 OF 1 SHEETS

K:\TRASTATION\AUTOCAD\STD-DRAWINGS\202 TYPICAL 2-IN COPPER SERVICE WITH 2-IN OR 1.5-IN METER (FWC DIV).DWG
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STANDARD MATERIALS UNLESS OTHERWISE DIRECTED

ITEM	QTY	DESCRIPTION
1	6	6" GASKET AND SET OF 8 BOLTS W/NUTS
2	4	6" S.O.W. FLANGE
3	1	6" FLG'D. GATE VALVE
4	1	6" FLG'D. 90° ELL
5	Vor.	6" STEEL PIPE (6-5/8" GWBR)
6	1	6" FLG'D. CHECK VALVE BREAK-AWAY
7	1	FIRE HYDRANT HEAD (FWC J-4060)
8	1	VALVE BOX BOTTOM
9	1	VALVE BOX COVER PER STD. DWG. 118
10	1	VALVE COVER

NOTES:
1. WHEN CURB IS PRESENT, UNLESS OTHERWISE SPECIFIED OR DIRECTED, THE FIRE HYDRANT HEAD SHALL BE INSTALLED 2FT BEHIND THE CURB FACE AS SHOWN. (SEE HYDRANT LOCATION PLAN PER STD. DWG. 302 FOR ALTERNATIVES)
2. IF THE SIDEWALK IS ADJACENT TO THE CURB, REFER TO GENERAL NOTES ON JOB PLANS FOR THE RISER LOCATION.
3. FIRE HYDRANT HEADS J-4060 ARE DELIVERED PAINTED.

SAN GABRIEL VALLEY WATER COMPANY
11142 EAST GARVEY AVENUE
P.O. BOX 6010 EL MONTE, CALIFORNIA 91734

STANDARD DRAWING 300

TYPICAL 6-INCH FIRE HYDRANT INSTALLATION (FWC DIV)

No.	DATE	WHAT	APP
REVISIONS			

DRAWN BY: JRR | SCALE: NTS
DATE 03/01/2023 | REV'D BY:
APPROVED BY: DATE
SHEET 1 OF 1 SHEETS

K:\TRASTATION\AUTOCAD\STD-DRAWINGS\300 TYPICAL 6-INCH FIRE HYDRANT INSTALLATION FWC DIV.DWG
7/17/2023 3:33 PM

STANDARD MATERIALS UNLESS OTHERWISE DIRECTED

ITEM	QTY	DESCRIPTION
1	1	DOUBLE CHECK DETECTOR ASSEMBLY – WILKINS 350ASTDA
2	3	FLG'D. 90° ELL
3	1	FLG'D. TEE
4	7	S.O.W. FLANGE
5	2	BLIND FLANGE
6	Vor.	STEEL PIPE (GWBR)
7	10	FLG'D GASKET, RING TYPE

SAN GABRIEL VALLEY WATER COMPANY
11142 EAST GARVEY AVENUE
P.O. BOX 6010 EL MONTE, CALIFORNIA 91734

STANDARD DRAWING 303

TYPICAL DOUBLE CHECK DETECTOR ASSEMBLY INSTALLATION (SIZE AS NOTED PER PLAN)

No.	DATE	WHAT	APP
REVISIONS			

DRAWN BY: JRR | SCALE: NTS
DATE 03/01/2023 | REV'D BY:
APPROVED BY: DATE
SHEET 1 OF 1 SHEETS

K:\TRASTATION\AUTOCAD\STD-DRAWINGS\303 TYPICAL DOUBLE CHECK DETECTOR ASSEMBLY INSTALLATION.DWG
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J&R VAULT SIZES		
METER SIZE	J&R VAULT USED	VAULT SIZE
5/8"	J&R VAULT 100241-R1	4'Wx5'Lx4'D
1"	J&R VAULT 100242-R1	4'Wx6.5'Lx4'D
1.5" & 2"	J&R VAULT 100394-R2	4.5'Wx8.5'Lx4'D

STANDARD MATERIALS UNLESS OTHERWISE DIRECTED

ITEM	QTY	DESCRIPTION
1	2	FLG'D. 45° ELL
2	1	FLG'D. BUTTERFLY VALVE
3	1	FLG'D. STRAINER
4	1	FLG'D METER NEPTUNE MACH 10
5	1	3" S.S. BLK. COUPLING
6	1	3" X CL NIPPLE
7	1	3" BALL VALVE
8	1	J&R VAULT, CLOSED BOTTOM W/SPRING ASSISTED COVER
9	1	DOUBLE CHECK DETECTOR ASSEMBLY (SEE DWG. 303)
10	1	INSTALL LADDER WITH ANCHOR BOLTS

SAN GABRIEL VALLEY WATER COMPANY
11142 EAST GARVEY AVENUE
P.O. BOX 6010 EL MONTE, CALIFORNIA 91734

STANDARD DRAWING 305

DCDA WITH METER

No.	DATE	WHAT	APP
REVISIONS			

DRAWN BY: JRR | SCALE: NTS
DATE 03/01/2023 | REV'D BY:
APPROVED BY: DATE
SHEET 1 OF 1 SHEETS

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8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
Northeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT
KELLEY NEEDHAM
C-19064
to be 03/31/27
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MARK S. LAMOUREUX
No. 38382
CIVIL
STATE OF CALIFORNIA

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
301 N. SAN DIMAS AVENUE
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397

Mark S. Lamoureux 08-18-25
MARK S. LAMOUREUX (R.C.E. 38382) DATE

NO	DATE	BY	DESCRIPTION
1			
REVISIONS			

DRAWN: JGA | CHECKED: MSL
DATE: 07/01/2025 | SCALE: AS SHOWN
PROJECT NUMBER: W2100100AR

SGVWC (FWC)
STANDARD
DRAWINGS

DRAWING NUMBER: C10

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8/18/2025 12:34:19 PM, MSL ENGINEERING, INC. (JA)

JN 20036-20038 C10dgwood

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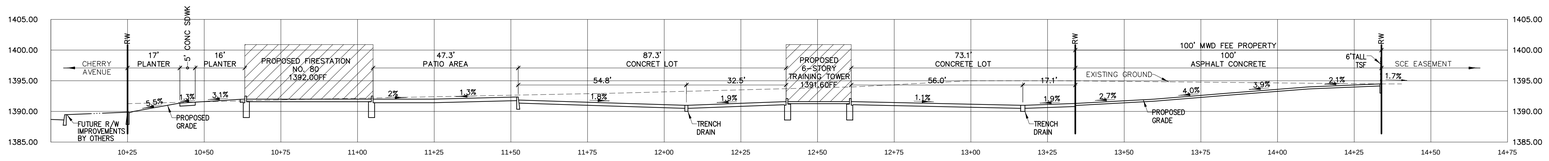
CITY OF FONTANA



SECTION A/C11-A'/C11
REFERENCE: SHEET C5.0
SCALE: HORIZ. 1"=20'
VERT. 1"=10'

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8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
Northeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT
KELLEY NEEDHAM
C-19064
Te/Je 03/31/27
STATE OF CALIFORNIA

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MARK S. LAMOUREUX
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SPECIALIZING IN SITE DEVELOPMENT
301 N. SAN DIMAS AVENUE
SAN DIMAS, CA 91773
(909) 305-2395 FAX (909) 305-2397
Mark S. Lamoureux 08-18-25
MARK S. LAMOUREUX (R.C.E. 38382) DATE

NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN: JGA	**CHECKED:** MSL
DATE: 07/01/2025	**SCALE:** AS SHOWN
PROJECT NUMBER: W2100100AR	

SITE CROSS-SECTIONS

DRAWING NUMBER: C11

JN 20038 - 20038 Cflecs

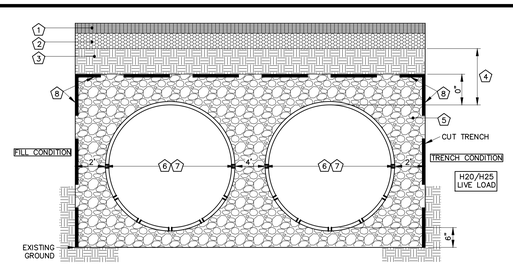
BID SET_20250818

8/18/2025 12:34:24 PM, MSL ENGINEERING, INC. (JA)

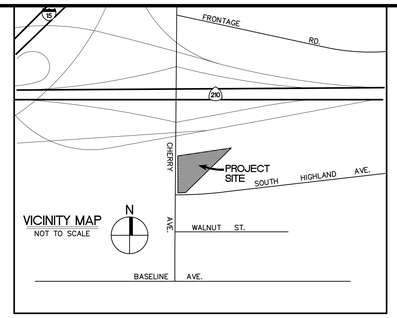
DRAINAGE AREAS

DMA	TOTAL (SF)	IMPERVIOUS AREA(SF)/%	PERVIOUS AREA(SF)/%	C_{MAP}	P_6	DCV	DRAWDOWN	STORAGE VOLUME REQUIRED	STORAGE VOLUME PROVIDED	TREATMENT
A-1	158,392	148,047/93.5%	10,345/06.5%	0.648	0.96	19,577 CF	48 HRS	19,577 CF	22,595 CF	INFILTRATION
B-1	7,040	0/0.0%	7,040/100.0%			N/A		N/A	N/A	SELF-TREATING
TOTAL	165,432	148,047/89.5%	17,385/10.5%							

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA



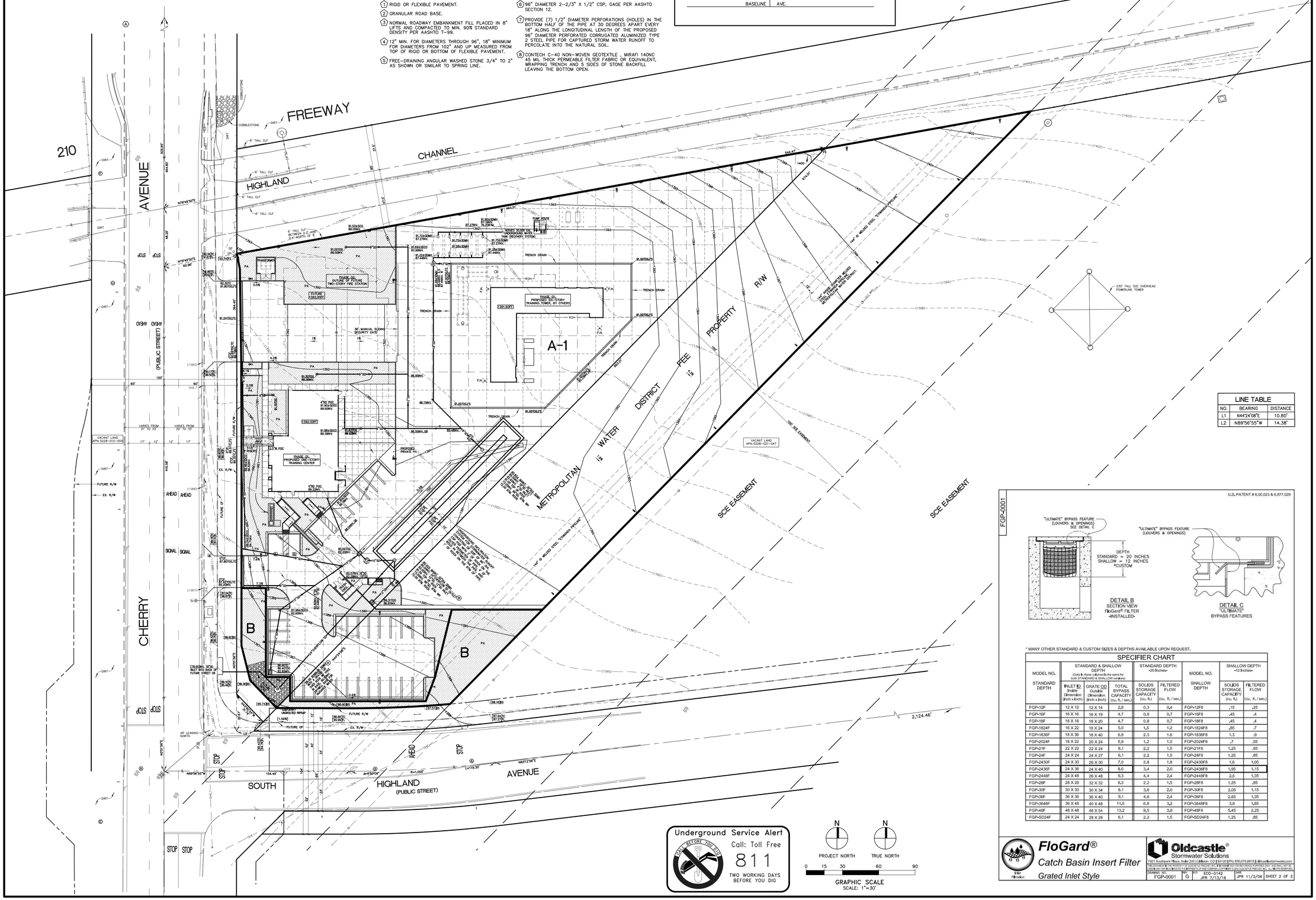
1. RIGID OR FLEXIBLE PAVEMENT.
2. GRANULAR ROAD BASE.
3. NORMAL ROADWAY EMBANKMENT FILL PLACED IN 8" LIFTS AND COMPACTED TO MIN. 90% STANDARD DENSITY PER AASHTO T-99.
4. 12" MIN. FOR DIAMETERS THROUGH 96", 18" MINIMUM FOR DIAMETERS FROM 102" AND UP MEASURED FROM TOP OF RIGID OR BOTTOM OF FLEXIBLE PAVEMENT.
5. FREE-DRAINING ANGULAR WASHED STONE 3/4" TO 2" AS SHOWN OR SIMILAR TO SPRING LINE.
6. 96" DIAMETER 2-2/3" X 1/2" CSP, GAGE PER AASHTO SECTION 12.
7. PROVIDE (7) 1/2" DIAMETER PERFORATIONS (HOLES) IN THE BOTTOM HALF OF THE PIPE AT 30 DEGREES APART EVERY 18" ALONG THE LONGITUDINAL LENGTH OF THE PROPOSED 96" DIAMETER PERFORATED CORRUGATED ALUMINIZED TYPE 2 STEEL PIPE FOR CAPTURED STORM WATER RUNOFF TO PERCOLATE INTO THE NATURAL SOIL.
8. CONTECH C-40 NON-WOVEN GEOTEXTILE , MIRAFI 140NC 45 MIL THICK PERMEABLE FILTER FABRIC OR EQUIVALENT, WRAPPING TRENCH AND 5 SIDES OF STONE BACKFILL LEAVING THE BOTTOM OPEN.



VICINITY MAP
NOT TO SCALE

WQMP STRUCTURAL SOURCE CONTROL BMP

- S1 PROVIDE STORM DRAIN SYSTEM STENCILING AND SIGNAGE.
- S3 DESIGN AND CONSTRUCT TRASH AND WASTE STORAGE AREAS TO REDUCE POLLUTION INTRODUCTION. (SD-32)
- S4 USE EFFICIENT IRRIGATION SYSTEMS AND LANDSCAPE DESIGN, WATER CONSERVATION, SMART CONTROLLERS AND SOURCE CONTROL. (SD-12)
- S5 FINISH GRADE OF LANDSCAPED AREAS AT A MINIMUM OF 1-2 INCHES BELOW TOP OF CURB, SIDEWALK OR PAVEMENT.
- S11 EQUIPMENT HAS AREAS WASH AREA WITH SPILL CONTAINMENT,
- S14 WASH WATER CONTROL FOR FOOD PREPARATION AREAS.
- A ONSITE STORM DRAIN INLETS. NEW 24"X36" OVERFLOW CONCRETE DRAIN BOX INLET WITH A FLO-GARD CATCH BASIN INLET FILTER INSERT SHOWN HEREON FOR THE PRE-TREATMENT OF STORMWATER RUNOFF.



LINE TABLE		
NO.	BEARING	DISTANCE
L1	N44°24'08"E	10.80'
L2	N89°56'55"W	14.38'

* MANY OTHER STANDARD & CUSTOM SIZES & DEPTHS AVAILABLE UPON REQUEST.

SPECIFIER CHART

MODEL NO. STANDARD DEPTH	STANDARD & SHALLOW DEPTH (Data in these columns is the same for both STANDARD & SHALLOW models) INLET ID Inside Dimension (inch x inch)	GRATE OD Outside Dimension (inch x inch)	TOTAL BYPASS CAPACITY (cu. ft. / sec.)	STANDARD DEPTH -20 Inches- SOLIDS STORAGE CAPACITY (cu. ft.)	FILTERED FLOW (cu. ft. / sec.)	MODEL NO. SHALLOW DEPTH	SHALLOW DEPTH -12 Inches- SOLIDS STORAGE CAPACITY (cu. ft.)	FILTERED FLOW (cu. ft. / sec.)
FGP-12F	12 X 12	12 X 14	2,8	0,3	0,4	FGP-12F8	,15	,25
FGP-16F	16 X 16	16 X 19	4,7	0,8	0,7	FGP-16F8	,45	,4
FGP-18F	18 X 18	18 X 20	4,7	0,8	0,7	FGP-18F8	,45	,4
FGP-1824F	16 X 22	18 X 24	5,0	1,5	1,2	FGP-1824F8	,65	,7
FGP-1836F	18 X 36	18 X 40	6,9	2,3	1,6	FGP-1836F8	1,3	,9
FGP-2024F	18 X 22	20 X 24	5,9	1,2	1,0	FGP-2024F8	,7	,55
FGP-21F	22 X 22	22 X 24	6,1	2,2	1,5	FGP-21F8	1,25	,85
FGP-24F	24 X 24	24 X 27	6,1	2,2	1,5	FGP-24F8	1,25	,85
FGP-2430F	24 X 30	26 X 30	7,0	2,8	1,8	FGP-2430F8	1,6	1,05
FGP-2436F	24 X 36	24 X 40	8,0	3,4	2,0	FGP-2436F8	1,95	1,15
FGP-2448F	24 X 48	26 X 48	9,3	4,4	2,4	FGP-2448F8	2,5	1,35
FGP-28F	28 X 28	32 X 32	6,3	2,2	1,5	FGP-28F8	1,25	,85
FGP-30F	30 X 30	30 X 34	8,1	3,8	2,0	FGP-30F8	2,05	1,15
FGP-36F	36 X 36	36 X 40	9,1	4,6	2,4	FGP-36F8	2,65	1,35
FGP-3648F	36 X 48	40 X 48	11,5	6,8	3,2	FGP-3648F8	3,9	1,85
FGP-48F	48 X 48	48 X 54	13,2	9,5	3,9	FGP-48F8	5,45	2,25
FGP-SD24F	24 X 24	28 X 28	6,1	2,2	1,5	FGP-SD24F8	1,25	,85

FloGard®
Catch Basin Insert Filter
Grated Inlet Style

Oldcastle Stormwater Solutions
7321 Southpark Plaza, Suite 200 | Littleton, CO | 80120 | Ph. 800.579.8819 | oldcastlestormwater.com

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DRAWING NO.	REV.	ECO	DATE
FGP-0001	G	ECO-0142 JPR 7/13/16	JPR 11/3/06

SHEET 2 OF 2

Underground Service Alert
Call: Toll Free
811
TWO WORKING DAYS BEFORE YOU DIG

N PROJECT NORTH
N TRUE NORTH
0 15 30 60 90
GRAPHIC SCALE
SCALE: 1"=30'

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RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
Northeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT
KELLEY NEEDHAM
C-19064
Ik'ze 033127
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MARK S. LAMOUREUX
No. 38382
CIVIL
STATE OF CALIFORNIA

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
301 N. SAN DIMAS AVENUE
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397

Mark S. Lamoureux 08-18-25
MARK S. LAMOUREUX (R.C.E. 38382) DATE

NO	DATE	BY	DESCRIPTION
1			REVISIONS

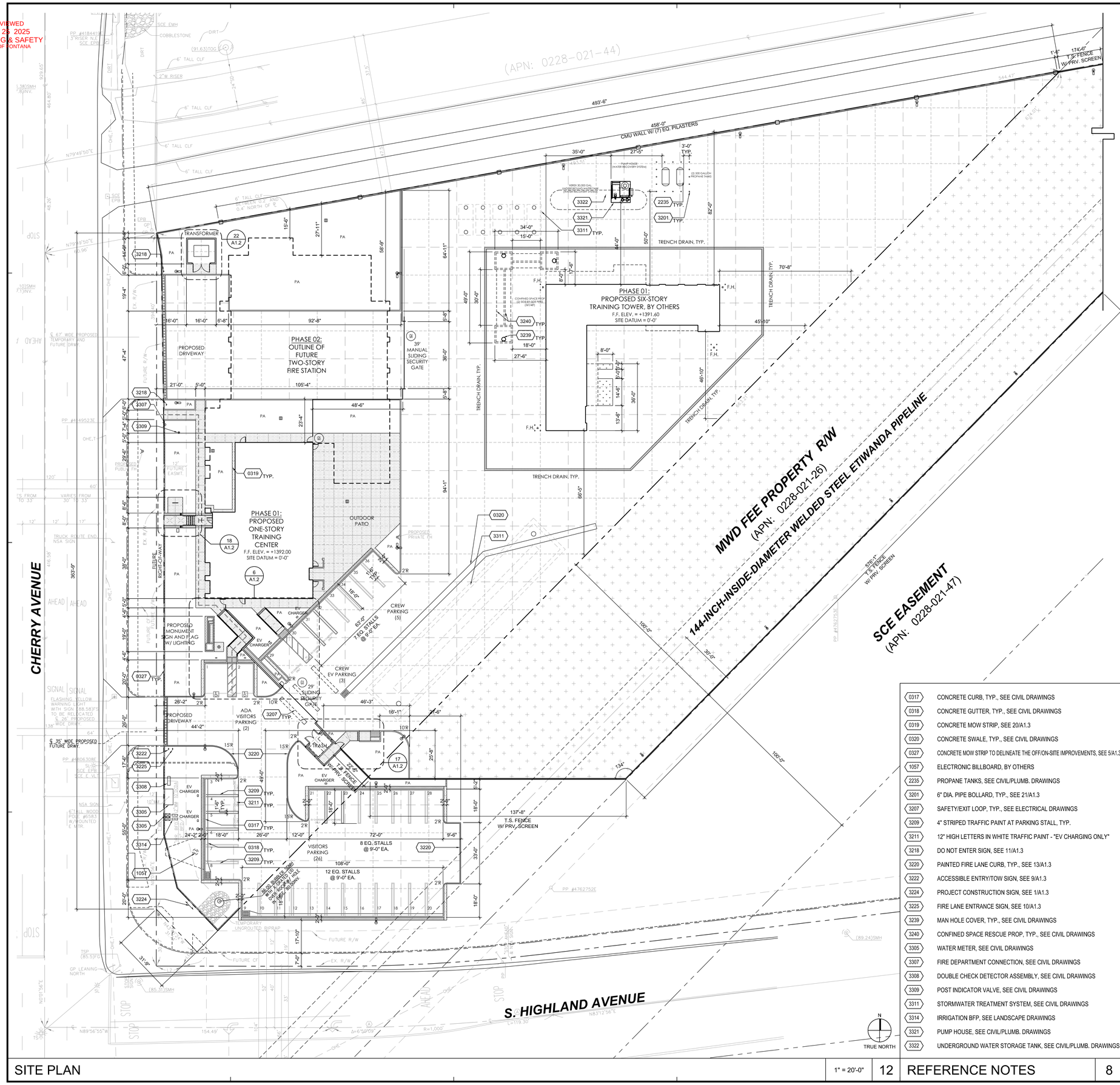
DRAWN: JGA CHECKED: MSL
DATE: 07/01/2025 SCALE: AS SHOWN
PROJECT NUMBER: W2100100AR

WQMP
SITE PLAN

DRAWING NUMBER: C12

JN 20008-20008 C12dma
8/18/2025 12:34:29 PM, MSL ENGINEERING, INC. (JA)
BID SET_20250818

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA



SITE PLAN | 1" = 20'-0" | 12

0317	CONCRETE CURB, TYP., SEE CIVIL DRAWINGS	
0318	CONCRETE GUTTER, TYP., SEE CIVIL DRAWINGS	
0319	CONCRETE MOW STRIP, SEE 20/A1.3	
0320	CONCRETE SWALE, TYP., SEE CIVIL DRAWINGS	
0327	CONCRETE MOW STRIP TO DELINEATE THE OFF/ON-SITE IMPROVEMENTS, SEE 5/A1.3	
1057	ELECTRONIC BILLBOARD, BY OTHERS	
2235	PROPANE TANKS, SEE CIVIL/PLUMB. DRAWINGS	
3201	6" DIA. PIPE BOLLARD, TYP., SEE 21/A1.3	
3207	SAFETY/EXIT LOOP, TYP., SEE ELECTRICAL DRAWINGS	
3209	4" STRIPED TRAFFIC PAINT AT PARKING STALL, TYP.	
3211	12" HIGH LETTERS IN WHITE TRAFFIC PAINT - "EV CHARGING ONLY"	
3218	DO NOT ENTER SIGN, SEE 11/A1.3	
3220	PAINTED FIRE LANE CURB, TYP., SEE 13/A1.3	
3222	ACCESSIBLE ENTRY/TOW SIGN, SEE 9/A1.3	
3224	PROJECT CONSTRUCTION SIGN, SEE 1/A1.3	
3225	FIRE LANE ENTRANCE SIGN, SEE 10/A1.3	
3239	MAN HOLE COVER, TYP., SEE CIVIL DRAWINGS	
3240	CONFINED SPACE RESCUE PROP, TYP., SEE CIVIL DRAWINGS	
3305	WATER METER, SEE CIVIL DRAWINGS	
3307	FIRE DEPARTMENT CONNECTION, SEE CIVIL DRAWINGS	
3308	DOUBLE CHECK DETECTOR ASSEMBLY, SEE CIVIL DRAWINGS	
3309	POST INDICATOR VALVE, SEE CIVIL DRAWINGS	
3311	STORMWATER TREATMENT SYSTEM, SEE CIVIL DRAWINGS	
3314	IRRIGATION BFP, SEE LANDSCAPE DRAWINGS	
3321	PUMP HOUSE, SEE CIVIL/PLUMB. DRAWINGS	
3322	UNDERGROUND WATER STORAGE TANK, SEE CIVIL/PLUMB. DRAWINGS	

REFERENCE NOTES | 8

ASSESSOR PARCEL NUMBER(S):
0228-021-46

LEGAL DESCRIPTION:
THAT PORTION OF THE NORTHWEST ONE-QUARTER OF SECTION 35, TOWNSHIP 1 NORTH, RANGE 6 WEST, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 35, THENCE ALONG THE NORTH LINE OF SAID SECTION 35, SOUTH 89 DEG 55'12" EAST, 950.74 FEET TO THE NORTHWESTERLY LINE OF THE LAND CONVEYED IN A DEED TO THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA RECORDED JULY 31, 1991 AS INSTRUMENT NO. 91-290525 THENCE ALONG SAID NORTHWESTERLY LINE SOUTH 44 DEG 23'30" WEST, 579.12 FEET TO THE TRUE POINT OF BEGINNING; THENCE CONTINUING SOUTH 44 DEG 23'30" WEST, 663.27 FEET; THENCE NORTH 43 DEG 47'30" WEST, 31.95 FEET; THENCE NORTH 00 DEG 01'56" EAST, 363.73 FEET; THENCE NORTH 79 DEG 49'49" EAST,493.66 FEET, TO THE TRUE POINT OF BEGINNING.

GROSS ACREAGE:
SITE = 98,855 SQUARE FEET OR 2.26 ACRES
MWD EASEMENT = 69,504 SQUARE FEET OR 1.59 ACRES

EXISTING ZONING / SPECIFIC PLAN:
RMU (REGIONAL MIXED USE) / WESTGATE (WESTGATE EAST COMMUNITY AREA) - MU-1

PROPERTY OWNER:
CITY OF FONTANA
8353 SIERRA AVE., FONTANA, CA 92335

PROPERTY ADDRESS:
6585 CHERRY AVENUE, FONTANA, CA 92336

PROPOSED (SITE) LOT COVERAGE	PHASE 01	PHASE 02
BUILDINGS (FOOTPRINT):	7,523 S.F. (7.6%)	10,211 S.F. (10.3%)
LANDSCAPING:	16,977 S.F. (17.2%)	TBD S.F. (TBD%)
PAVED AREA:	74,355 S.F. (75.2%)	TBD S.F. (TBD%)
TOTAL:	98,855 S.F. (100%)	98,855 S.F. (100%)

PROPOSED (MWD EASEMENT) LOT COVERAGE	PHASE 01	PHASE 02
LANDSCAPING:	7,061 S.F. (10.2%)	
CONCRETE PAVED AREA:	7,774 S.F. (11.2%)	
ASPHALT PAVED AREA:	54,669 S.F. (78.6%)	
TOTAL:	69,504 S.F. (100%)	

PROPOSED BUILDING AREA	PHASE 01	PHASE 02
SINGLE-STORY TRAINING CENTER:	4,193 S.F. (37.5%)	
SIX-STORY TRAINING TOWER:	7,000 S.F. (62.5.%)	
TWO-STORY FIRE STATION:		14,663 S.F. (100%)
TOTAL:	11,193 S.F. (100%)	14,663 S.F. (100%)

SITE INFORMATION | 1

TYPE OF PARKING SPACE	QUANTITY
STANDARD - CREW	5
STANDARD - VISITOR	21
ACCESSIBLE/ VAN ACCESSIBLE (TABLE 11B-208.2, CBC 2022)	1/1=2
CLEAN AIR/ VANPOOL/ EV/ VAN ACCESSIBLE/ AMBULATORY	6/1/1=8
TOTAL	36
ACCESSIBLE PARKING SPACES REQUIRED (CBC 2022)	2
EV CAPABLE PARKING SPACES REQUIRED (CGBSC 2022)	8

PARKING SUMMARY | 2

CONCRETE PAVING
CONCRETE JOINT CJ1, SEE 2/A1.3
CONCRETE JOINT CJ2, SEE 2/A1.3

COLORED CONCRETE SIDEWALK
SAW CUT JOINT TJ1, SEE 2/A1.3
EXPANSION JOINT EJ1, SEE 2/A1.3
COLOR 1

ASPHALT PAVING
ARTIFICIAL TURF

NEW CONCRETE MASONRY RETAINING OR ENCLOSURE WALL, 8" WIDE, SPLIT FACE WITH CAP & 24" SQ. PILASTER SPLIT FACE WITH CAP, TYP. U.N.O., SEE 19/A1.4

NEW TUBE STEEL FENCING WITH PRIVACY SCREEN ALONG THE ENTIRE OUTER PERIMETER, TYP. U.N.O., SEE 20/A1.4

LIGHT STANDARD, SEE ELECTRICAL DRAWINGS

DRAINAGE STRUCTURES, SEE CIVIL DRAWINGS

PA — PLANTER AREA, SEE LANDSCAPING DRAWINGS

F.H. — FIRE HYDRANT, SEE CIVIL DRAWINGS

ACCESSIBLE PATH OF TRAVEL: NO ABRUPT CHANGES IN ELEVATION ALONG PATH OF TRAVEL

PROPERTY LINE

1. SEE CIVIL, MECHANICAL, PLUMBING, ELECTRICAL AND LANDSCAPE SITE PLANS FOR LOCATION OF ADDITIONAL SITE ITEMS.
2. EXTEND CONCRETE PAVING INTO TRASH ENCLOSURE, TRANSFORMER ENCLOSURE AND EMERGENCY GENERATOR ENCLOSURE.
3. SEE DETAIL 3/A1.3 FOR EDGE CONDITION AT CONCRETE SIDE WALK TO LANDSCAPE.
4. SEE DETAIL 13/A1.3 FOR FIRE LANE CURB.
5. "SITE FULLY COMPLIES WITH T-24, ACCESSIBILITY STANDARDS: AND SUBJECT TO FIELD VERIFICATION".
6. HAZARDOUS MATERIALS FROM ANY TRAINING ACTIVITIES SHALL NOT BE PERMITTED TO FLOW INTO METROPOLITAN'S FEE PROPERTY.
7. VEHICLES THAT IMPOSE A LOAD NO GREATER THAN THAT IMPOSED BY AN AASHTO H-20 VEHICLE MAY BE USED WITHIN OUR FEE PROPERTY RIGHT-OF-WAY.
8. VEHICLES OF VARIABLE WHEEL CONFIGURATION SUCH AS READY-MIX CONCRETE TRUCKS WITH LIFTABLE OR ADJUSTABLE AUXILIARY AXLES SHALL BE OPERATED IN THEIR HIGHWAY LEGAL CONFIGURATION WHEN THEY ARE WITHIN 25 FEET OF THE CENTERLINE OF METROPOLITAN'S PIPELINE.
9. NO VIBRATORY COMPACTION EQUIPMENT IN VIBRATORY MODE SHALL BE USED WITHIN 25 FEET OF THE CENTERLINE OF THE PIPELINE.
10. PLEASE NOTE THAT ANY STOCKPILING OF MATERIALS OR STORAGE OF EQUIPMENT WITHIN METROPOLITAN'S RIGHT-OF-WAY IS NOT PERMITTED.
11. TRANSFORMER TO BE COMPLETELY SCREEN.
12. RAIN GUTTERS TO BE ON THE INTERIOR WHEN VISIBLE FROM THE PUBLIC RIGHT OF WAY.
13. NOTIFY JESSE FRANCO, WATER SYSTEM OPERATIONS GROUP, (818) 468-5188, AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY WORK WITHIN THE VICINITY OF OUR FACILITIES - MWD.
14. SITE FULLY COMPLIES WITH T-24, ACCESSIBILITY STANDARDS: AND SUBJECT TO FIELD VERIFICATION.

MATERIAL LEGEND & NOTES | 4

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLE PRESSHAM
C-19664
to be 03/31/27
STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
1			REVISIONS

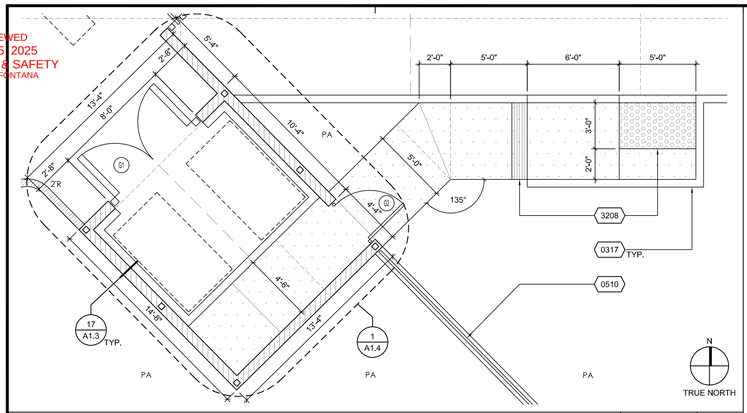
DRAWN: JM | CHECKED: KN
DATE: 05/21/2025 | SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

SITE PLAN

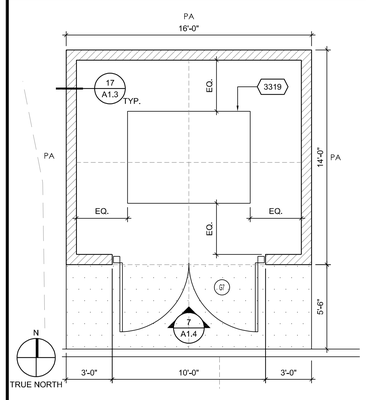
DRAWING NUMBER: A1.1

BID SET_20250818

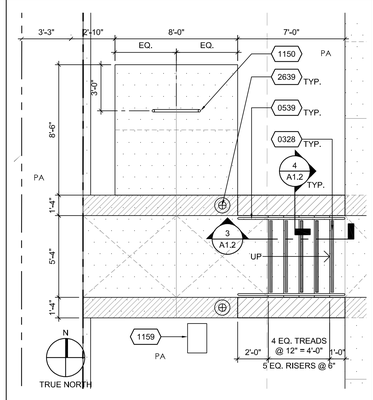
REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA



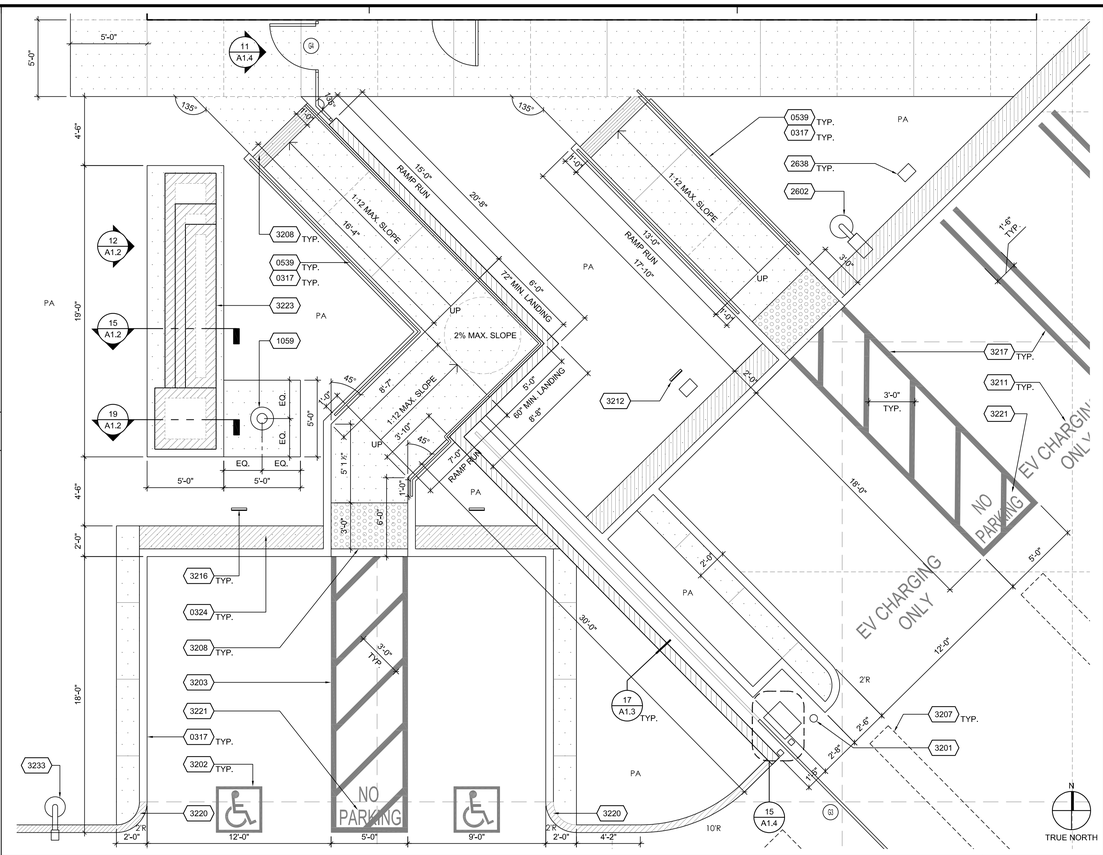
TRASH ENCLOSURE — 1/4" = 1'-0" — 17



TRANSFORMER ENCLOSURE — 1/4" = 1'-0" — 22



ENTRY STAIR / BIKE RACK — 1/4" = 1'-0" — 18



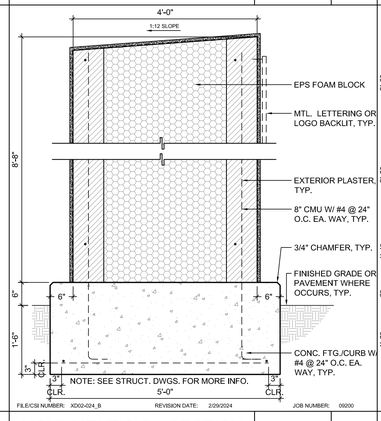
ADA-EV-CLEAN AIR PARKING, MONUMENT SIGN, FLAG POLE, AND RAMPS — 1/4" = 1'-0" — 6

0317	CONCRETE CURB, TYP., SEE CIVIL DRAWINGS
0324	COLORED CONCRETE, COLOR 1, TYP.
0328	STAIR CONTRAST COLOR
0510	TUBE STEEL FENCING, SEE 20/A1.4
0539	STAINLESS STEEL HANDRAIL, SEE 8/A1.2
1059	FLAG POLE, SEE 4/A1.3
1150	BICYCLE RACK
1159	MAILBOX, SEE 8/A1.3 AND VERIFY LOCATION W/ POSTMASTER
2602	LIGHT STANDARD, TYP., SEE ELECTRICAL DRAWINGS
2638	CHARGING STATION, SEE ELECTRICAL DRAWINGS
2639	BOLLARD LIGHT, SEE ELECTRICAL DRAWINGS
3201	6" DIA. PIPE BOLLARD, TYP., SEE 21/A1.3
3202	PAINTED ISA SYMBOL, TYP., SEE 14/A1.3
3203	4" WIDE BLUE TRAFFIC PAINT STRIPING AT 36" O.C., TYP.
3207	SAFETY/EXIT LOOP, TYP., SEE ELECTRICAL DRAWINGS
3208	TRUNCATED DOMES AND GROOVED BORDER, TYP., SEE 16/A1.3
3211	12" HIGH LETTERS IN WHITE TRAFFIC PAINT - "EV CHARGING ONLY"
3212	EV CHARGING ACCESSIBLE PARKING SIGN, SEE 15/A1.3
3216	ACCESSIBLE PARKING SIGN, SEE 12/A1.3
3217	4" WIDE GREEN TRAFFIC PAINT STRIPING, TYP.
3220	PAINTED FIRE LANE CURB, TYP., SEE 13/A1.3
3221	12" HIGH LETTERS IN WHITE TRAFFIC PAINT, TYP.
3223	MONUMENT SIGN, SEE 12/A1.2
3233	POST MOUNTED KEYPAD FOR GATE CONTROL, SEE 18/A1.3
3319	TRANSFORMER/ PAD, SEE ELECTRICAL DRAWINGS

NOTES:

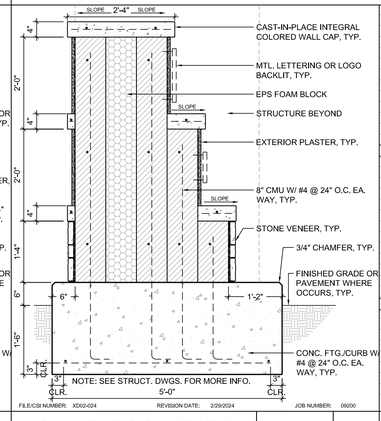
1. SEE THE GENERAL NOTES/LEGEND ON SHEET A1.1 FOR MORE INFO.
2. ALL SIGNS SHALL BE REVIEWED BY A SEPARATE DESIGN REVIEW PERMIT.

REFERENCE NOTES — 2



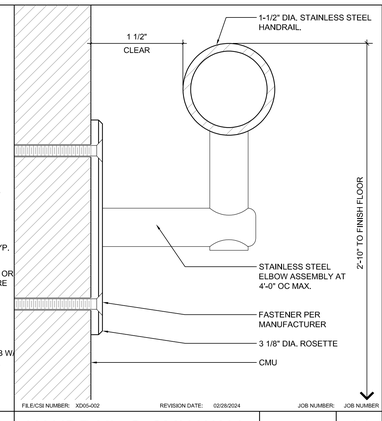
FILE/CSI NUMBER: XD02-024_B REVISION DATE: 2/29/2024 JOB NUMBER: 09200

MONUMENT SIGN SECTION — 3/4"=1'-0" — 19



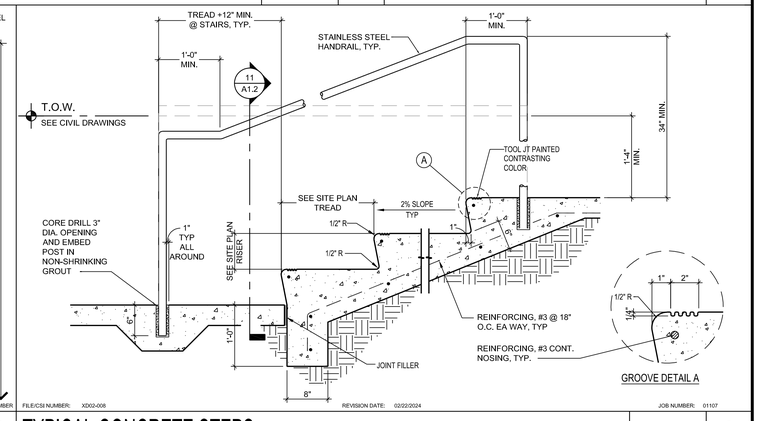
FILE/CSI NUMBER: XD02-024 REVISION DATE: 2/29/2024 JOB NUMBER: 09200

MONUMENT SIGN SECTION — 3/4"=1'-0" — 15



FILE/CSI NUMBER: XD05-002 REVISION DATE: 02/28/2024 JOB NUMBER: JOB NUMBER

HANDRAIL @ CMU WALL — FULL — 11



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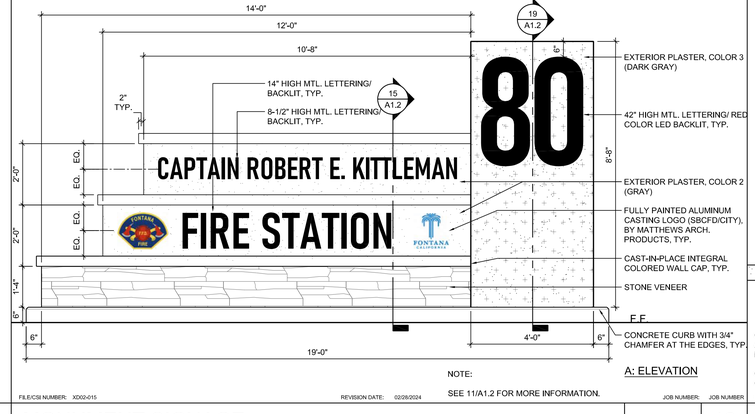
TYPICAL CONCRETE STEPS — 1"=1'-0" — 3



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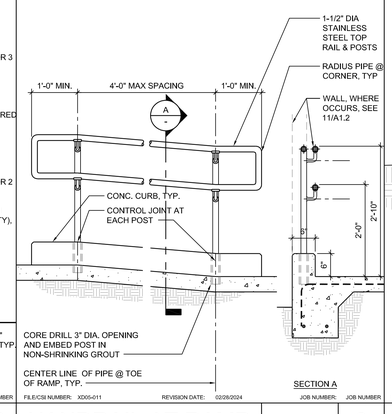
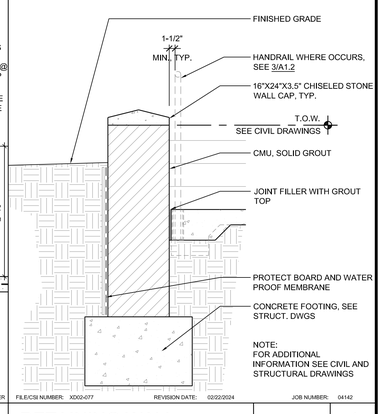
MONUMENT SIGNAGE — 1/2"=1'-0" — 12



FILE/CSI NUMBER: XD05-011 REVISION DATE: 02/28/2024 JOB NUMBER: JOB NUMBER

HANDRAIL AT RAMP — 3/4"=1'-0" — 8



FILE/CSI NUMBER: XD02-077 REVISION DATE: 02/22/2024 JOB NUMBER: 04142

RETAINING WALL — 3/4"=1'-0" — 4

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLY MEADOWHAM
C-19664
Ve.Inc 03/31/27
STATE OF CALIFORNIA

CONSULTANT

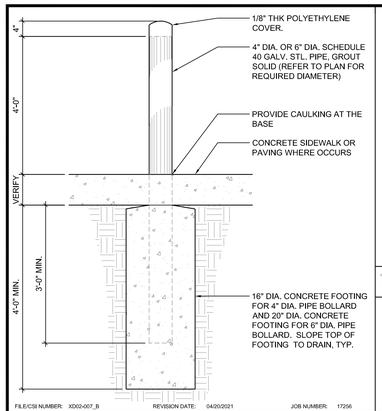
NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN: JM	CHECKED: KN
DATE: 05/21/2025	SCALE: AS NOTED
PROJECT NUMBER: W2100100AR	

ENLARGED SITE PLANS & SITE DETAILS

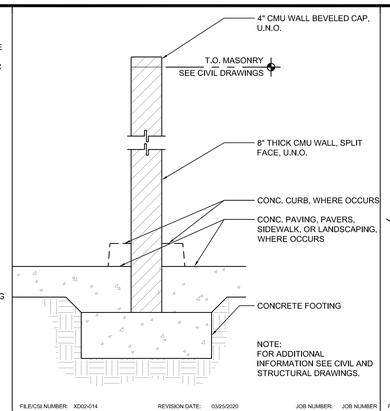
DRAWING NUMBER: A1.2

BID SET_20250818



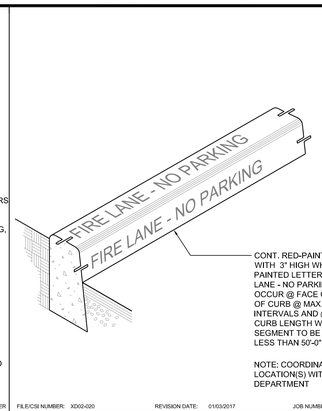
FILE/CSI NUMBER: XD02-007_B REVISION DATE: 04/00/2021 JOB NUMBER: 17256

BOLLARD	3/4"=1'-0"	21



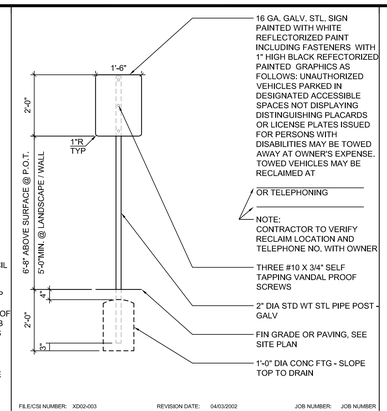
FILE/CSI NUMBER: XD02-014 REVISION DATE: 03/25/2020 JOB NUMBER: JOB NUMBER

SITE WALL	3/4"=1'-0"	17



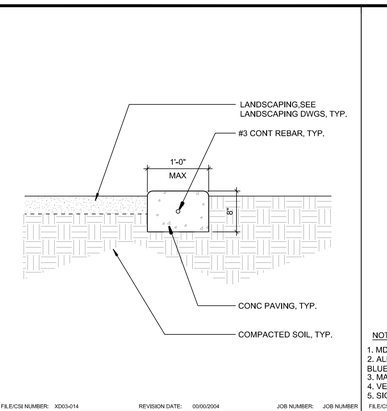
FILE/CSI NUMBER: XD02-020 REVISION DATE: 01/03/2017 JOB NUMBER: 16104

FIRE LANE CURB	1 1/2"=1'-0"	13



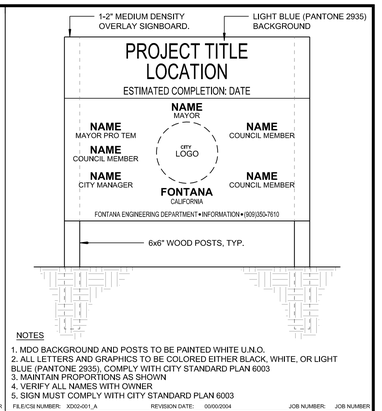
FILE/CSI NUMBER: XD02-003 REVISION DATE: 04/03/2002 JOB NUMBER: JOB NUMBER

ACCESSIBILITY / TOW AWAY ENTRY SIGN	1/2"=1'-0"	9



FILE/CSI NUMBER: XD03-014 REVISION DATE: 00/00/2004 JOB NUMBER: JOB NUMBER

CONCRETE HEADER	1"=1'-0"	5



FILE/CSI NUMBER: XD02-001_A REVISION DATE: 00/00/2004 JOB NUMBER: JOB NUMBER

CONSTRUCTION SIGN	1/2"=1'-0"	1

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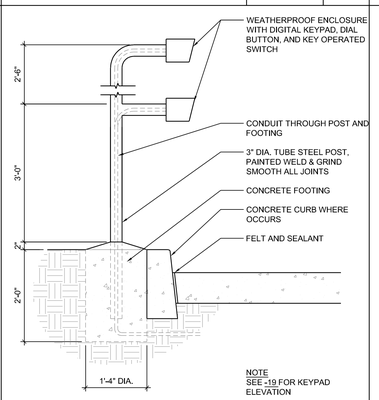
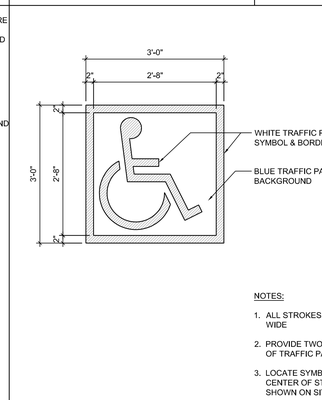


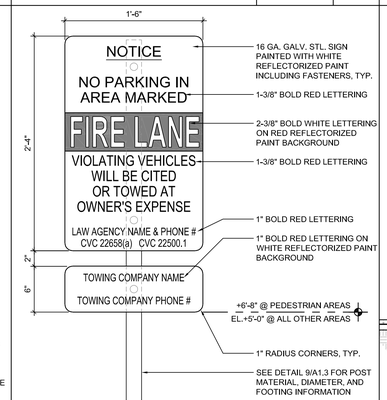
FILE/CSI NUMBER: XD02-005 REVISION DATE: 02/20/2024 JOB NUMBER: JOB NUMBER

KEYPAD	3/4"=1'-0"	18



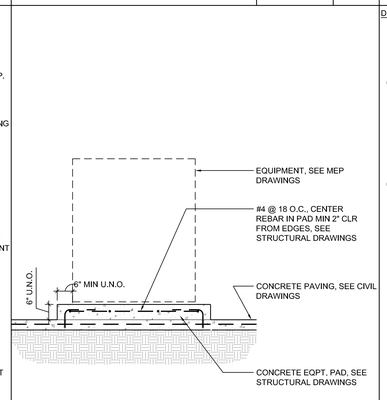
FILE/CSI NUMBER: XD02-002 REVISION DATE: 04/03/2002 JOB NUMBER: 06200

ACCESS SYMBOL	N.T.S.	14



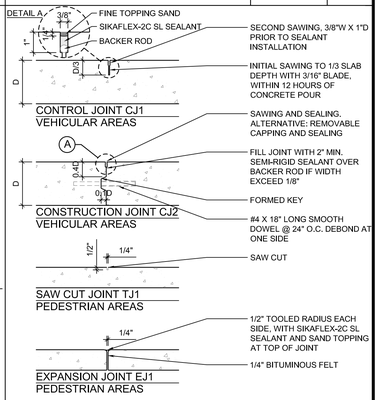
FILE/CSI NUMBER: XD02-032 REVISION DATE: 02/17/2021 JOB NUMBER: 16104

FIRE LANE ENTRANCE SIGN	1 1/2"=1'-0"	10



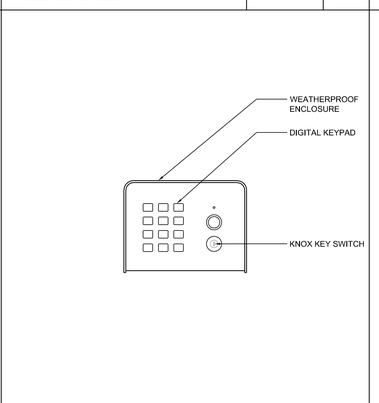
FILE/CSI NUMBER: XD02-044 REVISION DATE: 02/01/2012 JOB NUMBER: 11129

TYPICAL EQUIPMENT PAD	1/2"=1'-0"	6



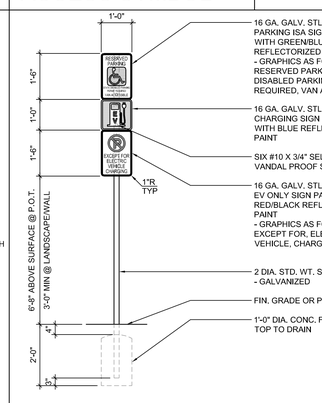
FILE/CSI NUMBER: XD02-006 REVISION DATE: 04/03/2002 JOB NUMBER: JOB NUMBER

CONCRETE JOINTS	1"=1'-0"	2



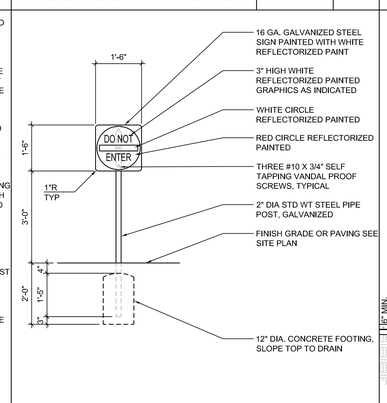
FILE/CSI NUMBER: XD02-010 REVISION DATE: 02/17/2021 JOB NUMBER: JOB NUMBER

KEYPAD ELEVATION	3"=1'-0"	19



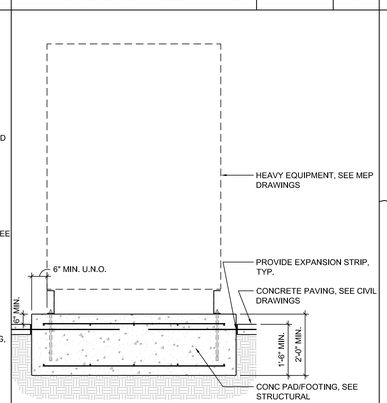
FILE/CSI NUMBER: XD02-004_EV REVISION DATE: 02/19/2024 JOB NUMBER: JOB NUMBER

EV VAN ACCESSIBLE PARKING SIGN	1/2"=1'-0"	15



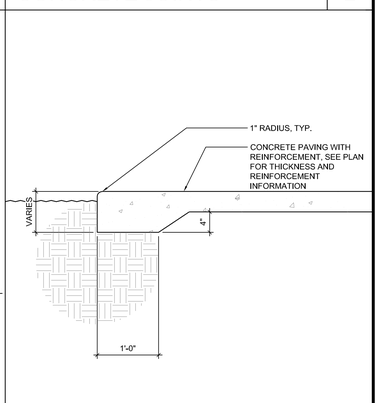
FILE/CSI NUMBER: XD02-26 REVISION DATE: 03/01/2004 JOB NUMBER: 16104

DO NOT ENTER SIGN	1/2"=1'-0"	11



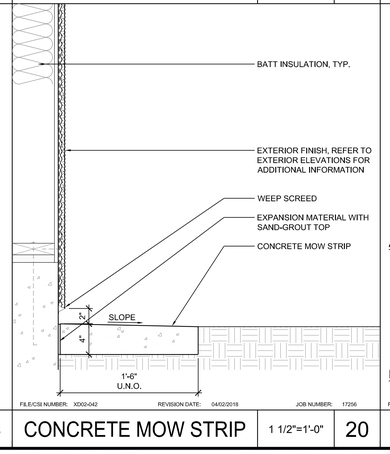
FILE/CSI NUMBER: XD02-045 REVISION DATE: 02/01/2012 JOB NUMBER: 11129

HEAVY EQUIPMENT PAD	1/2"=1'-0"	7



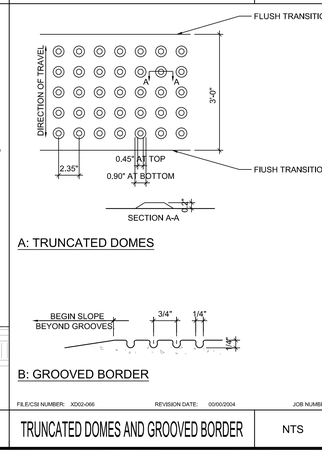
FILE/CSI NUMBER: XD02-017 REVISION DATE: 01/03/2017 JOB NUMBER: 16104

EDGE CONDITION AT CONC. PAVING	1"=1'-0"	3



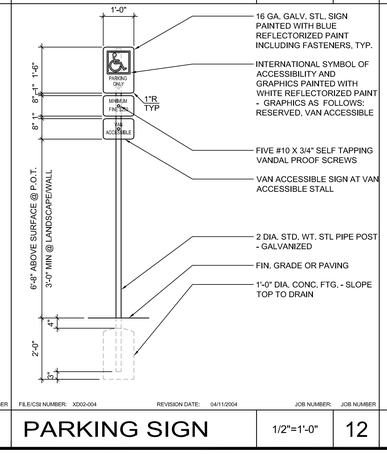
FILE/CSI NUMBER: XD02-042 REVISION DATE: 04/02/2018 JOB NUMBER: 17256

CONCRETE MOW STRIP	1 1/2"=1'-0"	20



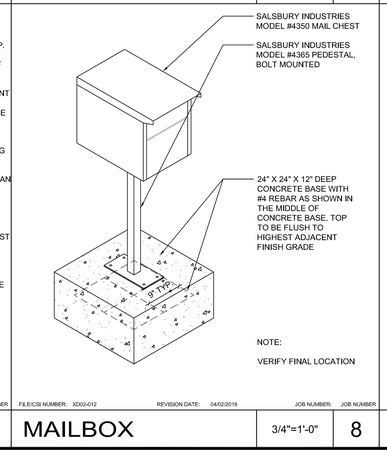
FILE/CSI NUMBER: XD02-066 REVISION DATE: 00/00/2004 JOB NUMBER: JOB NUMBER

TRUNCATED DOMES AND GROOVED BORDER	NTS	16



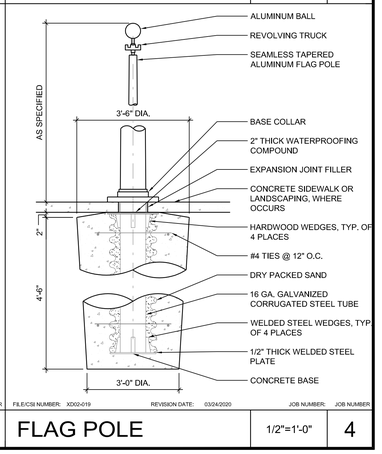
FILE/CSI NUMBER: XD02-004 REVISION DATE: 04/11/2004 JOB NUMBER: JOB NUMBER

PARKING SIGN	1/2"=1'-0"	12



FILE/CSI NUMBER: XD02-012 REVISION DATE: 04/02/2018 JOB NUMBER: JOB NUMBER

MAILBOX	3/4"=1'-0"	8



FILE/CSI NUMBER: XD02-019 REVISION DATE: 03/24/2020 JOB NUMBER: JOB NUMBER

FLAG POLE	1/2"=1'-0"	4

RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
NILES PETERSHAM
C-19664
Ve.Jac 03/31/27
STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
1			REVISIONS

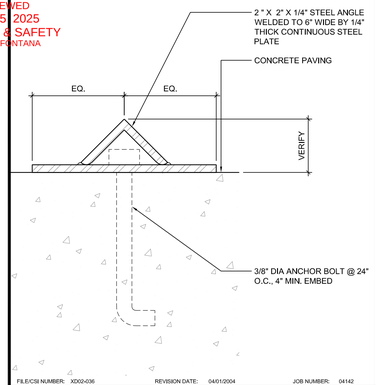
DRAWN: JM	CHECKED: KN
DATE: 05/21/2025	SCALE: AS NOTED
PROJECT NUMBER: W2100100AR	

SITE DETAILS

DRAWING NUMBER: A1.3

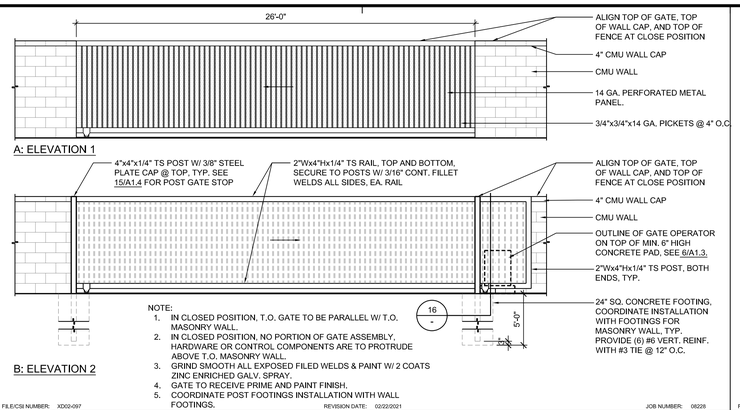
BID SET_20250818

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA



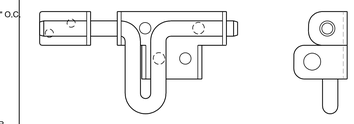
FILE/CSI NUMBER: XD02-036 REVISION DATE: 04/01/2004 JOB NUMBER: 04142

ROLLING GATE TRACK | HALF | 21



FILE/CSI NUMBER: XD02-097 REVISION DATE: 02/22/2021 JOB NUMBER: 08228

TUBE STEEL SITE ROLLING GATE ELEVATIONS | 1/4" = 1'-0" | 13

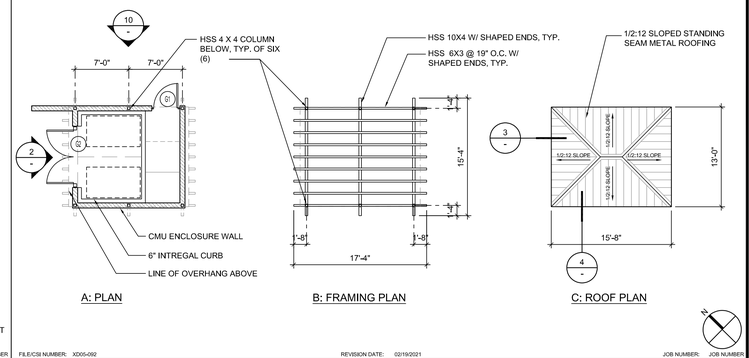


NOTES:
1. ONLY OCCURS AT TRASH ENCLOSURE
2. HEAVY DUTY LOCK WELDED TO TRASH ENCLOSURE GATE
3. COORDINATE WITH THE FIRE DEPARTMENT

FILE/CSI NUMBER: XD02-025 REVISION DATE: 02/21/2024 JOB NUMBER: JOB NUMBER

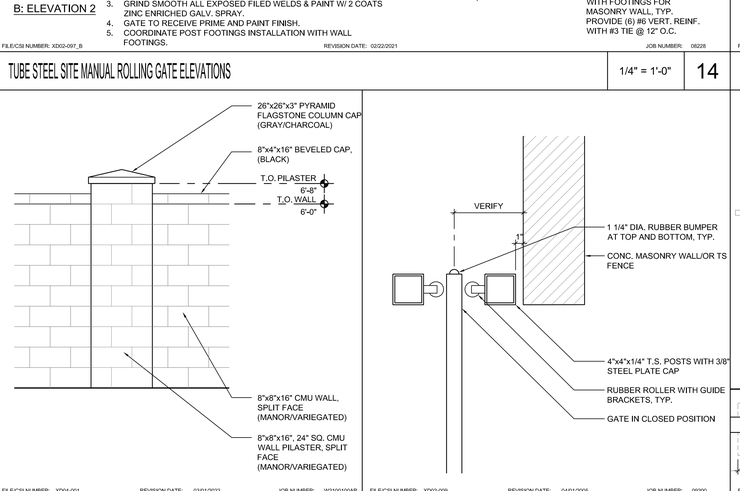
WELDED GATE LOCK | FULL | 9

NOTE: SEE STRUCTURAL DWGS FOR ADDITIONAL INFORMATION



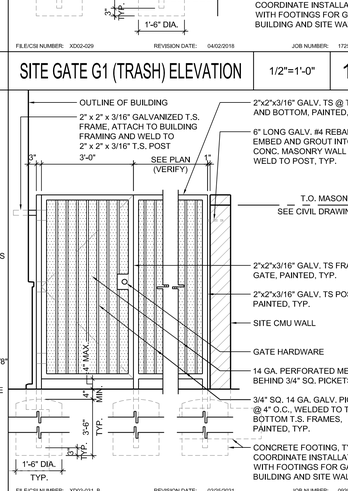
FILE/CSI NUMBER: XD05-092 REVISION DATE: 02/19/2021 JOB NUMBER: JOB NUMBER

TRASH ENCLOSURE COVER | 1/8"=1'-0" | 1



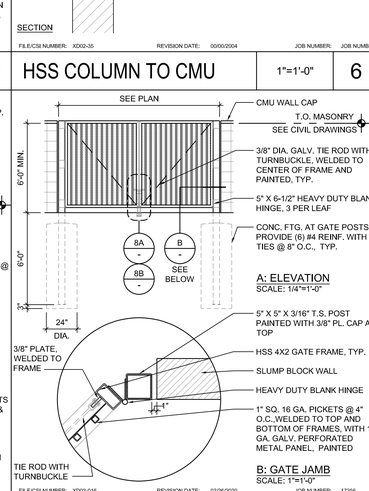
FILE/CSI NUMBER: XD02-097_B REVISION DATE: 02/22/2021 JOB NUMBER: 08228

TUBE STEEL SITE MANUAL ROLLING GATE ELEVATIONS | 1/4" = 1'-0" | 14



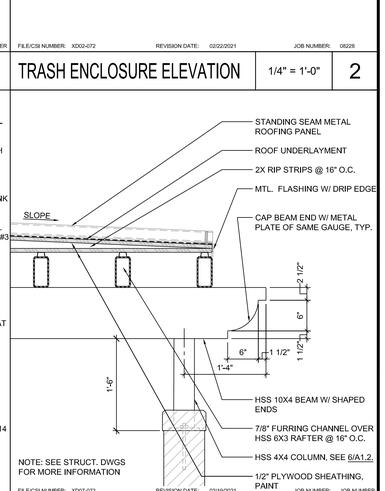
FILE/CSI NUMBER: XD02-029 REVISION DATE: 04/02/2018 JOB NUMBER: 17256

SITE GATE G1 (TRASH) ELEVATION | 1/2"=1'-0" | 10



FILE/CSI NUMBER: XD02-35 REVISION DATE: 00/00/2004 JOB NUMBER: JOB NUMBER

HSS COLUMN TO CMU | 1"=1'-0" | 6



FILE/CSI NUMBER: XD02-072 REVISION DATE: 02/22/2021 JOB NUMBER: 08228

TRASH ENCLOSURE ELEVATION | 1/4" = 1'-0" | 2

FILE/CSI NUMBER: XD04-001 REVISION DATE: 03/01/2023 JOB NUMBER: W2100100AR

CMU WALL ELEVATION, TYP. | 1/2" = 1'-0" | 19

FILE/CSI NUMBER: XD02-009 REVISION DATE: 04/01/2005 JOB NUMBER: 09200

GATE STOP | 1 1/2"=1'-0" | 15

FILE/CSI NUMBER: XD02-031_B REVISION DATE: 02/25/2021 JOB NUMBER: 09200

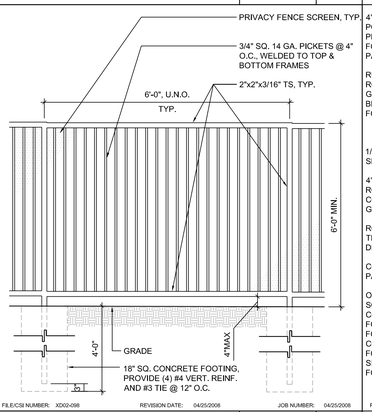
SITE GATE G4 ELEVATION | 1/2"=1'-0" | 11

FILE/CSI NUMBER: XD02-016 REVISION DATE: 03/26/2020 JOB NUMBER: 17256

ENCLOSURE GATE | AS NOTED | 7

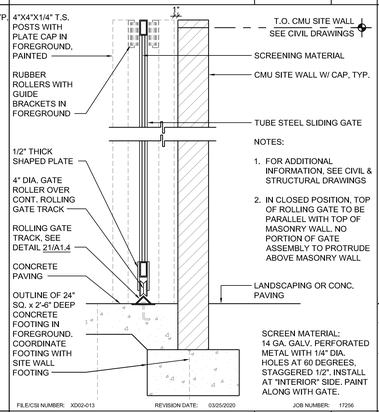
FILE/CSI NUMBER: XD07-073 REVISION DATE: 02/19/2021 JOB NUMBER: JOB NUMBER

ROOF | 1"=1'-0" | 3



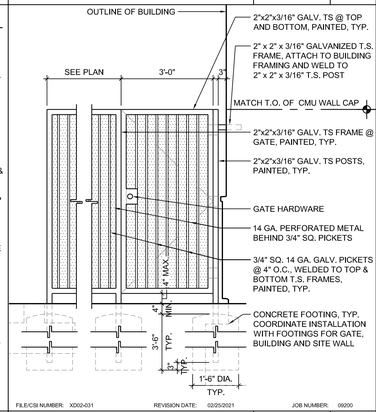
FILE/CSI NUMBER: XD02-098 REVISION DATE: 04/25/2008 JOB NUMBER: 04/25/2008

TUBE STEEL FENCE | 1/2"=1'-0" | 20



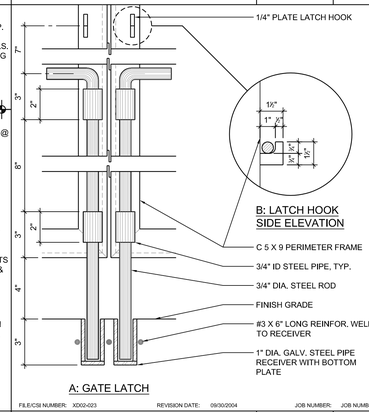
FILE/CSI NUMBER: XD02-013 REVISION DATE: 03/25/2020 JOB NUMBER: 17256

WALL AT GATE | 3/4"=1'-0" | 16



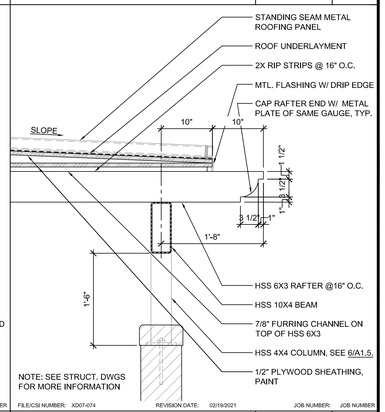
FILE/CSI NUMBER: XD02-031 REVISION DATE: 02/25/2021 JOB NUMBER: 09200

SITE GATE G5 ELEVATION | 1/2"=1'-0" | 12



FILE/CSI NUMBER: XD02-023 REVISION DATE: 09/30/2004 JOB NUMBER: JOB NUMBER

GATE LATCH | 3"=1'-0" | 8



FILE/CSI NUMBER: XD07-074 REVISION DATE: 02/19/2021 JOB NUMBER: JOB NUMBER

ROOF | 1"=1'-0" | 4

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
NICOLE MEREDITH
C-19664
let.be: 03/31/27
STATE OF CALIFORNIA

CONSULTANT

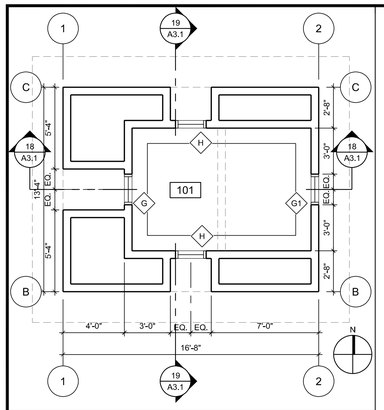
NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN: JM | CHECKED: KN
DATE: 05/21/2025 | SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

TRASH ENCLOSURE & SITE DETAILS

DRAWING NUMBER: A1.4

BID SET_20250918



CLERESTORY PLAN | 1/4" = 1'-0" | 21

LINE OF STONE VENEER OR FURRED WAINSCOT FINISH, WHERE OCCURS. SEE SHEET A3.1, TYP.

6" WOOD STUDS @ 16" O.C. AT INT. LOCATIONS. PROVIDE ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE. AT EXT. LOCATIONS PROVIDE ONE LAYER OF 5/8" GYPSUM BOARD AT INT. SIDE AND 7/8" EXT.PLASTER ON EXT. SIDE.

NOTES:

1. ALL WOOD FRAMED EXTERIOR WALLS ARE TO BE FRAMED ON A RAISED CONCRETE CURB 6" ABOVE FINISH FLOOR. ALL WOOD FRAMED INTERIOR WALLS ENCLOSING RESTROOMS AND LOCKER ROOMS ARE TO BE FRAMED ON A RAISED CONCRETE CURB 6" ABOVE FINISH FLOOR, SEE 8/A8.2 AND STRUCTURAL DRAWINGS FOR ALL OTHER WALLS.
2. SEE 13-19/A8.2 FOR WALL CONDITIONS.
3. FOR SIGNAGE SCHEDULE DETAILS, SEE A8.5.
4. FOR TYPICAL BLOCKING DETAIL, SEE 20/A8.2.
5. SEE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL RECESSED OR SURFACE MOUNTED EQUIPMENT.

WALL LEGEND | 22

REVIEWED
Aug 25 2025
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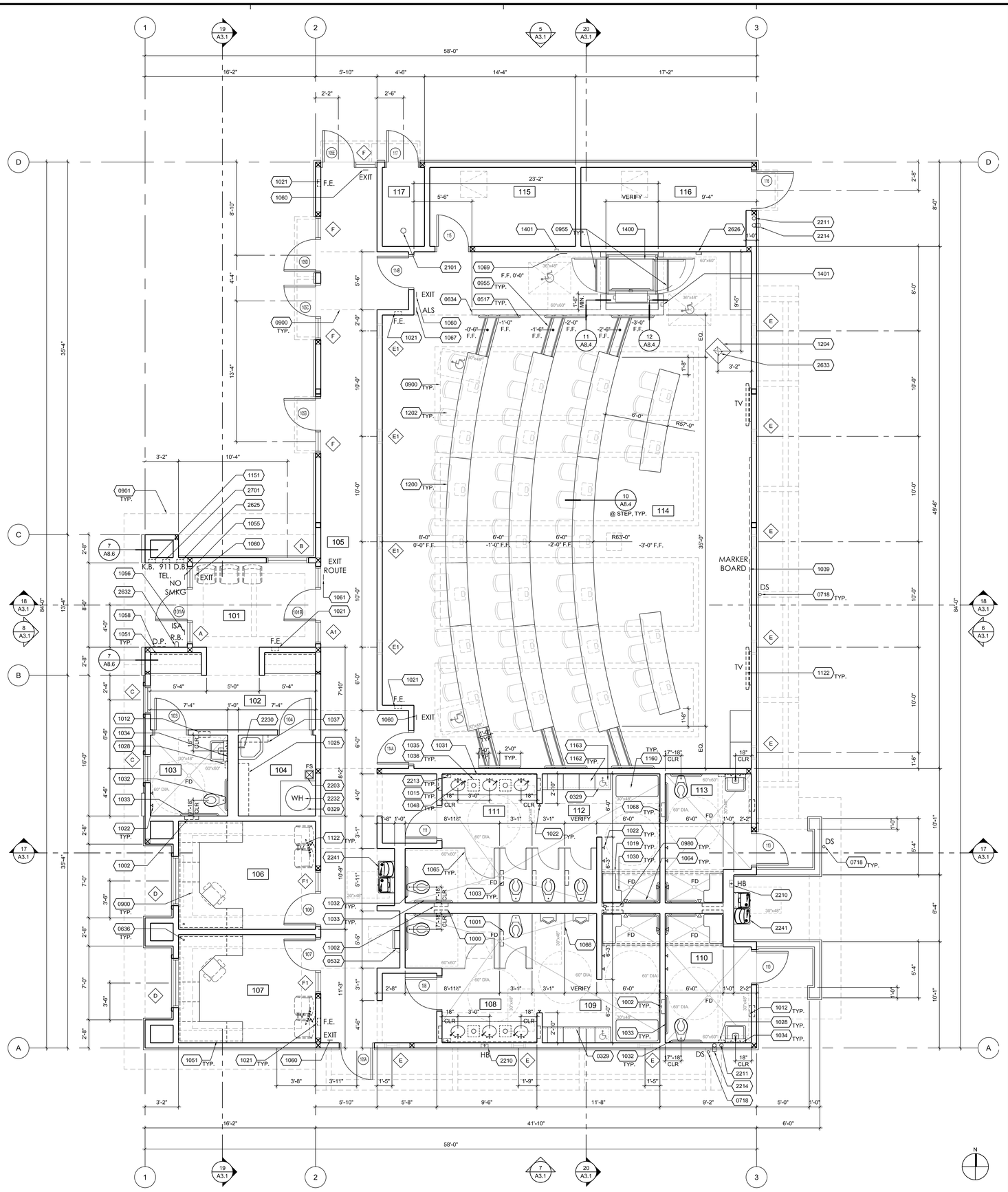

FLOOR PLAN | 1/4" = 1'-0" | 8

REFERENCE NOTES | 4

ROOM #	ROOM NAME		
101	LOBBY	110	UNISEX BATHROOM
102	VESTIBULE	111	WOMEN'S RESTROOM
103	ACCESSIBLE RESTROOM	112	WOMEN'S LOCKERES/ SHOWER
104	CUSTODIAL/ STORAGE	113	UNISEX BATHROOM
105	HALLWAY	114	TRAINING ROOM
106	TRAINING OFFICE 1	115	TRAINING STORAGE
107	TRAINING OFFICE 2	116	ELECTRICAL ROOM
108	MEN'S RESTROOM	117	FIRE RISER ROOM
109	MEN'S LOCKERS/ SHOWER		

ROOM LEGEND | 1

0329	4" HIGH CONCRETE PAD, COORDINATE WITH LOCKER MANUFACTURER, SEE 21/A8.2.
0517	HANDRAIL, SEE 17/A8.4
0532	ROOF ACCESS LADDER, SEE 6/A8.7
0634	PONY WALL, SEE 11 & 12/A8.4
0636	GROMMET
0718	DOWNSPOUT, TYP.
0900	LINE OF GYPSUM BOARD SOFFIT ABOVE, TYP.
0901	LINE OF OVERHANG, TYP.
0955	2" WIDE CONTRASTING COLOR WARNING STRIP
0980	SHOWER NICHE, SEE 6/A8.2
1000	RECESSED SEAT COVER/TOILET TISSUE DISPENSER
1001	SURFACE MNTD. SEAT COVER/TOILET TISSUE DISPENSER
1002	REC. SEAT COVER/TOILET TISSUE DISPENSER & NAPKIN DISPOSAL
1003	SURF. MNTD. SEAT COVER/TOILET TISSUE DISP. & NAPKIN DISP.
1012	RECESSED PAPER TOWEL DISPENSER/WASTE RECEPTACLE, LARGE
1015	RECESSED PAPER TOWEL DISPENSER
1019	SHOWER CURTAIN, ROD AND HOOKS, WIDTH TO MATCH OPENING
1021	FIRE EXTINGUISHER IN RECESSED CABINET, SEE 6/A8.4
1022	ROBE HOOK
1025	SURFACE MNTD. SHELF
1028	SURFACE MNTD. SOAP DISPENSER
1030	ACCESSIBLE FOLDING SHOWER SEAT
1031	LRG. MIRROR W/ STAINLESS STEEL FRAME SIZED TO COUNTER WIDTH
1032	36" LONG GRAB BAR, COORDINATE WITH FLUSH VALVE, SEE 5/A8.4
1033	42" LONG GRAB BAR, COORDINATE WITH FLUSH VALVE, SEE 5/A8.4
1034	MIRROR WITH STAINLESS STEEL FRAME
1035	COUNTERTOP-MOUNTED CIRCULAR WASTE CHUTE
1036	FLOOR-STANDING WASTE RECEPTACLE
1037	CUSTODIANS UTILITY SHELF
1039	MARKER BOARD, SEE 12/A8.2
1048	COUNTER MNTD. SOAP DISPENSER
1051	TACKABLE WALL SURFACE
1055	NO SMOKING SIGNAGE, SEE 8/A8.5
1056	ACCESSIBLE BUILDING ENTRANCE SIGNAGE, SEE 13/A8.5
1058	DEDICATION PLAQUE, SEE 16/A8.5
1060	EXIT SIGN, SEE 9A/A8.5
1061	EXIT ROUTE SIGN, SEE 9B/A8.5
1064	24"X36" SHOWER COMPARTMENT BARS, SEE 5/A8.4
1065	SS TOILET PARTITION, SEE 9/A8.4, TYP.
1066	SS URINAL SCREEN, SEE 9/A8.4
1067	ASSISTIVE LISTENING SYSTEM SIGN, SEE 19/A8.5
1068	TALL MIRROR WITH STAINLESS STEEL FRAME
1069	WHEEL CHAIR LIFT SIGN SIGN, SEE 18/A8.5
1122	TV BRACKET & MEDIA BOX, SEE 11/A8.2, VERIFY FINAL LOCATION
1151	RECESSED KNOX BOX, 8'-0" A.F.F., SEE ELECTRICAL DRAWINGS
1160	ACCESSIBLE LOCKER ROOM BENCH
1162	PERSONNEL LOCKERS, 2-TIER, TYP.
1163	ACCESIBLE PERSONNEL LOCKER
1200	LECTURE TABLE, FIXED, TYP.
1202	CHAIRS, TYP.
1204	LECTERN
1400	WHEEL CHAIR LIFT, SEE 15/A8.4
1401	CALL/ SEND CONTROL
2101	FIRE RISER, SEE PLUMBING DRAWINGS
2203	FLOOR SINK, SEE PLUMBING DRAWINGS
2210	RECESSED HOSE BIBB, SEE PLUMBING DRAWINGS
2211	ROOF DRAIN, SEE PLUMBING DRAWINGS
2213	HOSE BIBB, SEE PLUMBING DRAWINGS
2214	DOWNSPOUT NOZZLE, SEE 2/A8.6 AND PLUMBING DRAWINGS
2230	MOP SINK, SEE PLUMBING DRAWINGS
2232	WATER HEATER, SEE PLUMBING DRAWINGS
2241	DRINKING FOUNTAIN, SEE PLUMB. & ELEC. DRAWINGS
2625	DOORBELL, SEE ELECTRICAL DRAWINGS
2626	WHEEL CHAIR LIFT DISCONNECT, SEE ELECTRICAL DRAWINGS
2632	RED BEACON LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
2633	FLOOR BOX, SEE ELECTRICAL DRAWINGS
2701	911 TELEPHONE, SEE ELECTRICAL DRAWINGS

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FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLE FREEDHAM
C-19664
Ex.Dat 03/31/27
STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN:	JM	CHECKED:	KN
DATE:	05/21/2025	SCALE:	AS NOTED
PROJECT NUMBER:	W2100100AR		

FLOOR PLAN

DRAWING NUMBER: A2.1

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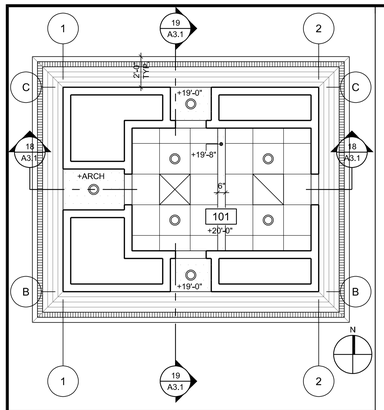

CLERESTORY RCP | 1/4" = 1'-0" | 21

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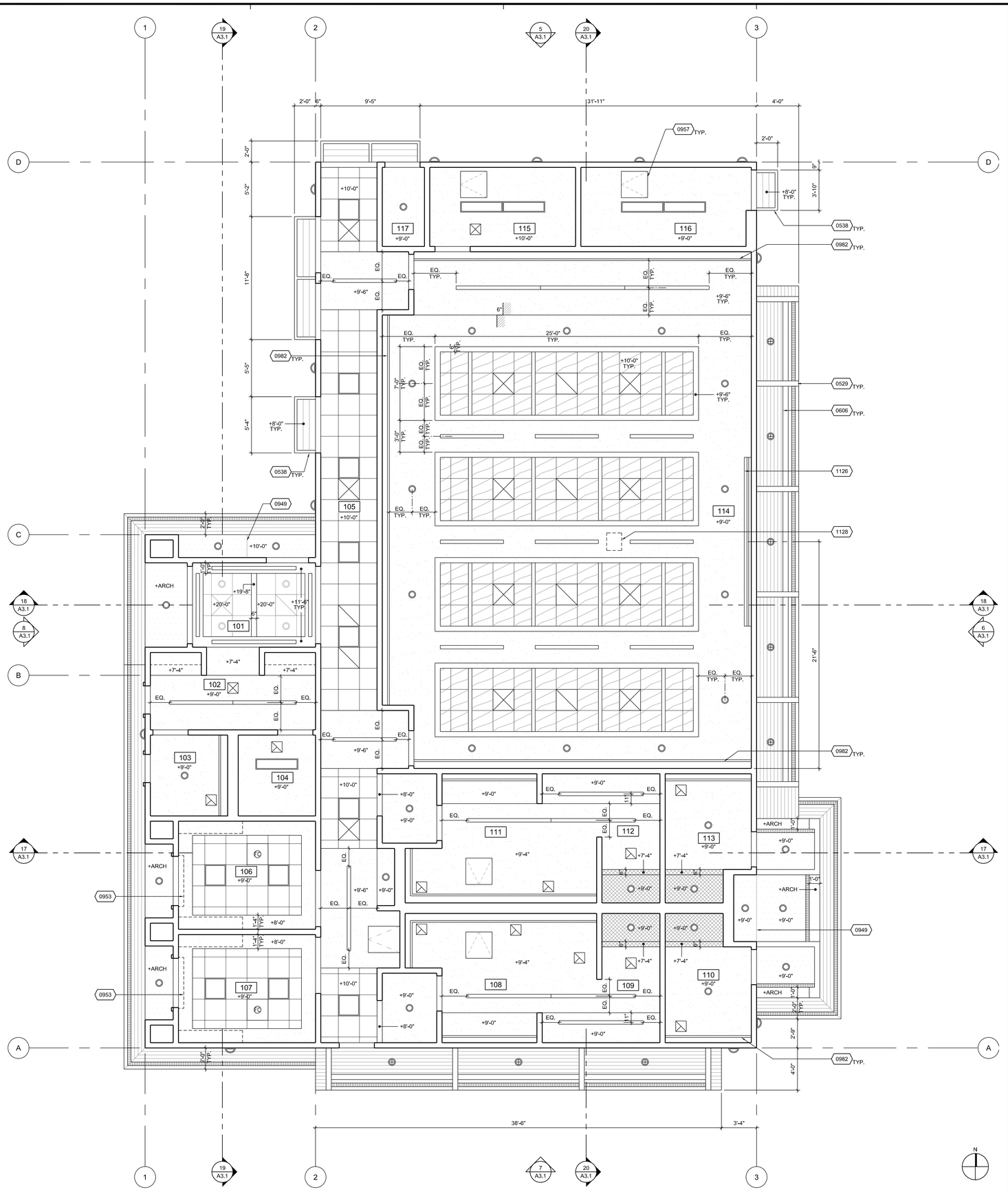
CITY OF FONTANA



REFLECTED CEILING PLAN | 1/4" = 1'-0" | 8

ROOM #	ROOM NAME	
101	LOBBY	
102	VESTIBULE	
103	ACCESSIBLE RESTROOM	
104	CUSTODIAL/ STORAGE	
105	HALLWAY	
106	TRAINING OFFICE 1	
107	TRAINING OFFICE 2	
108	MEN'S RESTROOM	
109	MEN'S LOCKERS/ SHOWER	
110	UNISEX BATHROOM	
111	WOMEN'S RESTROOM	
112	WOMEN'S LOCKERS/ SHOWER	
113	UNISEX BATHROOM	
114	TRAINING ROOM	
115	TRAINING STORAGE	
116	ELECTRICAL ROOM	
117	FIRE RISER ROOM	

ROOM LEGEND | 1

- 2'x2' SUSPENDED ACOUSTICAL TILE
- 2'x2' SUSPENDED WOOD ACOUSTICAL TILE
- TILE
- EXTERIOR PLASTER
- CONTINUOUS SCREENED VENT
- 1x6 T&G CEDAR PLANK
- CONTINUOUS SCREENED VENT
- 5/8" GYPSUM BOARD CEILING, SOFFIT, OR CASED OPENING
- LINE OF CASEWORK OR FRAME, WHERE OCCURS
- MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- ROOF ACCESS HATCH, SEE 5/A8.7 FOR ADDITIONAL INFORMATION

NOTE:
ALL ROOMS ARE TO RECEIVE FINISHED CEILING. NO EXPOSED CEILING IN THE PROJECT

CEILING PLAN LEGEND | 2

- 0529 METAL OUTRIGGER, TYP., SEE 13/A8.6
- 0538 METAL AWNING, SEE 12/A8.6
- 0606 WOOD BEAM, SEE STRUCTURAL DRAWINGS
- 0949 PLASTER CONTROL JOINT, SEE 1/A8.6
- 0953 ROLLER SHADE POCKET IN GYP BD CEILING, SEE 22/A8.1
- 0957 ACCESS PANEL, SEE 16/A8.1
- 0982 SOFFIT WITH COVE LIGHT, SEE 20/A8.1
- 1126 CEILING RECESSED MOTORIZED PROJECTION SCREEN, SEE 18/A8.1
- 1128 CEILING MOUNTED PROJECTOR

NOTES:

1. ALL HEIGHTS ARE REFERENCED FROM FINISH FLOOR ELEVATION = 0'-0". REFER TO PLANS AND SECTIONS FOR ADDITIONAL INFORMATION
2. FOR ADDITIONAL INFORMATION ON SUSPENDED ACOUSTICAL CEILING, SEE SHEET A8.1
3. FOR ATTACHMENT OF METAL LATH AT HORIZONTAL PLASTER SOFFITS, SEE 3/A8.1
4. FOR CONNECTION OF CASEWORK AT GYPSUM BOARD SOFFITS, SEE 4/A8.3
5. ADD CEILING ACCESS PANELS AS REQUIRED BY MECHANICAL, PLUMBING AND ELECTRICAL CODE OR EQUIPMENT MANUFACTURER AT GYPSUM BOARD CEILING AREAS
6. APPROVED SMOKE DETECTORS SHALL BE INSTALLED OUTSIDE EVERY SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS. (NFPA 1500 9.1.3.1)
7. IN BUILDINGS OTHER THAN THOSE PROTECTED THROUGHOUT BY AN APPROVED, SUPERVISED AUTOMATIC FIRE SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH 30.3.5 OF NFPA 101, LIFE SAFETY CODE, APPROVED SMOKE DETECTORS SHALL BE INSTALLED IN EVERY SLEEPING ROOM. (NFPA 1500 9.1.3.2)
8. WHEN SMOKE DETECTORS ACTIVATE, THE GENERAL EVACUATION ALARM SIGNAL SHALL OPERATE THROUGHOUT ENTIRE BUILDING. (NFPA 1500 9.1.3.3)
9. ALL EXISTING AND NEW FIRE DEPARTMENT FACILITIES SHALL HAVE CARBON MONOXIDE DETECTORS INSTALLED IN LOCATIONS IN SLEEPING AND LIVING AREAS, SUCH THAT ANY SOURCE OF CARBON MONOXIDE WOULD BE DETECTED BEFORE ENDANGERING THE MEMBERS. (NFPA 1500 9.1.3.4)
10. FOR TYPICAL ACCESS PANEL, SEE 16/A8.1

REFERENCE NOTES | 4

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LICENSED ARCHITECT
KELLEY KEETHAM
C-19664
exp. date: 03/31/27
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CONSULTANT

NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN: JM | CHECKED: KN
DATE: 05/21/2025 | SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

REFLECTED CEILING PLAN

DRAWING NUMBER: A2.2

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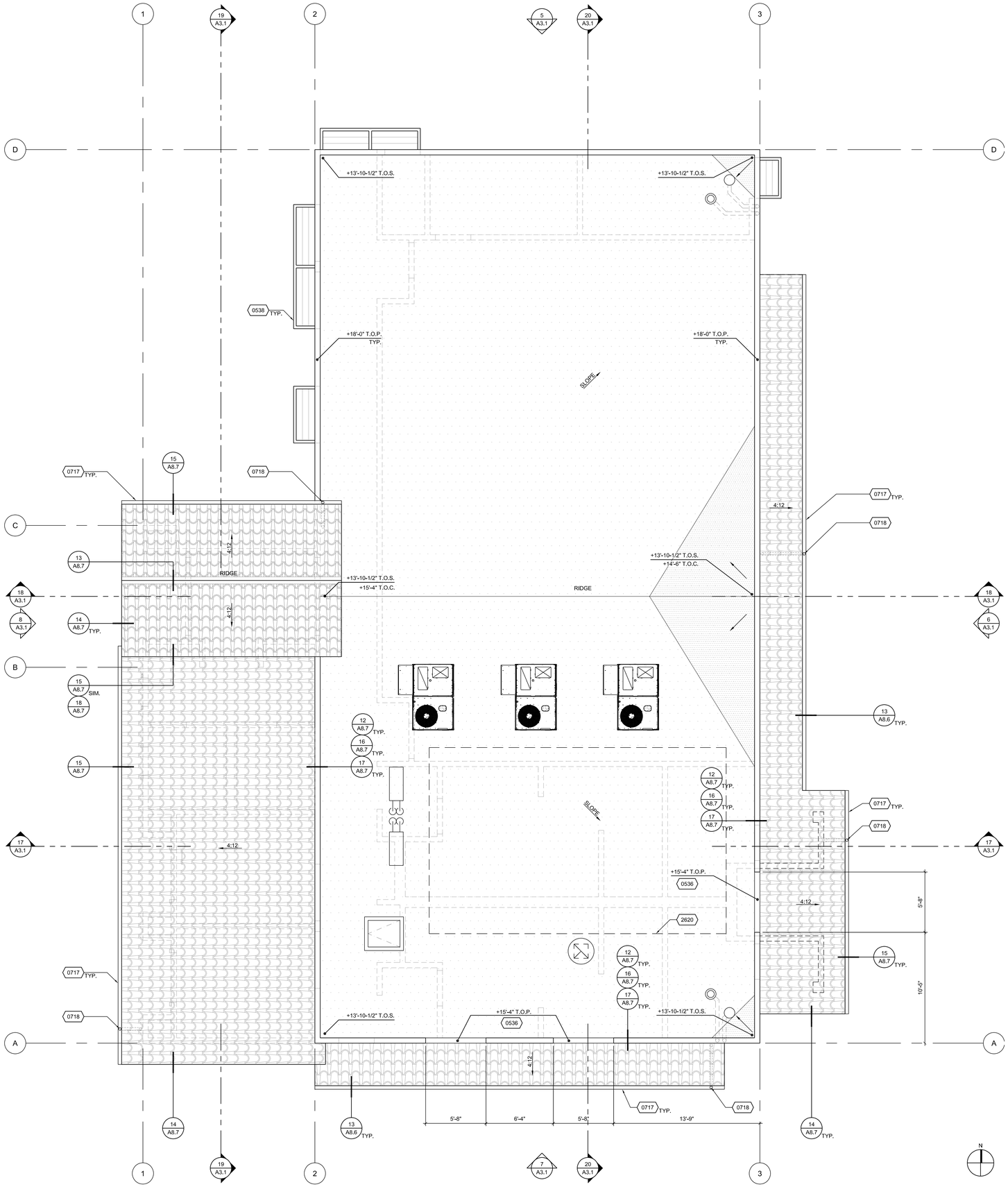

ROOF PLAN LEGEND 1

TILE ROOFING
- EAGLE ROOFING: CAPISTRANO
- FIRE HAZARD CLASSIFICATION: UL CLASS A
- ASTM C 1492
- ICC-ES ESR 1900

MODIFIED BITUMEN ROOFING OVER PLYWOOD SHEATHING
- MEMBRANE MANUFACTURER: JOHNS MANVILLE CORP.
- SYSTEM: 3CND CR-HW / DYNAKAP FR T1 GR G
- FIRE HAZARD CLASSIFICATION: UL CLASS A
- SRI: 0.70 CRRC / EMISSIVITY: 0.90 CRRC

MECHANICAL UNITS, SEE MECHANICAL DRAWINGS AND DETAILS 2, 4/A8.7 FOR CURB/ PLATFORM

ROOF ACCESS HATCH, SEE DETAIL 5/A8.7

CRICKET, SEE DETAILS 1, 2/A8.7

ROOF AND OVERFLOW DRAIN, SEE PLUMBING DRAWINGS AND DETAIL 7/A8.7

SLOPE — PROVIDE MINIMUM 1/4 INCH PER FOOT SLOPE FOR DRAINAGE ALONG FLOW LINES

NOTES:

1. ALL HEIGHTS ARE REFERENCED FROM FINISH FLOOR ELEVATION = 0'-0". REFER TO PLANS AND SECTIONS FOR ADDITIONAL INFORMATION.
2. FOR ADDITIONAL CONDUIT AND PIPING PENETRATIONS AT ROOF AREAS, SEE DETAIL 8/A8.7, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
3. FOR VENT PIPE PENETRATIONS AT ROOFING, SEE DETAILS 9/A8.7 AND 10/A8.7.
4. PROVIDE WALKING PAD TO AND AROUND ALL ROOF TOP MOUNTED MECHANICAL EQUIPMENTS AT FLAT ROOFS.
5. PROVIDE CRICKET AT ROOFTOP EQUIPMENT PER DETAIL 1, 2/A8.7.
6. PROVIDE WOOD FRAME LEVEL PLATFORM FOR ALL ROOF TOP MECHANICAL EQUIPMENT, SEE DETAIL 4/A8.7.
7. FOR FLASHING AT INTERSECTING WALLS, SEE DETAIL 11/A8.7.
8. FOR TYPICAL HEAD WALL FLASHING, SEE DETAIL 17/A8.7.
9. FOR STUD/CMU WALL TO FLAT ROOF TRANSITION, SEE DETAILS 12/A8.7.
10. ALL LOUVERS AND VENTS SHALL HAVE 1/8" NONCOMBUSTIBLE, CORROSION-RESISTANT MESH. EXCEPTION: APPROVED VENTS RESISTING INTRUSION OF FLAMES AND EMBERS.
11. INSTALLATION OF ROOFING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
12. ROOFING MATERIAL ON THE ROOF SHALL NOT EXCEED 10 POUNDS PER SQUARE FOOT (PITCHED).
13. ROOFING MATERIAL ON THE ROOF SHALL NOT EXCEED 5 POUNDS PER SQUARE FOOT (FLAT).

ROOF PLAN NOTES 2

0536 PARAPET TUBE STEEL FENCING, SEE 18/A8.6
0538 METAL AWNING, SEE 12/A8.6
0717 GUTTER SYSTEM, SEE 8/A8.6
0718 DOWNSPOUT, TYP.
2620 SOLAR ZONE AREA, SEE ELECTRICAL DRAWINGS

NOTES:

1. VENTS SHALL RESIST THE INTRUSION OF FLAMES AND EMBERS OR SHALL BE PROTECTED BY LOUVERS AND 1/8-INCH NON-COMBUSTIBLE, CORROSION-RESISTANT METAL MESH.
2. SKYLIGHTS SHALL BE TEMPERED GLASS.
3. ALL ROOFING MATERIAL TO HAVE A MINIMUM CLASS "A" FIRE RATING.
4. SPACE AT EAVE ENDS SHALL HAVE NON-COMBUSTIBLE BIRD STOP TO PRECLUDE ENTRYOF FLAMES OR EMBERS.
5. EXPOSED VALLEY FLASHINGS SHALL BE CONSTRUCTED WITH MIN. 26-GAUGE CORROSION-RESISTANT METAL INSTALLED OVER MIN. 36-INCH WIDE SINGLE LAYER OF No. 72 ASTM CAP SHEET RUNNING FULL LENGTH OF VALLEY.
6. ANY ROOF GUTTERS SHALL BE PROVIDED WITH MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS.

ROOF PLAN | 1/4" = 1'-0" | 8 | REFERENCE NOTES | 4

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C-19864
Ex.Dat: 03/31/27
STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
4			REVISIONS

DRAWN: JM | CHECKED: KN
DATE: 05/21/2025 | SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

ROOF PLAN

DRAWING NUMBER: A2.3

BID SET_20250818

REVIEWED
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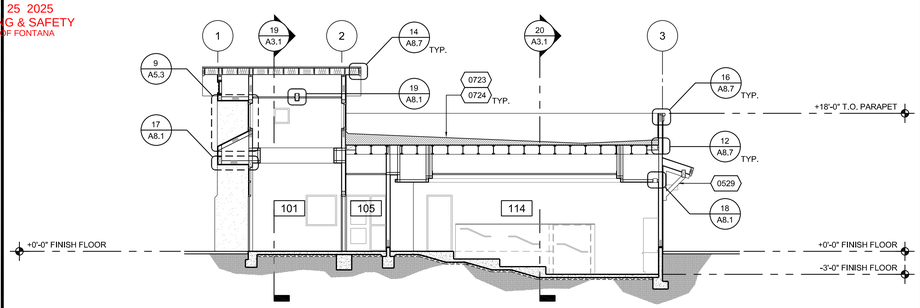
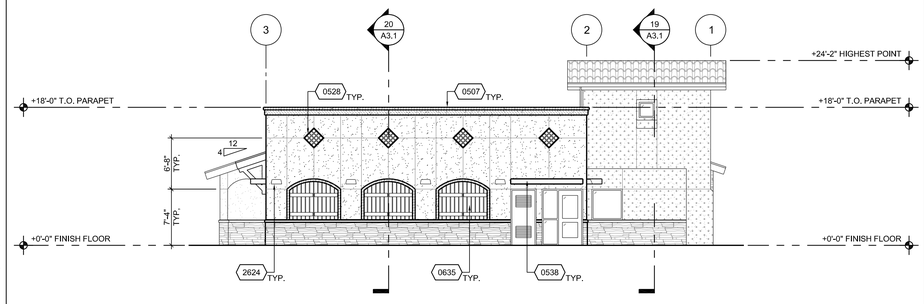


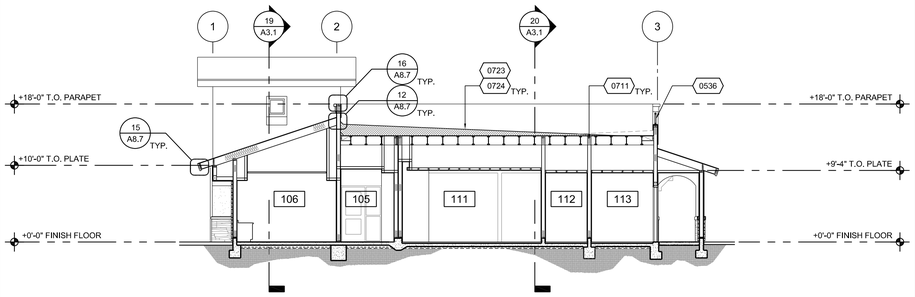
BUILDING SECTION | 1/8" = 1'-0" | 17



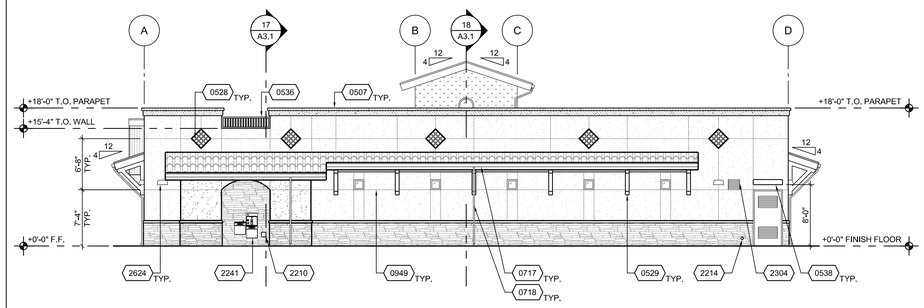
NORTH ELEVATION | 1/8" = 1'-0" | 5

ROOM #	ROOM NAME	
101	LOBBY	
102	VESTIBULE	
103	ACCESSIBLE RESTROOM	
104	CUSTODIAL/ STORAGE	
105	HALLWAY	
106	TRAINING OFFICE 1	
107	TRAINING OFFICE 2	
108	MEN'S RESTROOM	
109	MEN'S LOCKERS/ SHOWER	
110	UNISEX BATHROOM	
111	WOMEN'S RESTROOM	
112	WOMEN'S LOCKERS/ SHOWER	
113	UNISEX BATHROOM	
114	TRAINING ROOM	
115	TRAINING STORAGE	
116	ELECTRICAL ROOM	
117	FIRE RISER ROOM	

ROOM LEGEND | 1



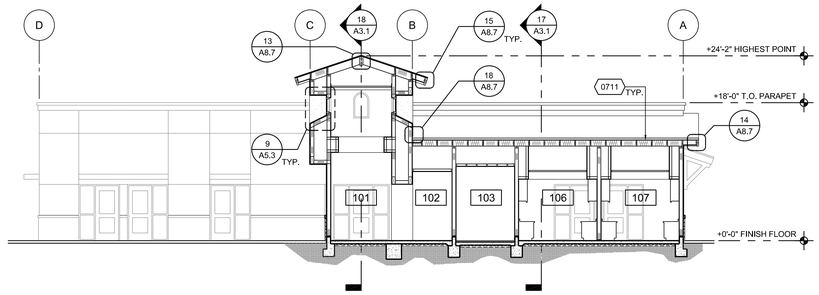
BUILDING SECTION | 1/8" = 1'-0" | 18



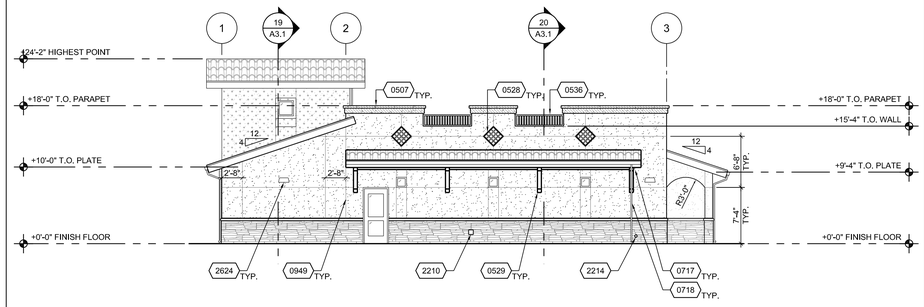
EAST ELEVATION | 1/8" = 1'-0" | 6

MATERIAL LEGEND | 2

- TILE ROOFING
- EXTERIOR PLASTER COLOR 1 (WHITE)
- EXTERIOR PLASTER COLOR 2 (GRAY)
- EXTERIOR PLASTER COLOR 3 (DARK GRAY)
- STONE VENEER, SEE DETAILS 6/A8.6, TYP.



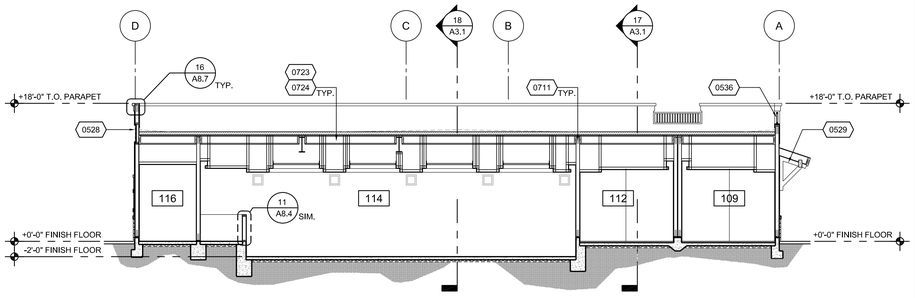
BUILDING SECTION | 1/8" = 1'-0" | 19



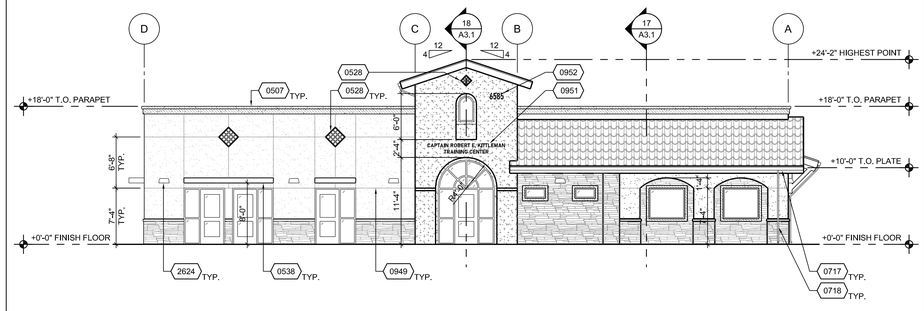
SOUTH ELEVATION | 1/8" = 1'-0" | 7

NOTES:

1. FOR CONTROL JOINT AT EXTERIOR PLASTER LOCATION, SEE DETAIL 1/A8.6.
2. FOR OVERFLOW DRAIN, SEE 2/A8.6 AND PLUMBING DRAWINGS.
3. ALL DOWNSPOUTS FROM GUTTER ARE TO BE CONNECTED TO THE UNDERGROUND STORM DRAIN SYSTEM. SEE DETAIL 3/A8.6 AND CIVIL/PLUMBING DRAWINGS.
4. FOR DOWNSPOUT BRACKET, SEE 4/A8.6.
5. FOR TYPICAL GUTTER PROFILE, SEE 8/A8.6.
6. ALL ROOF GUTTERS SHALL BE PROVIDED WITH MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS PER BUILDING CODE.
7. ALL LOUVERS AND VENTS SHALL HAVE 1/8" NONCOMBUSTIBLE, CORROSION-RESISTANT MESH. EXCEPTION: APPROVED VENTS RESISTING INTRUSION OF FLAMES AND EMBERS.
8. ROOF COVERING SHALL BE INSTALLED AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR "HIGH WIND AREAS"
9. ROLL-UP DOORS SHALL BE INSTALLED AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR "HIGH WIND AREAS"



BUILDING SECTION | 1/8" = 1'-0" | 20



WEST ELEVATION | 1/8" = 1'-0" | 8

REFERENCE NOTES | 4

- 0507 METAL COPING, SEE 16/A8.7
- 0528 ORNAMENTAL WROUGHT IRON GRILL TYP, SEE 10/A8.6
- 0529 METAL OUTRIGGER, TYP., SEE 13/A8.6
- 0536 PARAPET TUBE STEEL FENCING, SEE 18/A8.6
- 0538 METAL AWNING, SEE 12/A8.6
- 0635 FAUX WINDOW, SEE 14/A8.6
- 0711 BATT INSULATION, TYP.
- 0717 GUTTER SYSTEM, SEE 8/A8.6
- 0718 DOWNSPOUT, TYP.
- 0723 TAPERED INSULATION, TYP.
- 0724 BUILT-UP ROOFING, TYP.
- 0949 PLASTER CONTROL JOINT, SEE 1/A8.6
- 0951 6" HIGH STUD-MOUNTED METAL LETTERS, LED BACKLIT
- 0952 10" HIGH STUD-MOUNTED METAL NUMBERS, LED BACKLIT
- 2210 RECESSED HOSE BIBB, SEE PLUMBING DRAWINGS
- 2214 DOWNSPOUT NOZZLE, SEE 2/A8.6 AND PLUMBING DRAWINGS
- 2241 DRINKING FOUNTAIN, PLUMB. & ELEC. DRAWINGS
- 2304 EXHAUST AIR LOUVER, SEE 9/A8.6 AND MECHANICAL DRAWINGS
- 2624 LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS

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CONSULTANT

NO	DATE	BY	DESCRIPTION
4			REVISIONS

DRAWN: JM | CHECKED: KN
DATE: 05/21/2025 | SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

EXT. ELEVATIONS & BUILDING SECTIONS

DRAWING NUMBER: A3.1

BID SET_20250818

#	ROOM NAME	BASE	FLOOR	WAINSCOT NORTH	WAINSCOT EAST	WAINSCOT SOUTH	WAINSCOT WEST	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	INTERIOR ELEVATION SHEET	REMARKS
101	LOBBY	RES	LVT	-	-	-	-	GYP	GYP	GYP	GYP	13/A7.1	-
102	VESTIBULE	RES	LVT	-	-	-	-	GYP	GYP	GYP	GYP	6/A7.1	-
103	ACCESSIBLE RESTROOM	POR	POR	-	-	-	-	POR	POR	POR	POR	14/A7.1	DEPRESS CONCRETE SLAB 2-1/2"
104	CUSTODIAL/ STORAGE	RES	CONC	CER	-	-	CER	IRG	IRG	IRG	IRG	15/A7.1	-
105	HALLWAY	RES	LVT	-	-	-	-	GYP	GYP	GYP	GYP	-	-
106	TRAINING OFFICE 1	RES	CPT	-	-	-	-	GYP	GYP	GYP	GYP	16/A7.1	-
107	TRAINING OFFICE 2	RES	CPT	-	-	-	-	GYP	GYP	GYP	GYP	16/A7.1	-
108	MEN'S RESTROOM	POR	POR	-	-	-	-	POR	POR	POR	POR	5/A7.2	DEPRESS CONCRETE SLAB 2-1/2"
109	MEN'S LOCKER/ SHOWER	POR	POR	-	-	-	-	POR	POR	POR	POR	5/A7.2	DEPRESS CONCRETE SLAB 2-1/2"
110	UNISEX BATHROOM	POR	POR	-	-	-	-	POR	POR	POR	POR	8/A7.1	DEPRESS CONCRETE SLAB 2-1/2"
111	WOMEN'S RESTROOM	POR	POR	-	-	-	-	POR	POR	POR	POR	6/A7.2	DEPRESS CONCRETE SLAB 2-1/2"
112	WOMEN'S LOCKERS/ SHOWER	POR	POR	-	-	-	-	POR	POR	POR	POR	6/A7.2	DEPRESS CONCRETE SLAB 2-1/2"
113	UNISEX BATHROOM	POR	POR	-	-	-	-	POR	POR	POR	POR	8/A7.1	DEPRESS CONCRETE SLAB 2-1/2"
114	TRAINING ROOM	RES	CPT	-	-	-	-	GYP/PLAM	GYP/PLAM	GYP/PLAM	GYP/PLAM	8/A7.2	-
115	TRAINING STORAGE	RES	CONC	-	-	-	-	IRG	IRG	IRG	IRG	-	-
116	ELECTRICAL ROOM	RES	CONC	-	-	-	-	GYP	GYP	GYP	GYP	-	-
117	FIRE RISER ROOM	RES	CONC	-	-	-	-	GYP	GYP	GYP	GYP	-	-

FINISH NOTES:

1. ALL GYP. BOARD SURFACES TO BE PAINTED, TYP.
2. WALL, FLOOR AND CEILING FINISHES SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN 2022 CBC TABLE 803.13.
3. PROVIDE FULL HEIGHT FRP FINISH AT ALL MOP SINK LOCATIONS, U.N.O.
4. FOR TYPICAL WALL BASE, SEE DETAIL 4/A8.2.
5. FOR WALL BASE AT TILED LOCATION, SEE DETAIL 8/A8.2.
6. ALL EXPOSED CONCRETE BASE TO HAVE 3/4" RADIUS COVE.
7. FOR FLOOR TRANSITIONS, SEE DETAIL 9/A5.2.
8. DEPRESS CONCRETE SLAB 2-1/2" WHERE PORCELAIN FLOOR FINISH IS SCHEDULED, U.N.O.
9. VERIFY ALL FLOOR PATTERNS WITH ARCHITECT, SEE SHEET A6.2.
10. PORCELAIN TILE TO BE OVER TYPE X TILE BACKER BOARD AT ALL WALL AND CEILING LOCATIONS, U.N.O.
11. FOR TYPICAL WALL TILE PATTERN, SEE DETAIL 7/A8.2.
12. FOR TYPICAL SHOWER STALL, SEE DETAIL 1/A8.2.
13. FOR SECTION THROUGH TYPICAL SHOWER STALL, SEE DETAIL 3/A8.2.
14. 7/8" FURRING CHANNELS AT 16" O.C. SHALL BE USED ON ALL MASONRY SURFACES SCHEDULED TO RECEIVE GYPSUM BOARD FINISH AND 1-1/2" MIN. WHERE THERE IS CONDUIT, U.N.O.

MATERIAL LEGEND:

BASE

CER	CERAMIC TILE BASE
CONC	EXPOSED CONCRETE CURB
RES	RESILIENT BASE
EPXY	EPOXY BASE

FLOOR

ATL	ATHLETIC FLOORING
CONC	EXPOSED CONCRETE, SEALED WITH ASHFORD FORMULA, AND UL-390 E-ZEE SEAL BY ALLIED INTERNATIONAL
CER	CERAMIC TILE
CPT	CARPET
EPXY	EPOXY FLOORING
LVT	LUXURY VINYL TILE
PC	POLISHED CONCRETE
POR	PORCELAIN TILE
RES	RESILIENT FLOORING
RUB	RUBBER FLOORING

WALL

AEG	ACOUSTICALLY ENHANCED GYPSUM BOARD
CMU	EXPOSED CONCRETE MASONRY
CONC	EXPOSED CONCRETE
CER	CERAMIC TILE
FRP	FIBERGLASS REINFORCED PANELS OVER GYPSUM BOARD
GYP	GYPSUM BOARD
IRG	IMPACT RESISTANT / ABUSE RESISTANT GYPSUM BOARD
MIR	MIRROR OVER IR GYPSUM BOARD
MRG	MOISTURE RESISTANT GYPSUM BOARD
PLAM	PLASTIC LAMINATE PANEL
POR	PORCELAIN TILE
PVC	PVC INTERLOCKING PANEL

FINISH SCHEDULE AND NOTES

#	DOOR SIZE	FEATURE TYPE	FEATURE THICKNESS	FEATURE LABEL (MIN.)	HARDWARE GROUP	HARDWARE SELF CLOSING	HARDWARE PANIC	MAT'L DOOR	MAT'L FRAME	FINISH DOOR	FINISH FRAME	DETAILS SEE SHEET A5.2, U.N.O. HEAD	DETAILS JAMB	DETAILS SILL	GLAZING TYPE	REMARKS
101A	3'-0" x 7'-2"	A	1 3/4"	-	1	Y	Y	HM	HM	P	P	5	5	4	A	7, 9, 10
101B	3'-0" x 7'-2"	A	1 3/4"	-	2	Y	Y	HM	HM	P	P	8	5	-	A	8
103	3'-0" x 7'-2"	D	1 3/4"	-	3	Y	-	WS	HM	PL	P	8	8	9A	-	4
104	3'-0" x 7'-2"	C	1 3/4"	-	4	Y	-	WS	HM	PL	P	8	8	9B	C	4
105A	3'-0" x 7'-2"	A	1 3/4"	-	5	Y	Y	HM	HM	P	P	6	6, 7	4	A	1, 7
105B	3'-0" x 7'-2"	A	1 3/4"	-	6	Y	-	HM	HM	P	P	6	5, 6, 7	4	A	-
105C	3'-0" x 7'-2"	A	1 3/4"	-	6	Y	-	HM	HM	P	P	6	5, 6, 7	4	A	-
105D	3'-0" x 7'-2"	A	1 3/4"	-	6	Y	-	HM	HM	P	P	6	5, 6, 7	4	A	-
105E	3'-0" x 7'-2"	A	1 3/4"	-	5	Y	Y	HM	HM	P	P	6	5, 6, 7	4	A	1, 7
106	3'-0" x 7'-2"	B	1 3/4"	-	7	Y	-	WS	HM	PL	P	8	5, 8	9B	C	-
107	3'-0" x 7'-2"	B	1 3/4"	-	7	Y	-	WS	HM	PL	P	8	5, 8	9B	C	-
108	3'-0" x 7'-2"	D	1 3/4"	-	8	Y	-	WS	HM	PL	P	8	8	9A	-	2, 13
110	3'-0" x 7'-2"	D	1 3/4"	-	9	Y	-	HM	HM	P	P	6	6, 7	4	-	2, 11
111	3'-0" x 7'-2"	D	1 3/4"	-	8	Y	-	WS	HM	PL	P	8	8	9A	-	2, 12
113	3'-0" x 7'-2"	D	1 3/4"	-	9	Y	-	HM	HM	P	P	6	6, 7	4	-	2, 11
114A	3'-0" x 7'-2"	C	1 3/4"	-	10	Y	Y	WS	HM	PL	P	8	8	9B	C	7
114B	3'-0" x 7'-2"	C	1 3/4"	-	10	Y	Y	WS	HM	PL	P	8	8	9B	C	7, 15
115	3'-0" x 7'-2"	C	1 3/4"	-	7	Y	-	WS	HM	PL	P	8	8	9B	C	4
116	3'-6" x 7'-2"	D	1 3/4"	-	11	Y	Y	HM	HM	P	P	6	6, 7	4	-	30" x 18" TOP AND BOTTOM DOOR LOUVER
117	3'-0" x 7'-2"	D	1 3/4"	-	12	-	-	HM	HM	P	P	6	6, 7	4	-	3, 14
	SITE GATES															
G1	7'-0" x HEIGHT	-	-	-	SG1	-	-	ST	ST	P	P	-	-	-	-	TOP TO MATCH TOP OF CMU CAP, SEE 2/A1.4.
G2	3'-0" x HEIGHT	E	-	-	SG2	Y	-	ST	ST	P	P	-	-	-	-	TOP TO MATCH TOP OF CMU CAP, SEE 10/A1.4.
G3	29'-0" x HEIGHT	-	-	-	SG3	-	-	ST	ST	P	P	-	-	-	-	ROLLING GATE, SEE 13/A1.4.
G4	3'-0" x HEIGHT	E	-	-	SG4	Y	-	ST	ST	P	P	-	-	-	-	TOP TO MATCH TOP OF CMU CAP, SEE 11/A1.4.
G5	3'-0" x HEIGHT	E	-	-	SG4	Y	-	ST	ST	P	P	-	-	-	-	TOP TO MATCH TOP OF CMU CAP, SEE 12/A1.4.
G6	39'-0" x HEIGHT	-	-	-	SG3	-	-	ST	ST	P	P	-	-	-	-	ROLLING GATE, SEE 14/A1.4.
G7	9'-0" x HEIGHT	-	-	-	SG5	-	-	ST	ST	P	P	-	-	-	-	TOP TO MATCH TOP OF CMU CAP, SEE 7/A1.4.

MATERIAL/FINISH ABBREVIATIONS:

AL	=	ALUMINUM
AN	=	ANODIZED
FF	=	FACTORY FINISH
HM	=	HOLLOW METAL
P	=	PAINTED FINISH
PL	=	PLASTIC LAMINATE
ST	=	STEEL
TG	=	TEMPERED GLAZING
WV	=	WOOD, VENEER
WS	=	WOOD, SOLID CORE
Y	=	YES

DOOR NOTES

1. ALL LANDINGS TO HAVE MAXIMUM 1:50 SLOPE (2% GRADIENT) IN ALL DIRECTIONS - ON EACH SIDE OF EACH DOOR. ALL THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2" IN HEIGHT.
2. MAXIMUM FORCE TO OPERATE DOORS IS LIMITED TO 5-LB OF FORCE.
   EXCEPTION: REQUIRED FIRE DOORS MAY HAVE MIN. OPENING FORCE ALLOWED BY FIRE JURISDICTION, NOT TO EXCEED 15-LB OF FORCE.
3. DOORS WITH CLOSERS SHALL HAVE SWEEP PERIOD OF MIN. 3 SECONDS FROM 70-DEGREE OPENING POSITION UNTIL LEADING EDGE OF DOOR IS WITHIN 3 INCHES OF LATCH.
4. PROVIDE METAL TRIM NEAR BOTTOM OF DOOR JAMB AT ALL EXPOSED CONCRETE BASE (IE. APPARATUS ROOM) TO MAKE UP DIFFERENCE BETWEEN GYPSUM BOARD THICKNESS AND BARE CONCRETE BASE.
5. FIRE RATED GLAZING FOR FIRE RATED DOORS TO BE IN ACCORDANCE WITH CBC 2022, SECTION 716.2.5 AND TABLE 716.1(2).
6. FENESTRATIONS MUST HAVE TEMPORARY AND PERMANENT LABELS. (OVERALL U-FACTOR 0.30, SHGC 0.25, AND VT 0.50).

DOOR REMARKS

1. PUSHBUTTON/KEYPAD ACCESS
2. 24" x 18" BOTTOM DOOR LOUVER
3. 24" x 18" TOP AND BOTTOM DOOR LOUVER
4. 3/4" DOOR UNDERCUT ABOVE THRESHOLD, U.N.O.
5. 24" x 18" BOTTOM DOOR LOUVER AT EACH DOOR
6. 24" x 18" TOP AND BOTTOM DOOR LOUVER AT EACH DOOR
7. PROVIDE EXIT SIGN, SEE 9/A8.5.
8. PROVIDE EXIT ROUTE SIGN, SEE 9B/A8.5.
9. PROVIDE ACCESSIBILITY SIGN, SEE 13/A8.5.
10. PROVIDE NO SMOKING SIGN, SEE 8/A8.5.
11. PROVIDE UNISEX RESTROOM SIGNS, SEE 14/A8.5 AND 15/A8.5.
12. PROVIDE WOMEN'S RESTROOM SIGNS, SEE 6/A8.5 AND 7/A8.5.
13. PROVIDE MEN'S RESTROOM SIGNS, SEE 10/A8.5 AND 11/A8.5.
14. PROVIDE FIRE RISER SIGN, SEE 17/A8.5.
15. PROVIDE ASSISTIVE LISTENING SYSTEM SIGN, SEE 19/A8.5.

- (SIGNS SHALL BE MOUNTED PER DETAILS 2/A8.5 AND 3/A8.5).

DOOR SCHEDULE AND NOTES

#	WINDOW SIZE (WIDTH X HEIGHT)	TYPE	LABEL (MIN.)	GLAZING TYPE	GLAZING THICKNESS	FRAME MATERIAL	FRAME FINISH	DETAILS SEE SHEET A5.3, U.N.O. HEAD	DETAILS JAMB	DETAILS SILL	DETAILS OTHER	ROLLER SHADE TYPES	REMARKS
A	7'-4" x 11'-0"	W1	-	A	1"	HM	P	1	1, 2, 3	4	-	-	-
A1	7'-4" x 7'-4"	W2	-	A	1"	HM	P	6	6	7	-	-	-
B	4'-0" x 4'-0"	W3	-	A	1"	HM	P	1	1	5	-	1	-
C	2'-8" x 1'-4"	W4	-	A	1"	HM	P	5	5	5	-	-	FROSTED GLASS @ ROOM 103
D	4'-8" x 4'-0"	W5	-	A	1"	HM	P	5	5	5	-	1	-
E	1'-4" x 1'-4"	W6	-	A	1"	HM	P	1	1	1	-	-	-
E1	1'-4" x 1'-4"	W6	-	C	1"	HM	P	6	6	6	-	-	-
F	5'-4" x 7'-4"	W7	-	A	1"	HM	P	1	1, 2	4	-	-	-
F1	5'-4" x 7'-4"	W7	-	C	1"	HM	P	6	6	7	-	-	-
G	2'-0" x 3'-4"	W8	-	A	1"	HM	P	9	9	9	-	-	-
G1	2'-0" x 3'-4"	W8	-	A	1"	HM	P	1	1	1	-	-	-
H	2'-0" x 2'-0"	W9	-	A	1"	HM	P	9	9	9	-	-	-

MATERIAL/FINISH ABBREVIATIONS:

AL	=	ALUMINUM
AN	=	ANODIZED
FF	=	FACTORY FINISH
HM	=	HOLLOW METAL
P	=	PAINTED FINISH
PL	=	PLASTIC LAMINATE
ST	=	STEEL
TG	=	TEMPERED GLAZING
WV	=	WOOD, VENEER
WS	=	WOOD, SOLID CORE
Y	=	YES

GLAZING TYPES:

TYPE A: INSULATED, 1" THICK, TINTED TEMPERED OUTER PANE, CLEAR TEMPERED INNER PANE, LOW E COATING ON SURFACE 2
TYPE AO: INSULATED, 1" THICK, TINTED TEMPERED OUTER PANE, OBSCURED TEMPERED INNER PANE, LOW E COATING ON SURFACE 2
TYPE B: TEMPERED, TINTED, 1/4" THICK, U.N.O.
TYPE C: TEMPERED, CLEAR, 1/4" THICK, U.N.O.
TYPE F: FIRE RATED SAFETY GLASS

ROLLER SHADE TYPES:

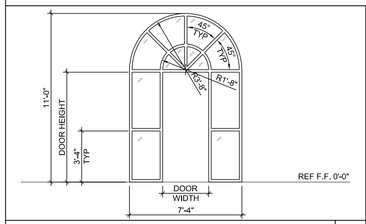
TYPE 1: MANUAL SINGLE SHADE
TYPE 2: MANUAL DOUBLE SHADE (W/ BLACK-OUT SHADE @ ALL DORMITORIES)
TYPE 3: MOTORIZED SINGLE SHADE

NOTE: ROLLER SHADE SHALL COVER ALL GLAZING AREAS

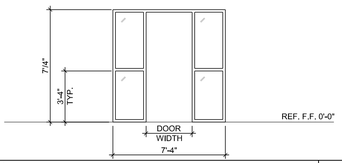
WINDOW NOTES:

1. FENESTRATIONS MUST HAVE TEMPORARY AND PERMANENT LABELS (OVERALL U-FACTOR 0.30, SHGC 0.25, AND VT 0.50).
2. FIRE RATED GLAZING FOR FIRE RATED WINDOWS TO BE IN ACCORDANCE WITH CBC 2022, TABLE 716.1(3) AND SECTION 716.1.2.3.1.

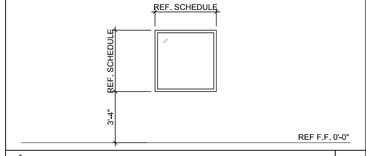
WINDOW SCHEDULE AND NOTES



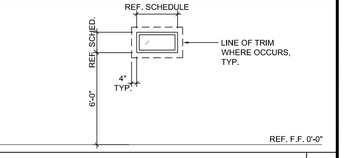
A — W1



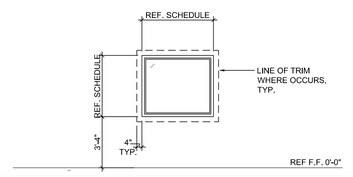
A1 — W2



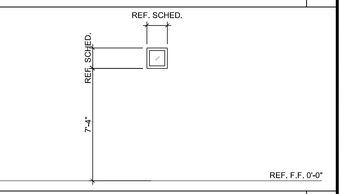
B — W3



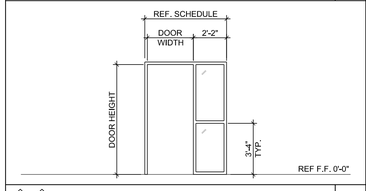
C — W4



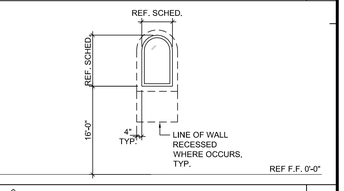
D — W5



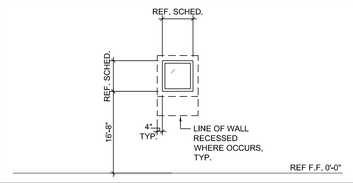
E E1 — W6



F F1 — W7



G G1 — W8

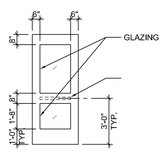


H — W9

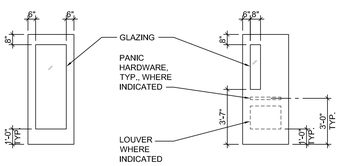
WINDOW TYPES

NOTES:

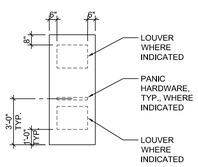
1. ALL LOUVERS TO HAVE 50% FREE AREA.
2. FOR TYPICAL FRAME PROFILE, SEE DETAIL 1/A5.2.
3. FOR TYPICAL DOOR ANCHORAGE, SEE DETAIL 2/A5.2.
4. FOR PUSH PLATE AND KICK PLATE INFORMATION, SEE DETAIL 3/A5.2.



TYPE A



TYPE B TYPE C



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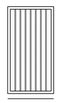


TYPE E

DOOR TYPES

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLY KESSHAM
C-19664
Re Dte: 03/31/27
STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
1			REVISIONS

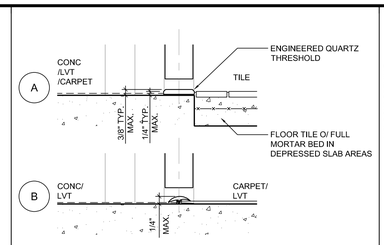
DRAWN: JM | CHECKED: KN
DATE: 05/21/2025 | SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

DOOR, WINDOW & FINISH SCHEDULES

DRAWING NUMBER: A5.1

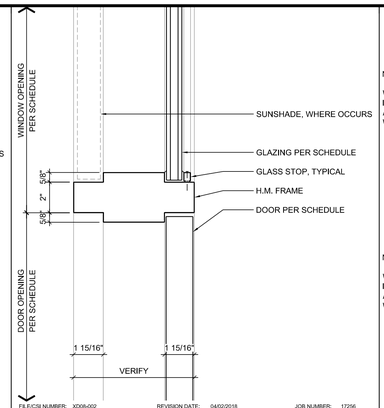
BID SET_20250818

REVIEWED
Aug 25, 2025
BUILDING & SAFETY
CITY OF FONTANA



FILE/CSI NUMBER: XD08-052_20B REVISION DATE: 08/21/2023 JOB NUMBER:

		21			17			13	INTERIOR THRESHOLDS	3"=1'-0"	9	HEAD / JAMB SIM.	3"=1'-0"	5	FRAME PROFILE, TYP.	3"=1'-0"	1
		22			18			14			10	EXT. DOOR HEAD / JAMB SIM.	3"=1'-0"	6	DOOR ANCHORAGE, TYP.	NTS	2
		23			19			15			11	EXT. DOOR HEAD / JAMB SIM.	3"=1'-0"	7	KICK / PUSH PLATES	1"=1'-0"	3
		24			20			16			12	INT. HEAD / JAMB SIM.	3"=1'-0"	8	EXTERIOR THRESHOLD	3"=1'-0"	4



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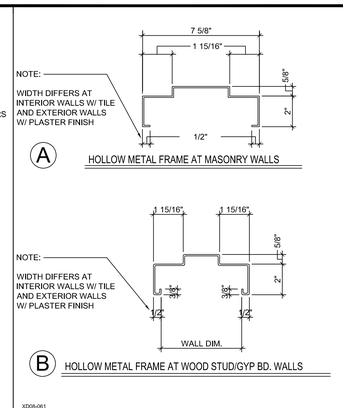
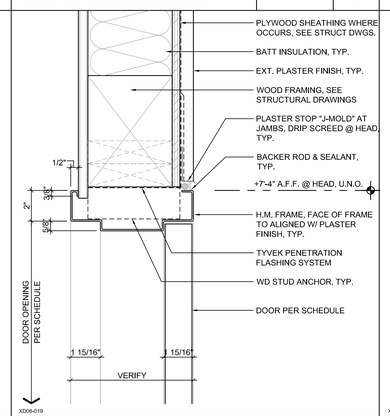
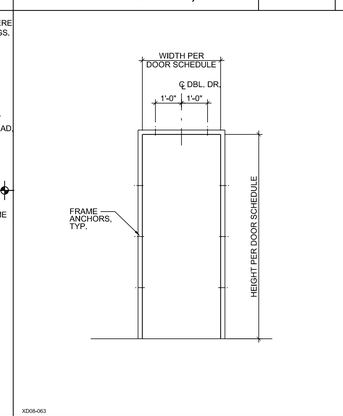


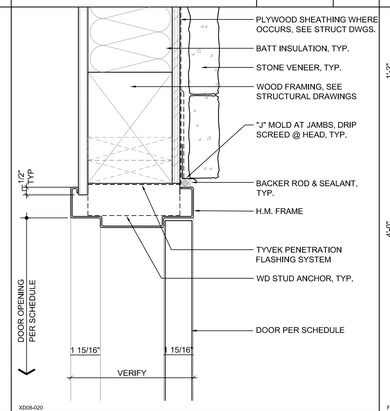
XD08-061



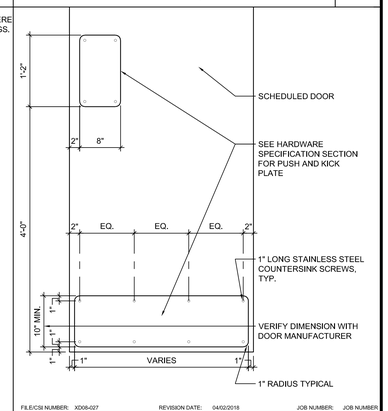
XD08-019



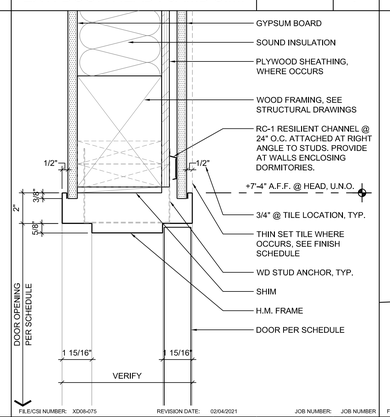
XD08-063



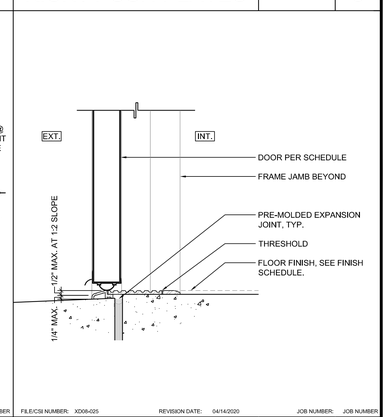
XD08-020



FILE/CSI NUMBER: XD08-027 REVISION DATE: 04/02/2018 JOB NUMBER: JOB NUMBER



FILE/CSI NUMBER: XD08-075 REVISION DATE: 02/04/2021 JOB NUMBER: JOB NUMBER



XD08-025 REVISION DATE: 04/14/2020 JOB NUMBER: JOB NUMBER

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FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLEY PENDHAM
C-19664
for.3e 03/31/27
STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN: JM	CHECKED: KN
DATE: 05/21/2025	SCALE: AS NOTED
PROJECT NUMBER: W2100100AR	

DOOR DETAILS

DRAWING NUMBER: A5.2

BID SET_20250818

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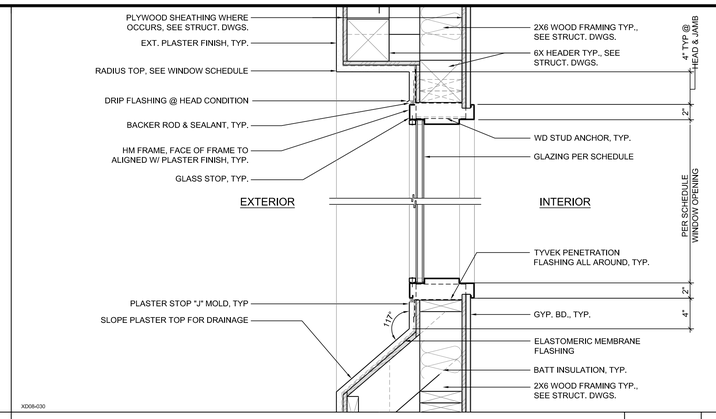
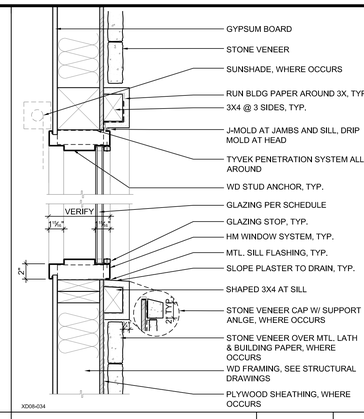
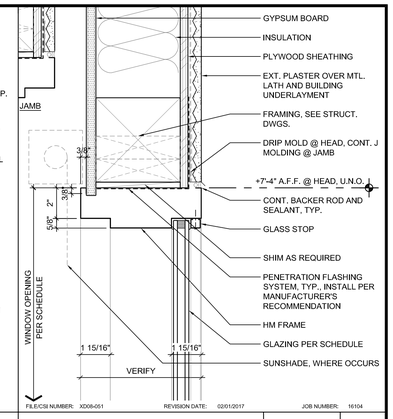
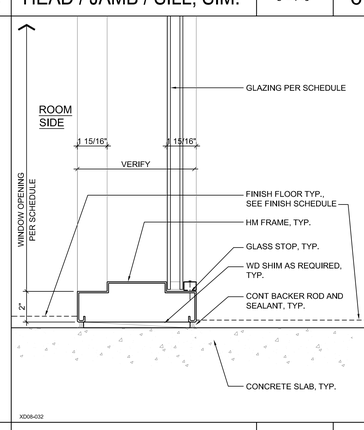
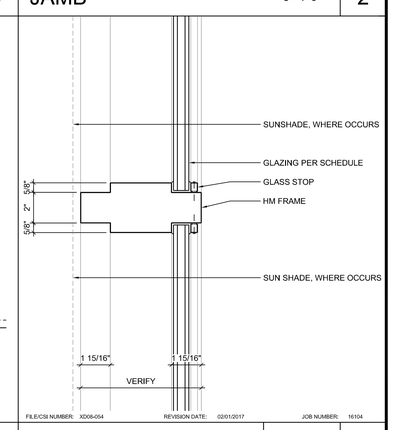






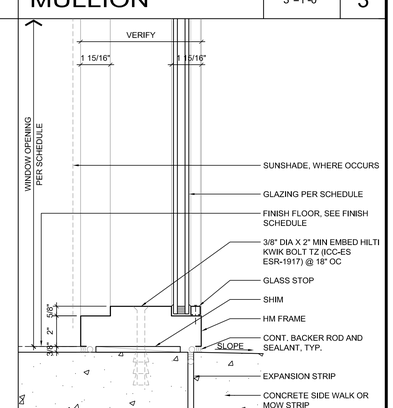
		21			17	HEAD / SILL / JAMB, SIM.	1-1/2"=1'-0"	9	HEAD / JAMB / SILL, SIM.	1-1/2"=1'-0"	5	HEAD / JAMB / SILL, SIM.	3"=1'-0"	1





		22			18			14			10	HEAD / JAMB / SILL, SIM.	3"=1'-0"	6	JAMB			3"=1'-0"	2

		23			19			15			11	SILL	3"=1'-0"	7	MULLION			3"=1'-0"	3



		24			20			16			12			8	SILL			3"=1'-0"	4

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KYLE KEITHAM
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DRAWN:	KWC/JM	CHECKED:	KN
DATE:	05/21/2025	SCALE:	AS NOTED
PROJECT NUMBER:	W2100100AR		

WINDOW DETAILS

DRAWING NUMBER: A5.3

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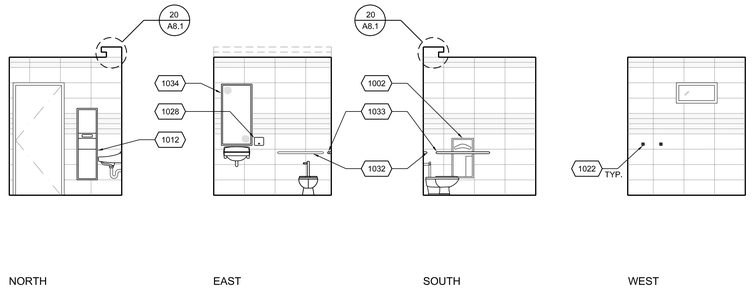
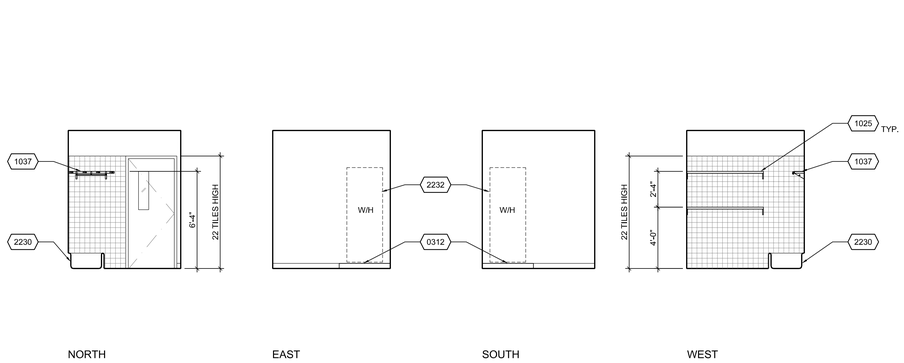
ROOM 101 - LOBBY

1/4" = 1'-0" | 13



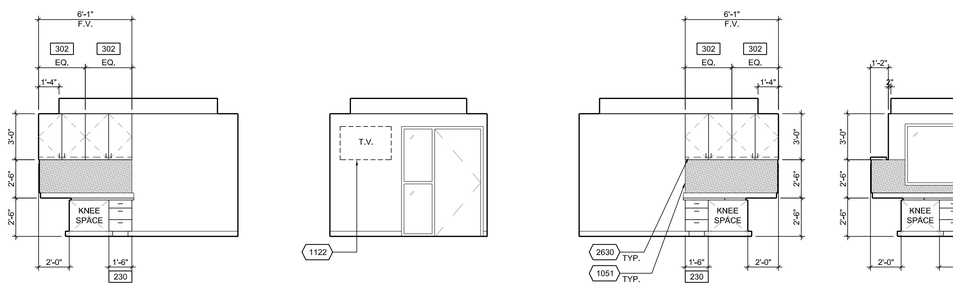
ROOM 103 - ACCESSIBLE RESTROOM

1/4" = 1'-0" | 14



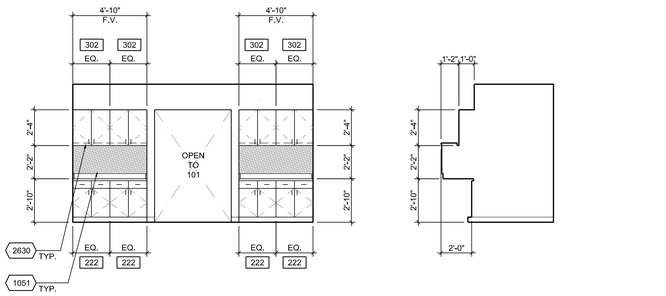
ROOM 104 - CUSTODIAL/ STORAGE

1/4" = 1'-0" | 15



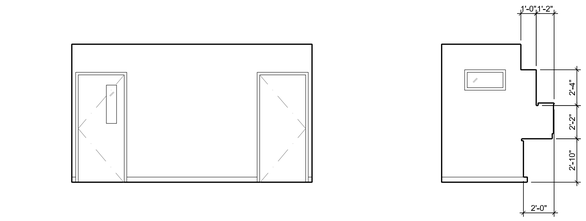
ROOM 106/107 - TRAINING OFFICE 1, TRAINING OFFICE 2 (MIRROR)

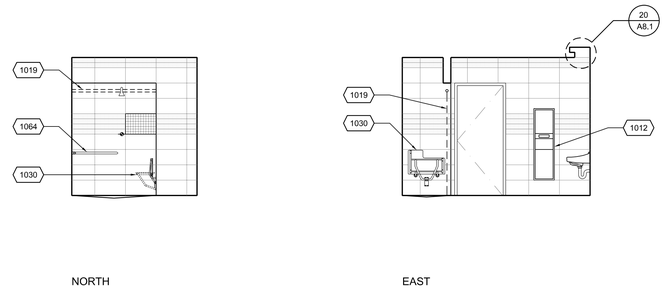
1/4" = 1'-0" | 16



ROOM 102 - VESTIBULE

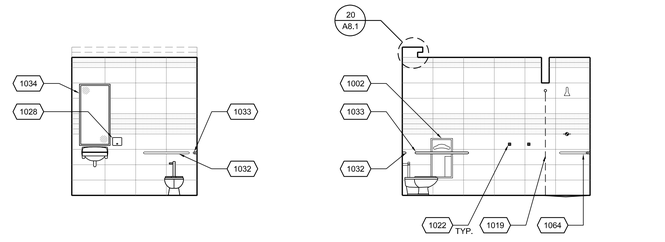
1/4" = 1'-0" | 6





ROOM 110/113 - UNISEX RESTROOM, RM. 113 (MIRROR)

1/4" = 1'-0" | 8



REFERENCE NOTES

4

0312	4" HIGH CONCRETE PAD WITH SCHEDULED BASE
1002	REC. SEAT COVER/TOILET TISSUE DISPENSER & NAPKIN DISPOSAL
1012	RECESSED PAPER TOWEL DISPENSER/WASTE RECEPTACLE, LARGE
1019	SHOWER CURTAIN, ROD AND HOOKS, WIDTH TO MATCH OPENING
1021	FIRE EXTINGUISHER IN RECESSED CABINET, SEE 6/A8.4
1022	ROBE HOOK
1025	SURFACE MNTD. SHELF
1028	SURFACE MNTD. SOAP DISPENSER
1030	ACCESSIBLE FOLDING SHOWER SEAT
1032	36" LONG GRAB BAR, COORDINATE WITH FLUSH VALVE, SEE 5/A8.4
1033	42" LONG GRAB BAR, COORDINATE WITH FLUSH VALVE, SEE 5/A8.4
1034	MIRROR WITH STAINLESS STEEL FRAME
1037	CUSTODIANS UTILITY SHELF
1051	TACKABLE WALL SURFACE
1064	24"X36" SHOWER COMPARTMENT BARS, SEE 5/A8.4
1122	TV BRACKET & MEDIA BOX, SEE 11/A8.2, VERIFY FINAL LOCATION
2230	MOP SINK, SEE PLUMBING DRAWINGS
2232	WATER HEATER, SEE PLUMBING DRAWINGS
2630	UNDER CABINET LIGHTING, SEE 12/A8.3 AND ELECTRICAL DRAWINGS

NOTES:

1. FOR TYPICAL WALL PATTERN, SEE 7/A8.2
2. FOR CASEWORK SCHEDULE, SEE 2/A8.3
3. FOR CASEWORK ANCHORAGE DETAIL, SEE 4/A8.3
4. FOR CASEWORK FACE PANEL DETAIL, SEE 9/A8.3
5. FOR COUNTERTOP DETAILS, SEE 10/A8.3
6. FOR LAVATORY COUNTERTOP, SEE 11/A8.3
7. FOR UNDERCABINET LIGHT FIXTURE, SEE 12/A8.3
8. FOR FIXTURE HEIGHT SCHEDULE, SEE 2/A8.4
9. FOR TOILET ROOM ACCESSORIES, SEE 4/A8.4

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CONSULTANT

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INTERIOR ELEVATIONS

DRAWING NUMBER: A7.1

BID SET_20250818

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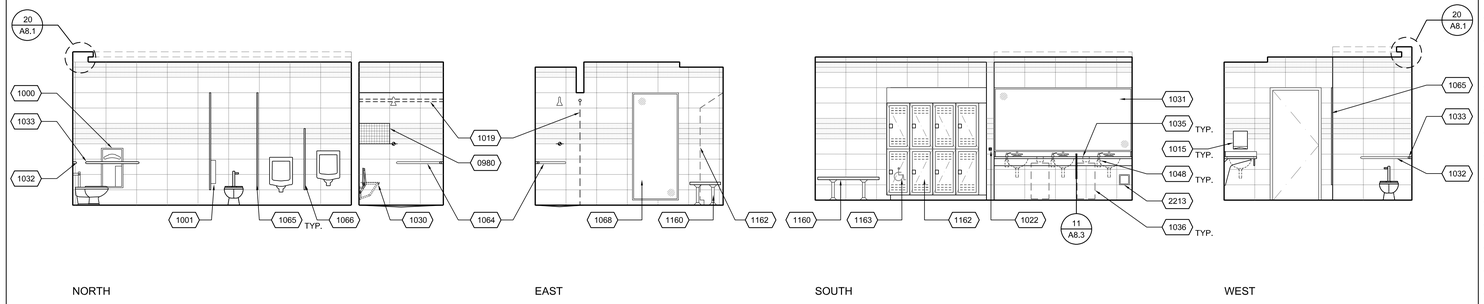
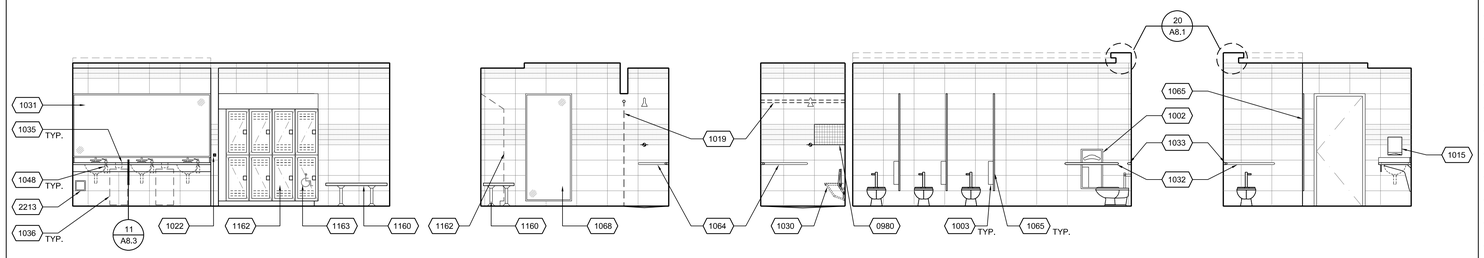
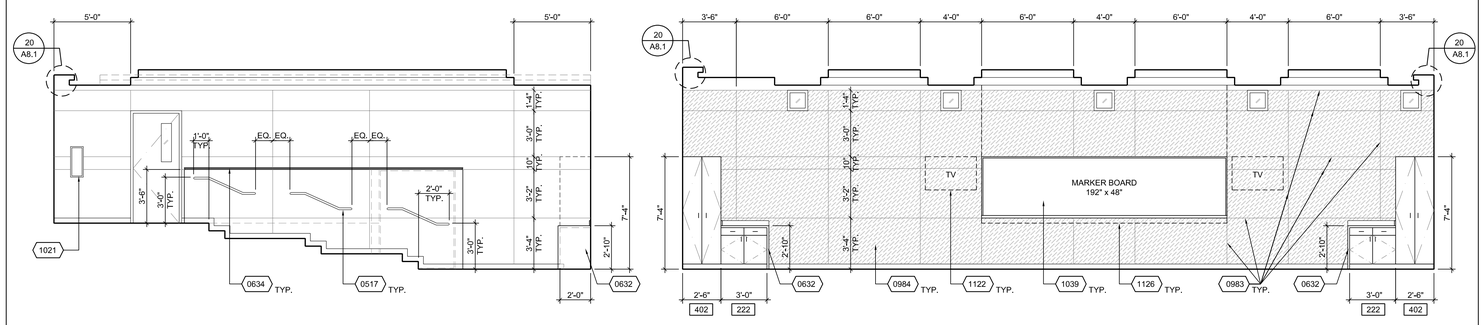


21 ROOM 108/109 - MEN'S RESTROOM, LOCKER ROOM, AND SHOWER — 1/4" = 1'-0" — 5



22 ROOM 111/112 - WOMEN'S RESTROOM, LOCKER ROOM, AND SHOWER — 1/4" = 1'-0" — 6



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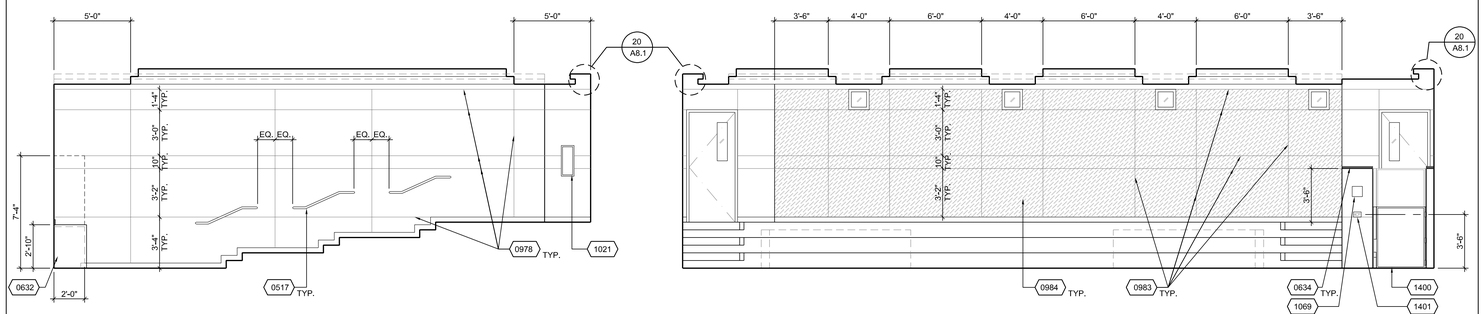

24 ROOM 114 - TRAINING ROOM — 1/4" = 1'-0" — 8

NOTES:

1. FOR TYPICAL WALL PATTERN, SEE 7/A8.2
2. FOR CASEWORK SCHEDULE, SEE 2/A8.3
3. FOR CASEWORK ANCHORAGE DETAIL, SEE 4/A8.3
4. FOR CASEWORK FACE PANEL DETAIL, SEE 9/A8.3
5. FOR COUNTERTOP DETAILS, SEE 10/A8.3
6. FOR LAVATORY COUNTERTOP, SEE 11/A8.3
7. FOR UNDERCABINET LIGHT FIXTURE, SEE 12/A8.3
8. FOR FIXTURE HEIGHT SCHEDULE, SEE 2/A8.4
9. FOR TOILET ROOM ACCESSORIES, SEE 4/A8.4

REFERENCE NOTES — 4

0517	HANDRAIL, SEE 17/A8.4
0632	HIDE TRACK BEHIND PLASTIC LAMINATE TRIM PIECE
0634	PONY WALL, SEE 11 & 12/A8.4
0978	GYPSUM BOARD REVEAL, SEE 8/A8.4
0980	SHOWER NICHE, SEE 6/A8.2
0983	PLAM REVEAL, SEE 7/A8.4
0984	PLAM PANELS
1000	RECESSED SEAT COVER/TOILET TISSUE DISPENSER
1001	SURFACE MNTD. SEAT COVER/TOILET TISSUE DISPENSER
1002	REC. SEAT COVER/TOILET TISSUE DISPENSER & NAPKIN DISPOSAL
1003	SURF. MNTD. SEAT COVER/TOILET TISSUE DISP. & NAPKIN DISP.
1015	RECESSED PAPER TOWEL DISPENSER
1019	SHOWER CURTAIN, ROD AND HOOKS, WIDTH TO MATCH OPENING
1021	FIRE EXTINGUISHER IN RECESSED CABINET, SEE 6/A8.4
1022	ROBE HOOK
1030	ACCESSIBLE FOLDING SHOWER SEAT
1031	LRG. MIRROR W/ STAINLESS STEEL FRAME SIZED TO COUNTER WIDTH
1032	36" LONG GRAB BAR, COORDINATE WITH FLUSH VALVE, SEE 5/A8.4
1033	42" LONG GRAB BAR, COORDINATE WITH FLUSH VALVE, SEE 5/A8.4
1034	MIRROR WITH STAINLESS STEEL FRAME
1035	COUNTERTOP-MOUNTED CIRCULAR WASTE CHUTE
1036	FLOOR-STANDING WASTE RECEPTACLE
1039	MARKER BOARD, SEE 12/A8.2
1048	COUNTER MNTD. SOAP DISPENSER
1064	24"X36" SHOWER COMPARTMENT BARS, SEE 5/A8.4
1065	SS TOILET PARTITION, SEE 9/A8.4, TYP.
1066	SS URINAL SCREEN, SEE 9/A8.4
1068	TALL MIRROR WITH STAINLESS STEEL FRAME
1069	WHEEL CHAIR LIFT SIGN SIGN, SEE 18/A8.5
1122	TV BRACKET & MEDIA BOX, SEE 11/A8.2, VERIFY FINAL LOCATION
1126	CEILING RECESSED MOTORIZED PROJECTION SCREEN, SEE 18/A8.1
1160	ACCESSIBLE LOCKER ROOM BENCH
1162	PERSONNEL LOCKERS, 2-TIER, TYP.
1163	ACCESIBLE PERSONNEL LOCKER
1400	WHEEL CHAIR LIFT, SEE 15/A8.4
1401	CALL/ SEND CONTROL
2213	HOSE BIBB, SEE PLUMBING DRAWINGS

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INTERIOR ELEVATIONS

DRAWING NUMBER: A7.2

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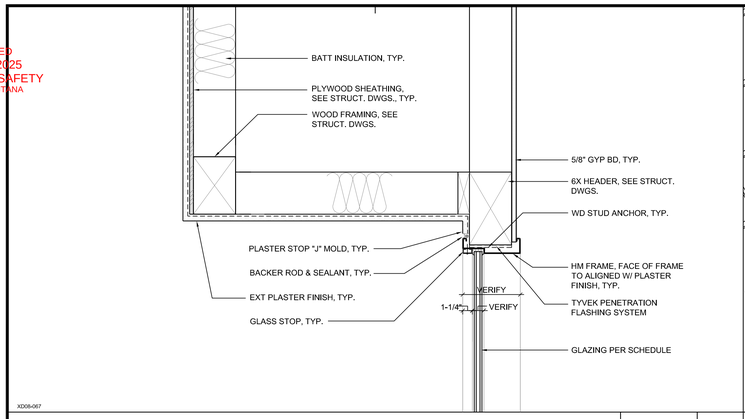
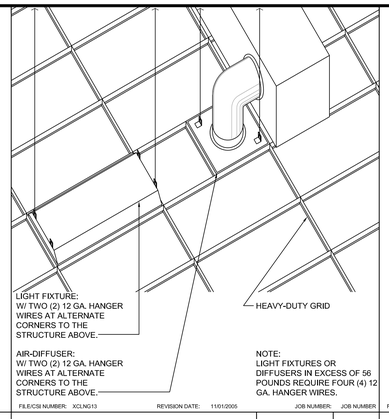
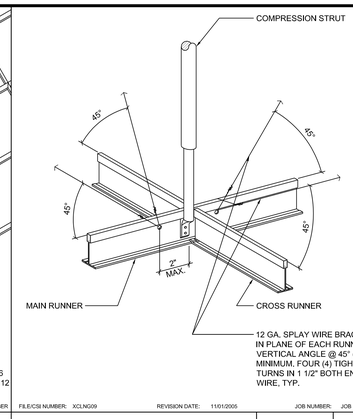


WINDOW / SOFFIT CONDITION — 1-1/2"=1'-0" — 17



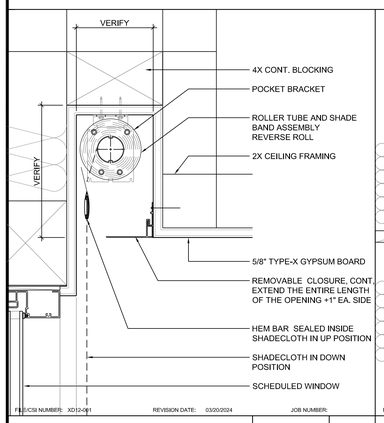
FILE/CSI NUMBER: XCLNG13 REVISION DATE: 11/01/2005 JOB NUMBER: JOB NUMBER

FIXTURE BRACING — 1/2"=1'-0" — 13



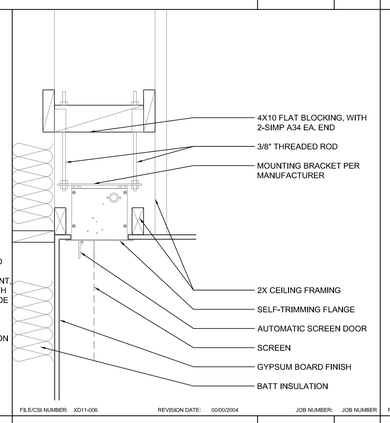
FILE/CSI NUMBER: XCLNG09 REVISION DATE: 11/01/2005 JOB NUMBER: JOB NUMBER

SPLAY WIRE BRACING — 3"=1'-0" — 9



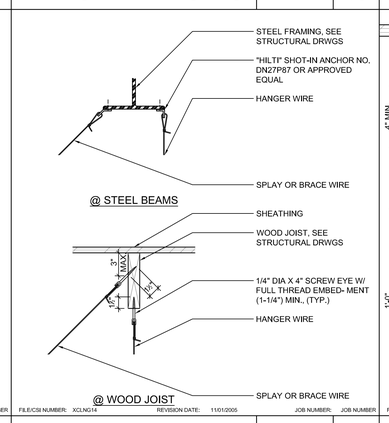
FILE/CSI NUMBER: XD12-061 REVISION DATE: 03/20/2024 JOB NUMBER:

SHADE POCKET AT GYP BD CEILING — 3"=1'-0" — 22



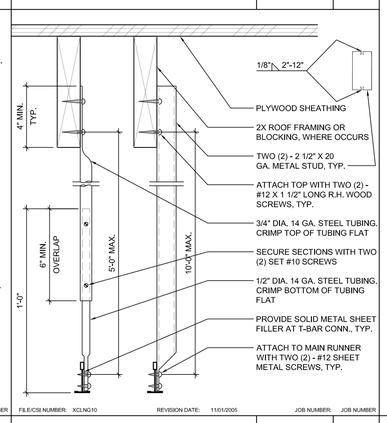
FILE/CSI NUMBER: XD11-006 REVISION DATE: 00/00/2004 JOB NUMBER: JOB NUMBER

RECESSED PROJECTION SCREEN — 1 1/2"=1'-0" — 18



FILE/CSI NUMBER: XCLNG14 REVISION DATE: 11/01/2005 JOB NUMBER: JOB NUMBER

HANGER / SPLAY WIRE — 1 1/2"=1'-0" — 14



FILE/CSI NUMBER: XCLNG10 REVISION DATE: 11/01/2005 JOB NUMBER: JOB NUMBER

COMPRESSION STRUT — 3"=1'-0" — 10

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILINGS.

1. 12 GA. (MIN.) hanger wires may be used for up to and including 4 ft. x 4 ft. grid spacing along main runners.
2. Provide 12 ga. hanger wires at the ends of all main and cross runners within 8" from the support or within 1/4 of the length of the end tee, whichever is least, for the perimeter of the ceiling area.
3. Provide trapeze or other supplementary support members at obstructions to main hanger spacings. Provide additional hangers, struts or braces as required at all ceiling breaks, soffits, or discontinuous areas. Hanger wires that are more than 1 in 6 out of plumb are to have counter-sloping wires.
4. Ceiling grid members may be attached to not more than two adjacent walls. Ceiling grid members should be at least 1/2 inch free of other walls. If walls run diagonally to ceiling grid system runners, one end of main and cross runner should be free and a minimum of 1/2 inch clear of wall.
5. At the perimeter of the ceilling area where main or cross runners are not connected to the adjacent wall, provide interconnection between runners at the free end to prevent lateral spreading. A metal strut or a 16 ga. wire with a positive mechanical connection to the runner may be used. Where the perpendicular distance from the wall to the first parallel runner is 12" or less, this interlock is not required.
6. Provide sets of four 12 ga. splayed bracing wires oriented 90 degrees from each other at not more than 8 feet by 12 feet on center.

   Provide bracing wires at locations not more than 6 feet from each perimeter wall and at the edge of vertical ceilling offsets.

   The slope of these wires should not exceed 45 degrees from the plane of the ceiling and should be taut without causing the ceiling to lift. Splices in bracing wires are not to be permitted without special Building Department approval.
7. Fasten hanger wires with not less than 3 tight turns. Fasten bracing wires with 4 tight turns. Make all tight turns within a distance of 1-1/2 inches. Hanger or bracing wire anchors to the structure should be installed in such a manner that the direction of the wire aligns as closely as possible with the direction of the forces acting on the wire.

   (Note: Wire turns made by machine where both strands have been deformed or bent in wrapping can waive the 1 1/2" requirement, but the number of turns should be maintained, and be as tight as possible.)
8. Separate all ceilling hangling and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc. It is acceptable to attach lightweight items, such as single electrical conduit not exceeding 3/4" nominal diameter, to hanger wires using connectors acceptable to Building Department.

   HVAC ductwork, electrical distribution, telephone services, computer cable distribution, and other services normally found in a ceilling span, shall be independently supported and appropriately braced to eliminate any lateral force on the ceilling membrane or bracing elements.
9. When drilled-in concrete anchors or shot-in anchors are used in reinforced concrete for hanger wires, 1 out of 10 must be field tested for 200 pounds of tension. When drilled-in concrete anchors are used for bracing wires, 1 out of 2 must be field tested for 440 pounds of tension. Shot-in anchors in concrete are not permitted for bracing wires. If any shot-in or drilled-in anchor fails, all adjacent anchors must be tested. Drilled-in or slot-in anchors must be tested. Drilled-in or slot-in anchors require special Building Department approval when used in prestressed concrete.
10. Attach all light fixtures to the ceilling grid runners to resist a hortzontal force equal to the weight of the fixtures.

    All recessed lighting fixtures having a nominal end dimension of 24 inches or greater, shall be positively attached to the ceilling grid runner(s) at the end of the fixture with two #8 self-tapping Tek screws. Each screw shall be located within 3" of the side of the fixture and attached through the bulb of the ceilling grid runner(s). Light fixtures having less than a nominal 24" end dimension shall be attached with one #8 self tapping Tek screw at the center of each end of the fixture, attached to the bulb of the ceilling grid runner(s). All attachments shall be capable of laterally supporting the weight of the fixture. All fixtures, regardless of weight or size, shall have interlocking ceilling grid runner(s) on all 4 sides of the fixture.
11. Ceilling mounted air terminals or services shall be positively attached to the ceilling suspension main runners or to cross runners with the same carrying capacity as the main runner.

    Air terminals with a nominal dimension of 24" or less shall be positively attached to the ceilling grid runner(s) on at least two opposing sides with one #8 self tapping Tek screw on each side. Each screw shall be located in the center of the air terminal and shall be attached through the bulb of the ceilling grid runner(s). Air terminals in excess of 24" in length shall be attached with two #8 self tapping Tek screws on each end of diffuser attached to the bulb of the ceilling grid runner(s). All attachments shall be capable of laterally supporting the weight of the air terminal. All air terminals regardless of weight or size shall have interlocking ceilling grid runner(s) on all 4 sides of the air terminal.
12. Flush or recessed light fixtures and air terminals or services weighing less than 56 pounds may be supported directly on the runners of a heavy duty grid system but, in addition, they must have a minimum of two 12 ga. slack safety wires attached to the fixture at diagonal corners and anchored to the structure above. All 4 ft. x 4 ft. light fixtures must have slack safety wires at each corner.

    All flush or recessed light fixtures and air terminals or services weighing 56 pounds or more must be independently supported by not less than 4 taut 12 ga. wires each attached to the fixture and to the structure above regardless of the type of ceilling grid system used.

    The 4 taut 12 ga. wires including their attachment to the structure above may be capable of supporting four times the weight of the unit.
13. Penetrations through ceilling for sprinkler heads and other similar devices that are not integrally tied to the ceilling system shall have a 2" oversized ring or sleeve through the ceilling tile to allow 1" movement in all horizontal directions.
14. Support surface mounted light fixtures by at least two positive devices which surround the ceilling runner and which are each supported from the structure above by a 12 ga. wire. Spring clips or clamps that connect only to the runner are not acceptable.

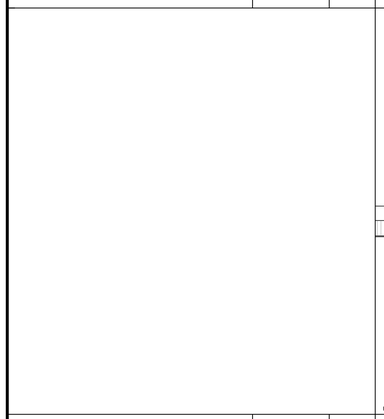
    Provide additional supports when light fixtures are 8 feet or longer.
15. Support pendant mounted light fixtures directly from the structure above with hanger wires or cables passing through each pendant hanger and capable of supporting 4 times the weight of the fixture. Special details are necessary for this condition at the ceilling grid.
16. Classification of the ceilling grid is heavy duty. Components shall comply with the following Schedule:

MANUFACTURER	MAIN	CROSS	ICC-ES REPORT NO.
ARMSTRONG	7301	XL7341 (1)	ESR-1308
CHICAGO METALLIC	200	1274 (2)	ER-2631
DONN CORPORATION	DX26	DX424 (3)	ESR-1222
CERTAINTEED	C12-12-20	CS4-12-12 (4)	ESR-3336

Footnotes:
(1) FOR 2' X 2' GRID USE XL7328
(2) FOR 2' X 2' GRID USE 1202
(3) FOR 2' X 2' GRID USE DX216
(4) FOR 2' X 2' GRID USE CS2-12-12

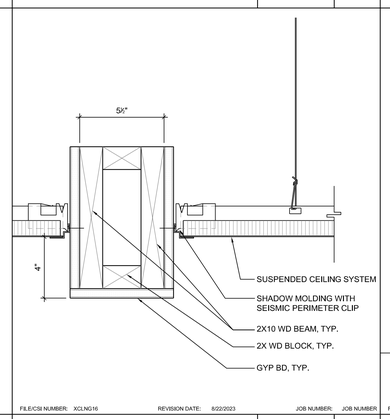
17. Anchors for wall angles:
    A. At wood stud wall: 8D common nail @ 16" O.C.
    B. At metal stud wall: 1 1/8" type "S" Bugle Head drywall screw at 16" O.C.
    C. At masonry wall: 1/4" dia. x 1 3/4" long Tapcon anchor screw @ 16" O.C. ICC/ES No. 1671
18. Suspended acoustical ceilling system shall be installed in accordance with the provisions of ASTM C635 and ASTM C636.
19. Suspended acoustical ceilling system shall comply with ASCE 7-05 Section 13.5.6.
20. Suspended acoustical ceilling system shall be subject to the special inspection requirements of Section 11.A.1.3.0 of ASCE Standard.

SUSPENDED CEILING NOTES — 2



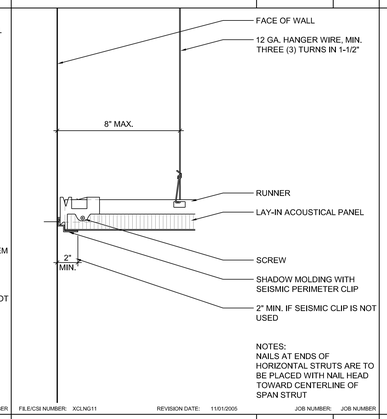
FILE/CSI NUMBER: XCLNG16 REVISION DATE: 8/22/2023 JOB NUMBER: JOB NUMBER

WD. BEAMS @ CEILING CONDITION — 3"=1'-0" — 19



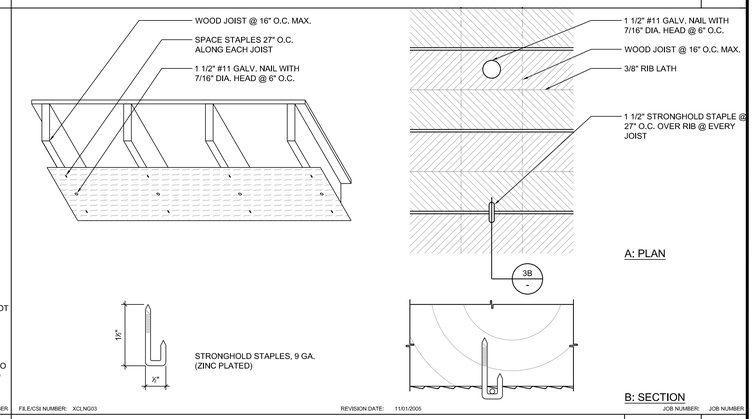
FILE/CSI NUMBER: XCLNG15 REVISION DATE: 11/01/2005 JOB NUMBER: JOB NUMBER

CEILING TRANSITION — 3"=1'-0" — 15



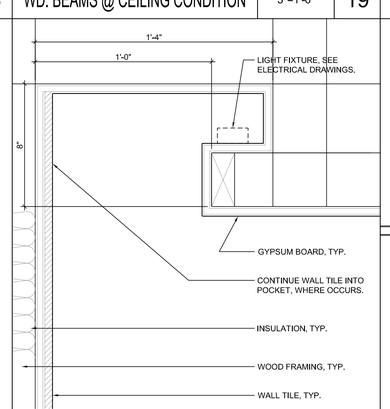
FILE/CSI NUMBER: XCLNG11 REVISION DATE: 11/01/2005 JOB NUMBER: JOB NUMBER

CEILING PERIMETER — 3"=1'-0" — 11



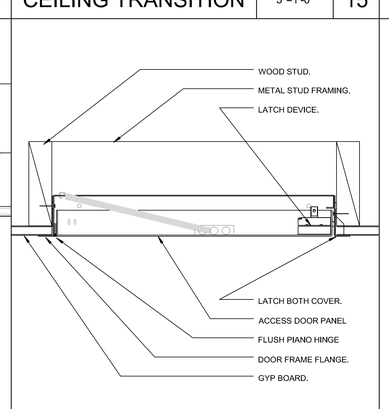
FILE/CSI NUMBER: XCLNG03 REVISION DATE: 11/01/2005 JOB NUMBER: JOB NUMBER

HORIZONTAL LATH ATTACHMENT — N.T.S. — 3



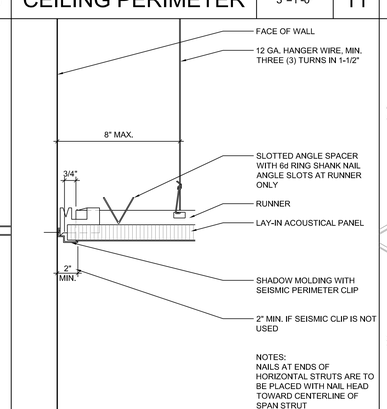
FILE/CSI NUMBER: XD09-014 REVISION DATE: 02/27/2024 JOB NUMBER: 1210800

COVE LIGHTING @ CEILING — 3"=1'-0" — 20



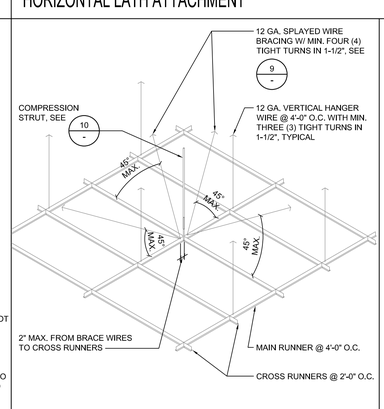
FILE/CSI NUMBER: XD05-020 REVISION DATE: 00/00/2004 JOB NUMBER: JOB NUMBER

TYP. ACCESS PANEL — 3"=1'-0" — 16



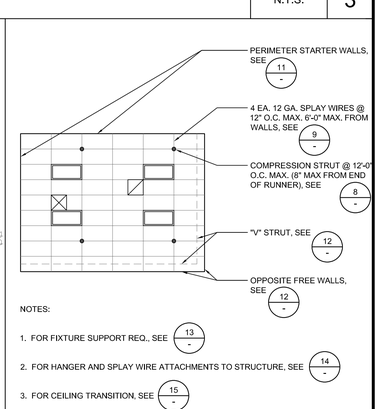
FILE/CSI NUMBER: XCLNG12 REVISION DATE: 11/01/2005 JOB NUMBER: JOB NUMBER

CEILING PERIMETER — 3"=1'-0" — 12



FILE/CSI NUMBER: XCLNG08 REVISION DATE: 11/01/2005 JOB NUMBER: JOB NUMBER

GRID LAYOUT — 3/8"=1'-0" — 8



FILE/CSI NUMBER: XCLNG04 REVISION DATE: 12/26/2020 JOB NUMBER: JOB NUMBER

CEILING DETAIL — 1/8"=1'-0" — 4

BID SET_20250818

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLE FREEDHAM
C-19664
Ex.Dt: 03/31/27
STATE OF CALIFORNIA

CONSULTANT

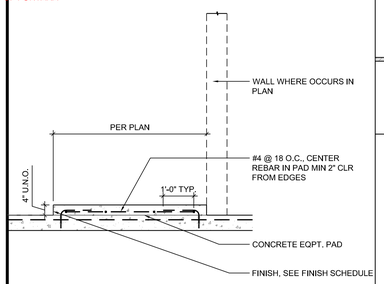
NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN: JM | CHECKED: KN
DATE: 05/21/2025 | SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

SUSPENDED CEILING NOTES & DETAILS

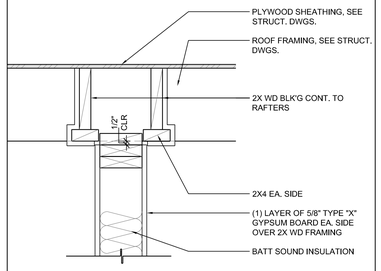
DRAWING NUMBER: A8.1

REVIEWED
Aug 25, 2025
BUILDING & SAFETY
CITY OF FONTANA



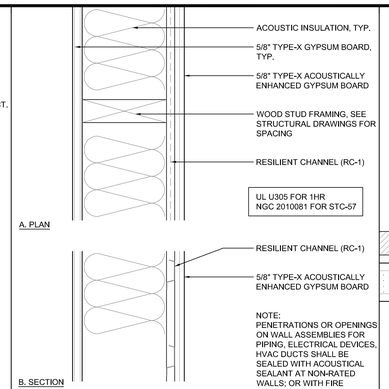
FILE/CSI NUMBER: XD02-044_A REVISION DATE: 05/21/2025 JOB NUMBER:

TYPICAL EQUIPMENT PAD | 1/2"=1'-0" | 21



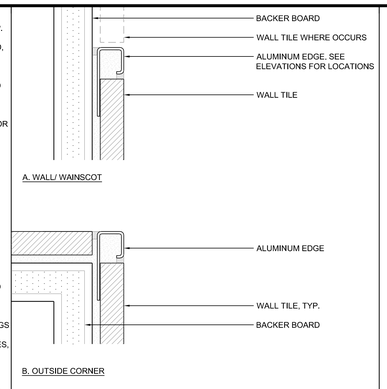
FILE/CSI NUMBER: XD09-053 REVISION DATE: 07/01/2008 JOB NUMBER: JOB NUMBER

WALL HEAD - NON BEARING | 1 1/2"=1'-0" | 17



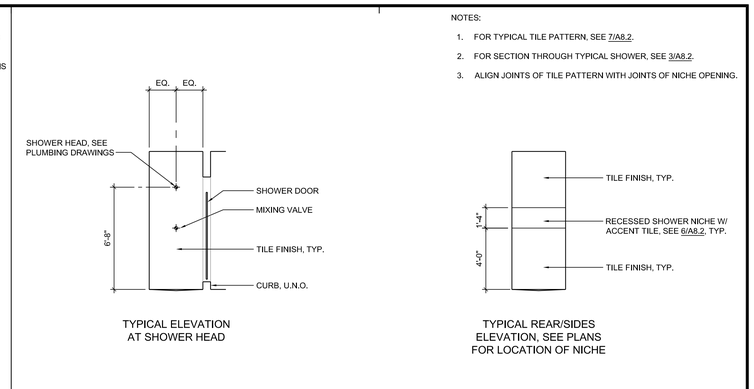
FILE/CSI NUMBER: XD06-052 REVISION DATE: 04/16/2020 JOB NUMBER: JOB NUMBER

1HR, STC-57 SOUND WALL | 3"=1'-0" | 13



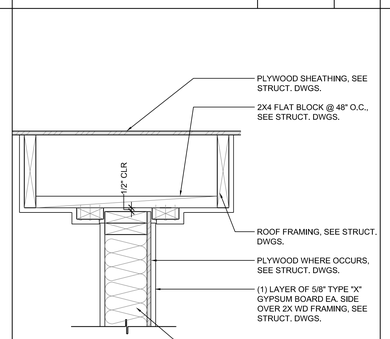
FILE/CSI NUMBER: XD09-065 REVISION DATE: 08/05/2013 JOB NUMBER: 1113400

TILE WALL AND OUTSIDE CORNER | FULL | 9

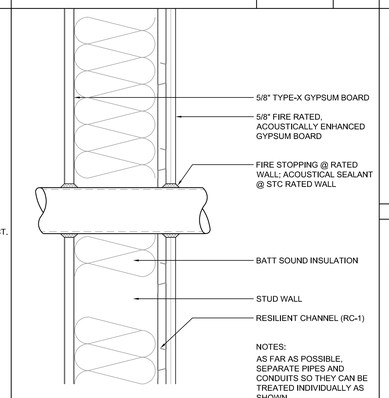


FILE/CSI NUMBER: XD10-007 REVISION DATE: 04/16/2020 JOB NUMBER: JOB NUMBER

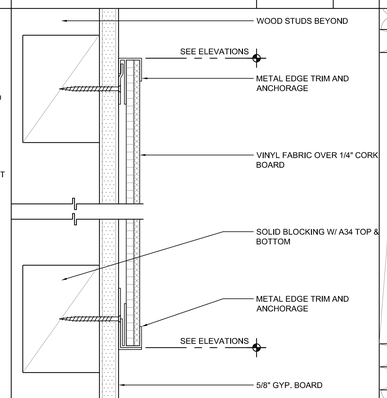
SHOWER ELEVATIONS | 1/4"=1'-0" | 1



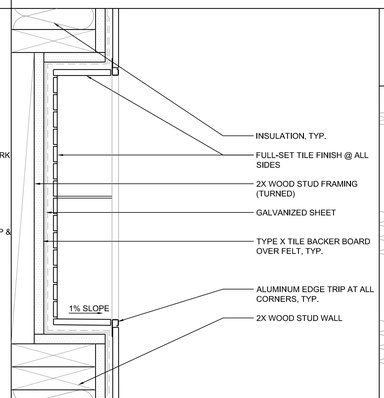
FILE/CSI NUMBER: XD09-056 REVISION DATE: 07/01/2008 JOB NUMBER: JOB NUMBER



FILE/CSI NUMBER: XD07-065_15 REVISION DATE: 04/16/2020 JOB NUMBER: JOB NUMBER

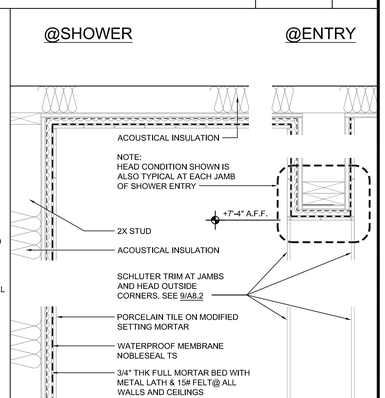


FILE/CSI NUMBER: XD10-010 REVISION DATE: 04/16/2020 JOB NUMBER: JOB NUMBER



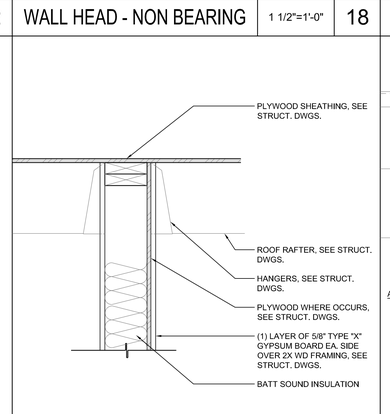
FILE/CSI NUMBER: XD09-005 REVISION DATE: 02/01/2011 JOB NUMBER: 09200

BUILT-IN SHOWER NICHE | 3"=1'-0" | 6

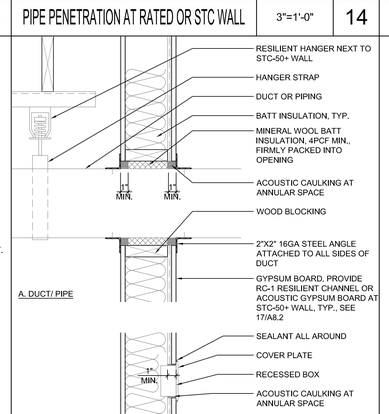


FILE/CSI NUMBER: XD10-008 (TCNA B411-13) REVISION DATE: 04/01/2005 JOB NUMBER: JOB NUMBER

SHOWER SECTION | 1 1/2"=1'-0" | 3

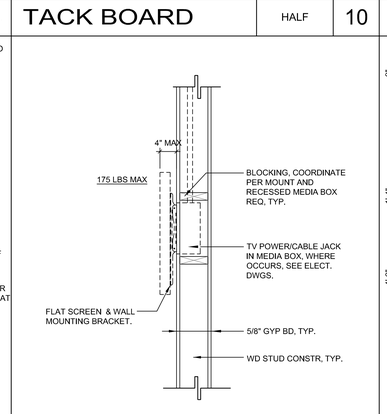


FILE/CSI NUMBER: XD09-057 REVISION DATE: 07/01/2008 JOB NUMBER: JOB NUMBER



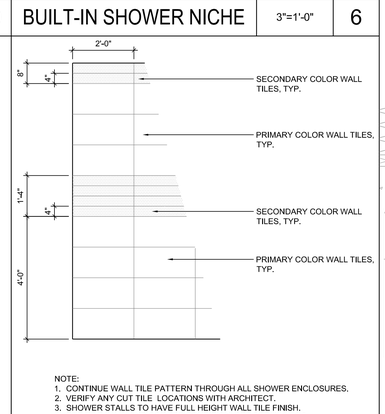
FILE/CSI NUMBER: XD09-067 REVISION DATE: 00/00/2004 JOB NUMBER: JOB NUMBER

SOUND CONTROL PENETRATIONS | 1 1/2"=1'-0" | 15



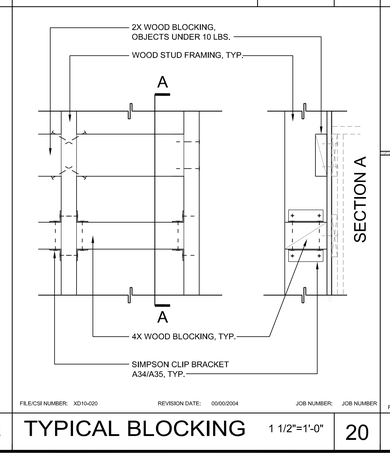
FILE/CSI NUMBER: XD10-019 REVISION DATE: 04/16/2020 JOB NUMBER: JOB NUMBER

BLOCKING FOR TV BRACKET | 1"=1'-0" | 11

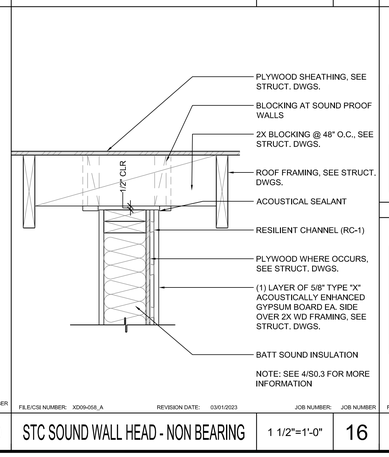


FILE/CSI NUMBER: XD09-004 REVISION DATE: 04/01/2005 JOB NUMBER: UPDATE

TYPICAL WALL TILE | 1/2"=1'-0" | 7

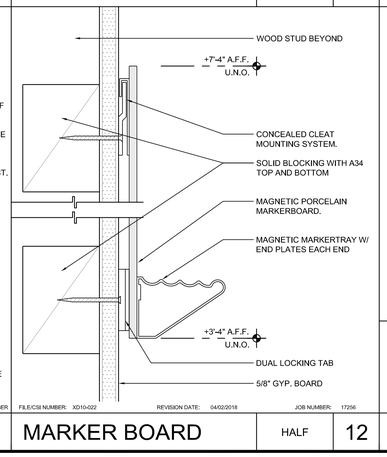


FILE/CSI NUMBER: XD10-020 REVISION DATE: 00/00/2004 JOB NUMBER: JOB NUMBER



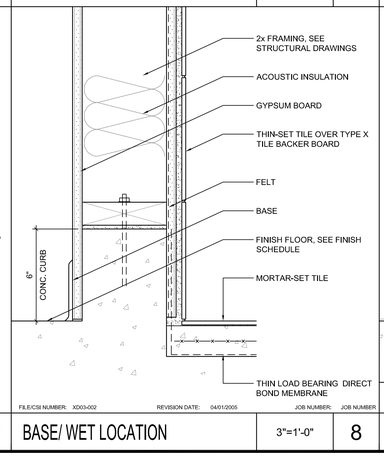
FILE/CSI NUMBER: XD09-058_A REVISION DATE: 03/01/2023 JOB NUMBER: JOB NUMBER

STC SOUND WALL HEAD - NON BEARING | 1 1/2"=1'-0" | 16



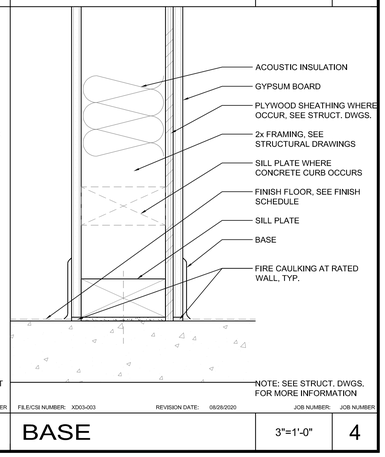
FILE/CSI NUMBER: XD10-022 REVISION DATE: 04/02/2018 JOB NUMBER: 17256

MARKER BOARD | HALF | 12



FILE/CSI NUMBER: XD03-002 REVISION DATE: 04/01/2005 JOB NUMBER: JOB NUMBER

BASE/ WET LOCATION | 3"=1'-0" | 8



FILE/CSI NUMBER: XD03-003 REVISION DATE: 08/26/2020 JOB NUMBER: JOB NUMBER

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

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLY KEDHAM
C-19664
Exp. 03/31/27
STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
1			REVISIONS

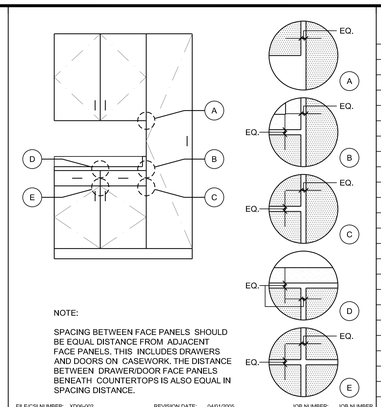
DRAWN: JM | CHECKED: KN
DATE: 05/21/2025 | SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

INTERIOR DETAILS

DRAWING NUMBER: A8.2

BID SET_20250818

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

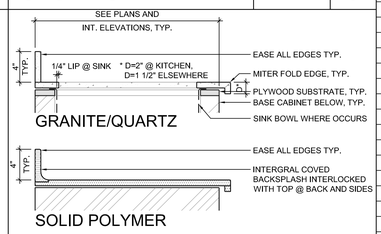


NOTE:

SPACING BETWEEN FACE PANELS SHOULD BE EQUAL DISTANCE FROM ADJACENT FACE PANELS, THIS INCLUDES DRAWERS AND DOORS ON CASEWORK. THE DISTANCE BETWEEN DRAWER/DOOR FACE PANELS BENEATH COUNTERTOPS IS ALSO EQUAL IN SPACING DISTANCE.

FILE/CSI NUMBER: XD06-002 REVISION DATE: 04/01/2005 JOB NUMBER: JOB NUMBER

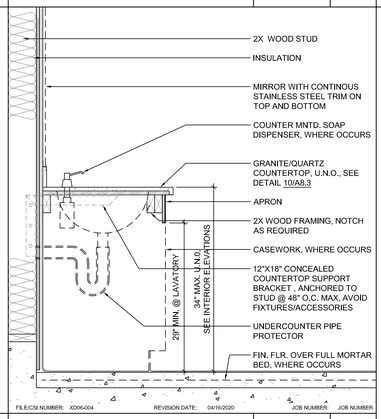
		21			17			13	CASEWORK	N.T.S.	9



FILE/CSI NUMBER: XD06-003 REVISION DATE: 09/10/2020 JOB NUMBER: JOB NUMBER

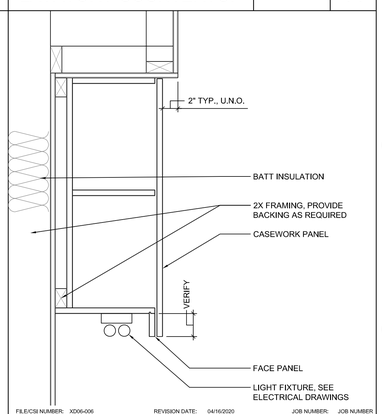
NUM	ROOM DESCRIPTION	CASEWORK FINISH	COUNTERTOP & SPLASH	LOCK	REMARKS
101	LOBBY	-	-	-	-
102	VESTIBULE	PLASTIC LAMINATE	SOLID POLYMER	KEY TYPE	-
103	ACCESSIBLE RESTROOM	-	-	-	-
104	CUSTODIAL/ STORAGE	-	-	-	-
105	HALLWAY	-	-	-	-
106	TRAINING OFFICE 1	PLASTIC LAMINATE	SOLID POLYMER	KEY TYPE	-
107	TRAINING OFFICE 2	PLASTIC LAMINATE	SOLID POLYMER	KEY TYPE	-
108	MEN'S RESTROOM	SOLID COMPOSITE	ENGINEERED QUARTZ	-	-
109	MEN'S LOCKERS/ SHOWER	-	-	-	-
110	UNISEX BATHROOM	-	-	-	-
111	WOMEN'S RESTROOM	SOLID COMPOSITE	ENGINEERED QUARTZ	-	-
112	WOMEN'S LOCKERS/ SHOWER	-	-	-	-
113	UNISEX BATHROOM	-	-	-	-
114	TRAINING ROOM	PLASTIC LAMINATE	SOLID POLYMER	KEY TYPE	-
115	TRAINING STORAGE	-	-	-	-
116	ELECTRICAL ROOM	-	-	-	-
117	FIRE RISER ROOM	-	-	-	-

		22			18			14	COUNTERTOPS	1 1/2"=1'-0"	10



FILE/CSI NUMBER: XD06-004 REVISION DATE: 04/16/2020 JOB NUMBER: JOB NUMBER

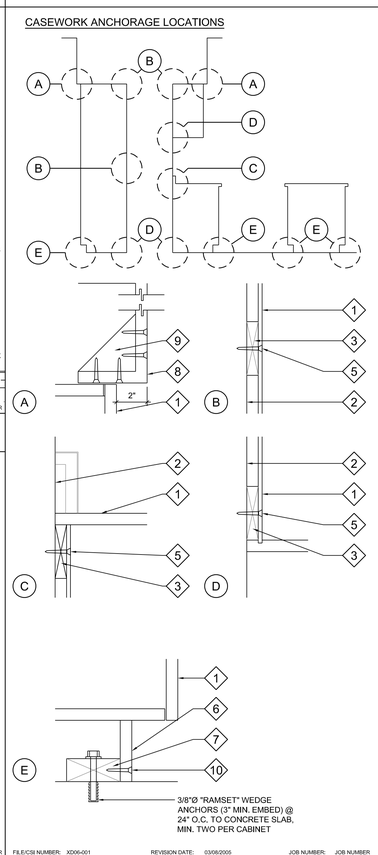
		23			19			15	LAVATORY COUNTERTOP	1"=1'-0"	11



FILE/CSI NUMBER: XD06-006 REVISION DATE: 04/16/2020 JOB NUMBER: JOB NUMBER

		24			20			16	CASEWORK LIGHT FIXTURE	1 1/2"=1'-0"	12

CASEWORK ANCHORAGE LOCATIONS



FILE/CSI NUMBER: XD06-001 REVISION DATE: 03/08/2005 JOB NUMBER: JOB NUMBER

		25			21			17	CASEWORK MATERIALS SCHEDULE		2

GENERAL NOTES:

1. ALL CASEWORK SHOWN ON SCHEDULE ARE NOT NECESSARILY USED. ONLY THOSE CASEWORK ITEMS CALLED OUT ON INTERIOR ELEVATIONS AND/OR FLOOR PLANS SHALL BE USED.
2. CASEWORK NUMBERS SHOWN ON SCHEDULE ARE THOSE OF THE WOODWORK INSTITUTE (WI) DESIGN NUMBERING SYSTEM.
3. ALL CABINET DIMENSIONS INDICATED IN SCHEDULE ARE NOMINAL OUTSIDE DIMENSIONS.
4. ALL DIMENSIONS NOTED ON SCHEDULE ARE IN INCHES.
5. FILLER STRIPS ARE REQUIRED AT ENDS OF CABINETS WHERE CABINETS ARE ADJACENT TO WALLS.
6. ALL FILLER STRIPS AT ALL TALL AND WALL CABINETS TO HAVE TOP AND BOTTOM RETURNS.
7. HEIGHT DIMENSIONS OF BASE CABINETS INCLUDE FINISHED TOP THICKNESS OF 1 1/2" & SUBBASE HEIGHT OF 4", U.N.O.
8. HEIGHT DIMESIONS OF APRONS INCLUDE FINISHED TOP THICKNESS OF 1 1/2", U.N.O.
9. HEIGHT DIMENSIONS OF TOPS WITH APRONS FROM FINISHED FLOOR LINE SHALL MATCH HEIGHT LINE SHALL MATCH HEIGHT OF ADJACENT BASE CABINETS U.N.O.
10. ALL PLAN DIMENSIONS OF CASEWORK ARE CABINET DIMENSIONS ONLY & DO NOT INCLUDE TOPS.
11. PROVIDE FINISHED END PANELS FOR SUPPORT OF COUNTERTOPS AT UNDER- COUNTER EQUIPMENTOR KNEE SPACES WHERE THERE IS NO ADJACENT WALL OR CABINET THAT CAN BE USED FOR SUPPORT.
12. FINISH ALL EXPOSED PORTIONS OF CASEWORK AND COUNTERTOPS.
13. ALL UNITS INCLUDING OPEN UNITS SHALL HAVE CASEWORK MANUFACTURER'S STANDARD CABINET LINER, U.N.O.
14. ALL TOE SPACES SHALL BE 4" IN HEIGHT AND 3" IN DEPTH AND SHALL RETURN TO WALL WHERE ENDS OF CABINETS ARE EXPOSED, U.N.O.
15. ALL SHELVING SHALL BE ADJUSTABLE, U.N.O.
16. PROVIDE DUST CLOSURE PANELS TO CEILING OR DROPPED SOFFIT AS INDICATED ON ELEVATIONS OR PLAN.
17. ALL COUNTERTOPS SHALL BE OF DEPTHS AS DETAILED AND SHALL BE OF MAXIMUM PRACTICAL LENGTHS REQUIRED TO CONFORM TO OVERALL BASE CABINET DIMENSIONS.
18. PROVIDE BACKSPLASH RETURN AT ENDS OF COUNTERTOPS WHERE ADJACENT TO WALL OR OTHER FULL HEIGHT CASEWORK.
19. ALL SINKS, SINK TRIM & ELECTRICAL ITEMS SHALL BE FURNISHED BY OTHER THAN THE CASEWORK MANUFACTURER, U.N.O.
20. ALL COUNTERTOPS SHALL BE ENGINEERED QUARTZ, U.N.O.

CASEWORK ANCHORAGE NOTES

1. CASEWORK (FRONT) (BACK) (TOP) (BOTTOM)
2. FACE OF WALL
3. 1 x 4 CONTINUOUS WOOD CLEAT
4. 1 x 2 CONTINUOUS WOOD CLEAT
5. ANCHORAGE TYPE VARIES BASE UPON WALL CONSTRUCTION AS FOLLOWS:

   WOOD STUD FRAMING - #10 x 3 1/2" FHWS @ 16" O.C., 2" MAXIMUM FROM EACH END. MIN. 2 PER CABINET W/ 3 X 4 WOOD BLOCKING WITH A34 TOP AND BOTTOM,
   OR
   METAL STUD FRAMING - #8 x 2 1/2" FHMS @ 16" O.C., 2" MAXIMUM FROM EACH END. MIN. 2 PER CABINET W/ CONT 16 GA x 4" STEEL PLATE x CABINET LENGTH
   OR
   MASONRY OR CONCRETE - 3/8"Ø "RAMSET" DYNABOLT SLEEVE ANCHORS (2" MIN EMBEDMENT) @ 24"OC, MINIMUM 2 PER CABINET
6. 3/4" PARTICLE BOARD SKIRT
7. 2 x 4 PLATE
8. FASCIA
9. 2 x 6 GUSSET @ 48" O.C. - #10 x 2" LONG FHWS (6" FROM EACH END), SET 2x IN GLUE WHERE FASTENERS ARE PARALLEL TO 2x GRAIN, NO EXPOSED SCREW HEADS
10. #10 x 3" FLAT HEAD WOOD SCREWS @ 24" OC

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLEY PENDHAM
C-11964
Ie.te 03/31/27
STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
1			REVISIONS

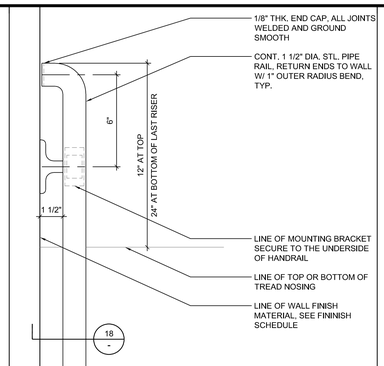
DRAWN: JM CHECKED: KN
DATE: 05/21/2025 SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

MILLWORK DETAILS & SCHEDULES

DRAWING NUMBER: A8.3

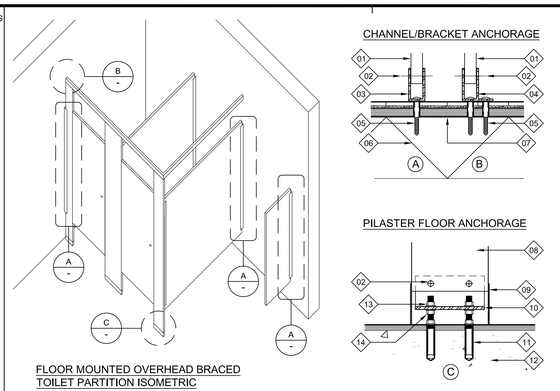
BID SET_20250818

REVIEWED
Aug 25, 2025
BUILDING & SAFETY
CITY OF FONTANA



FILE/CSI NUMBER: XD05-001 REVISION DATE: 02/01/2017 JOB NUMBER: 16104

		21	HANDRAIL	3"=1'-0"	17



FLOOR MOUNTED OVERHEAD BRACED TOILET PARTITION ISOMETRIC

CHANNEL/BRACKET ANCHORAGE

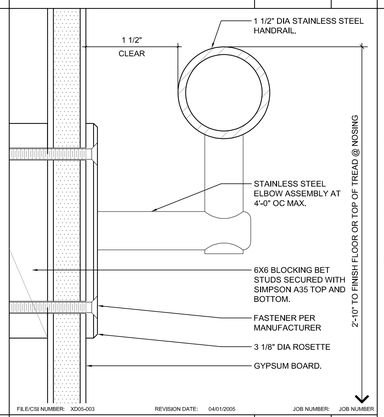
PILASTER FLOOR ANCHORAGE

KEYNOTE DESCRIPTION

01	3/4" STAINLESS STEEL PANELS, REF SPECS.
02	MECHANICAL FASTENER PER MFR REC, TYP.
03	CONT SS "U" CHANNEL, MECH FASTEN @ 12" OC TYP.
04	SS "F" BRACKET PER MFR REC, TYP.
05	VANDAL RESISTANT SS #14 x 2-1/2 WS/MS @ 12" OC, TYP.
06	REF WALL TYPES FOR WALL CONSTRUCTION, TYP.
07	BACKING PLT/ BLOCKING TO MATCH PANEL LENGTH, SEE 7/- TYP.
08	STAINLESS STEEL PILASTER TYP, REF SPECS.
09	SS SHOE COVER PER MFR, TYP.
10	MOUNTING/LEVELING BRACKET PER MFR, TYP.
11	3/8"Ø WEDGE ANCHOR SS, TYP.
12	MOUNTING/LEVELING BRACKET PER MFR, TYP.
13	LEVELING NUT PER MFR, TYP.
14	LOCKING NUT PER MFR, TYP.

FILE/CSI NUMBER: XD10-003 REVISION DATE: 12/5/2005 JOB NUMBER: JOB NUMBER

		22	HANDRAIL @ STUD WALL	FULL	18

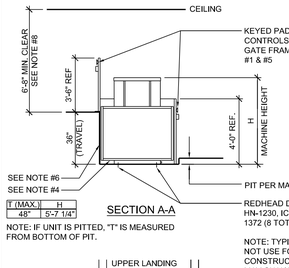


FILE/CSI NUMBER: XD05-003 REVISION DATE: 04/01/2005 JOB NUMBER: JOB NUMBER

		23			19

1) FIELD ELECTRICAL WIRING AND CONNECTIONS TO GATES, CALL/SEND CONTROLS, INTERLOCKS, AND MACHINE HOUSING TO BE INSTALLED BY OTHERS.
2) (O) J-BOX: 115 VOLTS, 20A, 60HZ SEPARATE CIRCUIT. ALL ELECTRICALS BY OTHERS PROVIDE DISCONNECT SWITCH.
3) ALL LIGHTING BY OTHERS. NOT LESS THAN FIVE (5) FOOT CANDLES TO CONTROL PANEL.
4) UNDERPANEL AUTOMATICALLY STOPS THE PLATFORM IF IT SHOULD ENCOUNTER AN OBSTRUCTION IN THE DOWNWARD TRAVEL.
5) KEYED CALL/SEND CONTROLS WITH PADDLE; LOCATED WITHIN GATE FRAMES. ALL WIRING BY OTHERS.
6) SMOOTH SOLID FRONT FASCIA; MUST BE PERPENDICULAR TO THE FLOOR AND SQUARE WITH WALLS. FASCIA BY OTHERS.
7) ALL GATES MUST BE ALIGNED WITH THE CENTERLINE OF THE PLATFORM
8) A MINIMUM OVERHEAD CLEARANCE OF 6 FEET 8 INCHES SHALL BE PROVIDED BETWEEN ANY POINT ON THE PLATFORM AND THE LOWEST OVERHEAD OBSTRUCTION DURING THE ENTIRE DISTANCE OF TRAVEL.
9) ANY ALTERATIONS TO THE EQUIPMENT WITHOUT THE WRITTENAUTHORIZATION BY THE CHENEY COMPANY WILL VOID ALL WARRANTIES.
10) SMOOTH SOLID BARRIERS BOTH SIDES OF GATE MINIMUM OF 42" HIGH, SUPPLIED BY OTHERS.

REF: — — — — ELECTRICAL ROUTING LINES.

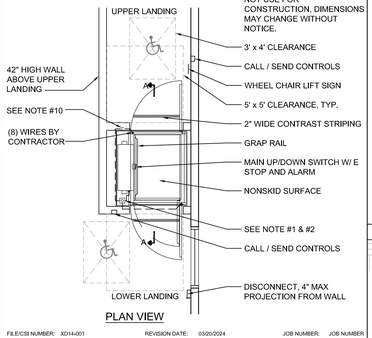


T (MAX.)	H
48"	5'-7 1/4"

NOTE: IF UNIT IS PITTED, "T" IS MEASURED FROM BOTTOM OF PIT.

SECTION A-A

NOTE: TYPICAL DRAWING. DO NOT USE FOR CONSTRUCTION, DIMENSIONS MAY CHANGE WITHOUT NOTICE.



PLAN VIEW

FILE/CSI NUMBER: XD14-001 REVISION DATE: 03/20/2024 JOB NUMBER: JOB NUMBER

		24			20

		25			21

		26			22

		27			23

| | |

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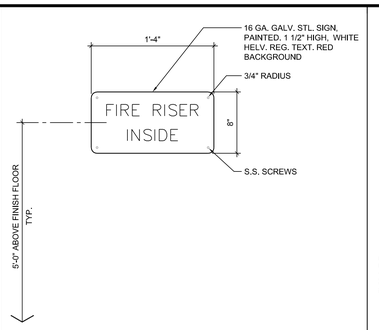
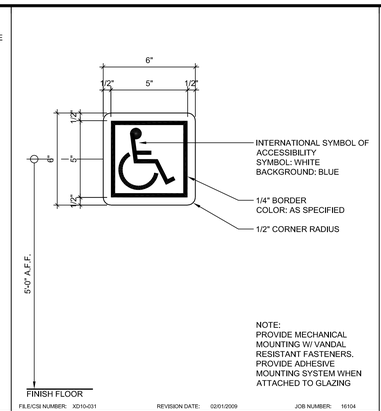
Aug 25, 2025
BUILDING & SAFETY
CITY OF FONTANA



FILE/CSI NUMBER: XD10-040 REVISION DATE: 03/12/2021 JOB NUMBER: 09200

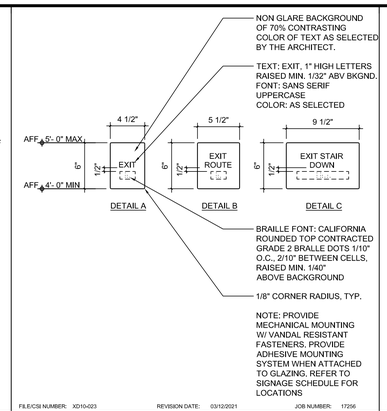
		21	FIRE RISER ROOM SIGNAGE	1 1/2"=1'-0"	17



NOTE:
PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING

FILE/CSI NUMBER: XD10-031 REVISION DATE: 02/01/2009 JOB NUMBER: 16104

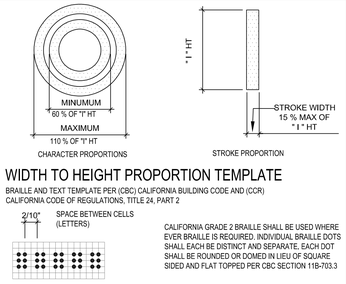
		13	ACCESSIBILITY SIGNAGE	3"=1'-0"	13



NOTE: PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS, PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING, REFER TO SIGNAGE SCHEDULE FOR LOCATIONS

FILE/CSI NUMBER: XD10-023 REVISION DATE: 03/12/2021 JOB NUMBER: 17256

		9	EXIT SIGNAGE	1 1/2"=1'-0"	9



WIDTH TO HEIGHT PROPORTION TEMPLATE

BRAILLE AND TEXT TEMPLATE PER (CBC) CALIFORNIA BUILDING CODE AND (CCR) CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2

CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHERE EVER BRAILLE IS REQUIRED. INDIVIDUAL BRAILLE DOTS SHALL EACH BE DISTINCT AND SEPARATE. EACH DOT SHALL BE ROUNDED OR DOMED IN LIEU OF SQUARE SIDED AND FLAT TOPPED PER CBC SECTION 11B-703.3

PROPORTIONS: CHARACTERS SHALL HAVE A FONT WHERE THE WIDTH OF THE UPPER CASE "O" AND THE THICKNESS OF THE UPPERCASE "I" ARE AS INDICATED ABOVE AND ARE PER CBC SECTION 11B-703.5.4.
TACTILE FONT: SHALL ALL BE UPPER CASE AND SHALL BE RAISED A MINIMUM OF 1/32".
COPY HT: SHALL BE 1" IN HEIGHT.
CHARACTER SPACING: MINIMUM OF 1/8"AND MAXIMUM OF 4 TIMES CHARACTER STROKE WIDTH. MEASURED BETWEEN CLOSETS POINTS OF ADJACENT LETTERS.
LINE SPACING: MINIMUM OF 135% AND MAXIMUM OF 170% OF THE UPPERCASE " I " HEIGHT MEASURED BASELINE TO BASELINE OF CHARACTERS.
TEXT SHALL BE NON-GLARE AND CONTRAST WITH BACKGROUND PER CBC 11B-703.5.1

FILE/CSI NUMBER: D1-17101 REVISION DATE: 04/17/2020 JOB NUMBER: JOB NUMBER

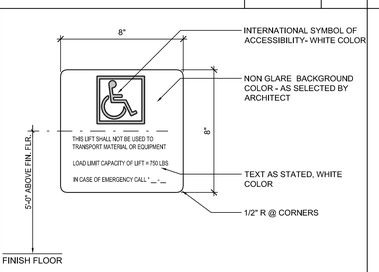
		FULL	SIGNAGE TEMPLATES	FULL	5

ITEM DESCRIPTION	DETAIL	LOCATION
FEMALE RESTROOM DOOR SYMBOL	6-	ALL FEMALE RESTROOM DOORS
MALE RESTROOM DOOR SYMBOL	10-	ALL MALE RESTROOM DOORS
UNISEX RESTROOM DOOR SYMBOL	14-	ALL SINGLE USE RESTROOM DOORS
FEMALE RESTROOM WALL SIGN	7-	ALL FEMALE RESTROOMS
MALE RESTROOM WALL SIGN	11-	ALL MALE RESTROOMS
UNISEX RESTROOM WALL SIGN	15-	ALL SINGLE USE RESTROOMS
TACTILE EXIT SIGNAGE A (EXIT)	9A-	ALL EXTERIOR EXIT DOORS
TACTILE EXIT SIGNAGE B (EXIT ROUTE)	9B-	ALL HALLWAY EXIT DOORS AND/OR AS NOTED
TACTILE EXIT SIGNAGE C (EXIT STAIR DOWN)	9C-	ALL EXIT STAIRS
NO SMOKING SIGNAGE	8-	ALL MAIN EXTERIOR BUILDING ENTRY
ACCESSIBILITY SIGNAGE	13-	PUBLIC EXTERIOR BUILDING ENTRY
ROOM CONTROL SIGNAGE	12-	ALL INTERIOR AND EXTERIOR ROOMS
DEDICATION PLAQUE	16-	FRONT ENTRY, VERIFY LOCATION
FIRE RISER ROOM SIGNAGE	17-	ROOM 117
WHEEL CHAIR LIFT SIGN	18-	ROOM 114
ASSISTIVE LISTENING DEVICE SIGN	19-	ROOM 114
-	-	-
-	-	-
-	-	-
-	-	-

NOTES
1. REFER TO DETAIL 2/- AND 3/- FOR MOUNTING
2. REFER TO DETAIL 4/- AND 5/- FOR BRAILLE TEMPLATE
3. AT GLAZING WHERE BACKING WILL BE EXPOSED ON THE REVERSE SIDE, PROVIDE AN OPAQUE STICKER TO THE GLAZING BEFORE MOUNTING WITH ADHESIVE

FILE/CSI NUMBER: XD10-034 REVISION DATE: 04/20/2020 JOB NUMBER: JOB NUMBER

		SIGNAGE SCHEDULE	N.T.S.	1

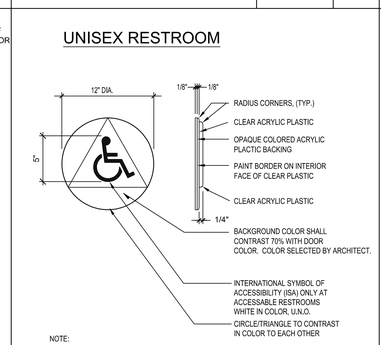


NOTE:
ATTACH SIGNS USING FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. LOCATE ONE SIGN AT EACH LEVEL THAT WHEEL CHAIR LIFT SERVES. TEXT SHALL BE AT LEAST 1/2" IN HEIGHT IN FONT STYLE AS SELECTED.

* INFORMATION TO BE PROVIDED BY OWNER AND INCLUDED AS PART OF SIGN

FILE/CSI NUMBER: XD10-004 REVISION DATE: 08/28/2023 JOB NUMBER: JOB NUMBER

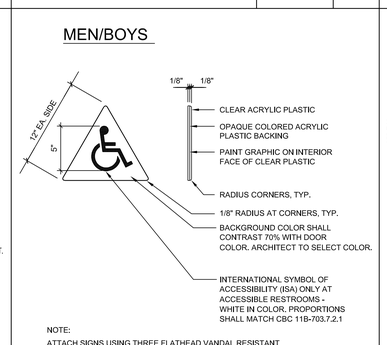
		22	WHEEL CHAIR LIFT SIGN	3"=1'-0"	18



NOTE:
ATTACH SIGN USING FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGN SHALL BE CENTERED ON THE DOOR AND MOUNTED 5'-0" ABOVE FIN. FLOOR LINE TO CENTER OF SIGN.

FILE/CSI NUMBER: XD10-015 REVISION DATE: 02/23/2009 JOB NUMBER: JOB NUMBER

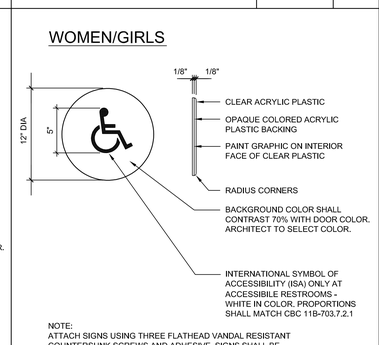
		14	RESTROOM SYMBOL	1 1/2"=1'-0"	14



NOTE:
ATTACH SIGNS USING THREE FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE CENTERED ON THE DOOR AND MOUNTED 5'-0" ABOVE FIN FLOOR LINE TO CENTER OF SIGN. REFER TO SIGNAGE SCHED. FOR LOCATIONS.

FILE/CSI NUMBER: D1-07101 REVISION DATE: 03/12/2021 JOB NUMBER: JOB NUMBER

		10	RESTROOM SYMBOL	1 1/2"=1'-0"	10

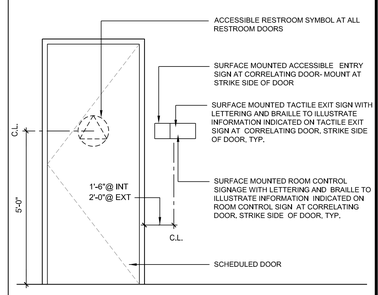


NOTE:
ATTACH SIGNS USING THREE FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE CENTERED ON THE DOOR AND MOUNTED 5'-0" ABOVE FIN FLOOR LINE TO CENTER OF SIGN. REFER TO SIGNAGE SCHED FOR LOCATIONS.

FILE/CSI NUMBER: D1-03101 REVISION DATE: 03/12/2021 JOB NUMBER: JOB NUMBER

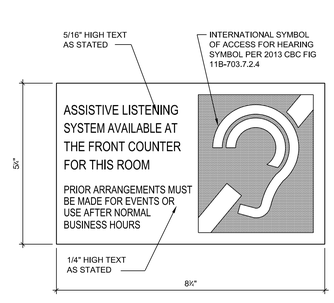
		6	RESTROOM SYMBOL	1 1/2"=1'-0"	6

NOTE:
AT ALL DOUBLE DOORS LOCATE SIGNAGE ADJACENT TO JAMB OF INACTIVE LEAF OF DOOR PAIR. PROVIDE 90 DEGREE INHIBITOR TYPE CLOSER ON INACTIVE DOOR.



FILE/CSI NUMBER: XD10-017 REVISION DATE: 02/23/2009 JOB NUMBER: 0518000

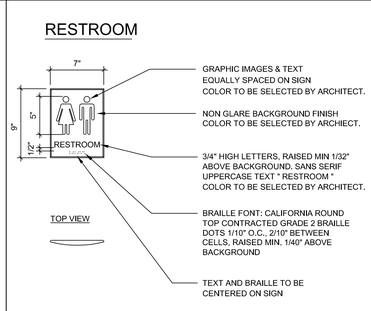
		4	SIGN MOUNTING DETAIL	1/2"=1'-0"	2



NOTE: PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT COUNTERSUNK FASTENERS AND ADHESIVE SEE TO SIGNAGE SCHEDULE FOR LOCATIONS.

FILE/CSI NUMBER: XD10-005 REVISION DATE: 08/28/2023 JOB NUMBER: JOB NUMBER

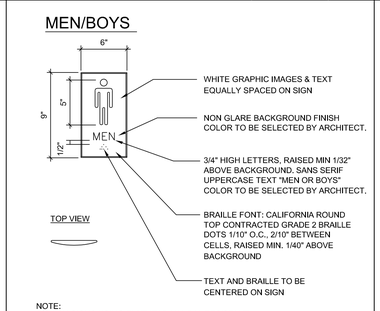
		23	ASSISTIVE LISTENING DEVICE SIGN	HALF	19



NOTE:
ATTACH SIGNS USING FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE MOUNTED 5'-0" ABOVE FIN FLOOR LINE TO THE CENTERLINE OF THE SIGN ON THE STRIKE SIDE OF THE DOOR PER 11B-703.4.1. REFER TO SIGNAGE SCHED. FOR LOCATIONS.

FILE/CSI NUMBER: D1-121010 REVISION DATE: 04/17/2020 JOB NUMBER: JOB NUMBER

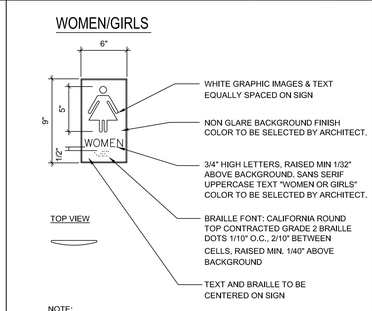
		15	WALL MTD RESTRM SIGN	1 1/2"=1'-0"	15



NOTE:
ATTACH SIGNS USING FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE MOUNTED 5'-0" ABOVE FIN FLOOR LINE TO THE CENTERLINE OF THE SIGN ON THE STRIKE SIDE OF THE DOOR PER 11B-703.4.1. REFER TO SIGNAGE SCHED. FOR LOCATIONS.

FILE/CSI NUMBER: D1-08101 REVISION DATE: 03/12/2021 JOB NUMBER: JOB NUMBER

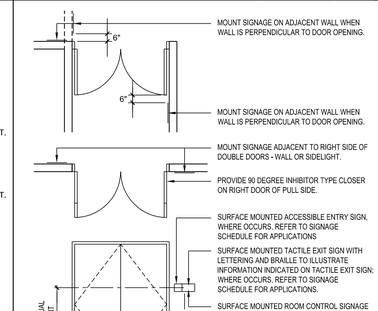
		11	WALL MTD RESTRM SIGN	1 1/2"=1'-0"	11



NOTE:
ATTACH SIGNS USING FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE MOUNTED 5'-0" ABOVE FIN FLOOR LINE TO THE CENTERLINE OF THE SIGN ON THE STRIKE SIDE OF THE DOOR PER 11B-703.4.1. REFER TO SIGNAGE SCHED. FOR LOCATIONS.

FILE/CSI NUMBER: D1-04101 REVISION DATE: 03/12/2021 JOB NUMBER: JOB NUMBER

		7	WALL MTD RESTRM SIGN	1 1/2"=1'-0"	7



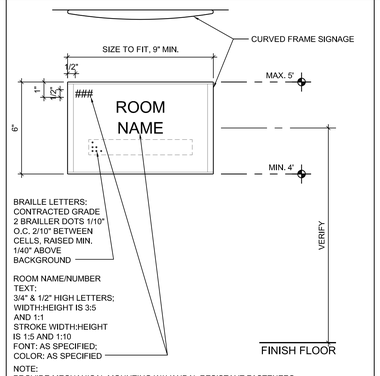
FILE/CSI NUMBER: D1-15101 REVISION DATE: 04/17/2020 JOB NUMBER: JOB NUMBER

		3	SIGNAGE MOUNTING DETAIL	1/4"=1'-0"	3

NOTE: COORDINATE FINAL LOCATION WITH OWNER.

FILE/CSI NUMBER: XD10-011 REVISION DATE: 08/28/2023 JOB NUMBER: JOB NUMBER

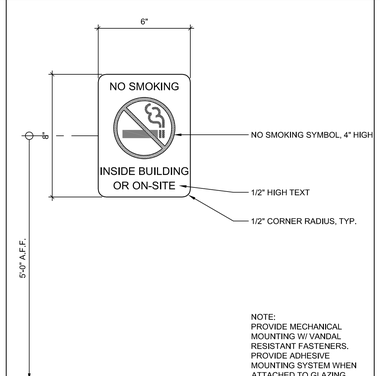
		16	DEDICATION PLAQUE	1 1/2"=1'-0"	16



NOTE:
PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.

FILE/CSI NUMBER: XD10-021_B REVISION DATE: 02/01/2009 JOB NUMBER: 16104

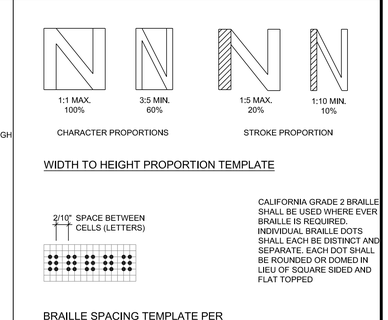
		12	ROOM CONTROL SIGNAGE	3"=1'-0"	12



NOTE:
PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING

FILE/CSI NUMBER: XD10-032 REVISION DATE: 04/02/2018 JOB NUMBER: 17256

		8	NO SMOKING SIGNAGE	3"=1'-0"	8



WIDTH TO HEIGHT PROPORTION TEMPLATE

CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHERE EVER BRAILLE IS REQUIRED. INDIVIDUAL BRAILLE DOTS SHALL EACH BE DISTINCT AND SEPARATE. EACH DOT SHALL BE ROUNDED OR DOMED IN LIEU OF SQUARE SIDED AND FLAT TOPPED

BRAILLE SPACING TEMPLATE PER (CBC) CALIFORNIA BUILDING CODE AND (CCR) CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2

FILE/CSI NUMBER: XD10-035 REVISION DATE: 04/02/2018 JOB NUMBER: 17256

		4	SIGNAGE TEMPLATES	FULL	4

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
NICOLE HEADHAM
C-19664
Ve.Exp. 03/31/27
STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
1			REVISIONS

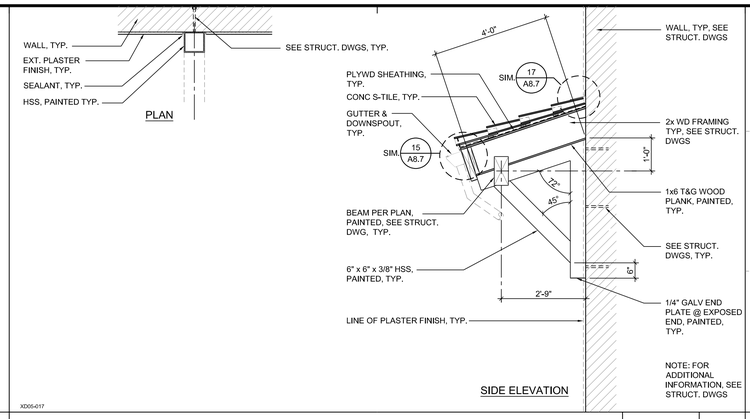
DRAWN:	JM	CHECKED:	KN
DATE:	05/21/2025	SCALE:	AS NOTED
PROJECT NUMBER:	W2100100AR		

SIGNAGE DETAILS

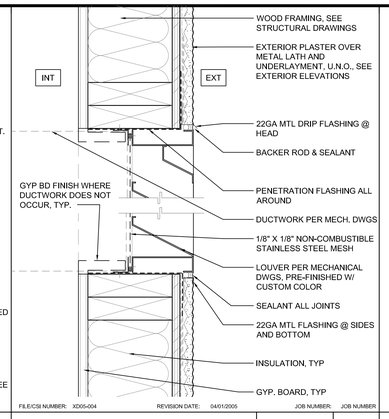
DRAWING NUMBER: A8.5

BID SET_20250918

REVIEWED
Aug 25, 2025
BUILDING & SAFETY
CITY OF FONTANA

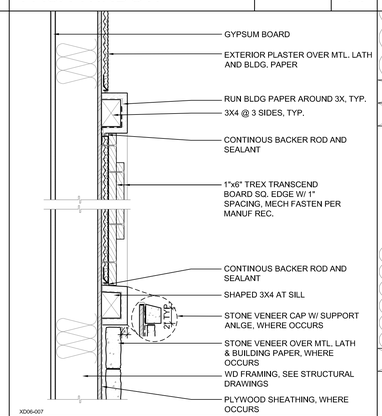


	21	METAL OUTRIGGER	1/2"=1'-0"	13	WALL LOUVER	3"=1'-0"	9



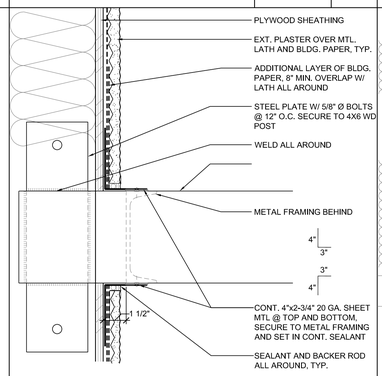
FILE/CSI NUMBER: XD05-004 REVISION DATE: 04/01/2005 JOB NUMBER: JOB NUMBER

	22	PARAPET TUBE STEEL FENCING	3/4"=1'-0"	18	FAUX WINDOW	1/2"=1'-0"	14



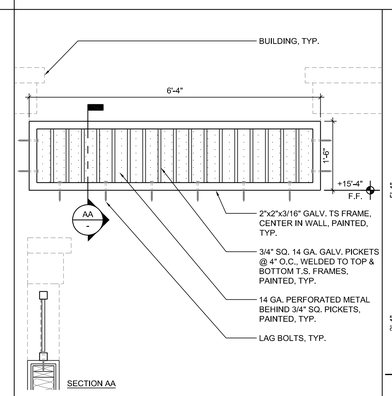
XD06-007

	23			19	FAUX WINDOW	1-1/2"=1'-0"	15

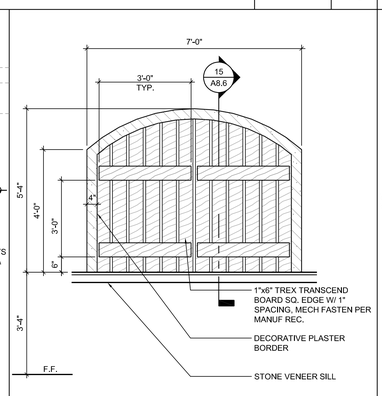


FILE/CSI NUMBER: XD05-010 REVISION DATE: 03/26/2024 JOB NUMBER: JOB NUMBER

	24			20	METAL AWNING DETAIL	3"=1'-0"	16



FILE/CSI NUMBER: XD05-018 REVISION DATE: 03/26/2024 JOB NUMBER: 17256



FILE/CSI NUMBER: XD06-005 REVISION DATE: 03/22/2024 JOB NUMBER: JOB NUMBER

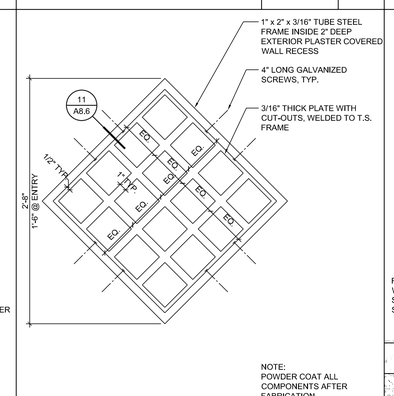
	25			21	FAUX WINDOW	1"=1'-0"	17

FILE/CSI NUMBER: XD06-006 REVISION DATE: 00/00/2004 JOB NUMBER: JOB NUMBER

	26			22	METAL AWNING DETAIL	3"=1'-0"	18

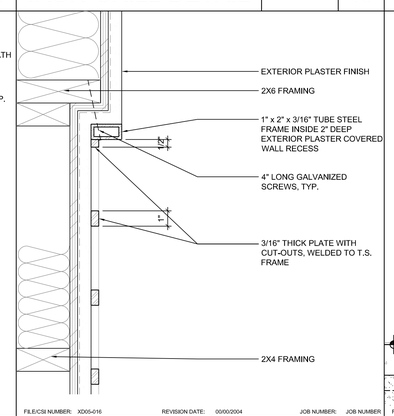
FILE/CSI NUMBER: XD05-009 REVISION DATE: 03/26/2024 JOB NUMBER: JOB NUMBER

	27			23	AWNING @ STUD WALL	1"=1'-0"	19



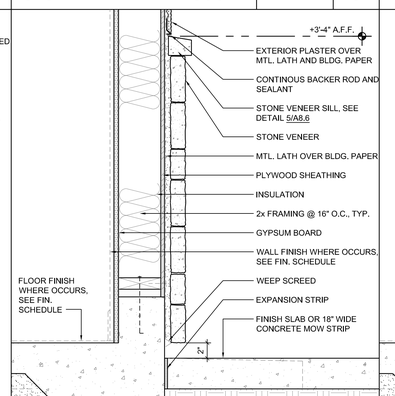
FILE/CSI NUMBER: XD05-014 REVISION DATE: 03/20/2024 JOB NUMBER:

	28			24	IRON GRILL DETAIL	3"=1'-0"	20



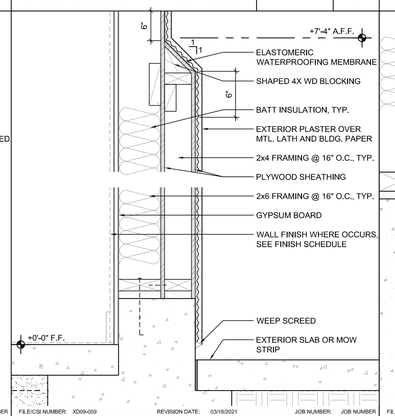
FILE/CSI NUMBER: XD05-016 REVISION DATE: 00/00/2004 JOB NUMBER: JOB NUMBER

	29			25	IRON GRILL DETAIL	3"=1'-0"	21



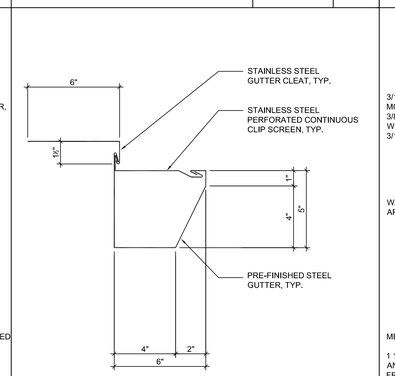
FILE/CSI NUMBER: XD09-003 REVISION DATE: 02/10/2004 JOB NUMBER: 09200

	30			26	VENEER AT STUD	1 1/2"=1'-0"	6



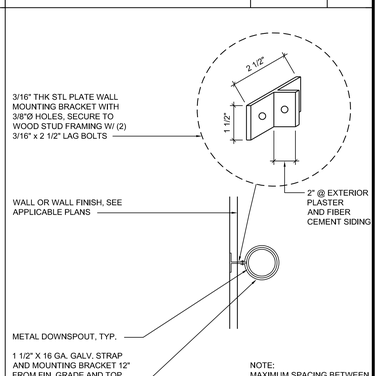
FILE/CSI NUMBER: XD09-009 REVISION DATE: 03/18/2021 JOB NUMBER: JOB NUMBER

	31			27	WAINSCOT AT STUD	1 1/2"=1'-0"	7



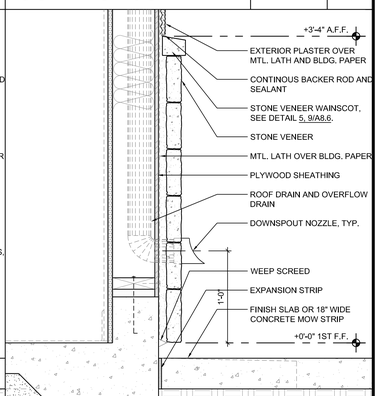
XD07-025

	32			28	ROOF DRAIN / OVERFLOW DRAIN	1 1/2"=1'-0"	2

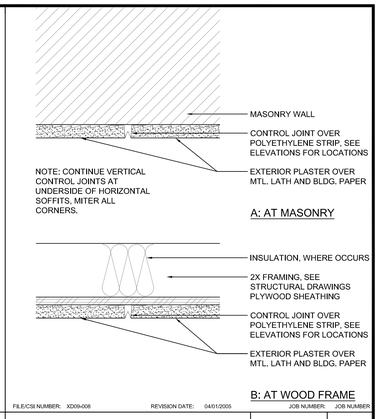


FILE/CSI NUMBER: XD07-048 REVISION DATE: 01/02/2013 JOB NUMBER: 16104

	33			29	DOWNSPOUT BRACKET	1 1/2"=1'-0"	4

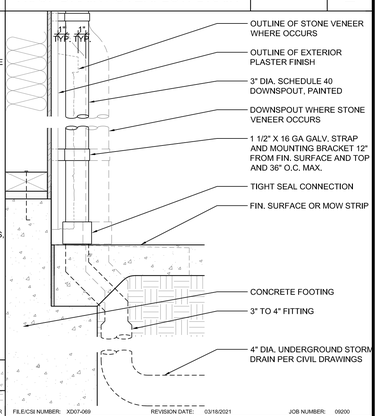


FILE/CSI NUMBER: XD07-007 REVISION DATE: 04/16/2004 JOB NUMBER: 09200



FILE/CSI NUMBER: XD09-008 REVISION DATE: 04/01/2005 JOB NUMBER: JOB NUMBER

	34			30	CONTROL JOINT	3"=1'-0"	1



FILE/CSI NUMBER: XD07-069 REVISION DATE: 03/18/2021 JOB NUMBER: 09200

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FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLY KNOWHAM
C-19664
Ve Exp. 03/31/27
STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
			REVISIONS

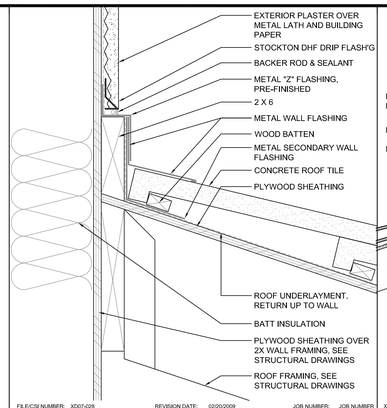
DRAWN: JM	CHECKED: KN
DATE: 05/21/2025	SCALE: AS NOTED
PROJECT NUMBER: W2100100AR	

EXTERIOR & ROOF DETAILS

DRAWING NUMBER: A8.6

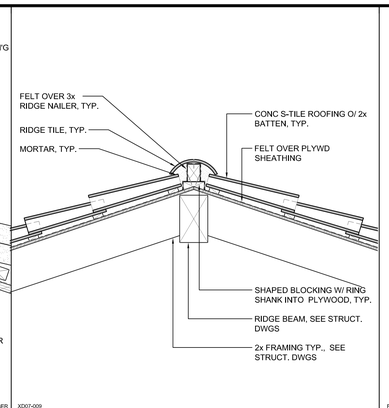
BID SET_20250818

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA



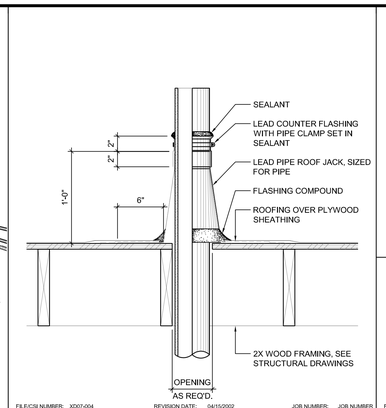
FILE/CSI NUMBER: XD07-028 REVISION DATE: 02/20/2009 JOB NUMBER: JOB NUMBER

		21	ROOF HEAD / WALL FLASHING	3"=1'-0"	17



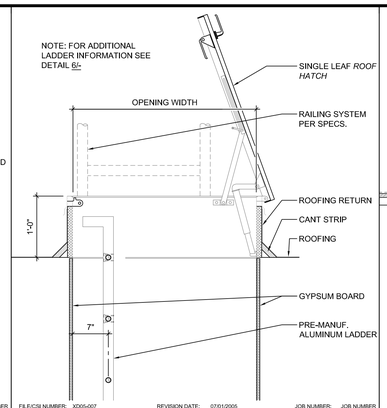
XD07-009

			RIDGE/HIP	1"=1'-0"	13



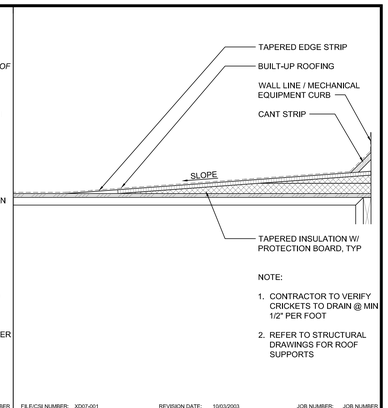
FILE/CSI NUMBER: XD07-004 REVISION DATE: 04/15/2002 JOB NUMBER: JOB NUMBER

			PIPE ROOF VENT	1 1/2"=1'-0"	9



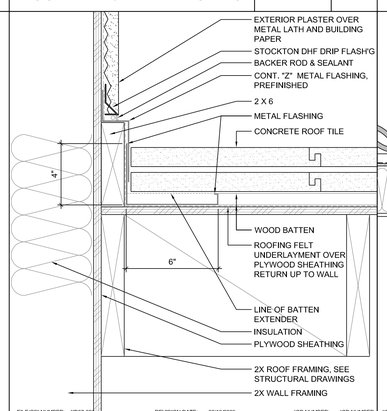
FILE/CSI NUMBER: XD05-007 REVISION DATE: 07/01/2005 JOB NUMBER: JOB NUMBER

			ROOF HATCH	1"=1'-0"	5



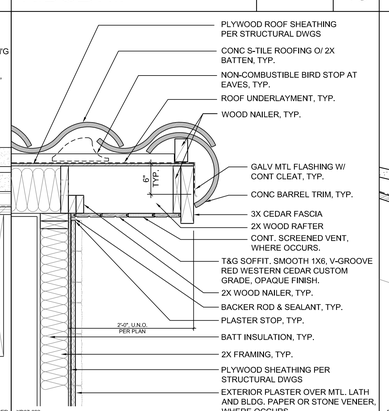
FILE/CSI NUMBER: XD07-001 REVISION DATE: 10/03/2003 JOB NUMBER: JOB NUMBER

			CRICKET	1"=1'-0"	1



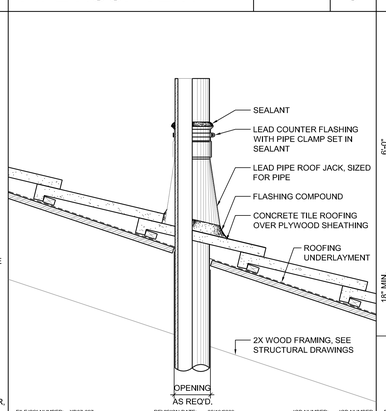
FILE/CSI NUMBER: XD07-026 REVISION DATE: 02/19/2009 JOB NUMBER: JOB NUMBER

		22	STUD WALL / ROOF FLASHING	3"=1'-0"	18



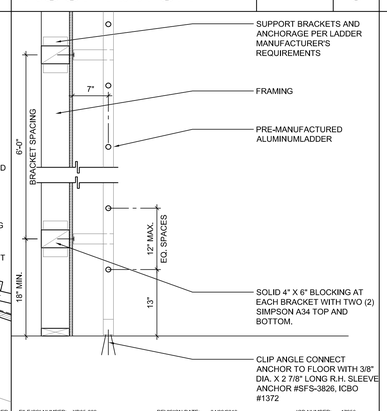
XD07-023

			RAKE AT GABLE END	1"=1'-0"	14



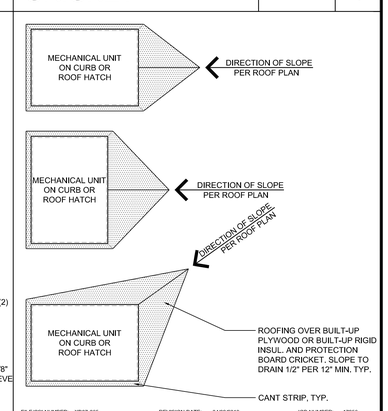
FILE/CSI NUMBER: XD07-027 REVISION DATE: 02/19/2009 JOB NUMBER: JOB NUMBER

			PIPE ROOF VENT	1 1/2"=1'-0"	10



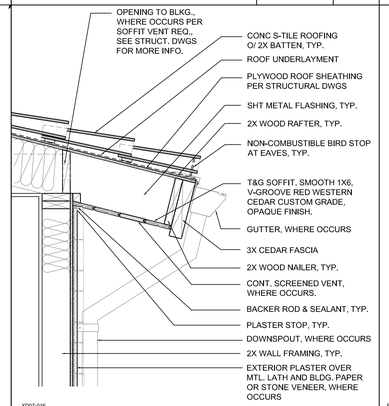
FILE/CSI NUMBER: XD05-008 REVISION DATE: 04/02/2018 JOB NUMBER: 17256

			ACCESS LADDER	1"=1'-0"	6



FILE/CSI NUMBER: XD07-065 REVISION DATE: 04/02/2018 JOB NUMBER: 17256

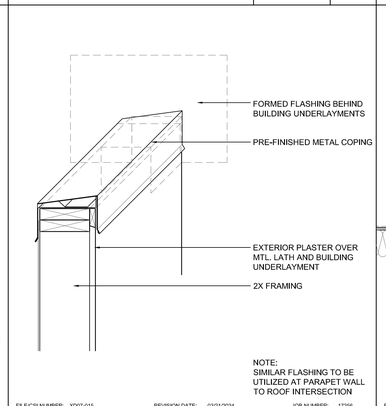
			TYP. ROOF EQUIPMENT CRICKET	1/4"=1'-0"	2



XD07-016

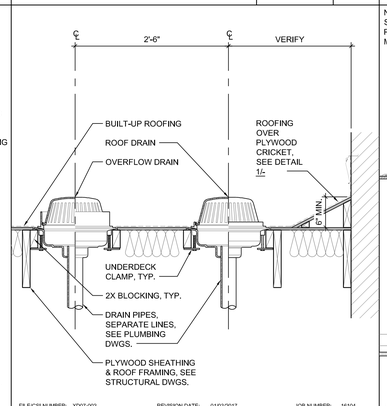
		23			19

EAVE CONDITION	1"=1'-0"	15



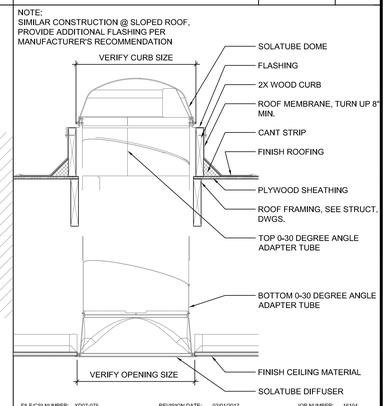
FILE/CSI NUMBER: XD07-015 REVISION DATE: 03/21/2024 JOB NUMBER: 17256

FLASHING AT INTERSECTING WALLS	1 1/2"=1'-0"	11



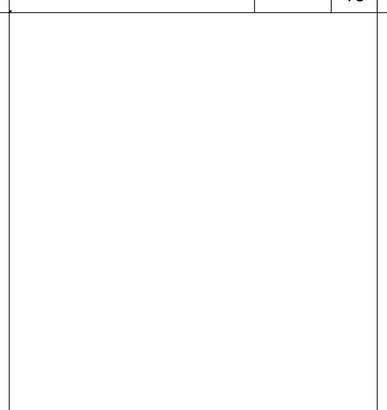
FILE/CSI NUMBER: XD07-002 REVISION DATE: 01/03/2017 JOB NUMBER: 16104

ROOF / OVERFLOW DRAIN	1"=1'-0"	7



FILE/CSI NUMBER: XD07-075 REVISION DATE: 02/01/2017 JOB NUMBER: 16104

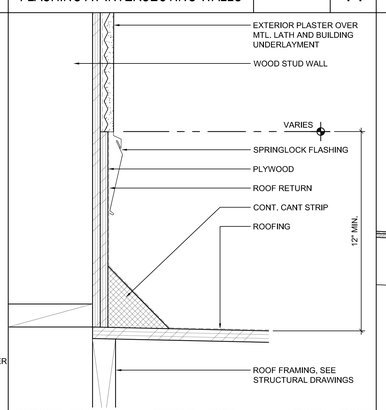
TUBULAR SKYLIGHT	1"=1'-0"	3



XD07-024

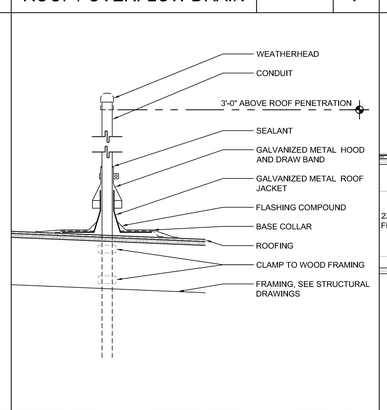
		24			20

PARAPET WALL METAL COPING	3"=1'-0"	16



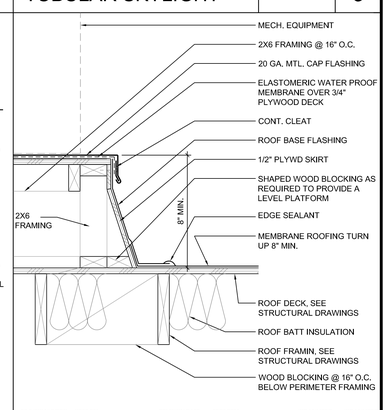
FILE/CSI NUMBER: XD07-113 REVISION DATE: 02/01/2017 JOB NUMBER: JOB NUMBER

STUD WALL TO FLAT ROOF	3"=1'-0"	12



FILE/CSI NUMBER: XD07-003 REVISION DATE: 04/02/2018 JOB NUMBER: 17256

CONDUIT AT ROOF	1"=1'-0"	8



FILE/CSI NUMBER: XD07-071 REVISION DATE: 03/30/2021 JOB NUMBER: JOB NUMBER

ROOF MECH. PLATFORM	1 1/2"=1'-0"	4

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLEY KEESHAM
C-19664
Ve Inc 03/31/27
STATE OF CALIFORNIA

CONSULTANT

NO	DATE	BY	DESCRIPTION
1			REVISIONS

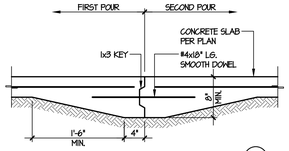
DRAWN: CHECKED: KN
DATE: 05/21/2025 SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

ROOF DETAILS

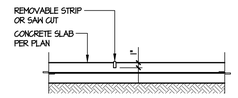
DRAWING NUMBER: A8.7

BID SET_20250818

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA



CONSTRUCTION JOINT (A)
(C.J. ON PLANS AND 30'-0" O.C. MAX.)

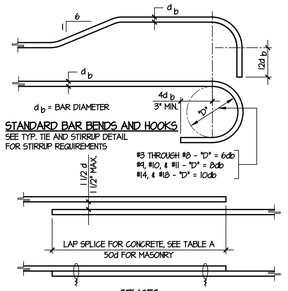


WEAKENED PLANE JOINT (B)
(W.P.J. ON PLANS AND 15'-0" O.C. MAX.)

SLAB JOINT DETAILS (4)
SCALE: NOT TO SCALE

TABLE A							
	BAR LAP SPLICES IN CONCRETE (CLASS B) 3000 P.S.I.			BAR LAP SPLICES IN CONCRETE (CLASS B) 3500 P.S.I.		BAR LAP SPLICES IN CONCRETE (CLASS B) 4000 P.S.I.	
	BAR SIZE	BAR LAP		BAR SIZE	BAR LAP	BAR SIZE	BAR LAP
51 db	#4	24"	523 db	#4	21"	464 db	#4	25"
	#5	36"		#5	33"		#5	31"
	#6	43"		#6	40"		#6	37"
	#7	63"		#7	58"		#7	54"
71.2 db	#8	72"	66 db	#8	66"	61.1 db	#8	62"
	#9	81"		#9	75"		#9	70"
	#10	84"		#10	84"		#10	78"

NOTE: ALL TABULATED BAR LAPS SHALL BE MULTIPLIED BY 1.3 FOR LIGHT WEIGHT CONCRETE.

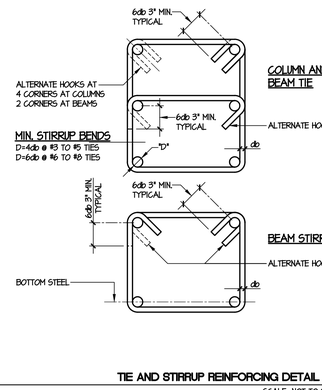


STANDARD BAR BENDS AND HOOKS
SEE TYP. TIE AND STIRRUP DETAIL FOR STIRRUP REQUIREMENTS

SPLICES

* NOTE. PROVIDE MIN. 72 BAR DIA. LAP SPLICE FOR THE FOLLOWING MASONRY REINFG. CONDITIONS:
1. ALL JAMB REINFORCING.
2. VERTICAL REINFORCING SPLICES OCCURING AT MID 1/3 HEIGHT OF WALL.
3. ALL CHORD REINFORCING.
4. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN db, CLEAR COVER NOT LESS THAN db, AND STIRRUPS OR TIES THROUGHOUT IT NOT LESS THAN THE MINIMUM OR CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2db AND CLEAR COVER NOT LESS THAN db.

LAP REINFORCING DETAIL (6)
SCALE: NOT TO SCALE



TIE AND STIRRUP REINFORCING DETAIL (7)
SCALE: NOT TO SCALE

LEGEND

A.B.	ANCHOR BOLT	F.O.C.	FACE OF CONCRETE	SHTG.	SHEATHING
BLKG.	BLOCKING	F.O.M.	FACE OF MASONRY	S.J.	SEPARATION JOINT
BM.	BEAM	F.O.S.	FACE OF STUD	SQ.	SQUARE
B.N.	BOUNDARY NAILING	F.S.	FAR SIDE	SIM.	SIMILAR
C.	CAMBER	FRMG.	FRAMING	S.M.	SHEET METAL
C.B.	CARRIAGE BOLT	FTG.	FOOTING	S.P.	SEE PLAN
CLR.	CLEAR	GALV.	GALVANIZED	STAGG.	STAGGERED
C.J.	CONSTRUCTION JOINT	GA.	GAUGE	STD.	STANDARD
C.M.U.	CONCRETE MASONRY UNIT	GLB.	GLUE LAMINATED BEAM	STL.	STEEL
CONT.	CONT. NAILING	GYP. BD.	GYPSUM BOARD	STL. JST.	STEEL JOIST
COL.	COLUMN	H.A.B.	HEADED ANCHOR BOLT	T.O.C.	TOP OF CONCRETE
CONC.	CONCRETE	H.D.	HOLD DOWN	T.O.M.	TOP MASONRY
CONN.	CONNECTION	HORIZ.	HORIZONTAL	T.O.M.D.	TOP OF METAL DECK
CONT.	CONTINUOUS	H.S.A.	HEADED STUD ANCHOR	T.O.P.	TOP OF PLYWOOD
C.P.	COMPLETE PENETRATION	H.S.B.	HIGH STRENGTH BOLT	T.O.PAR.	TOP OF PARAPET
C.P.E.	CONT. PANEL EDGES	H.S.S.	HOLLOW STRUCTURAL SECTION	T.O.PLT.	TOP OF PLATE
D.B.A.	DEFORMED BAR ANCHOR	JST.	JOIST	T.O.S.	TOP OF STEEL
DBL.	DOUBLE	LT. WT.	LIGHT WEIGHT	T.S.	TUBE STEEL
D.B.	DRAG BAR	MAS.	MASONRY	T.S.G.	TRUSS STEEL GIRDER
DIA.	DIAMETER	M.B.	MACHINE BOLT	TYP.	TYPICAL
DO.	DITTO	(N)	NEW	U.N.O.	UNLESS NOTED OTHERWISE
DRWG.	DRAWING	N.S.	NEAR SIDE	VERT.	VERTICAL
EA.	EACH	N.T.S.	NOT TO SCALE	W.O.	WHERE OCCURS
ELEV.	ELEVATION	O.C.	ON CENTER	W.P.J.	WEAKENED PLANE JOINT
(E)	EXISTING	O.H.	OPPOSITE HAND	W.W.F.	WELDED WIRE FABRIC
E.J.	EXPANSION JOINT	OPNG.	OPENING		
E.N.	EDGE NAILING	P.J.	POUR JOINT		
E.S.	EDGE SCREW	PLT.	PLATE		
EQ.	EQUAL	PLYMD.	PLYWOOD		
EXT.	EXTERIOR	REQD.	REQUIRED		
FDN.	FOUNDATION	REM.	REMAINDER		
F.G.	FINISH GRADE	RL.	REDLAM		
F.H.W.S.	FLAT HEAD WOOD SCREWS	R.S.	ROUGH SAWN		
F.N.	FIELD NAILING				

DETAIL REFERENCE
5/8 — DETAIL NUMBER; SHEET NO. WHERE DRAWN

SHEAR WALL REFERENCE
A / 10'-0" — SHEAR WALL TYPE; SHEAR WALL LENGTH

WALL ELEVATION
1 / 5/8 — WALL ELEVATION LETTER; SHEET NO. WHERE DRAWN

WALL SECTION
1 / 5/8 — WALL SECTION LETTER; SHEET NO. WHERE DRAWN

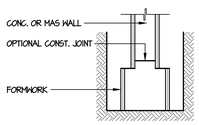
INDICATES ROOF SLOPE

STEP FOOTING

0'-0" REF. — REFERENCE ELEVATION

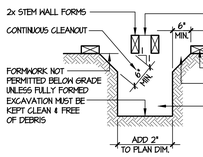
-3'-0" — REFERENCE ELEVATION TO BOTTOM OF FOOTING

HB — INDICATES HOLD DOWN



FOOTING AND FOUNDATION WALL MAY BE POURED MONOLITHIC PROVIDED THE SIDES OF THE FOOTING ARE FORMED AND THE EXCAVATION IS LARGE ENOUGH TO PROPERLY CLEAN THE EXCAVATION AND TIE THE REINFORCING. A FORM JOINT IS MANDATORY IF THE SIDES OF THE FOOTING ARE NOT FORMED

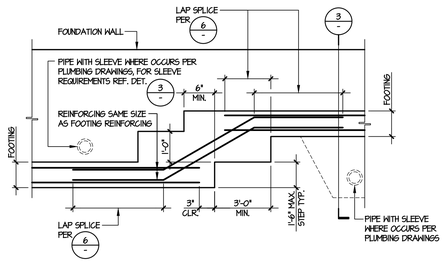
FULLY FORMED FOOTING (MONOLITHIC POUR) (A)



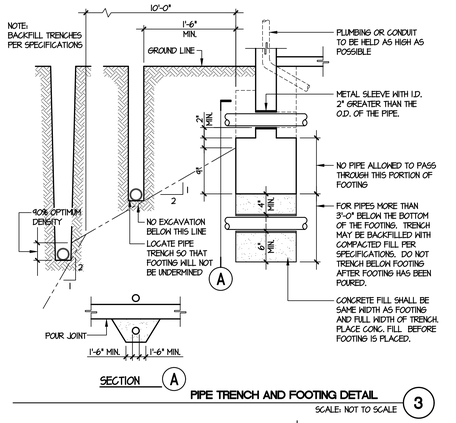
NOTES:
1. FOUNDATION CONC. MAY BE PLACED DIRECTLY INTO NEAT EXCAVATION, PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER), SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL. IN SUCH CASE, THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE.

UNIFORMED FOOTING POURED AGAINST GRADE (B)
MANDATORY MINIMUM FORMWORK UNLESS FULLY FORMED

FOUNDATION FORMING DETAILS (1)
SCALE: NOT TO SCALE



TYPICAL STEPPED FOOTING DETAIL (2)
SCALE: NOT TO SCALE



SECTION (A)

PIPE TRENCH AND FOOTING DETAIL (3)
SCALE: NOT TO SCALE

SPECIAL INSPECTIONS TABLE:

	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REMARKS
STEEL (SECTION 1705.2.1)	WELDING			
	STRUCTURAL STEEL: COMPLETE AND PARTIAL PENETRATION WELDS	YES	NO	DURING THE WELDING
	STRUCTURAL STEEL: FIELD WELDS	YES	NO	DURING THE WELDING
	STRUCTURAL STEEL: MULTIPASS FILLET WELDS	YES	NO	DURING THE WELDING
	REINFORCING STEEL: SHEAR REINFORCEMENT	YES	NO	DURING THE WELDING
	REINFORCING STEEL: OTHER REINFORCING STEEL	NO	YES	DURING THE WELDING
CONCRETE (SECTION 1705.3)	INSPECT BOLTS TO BE INSTALLED IN CONCRETE	NO	YES	PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED
	INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	YES	NO	-
	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	YES	NO	-
	VERIFYING USE OF REQUIRED DESIGN MIX	NO	YES	PRIOR TO POURING OF CONCRETE
	FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	YES	NO	AT THE TIME FRESH CONCRETE IS SAMPLED
	VERIFICATION OF IN-SITU CONCRETE STRENGTH	NO	YES	PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS
	INSPECTION OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	NO	YES	PRIOR TO POURING OF CONCRETE
SOILS (SECTION 1705.6)	NON-STRUCTURAL SLABS	NO	NO	-
	CONTINUOUS CONCRETE FOOTINGS (LIGHT FRAME CONSTRUCTION)	NO	NO	-
	POST INSTALLED ANCHORS	YES	NO	FULL TEST 20% OF ANCHORS, WHERE FAILURE OCCURS TEST ALL
	VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	NO	YES	PRIOR TO THE FORMWORK
	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	NO	YES	PRIOR TO THE FORMWORK
	PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS	NO	YES	PRIOR TO THE FORMWORK
	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	YES	NO	PRIOR TO THE FORMWORK
	OBSERVE SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERLY	NO	YES	PRIOR TO PLACEMENT OF CONTROLLED FILL
WOOD (SECTION 1705.12.2)	FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC - FORCE - RESISTING SYSTEM	N/A	N/A	DURING FIELD GLUING
	NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC - FORCE - RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLD-DOWNS	NO	YES	PRIOR TO AND DURING NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS
MASONRY (SECTION 1705.4)	PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS	NO	YES	DURING THE PLACEMENT OF MASONRY UNITS
	GROUT SPACE	YES	NO	PRIOR TO GROUTING
	PROPORTIONS OF SITE-PREPARED MORTAR AND GROUT	NO	YES	AT TIME OF PREPARATION
	PLACEMENT OF REINFORCEMENT AND CONNECTORS	NO	YES	PRIOR TO GROUTING
	PLACEMENT OF GROUT	YES	NO	DURING PLACEMENT OF GROUT
	SIZE AND LOCATION OF STRUCTURAL ELEMENTS	NO	YES	PRIOR TO GROUTING
	TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE TO MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	YES	NO	PRIOR TO AND DURING PLACEMENT
	SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT	NO	YES	PRIOR TO GROUTING
	PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED	YES	NO	AT THE TIME FRESH GROUT IS SAMPLED
	COMPLIANCE WITH REQUIRED SPECIAL INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED	NO	YES	PRIOR TO AND DURING PLACEMENT OF UNITS, REINFORCING AND GROUTING
ARCHITECTURAL COMPONENTS (SECTION 1705.13)	EXTERIOR CLADDING, INTERIOR AND EXTERIOR NON-BEARING WALLS AND EXTERIOR/INTERIOR VENEER	NO	YES	DURING ERECTION AND FASTENING
MECHANICAL AND ELECTRICAL COMPONENTS (SECTION 1705.13)	ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS	NO	YES	DURING INSTALLATION OF ANCHORAGE
	ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT WHEN ASSIGNED TO SEISMIC DESIGN CATEGORY E OR F SEE "DESIGN LOADS" FOR SEISMIC DESIGN CATEGORY	NO	YES	DURING INSTALLATION OF ANCHORAGE
	PIPE SYSTEMS INTENDED TO CARRY FLAMMABLE, COMBUSTIBLE, OR HIGHLY TOXIC CONTENTS AND THEIR ASSOCIATED MECHANICAL UNITS	NO	YES	DURING INSTALLATION OF PIPE SYSTEM
	HVAC DUCTWORK THAT WILL CONTAIN HAZARDOUS MATERIALS	NO	YES	DURING INSTALLATION OF DUCTWORK
	VIBRATION ISOLATION SYSTEMS WHERE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF 1/4" OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT	NO	YES	DURING INSTALLATION OF VIBRATION ISOLATION SYSTEMS
OTHERS	PILE, PIER AND CAISSONS (SECTIONS/TABLE 1705.1 AND 1705.8)	YES	NO	DURING DRIVING AND TESTING OF PILES AND CONSTRUCTION OF CAISSONS
	SPRAYED FIRE-RESISTANT MATERIALS (SECTION 1705.14)	YES	NO	DURING THE SPRAYING
	SPECIAL CASES (SECTION 1704.13)	YES	NO	WORK WHICH, IN THE OPINION OF THE BUILDING OFFICIAL, INVOLVES UNUSUAL CONDITIONS OR HAZARD

LUMBER - CONTINUED:

7. PROVIDE APPROVED METAL CROSS BRIDGING AT 8'-0" ON CENTER FOR JOISTS AND RAFTERS GREATER THAN 6" IN DEPTH.
8. 2" SOLID BLOCKING SHALL BE PROVIDED BETWEEN JOISTS AND RAFTERS AT ALL BEARING SUPPORTS.
9. NOTCH, AS REQUIRED, ALL JOISTS AND RAFTERS TO PROVIDE LEVEL, FULL BEARING AT JOISTS HANGERS, PLATES AND SUPPORTS.
10. BORE HOLES FOR BOLTS 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER.
11. BORED HOLES EXCEEDING ONE THIRD OF THE WIDTH OF THE MEMBER BEING PENETRATED SHALL NOT BE PLACED IN STUDS UNLESS FULLY DETAILED ON THE APPROVED PLANS. HOLES NOT EXCEEDING ONE THIRD OF THE WIDTH SHALL BE NEATLY BORED AND SHALL BE LOCATED IN THE CENTER OF THE MEMBER BEING PENETRATED.
12. RETIGHTEN ALL BOLTS PRIOR TO COVERING, AND MAKING THE BOLTED CONNECTION INACCESSIBLE.
13. ALL NAILS ARE TO BE COMMON NAILS AND ARE TO BE GALVANIZED WHEN EXPOSED.
14. INSTALL WALL BRACING ON ALL STUD WALLS NOT COVERED WITH PLYWOOD PER C.B.C. SECTION 2308.6
15. LINTEL SCHEDULE (UNLESS NOTED OTHERWISE ON PLAN)

(OPENING WIDTH)	LINTEL SIZE AT BEARING WALL (SOLID MEMBER)	LINTEL SIZE AT NON BEARING HALL (BUILT UP MEMBER)
3'-0" or less	stud width x 4"	2-2X4
3'-0" to 6'-0"	stud width x 6"	2-2X6
6'-1" to 8'-0"	stud width x 8"	2-2X8

16. SCHEDULE OF ALLOWABLE CEILING JOIST SPANS:

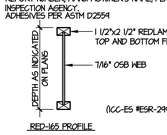
(JOIST)	MAX SPAN (GYP. BOARD FINISH)	MAX SPAN (PLASTER FINISH)
2X4 @ 16"o.c.	10'-0"	8'-0"
2x6 @ 16"o.c.	14'-0"	12'-0"
2x8 @ 16"o.c.	16'-0"	14'-0"

CEILING JOIST NOTE:
CONTRACTOR SHALL COORDINATE ALL GYPBED AND PLASTER CEILINGS WITH THE ARCHITECTURAL DWGS. CONTRACTOR SHALL PROVIDE CEILING JOISTS AS INDICATED IN CEILING JOIST SCHEDULE ABOVE, AND DETAIL 13/S0.3 WHERE PLASTER OR GYPBED. CEILINGS EXCEED THE SPANS OF THIS TABLE, REFER TO THE SUSPENDED CEILING SYSTEMS SHOWN IN ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL COORDINATE ALL OPENINGS IN CEILING FRAMING FOR MECHANICAL REGISTERS, AND RECESSED LIGHTING, ETC. AND FRAME OPENINGS WIDER THAN 14 1/2 INCHES PER DETAIL 12/S0.7

17. ALL FASTENERS AND CONNECTOR IN CONTACT WITH PRESERVATIVE TREATED AND FIRE TREATED WOOD SHALL BE OF HOT DIPPED ZINC COATED GALVANIZED STEEL.

PREFABRICATED PLYWOOD WEB JOISTS (RED-165):

1. CALCULATIONS AND SHOP DRAWINGS, STAMPED BY A LICENSED CALIFORNIA CIVIL OR STRUCTURAL ENGINEER, SHALL BE SUBMITTED FOR ENGINEERS APPROVAL PRIOR TO FABRICATION.
2. A PREFABRICATED PLYWOOD JOIST SHALL BE FABRICATED IN AN APPROVED FACILITY.
3. MANUFACTURER SUBSTITUTIONS PROPOSED BY THE CONTRACTOR WHICH REQUIRE ADDITIONAL TIME SPENT FOR REVIEW AND APPROVAL OR CHANGES TO THE CONTRACT DOCUMENTS ARE SUBJECT TO FEE CHARGES TO THE CONTRACTOR.
4. DESIGN LOADS: (POUNDS PER SQUARE FOOT, P.S.F.)
   ROOF DEAD LOAD: 28 P.S.F.
   ROOF LIVE LOAD: 20 P.S.F.
5. PLYWOOD WEB JOIST BLOCKING SHALL BE THE SAME MATERIAL AS THE PLYWOOD WEB JOIST.
6. PLYWOOD WEB JOISTS SHALL BE IDENTIFIED BY A STAMP INDICATING THE JOIST TYPE, ICC-ES REPORT NUMBER, MANUFACTURER'S NAME, PLANT NUMBER, PRODUCTION DATE AND THE NAME OF THE INSPECTION AGENCY.
7. ADHESIVES PER ASTM D2594



RED-165 PROFILE

MECHANICAL UNIT FRAMING NOTES

1. THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND WEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.

MASONRY:

1. ALL MASONRY CONSTRUCTION SHALL COMPLY WITH THE 2019 C.B.C. & ACI 530-13
2. MINIMUM MASONRY COMPRESSIVE STRENGTH (f'm) SHALL BE:
   NORMAL STRENGTH BLOCK . . . . . 2000 PSI
3. REINFORCING SHALL HAVE A MINIMUM ONE BAR DIAMETER GROUT COVERAGE.
4. REINFORCING SPLICES SHALL HAVE A MINIMUM 50 BAR DIA. LAP.
   PROVIDE MIN. 72 BAR DIA. LAP TYP. FOR ALL THE FOLLOWING CONDITIONS:
   A. ALL VERTICAL JAMB REINFORCING SPLICES.
   B. VERTICAL REINFORCING SPLICES OCCURRING AT MID 1/3 HEIGHT OF WALL.
   C. ALL CHORD BAR SPLICES.
5. MASONRY CONSTRUCTION SHALL BE REINFORCED AND GROUTED SOLID UNLESS NOTED OTHERWISE.
6. PIPES OR DUCTS ARE NOT PERMITTED WITHIN MASONRY CONSTRUCTION UNLESS SPECIFICALLY NOTED OR DETAILED.
7. CEMENT: PORTLAND CEMENT TYPE I OR II, LOW ALKALI, ASTM C-150
8. MORTAR SHALL CONFORM TO 2019 C.B.C. TABLE 2103.2 TYPE S- 1800 P.S.I.
9. GROUT: 1 PART CEMENT, 3 PART SAND, 2 PART GRAVEL.
   NORMAL STRENGTH BLOCK . . . . . 2000 PSI MIN.
   GROUT TP COMPLY WITH 2019 C.B.C. 2103.3
10. CONCRETE BLOCK SHALL CONFORM TO ASTM CXO GRADE N-I. (MEDIUM WEIGHT)
11. MASONRY SHALL BE LAID IN RUNNING BOND.
12. METAL REINFORCEMENT SHALL BE LOCATED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. REINFORCEMENT SHALL BE SECURED AGAINST DISPLACEMENT PRIOR TO GROUTING BY WIRE POSITIONERS OR OTHER SUITABLE DEVICES AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS.
13. HEIGHT OF GROUT LIFTS SHALL NOT EXCEED 4'-0", UNLESS APPROVED OTHERWISE.
14. HIGH LIFT GROUTED CONSTRUCTION SHALL CONFORM TO ACI 530 SPECIFICATIONS SECTION 3.2.1
    CONTRACTOR SHALL SUBMIT HIGH LIFT PROCEDURE TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL, PRIOR TO MASONRY BLOCK PLACMENT. CLEANOUTS REQUIRED FOR ALL GROUT LIFTS OVER 5'-0".
15. GROUT SHALL CONTAIN AN ADDITIVE THAT PRODUCES EXPANSIVE ACTION SUCH AS SIKA GROUT AID OR EQUIVALENT.

STRUCTURAL OBSERVATION:

1. THE OWNER SHALL EMPLOY A REGISTERED DESIGN PROFESSIONAL TO PERFORM STRUCTURAL OBSERVATIONS. THE STRUCTURAL OBSERVER SHALL VISUALLY OBSERVE REPRESENTATIVE LOCATIONS OF STRUCTURAL SYSTEMS, DETAILS, AND LOAD PATHS FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS.
2. STRUCTURAL OBSERVATION PRIOR TO COVERING SHALL BE PROVIDED AT THE FOLLOWING PHASES AS A MINIMUM.
   A. FOUNDATIONS, (AND) OTHER CONCRETE UPON COMPLETION OF REINFORCEMENT AND OTHER EMBEDDED ITEMS, PRIOR TO CONCRETE POUR.
   B. GRAVITY SYSTEM FRAMING: OBSERVE MEMBERS AND CONNECTIONS INCLUDING:
      1. STUDS/COLUMNS/WALLS
      2. JOISTS/BEAMS/SLABS
   C. VERTICAL LATERAL SYSTEM FRAMING: OBSERVE MEMBERS AND CONNECTIONS, PRIOR TO COVERING, INCLUDING (SAGE 1 TABLE 12.2-1):
      1. LIGHT FRAME (WOOD) WALLS SHEATHED WITH PLY./OSB (A/S1)
   D. HORIZONTAL LATERAL SYSTEM FRAMING: OBSERVE MEMBERS AND CONNECTIONS, PRIOR TO COVERING, INCLUDING:
      1. PLY./OSB SHEATHED DIAPHRAGMS
   E. FINAL OBSERVATION UPON COMPLETION OF ALL STRUCTURAL SYSTEMS AND CORRECTION OF ALL DEFICIENCIES.
   F. ADDITIONAL VISITATION AS DEEMED NECESSARY BY THE STRUCTURAL ENGINEER.
3. AT THE CONCLUSION OF THE PERMITTED WORK, A WRITTEN STATEMENT DOCUMENTING SITE VISITS AND IDENTIFYING ANY REPORTED DEFICIENCIES THAT HAVE NOT BEEN RESOLVED

STRUCTURAL OBSERVER(S)	LICENSE	PHONE NUMBER
- RICK BYRD	3350	(626) 664-0042
- FRANK RICE	55371	(626) 584-5231
- TYLER BOIMA	C46000	(562) 484-4105

SPECIAL INSPECTIONS:

1. SPECIAL INSPECTIONS AND TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF CBC SECTION 1704.1 AND THIS STATEMENT OF SPECIAL INSPECTIONS. THESE INSPECTIONS ARE IN ADDITION TO THE GENERAL BUILDING DEPARTMENT INSPECTIONS SPECIFIED IN CBC SECTION 110.
   A. WRITTEN DOCUMENTATION OF THE QUALIFICATIONS OF SPECIAL INSPECTORS FROM AN APPROVED AGENCY SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO CONSTRUCTION.
   B. THE APPROVED AGENCY SHALL PREPARE AND SUBMIT REPORTS OF SPECIAL INSPECTIONS AND TESTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. ALL DISCREPANCIES FROM THE APPROVED PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR AND, IF NOT CORRECTED, TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
   C. WHERE FABRICATORS OF STRUCTURAL MEMBERS OR ASSEMBLIES OCCURS AT A FABRICATORS SHOP, SPECIAL INSPECTIONS SHALL OCCUR DURING FABRICATION UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTIONS.
2. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM DESIGNATED IN THIS STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK (CBC 1704.4).
3. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND TESTS, AND THE CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS OR TESTS, SHALL BE SUBMITTED BY THE OWNER OR THE OWNERS AUTHORIZED AGENT TO THE BUILDING OFFICIAL.
4. ADDITIONAL SUBMITTALS TO THE BUILDING OFFICIAL SHALL BE IN ACCORDANCE WITH CBC 1704.5.

GENERAL:

1. ALL CONSTRUCTION SHALL COMPLY WITH THE 2019 C.B.C. AND ALL APPLICABLE ORDINANCES.
2. FRAMING CONDITIONS NOT SPECIFICALLY SHOWN OR INDICATED SHALL BE FRAMED SIMILAR TO DETAILS SHOWN FOR THE RESPECTIVE MATERIALS OR CONDITIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS BEFORE STARTING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
4. WITHOUT EXCLUSION OF ANY REFERENCE IN THE CONSTRUCTION DOCUMENTS TO ANY RULE OR REGULATION, THE STRUCTURAL ENGINEER IS NOT ASSUMING ANY PROVISIONS OF SUPERVISION OF CONSTRUCTION METHODS OR PROCESSES.

DESIGN LOADS:

1. GRAVITY LOADS (CH. 3 & 4).
   ROOF LIVE LOAD - 20 psf
   ROOF DEAD LOAD (SLOPED) - 25 psf
   ROOF DEAD LOAD (FLAT) - 20 psf
   PV PANEL DESIGN LOAD - 4 psf
2. WIND LOADS (CH. 26 - 30).
   BASIC DESIGN WIND SPEED (V) - 135 psf
   RISK CATEGORY - III
   WIND EXPOSURE - C
3. SEISMIC LOADS (CH. II -15).
   RISK CATEGORY - III
   SEISMIC IMPORTANCE FACTOR - 1.5
   SITE CLASS - D (Default)
   SPECTRAL RESPONSE ACCELERATION PARAMETERS
   a. S_s - 1.952
   b. S_1 -

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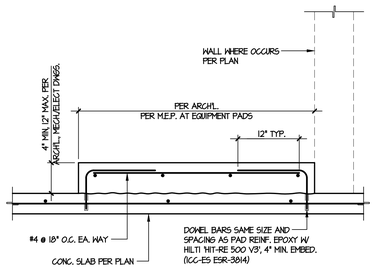
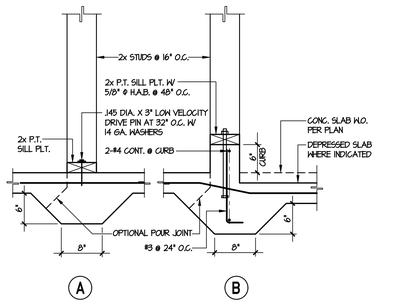


HOUSEKEEPING PAD DETAIL 17
SCALE: N.T.S.



TYPICAL NON-BEARING WALL FOOTING DETAIL 13
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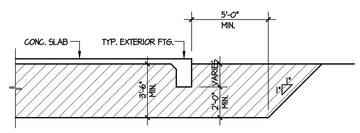

OVER EXCAVATION REQUIREMENTS 9
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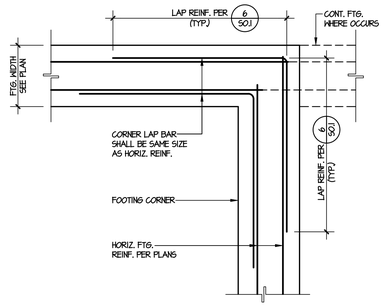
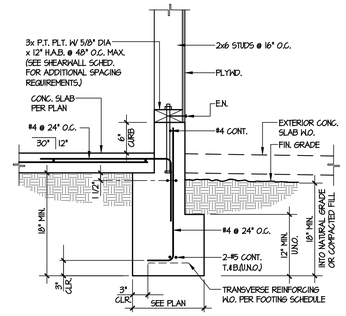


TYPICAL REINFORCING AT FOOTING CORNERS AND INTERSECTIONS 5
SCALE: N.T.S.



TYPICAL EXTERIOR BEARING WALL FOOTING DETAIL 1
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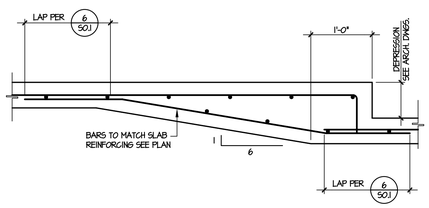
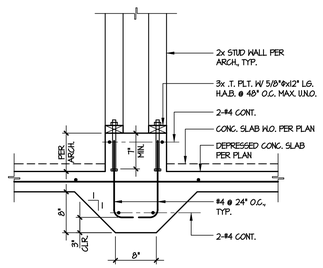


TYPICAL STEP IN SLAB 18
SCALE: N.T.S.

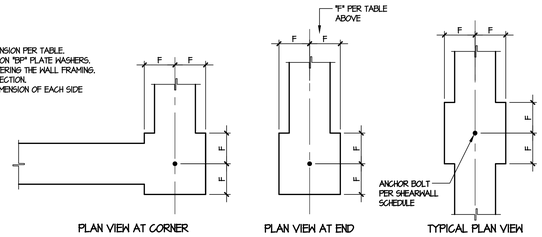


TYPICAL PLUMBING WALL TO CONCRETE CURB DETAIL 14
SCALE: N.T.S.

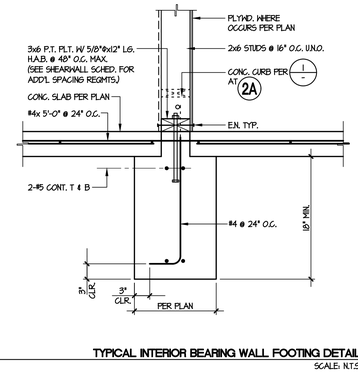
HD OR HDU HOLDOWN TABLE

MARK	SIMPSON "HD" IAPMO ER-143	SIMPSON "HDU" ICC ESR-2330	BOLTS TO POST (HD ONLY)	SO" DIM. (HD ONLY)	ANCHOR DIAM.	ANCHOR	MIN. EMBED. (de)	F	MIN. POST	LOAD (k) 100%	LOAD (k) 75 %	NUMBER OF SDS (HDU ONLY)	DETAIL
H2	-	HDU2	-	-	5/8"	PAB5	12"	10"	4x6	3.0	2.2	6	SEE DETAIL 'A' FOR SIMPSON HOLDOWN SEE DETAIL 'B' FOR NEW HOLDOWN
H4	-	HDU4	-	-	5/8"	PAB5	18"	10"	4x6	4.5	3.3	10	
H5	HD5B	HDU5	2- 3/4"	2" MIN.	5/8"	PAB5	18"	10"	4x6	4.9	3.6	14	
H7	HD7B	HDU8	3- 3/4"	2" MIN.	7/8"	PAB7	18"	12"	4x6	6.5	5.1	20	
H9	HD9B	HDU11	3- 1/8"	2 3/8" MIN.	7/8" ø HD9B/1" ø HDU11	PAB7/PAB8	18"	12"	6x6	9.5	7.1	30	
H12	HD12	HDU14	4- 1"	3 5/8" MIN.	1"	PAB8	24"	15"	6x8	14.2	10.6	36	
H19	HD19	-	5- 1"	3 5/8" MIN.	1 1/4"	PAB10	24"	23"	6x8	19.0	14.2	-	

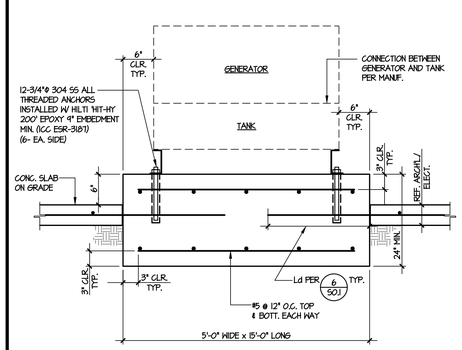
NOTES:
1. HOLDOWN SHALL BE TORQUED AS REQ'D BY MANUFACTURER.
2. 'PAB' DENOTES SIMPSON 'PAB' ANCHOR.
3. USE SIMPSON SDS 25212 WOOD SCREWS AT ALL 'HDU' APPLICATIONS
4. HEAVY'Y HEX NUT REQUIRED FOR HDU14
5. WIDEN FOOTING AS REQUIRED FOR HOLDOWN ANCHORS PER (C) AND "F" DIMENSION PER TABLE.
6. HOLDOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED SIMPSON "BP" PLATE WASHERS. HOLDOWNS SHALL BE FINGER TIGHT AND 1/2 WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING.
7. HOLDOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.
8. "F" IS A MIN. DIMENSION. IF SPECIFIED FOOTING WIDTH IS GREATER THAN "F" DIMENSION OF EACH SIDE OF THE HOLDOWN, THE LARGER FOOTING WIDTH SHALL GOVERN.



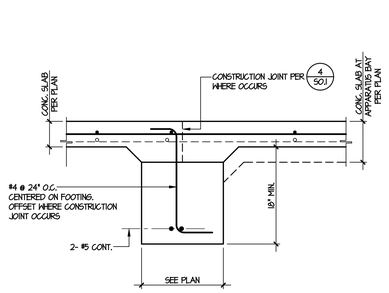
FOOTING AND STEMWALL REQUIREMENTS AT HOLD DOWN ANCHORS (C)
NOTE: WIDEN FOOTING AS REQ'D TO MEET MIN. WIDTH CRITERIA BASED ON "F", AS NECESSARY



TYPICAL INTERIOR BEARING WALL FOOTING DETAIL 2
SCALE: N.T.S.



EMERGENCY ELECTRIC GENERATOR 19
SCALE: N.T.S.



TYPICAL INTERIOR FOOTING DETAIL 15
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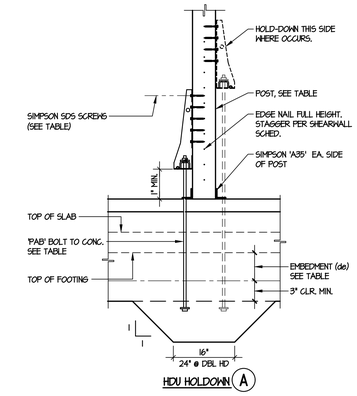

TYPICAL HOLDDOWN DETAIL 7
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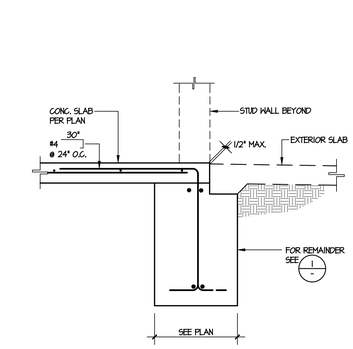
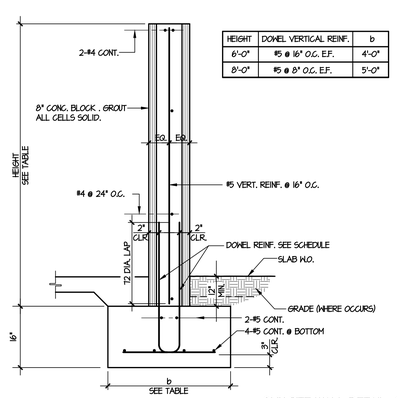
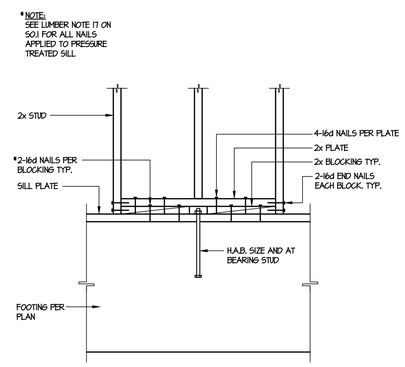


TYPICAL SLAB DETAIL AT STUD WALL OPENING 3
SCALE: N.T.S.



HEIGHT	DOWEL VERTICAL REINF.	b
6'-0"	#5 @ 16" O.C. E.F.	4'-0"
8'-0"	#5 @ 8" O.C. E.F.	5'-0"

CMU SITE WALL DETAIL 16
SCALE: N.T.S.



TYPICAL AT ANCHOR BOLT BELOW STUD 12
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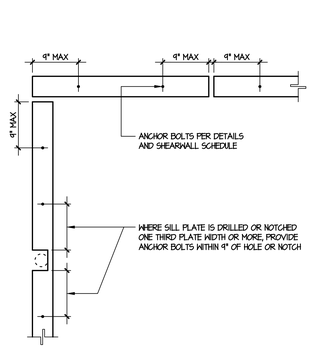

TYPICAL ANCHOR BOLT PLACEMENT AT SILL DETAIL 8
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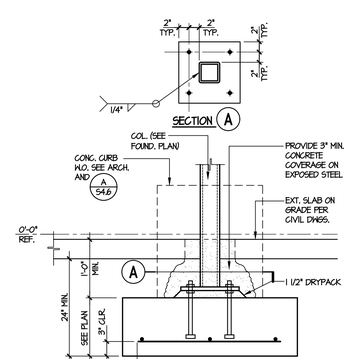

STEEL COLUMN TO PAD FOOTING 4
SCALE: N.T.S.

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RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLEY NEEDHAM
C-19064
Re-Sta 03/31/27
STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER
Rick Wayne Byrd
No. 53350
Exp. 3/31/26
STRUCTURAL
STATE OF CALIFORNIA

CONSULTANT
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1047 West Sixth Street, Suite A
Ontario, CA. 91762
M03026021.00
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miyamotointernational.com

NO	DATE	BY	DESCRIPTION
#			REVISIONS

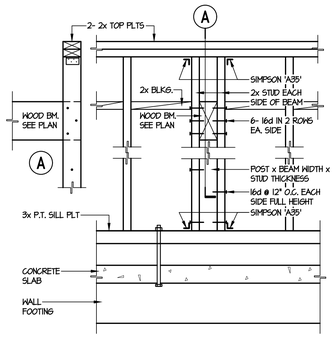
DRAWN:	JA	CHECKED:	RB
DATE:	05/11/2025	SCALE:	AS NOTED
PROJECT NUMBER:	W2100100AR		

FOUNDATION DETAILS

DRAWING NUMBER: S0.2

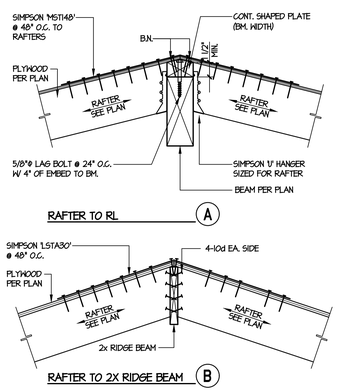
BID SET - 20250818

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

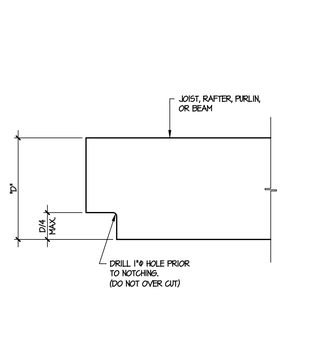


WOOD BEAM TO WALL DETAIL 19
SCALE: N.T.S.

DRAG DETAIL 19
SCALE: N.T.S.



TYPICAL RIDGE BEAM AND RIDGE BOARD 15
SCALE: N.T.S.



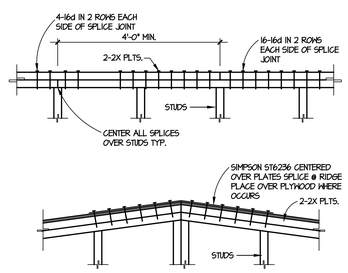
TYPICAL NOTCHING DETAIL 16
SCALE: N.T.S.

SHEARWALL SCHEDULE
STRUCTURAL 1

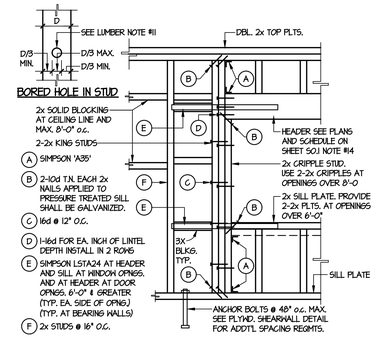
TYPE	NAILING		A.B. SPACING	ALLOWABLE SHEAR
	EDGE	FIELD		
A	10d @ 6" O.C.	10d @ 12" O.C.	42" O.C.	340#/FT.
B	10d @ 4" O.C.	10d @ 12" O.C.	28" O.C.	510#/FT.
C	10d @ 3" O.C. STAGG.	10d @ 12" O.C.	21" O.C.	665#/FT.
D	10d @ 2" O.C. STAGG.	10d @ 12" O.C.	16" O.C.	870#/FT.

A ALL PLYWOOD TO BE 1/2" STRUCTURAL 1 SEE NOTES ON S0.1
B PROVIDE 3x (MIN.) MEMBERS AT ALL ADJOINING PANEL EDGE AND SILLS. WHERE PLYWOOD OCCURS BOTH SIDES OFFSET VERTICAL PLYWOOD JOINTS.
C ANCHOR BOLTS TO BE 5/8"ø x12" MIN. SEE SHEARWALL SCHEDULE FOR SPACING. PROVIDE 2 BOLTS PER PANEL MIN. PROVIDE SIMPSON "BPS" 5/8-3 AT ALL ANCHOR BOLTS AT 4" NOMINAL WIDE SILL PLATES. PROVIDE SIMPSON "BPS" 5/8-6 AT ALL 6" NOMINAL WIDE SILL PLATES. A CUT WASHER SHALL BE UTILIZED BETWEEN THE NUT AND THE TOP OF THE SLOTTED WASHER. THE WASHER SHALL BE POSITIONED SUCH THAT THE EDGE OF THE PLATE WASHER IS WITHIN 1/2" OF THE SHEATHED EDGE OF THE SILL PLATE. WHERE PLYWOOD OCCURS EACH SIDE OF THE WALL, THE WASHER SHALL BE PLACED WITHIN 1/2" OF EACH FACE OF SILL PLATE.
D REDUCE SPACING BY 1/2 WHERE SHEARWALL OCCURS BOTH SIDES
E STAGGER NAILS FOR TYPE 'C' AND 'D' SHEARWALLS @ DOUBLE TOP PLATES
F 4x MIN. POST @ HOLD DOWN LOCATIONS. U.N.O. ON PLANS, DETAILS OR SECTIONS
G HOLD DOWN, SEE PLAN FOR TYPE AND 7/S03.2 FOR INSTALLATION
H 14 1/2" SQUARE MAX. OPENING. (STUDS SHALL NOT BE CUT UNLESS SPECIFICALLY DETAILED)
J PROVIDE SIMPSON 'LSTA36' ABOVE AND BELOW OPENINGS AT SHEARWALL TYPES 'C' AND 'D' AND ALL DOUBLE SIDED.

TYPICAL PLYWOOD SHEARWALL DETAIL 1
SCALE: N.T.S.



TYPICAL MINIMUM PLATE SPLICE DETAIL 6
SCALE: N.T.S.



TYPICAL STUD WALL FRAMING DETAIL 2
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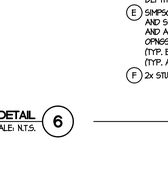
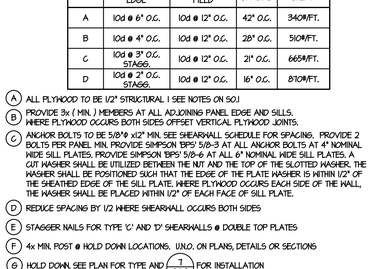


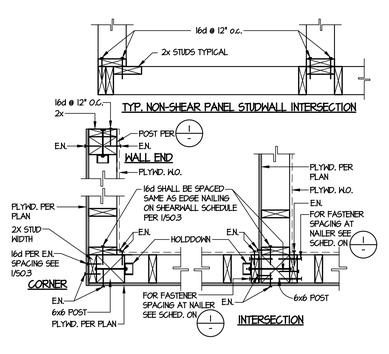
TYPICAL RAFTER TO STEEL BEAM DETAIL 11
SCALE: N.T.S.

TYPICAL BEAM TO STEEL COLUMN 12
SCALE: N.T.S.



TYPICAL LEDGER SPLICE DETAIL 7
SCALE: N.T.S.

TYP. PLYWOOD DIAPHRAGM SHEATHING DETAIL 3
SCALE: N.T.S.



TYPICAL SHEARWALL INTERSECTIONS 4
SCALE: N.T.S.

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SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLEY NEEDHAM
C-19064
to be 03/31/27
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
Rick Wayne Bell
No. S3350
Exp. 12/31/26
STRUCTURAL
STATE OF CALIFORNIA

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1047 West Sixth Street, Suite A
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miyamotointernational.com

NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN:	JA	CHECKED:	RB
DATE:	05/11/2025	SCALE:	AS NOTED
PROJECT NUMBER:	W2100100AR		

WOOD FRAMING DETAILS

DRAWING NUMBER: S0.3

BID SET_20250818

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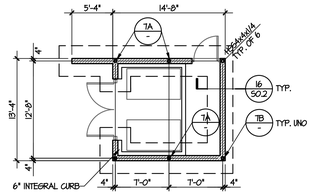
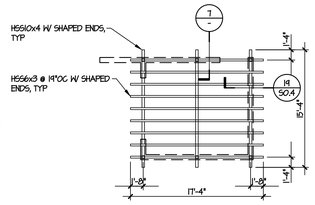
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

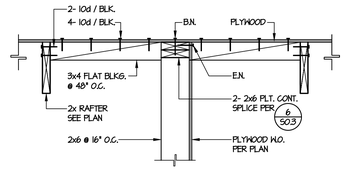


FOUNDATION PLAN (A)



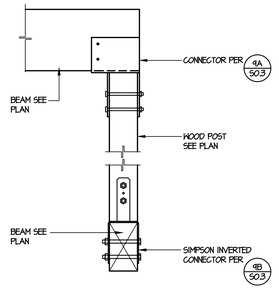
FRAMING PLAN (B)

ROOF PLAN (C)

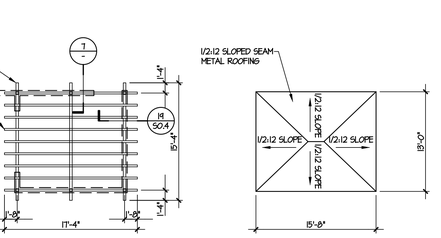


TYPICAL RAFTER PARALLEL TO WALL (1)
SCALE: N.T.S.

TRASH ENCLOSURE PLANS (5)
SCALE: N.T.S.



TYP. KING POST TO BEAM (6)
SCALE: N.T.S.



LEDGER TO STUD WALL DETAIL (2)
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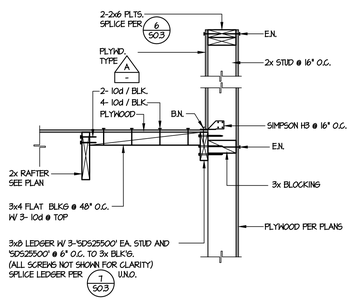

TYPICAL NON-BEARING WALL TO RAFTERS (3)
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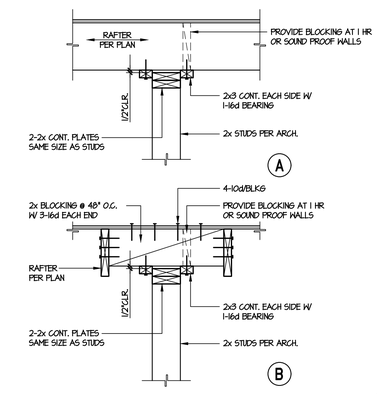
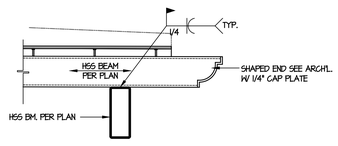
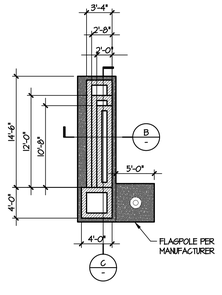
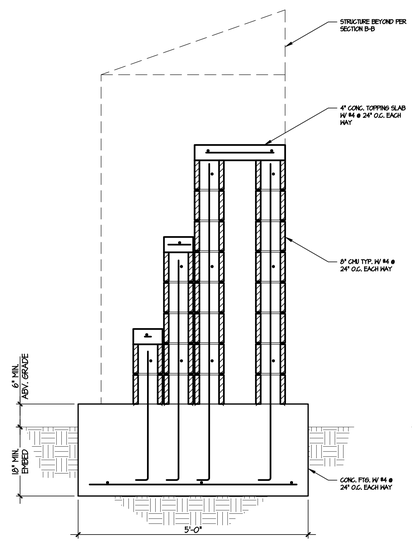




DETAIL (11)
SCALE: N.T.S.



PLAN (A)



SECTION (B)

DETAIL (7)
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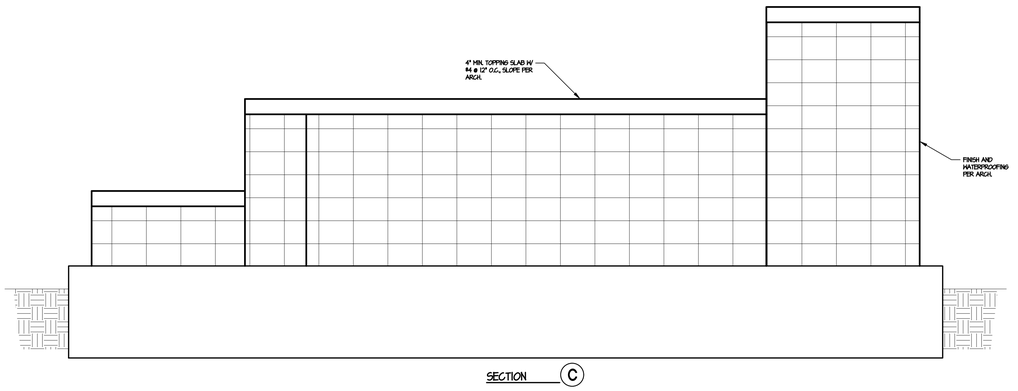

SECTION (C)

FLAGPOLE SIGN (8)
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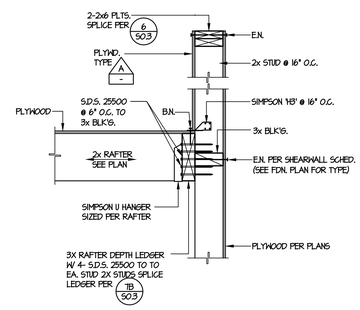

LEDGER TO STUD WALL DETAIL (4)
SCALE: N.T.S.

PBK
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FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
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C-19064
Te'de 03/31/27
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No. S3250
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CONSULTANT
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1047 West Sixth Street, Suite A
Ontario, CA. 91762
M0329001.00
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miyamotointernational.com

NO	DATE	BY	DESCRIPTION
1			REVISIONS

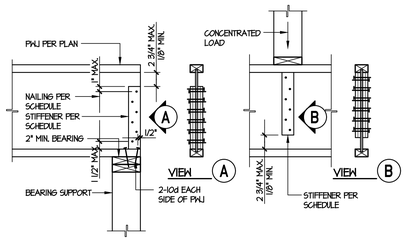
DRAWN: JA	CHECKED: RB
DATE: 05/11/2025	SCALE: AS NOTED
PROJECT NUMBER: W2100100AR	

WOOD FRAMING DETAILS

DRAWING NUMBER: S0.4

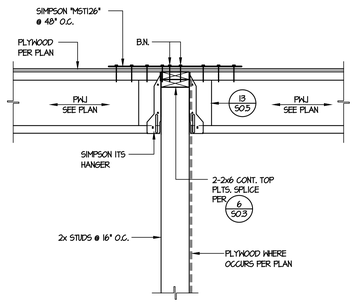
BID SET_20250818

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

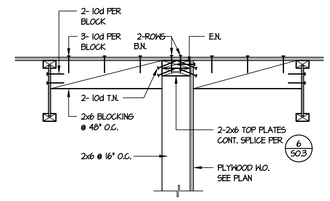


PWJ JOIST	STIFFENER MATERIAL EACH SIDE	STIFFENER NAILING
PWJ (2 1/2" FLANGE)	1"x2 5/16" CDX PLYWOOD	8d x 2 1/2" @ 2" O.C. MAX.

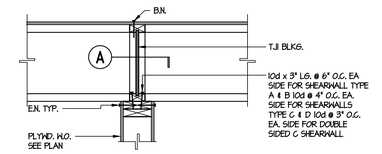
TYPICAL PWJ WEB STIFFENER DETAIL 13
SCALE: N.T.S.

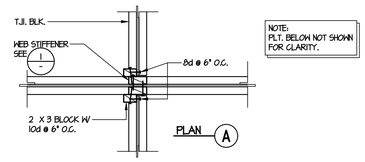


RAFTER PERPENDICULAR TO WALL 5
SCALE: N.T.S.

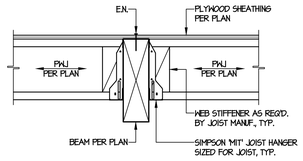


RAFTER PARALLEL TO WALL 1
SCALE: N.T.S.





TYPICAL PWJ SHEAR BLOCKING 14
SCALE: N.T.S.



TYPICAL PWJ JOIST TO WOOD BEAM 10
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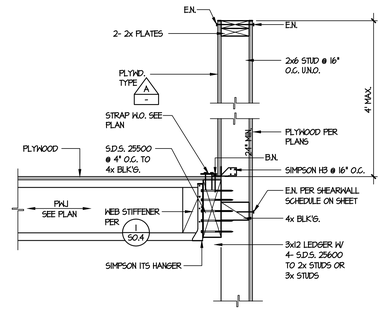

PWJ PERPENDICULAR TO LEDGER 6
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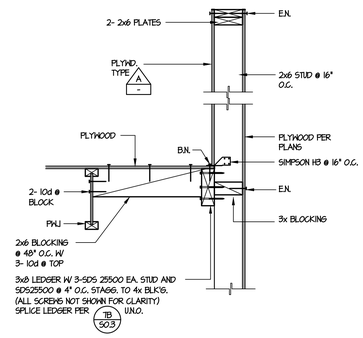

PWJ PARALLEL TO LEDGER AT WALL 2
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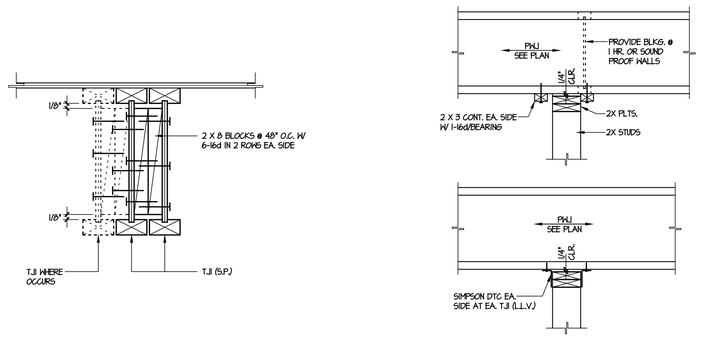
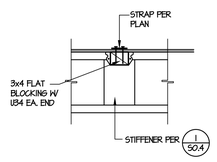


ALTERNATE

TYPICAL MULTIPLE PWJ 7
SCALE: N.T.S.

TYPICAL NON-BEARING WALL PERPENDICULAR TO JOIST 3
SCALE: N.T.S.



STRAP PERPENDICULAR TO PJW 12
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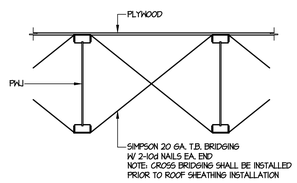

NOTE:
1. ONE ROW OF BRIDGING OR BLOCKING SHALL BE INSTALLED AT THE MIDSPAN IF ANY OF THE FOLLOWING CONDITIONS EXIST:
   a.) THE SPAN OF THE JOIST EXCEEDS 16 FEET
   b.) THE PWJ DEPTH IS 16 INCHES OR GREATER.
2. ONE ROW OF BRIDGING OR BLOCKING SHALL BE INSTALLED AT THE MIDSPAN AT ALL FLOOR JOISTS.
3. BRIDGING REQUIREMENT MAY BE AS STATED ON RED-BUILT I JOIST SHOP DRAWINGS, INCLUDING REMOVAL OF JOIST BRIDGING REQUIREMENT IF JUSTIFIED BY ENGINEERED SHOP DRAWINGS.

TYPICAL PWJ CROSS BRIDGING 8
SCALE: N.T.S.

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RAY W. STEPP
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NO	DATE	BY	DESCRIPTION
2			REVISIONS

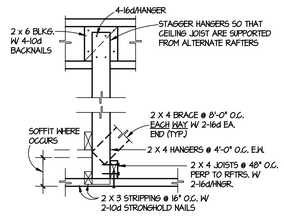
DRAWN: JA	CHECKED: RB
DATE: 05/11/2025	SCALE: AS NOTED
PROJECT NUMBER: W2100100AR	

WOOD FRAMING DETAILS

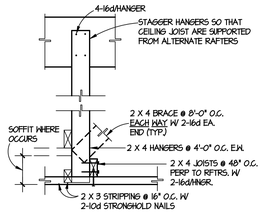
DRAWING NUMBER: S0.5

BID SET_20250818

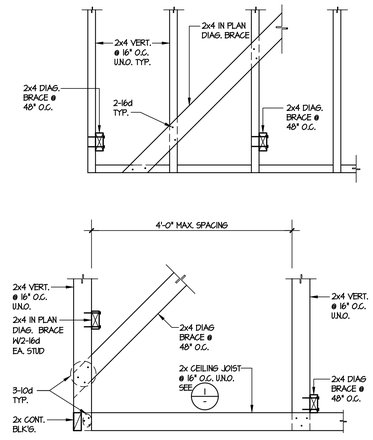
REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

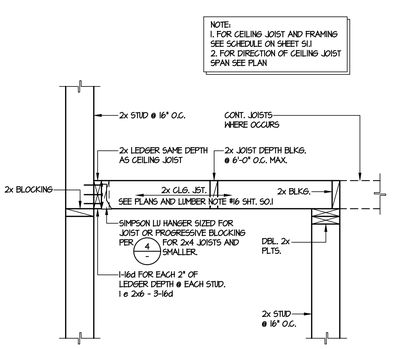


WOOD HANGER TO TJI



WOOD HANGER TO 2x RAFTERS





TYPICAL CEILING JOISTS FRAMING DETAIL 1
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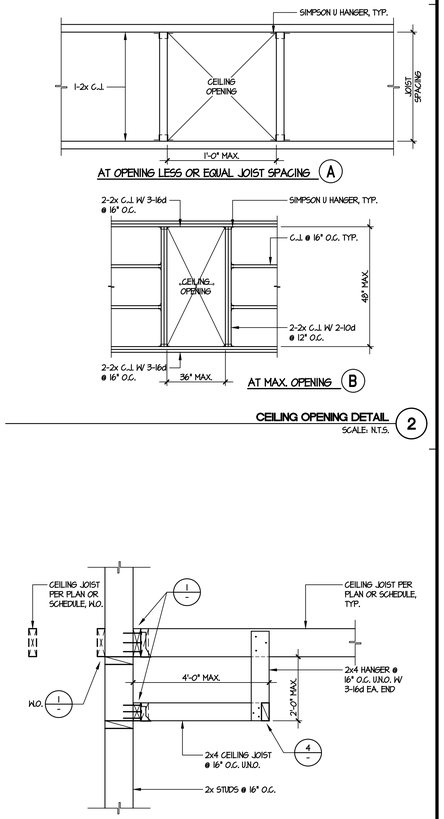
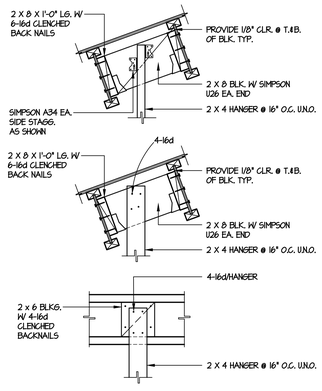


CEILING OPENING DETAIL 2
SCALE: N.T.S.

TYPICAL SUSPENDED CEILING DETAIL • PWJ FRAMING 14
SCALE: N.T.S.



TYPICAL SUSPENDED CEILING DETAIL • 2x FRAMING 10
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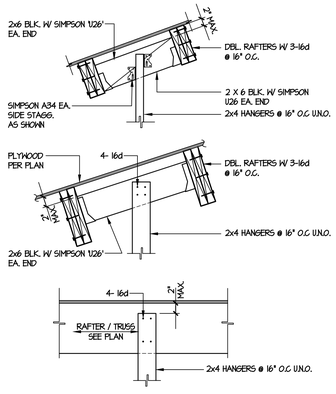

TYPICAL HANGER TO PWJ JOIST 15
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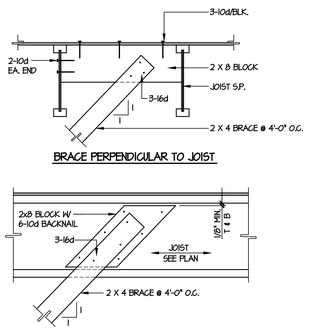
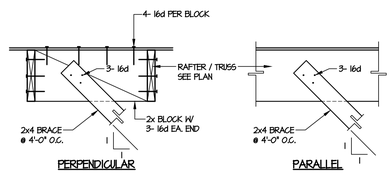


BRACE PERPENDICULAR TO JOIST

BRACE PARALLEL TO JOIST

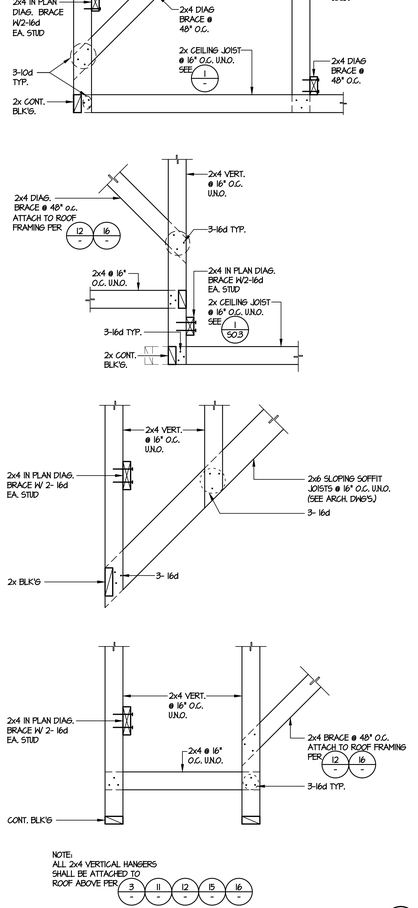
TYPICAL HANGER TO WOOD JOIST 11
SCALE: N.T.S.



PERPENDICULAR PARALLEL

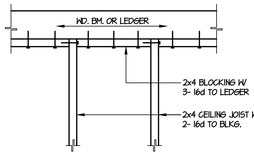
TYPICAL WALL BRACE TO PWJ DETAIL 16
SCALE: N.T.S.

TYPICAL WALL BRACE TO WOOD JOIST 12
SCALE: N.T.S.



TYPICAL SOFFIT FRAMING 8
SCALE: N.T.S.

SOFFIT FRAMING DETAIL 3
SCALE: N.T.S.



TYPICAL PROGRESSIVE BLOCKING 4
SCALE: N.T.S.

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NO	DATE	BY	DESCRIPTION
1			REVISIONS

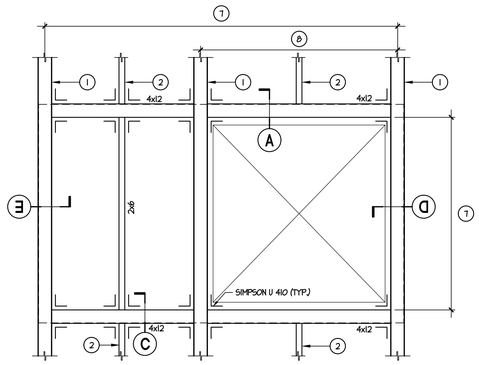
DRAWN:	JA	CHECKED:	RB
DATE:	05/11/2025	SCALE:	AS NOTED
PROJECT NUMBER:	W2100100AR		

TYPICAL CEILING FRAMING DETAILS

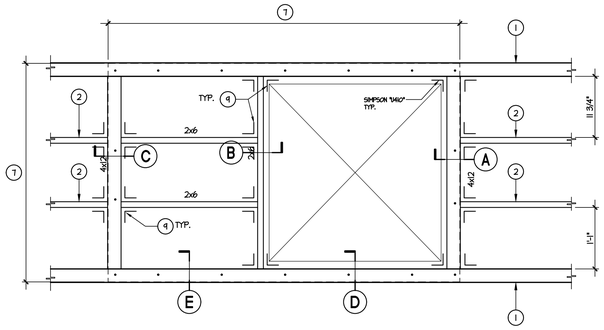
DRAWING NUMBER: S0.6

BID SET_20250818

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA



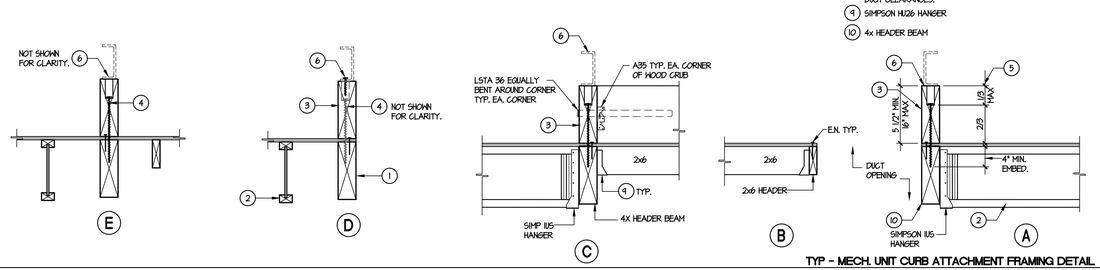
UNIT PERPENDICULAR WITH FRAMING



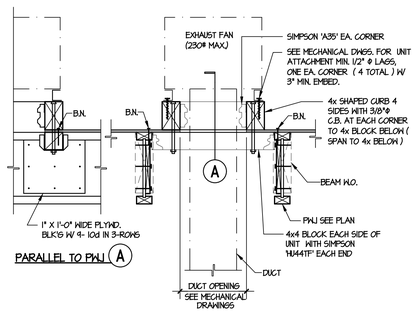
UNIT PARALLEL WITH FRAMING

MECHANICAL UNIT ATTACHED								
UNIT	WEIGHT (INCL. CURBS)	ISOLATED UNIT Y/N	APPROX. UNIT SIZE		(6) 1/2"ø LAGS MU CURB TO HOOD CURB		(4) 1/2" ø LAGS SUPD CURB TO STRUCTURE	
			LENGTH	WIDTH	LONGSIDE	SHORTSIDE	LONGSIDE	SHORTSIDE
AC1 -AC3	1060	YES	75"	47"	5 LAGS 2" EMBED	3 LAGS 2" EMBED	ONE EA CORNER	

(1) HOOD BEAM SEE PLAN.
(2) ROOF JOIST SEE PLAN.
(3) 4x CURB SHAPED TO LEVEL AS REQ'D AT SLOPING. USE 3 1/2" x RED.LAM AS REQ'D AT TALLER UNIT CURBS.
(4) 1/2"ø LAGS x LENGTH REQ'D. MIN EMBEDMENT 4" INTO HOOD FRAMING BELOW. DAP INTO SHAPED CURB TO FACILITATE INSTALL.
(5) MAXIMUM DAP LENGTH IS 1/3 THE CURB HEIGHT.
(6) UNIT CURB ATTACHED W/ 1/2"ø X4" LAGS SPACED PER TABLE.
(7) CONTRACTOR SHALL COORDINATE BEAM AND HEADER LAYOUT WITH THE UNIT CURB ANCHOR LOCATIONS.
(8) CONTRACTOR COORDINATE INTERIOR BEAM LOCATION WITH DUCT CLEARANCES.
(9) SIMPSON HU26 HANGER
(10) 4x HEADER BEAM



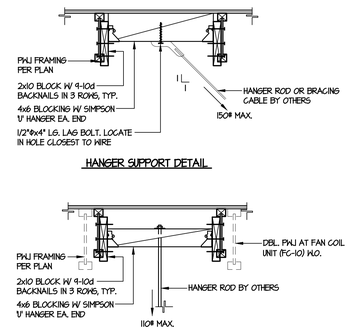
TYP - MECH. UNIT CURB ATTACHMENT FRAMING DETAIL 2
SCALE: N.T.S.



PARALLEL TO PM.1 (A)

PERPENDICULAR TO PM.1

EXHAUST FAN FRAMING AT WOOD ROOF CONSTRUCTION 11
SCALE: N.T.S.



HANGER SUPPORT DETAIL

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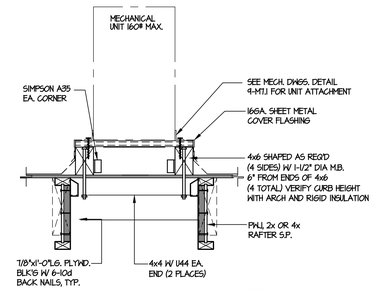
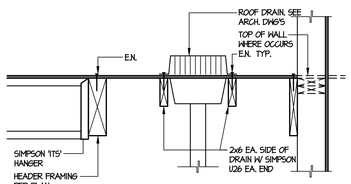
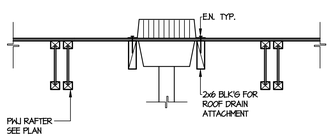
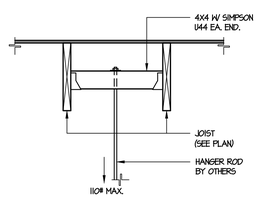




SECTION PERPENDICULAR TO RAFTER

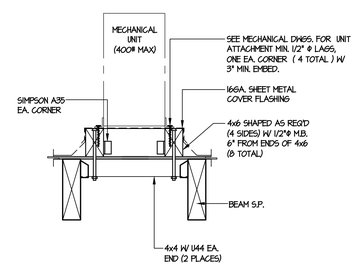


TYPICAL ROOF DRAIN FRAMING 12
SCALE: N.T.S.



HANGER SUPPORT DETAIL

MECHANICAL DETAILS 8
SCALE: N.T.S.



TYPICAL CONDENSING UNIT PLATFORM 4
SCALE: N.T.S.

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FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT — KELLEY NEEDHAM C-19064 — Ie.ba. 03/31/27 — STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER — Rick Wayne Bell — No. 53350 — Exp. 12/31/26 — STRUCTURAL — STATE OF CALIFORNIA

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NO	DATE	BY	DESCRIPTION
			REVISIONS

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DATE:	05/11/2025	SCALE:	AS NOTED
PROJECT NUMBER:	W2100100AR		

MECHANICAL / PLUMBING FRAMING DETAILS

DRAWING NUMBER: S0.7

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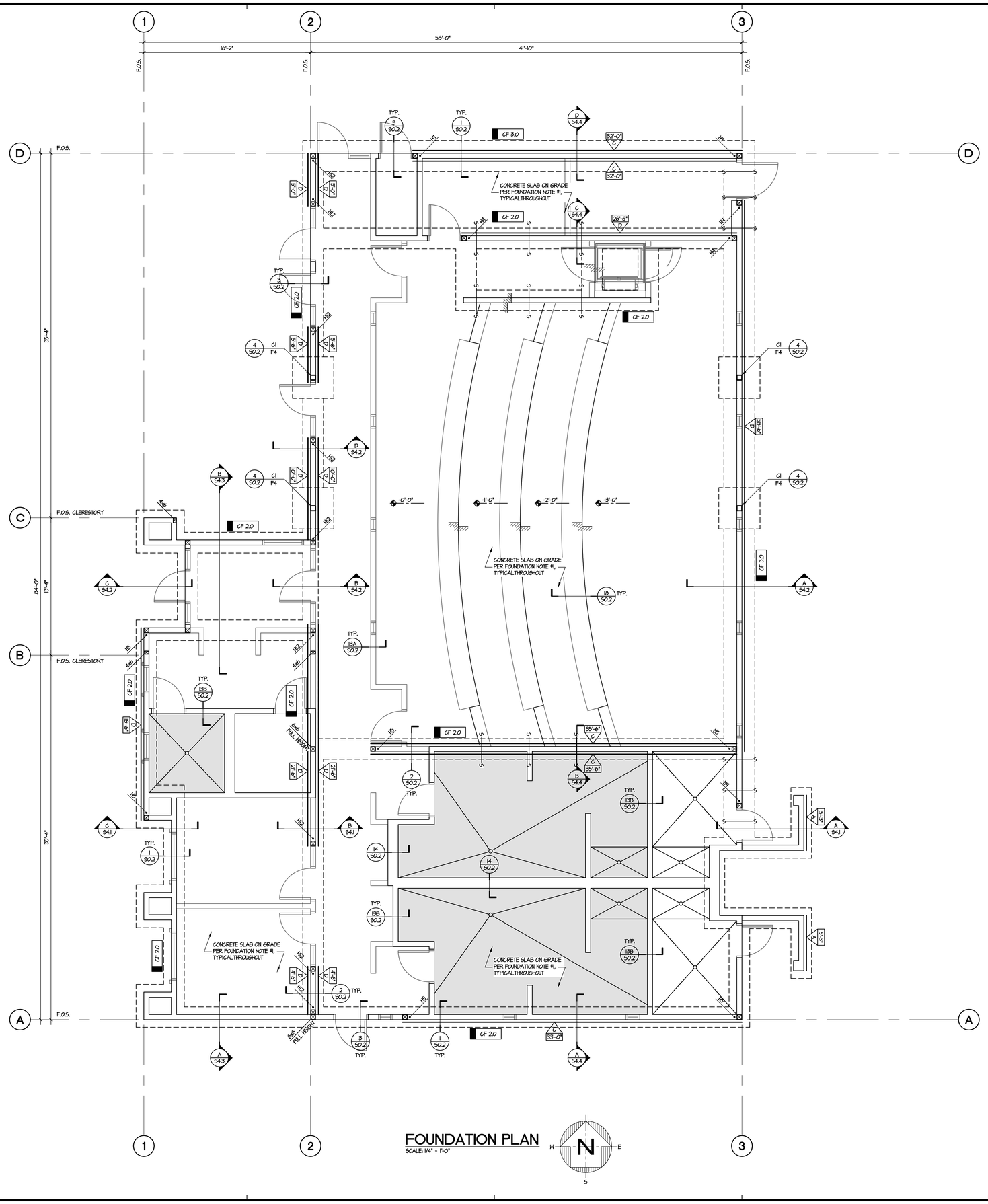

FOUNDATION PLAN

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

FOUNDATION PLAN NOTES

1. 5" THK. CONC. SLAB W/ #4 @ 18" O.C. E.W. @ MID. SLAB OVER 15 MIL. VAPOR BARRIER OVER 2" CLEAN SAND OVER 4" AGGREGATE BASE PER SPECIFICATIONS AND DETAILS.
2. ALL EXTERIOR WALLS AND PARAPETS WHICH ARE NOT ALREADY INDICATED AS SHEAR WALLS SHALL RECEIVE PLYWOOD AND NAILING PER SHEAR WALL TYPE 'A'
   - DENOTES SHEARWALL TYPE SEE (1/503)
   - DENOTES MIN. SHEARWALL LENGTH.

   (NOTE: PLYWD. SHALL EXTEND FULL LENGTH OF WALL AT INTERIOR SHEAR WALLS AS REQ'D FOR FLUSH FINISH)
3. SEE ARCH. DWG'S FOR ALL DIMENSIONS NOT SHOWN AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS
4. TYPICAL FOUNDATION FORMING DETAILS PER (1/501)
5. STEP FOOTINGS PER TYPICAL STEP FOOTING DETAIL (2/501)
6. FRAMING AT OPENINGS PER TYP. STUD WALL FRAMING DETAIL (2/503)
7. H(9) DENOTES HOLD DOWN AND HOLD DOWN SIZE. FOR TYPICAL HOLD DOWN DETAIL SEE (7/502) WIDEN FOOTING AS REQD. BY (7/502) IN THE VICINITY OF H.D. BOLTS
8. STEP FOOTINGS AT PLUMBING LINES PER (3/501)
9. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE
10. PRIOR TO REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOIL ENGINEER SHALL INSPECT AND APPROVE THE FOUNDATION EXCAVATIONS.
11. HOLD DOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.
12. VERIFY ALL CURB HEIGHTS WITH ARCHITECTURAL DRAWINGS.
13. SHADED AREA INDICATES EXTENTS OF SLAB DEPRESSION PER PLAN, VERIFY WITH ARCHIT. DRAWINGS.
14. 4" HIGH CONC. HOUSE KEEPING PAD, SEE (11/502)

CONTINUOUS FOOTING SCHEDULE

MARK	WIDTH	THICK	REINFORCEMENT
CF2.0	2'-0"	2'-0"	2- #5 TOP & BOTTOM
CF3.0	3'-0"	2'-0"	2- #5 TOP & 4- #5 BOTT. W/ #4 TRANSVERSE @ 24" O.C. BOTT.

PAD FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT
F4	4'-0" x 4'-0" x 1'-6"	4- #5 EACH WAY

COLUMN SCHEDULE

MARK	COLUMN SIZE	BASE PLT.	WELD SIZE	SIZE & NO. OF A.B. U.N.O.
C1	HSS 4x4x1/4	3/4" THICK	3/16"	4- 3/4" x 12" LONG

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FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
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Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT — KELLEY NEEDHAM C-19064 — Sched. 03/31/27 — STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER — RCE No. 92150 — Exp. 12/31/26 — STRUCTURAL — STATE OF CALIFORNIA

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PROJECT NUMBER: W2100100AR	

FOUNDATION PLAN

DRAWING NUMBER: S1.1

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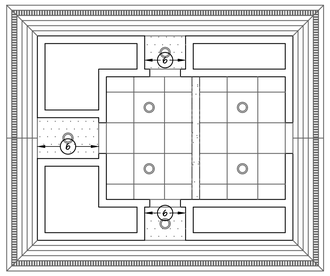

CLERESTORY CEILING PLAN

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

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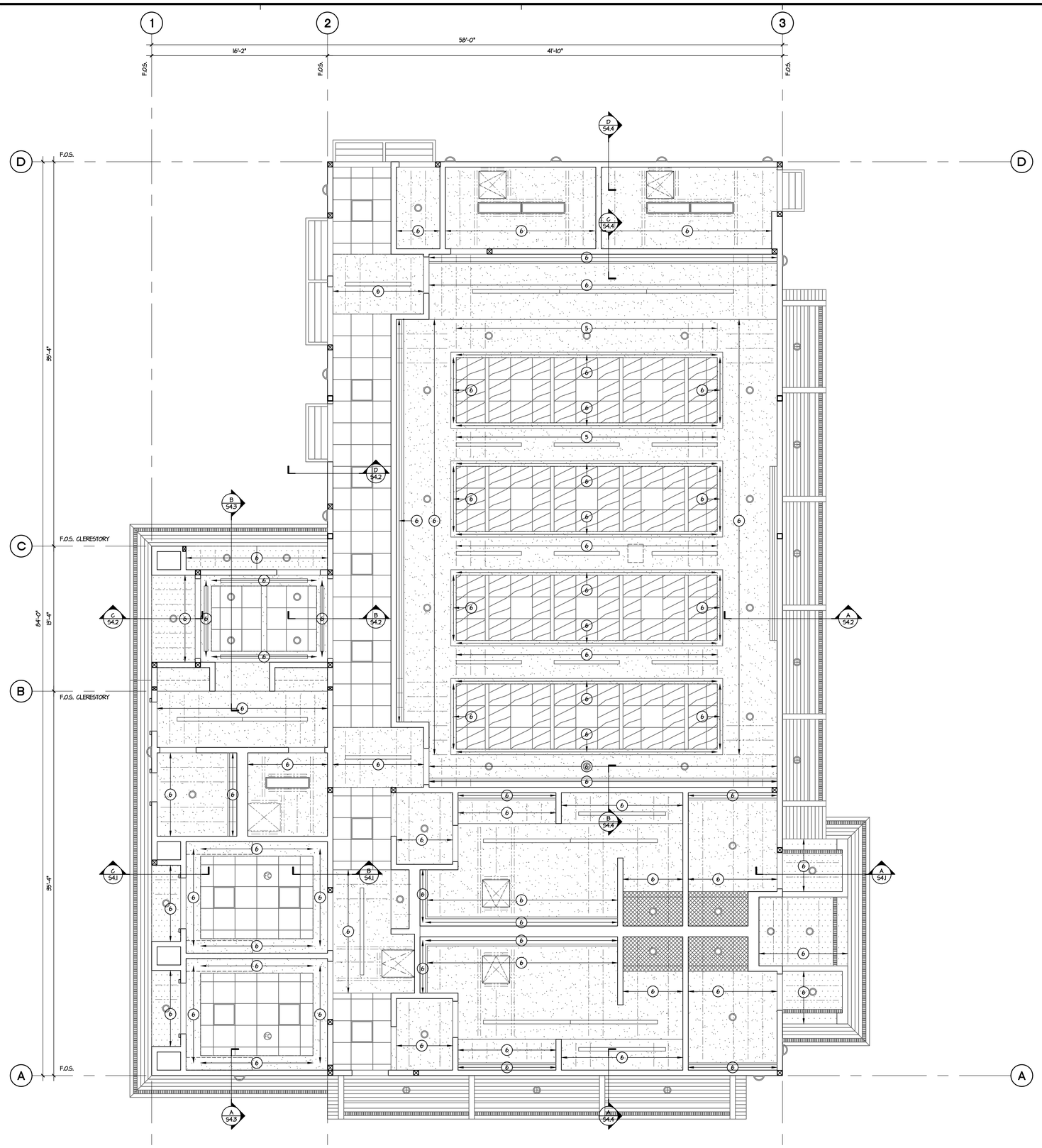

FIRST FLOOR CEILING PLAN

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

(8) CEILING FRAMING PLAN NOTES

1. SEE (3/50.6) AND (8/50.6) FOR TYPICAL SOFFIT FRAMING.
2. SEE (1/50.6) FOR TYPICAL CEILING JOIST FRAMING DETAIL.
3. SEE (2/50.6) FOR TYPICAL CEILING OPENING DETAIL.
4. SEE (10/50.6) AND (14/50.6) FOR TYPICAL SUSPENDED CEILING DETAIL.
5. SEE ARCH. DWGS. FOR ADDITIONAL INFO.
6. 2x4 @ 16" O.C.
7. 2x6 @ 16" O.C.
8. 2x8 @ 16" O.C.

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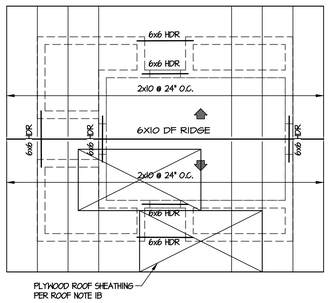
DATE: 05/11/2025	SCALE: AS NOTED
PROJECT NUMBER: W2100100AR	

FIRST FLOOR CEILING PLAN

DRAWING NUMBER: S2.1

BID SET_20250818



CLERESTORY ROOF PLAN

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

REVIEWED
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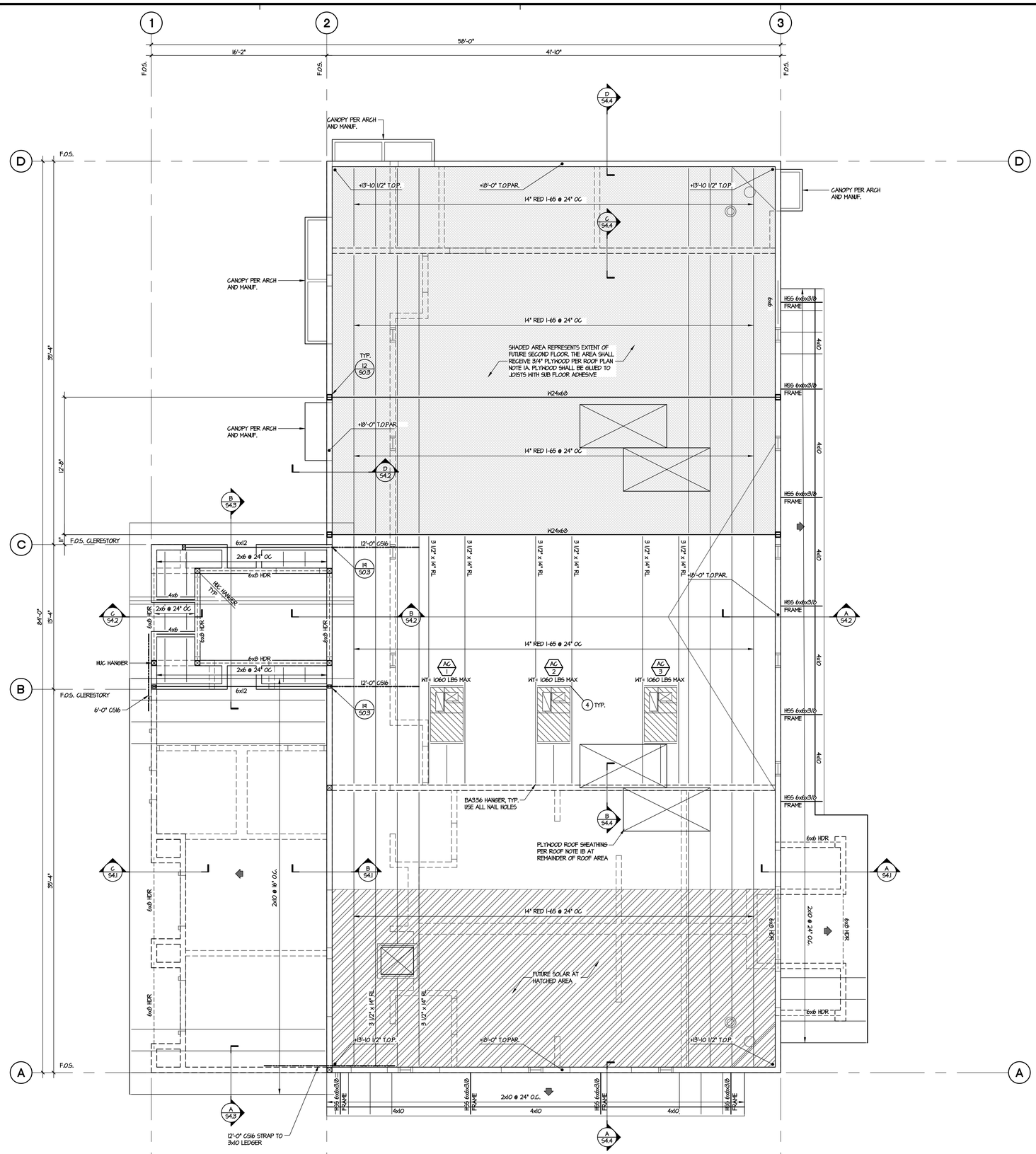

ROOF FRAMING PLAN

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

ROOF FRAMING PLAN NOTES

1A. 3/4" STRUCT. I-PLYWOOD W/
10d @ 4" O.C. B.N.
10d @ 6" O.C. E.N.
10d @ 12" O.C. F.N.
BLOCK ALL EDGES TYP. SEE 3/503

1B. 5/8" STRUCT. I-PLYWOOD W/
10d @ 4" O.C. B.N.
10d @ 6" O.C. E.N.
10d @ 12" O.C. F.N.
BLOCK ALL EDGES TYP. SEE 3/503

2. ALL RAFTERS AND BEAMS DESIGNATED AS (STRUT) SHALL RECEIVE 2 ROWS (E.N.) EDGE NAILING AT TOP STAGGERED.
3. ALL (T.O.P.) TOP OF PLYWOOD HEIGHTS AND (T.O.PAR.) TOP OF PARAPET HEIGHTS ARE FROM (REF. 0'-0").
4. FOR MECHANICAL UNIT FRAMING AND DETAILS, REFER TO THE FOLLOWING DETAILS, CONDENSING UNIT 4/501, EXHAUST FAN II/501, MECH. UNIT 2/501

THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS HAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.

5. FOR ALL HEADER SIZES NOT IDENTIFIED SEE LUMBER NOTE 15 ON SHEET S0.1
6. ALL LEDGERS SHALL BE SPLICED PER 7A/503 U.N.O.
7. SHADED PORTIONS INDICATE CALIFORNIA FRAMING
8. ALL EXTERIOR WALLS AND PARAPETS WHICH ARE NOT ALREADY INDICATED AS SHEAR WALLS SHALL RECEIVE PLYWOOD AND NAILING PER SHEAR WALL TYPE 'A' 1/503
9. NO CUTTING OR NOTCHING OF PWJ FLANGES IS PERMITTED.
10. RED-I PREFABRICATED WOOD I-JOIST ARE IDENTIFIED BY A STAMP THAT INCLUDES THE PRODUCT DESIGNATION, EVALUATION REPORT NUMBER (ICC-ES ESR-2994), MANUFACTURER'S NAME (REDBUILT) OR LOGO, PLANT NUMBER, PRODUCTION DATE, AND THE NAME OR LOGO OF THE INSPECTION AGENCY (PFS CORPORATION). CALCULATIONS AND SHOP DRAWINGS, STAMPED BY A LICENSED CALIFORNIA CIVIL OR STRUCTURAL ENGINEER SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO THE ENGINEER OF RECORD PRIOR TO SUBMITTAL TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL.
11. SEE ARCH'L. DWGS FOR ALL DIMENSIONS NOT SHOWN AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS
12. FRAMING AT OPENINGS PER TYP. STUD WALL FRAMING DETAIL 2/503

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Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
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C-19064
to be 03/31/27
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REGISTERED PROFESSIONAL ENGINEER
Rick W. Stone
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Exp. 12/31/26
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PROJECT NUMBER:	W2100100AR		

ROOF FRAMING PLAN

DRAWING NUMBER: S3.1

BID SET_20250818

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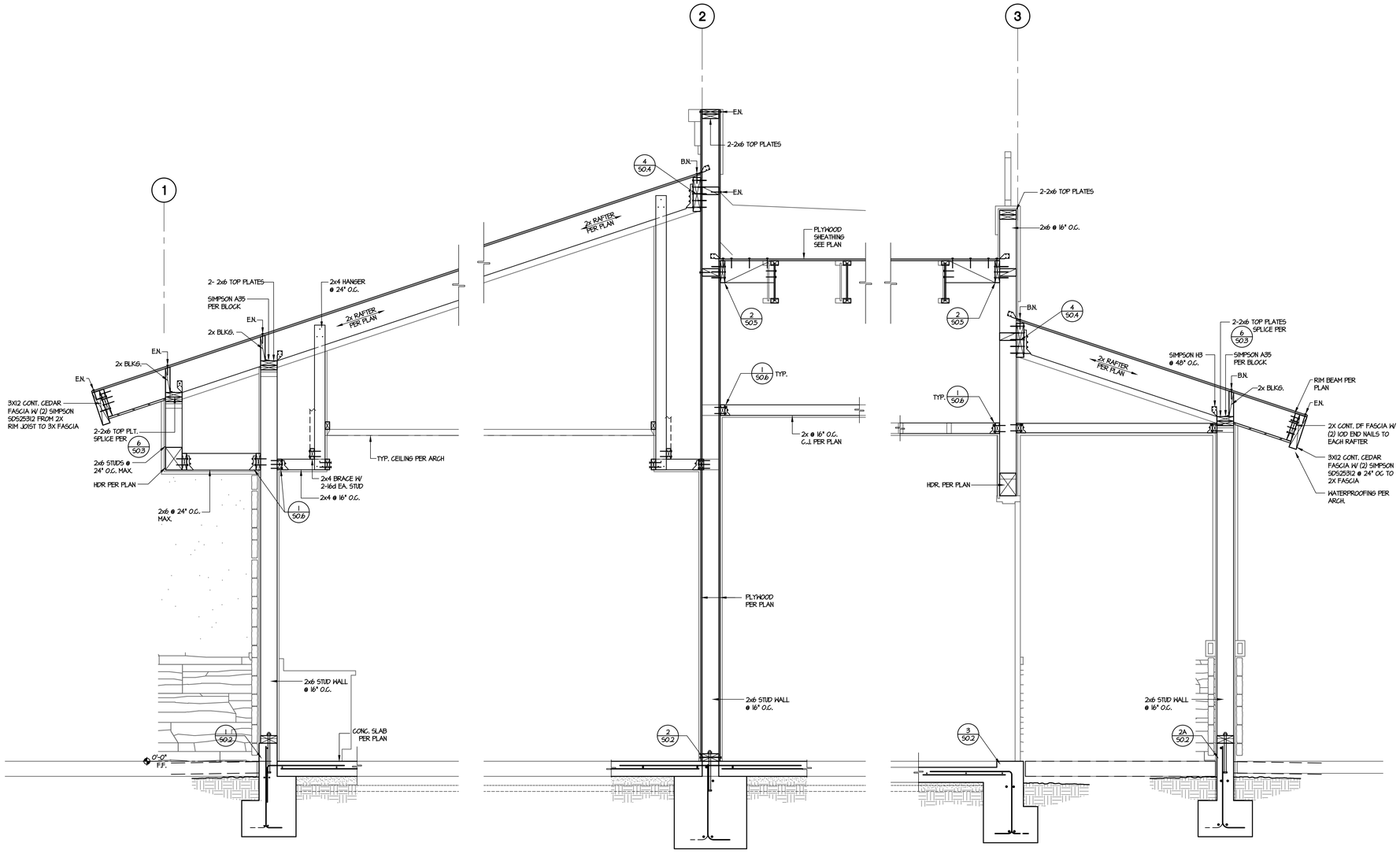

SECTION C
SCALE: 3/4"=1'-0"

SECTION B
SCALE: 3/4"=1'-0"

SECTION A
SCALE: 3/4"=1'-0"

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DATE:	05/11/2025	SCALE:	AS NOTED
PROJECT NUMBER:	W2100100AR		

WALL SECTIONS

DRAWING NUMBER: S4.1

BID SET_20250910

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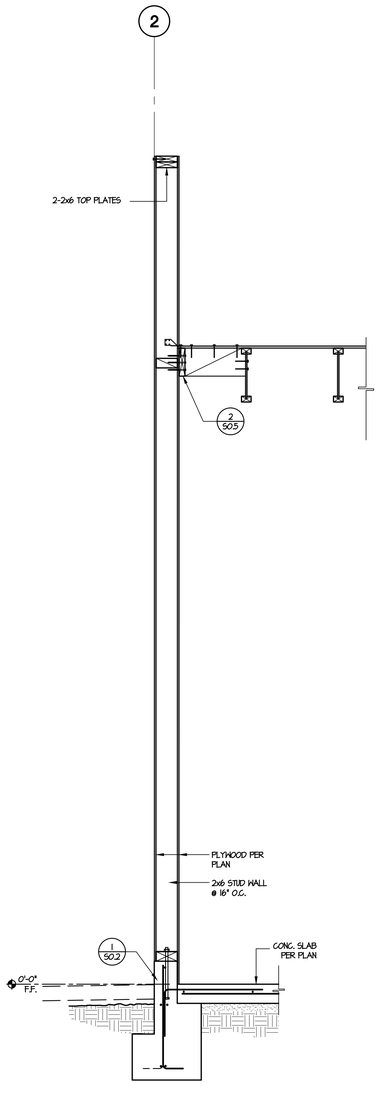

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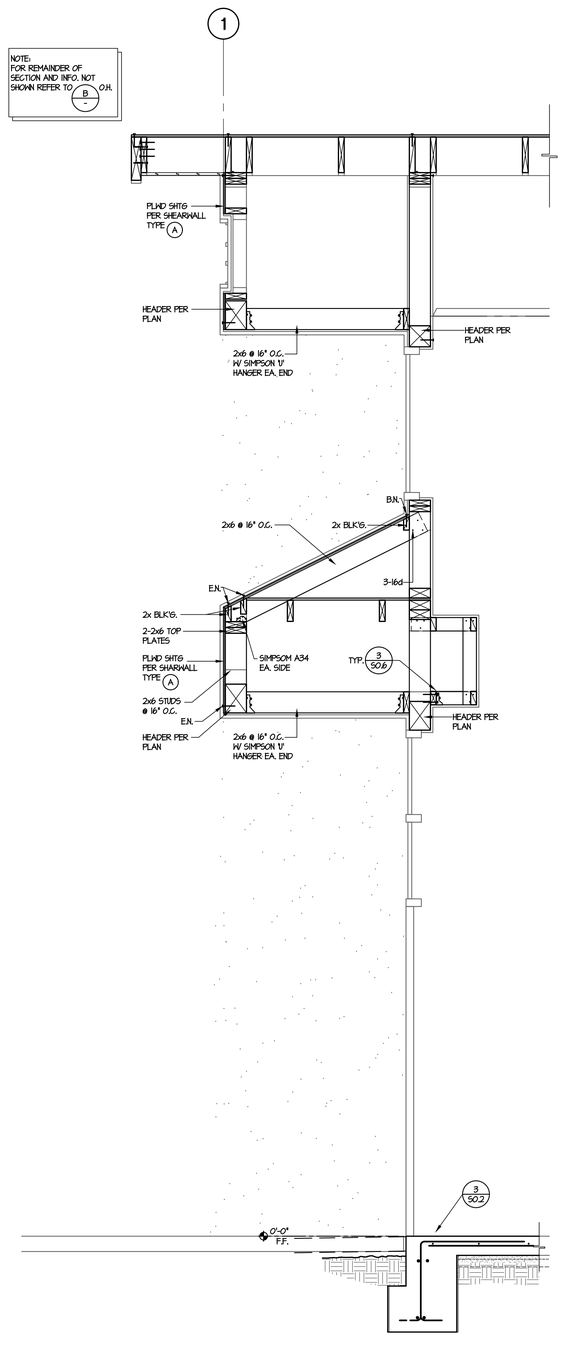
SCALE: 3/4"=1'-0"



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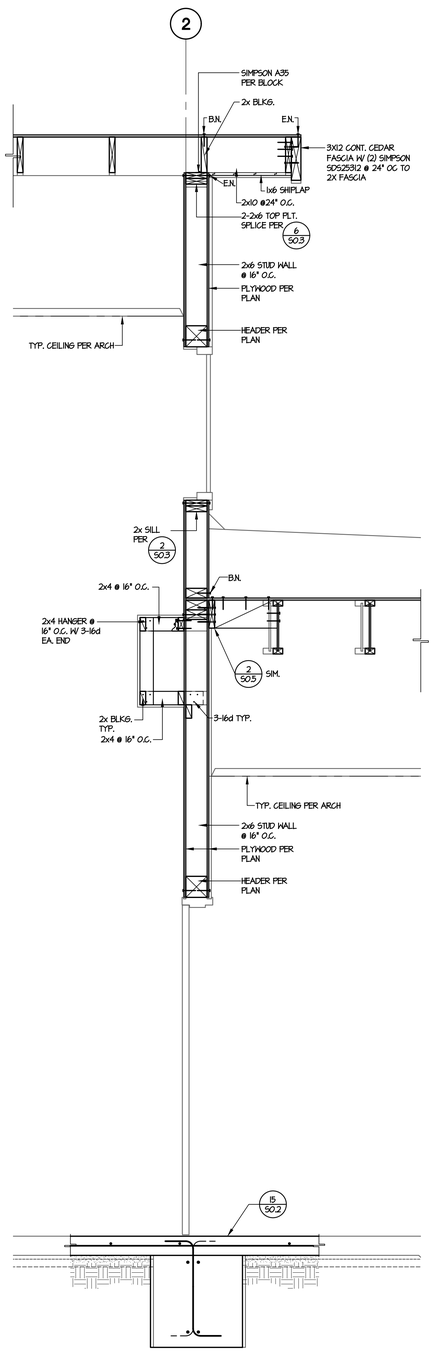

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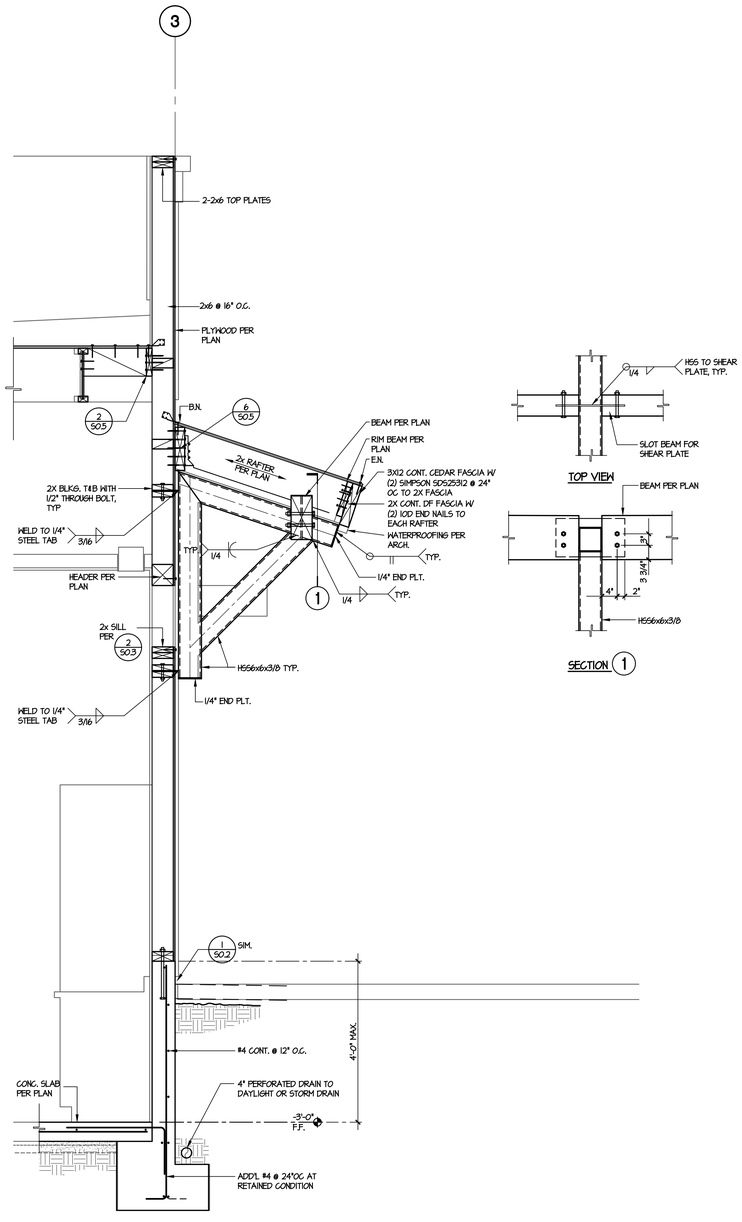

SECTION A
SCALE: 3/4"=1'-0"

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Exp. 3/31/26
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WALL SECTIONS

DRAWING NUMBER: S4.2

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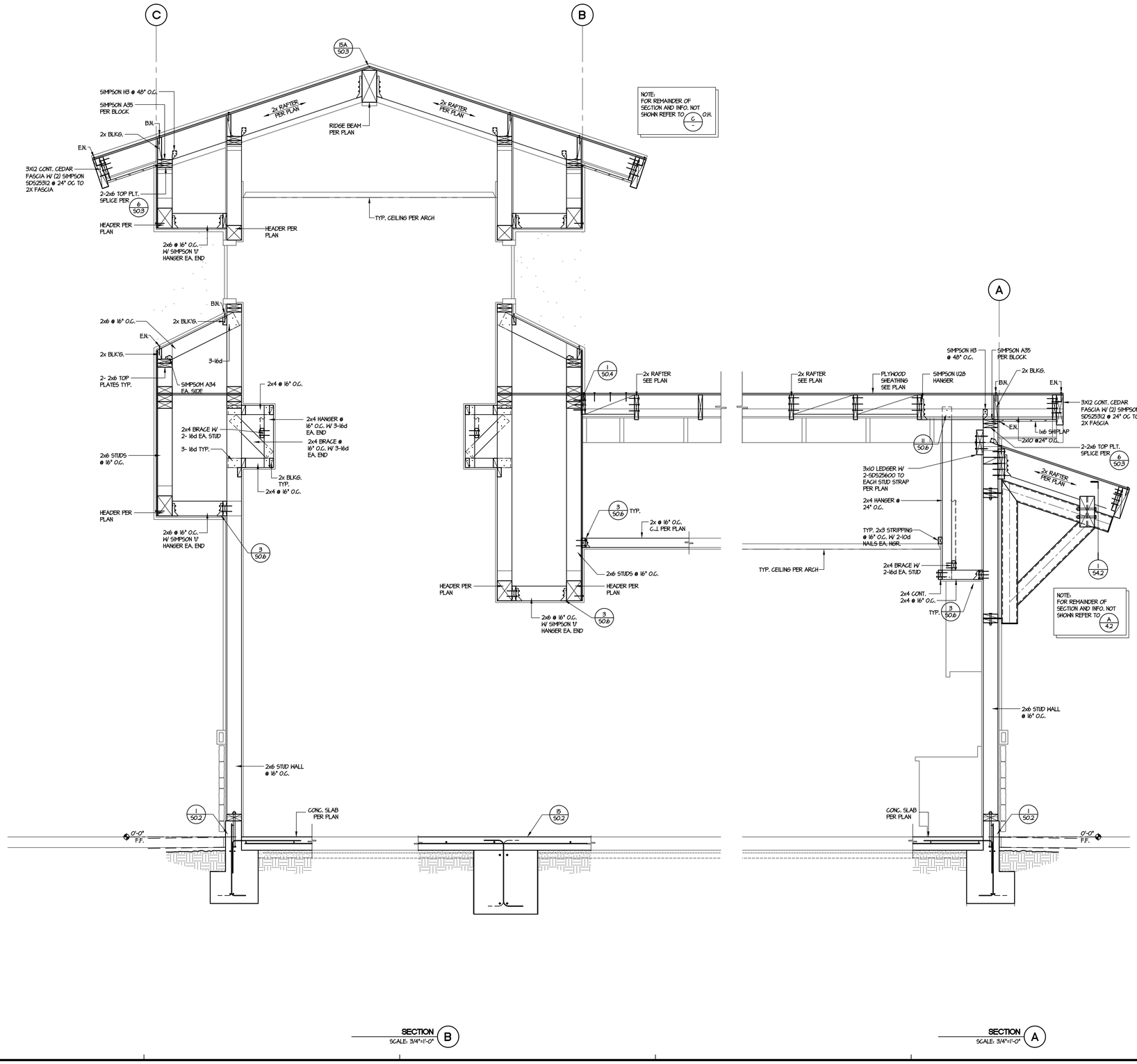

SECTION B
SCALE: 3/4"=1'-0"

SECTION A
SCALE: 3/4"=1'-0"

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WALL SECTIONS

DRAWING NUMBER: S4.3

BID SET_20250808

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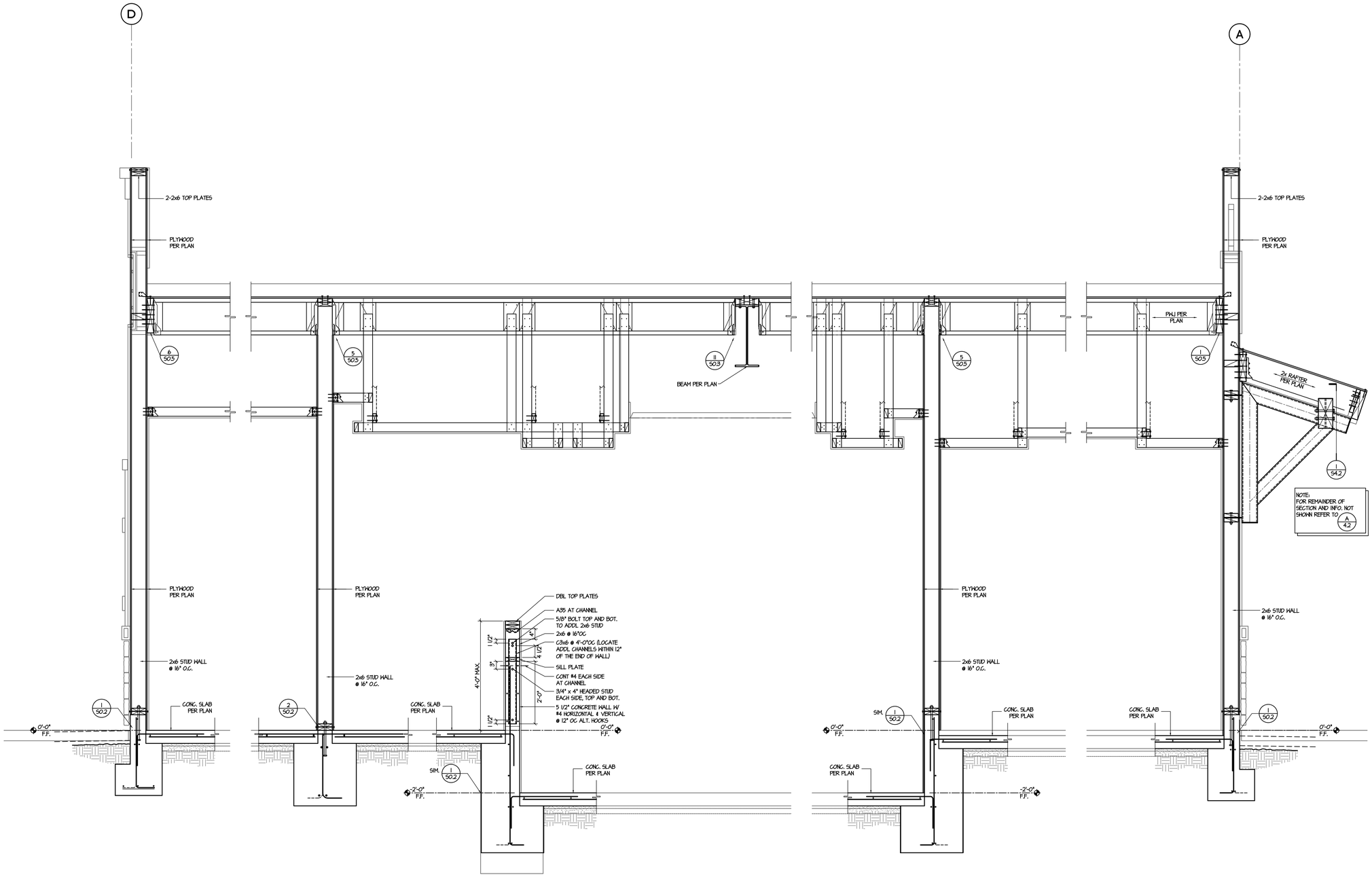
CITY OF FONTANA



SECTION D
SCALE: 3/4"=1'-0"

SECTION C
SCALE: 3/4"=1'-0"

SECTION B
SCALE: 3/4"=1'-0"

SECTION A
SCALE: 3/4"=1'-0"

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WALL SECTIONS

DRAWING NUMBER: S4.4

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CITY OF FONTANA

CALIFORNIA GREEN BUILDING STANDARDS NOTES

ENTIRE INSTALLATION SHALL COMPLY WITH THE 2022 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE INCLUDING THE FOLLOWING APPLICABLE MANDATORY MEASURES:

1. 5.504.1.3 – PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, CONTRACTOR SHALL USE MERV 8 MINIMUM RETURN AIR FILTERS. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.
2. 5.504.3 – CONTRACTOR SHALL COVER ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY DURING STORAGE AND CONSTRUCTION AND UNTIL FINAL STARTUP.
3. 5.504.5.3 – MERV 13 FILTERS ARE REQUIRED FOR HVAC SYSTEMS SERVING REGULARLY OCCUPIED AREAS AND AS INDICATED IN THESE PLANS.
4. 5.504.7 – OUTDOOR SMOKING AREAS SHALL BE MINIMUM 25'–0" FROM ALL BUILDING ENTRIES, OUTDOOR AIR INTAKES, AND OPERABLE WINDOWS.
5. 5.505.1 – INSTALLATION SHALL COMPLY WITH CBC SECTION 1203 AND CHAPTER 14 FOR INDOOR MOISTURE CONTROL.
6. 5.506.2 – DEMAND CONTROL VENTILATION REQUIRED FOR ALL DENSELY OCCUPIED SPACES PER 2022 CALIFORNIA ENERGY CODE REQUIREMENTS.
7. 5.508.1 – HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CFCS OR HALONS.

LEGEND

SYMBOL	ABBR.	DESCRIPTION
	–	SUPPLY AIR RISER
	–	RETURN AIR RISER
	–	EXHAUST AIR RISER
	SAG	SUPPLY AIR GRILLE
	RAG	RETURN AIR GRILLE
	EAG	EXHAUST AIR GRILLE
	SWR	SIDEWALL REGISTER
	(L)	LINED DUCTWORK
	–	FLEXIBLE CONNECTION
	FC	FLEXIBLE CONNECTION
	–	DEMO DUCT (SEE PLAN)
	MVD	MANUAL VOLUME DAMPER
	BDD	BACKDRAFT DAMPER
S/F	SFD	SMOKE / FIRE DAMPER
F	FD	FIRE DAMPER
	DL	DOOR LOUVER
U.C.	UC	UNDERCUT DOOR 3/4"
RS	RS	REFRIGERANT SUCTION LINE
RL	RL	REFRIGERANT LIQUID LINE
CD	CD	CONDENSATE DRAIN
	S.D.	SMOKE DETECTOR
	P.O.C.	POINT OF CONNECTION
T	T–STAT	THERMOSTAT
H	H	HUMIDISTAT
TS	TS	TEMPERATURE SENSOR
OS	OS	OVERRIDE SWITCH
PD	PD	PRESSURE DIFFERENTIAL SWITCH
S	S	SWITCH
	O.C.	ON CENTER
	I.D.	INSIDE DIAMETER
	O.D.	OUTSIDE DIAMETER
	W/	WITH
	S/M	SHEET METAL
	S/S	STAINLESS STEEL
	G.C.	GENERAL CONTRACTOR
	VTR	VENT THRU ROOF
	OBD	OPPOSED BLADE DAMPER
	FSC	FAN SPEED CONTROL
E	E	ITEMS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AS SPECIFIED ON THE ELECTRICAL CONTRACT DOCUMENTS
M	M	ITEMS FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AS SPECIFIED ON THE MECHANICAL CONTRACT DOCUMENTS
EM	EM	ITEMS FURNISHED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
ME	ME	ITEMS FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
	CBD	COUNTER–BALANCE DAMPER
	D.S.	FAN SPEED CONTROL
DS	FSC	DOOR SWITCH

GENERAL NOTES

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 CALIFORNIA MECHANICAL CODE, 2022 CALIFORNIA BUILDING CODE, AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING 2022 CALIFORNIA ENERGY CONSERVATION STANDARDS DIVISION T-24.
2. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID - NO EXCEPTIONS.
3. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTIVE CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.
4. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHER-PROOFED AND PAINTED TO MATCH, COORDINATE WITH ARCHITECT PRIOR TO PAINTING.
5. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH AND BE CONSIDERED TO BE PART OF A SEPARATE AND COMPLETE MECHANICAL SPECIFICATION.
6. ALL DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE.
7. PRIOR TO OCCUPANCY, THE ENTIRE H.V.A.C. SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH (AABC) ASSOCIATED AIR BALANCE COUNCIL STANDARDS BY AN INDEPENDANT AIR BALANCE CONTRACTOR. CERTIFICATION SHALL BE PROVIDED BY THE CONTRACTOR FOR AIR AND HYDRONIC AS APPLICABLE. SYSTEMS SHALL BE BALANCED AS INDICATED ON PLANS INCLUDING FRESH AIR VENTILATION. WHERE THERE IS A CONFLICT WITH THE MECHANICAL PLANS, THE AIR BALANCE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO BALANCING OF SYSTEM. IF NOT THE AIR BALANCE CONTRACTOR SHALL BEAR ALL COSTS INCURRED FOR WORK THAT MUST BE RE-BALANCED DUE TO CONFLICTS ON CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE THREE COPIES OF THE AIR BALANCE REPORT TO THE ENGINEER FOR APPROVAL.
8. FOR INACCESSIBLE AREAS THE CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, AND CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING THAT THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE AS FOLLOWS:

   1) HAND ACCESS: 12"x12"

   2) BODY ACCESS: 30"x30" MIN. WHERE A LARGER ACCESS SIZE IS REQUIRED DUE TO INSTALLATION CONSTRAINTS, THE CONTRACTOR SHALL DO SO AT NO ADDITIONAL COST AND SHALL NOTIFY THE ARCHITECT AND ENGINEER OF DEVIATIONS PRIOR TO INSTALLATION.
9. COORDINATE THE LOCATION OF ALL ROOF OPENINGS AND THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT WITH THE STRUCTURAL AND ARCHITECTURAL PLANS PRIOR TO ANY INSTALLATION.
10. PLATFORMS, CURBS, AND FLASHINGS FOR MECHANICAL EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS. UNLESS NOTED OTHERWISE WHERE THERE IS A CONFLICT WITH THE MECHANICAL PLANS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND INSTALLTION.
11. ALL EQUIPMENT, ACCESSORIES, AND RELATED PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
12. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE.
13. PROVIDE MERV 13 FILTERS FOR ALL AIR CONDITIONING UNITS. SEE EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR TYPE. SIZES SHALL BE AS RECOMMENDED BY THE MANUFACTURER, UNLESS OTHERWISE SPECIFIED.
14. AIR FILTERS SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED. PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.
15. ALL EQUIPMENT WITH MOVING PARTS SHALL BE PROVIDED WITH FLEXIBLE DUCT AND PIPE CONNECTIONS.
16. ALL EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES. SEE PLANS AND SPECIFICATIONS FOR IDENTIFICATION STANDARDS.
17. ALL HVAC EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION TO COMPLY WITH LATEST EFFICIENCY STANDARDS.
18. AC UNITS PROVIDED WITH ECONOMY CYCLE DAMPERS SHALL HAVE DAMPERS SET UP TO CLOSE AUTOMATICALLY ON FAN SHUTDOWN.
19. PROVIDE MANUAL VOLUME DAMPERS AND BACKDRAFT DAMPERS FOR FRESH AIR INTAKES ON ALL AIR HANDLING EQUIPMENT AND EXHAUST FANS SERVING CONDITIONED SPACES. EXCEPTION: EQUIPMENT WITH FACTORY ECONOMIZERS.
20. ALL FRESH AIR INTAKES SHALL MEET CODE REQUIRED CLEARANCES FROM EXHAUST, FLUE, FUEL BURNING APPLIANCE AND PLUMBING VENT OUTLETS. FOR GAS/ELECTRIC AIR CONDITIONING UNITS WHERE THE CODE REQUIRED CLEARANCES ARE NOT MET, A FACTORY FLUE GAS DEFLECTOR AND EXTENSION SHALL BE USED TO MINIMIZE THESE CLEARANCES. CONTRACTOR SHALL DETERMINE LOCATIONS WHERE REQUIRED PRIOR TO BID. THIS SHALL BE PROVIDED AT NO ADDITIONAL COST.
21. ALL AIR HANDLING EQUIPMENT SERVING CONDITIONED SPACES SHALL PROVIDE CONTINUOUS FRESH AIR TO SPACES IN OCCUPIED MODE.
22. CONTRACTOR SHALL VERIFY ALL CLEARANCES AND AVAILIABLE SPACE FOR DUCTWORK PRIOR TO ORDERING AND/OR FABRICATING MATERIAL.
23. CONTRACTOR TO SUBMIT ALL EQUIPMENT, DUCTWORK, AIR DISTRIBUTION DEVICES, AND OTHER ACCESSORIES TO THE ENGINEER FOR APPROVAL PRIOR TO ANY ORDERING OF SUCH ITEMS.
24. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITHIN 45 DAYS OF AWARD OF CONTRACT. SEE 230000 SPECIFICATIONS FOR REQUIREMENTS. ALL CONFLICTS BETWEEN VARIOUS TRADE SHOP DRAWINGS SHALL BE REPORTED TO THE CITY, ARCHITECT, AND ENGINEER OF RECORD. FAILURE TO REPORT CONFLICTS SHALL RESULT IN REJECTION OF RELATED CLAIMS FOR REWORK, EXTRA WORK, AND TIME FOR EXTENSIONS.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR COMMISSIONING OF EQUIPMENT AS STIPULATED ON MECH-1-C FORM ON PLANS UNLESS NOTED OTHERWISE.
26. CONTROL SCHEMATICS ARE FOR SEQUENCE ONLY. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ALL ELECTRICAL DEVICES REQUIRED.
27. ALL LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT. ALL LINE VOLTAGE CONDUIT AND WIRING, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE ELECTRICAL DRAWINGS OR SPECIFIED IN THE ELECTRICAL SECTION OF THE SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF ALL GOVERNING BODIES HAVING JURISDICTION THEREOF.
28. ALL LOW VOLTAGE CONDUIT AND WIRING AS APPLICABLE, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR AS INDICATED ON THE MECHANICAL DRAWINGS OR SPECIFIED IN THE MECHANICAL SECTION OF THE SPECIFICATIONS.

   A) ALL LOW VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT.

   B) WHERE THE CONTROLS CONTRACTOR IS RETAINED BY THE OWNER, THEY SHALL BE RESPONSIBLE FOR THE FOLLOWING:

   1) FURNISH AND INSTALL ALL DEVICES, WIRING, AND TERMINATIONS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.

   2) COORDINATE ALL WORK AND REQUIREMENTS WITH OTHER TRADES INCLUDING GENERAL, MECHANICAL, AND ELECTRICAL CONTRACTORS PRIOR TO BID.

   3) CONTRACTOR SHALL FOLLOW ALL SUBMITTAL REQUIREMENTS PER DRAWINGS AND SPECIFICATIONS.
29. CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING AIR CONDITIONING EQUIPMENT WITH THRU-THE-BASE POWER, CONTROL, AND GAS CONNECTIONS. VERIFY ALL CONNECTION LOCATIONS WITH UNIT MANUFACTURER AND COORDINATE WITH OTHER TRADES AS NECESSARY.
30. ELECTRICAL CONTRACTOR SHALL PROVIDE REQUIRED RELAY ACCESSORIES FOR CONNECTION OF 120 VOLT 1 PHASE VENTILATION EQUIPMENT TO 277 VOLT 1 PHASE LIGHTING AS APPLICABLE. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH COORDINATION PRIOR TO BID.
31. WHERE HVAC CONTROL WIRING IS REQUIRED BETWEEN BUILDINGS, PROVIDE UNDERGROUND CONDUIT WITH PULL STRING(S) FURNISHED AND INSTALLED BY ELECTRICAL FOR THE ENERGY MANAGEMENT SYSTEM WIRING TERMINATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT AND WIRING TERMINATIONS FOR BETWEEN BUILDINGS.
32. ALL THERMOSTATS SHALL HAVE LOCKABLE COVERS (WHERE INDICATED ON PLANS) AND SHALL BE OF THE ELECTRONIC, PROGRAMMABLE, AUTOMATIC CHANGEOVER TYPE TO SEQUENCE HEATING OR COOLING. SET POINT RANGE SHALL BE 10 DEGREES F. BETWEEN FULL HEATING AND COOLING. THEY SHALL HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70 DEGREES F., AND COOLING AT A TEMPERATURE NOT LESS THAN 78 DEGREES F. ADJUSTABLE TEMPERATURE DIFFERENTIAL SHALL BE 1- 1/2 DEGREES F. CONTROL LIMITS SHALL BE FROM 55 DEGREES F. TO 85 DEGREES F. MOUNT AT 48 INCHES ABOVE FLOOR OR AS REQUIRED BY LOCAL AUTHORITIES OR ACCESSIBILITY CODES.

   NOTES:
   1) THERMOSTATS THAT ARE PART OF AN ENERGY MANAGEMENT SYSTEM SHALL FOLLOW CONTROL SPECIFICATIONS AND DRAWING REQUIREMENTS.

   2) SHOULD THE LOCATION OF THE THERMOSTAT NOT MEET THE ADA HEIGHT REQUIREMENTS DUE TO OBSTRUCTIONS, THEN AN ALTERNATE LOCATION SHALL BE PROPOSED OR REQUESTED BY THE CONTRACTOR THAT SHALL BE APPROVED BY THE ENGINEER AND ARCHITECT.
33. LINE VOLTAGE THERMOSTATS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
34. CONTROLS CONTRACTOR AND AIR BALANCE CONTRACTOR SHALL COORDINATE WORK AND PERFORM NECESSARY TASKS AS REQUIRED TO OBTAIN AIR AND WATER FLOW QUANTITIES FOR SYSTEMS SHOWN HEREIN.
35. CONTROLS SHALL BE PROVIDED TO PROVIDE THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY THE STATE ENERGY REGULATIONS.
36. ALL DUCTWORK SHALL BE SHEET METAL CONSTRUCTED OR SPIRAL, ERECTED, AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS, PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS, CHAPTER 6 OF THE MECHANICAL CODE, OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION.
37. ALL FLEXIBLE DUCTWORK SHALL BE MAX FIVE FEET AND MIN 3 FEET IN LENGTH TO RESPECTIVE DIFFUSERS, GRILLES, AND REGISTERS, OR OTHER AIR DEVICES.
38. PROVIDE SEISMIC RESTRAINTS TO ALL DUCTWORK, PIPE, AND EQUIPMENT SUPPORTS IN ACCORDANCE WITH THE LATEST SMACNA GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS. SUSPENDED EQUIPMENT SHALL BE PROVIDED WITH SEISMIC ANCHORAGE AND ISOLATION SUPPORTS. SEE SEISMIC NOTES ON THIS SHEET FOR ADDITIONAL REQUIREMENTS.
39. ALL RECTANGULAR DUCT TURNS IN SUPPLY, RETURN, AND EXHAUST DUCTS SHALL HAVE TURNING VANES UNLESS OTHERWISE NOTED.
40. DUCTWORK HANDLING CONDITIONED AIR SHALL BE INSULATED OR LINED AS INDICATED ON DRAWINGS. SUPPLY AND RETURN DUCT INSULATION SHALL BE MIN. 1.5" THICK, 3/4 LB./CUBIC FT. DENSITY AND HAVE A MIN. VALUE OF R-8 WHERE LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES:

   A) OUTDOORS, OR

   B) IN A SPACE BETWEEN THE ROOF AND AN INSULATED CEILING, OR

   C) IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES, OR

   D) IN AN UNCONDITIONED CRAWLSPACE; OR

   E) IN OTHER UNCONDITIONED SPACES

   PER 2022 CEC, OTHERWISE PROVIDE R-4.2 WHEN LOCATED IN CONDITIONED ATTIC SPACES ABOVE CEILINGS. ALL DUCTWORK EXPOSED ON ROOF SHALL BE INTERNALLY LINED WITH 1.5" THICK, 1.5LB./CUBIC FT. DENSITY DUCT LINER UNLESS OTHERWISE INDICATED OR SPECIFIED. ALL DUCT SIZES ARE SHEET METAL SIZES. ALL DUCT JOINTS SHALL BE SEALED PER CHAPTER 6 MECHANICAL CODE REQUIREMENTS. PROVIDE PIPING AND DUCT INSULATION IN ACCORDANCE WITH THE LATEST STANDARDS OF THE CALIFORNIA ENERGY COMMISSION.

   ALL INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50.

   MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS, AS WELL AS FRESH AIR INTAKE DUCTS. DAMPERS SHALL BE LOCATED AT THE BRANCH DUCT LOCATIONS. THE MECHANICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF DAMPERS WITH THE AIR BALANCE CONTRACTOR PRIOR TO BID, SO THEY ARE ACCESSIBLE PRIOR TO INSTALLATION. IN LOCATIONS WHERE THESE DAMPERS ARE INACCESSIBLE, CABLE OPERATED ADJUSTMENT CONTROLS SHALL BE PROVIDED AT NO ADDITIONAL COST. SEE DETAIL 1/M5.1. OPPOSED BLADE DAMPERS SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE.
43. ALL VOLUME DAMPERS SHALL BE INSTALLED MIN THREE DUCT DIAMETERS UPSTREAM OF REGISTERS.

   AUTOMATIC FIRE DAMPER REQUIREMENTS ARE AS FOLLOWS:

   A) PROVIDE AUTOMATIC FIRE DAMPERS AT ALL PENETRATIONS OF FIRE-RATED CEILINGS AND WALLS THROUGHOUT. CONTRACTOR SHALL COORDINATE FIRE-RATED AREAS WITH THE ARCHITECTURAL DRAWINGS AND OTHER TRADES PRIOR TO INSTALL AND SHALL NOTIFY PERTINENT PARTIES PRIOR TO ANY WORK PERFORMED IN THESE AREAS. IN ADDITION, CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE PROPER ACCESS FOR DAMPERS INSTALLED. THE DAMPER FIRE RATING SHALL BE COMPATIBLE WITH THE CEILING/WALL RATING.

   B) LOCATION OF FIRE-RATED CEILINGS AND WALLS ARE AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

   C) FIRE AND/OR SMOKE DAMPER(S) SHALL BE PROVIDED AS REQUIRED BY 2022 CBC AND CFC.

   D) CONTRACTOR SHALL FURNISH FLUSH MOUNTED FIRE AND/OR SMOKE DAMPERS, SO THAT DAMPER DO NOT EXTEND PASS WALLS, FOR AREAS WITHOUT CEILINGS FOR QUALITY WORKMENSHIP.
44. ALL DUCTWORK PASSING THROUGH FIRE RATED CORRIDORS AND LOBBIES SHALL BE MIN. 26 GAGE SHEET METAL CONSTRUCTION. FLEXIBLE DUCTWORK SHALL NOT BE ALLOWED.
45. ALL DUCTWORK, PIPING, CONDUIT, & ETC. PENETRATING FIRE RATED CONSTRUCTION SHALL HAVE APPROVED FIRE STOPPING. COORDINATE WITH OTHER TRADES PRIOR TO INSTALLATION.
46. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER OPERATION OF ALL MECHANICAL EQUIPMENT INCLUDING NECESSARY DEVICES FOR INTERLOCKING OF SUCH EQUIPMENT.
47. CONTRACTOR SHALL REFER TO MECHANICAL AND ARCHITECTURAL PLANS FOR REGISTER, DIFFUSER, AND GRILLE LOCATIONS PRIOR TO INSTALLATION.
48. CONTACT THE ENGINEER IMMEDIATELY IF THERE ARE CONFLICTS PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ALL LOCATIONS OF DUCT PENETRATIONS THROUGH SHEAR WALLS. NO DUCT PENETRATE SHEAR WALLS UNLESS SPECIFICALLY SHOWN ON STRUCTURAL PLANS.
49. CONTRACTOR SHALL REFER TO STRUCTURAL, MECHANICAL, AND ARCHITECTURAL PLANS FOR EXTERIOR LOUVER LOCATIONS PRIOR TO FABRICATION AND INSTALLATION. CONTACT THE ENGINEER IMMEDIATELY IF THERE ARE CONFLICTS. REFER TO ARCHITECTURAL EXTERIOR ELEVATION PLANS FOR MOUNTING HEIGHTS. IF MOUNTING HEIGHTS ARE NOT IDENTIFIED ON THE ARCHITECTURAL PLANS. THEN THE CONTRACTOR SHALL RECEIVE FINAL APPROVAL FROM THE ARCHITECT PRIOR TO FABRICATION AND INSTALLATION.
50. CONTRACTOR SHALL COORDINATE ALL DOOR UNDERCUT QUANTITIES AND LOCATIONS WITH THE APPROPRIATE TRADES PRIOR TO FINAL BID. CONTACT THE ARCHITECT IMMEDIATELY IF THERE ARE CONFLICTS.
51. ALL DOOR UNDERCUTS INDICATED ON FLOOR PLAN(S) SHALL BE 3/4" MIN. ABOVE THRESHOLD.
52. CONTRACTOR SHALL IDENTIFY ALL CEILING ACCESS DOORS FOR MANUAL AND REMOTE CONTROLLED (CABLE OPERATED) DAMPERS, CEILING CUP LOCATIONS FOR INACCESSIBLE AREAS FOR THE ARCHITECT'S REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK, EQUIPMENT, ETC.
53. CONTRACTOR SHALL CONFIRM FINAL REFRIGERANT PIPE SIZING UPON DETERMINATION OF ACTUAL DEVELOPED LENGTH. ALL PIPE MATERIALS SHALL BE PER MANUFACTURER'S GUIDELINES.
54. FOR INACCESSIBLE AREAS THE CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, AND CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING WHERE THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE AS FOLLOWS:

   1) HAND ACCESS: 12"x12" MIN.
   2) BODY ACCESS: 30"x30" MIN.
   3) MANUAL REMOTE CONTROL (CABLE OPERATED) DAMPERS IN LIEU OF VOLUME DAMPERS. SEE DETAIL...
55. WHERE A LARGER ACCESS SIZE IS REQUIRED DUE TO INSTALLATION CONSTRAINTS, THE CONTRACTOR SHALL DO SO AT NO ADDITIONAL COST AND SHALL NOTIFY THE ARCHITECT AND ENGINEER OF DEVIATIONS PRIOR TO INSTALLATION.
56. CONTRACTOR SHALL COORDINATE ALL MOUNTING HEIGHTS ABOVE FINISHED FLOOR WITH OTHER TRADES AND RECEIVE FINAL APPROVAL FROM THE ARCHITECT PRIOR TO FABRICATING AND INSTALLING EXPOSED DUCTWORK, EQUIPMENT, REGISTERS, ETC.
57. CONTRACTOR SHALL REFER TO MECHANICAL AND ARCHITECTURAL PLANS FOR ALL SIDE-WALL GRILLE LOCATIONS PRIOR TO FABRICATION AND INSTALLATION. CONTACT THE ENGINEER IMMEDIATELY IF THERE ARE CONFLICTS. REFER TO ARCHITECTURAL INTERIOR ELEVATION PLANS FOR MOUNTING HEIGHTS. IF MOUNTING HEIGHTS ARE NOT IDENTIFIED ON THE ARCHITECTURAL PLANS. THEN THE CONTRACTOR SHALL RECEIVE FINAL APPROVAL FROM THE ARCHITECT PRIOR TO FABRICATION AND INSTALLATION.
58. CONTRACTOR SHALL INSULATE ALL REFRIGERANT PIPING SUCTION AND VAPOR LINES.
59. CONTRACTOR SHALL PAINT ALL EXPOSED DUCTWORK, REGISTERS, ETC. COORDINATE PAINT FINISHES WITH THE ARCHITECT PRIOR TO INSTALLATION.

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT

Southeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT
KELLEY NEEDHAM
C-19064
9/30 03/31/23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
ANDREW R. GOSSMAN
No. M30870
Exp. 12/31/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT
PDS
PocockDesignSolutions Inc.

NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN:	CHECKED:
DATE: 08/21/2022	SCALE: AS NOTED
PROJECT NUMBER: W2100100AR	

MECHANICAL GEN. NOTES AND LEGEND

DRAWING NUMBER: M0.1

BID SET_20250818

REVIEWED
Aug 26 2025
BUILDING & SAFETY
CITY OF FONTANA

PACKAGED GAS/ELECTRIC A/C UNIT SCHEDULE

SYM	MFR & MODEL #	AREA SERVICED	NOMINAL TONS	COOLING CAPACITY		SEER/ EER	HEATING CAPACITY	HSPF	CFM	MIN. OA CFM	DCV CFM	ESP	FAN PWR (BHP)	FAN MOTOR TYPE	A/C ELECTRICAL				PE/ECON ELECTRICAL				WEIGHTS				REMARKS	WIRING DETAIL	ANCHORAGE DETAIL
				TOTAL	SENSIBLE										V	PH	MCA	MOCP	V	PH	MCA	MOCP	UNIT	CURB	P.E./ECON	TOTAL			
AC 1	CARRIER 50GEQM06	AUXILLARY	5	62,530	49,010	17.0 11.8	54,500	7.2	2000	140	300	0.75	0.90	ECM	230	3	30	45	230	3	8.0	14.4	630	365	200	1195	1, 3, 4, 5, 6, 8	11 M3.1	1,2,3,4 M3.2
AC 2	CARRIER 50GEQM06	TRAINING ROOM	5	62,530	49,010	17.0 11.8	54,500	7.2	2000	400	300	0.75	0.90	ECM	230	3	30	45	230	3	8.0	14.4	630	365	200	1195	1, 3, 4, 5, 6, 7, 8	11 M3.1	1,2,3,4 M3.2
AC 3	CARRIER 50GEQM06	TRAINING ROOM	5	62,530	49,010	17.0 11.8	54,500	7.2	2000	400	300	0.75	0.90	ECM	230	3	30	45	230	3	8.0	14.4	630	365	200	1195	1, 3, 4, 5, 6, 7, 8	11 M3.1	1,2,3,4 M3.2

1. SEPARATE POWER CONNECTION FOR AC UNIT AND POWER EXHAUST.
2. NOT USED
3. 100% DRY BULB ECONOMIZER W/JADE CONTROLLER AND CO2 ROOM SENSOR FOR DCV OPERATION.
4. MICROMETL MODULATING CENTRIFUGAL POWER EXHAUST.
5. 1" DEFLECTION ISO-CURB.
6. AUTOMATIC SHUTDOWN TO BE PROVIDED PER CMC 608.1
7. CO2 SENSOR AND DCV CONTROLS.
8. 2" MERV 13 FILTERS.

NOTES:
A. SPACE PRESSURE TUBING (SPT) FURNISHED AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL ROUTE SPT INSIDE SPACE AWAY FROM DOORS, OPERABLE WINDOWS, AND MINIMUM 3 FT. AWAY FROM SUPPLY AND RETURN AIR GRILLES. CONNECT SPT TO KELE RPS-W ROOM STATIC PRESSURE SENSOR AND LOCATE IN CEILING. PAINT SENSOR PLATE TO PATCH CEILING COLOR.

EXHAUST FAN SCHEDULE

SYM	MFR & MODEL #	SERVICE	FAN TYPE	CFM	ESP (IN. WG)	FAN RPM	BHP	HP	MOTOR RPM	MOTOR TYPE	ELECTRICAL		WEIGHT (LBS)	REMARKS	WIRING DETAIL	ANCHORAGE DETAIL
											V	PH				
EF 1	GREENHECK G-120-VG	RESTROOMS & JANITOR	CENTRIFUGAL	1450	0.5	1,426	0.27	1/2	1725	DIRECT	115	60	70	1, 2, 3	12 M3.1	10 M3.1
EF 2	GREENHECK SQ-95-VG	ELEC 116	INLINE	250	0.3	1117	0.04	1/6	1725	DIRECT	115	60	60	2, 4, 5	13 M3.1	9 M3.1

NOTES:

1. ROOF CAP
2. BACKDRAFT DAMPER.
3. CONTROLLED BY EMS.
4. INLET GUARD
5. CONTROLLED BY LIVE VOLTAGE THERMOSTAT

FAN COIL SCHEDULE

SYM	MFR & MODEL #	AREA SERVICED	CFM	OSA CFM	ESP	FAN HP	ELECTRICAL			WT	REMARKS	CONTROL DETAIL	ANCHORAGE DETAIL
							V	PH	MCA				
FC 1	CARRIER 45MBCAQ18	TRAINING OFFICE 1	390	30	N/A	N/A	POWERED FROM OUTDOOR UNIT			40	1	14 M3.1	8 M3.1
FC 2	CARRIER 45MBCAQ18	TRAINING OFFICE 2	390	30	N/A	N/A	POWERED FROM OUTDOOR UNIT			40	1	14 M3.1	8 M3.1

1. INTEGRAL CONDENSATE PUMP

SPLIT SYSTEM HEAT PUMP SCHEDULE

SYM	MFR & MODEL #	AREA SERVICED	COOLING CAPACITY		HEATING CAPACITY	HSPF	SEER/ EER	ELECTRICAL				WT	REMARKS	CONTROL DETAIL	ANCHORAGE DETAIL
			TOTAL	SENSIBLE				V	PH	MCA	MOPA				
CU 1	CARRIER 37MARAQ18	TRAINING OFFICE 1	16,000	N/A	18,000	10.3	20.0/ 12.5	208	1	18	20	150	1, 2	14 M3.1	7 M3.1
CU 1	CARRIER 37MARAQ18	TRAINING OFFICE 2	16,000	N/A	18,000	10.3	20.0/ 12.5	208	1	18	20	150	1, 2	14 M3.1	7 M3.1

1. ISOLATION PADS
2. ROOF PAD

AIR DISTRIBUTION SCHEDULE

SYM.	MANUF & MODEL	NECK SIZE	FACE SIZE	CFM RANGE	MAX. NECK VELOCITY	MAX. N.C.	T. P. DROP	TYPE	DAMPER	REMARKS
– SD–1	PRICE ASPD	6"Ø 8"Ø 10"Ø 12"Ø 14"Ø 16"Ø 18"Ø	24"x24"	0 - 80 85 - 175 180 - 275 280 - 390 395 - 480 485 - 600 605 - 780	500	25	0.075	PLAQUE	MVD	FRAME TYPE FOR TEGULAR CONFIRM WITH ARCH FOR WOOD GRAIN COLOR
– RG–1	PRICE ASPD	6"Ø 8"Ø 10"Ø 12"Ø 14"Ø 16"Ø 18"Ø	24"x24"	0 - 80 85 - 175 180 - 275 280 - 390 395 - 480 485 - 600 605 - 780	500	25	0.016	PLAQUE	MVD	FRAME TYPE FOR TEGULAR CONFIRM WITH ARCH FOR WOOD GRAIN COLOR
– SD–2	PRICE SMCD	6"x6" 8"x8" 10"x10" 12"x12" 14"x14" 16"x16" 18"x18" 20"x20"	12"x12" 14"x14" 16"x16" 18"x18" 20"x20" 22"x22" 24"x24" 26"x26"	0 - 125 130 - 220 225 - 350 355 - 500 505 - 680 685 - 880 885 - 1125 1130 - 1400	500	25	.057	MODULAR CORE	MVD	BORDER TYPE 1 FOR GYP. BOARD CEILING PROVIDE SQUARE TO ROUND ADAPTER FOR ALL
– RG–2	PRICE 530L	6"x6" 8"x8" 10"x10" 12"x12" 14"x14" 16"x16" 18"x18" 20"x20" 22"x20"	8"x8" 10"x10" 12"x12" 14"x14" 16"x16" 18"x18" 20"x20" 24"x22"	0 - 90 95 - 195 200 - 300 305 - 450 455 - 590 595 - 800 805 - 1040 1045 - 1400	500	25	.067	LOUVERED ADJUSTABLE	MVD	BORDER TYPE N FOR GYP. BOARD CEILING
– EG–1	PRICE 530L	6"x6" 8"x8" 10"x10" 12"x12" 14"x14" 16"x16" 18"x18" 22"x20"	8"x8" 10"x10" 12"x12" 14"x14" 16"x16" 18"x18" 20"x20" 24"x22"	0 - 90 95 - 195 200 - 300 305 - 450 455 - 590 595 - 800 805 - 1040 1045 - 1400	500	25	.067	LOUVERED	MVD	BORDER TYPE N FOR SURFACE MOUNT

LEGEND

– CFM
– AIR DISTRIBUTION DEVICE

SD	SUPPLY DIFFUSER
SR	SUPPLY REGISTER
RG	RETURN GRILLE
EG	EXHAUST GRILLE
TG	TRANSFER GRILLE

NOTES:
1. NOT ALL DIFFUSER/GRILLE TYPES OR SIZES MAY BE USED ON THIS PROJECT.

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RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
Southeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT
KELLEY NEEDHAM
C-19064
Exp 03/31/23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
ANDREW E. DOSSMANN
No. M35670
Exp. 3/31/24
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT
PDS
PocockDesignSolutions Inc.

NO	DATE	BY	DESCRIPTION
			REVISIONS

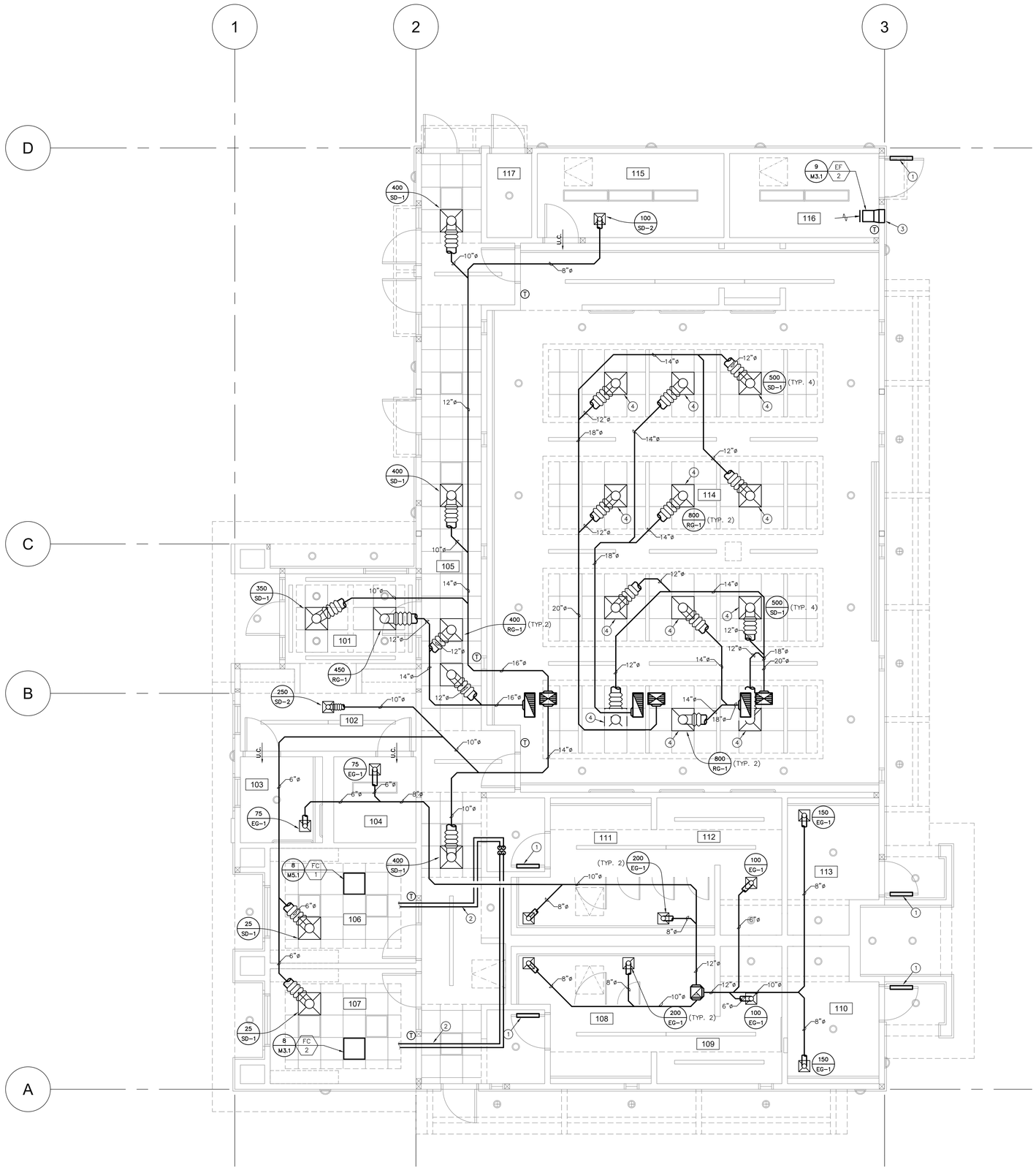
DRAWN: | CHECKED:
DATE: 08/21/2022 | SCALE: NONE
PROJECT NUMBER: W2100100AR

MECHANICAL SCHEDULES

DRAWING NUMBER: M0.2

BID SET_20250818

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA



ROOM #	ROOM NAME	
101	LOBBY	
102	VESTIBULE	
103	ACCESSIBLE RESTROOM	
104	CUSTODIAL/ STORAGE	
105	HALLWAY	
106	TRAINING OFFICE 1	
107	TRAINING OFFICE 2	
108	MEN RESTROOM	
109	MEN LOCKERS/ SHOWER	
110	UNISEX BATHROOM	
111	WOMEN RESTROOM	
112	WOMEN LOCKERS/ SHOWER	
113	UNISEX BATHROOM	
114	TRAINING ROOM	
115	TRAINING STORAGE	
116	ELECTRICAL ROOM	
117	FIRE RISER ROOM	

CONSTRUCTION NOTES:

1. MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS. DAMPERS SHALL BE LOCATED AS CLOSE TO THE MAIN DUCT AS POSSIBLE.
2. PROVIDE MAXIMUM 5'-0" OF ACOUSTICAL FLEX DUCT TO EACH DIFFUSER LOCATED IN T-BAR CEILINGS. ALL DIFFUSERS LOCATED IN HARD-LID CEILINGS SHALL HAVE RIGID CONNECTIONS.
3. PROVIDE REMOTE CABLE OPERATED CONTROLS FOR ALL VOLUME DAMPERS LOCATED ABOVE HARD-LID CEILINGS.
4. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
5. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTIVE CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS. COORDINATE AND PAINT ALL DIFFUSERS PER ARCHITECTURAL REQUIREMENTS.
6. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF DUCT, WATER, AND DEBRIS WHICH MAY ENTER THE SYSTEM.
7. MECHANICAL CONTRACTOR SHALL COORDINATE ALL DOOR LOUVER AND UNDERCUT LOCATIONS WITH THE APPROPRIATE TRADES PRIOR TO BID.

CONSTRUCTION NOTES:

1. DOOR LOUVER WITH MIN. 1 SQ FT OF FREE AREA.
2. REFRIGERANT PIPING FROM FAN COIL UP THRU ROOF. CONTRACTOR TO VERIFY ROUTING AND PIPE SIZE PRIOR TO ORDERING.
3. EXTERIOR WALL LOUVER WITH MIN. 1 SQ FT OF FREE AREA.
4. AIR DISTRIBUTION DEVICE TO BE PAINTED. COORDINATE WITH ARCHITECT.

NORTH

MECHANICAL FLOOR PLAN

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

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FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
Southeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT — KELLEY NEEDHAM — C-19064 — 03/31/23 — STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER — ANDREW R. GOSSMAN — No. M39639 — Exp. 3/31/26 — MECHANICAL — STATE OF CALIFORNIA

CONSULTANT
PDS
PocockDesignSolutions Inc.

NO	DATE	BY	DESCRIPTION
1			REVISIONS

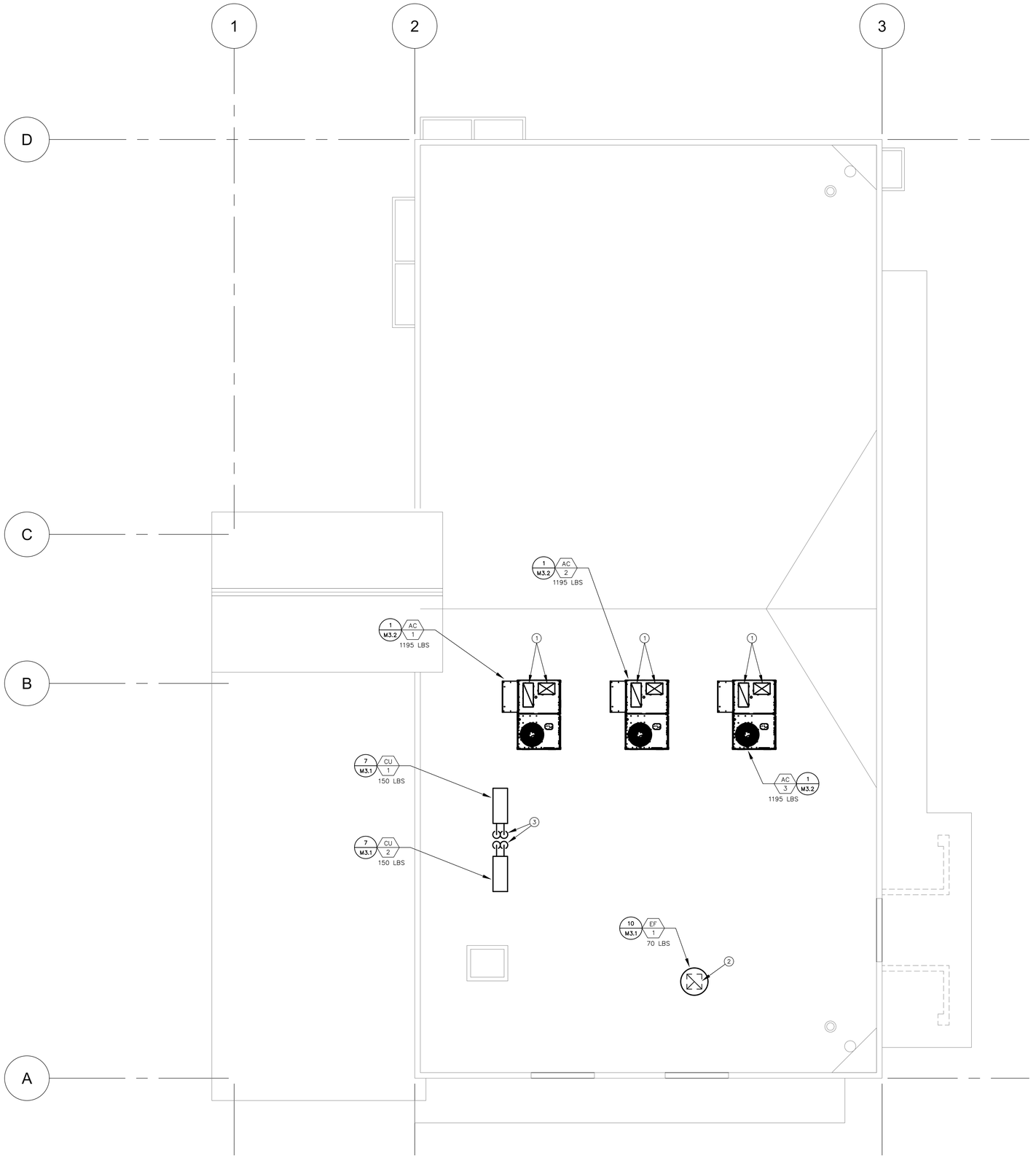
DRAWN: | CHECKED:
DATE: 08/21/2022 | SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

MECHANICAL FLOOR PLAN

DRAWING NUMBER: M2.1

BID SET_20250818

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA



CONSTRUCTION NOTES:

1. FRESH AIR INTAKES SHALL BE 10'–0" MIN. AWAY FROM ALL EXHAUST OUTLETS, PLUMBING VENTS, AND FLUES.
2. ALL REFRIGERANT PIPING SHALL BE TYPE 'L' COPPER.
3. CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT PAD SIZES AND LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION.
4. MAINTAIN MANUFACTURER MIN. CLEARANCES ON ALL ROOF–TOP MECHANICAL EQUIPMENT.
5. CONTRACTOR SHALL CONFIRM FINAL REFRIGERANT PIPE SIZING UPON DETERMINATION OF ACTUAL DEVELOPED LENGTH. ALL PIPE MATERIALS SHALL BE PER MFRG. GUIDELINES.
6. CONTRACTOR SHALL INSULATE ALL REFRIGERANT PIPING LINES, AND PROVIDE WEATHER JACKETING FOR ALL REFRIGERANT PIPING.

CONSTRUCTION NOTES:

(1) 18"X12" S.A.D. AND 12"X26" R.A.D. DOWN THRU ROOF.

(2) 16"X16" E.A.D. DOWN THRU ROOF.

(3) REFRIGERANT PIPING FROM CONDENSING UNIT DOWN THRU ROOF. CONTRACTOR TO VERIFY ROUTING AND PIPE SIZE PRIOR TO ORDERING.

NORTH

MECHANICAL ROOF PLAN

SCALE 1/4"=1'–0"

1

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C-19064
Re-Ne 03/31/23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
ANDREW R. GUSMANO
No. M29870
Exp. 3/31/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT
PDS
PocockDesignSolutions Inc.

NO	DATE	BY	DESCRIPTION
1			REVISIONS

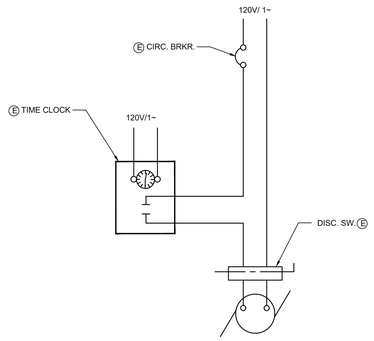
DRAWN:	CHECKED:
DATE: 08/21/2022	SCALE: AS NOTED
PROJECT NUMBER: W2100100AR	

MECHANICAL ROOF PLAN

DRAWING NUMBER: M2.2

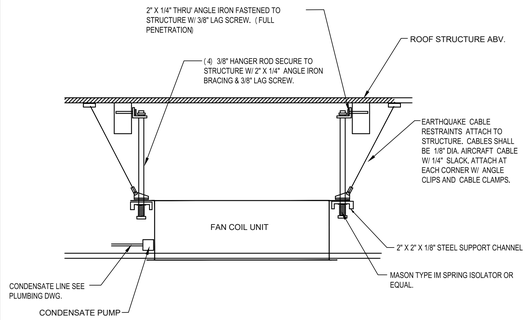
BID SET_20250818

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

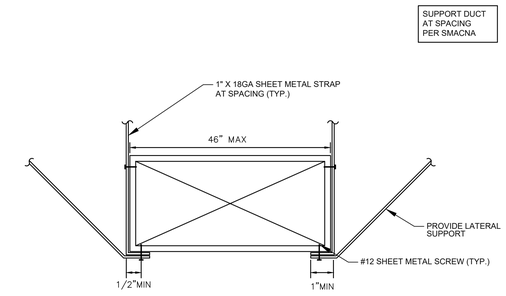


LEGEND:
(E) PROVIDED BY ELEC.
(M) PROVIDED BY MECH.

EXHAUST FAN WIRING DIAGRAM
SCALE: NONE — 12

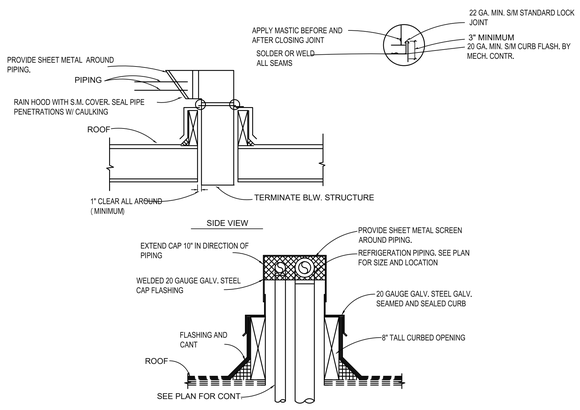


TYP. CASSETTE FAN COIL ANCHORAGE DETAIL
SCALE: NONE — 8

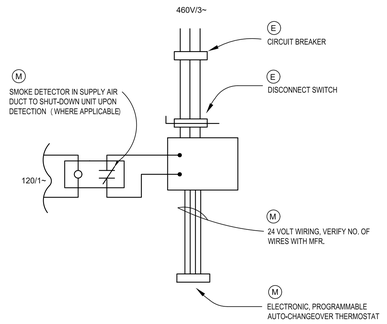


NOTE: INSTALLATION SHALL COMPLY W/ LATEST SMACNA STANDARDS.

TYPICAL RECT. DUCT ANCHORAGE DETAIL
SCALE: NONE — 4

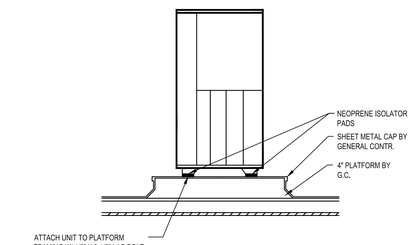


REFRIGERANT PIPING THRU ROOF
SCALE: NONE — 15



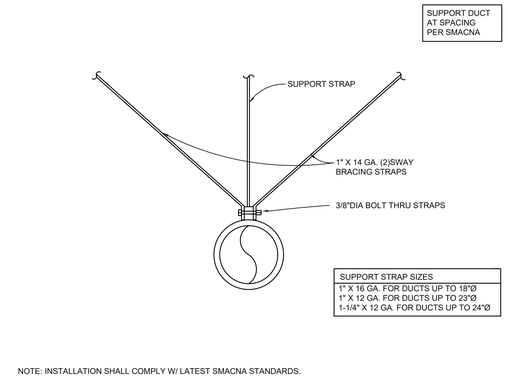
LEGEND:
(E) PROVIDED BY ELEC.
(M) PROVIDED BY MECH.

ROOFTOP PACKAGED AC UNIT WIRING DIAGRAM
SCALE: NONE — 11



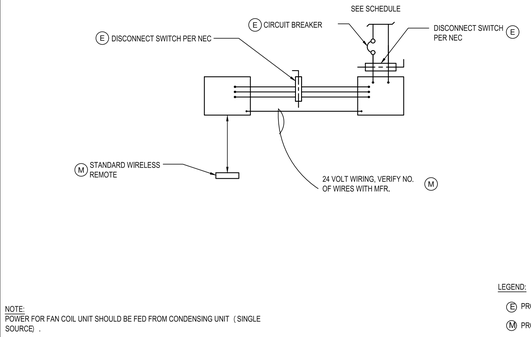
CU 1 / CU 2
MAX WEIGHT: 150 LBS.

TYPICAL HEAT PUMP UNIT ANCHORAGE DETAIL
SCALE: NONE — 7



NOTE: INSTALLATION SHALL COMPLY W/ LATEST SMACNA STANDARDS.

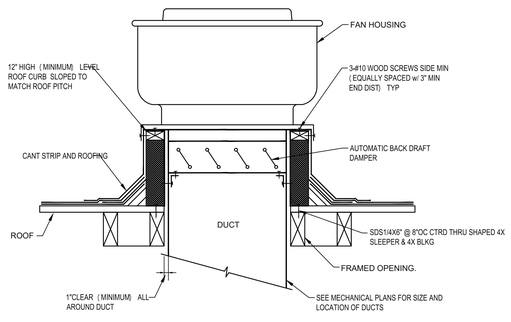
TYPICAL ROUND DUCT ANCHORAGE DETAIL
SCALE: NONE — 3



NOTE:
POWER FOR FAN COIL UNIT SHOULD BE FED FROM CONDENSING UNIT (SINGLE SOURCE) .

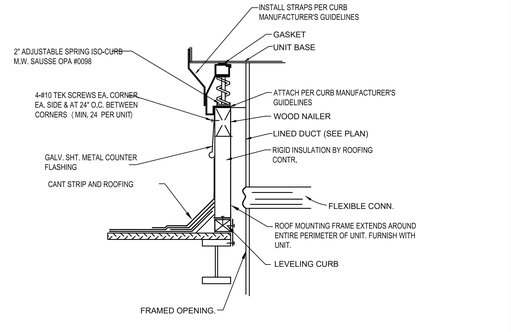
LEGEND:
(E) PROVIDED BY ELEC.
(M) PROVIDED BY MECH.

SPLIT SYSTEM HEAT PUMP WIRING DIAGRAM
SCALE: NONE — 14



EF
MAX WEIGHT: 60 LBS.

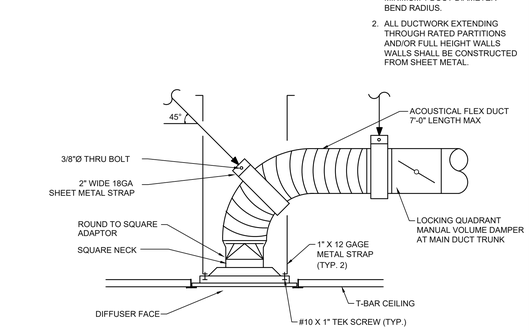
TYPICAL CURB EXHAUST FAN ANCHORAGE DETAIL
SCALE: NONE — 10



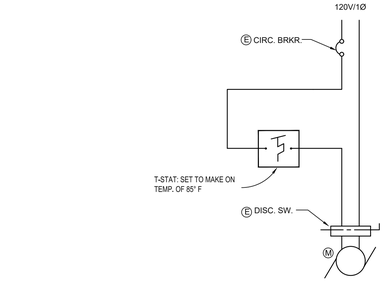
NOTES:
1. SLOPED ROOF CURBS TO MATCH ROOF PITCH.
2. TOP OF CURB SHALL BE MINIMUM 8" ABOVE FINISHED ROOF.

AC 1 / AC 2 / AC 3

TYP. AC UNIT ANCHORAGE DETAIL
SCALE: NONE — 6

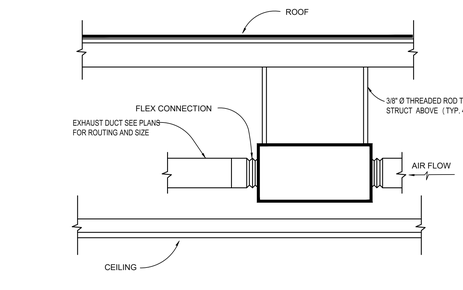


TYPICAL CEILING DIFFUSER INSTALLATION DETAIL
SCALE: NONE — 2



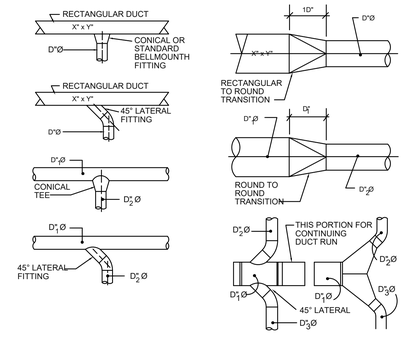
LEGEND:
(E) PROVIDED BY ELEC.
(M) PROVIDED BY MECH.

EXHAUST FAN WIRING DIAGRAM
SCALE: NONE — 13

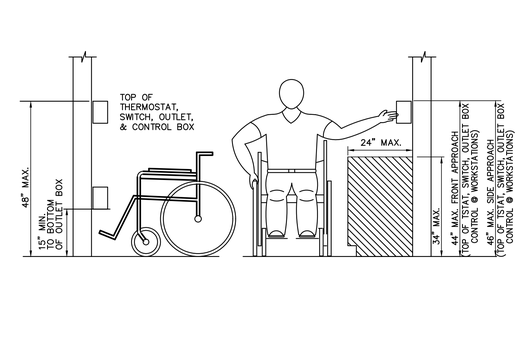


EF
MAX WEIGHT: - LBS.

TYPICAL IN-LINE EXHAUST FAN ANCHORAGE DETAIL
SCALE: NONE — 9



DUCT TRANSITION REQUIREMENTS
SCALE: NONE — 5



TYPICAL CONTROL DEVICE MOUNTING DETAIL
SCALE: NONE — 1

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NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN: | CHECKED:
DATE: 08/21/2022 | SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

MECHANICAL DETAILS

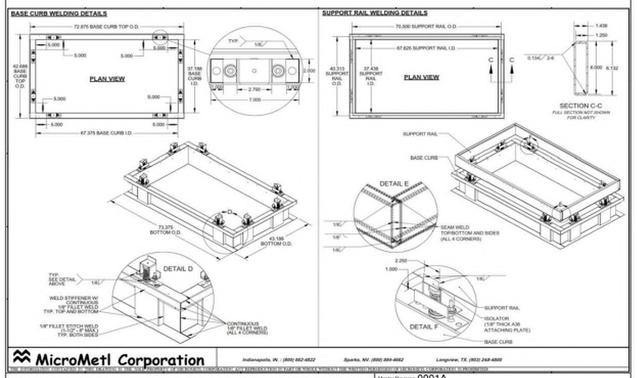
DRAWING NUMBER: M3.1

BID SET_20250818

REVIEWED
Aug 25 2025
BUILDING & SAFETY
CITY OF FONTANA

MicroMetl | Date: | Weight: 365lbs (US) 165.56k(Metric) | Part Number: CRBV-SRT12HA-1412-P30
RTU:
Submitted to: | Approved by: | Notes:

Vibration Isolation - Structurally Calculated Curb 24 Inches Tall / 14 Inch Curb Base, Full Perimeter, Non Insulated, With Power Exhaust Option . The Adjustable Deflection Spring Housing Meets California CBC, Seismic Requirements



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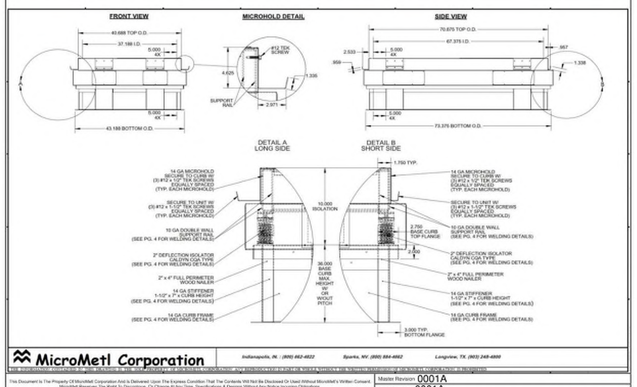
Master Revision 0001A
Page Revision 0001A

Indianapolis_3035 N. Shadeland Ave., Indianapolis, IN 46226_800.MMC.HVAC ↔ Sparks_905 Southern Way, Sparks, NV 89431_800.884.4MMC ↔ Longview_201 Kodiak Blvd., Longview, TX 75602_903.248.4800

ROOFTOP UNIT CURB DETAIL — SCALE NONE — 4

MicroMetl | Date: | Weight: 365lbs (US) 165.56k(Metric) | Part Number: CRBV-SRT12HA-1412-P30
RTU:
Submitted to: | Approved by: | Notes:

Vibration Isolation - Structurally Calculated Curb 24 Inches Tall / 14 Inch Curb Base, Full Perimeter, Non Insulated, With Power Exhaust Option . The Adjustable Deflection Spring Housing Meets California CBC, Seismic Requirements



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ROOFTOP UNIT CURB DETAIL — SCALE NONE — 3

MicroMetl | Date: | Weight: 365lbs (US) 165.56k(Metric) | Part Number: CRBV-SRT12HA-1412-P30
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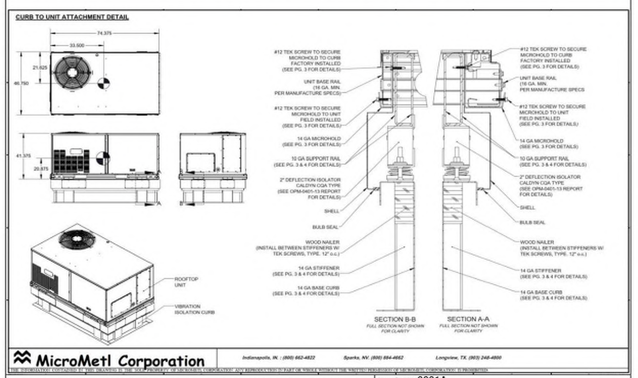
Vibration Isolation - Structurally Calculated Curb 24 Inches Tall / 14 Inch Curb Base, Full Perimeter, Non Insulated, With Power Exhaust Option . The Adjustable Deflection Spring Housing Meets California CBC, Seismic Requirements



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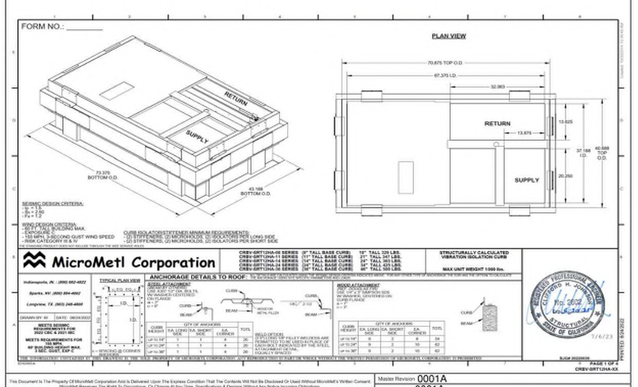
ROOFTOP UNIT CURB DETAIL — SCALE NONE — 2

MicroMetl | Date: | Weight: 365lbs (US) 165.56k(Metric) | Part Number: CRBV-SRT12HA-1412-P30
RTU:
Submitted to: | Approved by: | Notes:

Vibration Isolation - Structurally Calculated Curb 24 Inches Tall / 14 Inch Curb Base, Full Perimeter, Non Insulated, With Power Exhaust Option . The Adjustable Deflection Spring Housing Meets California CBC, Seismic Requirements



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ROOFTOP UNIT CURB ANCHORAGE DETAIL — SCALE NONE — 1

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
Southeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT — KELLEY NEEDHAM C-19064 — 9/30/23 — STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER — ANDREW K. OSSMANN — No. M39670 Ex. 3/31/24 — MECHANICAL — STATE OF CALIFORNIA

CONSULTANT
PDS
PocockDesignSolutions Inc.

NO	DATE	BY	DESCRIPTION
1			REVISIONS

DRAWN:	CHECKED:
DATE: 08/21/2022	SCALE: AS NOTED
PROJECT NUMBER: W2100100AR	

MECHANICAL DETAILS

DRAWING NUMBER: M3.2

BID SET_20250818