



# OEM EMERGENCY OPERATIONS CENTER

TORTUGAS TRAILS  
LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD.  
LAS CRUCES, NM 88007



## CONSTRUCTION DOCUMENTS

ASA PROJECT NUMBER: 22115L

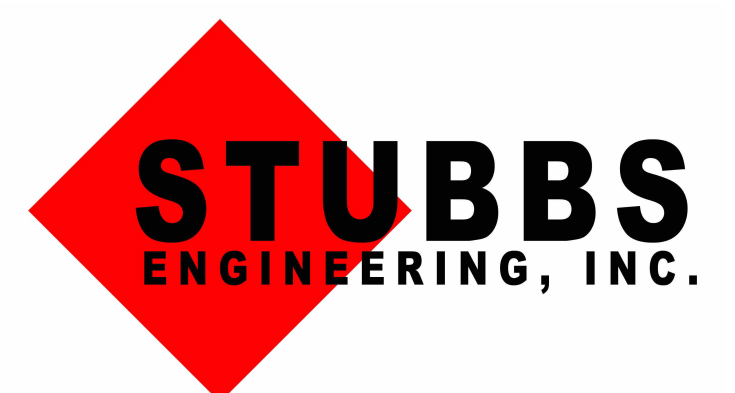
January, 03 2025



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### DRAWING INDEX

#### GENERAL

- G-000 COVER
- G-100 GENERAL INFORMATION AND PROJECT DATA
- G-101 ACCESSIBILITY STANDARDS
- G-102 ACCESSIBILITY STANDARDS

#### ARCHITECTURAL

- AS-101 OVERALL SITE PLAN
- A-101 OVERALL FLOOR PLAN
- A-102 OVERALL DIMENSION FLOOR PLAN
- A-103 ENLARGED FLOOR PLAN WEST WING
- A-104 ENLARGED FLOOR PLAN EAST WING
- A-105 REFLECTED CEILING PLAN
- A-106 ROOF PLAN
- A-107 BID LOT #1- STAIR TOWER
- A-108 PARTITION PLAN & DETAILS
- A-110 WAREHOUSE FLOOR PLAN
- A-111 WAREHOUSE ELEVATIONS
- A-200 EXTERIOR ELEVATIONS
- A-300 BUILDING SECTIONS
- A-301 BUILDING SECTIONS
- A-302 WALL SECTIONS
- A-303 WALL SECTIONS
- A-304 WALL SECTION
- A-305 WALL SECTIONS
- A-306 DETAILS
- A-307 DETAILS
- A-400 ENLARGED FLOOR PLAN
- A-401 ENLARGED FLOOR PLANS
- A-402 ENLARGED FLOOR PLANS
- A-403 ENLARGED FLOOR PLANS
- A-500 INTERIOR ELEVATIONS
- A-501 INTERIOR ELEVATIONS
- A-600 DOOR SCHEDULE, & DETAILS
- A-701 ROOF DETAILS
- A-702 ROOF DETAILS

#### CIVIL

- C-101 GENERAL NOTES
- C-200 SURVEY CONTROL PLAN
- C-201 HORIZONTAL & VERTICAL CONTROL PLAN
- C-300 GRADING PLAN
- C-301 GRADING PLAN
- C-302 DETAIL CALLOUT PLAN
- C-303 PAVEMENT PLAN
- C-400 UTILITY PLAN
- C-401 UTILITY DETAILS
- C-402 UTILITY DETAILS
- C-403 UTILITY DETAILS
- C-404 UTILITY DETAILS
- C-600 PROJECT DETAILS
- C-601 PROJECT DETAILS
- C-602 PROJECT DETAILS
- C-603 PROJECT DETAILS
- C-604 PROJECT DETAILS
- C-605 PROJECT DETAILS
- C-606 PROJECT DETAILS
- C-607 PROJECT DETAILS
- C-700 STRIPING & SIGNAGE PLAN
- C-701 STRIPING & SIGNAGE PLAN
- C-900 EROSION CONTROL PLAN

#### LANDSCAPING

- L-100 LANDSCAPE GENERAL NOTES
- L-101 LANDSCAPE PLAN
- L-102 PLANT IMAGES
- L-103 IRRIGATION PLAN
- L-104 PLANTING DETAILS
- L-105 IRRIGATION DETAILS
- L-106 CONSTRUCTION DETAILS

#### STRUCTURAL

- S-100 STRUCTURAL NOTES
- S-101 STRUCTURAL DIAGRAMS
- S-200 OVERALL FOUNDATION PLAN
- S-201 OEM BUILDING FOUNDATION PLAN
- S-202 WAREHOUSE FOUNDATION PLAN
- S-300 ROOF FRAMING PLAN
- S-301 ROOF FRAMING PLAN
- S-400 BRACE FRAME ELEVATIONS
- S-410 SCREEN WALL ELEVATIONS
- S-500 TYPICAL FOUNDATION DETAILS
- S-501 FOUNDATION DETAILS
- S-600 TYPICAL FRAMING DETAILS
- S-700 ROOF FRAMING DETAILS
- S-701 ROOF FRAMING DETAILS
- S-800 BRACE FRAME DETAILS
- S-900 STAIR PLANS & DETAILS

#### MECHANICAL

- M-100 MECHANICAL GENERAL NOTES
- M-200 MECHANICAL PLAN
- M-201 REFRIGERANT PIPING AND THERMOSTAT DISTRIBUTION PLAN
- M-202 MECHANICAL ROOF PLAN
- M-203 MECHANICAL SCHEDULES
- M-204 MECHANICAL SCHEDULES
- M-300 MECHANICAL DETAILS
- M-301 MECHANICAL DETAILS
- M-302 MECHANICAL DETAILS

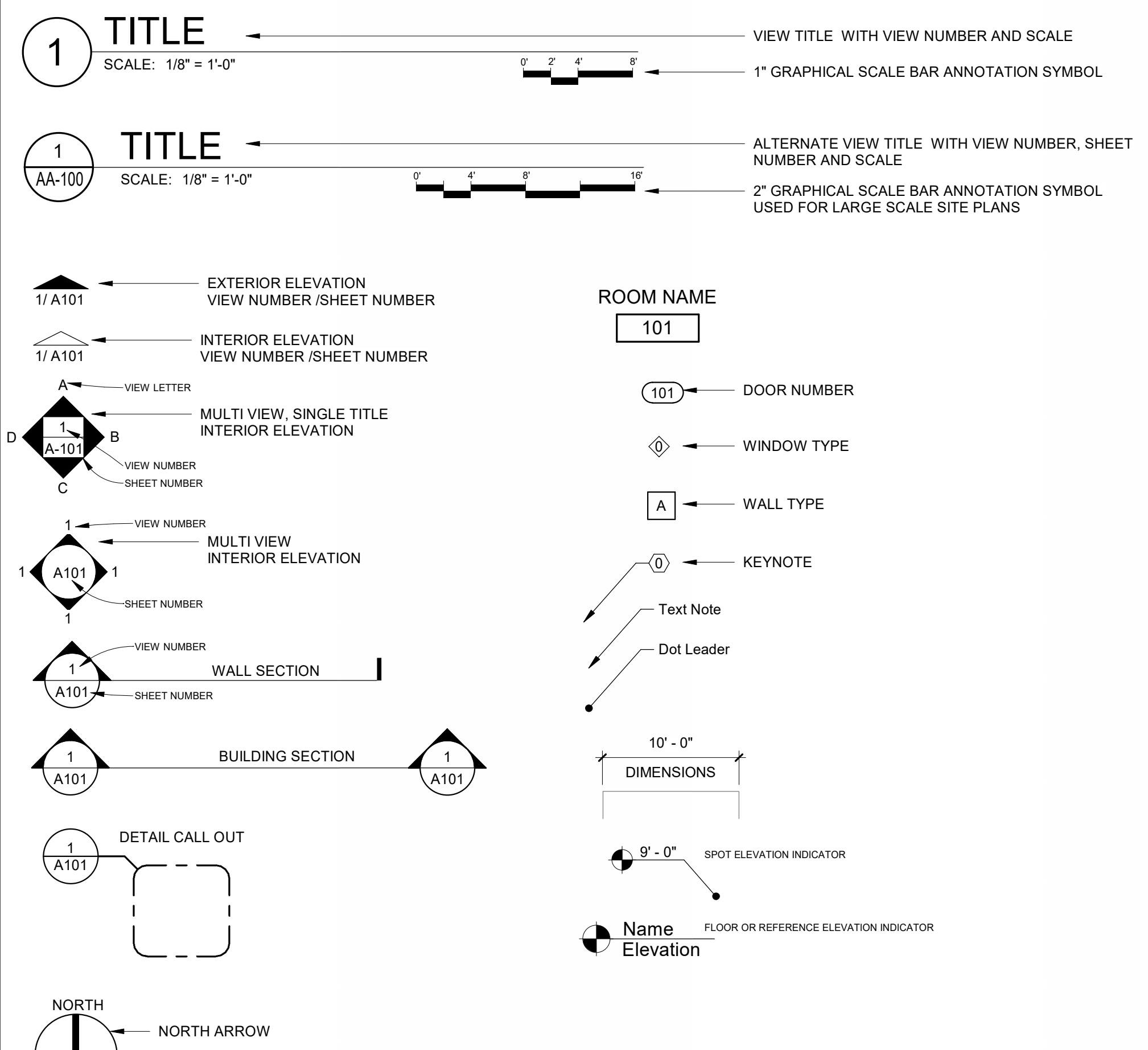
#### PLUMBING

- P-100 PLUMBING GENERAL NOTES
- P-200 DOMESTIC WATER PLUMBING PLAN
- P-300 SEWER AND VENT PLUMBING PLAN
- P-400 CONDENSATE AND GAS PLUMBING PLAN
- P-500 PLUMBING DETAILS
- P-600 ROOF PLAN
- P-700 CONCEPTUAL FIRE SUPPRESSION SYSTEM

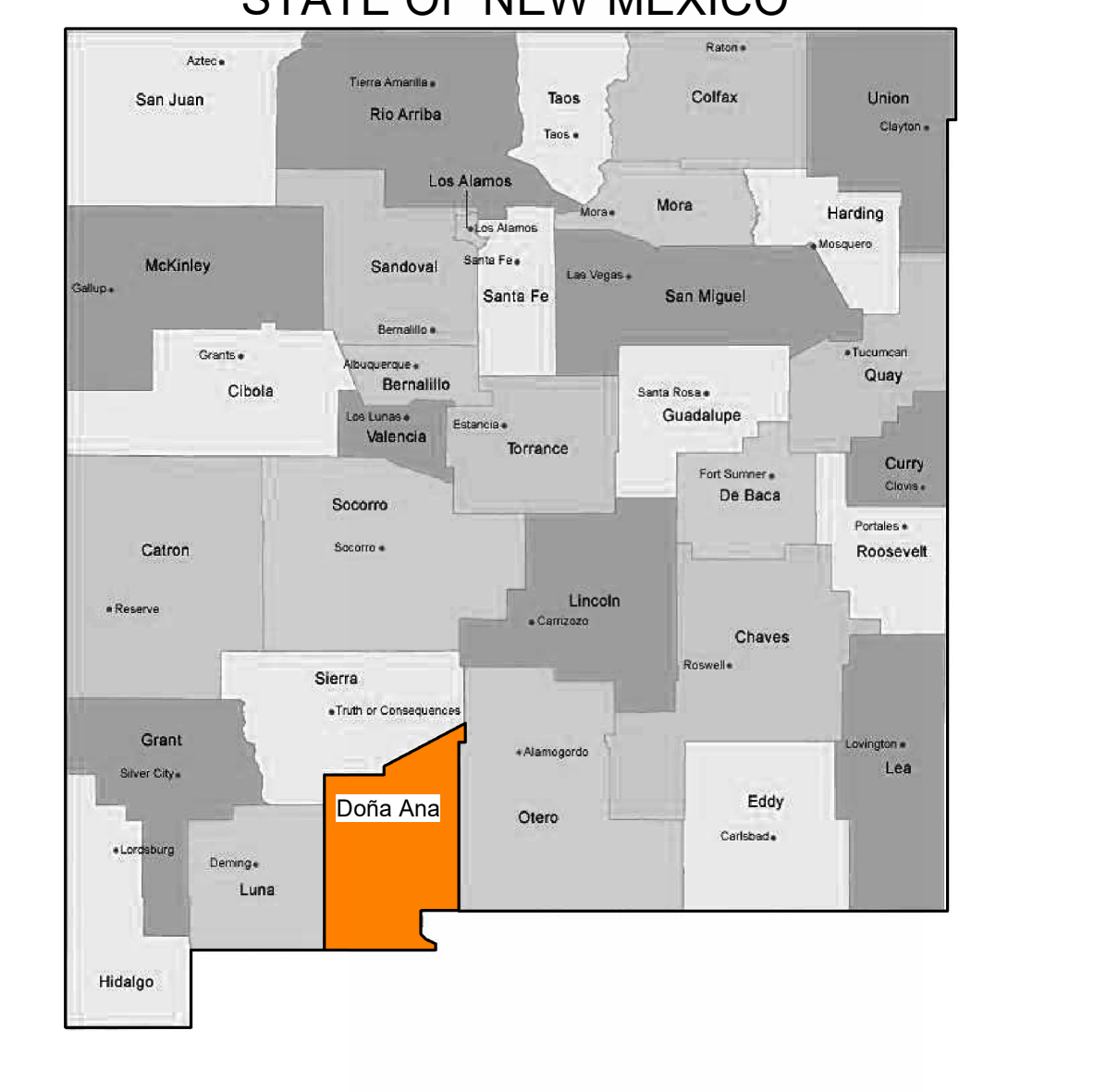
#### ELECTRICAL

- E-100 ELECTRICAL GENERAL NOTES
- E-101 ELECTRICAL SITE PLAN
- E-200 LIGHTING PLAN
- E-300 POWER PLAN
- E-400 HVAC POWER
- E-401 ROOF HVAC POWER
- E-500 SPECIAL SYSTEMS

**SYMBOLS LEGEND**



**PROJECT REGIONAL MAP**  
STATE OF NEW MEXICO



**PROJECT VICINITY MAP**



**PROJECT DATA**

- A. PROJECT IDENTIFICATION**  
OEM EMERGENCY OPERATIONS CENTER  
GEOTHERMAL DR.  
LAS CRUCES, NM
- B. OWNER**  
DOÑA ANA COUNTY  
845 N MOTEL BLVD  
LAS CRUCES, NM 88007  
PHONE: (575)-647-7200
- C. ARCHITECT**  
ASA ARCHITECTS  
201 N. ALAMEDA  
LAS CRUCES, NM 88005  
575.526.3111
- D. APPLICABLE CODES**  
BUILDING: 2015 NEW MEXICO INTERNATIONAL BUILDING CODE  
2015 NM COMMERCIAL BUILDING CODE  
FIRE: 2015 INTERNATIONAL FIRE CODE  
ENERGY: 2018 INTERNATIONAL ENERGY CONSERVATION CODE  
2018 NM COMMERCIAL ENERGY CONSERVATION CODE  
ACCESSIBILITY: CHAPTER 11 OF THE 2015 INTERNATIONAL BUILDING CODE / 2015 NM COMMERCIAL BUILDING CODE AND CURRENT ADDITION OF ICC / ANSI A117.1  
MECHANICAL: 2021 NM MECHANICAL CODE  
PLUMBING: 2021 NM PLUMBING CODE  
ELECTRICAL: 2017 NEW MEXICO ELECTRICAL CODE / 2012 NM ELECTRICAL SAFETY CODE
- E. SCOPE OF WORK**  
EXISTING BUILDING IS 2,969 SQUARE FEET. THE WORK CONSISTS OF THE REPAIR OR THE REPLACEMENT OF THE EXISTING WINDOWS, EXISTING CLAY ROOF TILES WILL CLEANED AND OR REPAIRED AS NEEDED, EXISTING BUILT UP ROOF AT THE ENTRY WILL BE REPLACED WITH TPO MEMBRANE ROOF. GENERAL REPAIRS WILL BE MADE TO THE EXISTING EXTERIOR. THE INTERIOR WILL BE DEMO'D AND REMODELED
- F. BUILDING DATA**
- CONSTRUCTION TYPE: TYPE IIB UNPROTECTED
  - OCCUPANCY CLASSIFICATION: GROUP BUSINESS
  - OCCUPANCY LOAD (IBC TABLE 1004.5):
  - ACTUAL BUILDING AREA:
  - ALLOWABLE BUILDING HEIGHT: 2 STORIES
  - ACTUAL BUILDING HEIGHT: 1 STORY
  - FIRE SPRINKLER SYSTEM: SPRINKLED
  - LAND USE ZONE:
  - SEISMIC LOCATION: SEE STRUCTURAL DRAWINGS
  - PLUMBING FIXTURES: SEE CHART

MAXIMUM NUMBER OF REQUIRED PLUMBING FIXTURES (IBC TABLE 2901.1)		
FIXTURE	REQUIRED	PROVIDED
WATER CLOSETS (MALE)		
WATER CLOSETS (FEMALE)		
LAVATORIES (MALE)		
LAVATORIES (FEMALE)		
DRINKING FOUNTAINS		
SERVICE SINK		

**PROJECT GENERAL NOTES**

- PROJECT GENERAL NOTES PROVIDE INFORMATION CONCERNING THE WORK OF THE ENTIRE PROJECT AND ARE NOT LIMITED TO ANY INDIVIDUAL DRAWING OR SHEET.
- CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL CODES, ORDINANCES AND REGULATIONS APPLICABLE AT PROJECT LOCATION. CONTRACTOR IS RESPONSIBLE FOR FILING AND SECURING ALL NECESSARY PERMITS, APPROVALS, ETC. FOR ALL TRADES.
  - KEYED NOTES ARE GENERAL IN NATURE AND MAY NOT REPRESENT ALL CONDITIONS WHICH MAY EXIST.
  - FIELD VERIFY EXISTING DIMENSIONS PRIOR TO ORDERING OR CUTTING MATERIALS.
  - ALL WORK IS TO CONFORM TO DRAWINGS AND SPECIFICATIONS. DRAWINGS ARE NOT TO BE SCALED FOR INFORMATION.
  - THIS FACILITY SHALL BE FINISHED COMPLETELY THROUGHOUT. SHOULD THERE BE ANY QUESTIONS REGARDING THE BOUNDARIES OF EACH ROOM DESIGNATION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASK QUESTIONS PRIOR TO BIDDING. SHOULD TIME CONSTRAINTS NOT ALLOW CLARIFICATION FOR PRICING PURPOSES, THE FINISH OF THE NEXT ADJACENT ROOM (WHICHEVER IS HIGHER MONETARY VALUE) SHALL BE INCLUDED INTO THE BID. NO SEPARATE PAYMENT WILL BE MADE UNDER A REQUEST OF CLARIFICATION AFTER BIDDING.
  - SQUARE FOOTAGE LISTINGS IN EACH ROOM DESIGNATION ARE FOR OWNER SPACE LOCATION PURPOSES. THIS LISTING SHOULD NOT BE USED FOR ESTIMATION PURPOSES. IT IS THE RESPONSIBILITY OF THE BIDDING CONTRACTOR TO ESTABLISH THE EXACT REQUIRED QUANTITIES.
  - ALL EXPOSED PIPING (INCLUDES WALLS AND ROOF) SHALL BE PRIMED AND PAINTED AS SPECIFIED IN THE PAINTING SPEC. - UNLESS NOTED OTHERWISE. COLOR AS SELECTED BY ARCHITECT. PAINTING CONTRACTOR IS RESPONSIBLE FOR THE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS INDICATING EXPOSED PIPING. ALL REQUIRED PAINTING OF EXPOSED PIPING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.
    - WHERE CONFLICTS BETWEEN SPECIFICATIONS AND DRAWINGS MAY ARISE, THE CONTRACTOR SHALL PROVIDE AND INSTALL THE LARGEST QUANTITY OF THE HIGHER QUALITY OF THE ITEMS IN CONFLICT, AT NO ADDITIONAL COST TO THE OWNER.
    - DRAWINGS WITHIN A SET ARE COMPLEMENTARY IN NATURE. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF THE SUPPLY AND INSTALLATION OF ITEMS WHICH MAY NOT APPEAR ON SHEETS NOT TYPICALLY ASSOCIATED WITH THAT PARTICULAR TRADE. EXAMPLE: A LIGHT IS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN, BUT IS NOT SHOWN ON THE ELECTRICAL LIGHTING PLAN. IN THIS CASE, THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FIXTURE AND PROVIDE POWER TO THE FIXTURE. WHEN IN DOUBT, THE CONTRACTOR SHALL REQUEST CLARIFICATION PRIOR TO THE BID.
    - NOTATIONS ON DRAWINGS (I.E. "KEYED NOTES") APPLY TO MOST TYPICAL OCCURRENCES, AND MAY NOT POINT TO EVERY SINGLE INSTANCE WHERE THAT CONDITION EXISTS. EXAMPLE: A KEYED NOTE POINTS TO A PIPE BOLLARD ON THE SIDE OF A DRIVE THRU AND IDENTIFIES AS SUCH. ANOTHER PIPE BOLLARD IS SHOWN ON THE OTHER SIDE, BUT IT IS NOT IDENTIFIED BY THE SAME KEYED NOTE. IN THIS CASE, THE CONTRACTOR SHALL FURNISH AND INSTALL BOTH PIPE BOLLARDS, WHEN IN DOUBT, THE CONTRACTOR SHALL REQUEST CLARIFICATION PRIOR TO THE BID.
  - PROPER SEALING OF THE BUILDING ENVELOPE - OPENINGS AND PENETRATIONS IN THE BUILDING ENVELOPE SHALL BE SEALED WITH CAULKING MATERIALS OR CLOSED WITH GASKETING SYSTEMS COMPATIBLE WITH THE CONSTRUCTION MATERIALS AND LOCATION. JOINTS AND SEAMS SHALL BE SEALED IN THE SAME MANNER OR TAPED OR COVERED WITH MOISTURE VAPOR PERMEABLE SEALING MATERIALS SPANNING JOINTS BETWEEN CONSTRUCTION MATERIALS SHALL ALLOW FOR EXPANSION AND CONTRACTION OF THE CONSTRUCTION MATERIALS.
  - DISPOSAL OF ALL DEMOLISHED ITEMS SHALL BE DONE BY THE CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND ORDINANCES. DISPOSAL ITEMS SHALL BE DISPOSED OF IN A PERMITTED SOLID WASTE FACILITY OR OTHER PRIVATE LOCATION. PRIVATE DISPOSAL LOCATIONS SHALL NOT BE USED UNTIL A WRITTEN CONSENT FROM THE PROPERTY OWNER IS PROVIDED TO THE OWNER. ALL COST INCURRED IN OBTAINING A DISPOSAL SITE AND HAULING ALL REMOVED AND DEMOLISHED ITEMS TO THE SITE SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.
  - CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCY BETWEEN DRAWINGS, SPECIFICATIONS AND/OR EXISTING CONDITIONS. CONTRACTOR SHALL AWAIT RESOLUTION OF DISCREPANCY BEFORE ORDERING MATERIALS OR MOVING FORWARD WITH WORK INVOLVING DISCREPANCY.
  - CONTRACTOR SHALL REPAIR OR REPLACE ANY ITEM OR SURFACE THAT MAY HAVE BEEN DAMAGED DURING CONSTRUCTION.
  - MAKE THE NECESSARY ARRANGEMENTS WITH THE OWNER TO VISIT THE SITE PRIOR TO SUBMITTING A PROPOSAL. EXAMINE THE EXISTING SITE, FACILITIES, AND FIELD VERIFY ALL CONDITIONS SUBMISSION OF A PROPOSAL SHALL BE TAKEN AS EVIDENCE THAT THE CONTRACTOR HAS PHYSICALLY INSPECTED THE SITE AND MADE HIM OR HERSELF FAMILIAR WITH AND UNDERSTANDS THE REQUIRED SCOPE OF WORK.
  - ACTUAL FIELD CONDITIONS FOUND TO BE AT VARIANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR HIS CONSIDERATION BEFORE PROCEEDING WITH THE WORK.
  - LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION AND COORDINATE ALL WORK WITH RESPECTIVE UTILITY OWNERS.
  - GENERAL DATA SHOWN ON ONE PART OF THE DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS.
  - THE CONSTRUCTION DOCUMENTS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CARE OF ALL PROPERTIES DURING CONSTRUCTION MUST COMPLY WITH ALL GOVERNING REGULATIONS CONCERNING SAFETY AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  - ALL TEMPORARY UTILITIES SHALL BE PAID BY THE CONTRACTOR.
  - THE CONTRACTOR'S COST FOR THE WORK SHALL INCLUDE ALL ACCESSORIES AND INCIDENTALS, INCLUDING BUT NOT LIMITED TO, BLOCKING BACKING, FASTENERS, ADHESIVES, SEALANTS, MISC. COMPONENTS AND ALL LABOR REQ. FOR COMPLETE INSTALLATION SATISFACTORY TO THE OWNER, ARCHITECT, AND MANUF.
  - ALL PLYWOOD, LUMBER, AND OTHER WOOD RELATED PRODUCTS FOR SHEATHING, BACKING, BLOCKING, NAILERS, ETC. SHALL BE FIRE TREATED.

**ABBREVIATIONS**

A/C	Air Condition	CL	Center Line/Clearance	ELEV	Elevator/Elevation	FTG	Footing	RESIL	Resilient	STC	Sound Transmission Coefficient (Class)	T/W	Top of Wall
ACT	Acoustical Ceiling Tile	CLG	Ceiling	ENAM	Enamel(ed)	FURR	Furring	RET	Return	STD	Standard	TYP	Typical
AD	Area Drain	CLR	Clear	EMER	Emergency	FXD	Fixed	REV	Reverse/Revised/Revision	STL	Steel	TRTD	Treated
ADB	Automatic Door Button	CMT	Ceramic Mosaic Tile	ENCL	Enclosure	RFG	Roofing	RH	Right Hand	STOR	Storage	UG	Underground
ADD	Addendum	CMU	Concrete Masonry Unit	ENGR	Engineer	RHS	Right Hand Reverse	RHR	Right Hand Reverse	STRUC	Structural	UH	Unit Heater
ADDL	Additional	CNTR	Counter	ENTR	Entrance	GB	Gauge/Gage	RM	Room	SUBFL	Subfloor(ng)	UL	Underwriters Laboratories, Inc.
ADJ	Adjustable/Adjacent	CO	Clear Out	EPFL	Epoxy Flooring	GB	Grab Bar	RND	Round	SUP	Supply	UNFIN	Unfinished
AFF	Above Finish Floor	COL	Column	EQ	Epoxy Paint	GC	General Contractor	ROU	Rough Opening	SUPP	Support/Supplement(a)	UNO	Unless Noted Otherwise
AGGR	Aggregate	COMB	Combination/Combustible	EQ	Equal	GEN	General/Generator	ROW	Right of Way	SURF	Surface	UR	Urinal
ALT	Alternate/Alteration	COMP	Compress(ed)/Composite	EQUIP	Equipment	GL	Glass/Glazing/Glazed	RS	Resilient Sheet	SUSP	Suspend(ed)	UTIL	Utility
ALUM	Aluminum	CONC	Concrete	EST	Electronic Security	GLAM	Glue Laminated	R&S	Rod and Shelf	S.V.	Safety Vestibule	UV	Unit Ventilator
AMT	Amount	COND	Conduit/Condition	EST	Estimate(d)	GND	Ground	RT	Resilient Tile	S&V	Stain & Varnish	VAP	Vapor
ANCH	Anchor	CONF	Conference	ETC	Et Cetera	GWB	Gypsum Wallboard	RTN	Return	SWCG	Special Wall Coating	VAR	Variable/Varnish/Varies
ANOD	Anodized (Anodic Coating)	CONN	Connect(ion)	EW	Each Way	GYP	Gypsum	SAB	Sound Absorption Batt	SYN	Synthetic	VB	Vapor Barrier
APPROX	Approximate(ly)	CONSTR	Construction	EWC	Electric Water Cooler	HA	Handicapped Accessible	SAN	Sanitary	SYN	System	V.C.	Violent Cell
ARCH	Architectural	CONT	Continuous/Continuous	EXAM	Examination/Examining	HB	Hose Bibb	SCH	Schedule	T	Top, Tread, Toilet	VEH	Vehicle
ARCH	Architectural	CONTR	Contractor	EXC	Excavated/Excavation	HC	Hose Cabinet/ Handicap/Hollow Core	SCHD	Schedule	T&B	Top and Bottom	VENT	Ventilation/Ventilate/Ventilator
ASPH	Asphalt(ic)	COORD	Coordinator	EXH	Exhaust	H.C.S.O.	Single Occupant Cell	SCN	Screen	TB	Towel Bar	VEN	Veneer
ASST	Assistant	CORR	Corridor	EXIST (E)	Existing	HCW	Hollow Core Wood/ Hot and Cold Water	SCW	Soft Core Wood	TD	To Be Determined	VERT	Vertical
ATS	Automatic Transfer Switch	CPT	Carpet	EXP	Exposed/Expansion	HIC WTR	Hot and Cold Water	SD	Soap Dispenser/Soap Dish	TBD	To Be Determined	VEST	Vestibule
AUTO	Automatic	CSWK	Casework	EXT	Exterior	HDBD	Hardboard	SECT	Section	TBS	To Be Selected	VG	Vertical Grain
AUX	Auxiliary	CT	Ceramic Tile	FA	Fire Alarm	HDR	Header	SET	Setting	T/C	Top of Cutb/	VOL	Volume
AV	Audio Visual	CTR	Center	FAB	Fabricate/Fabricator/Fabric	HDW	Hardware	SF	Square Feet	TD	Top of Concrete	VP	Veneer Plaster
AVG	Average	D	Detention	FDB	Floor Drain	HDWR	Hardware	SFC	Special Floor Coating	TEL	Telephone	W	With
BAL	Balance	D.A.F.S.	Direct Applied Finish System	FD	Field Verify	HDTW	Hardwood	SFP	Sprayed on Fireproofing	TEMP	Temperature/Tempered/ Temporary	WAIN	Wainscot
BB	Bullpen Board	DBL	Double	FDC	Fire Department Connection	HGT(H)	Height	SHR	Shower	SHT	Sheet	WB	White Board/Wood Base
B/C	Bottom of Curb	DE	Detention Equipment	FDN	Foundation	HGT(H)	Height	SK	Sink/Sketch	TERR	Terrazzo	WC	Water Closet
BD	Board	DEG	Degree(s)	FDPDR	Fire Dampener	HR	Hour	SIM	Similar	TG	Tempered Glass	WCG	Wall Covering
BL	Building Line	DEP	Department	FDV	Fire Department Valve	HS	Hook Strip/High Strength	SLR	Sealer	T&G	Tongue and Groove	WD	Wood
BLDG	Building	DEM	Demolition/Demolition	FEC	Fire Dept. Valve Cabinet	HSK	Housekeeping	SM	Sheet Metal	TGB	Tempered Hardboard	WDW	Window
BLK	Block(ing)	DET	Detail	FE	Fire Extinguisher	HTR	Heater	SND	Sanitary Napkin Dispenser	TH	Thermoplastic	WF	Wide Flange (steel)
BM	Bench Mark/Beam	DF	Drinking Fountain	FEB	Fire Extinguisher Bracket	HVAC	Heating/Ventilation/ Air Conditioning	SNT	Sealant	THK	Thickness	WG	Wire Glass/Wall Grill
B.O.	Bottom Of	DIA	Diameter	FEC	Fire Extinguisher Cab.	A/C	Air Conditioning	SNR	Sanitary Napkin Receptacle	THRES	Threshold	WL	Water Line
BOT	Bottom	DIAG	Diagonal	FHC	Fire Hose Cabinet	HWY	Highway	S.D.	Single Occupancy Cell	THRU	Through	WID	Without
BSMT	Basement	DMH	Dimension	FHEC	Fire Hose & Extinguisher Cab.	HYD	Hydrant	SP	Standpipe/Shear Plate	TJ	Telephone Jack	WP	Waterproof(ing)/Work Point/
CAB	Cabinet	DIST	Distance	FIN	Finish(ed)	ID	Inside Diameter (Dim.)	SPEC	Specification/Specified	TKBD	Taskboard	WR	Weather Proof
CB	Catch Basin	DIV	Division/Divider	FIN	Finish(ed)	IE	Insulating Glass	SPL	Speaker	TOI	Toilet	WRT	Weather Resistant/Waste Receptacle
C/C	Center to Center	DN	Down	FLASH	Flashing	IMP	Insulated Metal Panel	SPR	Sprinkler	T.O.M.	Top of Masonry	WT	Weight
CCTV	Closed Circuit TV	D.O.	Double Occupancy Cell	FLEX	Flexible	IN	Inch	SPRNT	Special Paint	TOP	Topping	YD	Yard Drain
CEMPL	Cement Plaster	D.U.	Dirty Utility Room	FLR	Floor(ing)	INCAND	Incandescent	ST	Staff Toilet	TOS	Top of Steel		
CER	Ceramic	DWL	Dowel	FLUR	Fluorescent	INCL	Include(ing)	STK	Service Sink	TR	Tread		
CG	Corner Guard	DWR	Drawer	FOS	Face of Stud	IND	Industrial	ST	Street/Stream </td <td>TRK</td> <td>Track</td> <td></td> <td></td>	TRK	Track		
CH	Coat Hook	EA	Each	FRM	Framing	INFO	Information	SST	Stainless Steel	T/S	Top of Slab		
CHAN	Channel	EJ	Expansion Joint	FRT	Fire Retardant	ING	Insulating Glass	STA	Station	T/ST	Top of Steel		
CHKBD	Chalkboard	EB	Expansion Bolt	FS	Full Size/Floor Sink	INSTL	Installation/Install						
CHN	Chalk-in-Place (concrete)	EJ	Expansion Joint	FS	Full Size/Floor Sink	INSUL	Insulate(d) (ing)						
CIP	Cast-in-Place (concrete)	ELEC	Electric(al)	FT	Foot/Foot								
CJ	Control Joint												

**ASA ARCHITECTS**

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90% CD NOT FOR CONSTRUCTION

**OEM EMERGENCY OPERATIONS CENTER**  
TORTUGAS TRAILS, LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION
1	JANUARY 03 2025	

PROJECT NO.: 22115L

FILE NAME: Author

DRAWN BY: Checker

CHECKED BY: Checker

SHEET TITLE:

**GENERAL INFORMATION AND PROJECT DATA**

SHEET NO.: G-100

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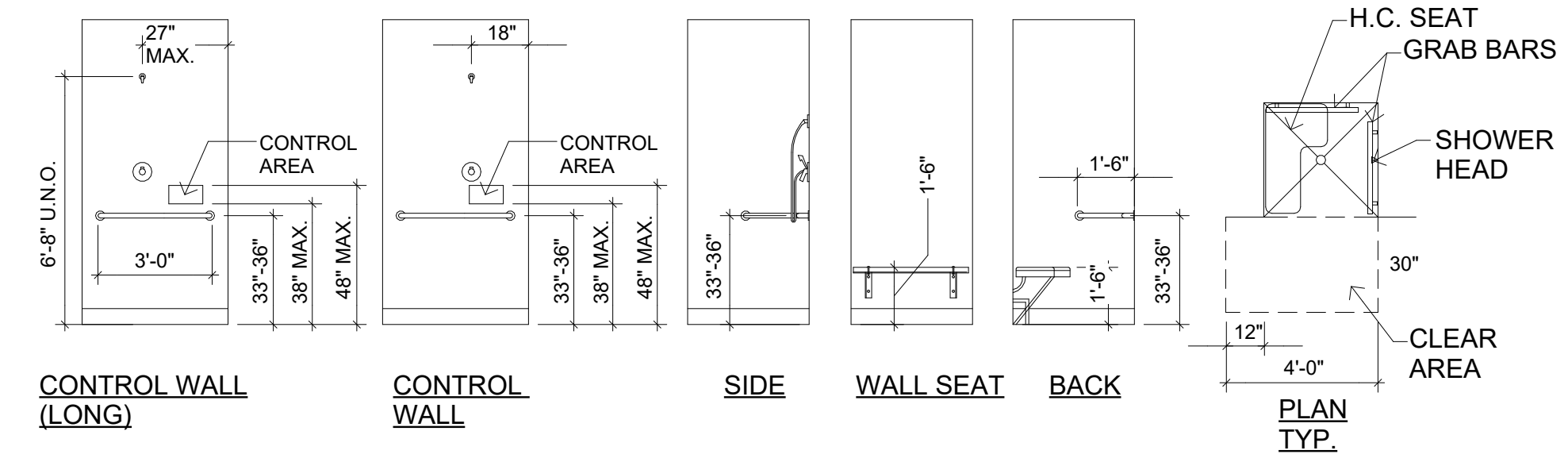
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ISSUE	January 03 2025	

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DRAWN BY:	Author
CHECKED BY:	Checker
SHEET TITLE:	

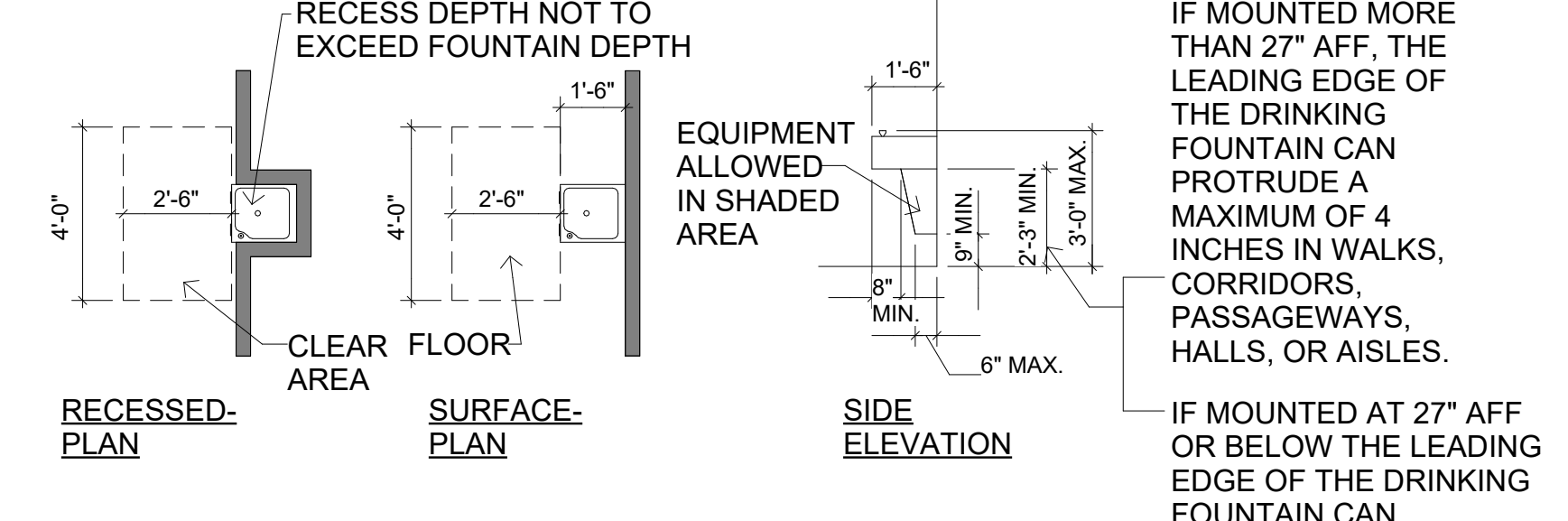
ACCESSIBILITY STANDARDS

SHEET NO:  
**G-101**

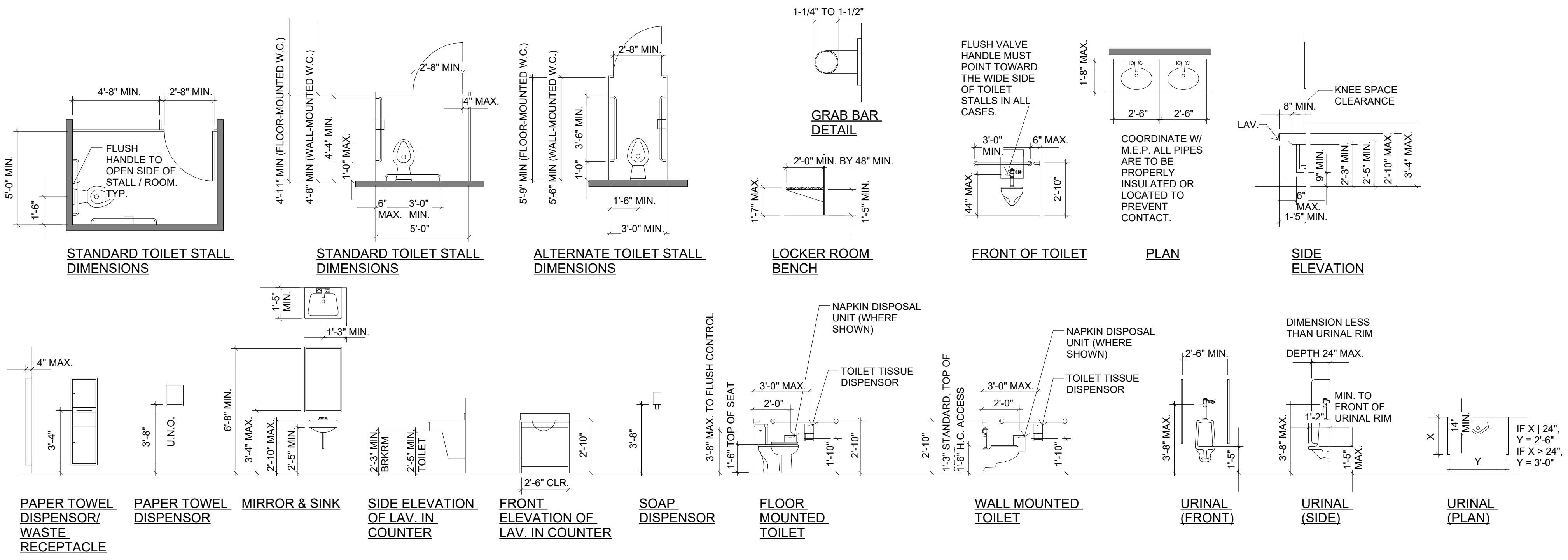
- ### ACCESSIBILITY GENERAL NOTES
1. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL DRAWINGS AND THE INFORMATION GIVEN ON THIS SHEET.
  2. DO NOT SCALE THESE DRAWINGS.
  3. DIMENSIONS INDICATED ARE THE MINIMUM CLEAR DIMENSIONS REQUIRED BY ICC/ANSI A117.1-2003. THE CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF BUILDING ELEMENTS TO ASSURE THAT DIMENSIONS SHOWN ARE PROVIDED.
  4. NOT ALL CONDITIONS SHOWN ON THIS SHEET MAY BE REQUIRED BY THIS PROJECT. COMPARE THE REQUIREMENTS OF THE ARCHITECTURAL DRAWINGS WITH THIS SHEET FOR RELEVANCE OF INFORMATION.
  5. REFERENCE ACCESSIBLE DIMENSIONS LEGEND FOR ACCESSIBLE MOUNTING HEIGHTS OF ALL FIXTURES & ACCESSORIES LOCATED THROUGHOUT CONTRACT DOCUMENTS.
  6. DIMENSIONS SHOWN ON INTERIOR ELEVATIONS AT WALLS ARE TO THE FINISHED SURFACE.
  7. ALL EXPOSED PIPE UNDER SINKS ARE TO BE WRAPPED OR PROTECTED.
  8. DIMENSIONS TO BOTTOM OF MIRRORS ARE TO THE REFLECTIVE SURFACE, NOT TO THE FRAME.
  9. PROVIDE WOOD BLOCKING AS NEEDED TO SECURE GRAB BARS AND SHOWER SEATS TO STUD FRAMING WALLS.



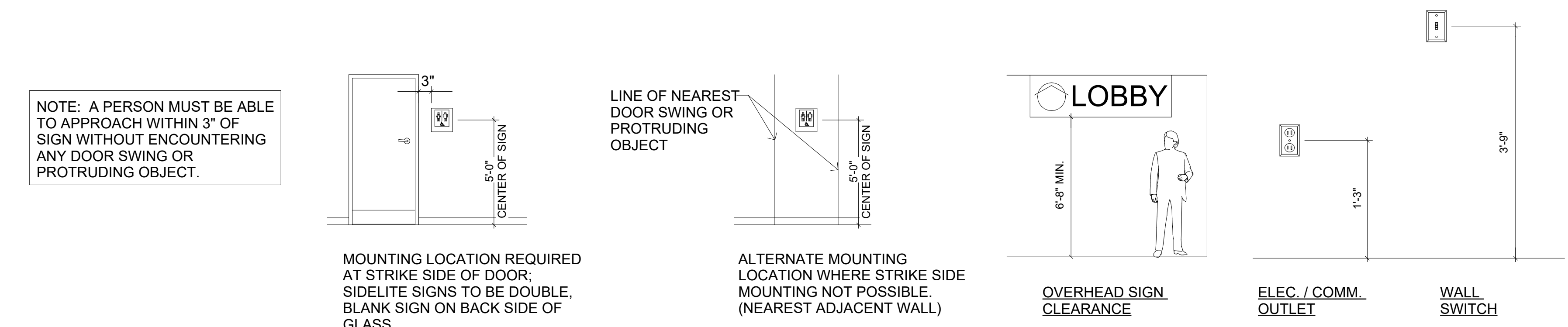
**SHOWERS:** NOTE: SHOWER HEAD AND CONTROLS @ H.C. SHOWERS MUST BE @ OPPOSITE SIDE WALL FROM H.C. SHOWER SEAT



**DRINKING FOUNTAIN STANDARDS:**



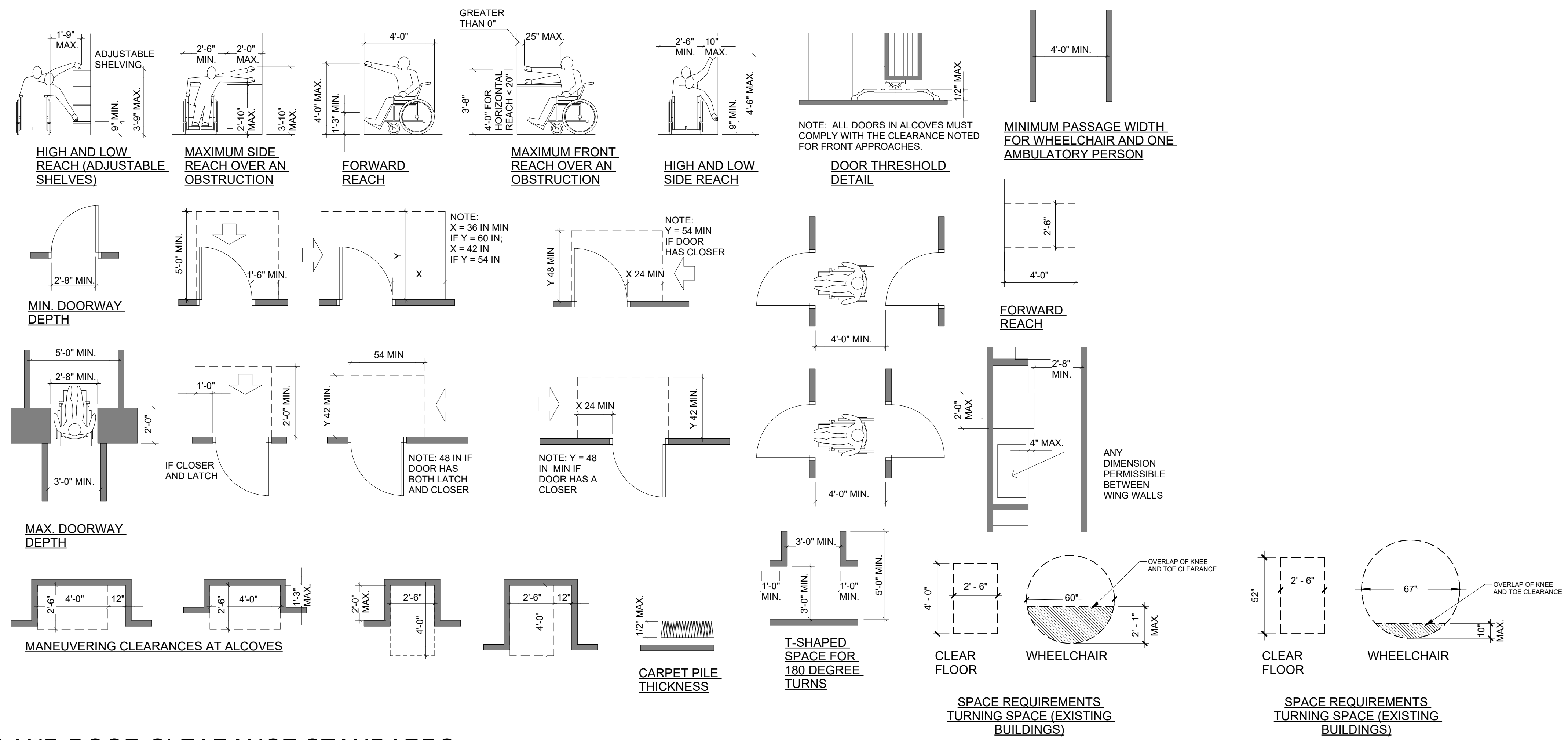
**TOILET STALL AND TOILET ACCESSORY STANDARDS:**



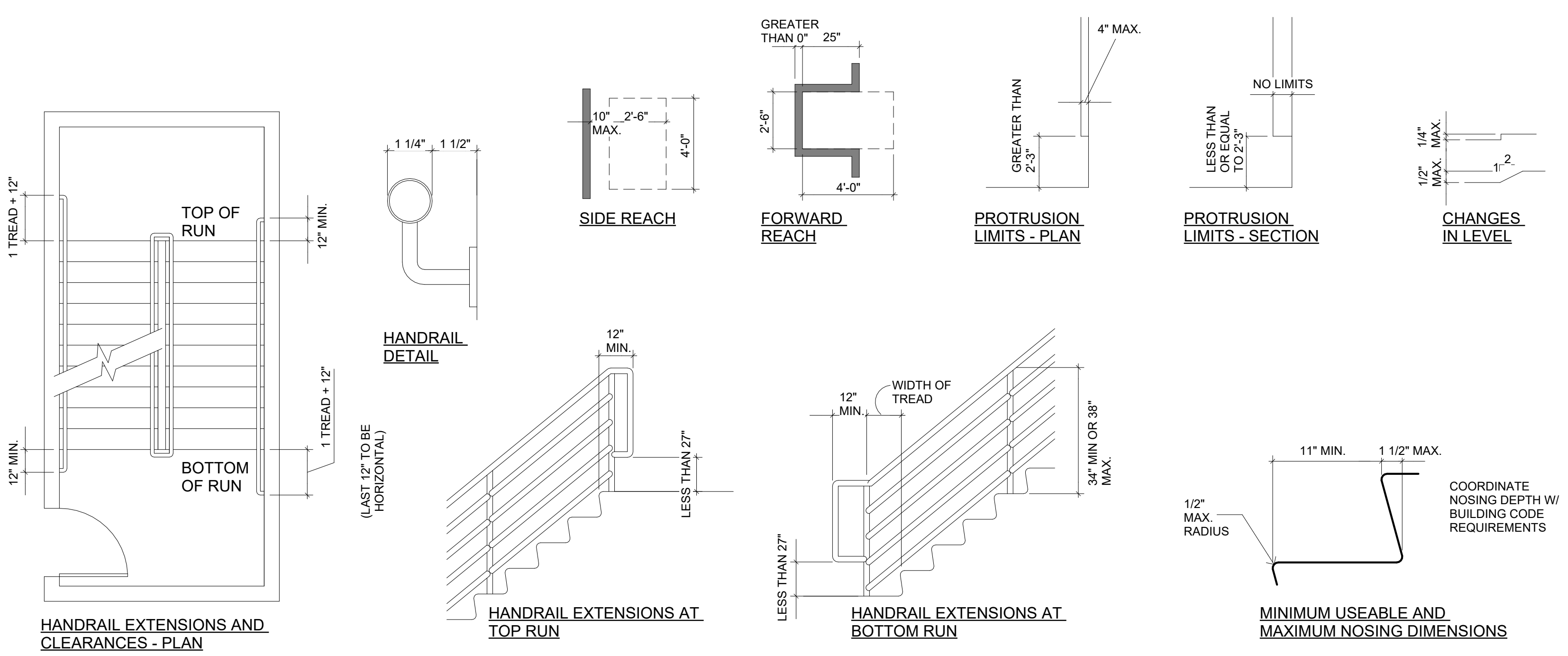
**SIGNAGE MOUNTING HEIGHTS:**

**MOUNTING HEIGHTS:**

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**REACH AND DOOR CLEARANCE STANDARDS:**



**STAIR AND RAILING STANDARDS**

90% CD  
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 CONSTRUCTION

**OEM EMERGENCY OPERATIONS CENTER**  
 TORTUGAS TRAILS, LAS CRUCES, NM  
 FOR: DOÑA ANA COUNTY  
 845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION

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**ROOM SCHEDULE BASE BID**

No.	NAME	NET AREA
01	VEST	80 SF
02	LOBBY	683 SF
03	RECEPTION	219 SF
04	MEN	48 SF
05	WOMEN	45 SF
06	STOR	102 SF
07	CORRIDOR	397 SF
08	OEM OFFICE	159 SF
09	OEM OFFICE	158 SF
10	OEM OFFICE	158 SF
11	OEM OFFICE	158 SF
12	VEND	81 SF
13	CORRIDOR	391 SF
14	COURTYARD	548 SF
15	BREAK ROOM	298 SF
16	OEM OFFICE	155 SF
17	LACT.	76 SF
18	OEM OFFICE	156 SF
19	FILE ROOM	250 SF
20	OEM OFFICE	156 SF
21	PRINT ROOM	463 SF
22	SECURE OEM OFFICE	150 SF
23	CORRIDOR	367 SF
24	CORRIDOR	590 SF
25	NORTH VEST.	81 SF
26	MEN	111 SF
27	REST/SH	95 SF
28	REST/SH	97 SF
29	WOMEN	165 SF
30	CLASSROOM	1706 SF
31	STOR	17 SF
32	JANITOR	96 SF
34	ADDITIONAL STORAGE	124 SF
35	IT SERVICE + BACK UP	448 SF
36	MEN	98 SF
37	WOMEN	100 SF
38	EMERGENCY OPS CENTER	2937 SF
39	NORTH VESTIBULE	251 SF
40	LEO CONF.	373 SF
41	JIC/PIO CONF.	378 SF
42	LOGISTICS CONF.	370 SF
43	FIRE CONF.	378 SF
44	PLAN CONF.	372 SF
45	FINANCIAL CONF.	372 SF
47	AMATEUR RADIO OPS	146 SF
48	EXT. TLT.	59 SF
49	EXT. SHW.	50 SF
50	EXT. SHW.	52 SF
51	EXT. TLT.	59 SF
52	MECH/F.R.	169 SF
53	EAST VESTIBULE	74 SF
54	STORAGE	80 SF
55	ELEC.	158 SF
53		15296 SF

**GENERAL NOTES**

1. INTERIOR DIMENSIONS ARE THE FACE OF STUD, UNLESS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO THE FACE OF MASONRY OR OTHER EXTERIOR FINISH, UNLESS NOTED OTHERWISE. MASONRY DIMENSIONS ARE NOMINAL, UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS G-103 FOR LIFE SAFETY INFORMATION.
3. REFER TO SHEET G-104 SERIES DRAWINGS FOR PARTITION TYPES, FRAMING DETAILS, AND SCHEDULES.
4. LOCATE DOORS 6" FROM NEAREST CORNER TO OUTSIDE EDGE OF FRAME, UNLESS NOTED OTHERWISE.
5. ALL DIMENSIONS TO BE VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES SHALL BE PROMPTLY REPORTED TO THE ARCHITECT.
6. ALL DIMENSIONS ARE NOMINAL TO THE NEAREST 1/8"
7. VERIFY AND MATCH ALL WINDOW AND DOOR OPENINGS WITH MANUFACTURER'S ROUGH OPENING DIMENSIONS.
8. ALL SURROUNDING FLATWORK SHALL SLOPE AWAY FROM THE BUILDING AT A SLOPE NOT EXCEEDING 1/50 (2%) IN ALL DIRECTIONS.
9. ALL DOOR THRESHOLDS SHALL NOT EXCEED 0.5", REFERENCE SECTION 303 @ G-003.

**ASA ARCHITECTS**

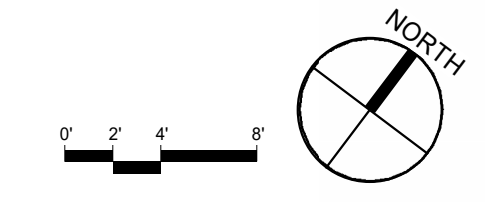
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**FLOOR PLAN**

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



**OEM EMERGENCY OPERATIONS CENTER**  
TORTUGAS TRAILS, LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION	ISSUE

PROJECT NO.: 22115L  
FILE NAME:   
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CHECKED BY: ASA  
SHEET TITLE:

**OVERALL FLOOR PLAN**

SHEET NO.:  
**A-101**

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### GENERAL NOTES

1. INTERIOR DIMENSIONS ARE THE FACE OF STUD, UNLESS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO THE FACE OF MASONRY OR OTHER EXTERIOR FINISH, UNLESS NOTED OTHERWISE. MASONRY DIMENSIONS ARE NOMINAL, UNLESS NOTED OTHERWISE.
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3. REFER TO SHEET G-104 SERIES DRAWINGS FOR PARTITION TYPES, FRAMING DETAILS, AND SCHEDULES.
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CONSTRUCTION

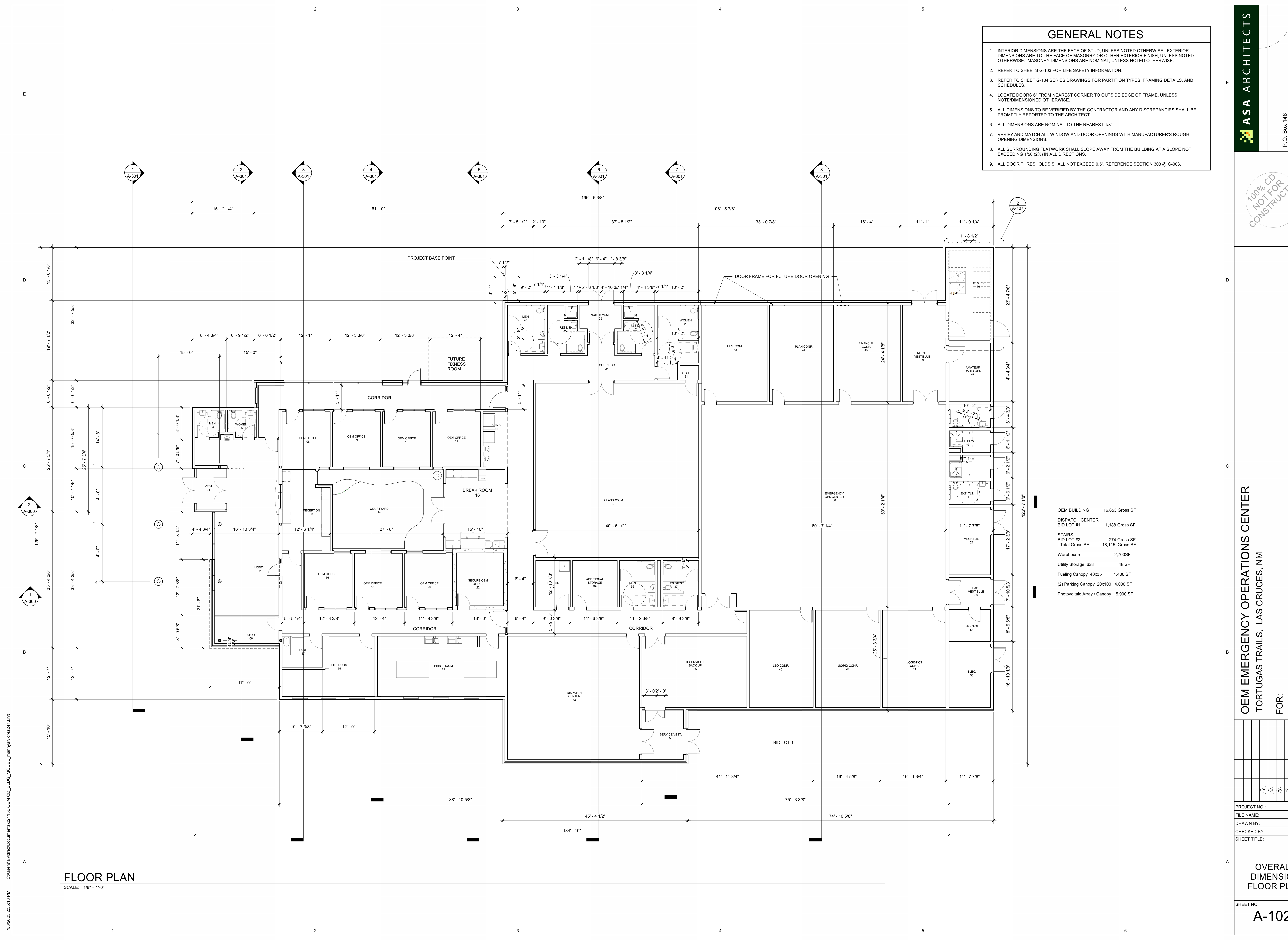
OEM EMERGENCY OPERATIONS CENTER  
TORTUGAS TRAILS, LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

OEM BUILDING	16,653 Gross SF
DISPATCH CENTER	
BID LOT #1	1,188 Gross SF
STAIRS	
BID LOT #2	274 Gross SF
Total Gross SF	18,115 Gross SF
Warehouse	2,700SF
Utility Storage 6x8	48 SF
Fueling Canopy 40x35	1,400 SF
(2) Parking Canopy 20x100	4,000 SF
Photovoltaic Array / Canopy	5,900 SF

### FLOOR PLAN

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

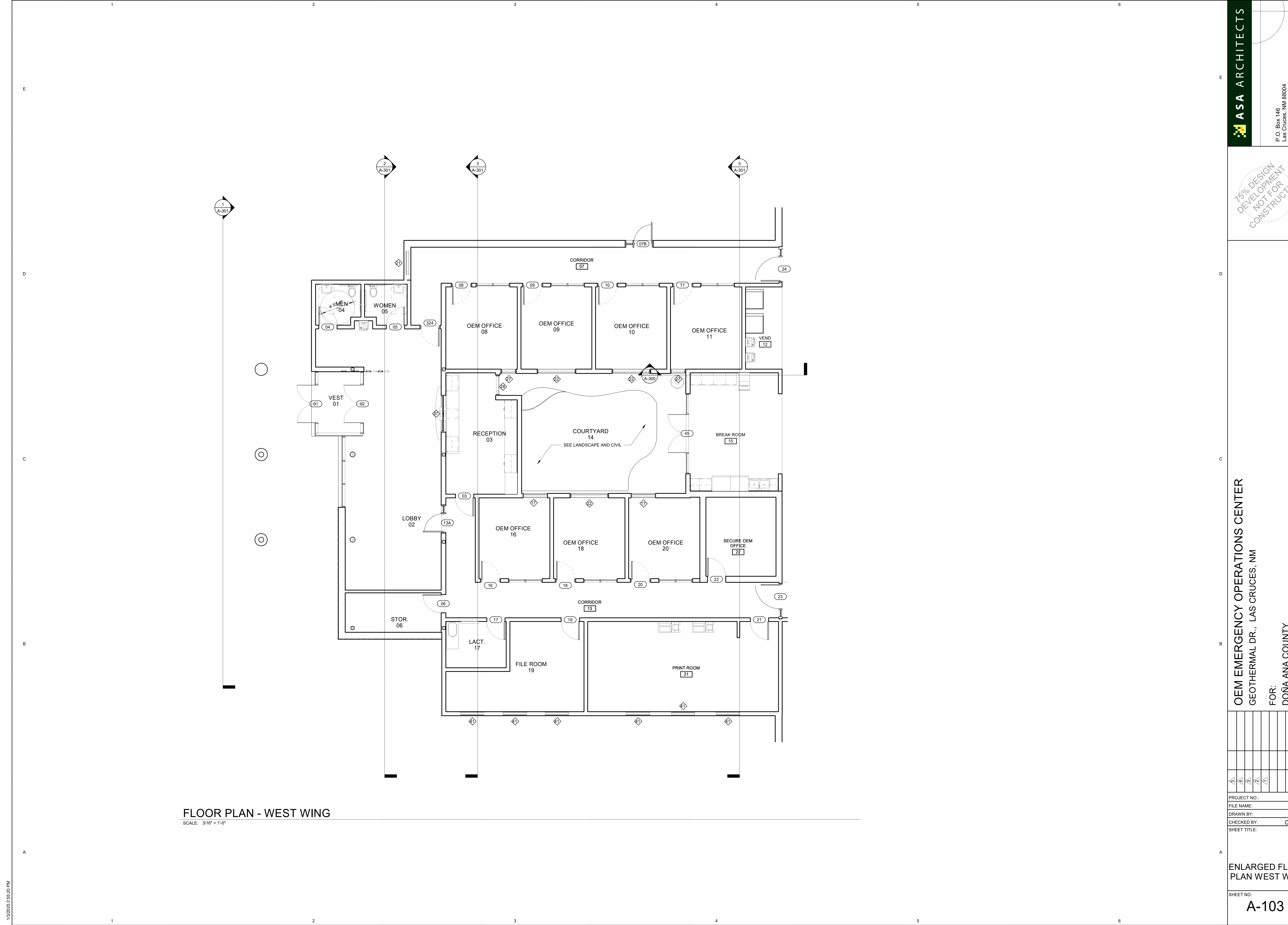


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PROJECT NO.: 22115L  
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SHEET TITLE:

OVERALL DIMENSION FLOOR PLAN

SHEET NO:  
A-102



**FLOOR PLAN - WEST WING**  
 SCALE: 3/16" = 1'-0"

75% DESIGN  
 DEVELOPMENT  
 NOT FOR  
 CONSTRUCTION

**OEM EMERGENCY OPERATIONS CENTER**  
 GEOTHERMAL DR., LAS CRUCES, NM  
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 DRAWN BY: Author  
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**ENLARGED FLOOR PLAN WEST WING**

SHEET NO:  
**A-103**

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**ENLARGED FLOOR PLAN EAST WING**

SHEET NO:  
**A-104**

**GENERAL NOTES**

1. INTERIOR DIMENSIONS ARE THE FACE OF STUD, UNLESS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO THE FACE OF MASONRY OR OTHER EXTERIOR FINISH, UNLESS NOTED OTHERWISE. MASONRY DIMENSIONS ARE NOMINAL, UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS G-103 FOR LIFE SAFETY INFORMATION.
3. REFER TO SHEET G-104 SERIES DRAWINGS FOR PARTITION TYPES, FRAMING DETAILS, AND SCHEDULES.
4. LOCATE DOORS 6" FROM NEAREST CORNER TO OUTSIDE EDGE OF FRAME, UNLESS NOTE/DIMENSIONED OTHERWISE.
5. ALL DIMENSIONS TO BE VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES SHALL BE PROMPTLY REPORTED TO THE ARCHITECT.
6. ALL DIMENSIONS ARE NOMINAL TO THE NEAREST 1/8"
7. VERIFY AND MATCH ALL WINDOW AND DOOR OPENINGS WITH MANUFACTURER'S ROUGH OPENING DIMENSIONS.
8. ALL SURROUNDING FLATWORK SHALL SLOPE AWAY FROM THE BUILDING AT A SLOPE NOT EXCEEDING 1/50 (2%) IN ALL DIRECTIONS.
9. ALL DOOR THRESHOLDS SHALL NOT EXCEED 0.5", REFERENCE SECTION 303 @ G-003.



**1 FLOOR PLAN - EAST WING**  
 SCALE: 3/16" = 1'-0"



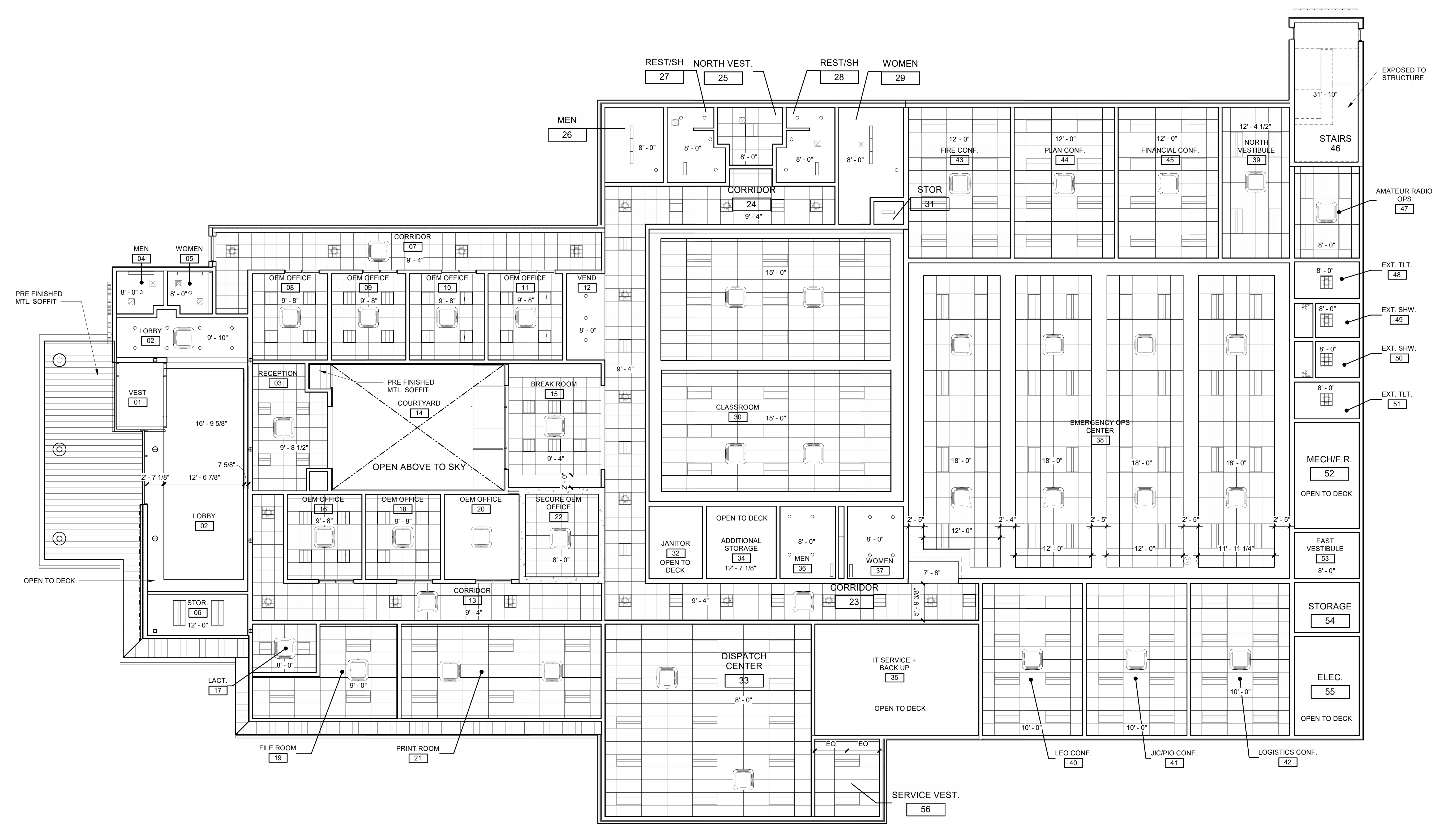


REFLECTED CEILING GENERAL NOTES

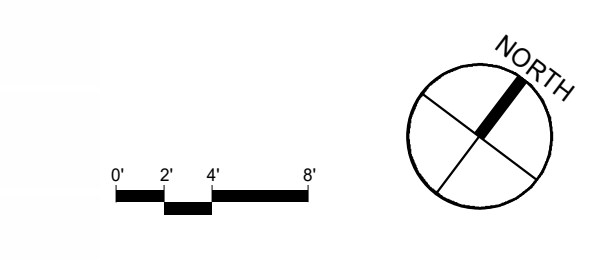
1. CEILING TILE, LIGHT FIXTURES, AND OTHER ITEMS SCHEDULED ON DRAWINGS MUST BE LOCATED PER REFLECTED CEILING PLANS. THE CONTRACTOR MUST USE EXTREME CARE IN COORDINATING THEIR WORK TO FIT THE PATTERN SHOWN ON THE REFLECTED CEILING PLANS. IF A CONFLICT OCCURS BETWEEN THE MECHANICAL, PLUMBING, OR FIRE SUPPRESSION SYSTEMS AND THE COORDINATION OF LIGHT FIXTURES ABOVE THE CEILING, THE CONTRACTOR MUST CONTACT THE ARCHITECT FOR INTERPRETATION. NO CHANGES WILL BE MADE WITHOUT PRIOR CONSULTATION WITH THE ARCHITECT PRIOR TO THE COMMENCEMENT OF THE WORK.
2. SWITCHES, DIMMERS, THERMOSTATS, CONTROL DEVICES, AND COVERPLATE COLORS ARE TO BE SELECTED BY ARCHITECT.
3. CEILING ELEMENTS SUCH AS DOWNLIGHTS, SPRINKLERS, SMOKE DETECTORS, SPEAKERS, STROBES, ETC., ARE TO BE CENTERED IN THE LAY-IN CEILING TILE U.N.O.
4. REFER TO ELECTRICAL LIGHTING DRAWINGS AND SPECIFICATIONS FOR FIXTURE TYPES.
5. REFER TO REFLECTED CEILING PLANS FOR ALL CEILING HEIGHTS.
6. SUSPENDED LIGHT FIXTURES IN ROOMS AND CORRIDORS ARE TO BE CENTERED WITH THE AREA U.N.O.
7. WHERE CEILING PANELS ARE REQUIRED TO BE CUT, THE CONTRACTOR MUST MAINTAIN A SHARP AND NEAT APPEARANCE.
8. FINAL LOCATIONS OF EXIT SIGNS AND EMERGENCY LIGHTING ARE SUBJECT TO THE APPROVAL OF THE GOVERNING JURISDICTION. ANY RELOCATION MUST BE AT THE CONTRACTOR'S EXPENSE.
9. CEILING ACCESS PANEL FINISH TO MATCH ADJACENT CEILING FINISH.
10. ALL CEILING HEIGHTS TAKEN FROM FINISH FLOOR.
11. ALL RESTROOMS SHALL BE FINISHED IN MOISTURE RESISTANT GYPSUM BOARD (WALLS & CEILINGS)
12. ACOUSTICAL CEILING TILE TO BE CENTERED IN ROOM UNLESS OTHERWISE NOTED.
13. RECESSED FIXTURES ARE TO BE CENTERED IN THE ROOM/CORRIDOR IF NO DIMENSION IS GIVEN.
14. REFER TO INTERIOR ELEVATIONS AND ELECTRICAL FOR LOCATION OF UNDER-COUNTER LIGHTING.
15. STABILIZE CEILING FANS IN BOTH DIRECTIONS IMMEDIATELY ABOVE ACT GRID.

CEILING LEGEND

	GYP. BD. CEILING
	2'-0" x 4'-0" SUSPENDED GRID WITH LAY-IN CEILING TILE. SEE FINISH SCHEDULE FOR CEILING TYPE.
	2'-0" x 2'-0" SUSPENDED GRID WITH LAY-IN CEILING TILE. SEE FINISH SCHEDULE FOR CEILING TYPE.
	2'-0" x 2'-0" LAY-IN LIGHT FIXTURE. REFERENCE ELECTRICAL
	2'-0" x 4'-0" LAY-IN LIGHT FIXTURE. REFERENCE ELECTRICAL
	PENDANT LIGHT FIXTURE. REFERENCE ELECTRICAL
	RECESSED CAN LIGHT FIXTURE. REFERENCE ELECTRICAL
	WALL MOUNTED LIGHT FIXTURE. REFERENCE ELECTRICAL
	EXIT LIGHT - REFERENCE ELECTRICAL
	LIGHT FIXTURE
	SKYLIGHT SOLAR TUBE
	MECHANICAL SUPPLY - REFERENCE MECHANICAL
	MECHANICAL SUPPLY - REFERENCE MECHANICAL
	MECHANICAL EXHAUST FAN - REFERENCE MECHANICAL
	MECHANICAL EXHAUST FAN - REFERENCE MECHANICAL
	CASSETTE FAN - REFERENCE MECHANICAL



1 REFLECTED CEILING PLAN  
SCALE: 1/8" = 1'-0"



OEM EMERGENCY OPERATIONS CENTER  
TORTUGAS TRAILS, LAS CRUCES, NM

FOR:  
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845 N MOTEL BLVD., LAS CRUCES, NM 88007

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REFLECTED CEILING PLAN

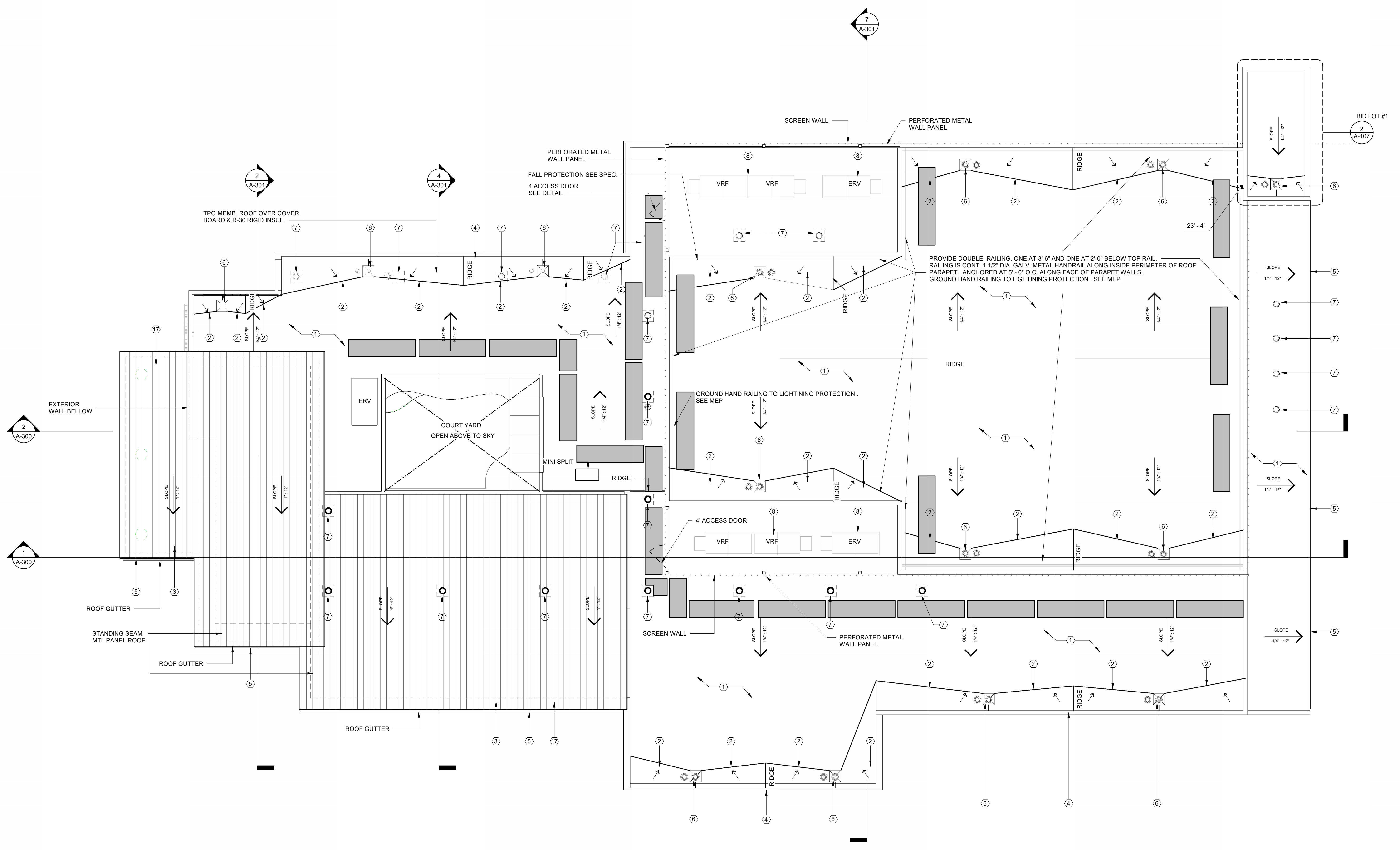
SHEET NO:  
A-105

### ROOF PLAN KEYNOTES

- 1 TPO ROOF SYSTEM, AS SPECIFIED.
- 2 ROOF CRICKET, ENSURE POSITIVE DRAINAGE TO ROOF DRAIN.
- 3 STANDING SEAM METAL ROOF, AS SPECIFIED.
- 4 METAL PARAPET CAP, REF. DETAIL C1 AND B1/A-501
- 5 METAL GUTTER SYSTEM, INSTALL PER MANUFACTURER RECOMMENDATIONS.
- 6 ROOF DRAIN AS SPECIFIED, REFERENCE PLUMBING AND DETAIL A3/A-500
- 7 SOLATUBE TUBULAR SKYLIGHT, AS SPECIFIED.
- 8 ROOFTOP MECHANICAL UNIT, REFERENCE MECHANICAL.
- 12 ROOF WALK-OFF MATT, AS SPECIFIED.
- 17 R - PANEL METAL ROOFING

### ROOF PLAN GENERAL NOTES

1. ROOFING CONTRACTOR TO REVIEW AND APPROVE ALL PROPOSED PENETRATIONS (MECHANICAL EQUIPMENT, PIPING, ETC.) PRIOR TO ISSUING SUBMITTALS.
2. INSTALL CRICKETS AT ALL ROOF DRAINS. CONSTRUCT ALL CRICKETS WITH A MINIMUM NET SLOPE OF 1/8" PER FOOT.
3. ALL WOOD BLOCKING IS TO BE FIRE RETARDANT TREATED.
4. ARROWS INDICATE DIRECTION OF DRAINAGE.
5. CONTRACTOR TO PROVIDE 25°/12" ROOF SLOPE, UNLESS NOTES OTHERWISE.
6. THE SIZE OF THE VERTICAL CONDUCTORS AND LEADERS, I.E., ROOF GUTTERS AND DOWNSPOUTS SHALL BE BASED ON 6" OF HOURLY RAINFALL, THEREFORE, ALLOWABLE AREA PER 4" DOWNSPOUT IS 3,070 SQ. FT. MAXIMUM.
7. IF DOWNSPOUTS ARE NOT CONNECTED TO SUBGRADE DRAINAGE PIPING, PROVIDE SPLASH BLOCKS AT ALL DOWNSPOUT (DS) LOCATIONS SHOWN ON PLANS AND ELEVATIONS.
8. GALVANIZED METAL MUST NOT BE INSTALLED OVER TREATED LUMBER.
9. CONTRACTOR MUST PROVIDE ROOF WALKWAY PAD PATHS FROM ROOF ACCESS TO ALL SIDES OF ROOF MOUNTED EQUIPMENT.



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

100% CD  
NOT FOR  
CONSTRUCTION

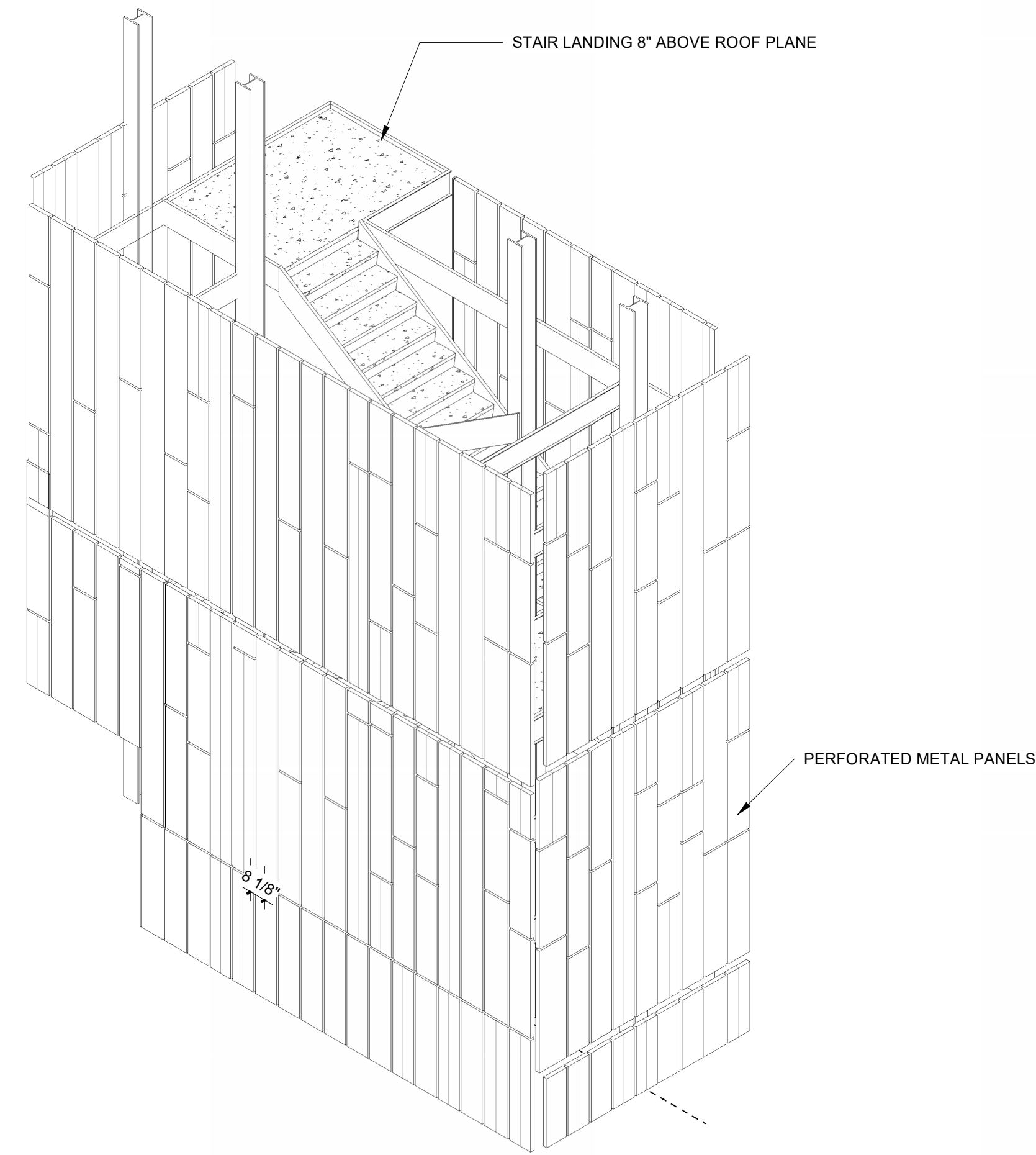
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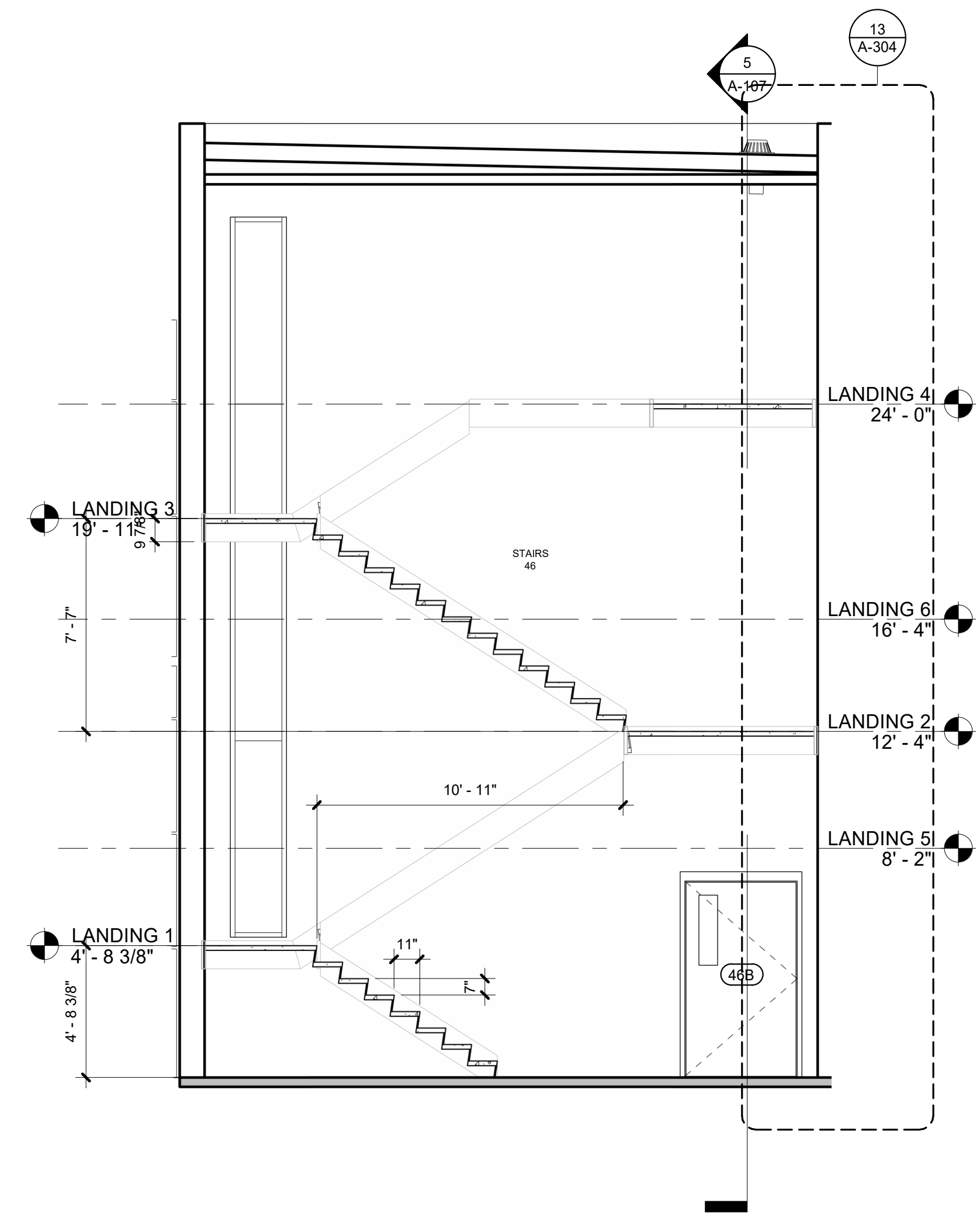
**ROOF PLAN**  
SHEET NO.: A-106

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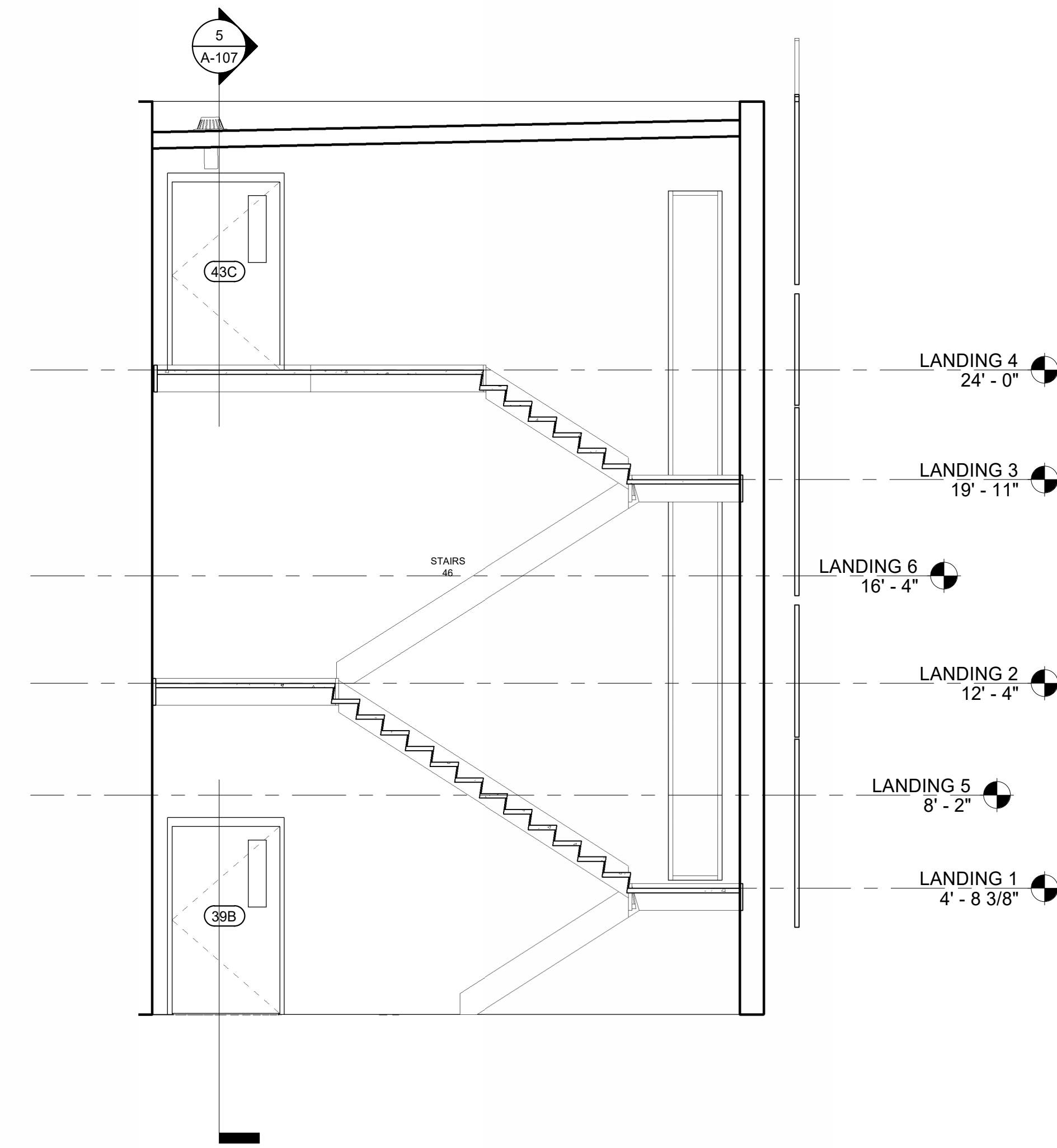


**3D STAIR TOWER**

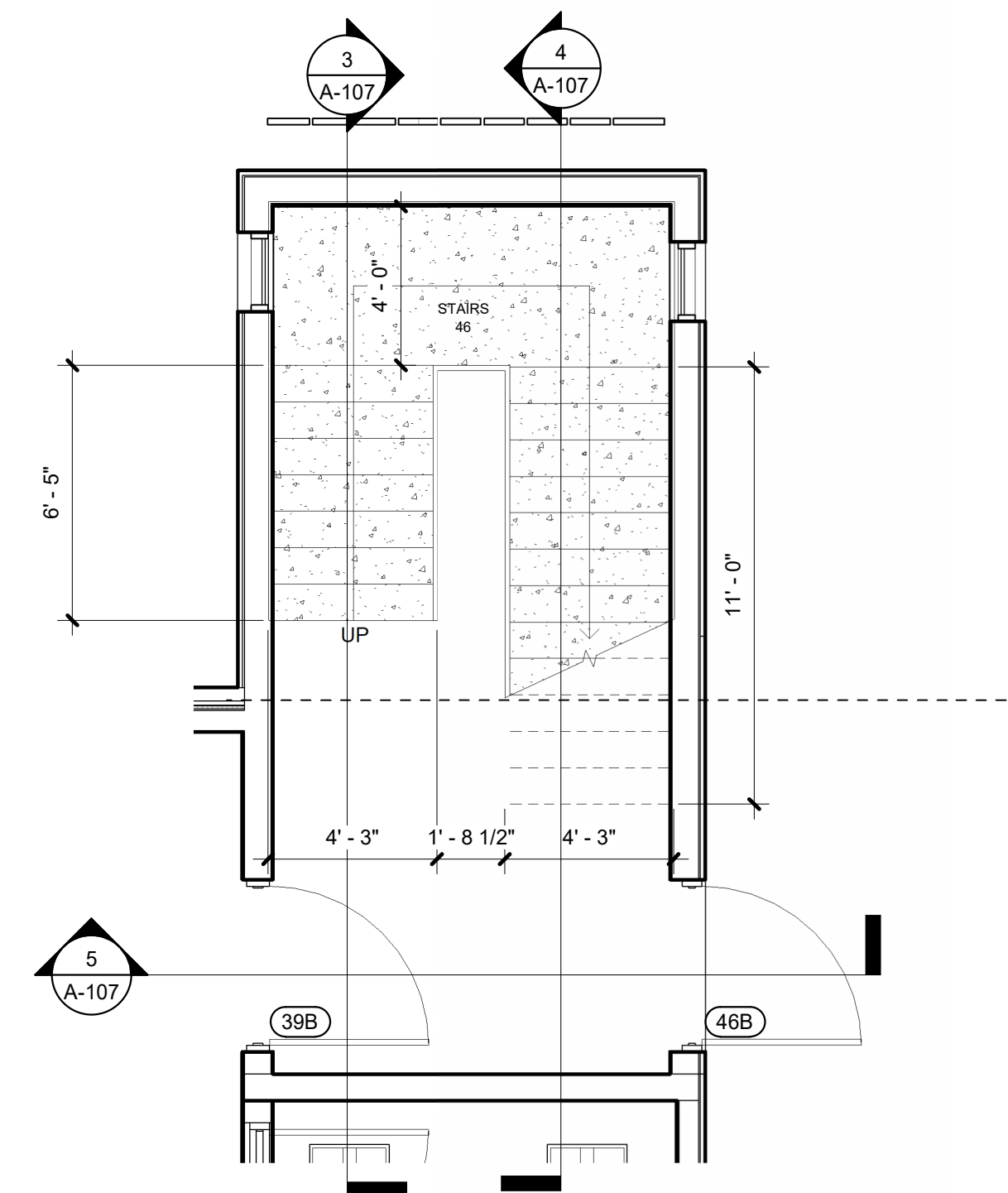
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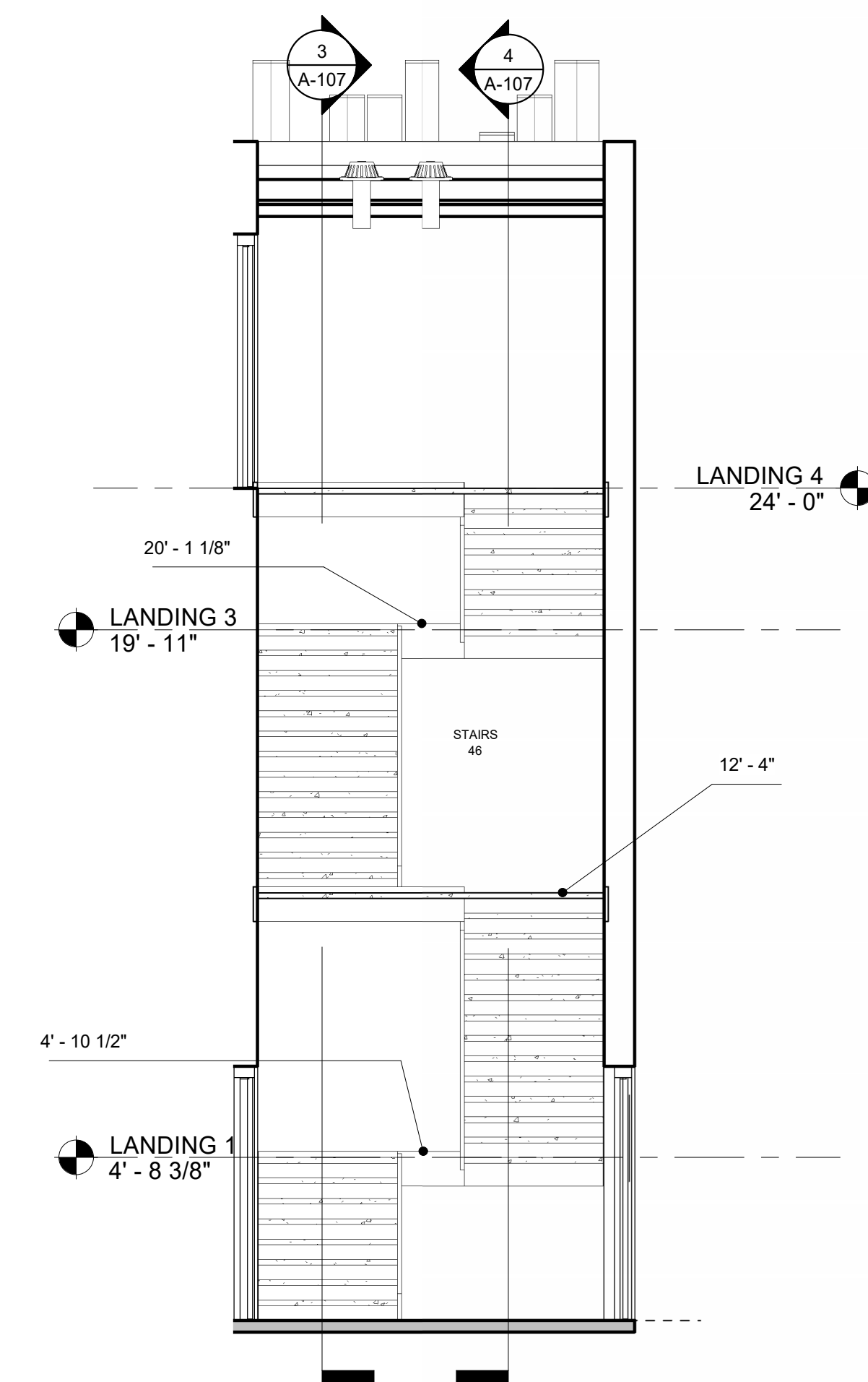
**3 STAIR SECTION**  
SCALE: 1/4" = 1'-0"



**4 STAIR SECTION**  
SCALE: 1/4" = 1'-0"



**2 BID LOT #1- STAIR TOWER**  
SCALE: 1/4" = 1'-0"



**5 STAIR SECTION**  
SCALE: 1/4" = 1'-0"

100% CD  
NOT FOR  
CONSTRUCTION

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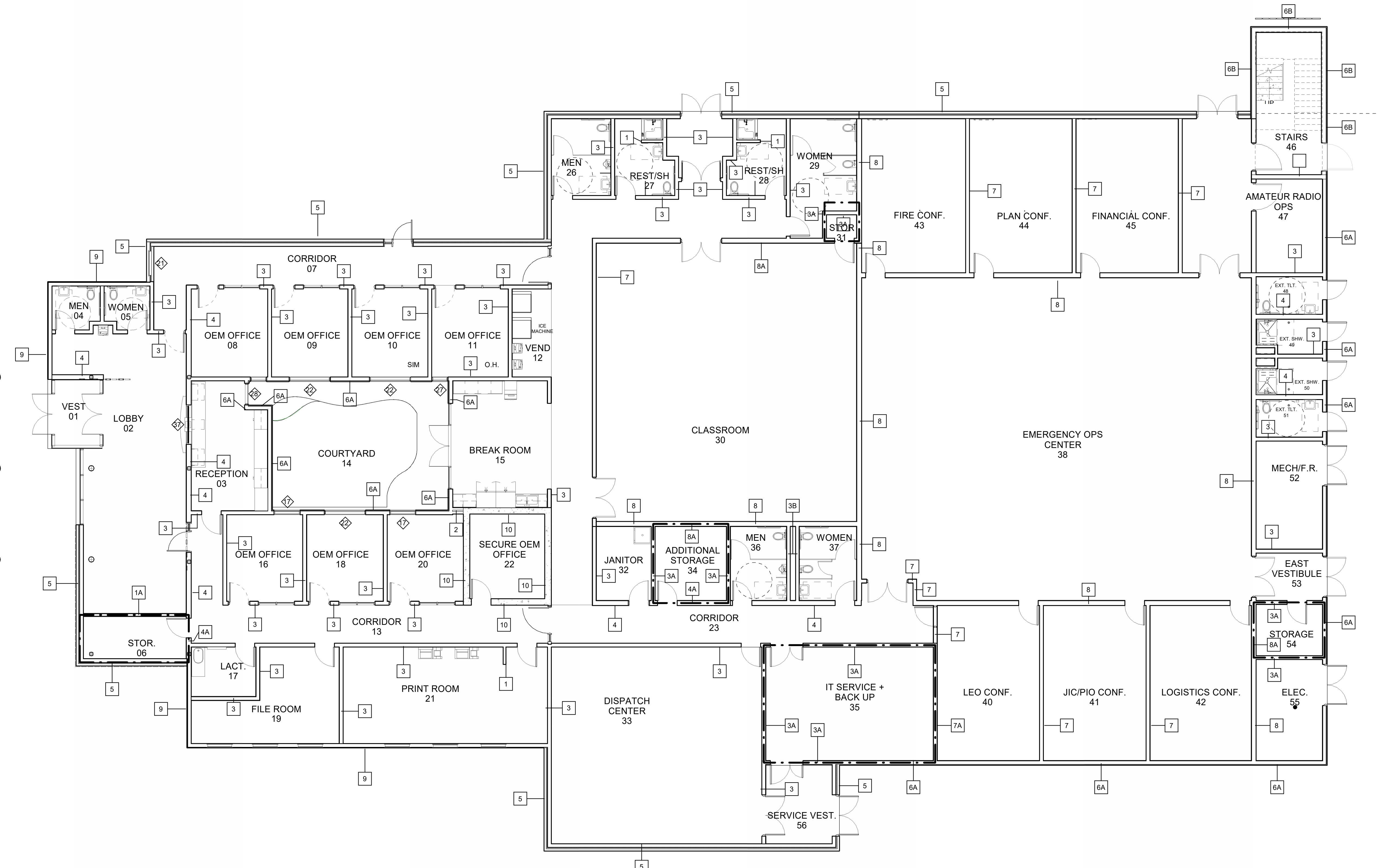
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**BID LOT #1- STAIR TOWER**

SHEET NO:  
**A-107**

RATED PARTITION LEGEND:

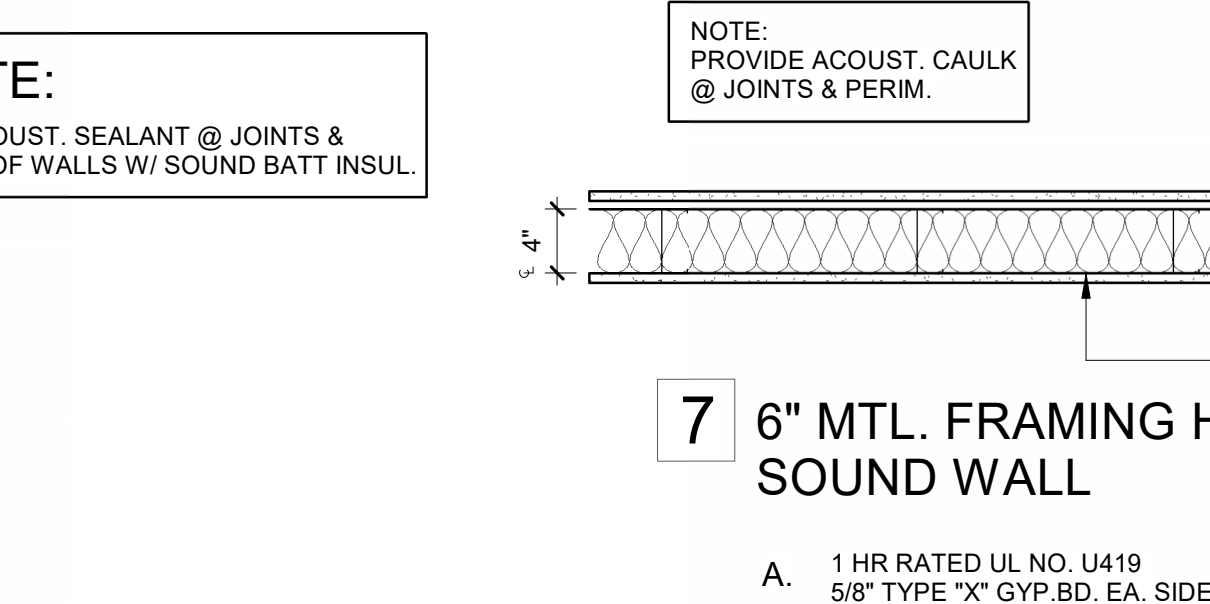
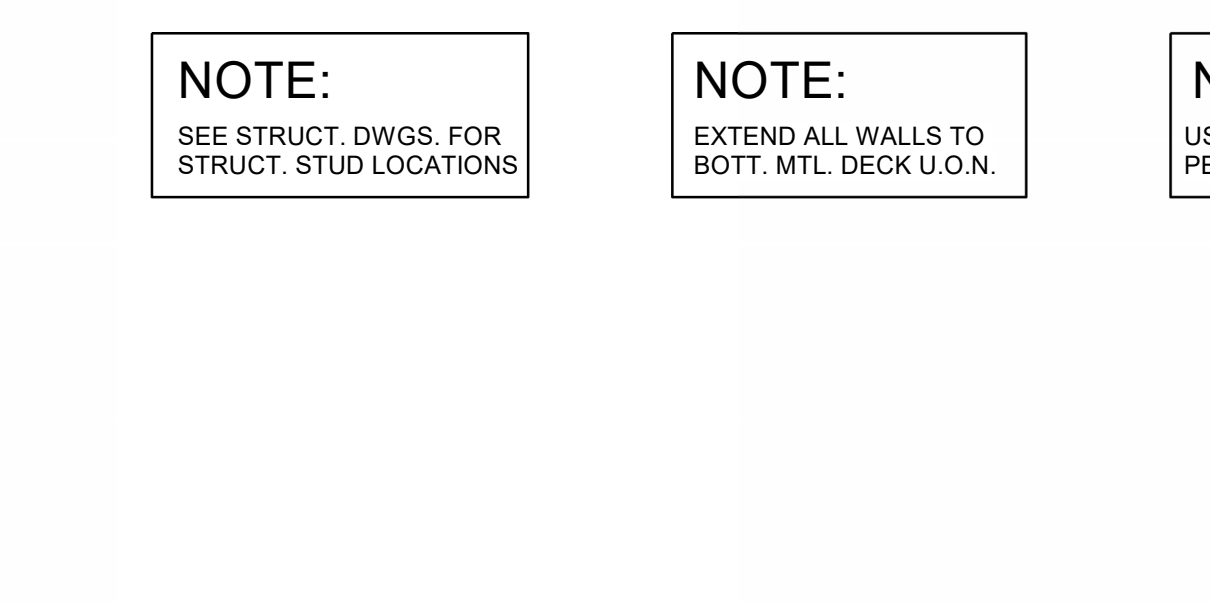
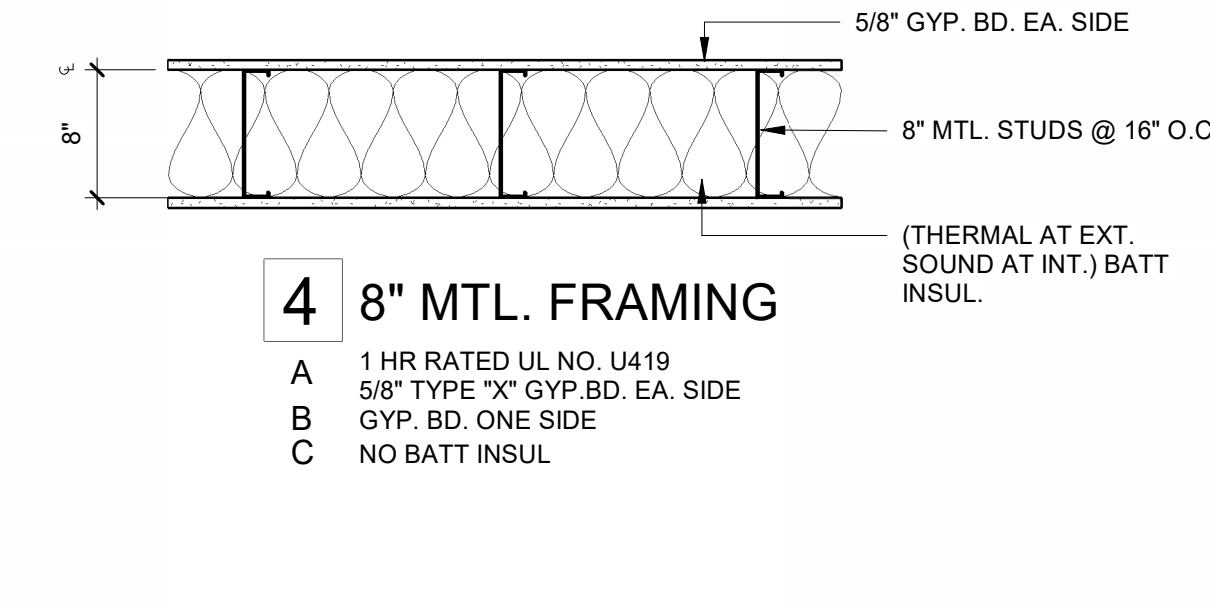
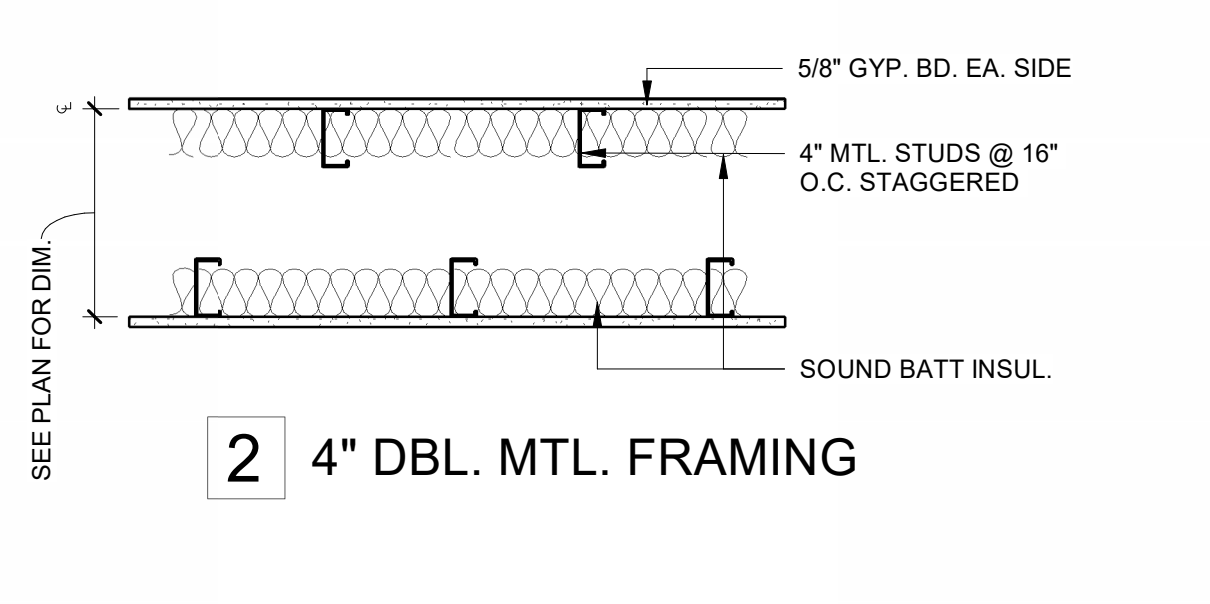
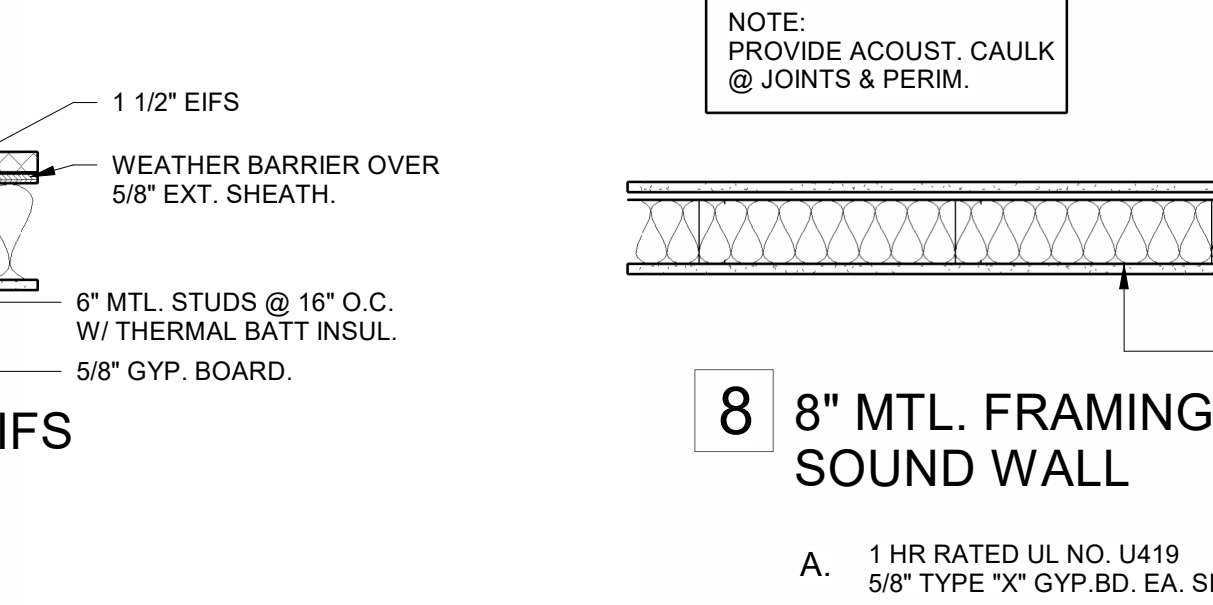
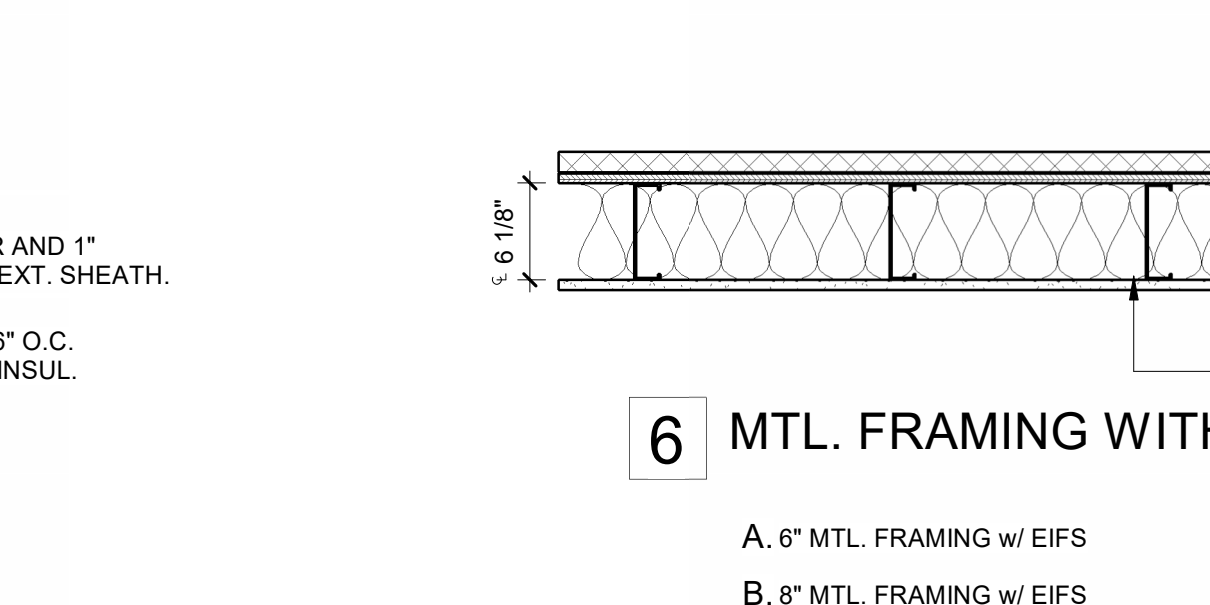
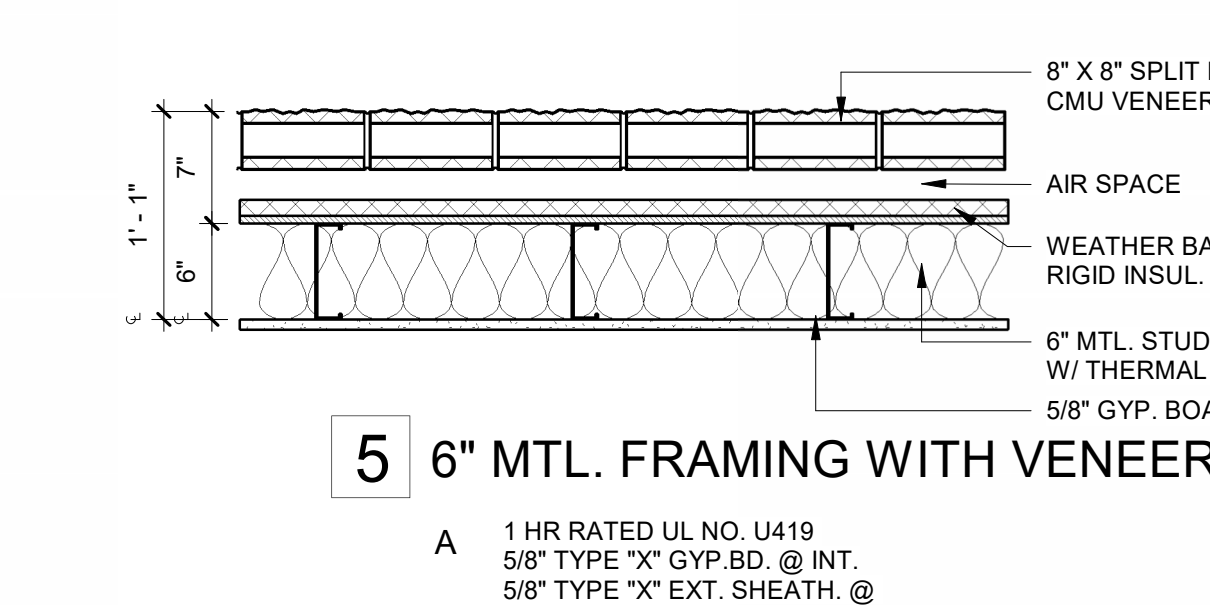
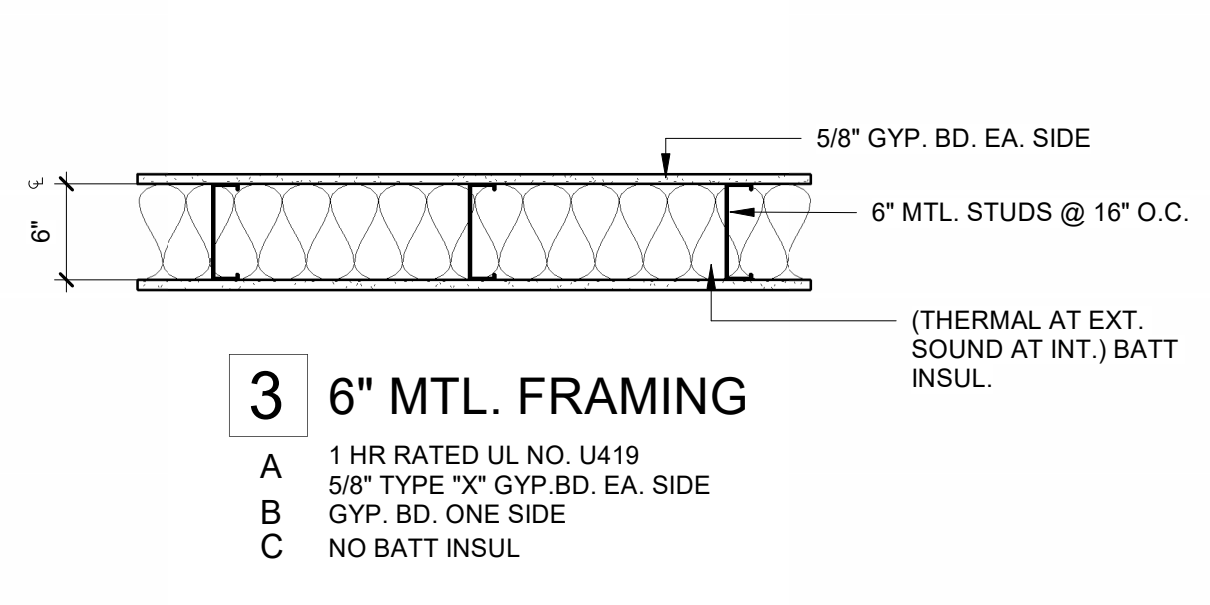
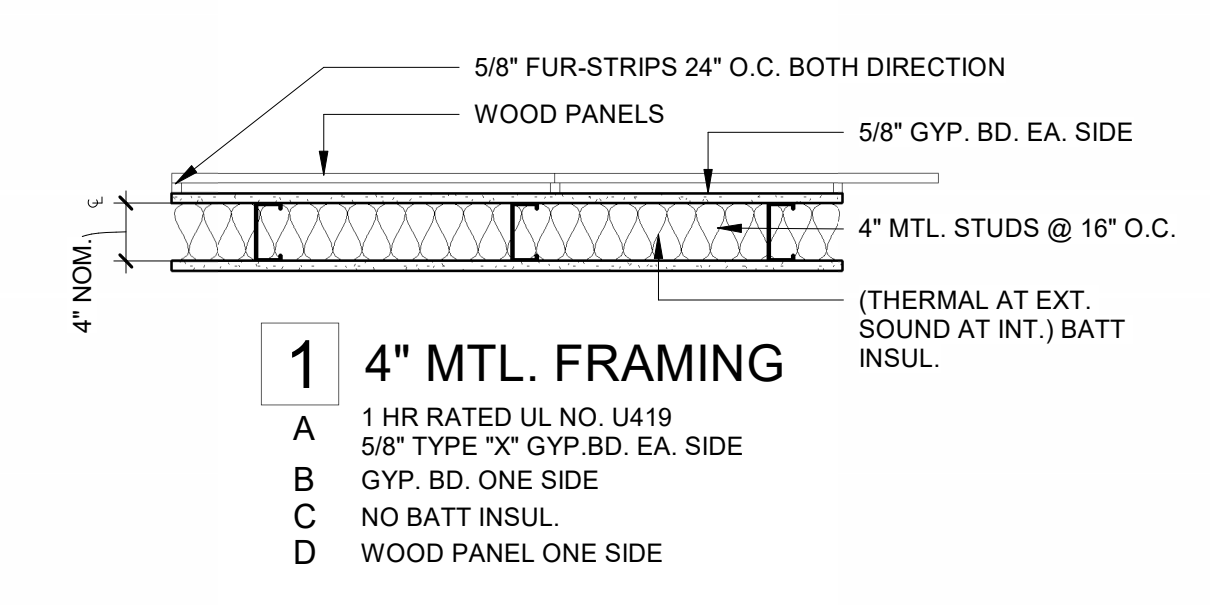
1-HOUR RATED PARTITION



FLOOR PLAN

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

BID LOT 1



NOTE: SEE STRUCT. DWGS. FOR STRUCT. STUD LOCATIONS

NOTE: EXTEND ALL WALLS TO BOTTM. MTL. DECK U.O.N.

NOTE: USE ACOUST. SEALANT @ JOINTS & PERIM. OF WALLS W/ SOUND BATT INSUL.

NOTE: PROVIDE ACOUST. CAULK @ JOINTS & PERIM.

NOTE: PROVIDE ACOUST. CAULK @ JOINTS & PERIM.

PARTITION TYPES

SCALE: 1" = 1'-0"

OEM EMERGENCY OPERATIONS CENTER  
GEOTHERMAL DR., LAS CRUCES, NM

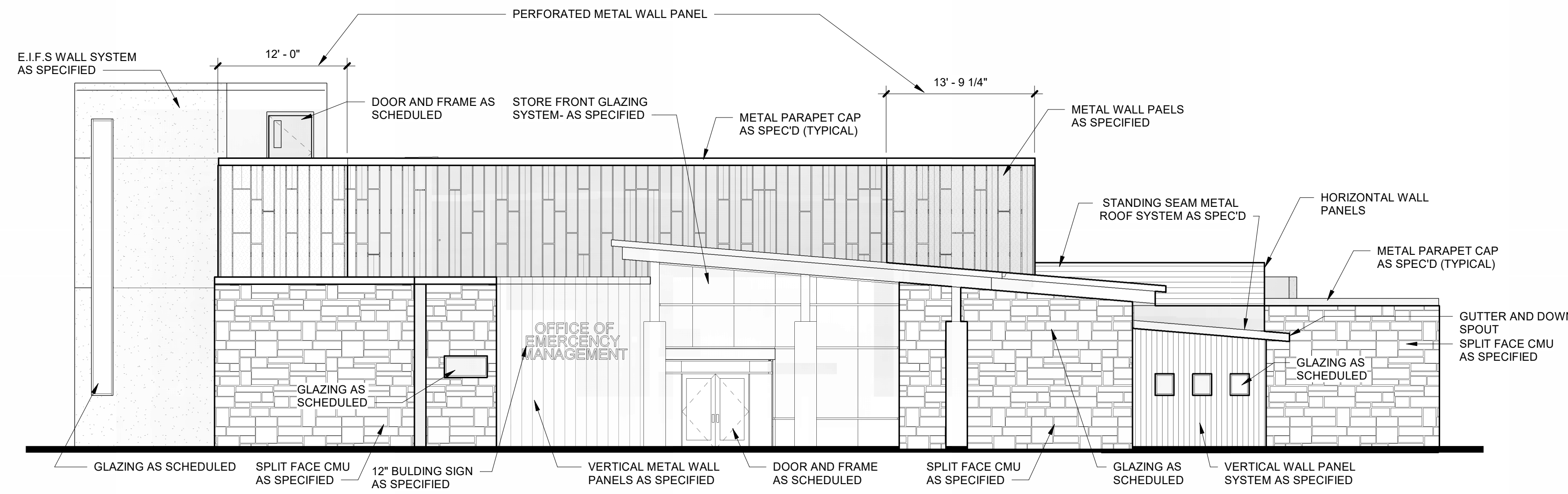
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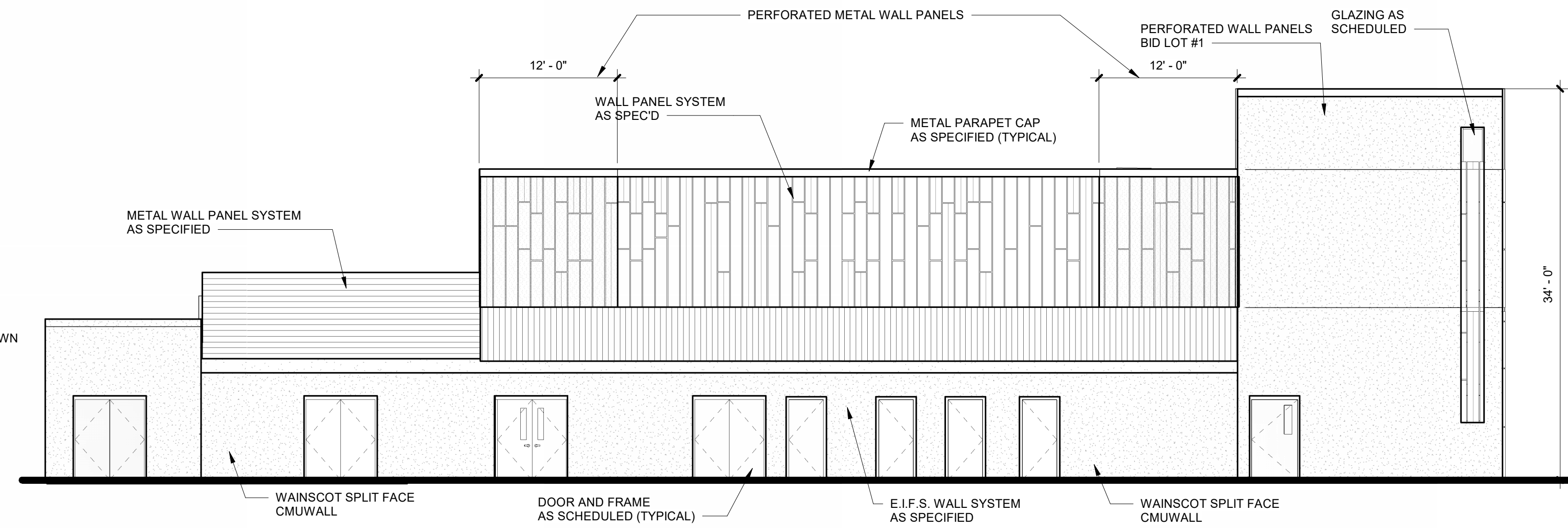
75% DESIGN DEVELOPMENT NOT FOR CONSTRUCTION

Table with columns: MARK, DATE, DESCRIPTION, ISSUE. Includes project information: PROJECT NO. 22115L, FILE NAME, DRAWN BY: Author, CHECKED BY: Checker, SHEET TITLE: PARTITION PLAN & DETAILS, SHEET NO: A-108

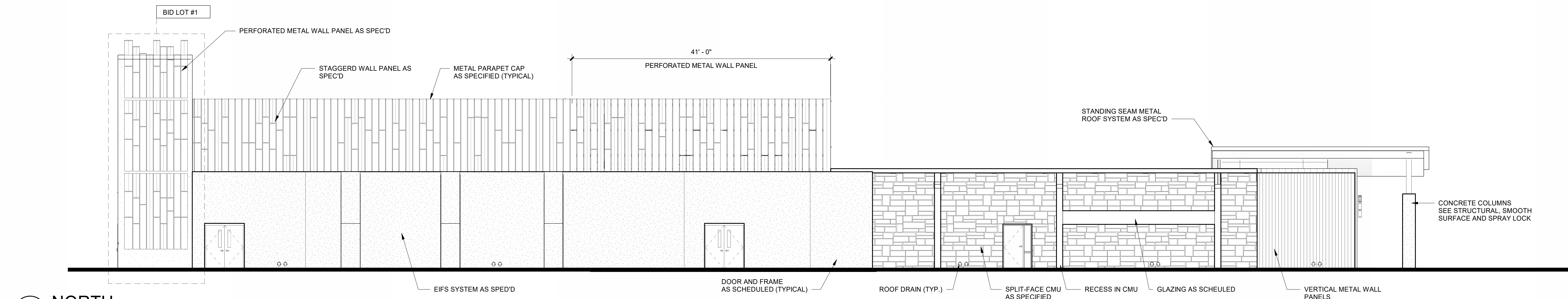
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NOT FOR  
CONSTRUCTION



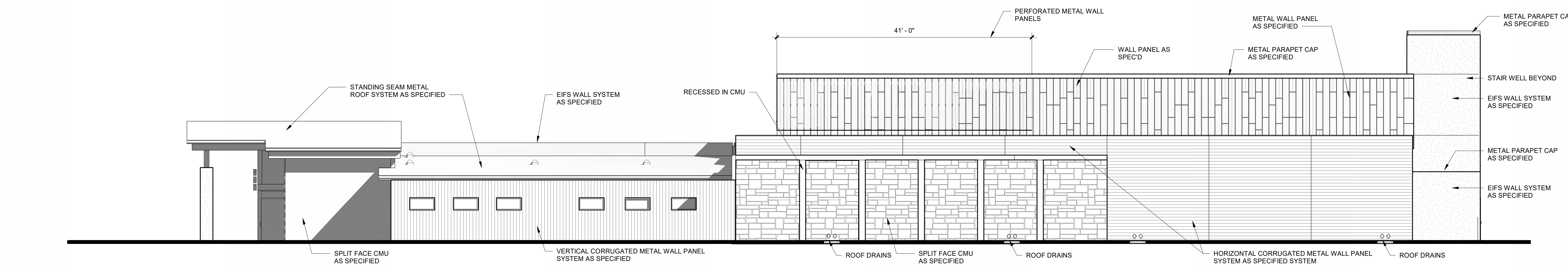
1 WEST ELEVATION  
SCALE: 1/8" = 1'-0"



2 EAST ELEVATION  
SCALE: 1/8" = 1'-0"



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



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

OEM EMERGENCY OPERATIONS CENTER  
TORTUGAS TRAILS, LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

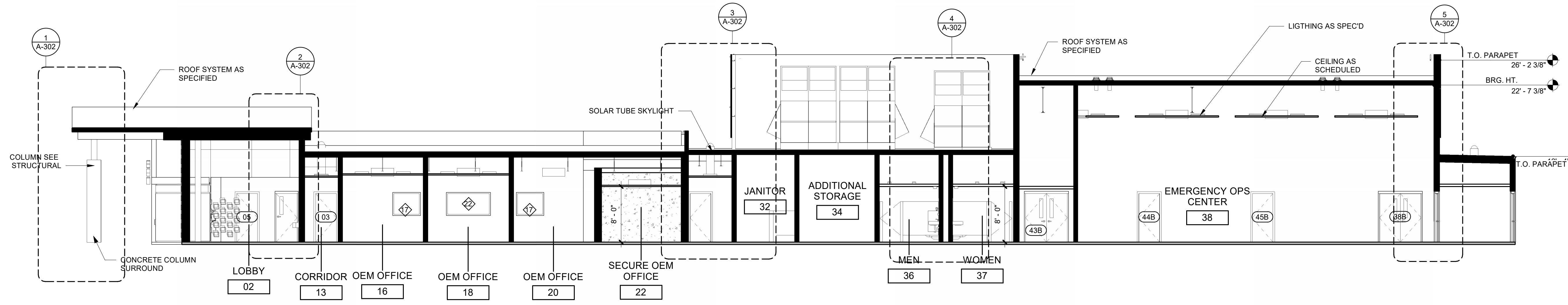
MARK	DATE	DESCRIPTION	ISSUE
1			
2			
3			
4			

PROJECT NO.: 22115L  
FILE NAME:  
DRAWN BY: ASA  
CHECKED BY: ASA  
SHEET TITLE:

EXTERIOR ELEVATIONS

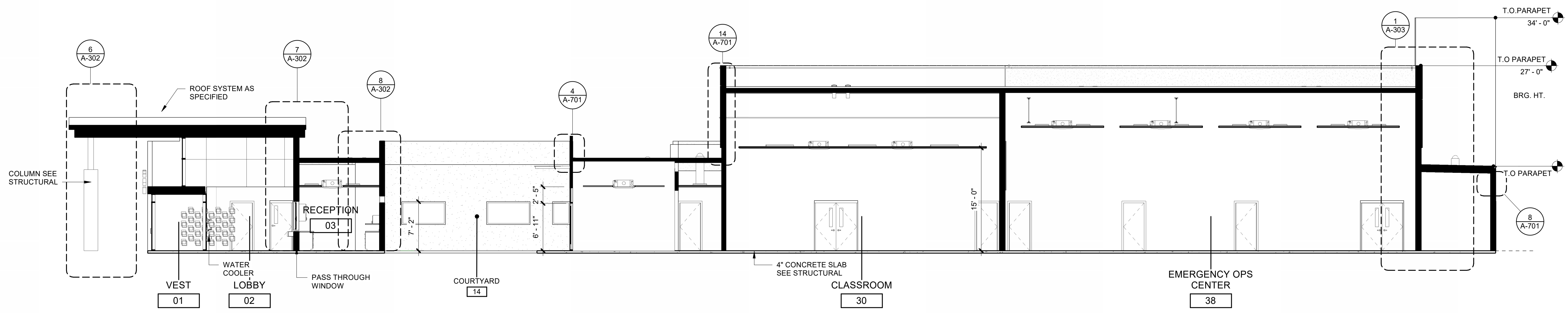
SHEET NO:  
A-200

100% CD  
NOT FOR  
CONSTRUCTION

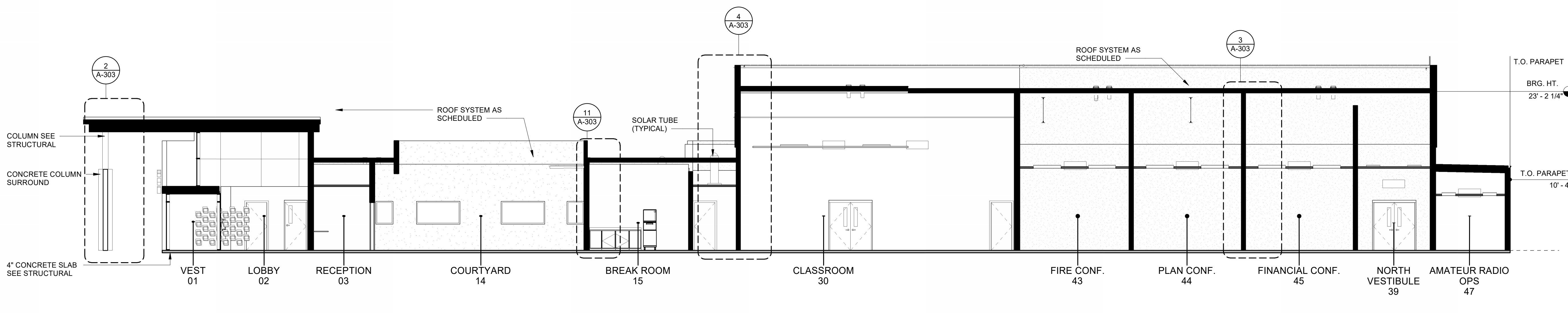


1 BUILDING SECTION  
SCALE: 1/8" = 1'-0"

**NOTES**  
1. ADD WALL SUPPORT AS REQUIRED FOR ALL WALL MOUNTED FIXTURES.



2 BUILDING SECTION  
SCALE: 1/8" = 1'-0"



3 BUILDING SECTION  
SCALE: 1/8" = 1'-0"

OEM EMERGENCY OPERATIONS CENTER  
TORTUGAS TRAILS, LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION
1	1/11/2025	ISSUE

PROJECT NO.: 22115L  
FILE NAME:  
DRAWN BY: MBR  
CHECKED BY: ASA  
SHEET TITLE:

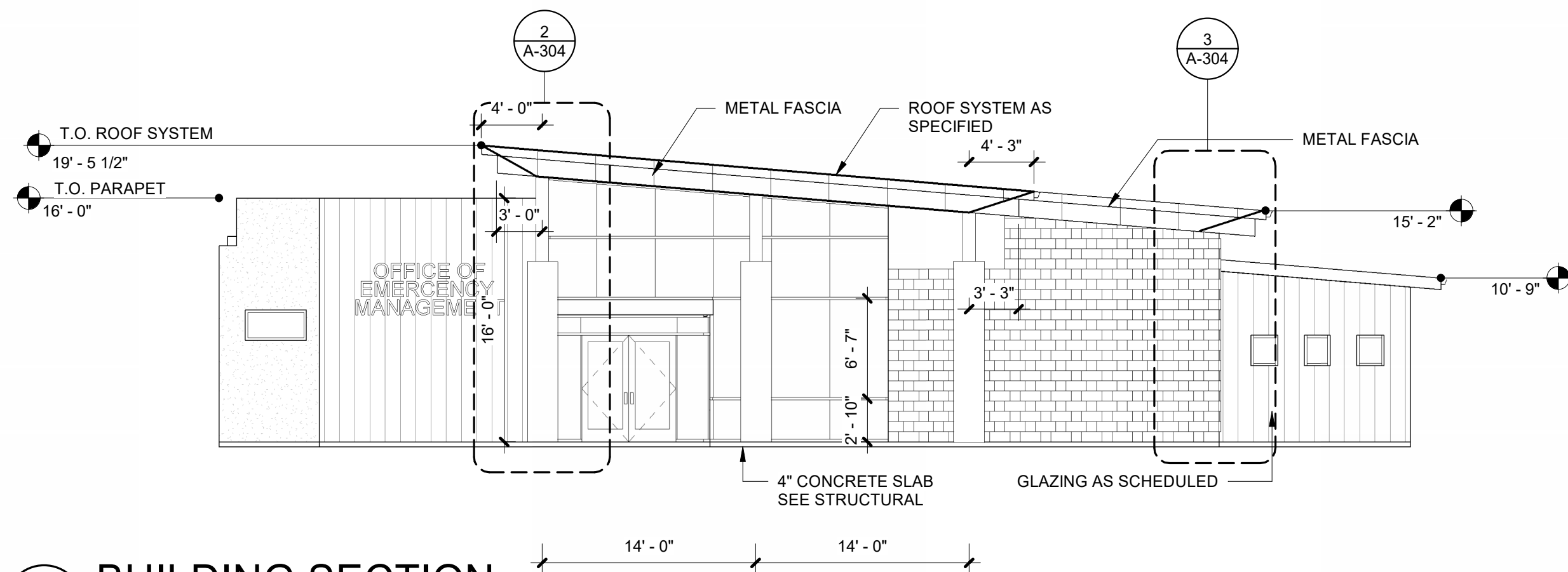
BUILDING SECTIONS

SHEET NO:  
A-300

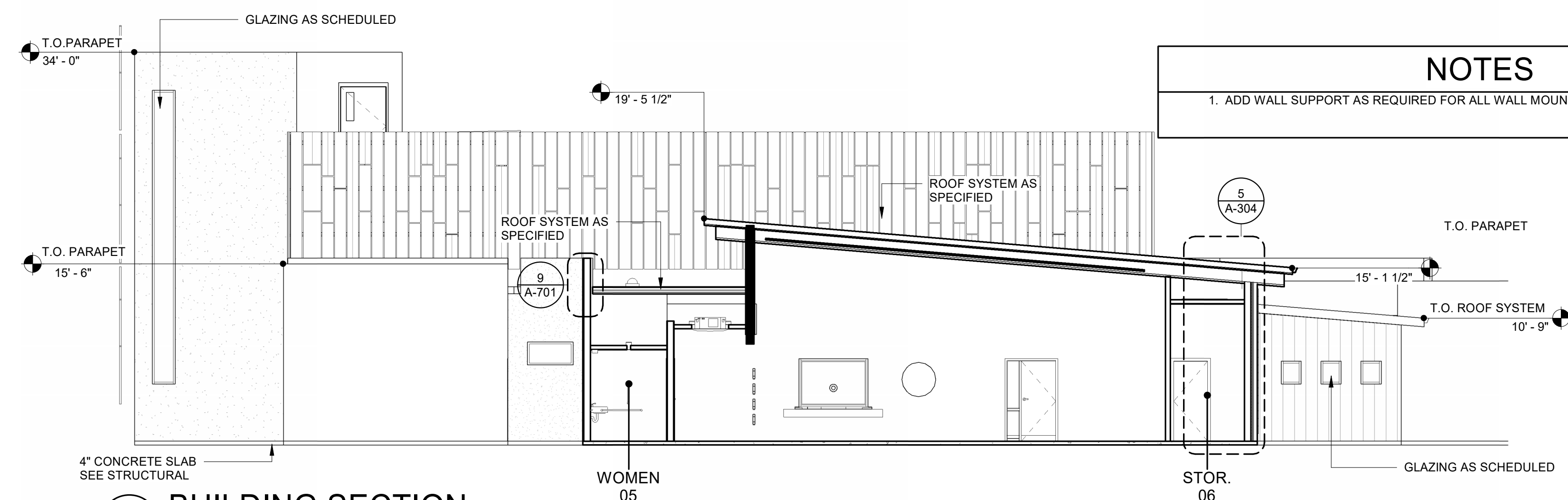
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NOT FOR  
CONSTRUCTION

MARK	DATE	DESCRIPTION	ISSUE
1	03/2025	ISSUE	

PROJECT NO.:	22115L
FILE NAME:	
DRAWN BY:	MBR
CHECKED BY:	ASA
SHEET TITLE:	

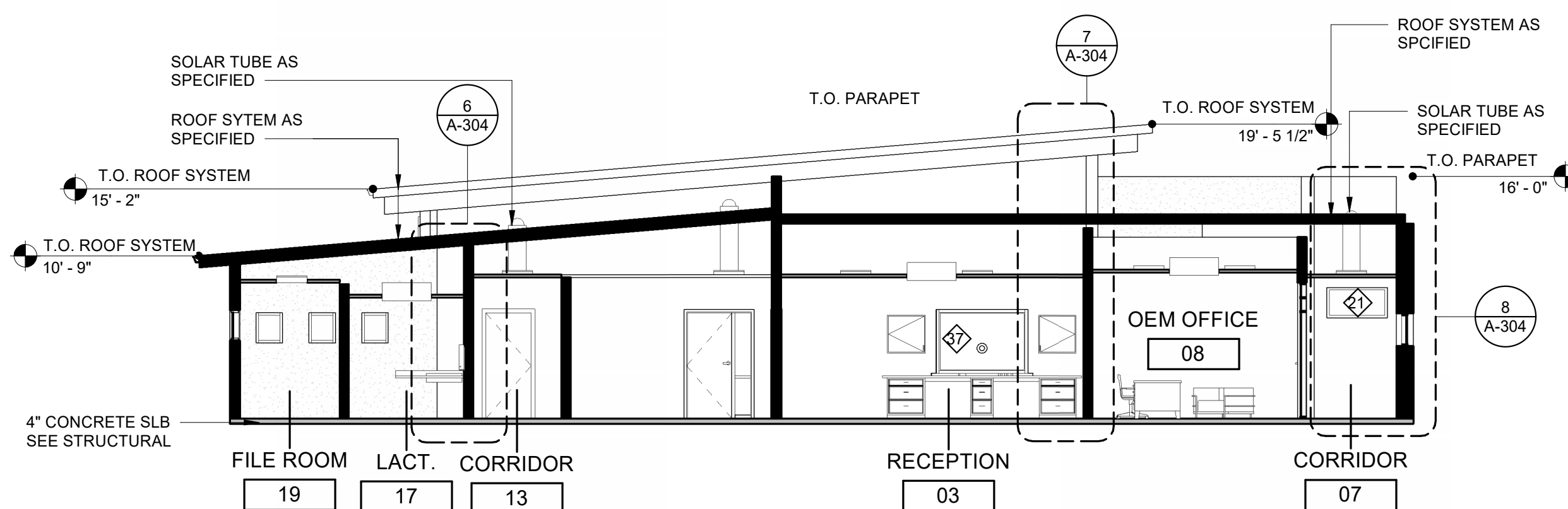


1 BUILDING SECTION  
SCALE: 1/8" = 1'-0"

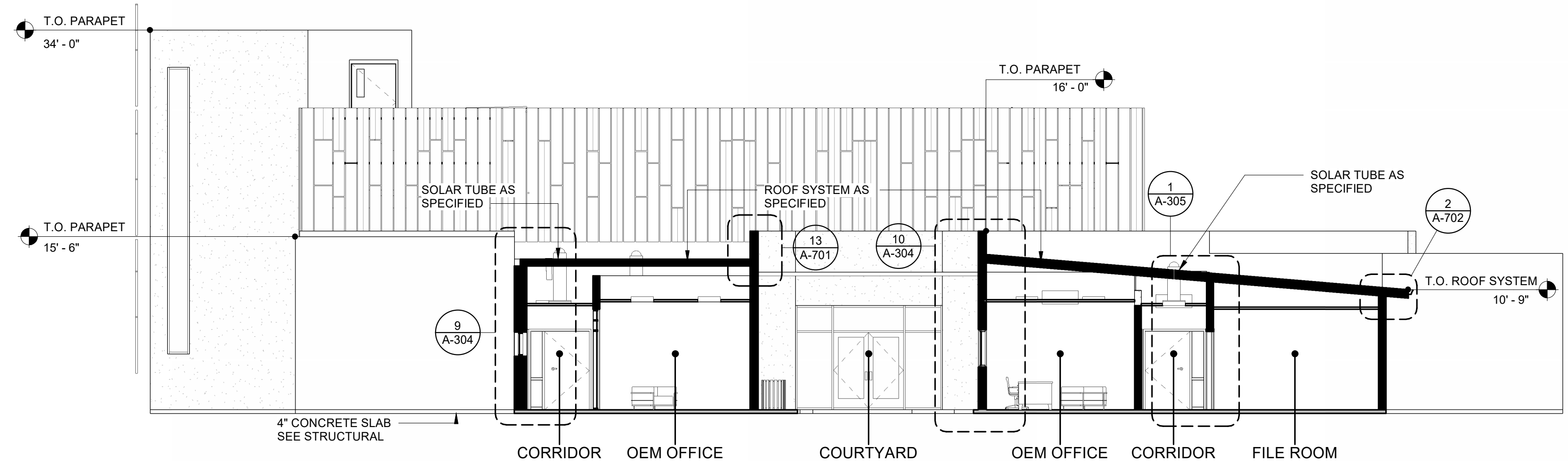


2 BUILDING SECTION  
SCALE: 1/8" = 1'-0"

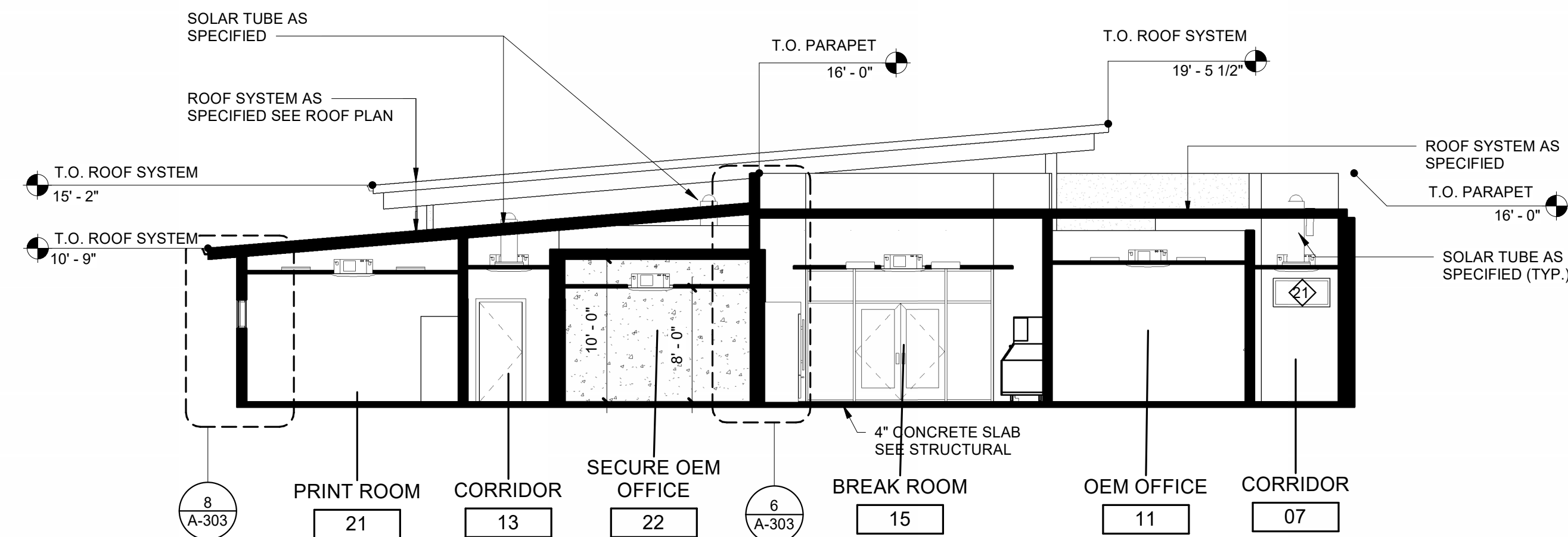
**NOTES**  
1. ADD WALL SUPPORT AS REQUIRED FOR ALL WALL MOUNTED FIXTURES.



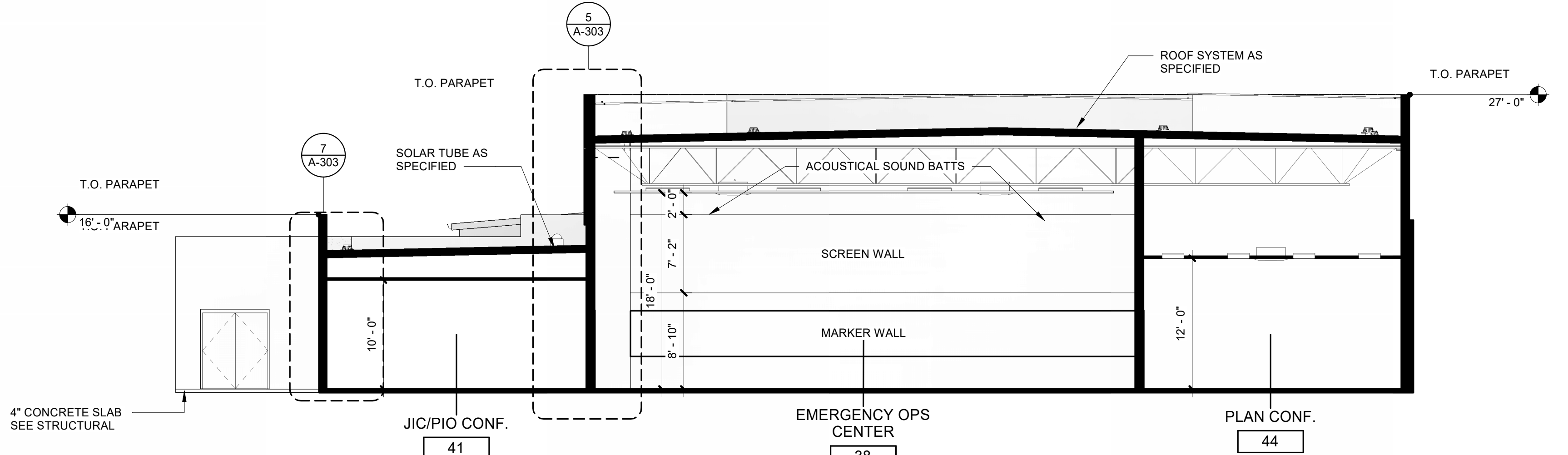
3 BUILDING SECTION  
SCALE: 1/8" = 1'-0"



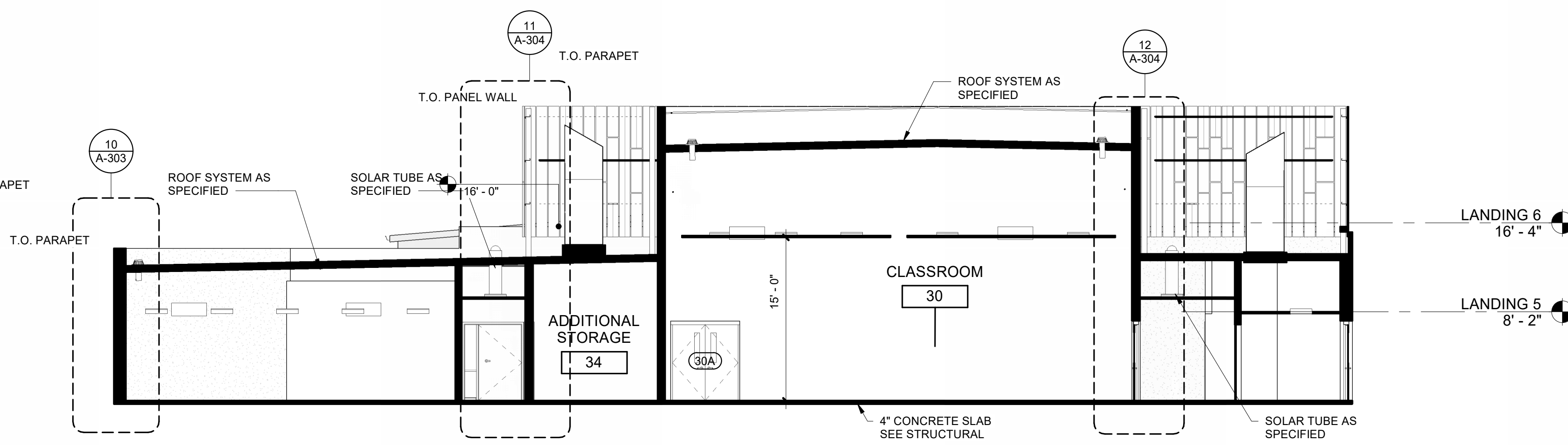
4 BUILDING SECTION  
SCALE: 1/8" = 1'-0"



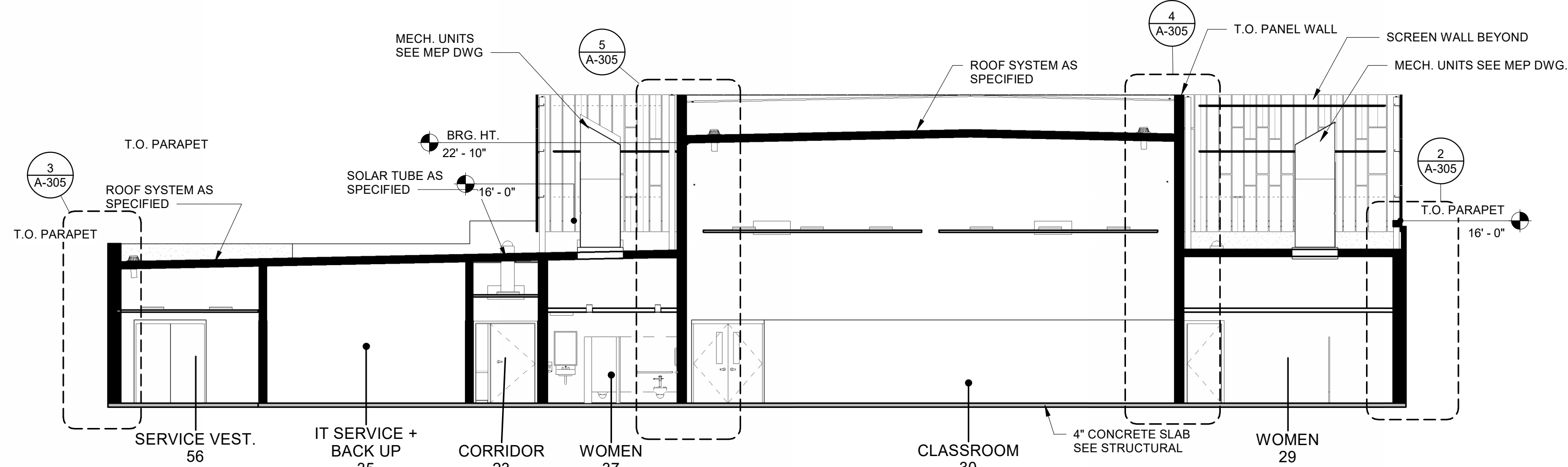
5 BUILDING SECTION  
SCALE: 1/8" = 1'-0"



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



6 BUILDING SECTION  
SCALE: 1/8" = 1'-0"



7 BUILDING SECTION  
SCALE: 1/8" = 1'-0"

1/3/2025 2:45:40 PM C:\Users\alvarez\Documents\22115L\_OEM\_CD\_BLDG\_MODEL\_mbr\mbr\22115L.rvt

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NOT FOR  
CONSTRUCTION

OEM EMERGENCY OPERATIONS CENTER  
TORTUGAS TRAILS, LAS CRUCES, NM

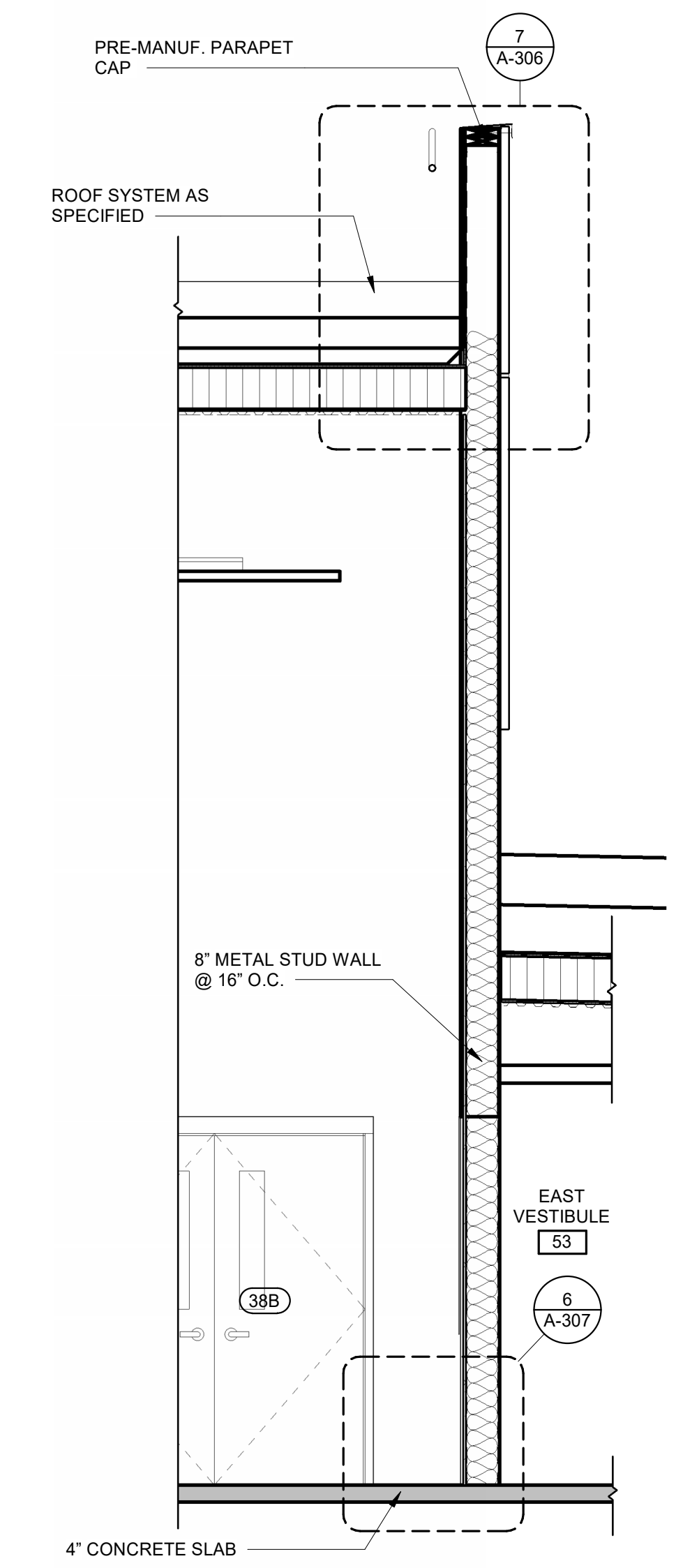
FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION
1	1/03/2025	ISSUE

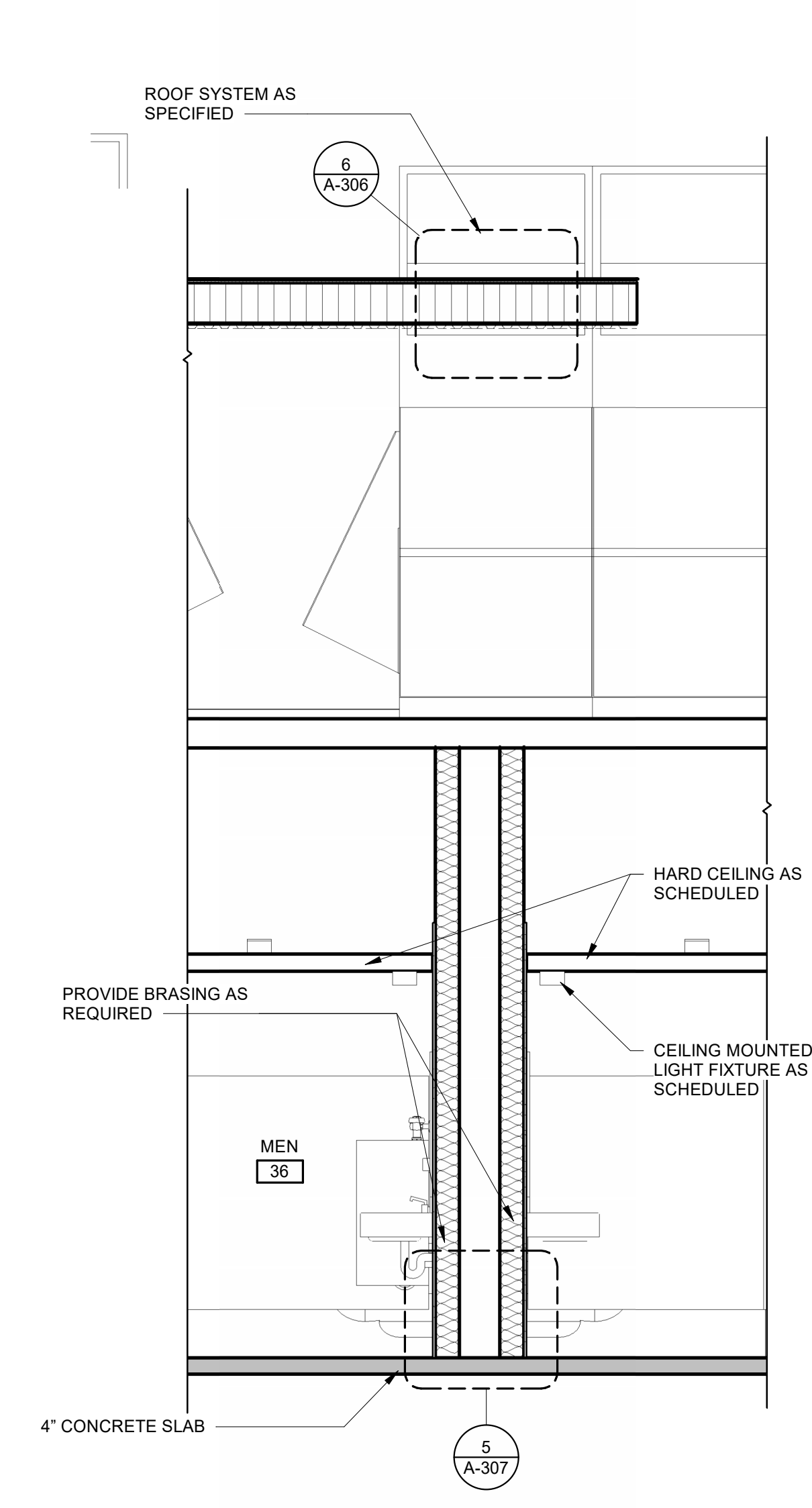
PROJECT NO.: 22115L  
FILE NAME:  
DRAWN BY: Author  
CHECKED BY: Checker  
SHEET TITLE:

WALL SECTIONS

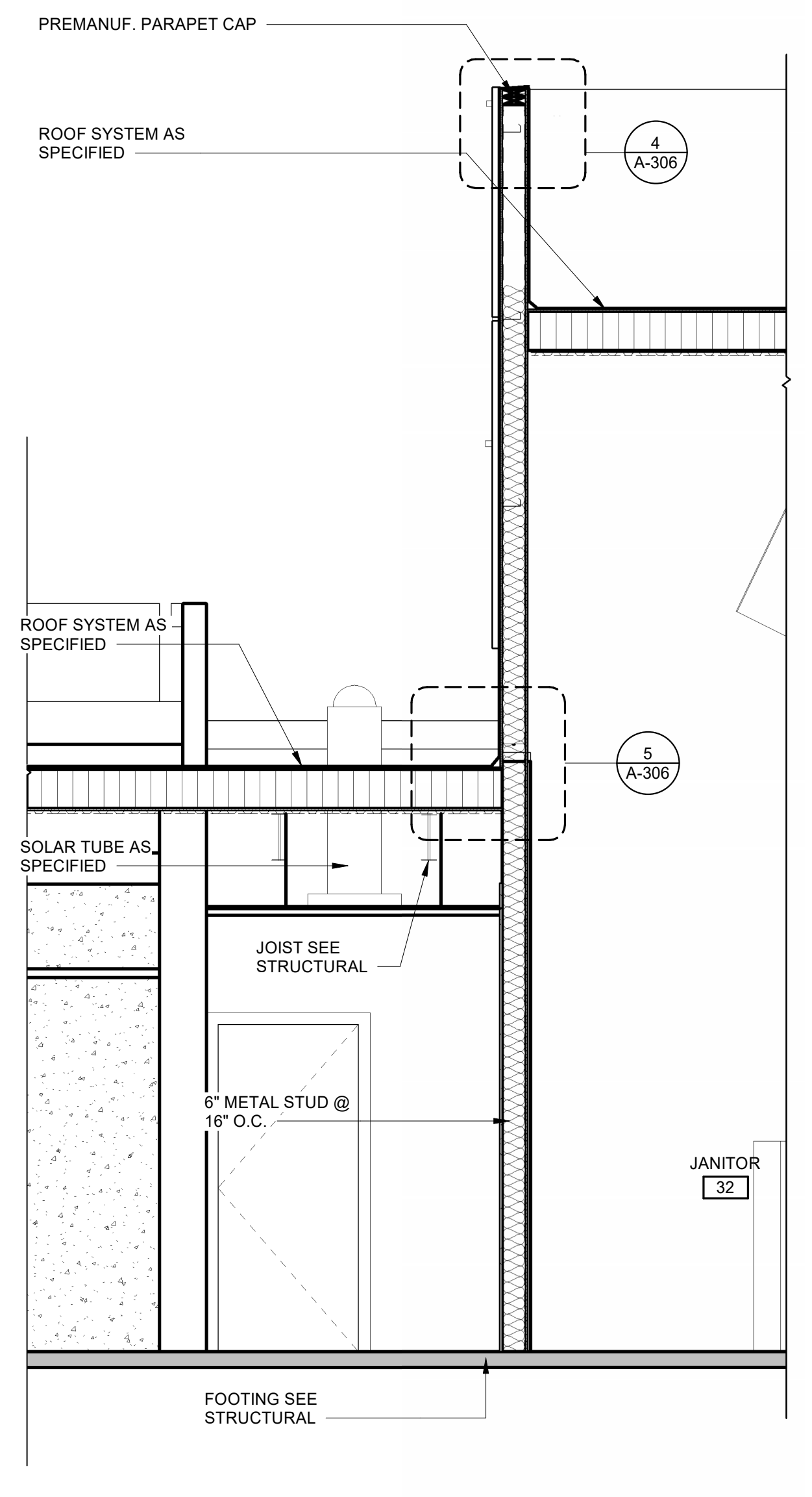
SHEET NO.:  
A-302



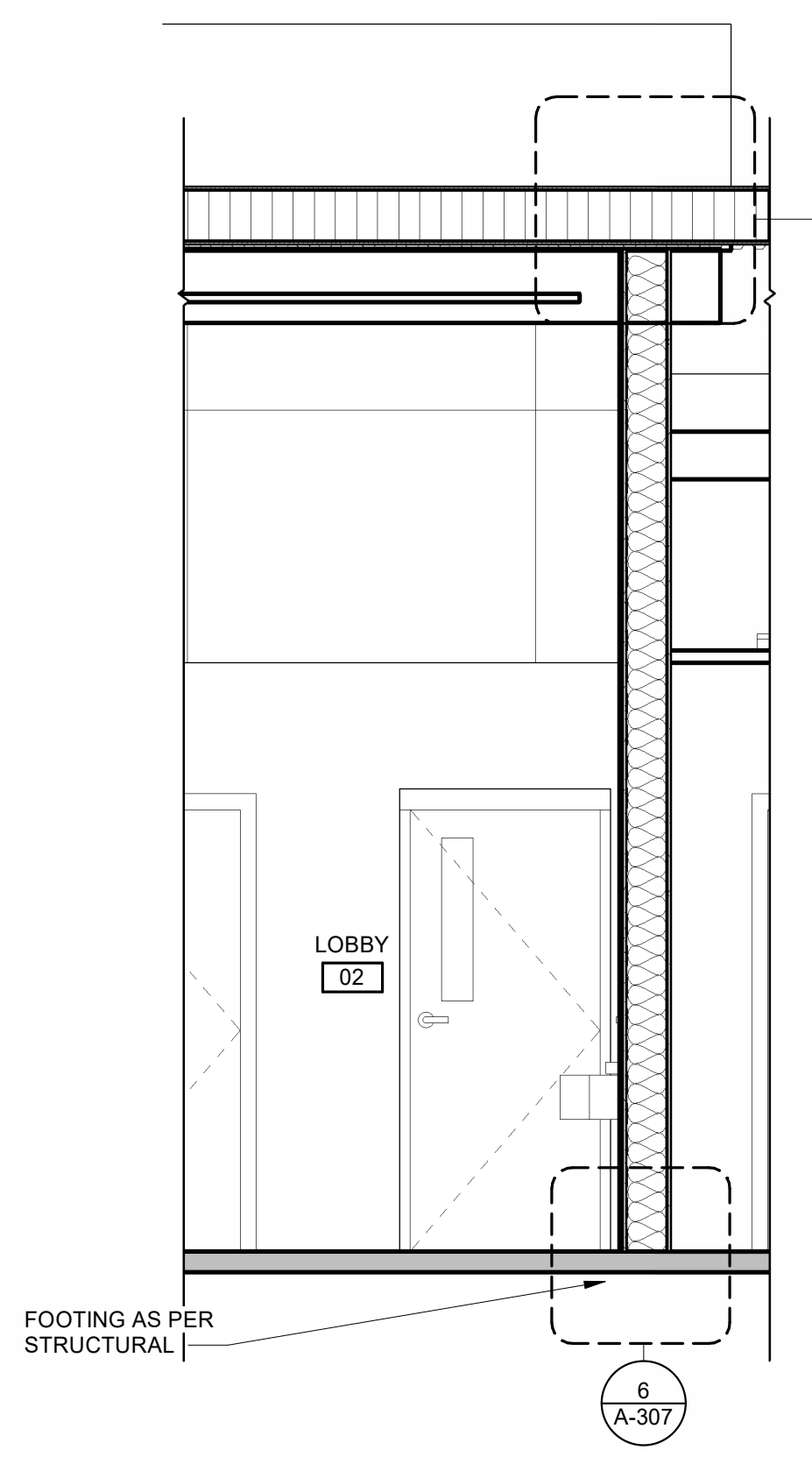
5 WALL SECTION  
SCALE: 3/8" = 1'-0"



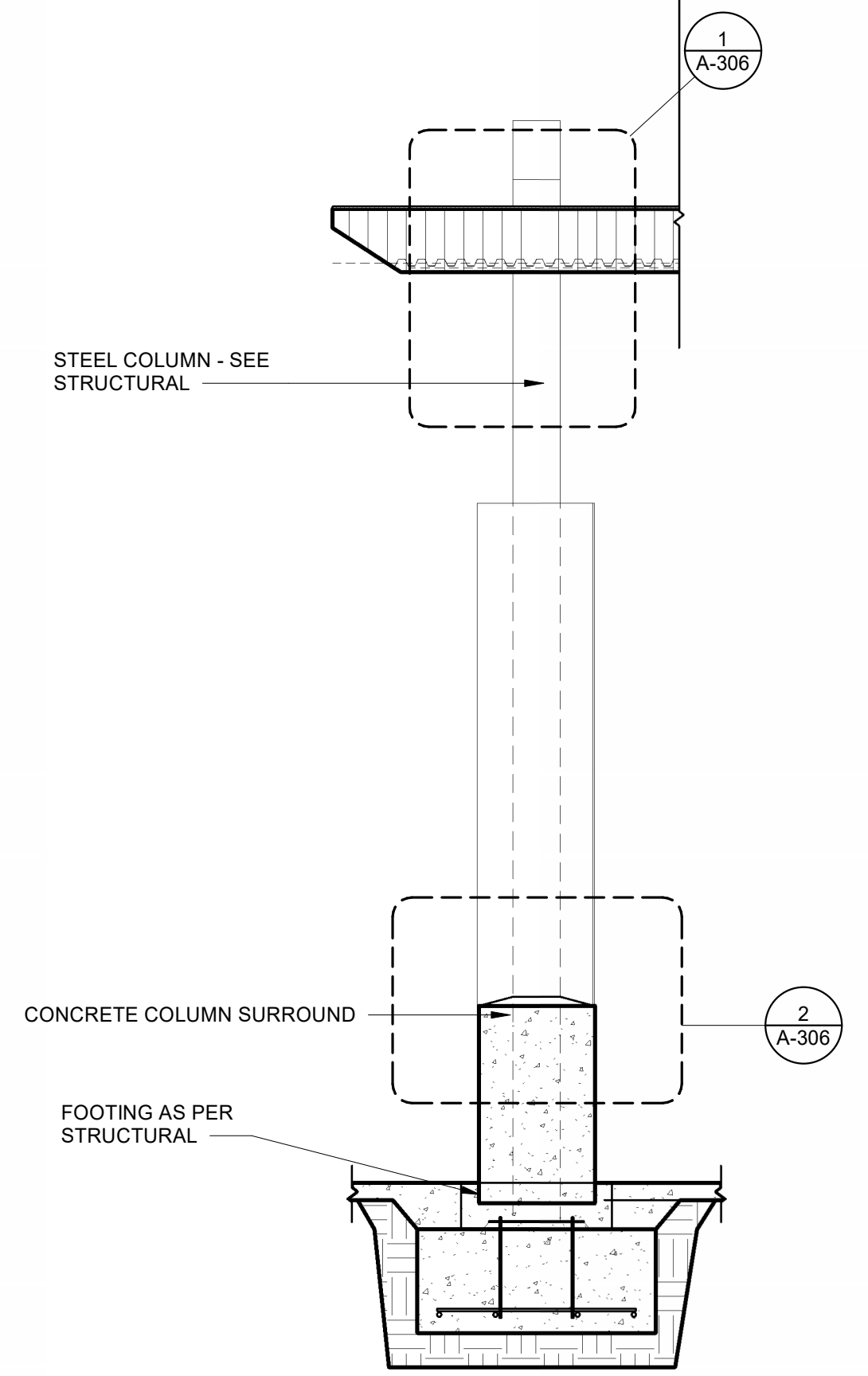
4 WALL SECTION  
SCALE: 3/8" = 1'-0"



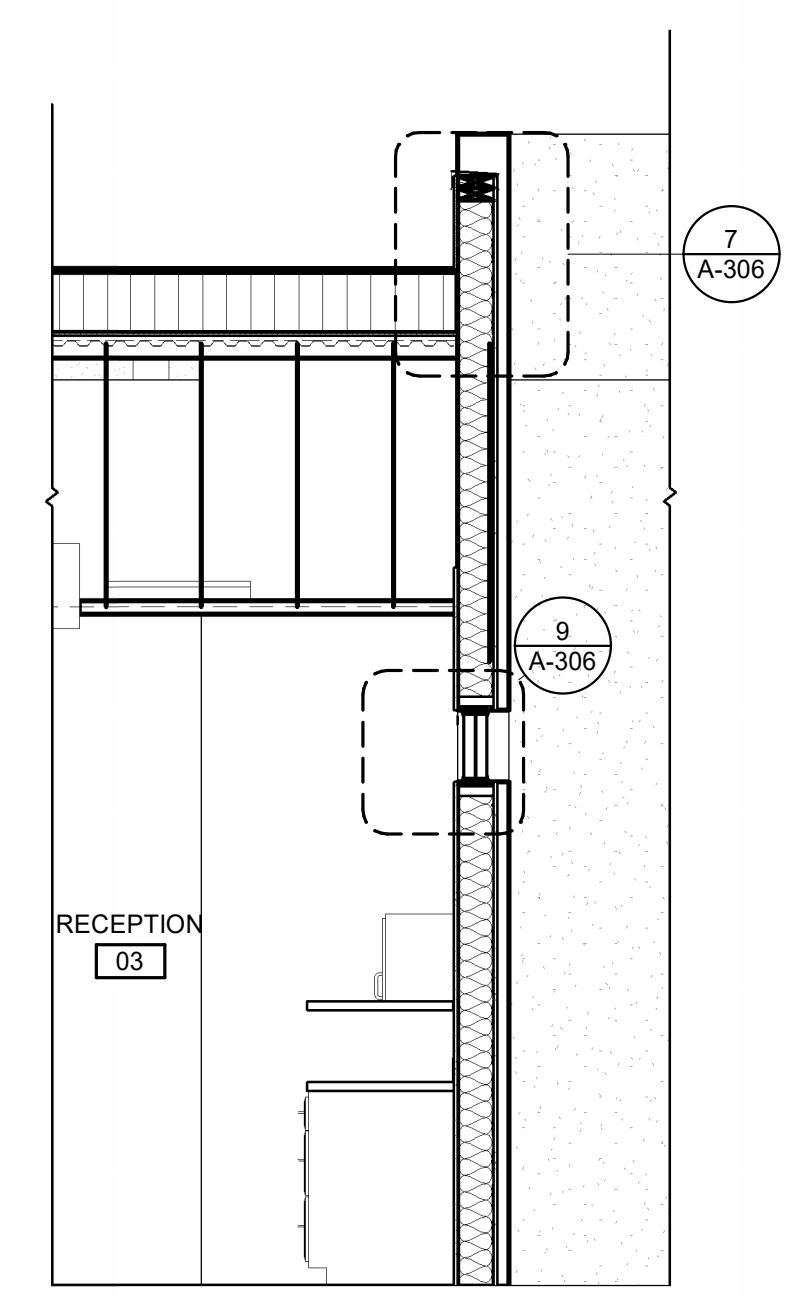
3 WALL SECTION  
SCALE: 3/8" = 1'-0"



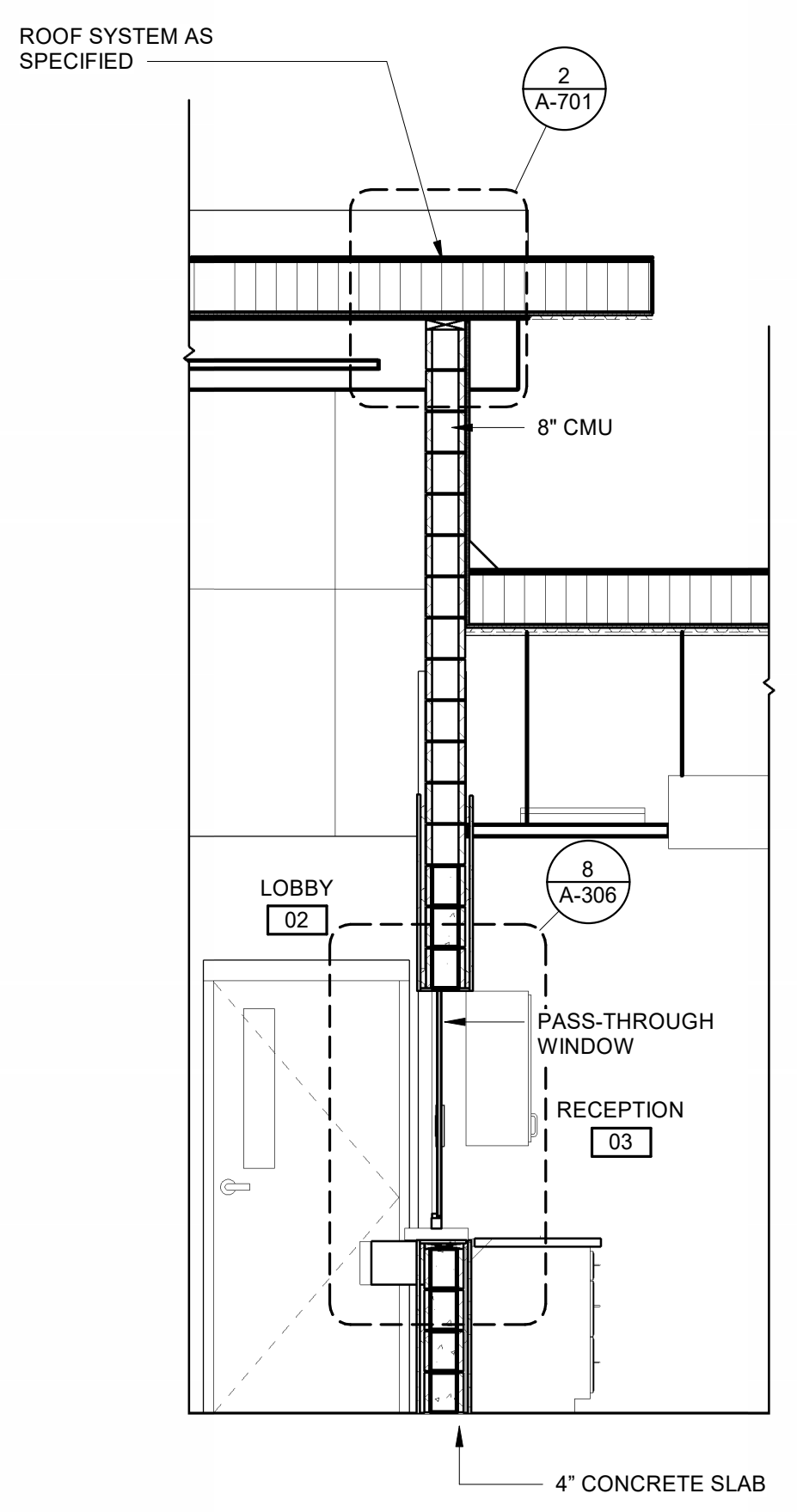
2 WALL SECTION  
SCALE: 3/8" = 1'-0"



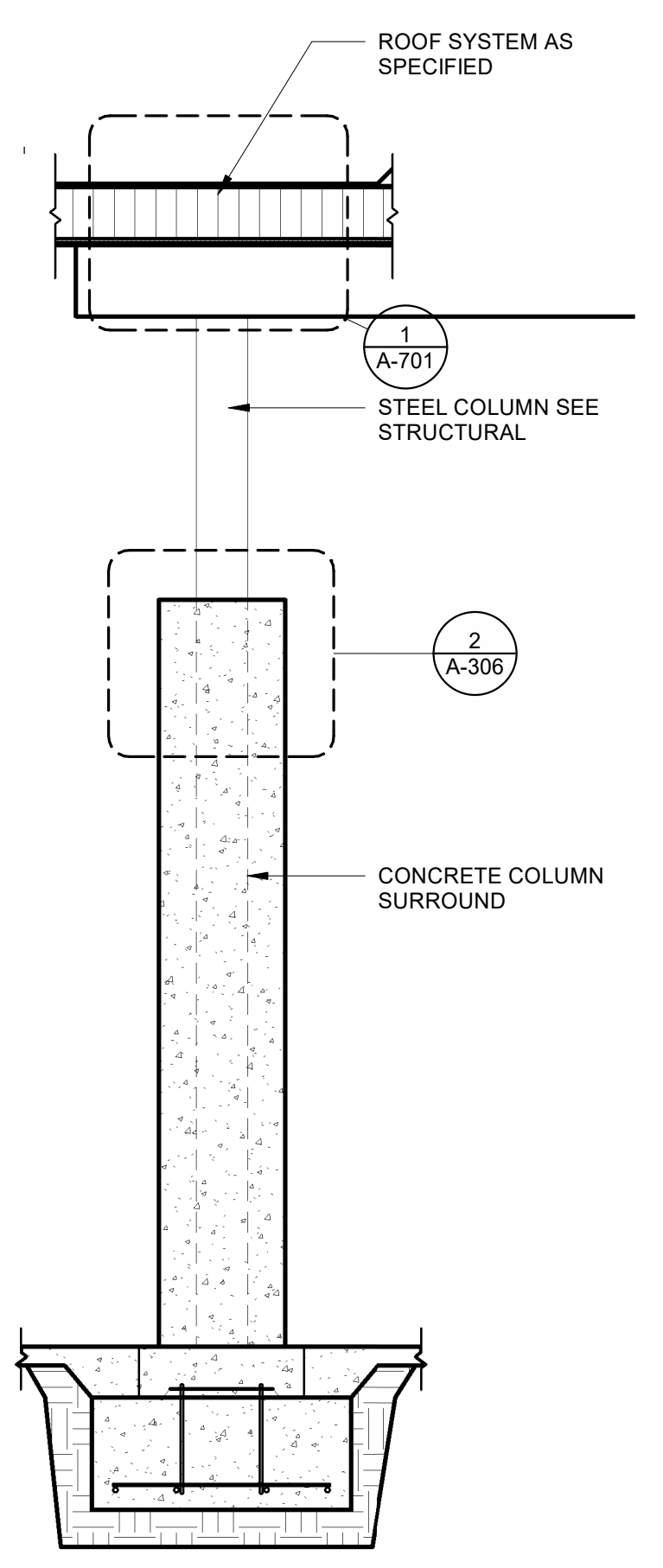
1 WALL SECTION  
SCALE: 3/8" = 1'-0"



8 WALL SECTION  
SCALE: 3/8" = 1'-0"



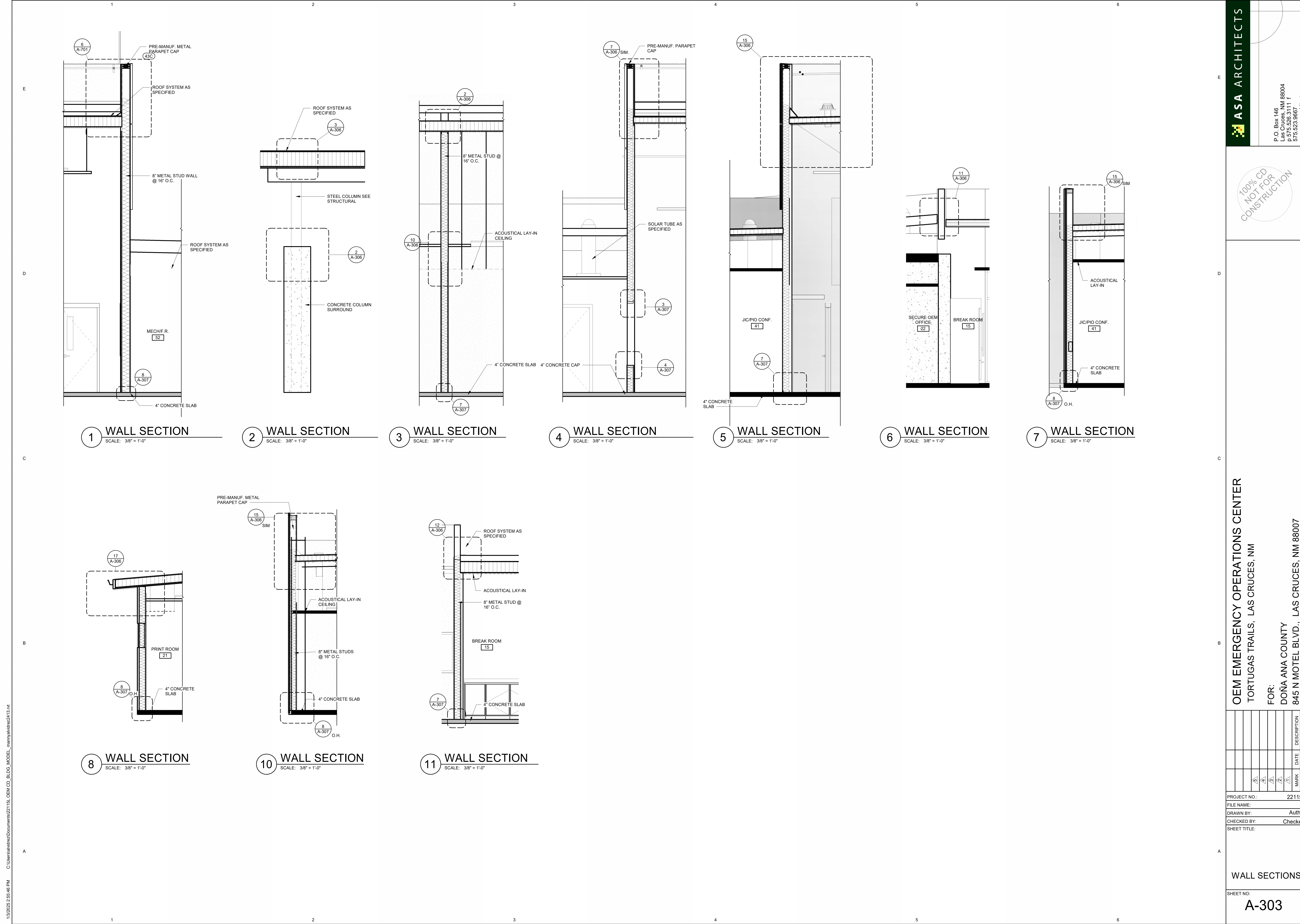
7 WALL SECTION  
SCALE: 3/8" = 1'-0"



6 WALL SECTION  
SCALE: 3/8" = 1'-0"

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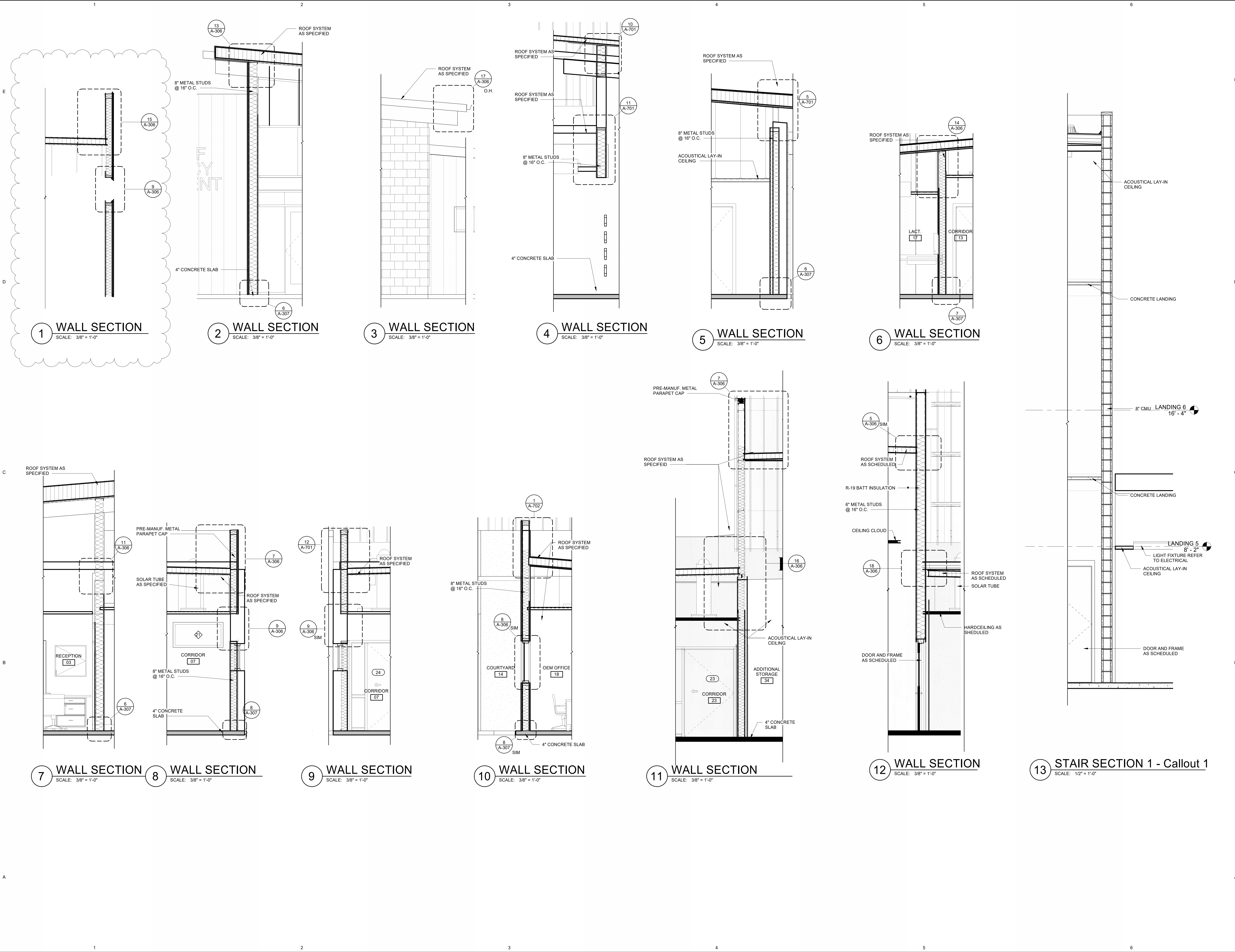
**OEM EMERGENCY OPERATIONS CENTER**  
 TORTUGAS TRAILS, LAS CRUCES, NM  
 FOR:  
 DOÑA ANA COUNTY  
 845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION
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PROJECT NO.: 22115L  
 FILE NAME:  
 DRAWN BY: Author  
 CHECKED BY: Checker  
 SHEET TITLE:

**WALL SECTIONS**  
 SHEET NO:  
**A-303**

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 CONSTRUCTION

**OEM EMERGENCY OPERATIONS CENTER**  
 TORTUGAS TRAILS, LAS CRUCES, NM  
 FOR: DOÑA ANA COUNTY  
 845 N MOTEL BLVD., LAS CRUCES, NM 88007

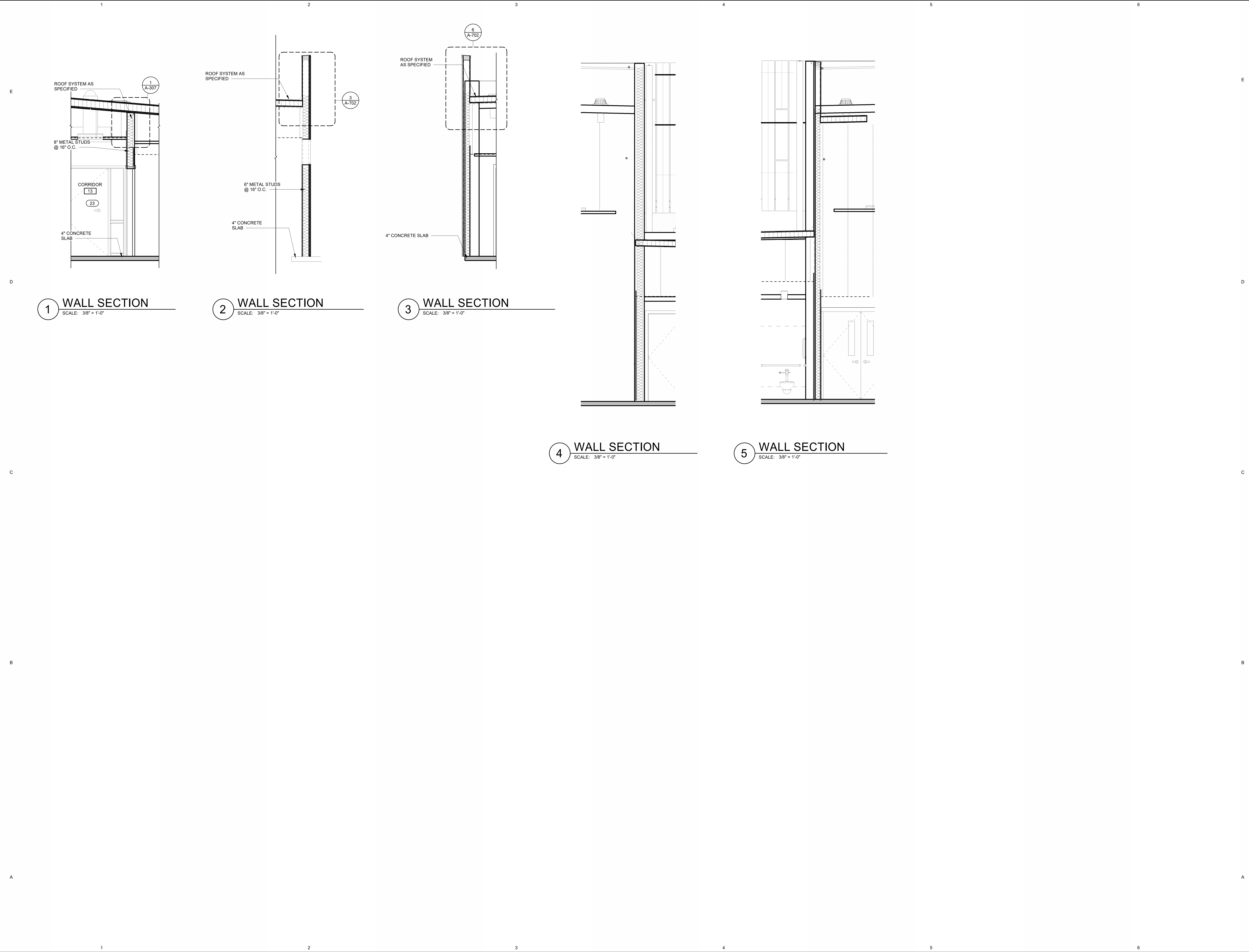
MARK	DATE	DESCRIPTION
1	1/11/2025	ISSUE

PROJECT NO.: 22115L  
 FILE NAME:  
 DRAWN BY: SV  
 CHECKED BY: ASA  
 SHEET TITLE:

WALL SECTION  
 SHEET NO:  
**A-304**

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**1 WALL SECTION**  
SCALE: 3/8" = 1'-0"

**2 WALL SECTION**  
SCALE: 3/8" = 1'-0"

**3 WALL SECTION**  
SCALE: 3/8" = 1'-0"

**4 WALL SECTION**  
SCALE: 3/8" = 1'-0"

**5 WALL SECTION**  
SCALE: 3/8" = 1'-0"

**ASA ARCHITECTS**

P.O. Box 146  
Las Cruces, NM 88004  
p 575.526.3111 f  
575.523.9667  
www.asa-architects.com

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CONSTRUCTION

**OEM EMERGENCY OPERATIONS CENTER**  
TORTUGAS TRAILS, LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION
1/A		
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4/A		
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PROJECT NO.: 221151L

FILE NAME:

DRAWN BY: Author

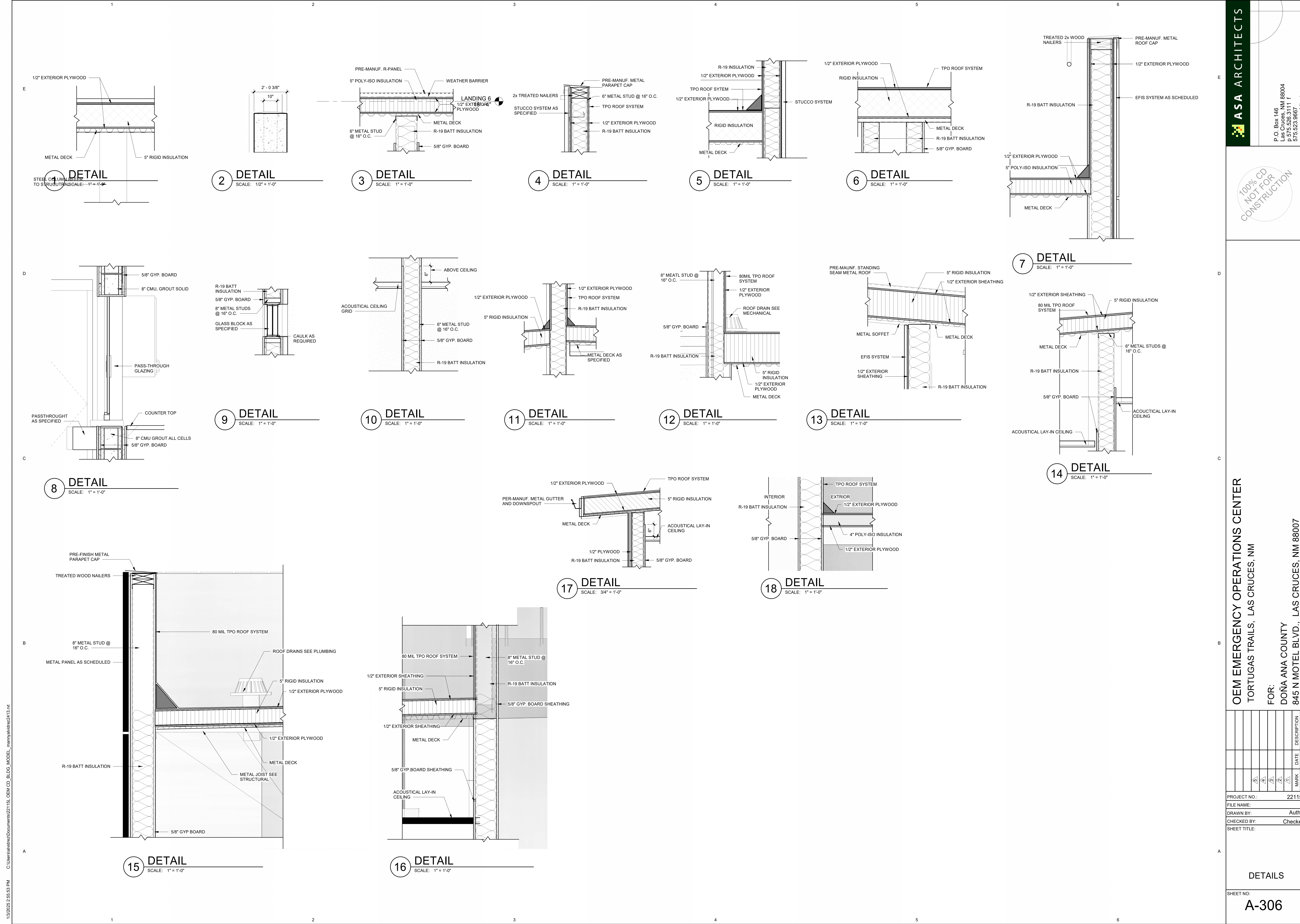
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SHEET TITLE:

**WALL SECTIONS**

SHEET NO.: **A-305**

ISSUE: January 03 2025



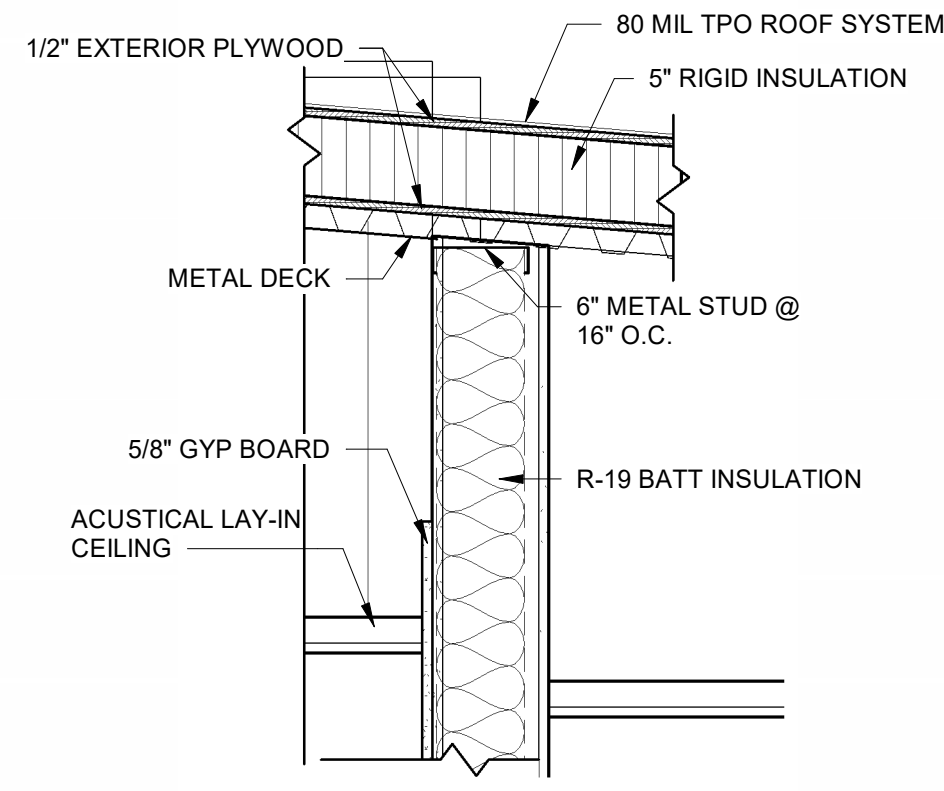
100% CD  
 NOT FOR  
 CONSTRUCTION

**OEM EMERGENCY OPERATIONS CENTER**  
 TORTUGAS TRAILS, LAS CRUCES, NM  
 FOR:  
 DOÑA ANA COUNTY  
 845 N MOTEL BLVD., LAS CRUCES, NM 88007

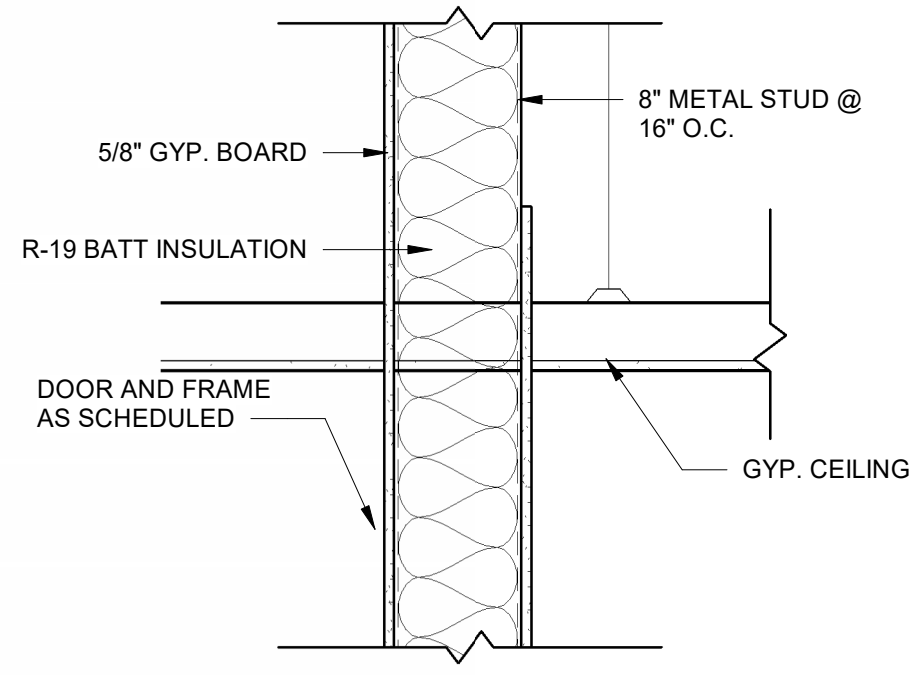
MARK	DATE	DESCRIPTION
1	1/10/2025	ISSUE

PROJECT NO.: 22115L  
 FILE NAME:  
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 CHECKED BY: Checker  
 SHEET TITLE:

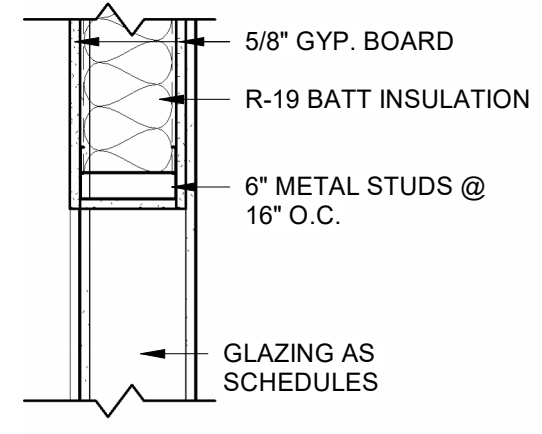
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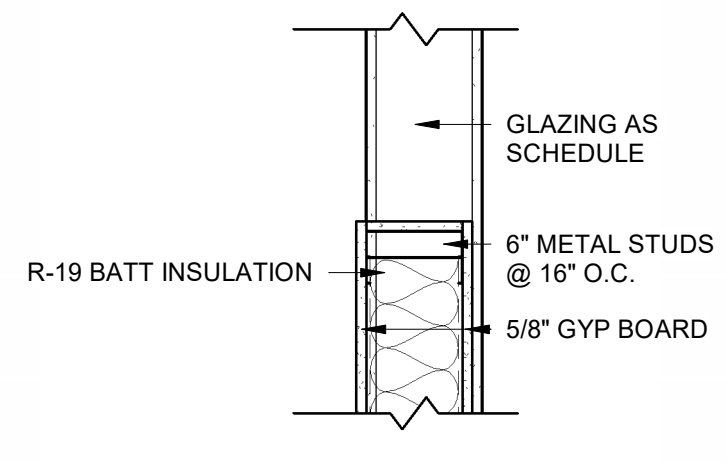
**1** DETAIL  
SCALE: 1" = 1'-0"



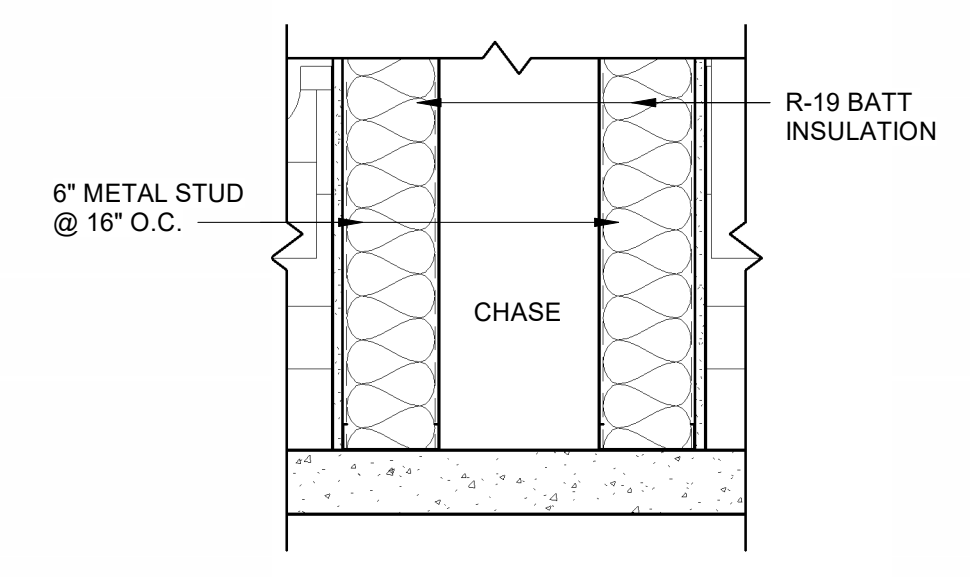
**2** DETAIL  
SCALE: 1" = 1'-0"



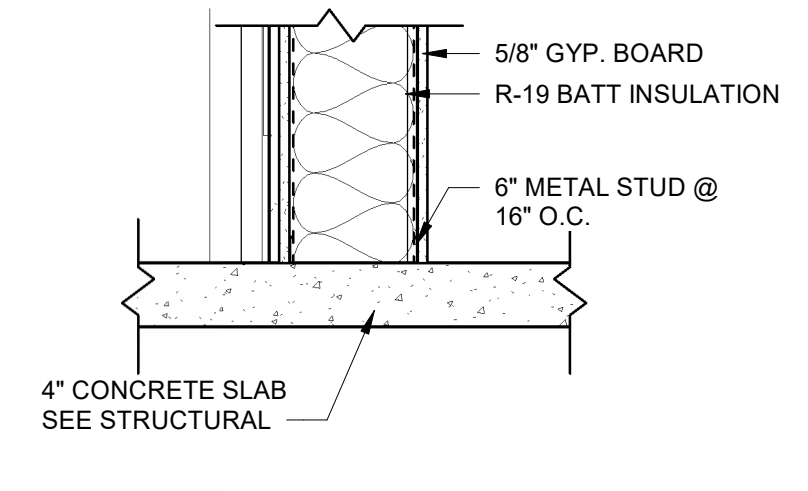
**3** DETAIL  
SCALE: 1" = 1'-0"



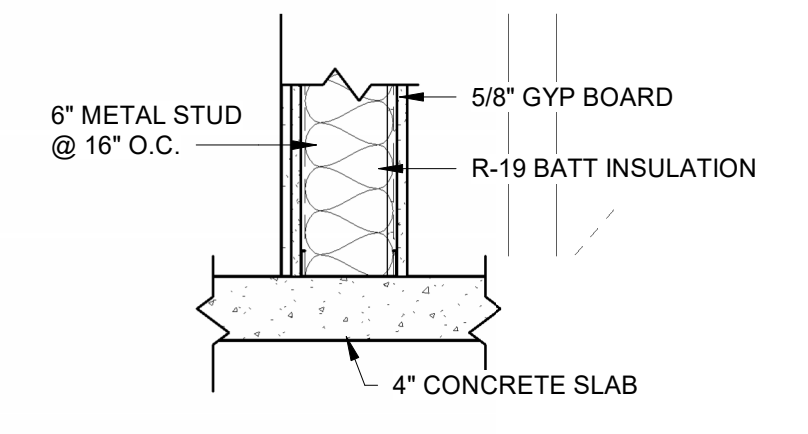
**4** DETAIL  
SCALE: 1" = 1'-0"



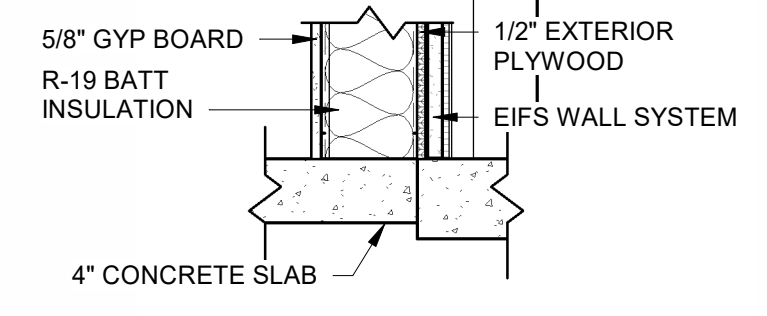
**5** DETAILS  
SCALE: 1" = 1'-0"



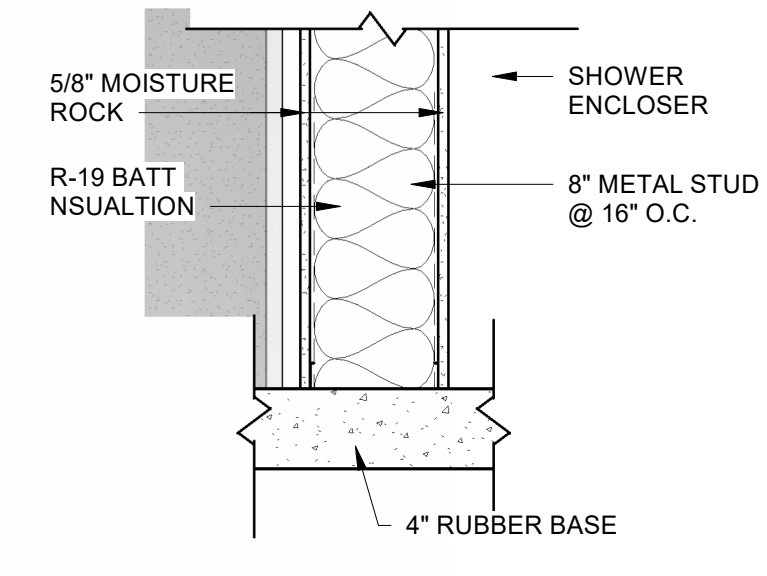
**6** DETAIL  
SCALE: 1" = 1'-0"



**7** DETAIL  
SCALE: 1" = 1'-0"



**8** DETAIL  
SCALE: 1" = 1'-0"



**9** DETAIL  
SCALE: 1" = 1'-0"

100% CD  
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CONSTRUCTION

**OEM EMERGENCY OPERATIONS CENTER**  
TORTUGAS TRAILS, LAS CRUCES, NM

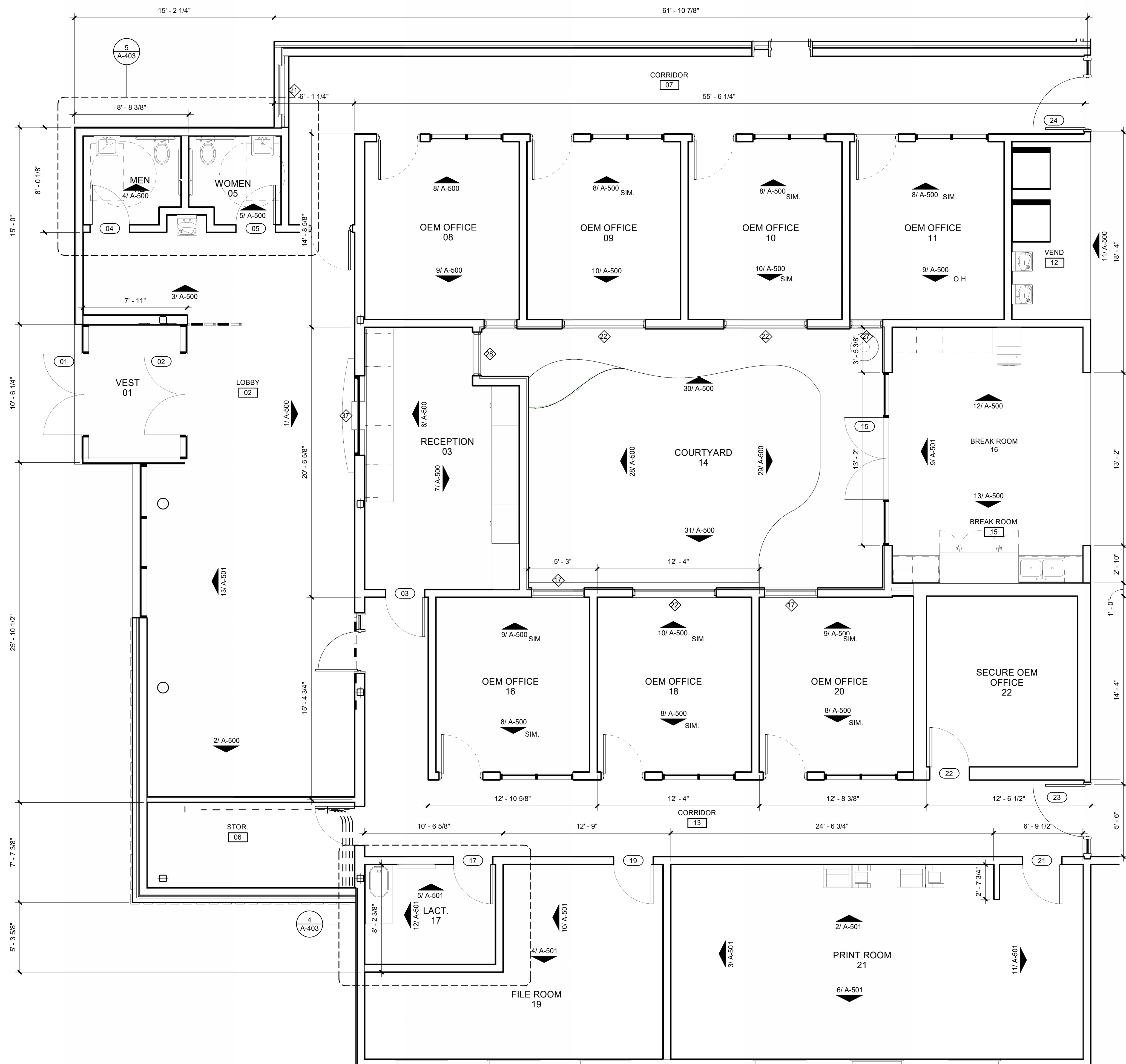
FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION
1	January 03 2025	ISSUE

PROJECT NO.: 22115L  
FILE NAME:  
DRAWN BY: Author  
CHECKED BY: Checker  
SHEET TITLE:

DETAILS

SHEET NO:  
**A-307**



**1 FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

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CONSTRUCTION

**OEM EMERGENCY OPERATIONS CENTER**  
TORTUGAS TRAILS, LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

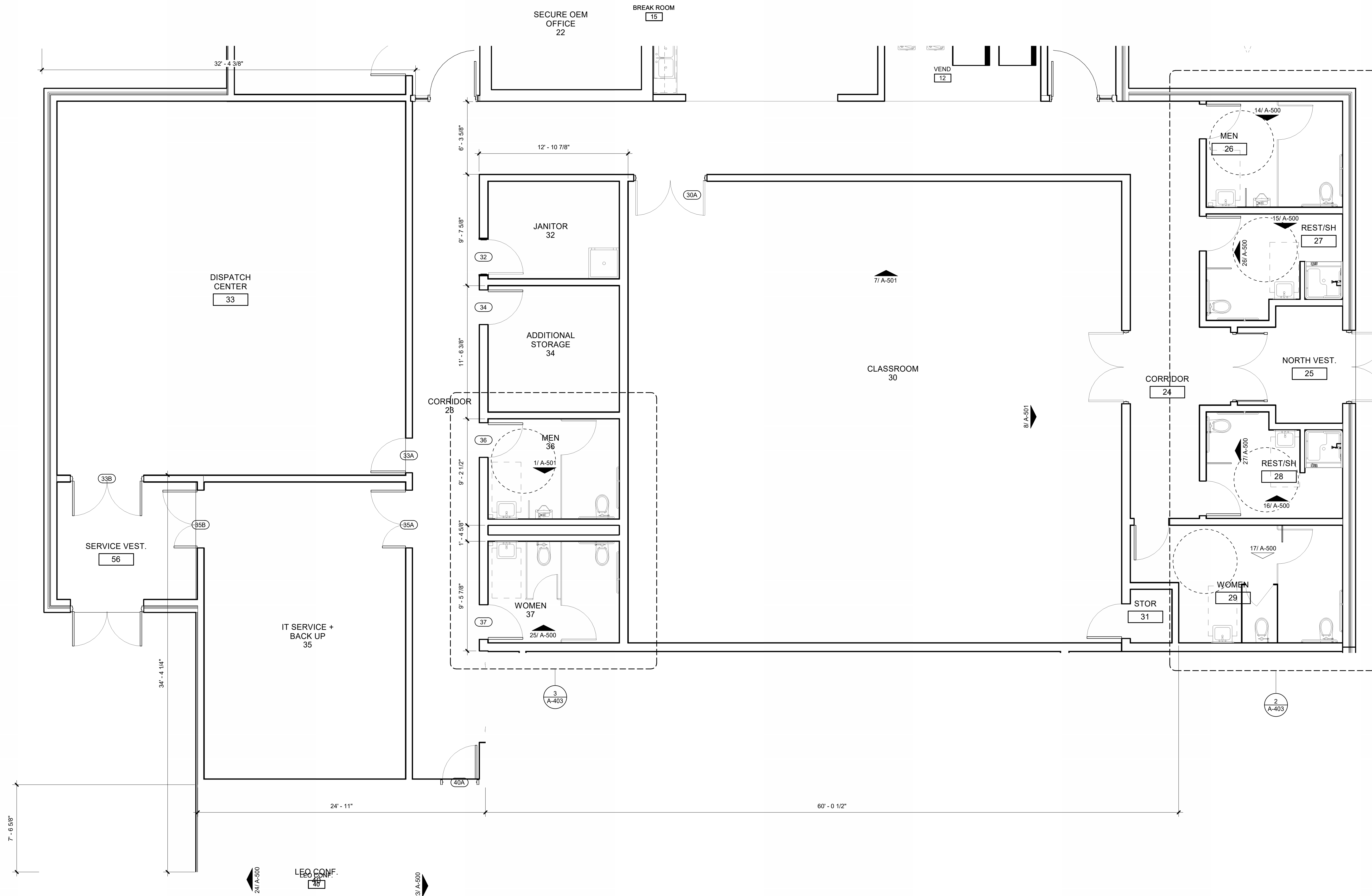
MARK	DATE	DESCRIPTION
1	1/03/2025	ISSUE

PROJECT NO.:	221151L
FILE NAME:	
DRAWN BY:	Author
CHECKED BY:	Checker
SHEET TITLE:	

**ENLARGED FLOOR PLAN**

SHEET NO:  
**A-400**

1/3/2025 2:46:01 PM C:\Users\alvarez\Documents\22115L\_OEM\_CD\_BLDG\_MODEL\_mamya\wdr243.rvt



**1 FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

100% CD  
NOT FOR  
CONSTRUCTION

**OEM EMERGENCY OPERATIONS CENTER**  
TORTUGAS TRAILS, LAS CRUCES, NM

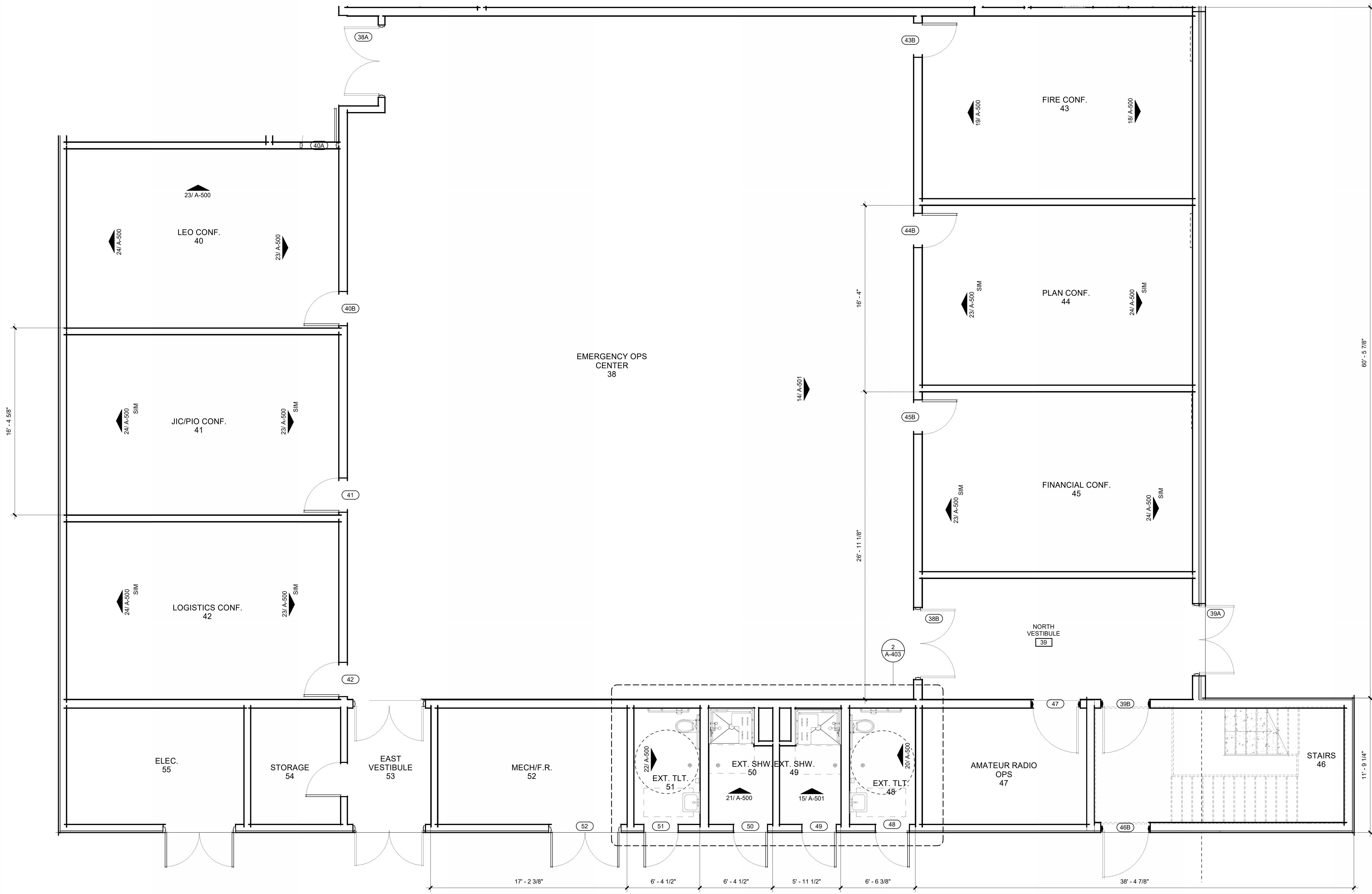
FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION	ISSUE

PROJECT NO.: 22115L  
FILE NAME: Author  
DRAWN BY: Checker  
CHECKED BY: Checker  
SHEET TITLE:

ENLARGED FLOOR PLANS

SHEET NO.: **A-401**



**1 FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

100% CD  
NOT FOR  
CONSTRUCTION

**OEM EMERGENCY OPERATIONS CENTER**  
TORTUGAS TRAILS, LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION
1	1/15/25	ISSUE

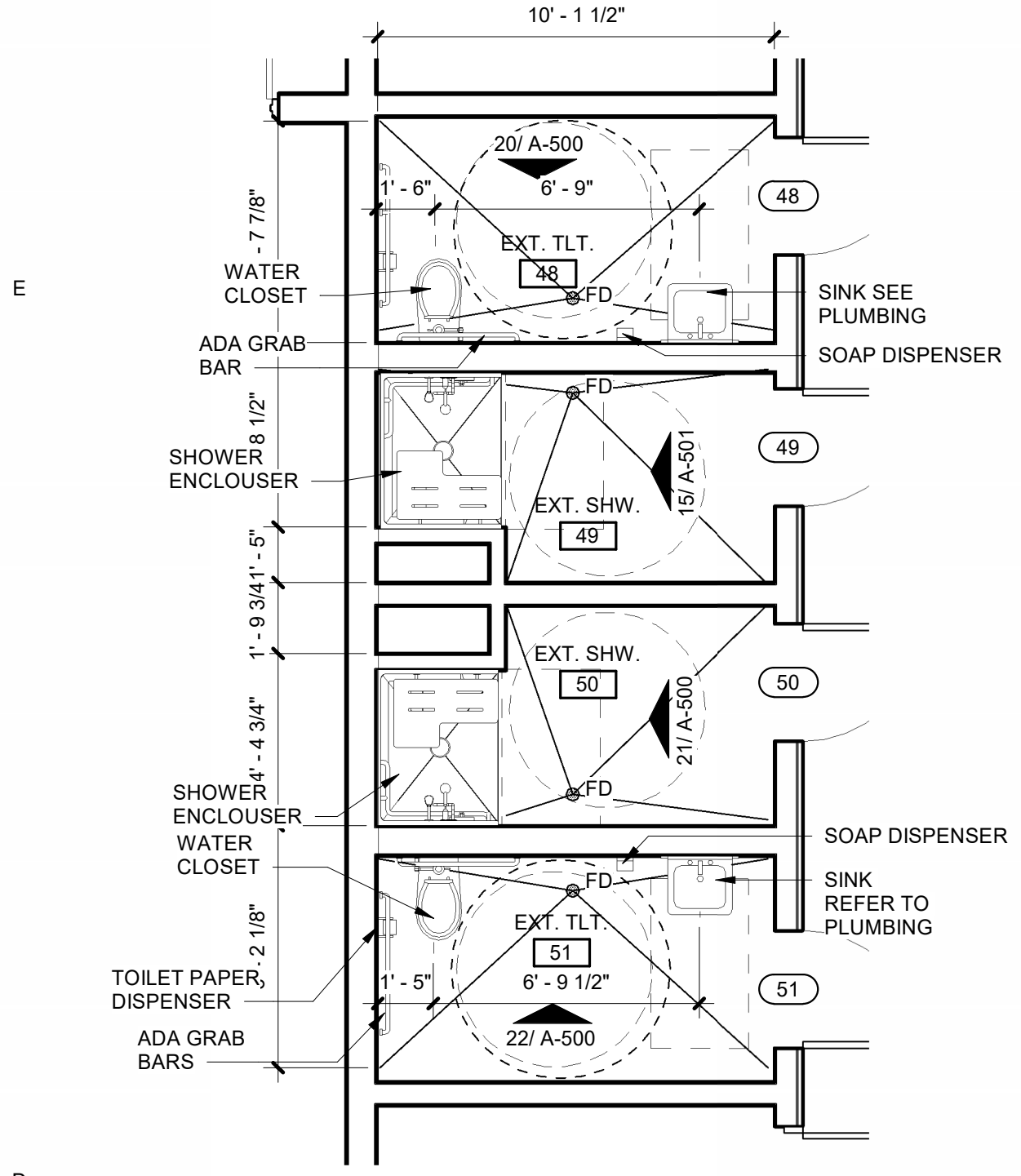
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FILE NAME:	
DRAWN BY:	Author
CHECKED BY:	Checker
SHEET TITLE:	

**ENLARGED FLOOR PLANS**

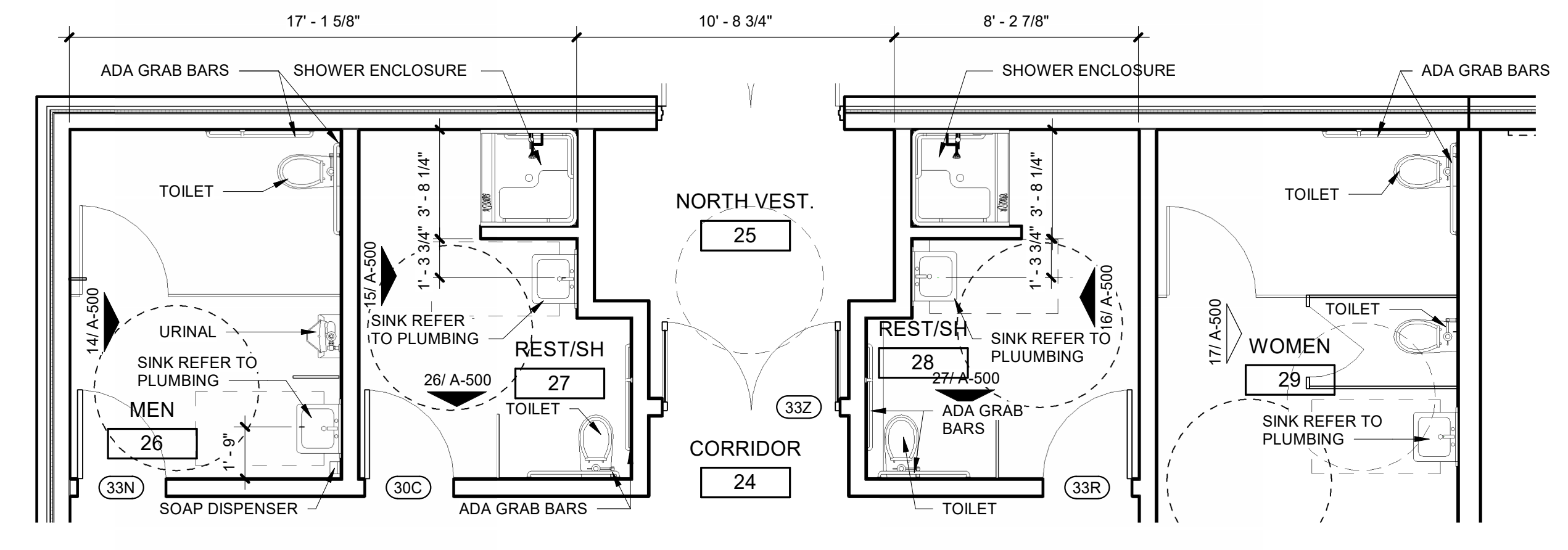
SHEET NO:  
**A-402**



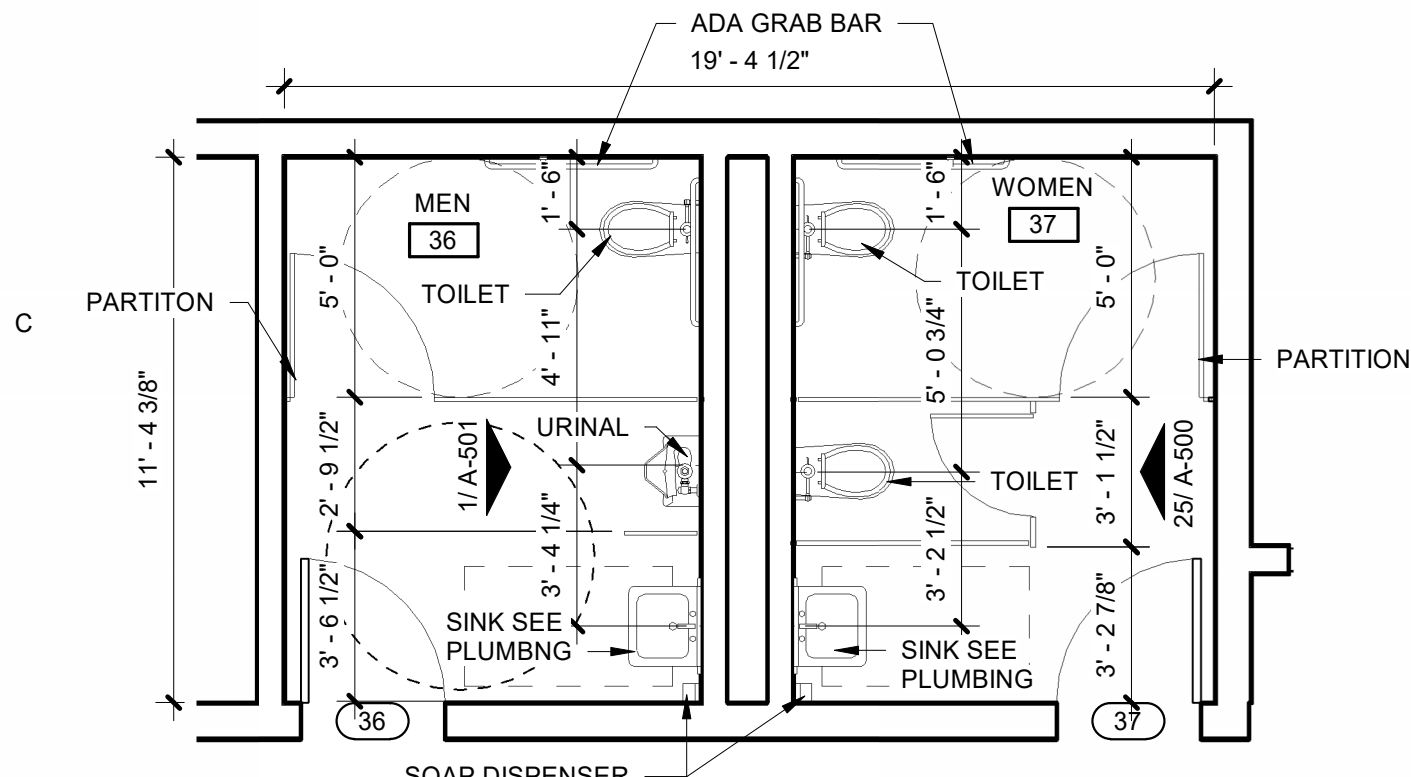
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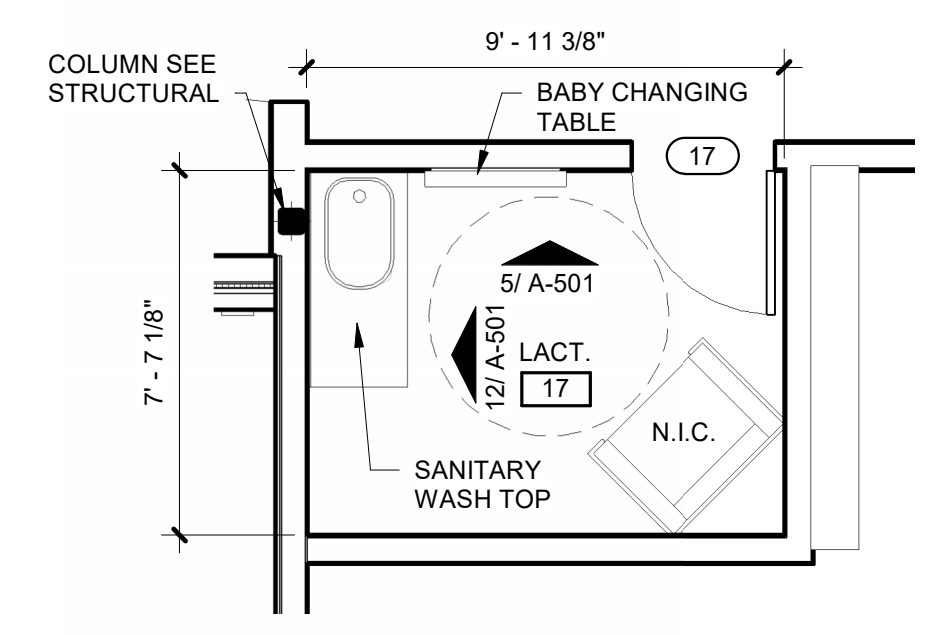
**1 PARTIAL FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



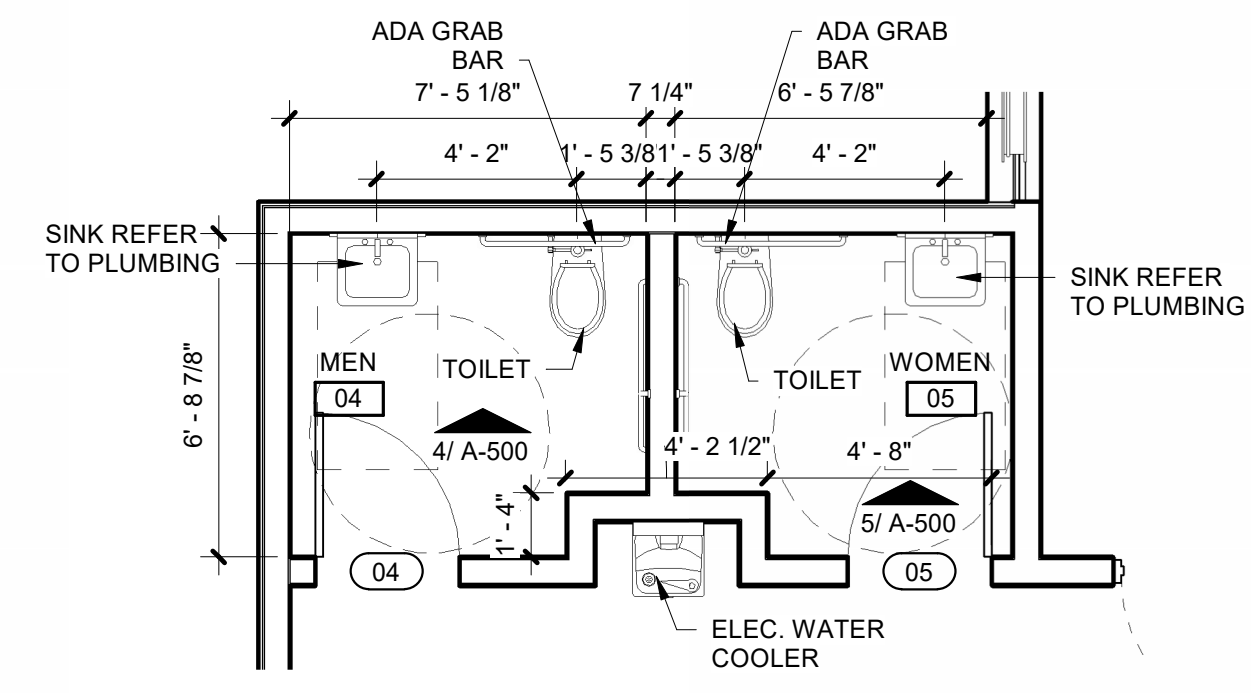
**2 PARTIAL FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



**3 PARTIAL FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



**4 PARTIAL FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



**5 PARTIAL FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

100% CD  
NOT FOR  
CONSTRUCTION

**OEM EMERGENCY OPERATIONS CENTER**  
TORTUGAS TRAILS, LAS CRUCES, NM

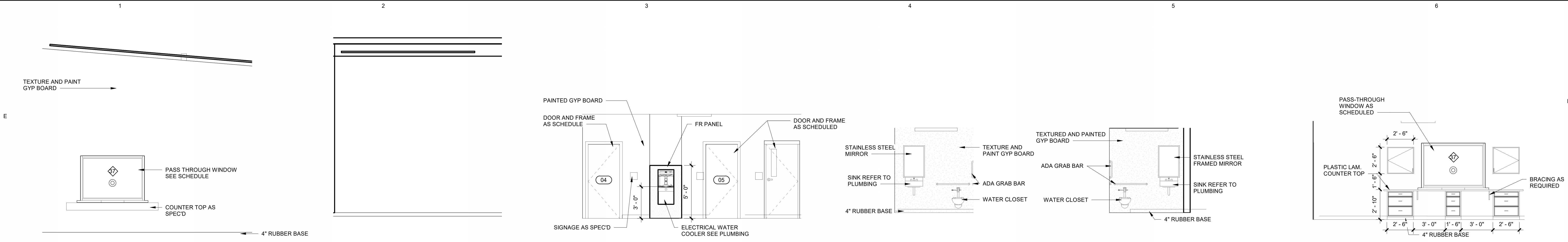
FOR:  
**DOÑA ANA COUNTY**  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION
1	1/03/2025	ISSUE

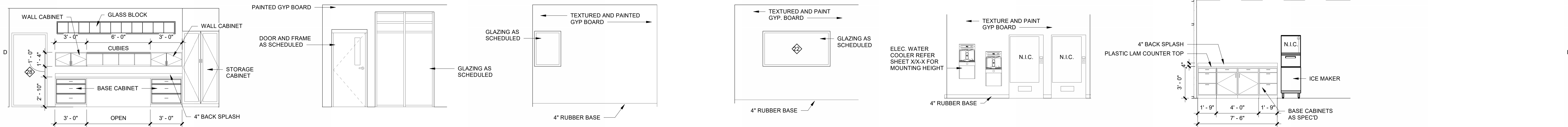
PROJECT NO.:	221151L
FILE NAME:	
DRAWN BY:	Author
CHECKED BY:	Checker
SHEET TITLE:	

**ENLARGED FLOOR PLANS**

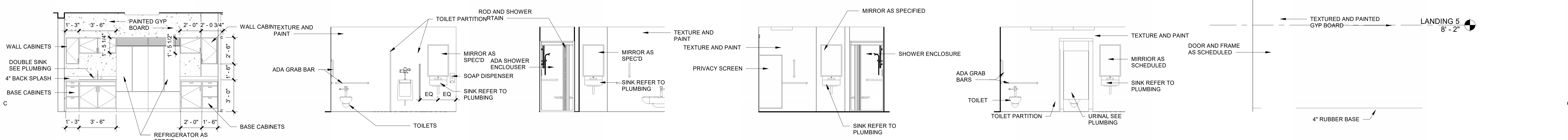
SHEET NO.:  
**A-403**



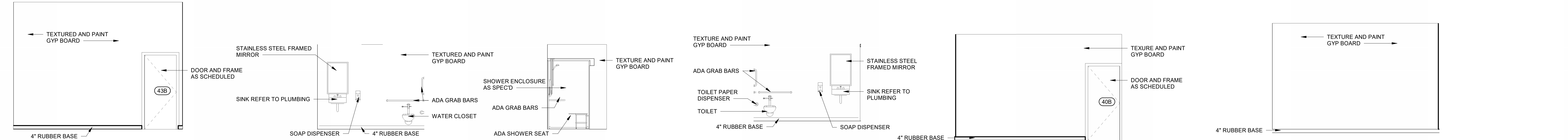
1 LOBBY SCALE: 1/4" = 1'-0"  
 2 LOBBY SCALE: 1/4" = 1'-0"  
 3 LOBBY SCALE: 1/4" = 1'-0"  
 4 MENS 04 SCALE: 1/4" = 1'-0"  
 5 WOMENS 05 SCALE: 1/4" = 1'-0"  
 6 RECEPTION AREA SCALE: 1/4" = 1'-0"



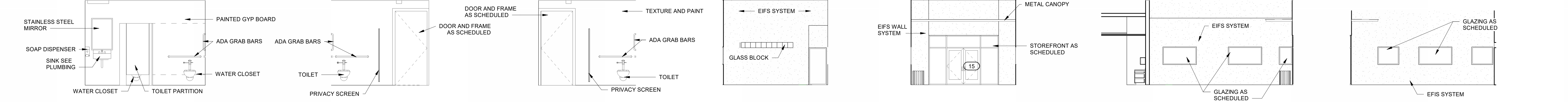
7 RECEPTION AREA SCALE: 1/4" = 1'-0"  
 8 OEM OFFICE SCALE: 1/4" = 1'-0"  
 9 OEM OFFICE SCALE: 1/4" = 1'-0"  
 10 OEM OFFICE SCALE: 1/4" = 1'-0"  
 11 VENDING AREA SCALE: 1/4" = 1'-0"  
 12 BREAK ROOM SCALE: 1/4" = 1'-0"



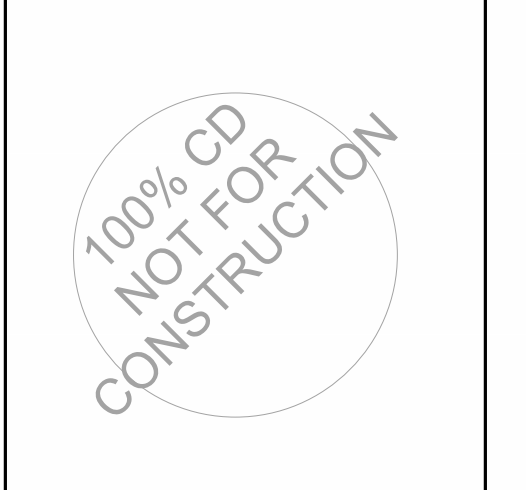
13 BREAK ROOM SCALE: 1/4" = 1'-0"  
 14 WOMENS 26 SCALE: 1/4" = 1'-0"  
 15 SHOWER/REST 27 SCALE: 1/4" = 1'-0"  
 16 REST./SHOWER 28 SCALE: 1/4" = 1'-0"  
 17 MENS 29 SCALE: 1/4" = 1'-0"  
 18 FIRE CONFERENCE RM SCALE: 1/4" = 1'-0"



19 FIRE CONFERENCE RM SCALE: 1/4" = 1'-0"  
 20 EXT. TOILET 48 SCALE: 1/4" = 1'-0"  
 21 EXT. SHOWER 50 SCALE: 1/4" = 1'-0"  
 22 EXT. TOILET 51 SCALE: 1/4" = 1'-0"  
 23 LEO CONFERENCE 40 SCALE: 1/4" = 1'-0"  
 24 LEO CONFERENCE 40 SCALE: 1/4" = 1'-0"



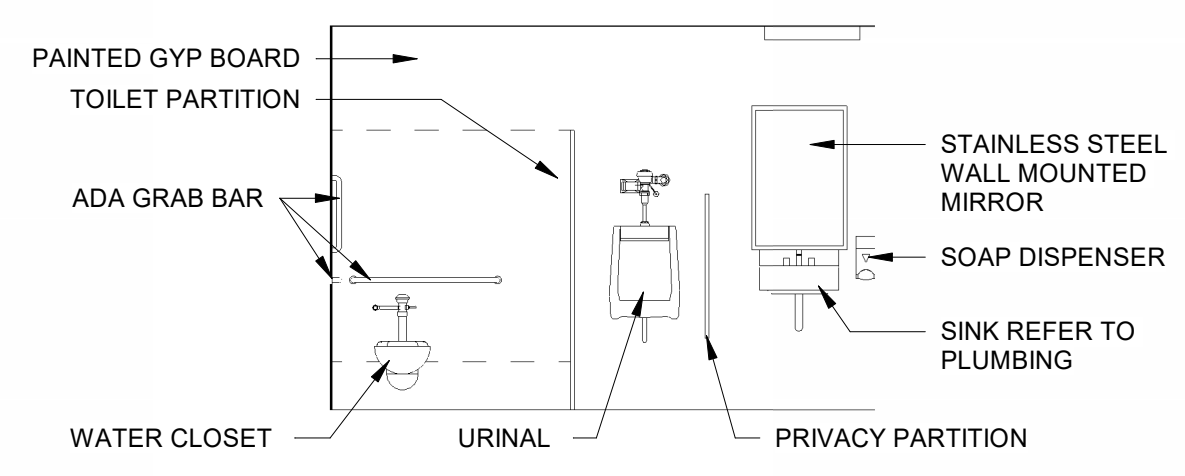
25 Elevation 13 - a SCALE: 1/4" = 1'-0"  
 26 Elevation 44 - a SCALE: 1/4" = 1'-0"  
 27 Elevation 46 - a SCALE: 1/4" = 1'-0"  
 28 COURTYARD ELEV. SCALE: 1/8" = 1'-0"  
 29 COURTYARD ELEV. SCALE: 1/8" = 1'-0"  
 30 COURTYARD ELEV. SCALE: 1/8" = 1'-0"  
 31 COURTYARD ELEV. SCALE: 1/8" = 1'-0"



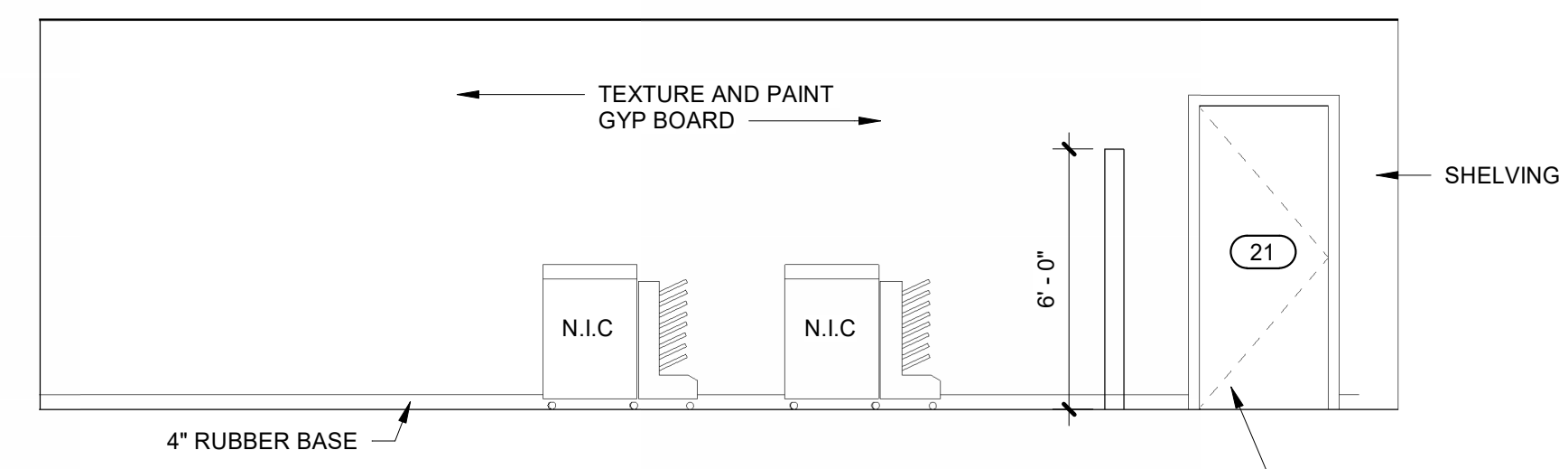
MARK	DATE	DESCRIPTION
1	1/10/25	ISSUE
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PROJECT NO.:	22115L
FILE NAME:	
DRAWN BY:	Author
CHECKED BY:	Checker
SHEET TITLE:	
INTERIOR ELEVATIONS	
SHEET NO.:	A-500

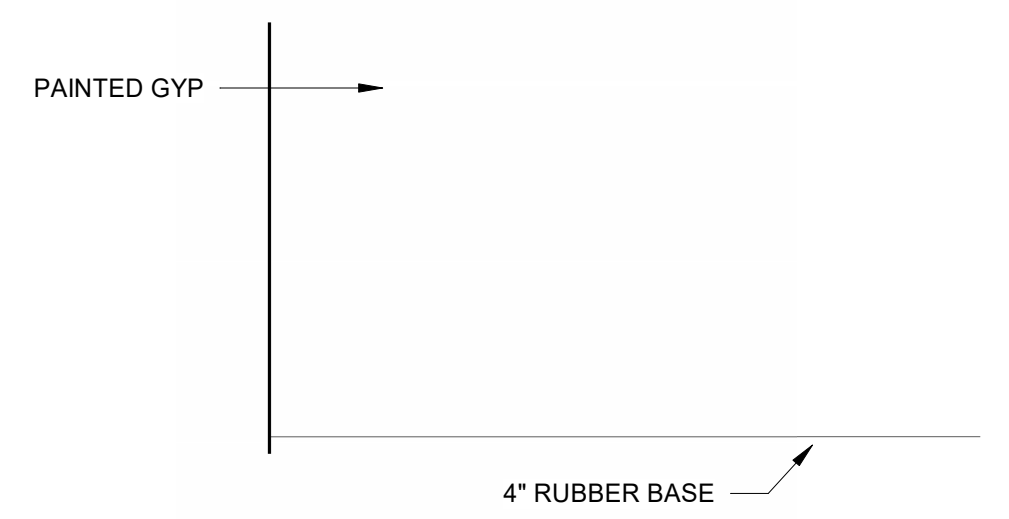
C:\Users\alvarez\Documents\22115L\_OEM\_CD\_BLDG\_MODEL\_mam\alvarez2413.rvt 1/13/2025 2:46:08 PM



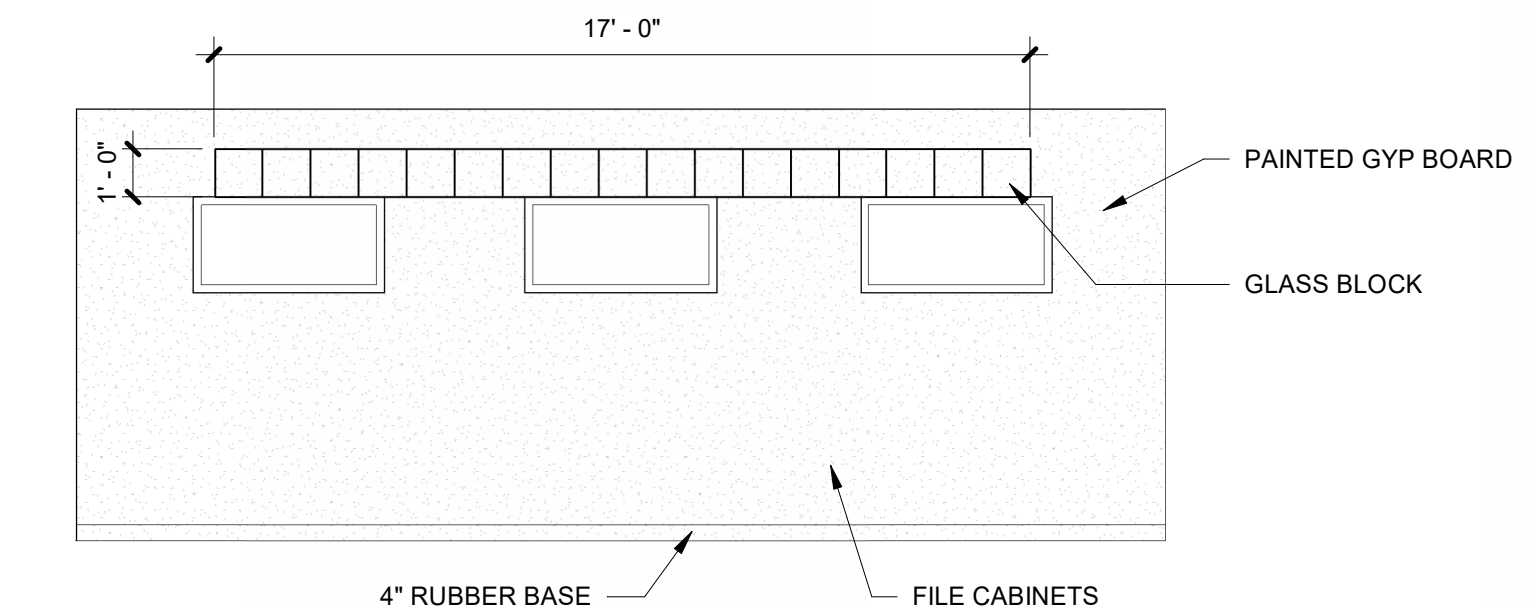
1 MEN 36  
SCALE: 1/4" = 1'-0"



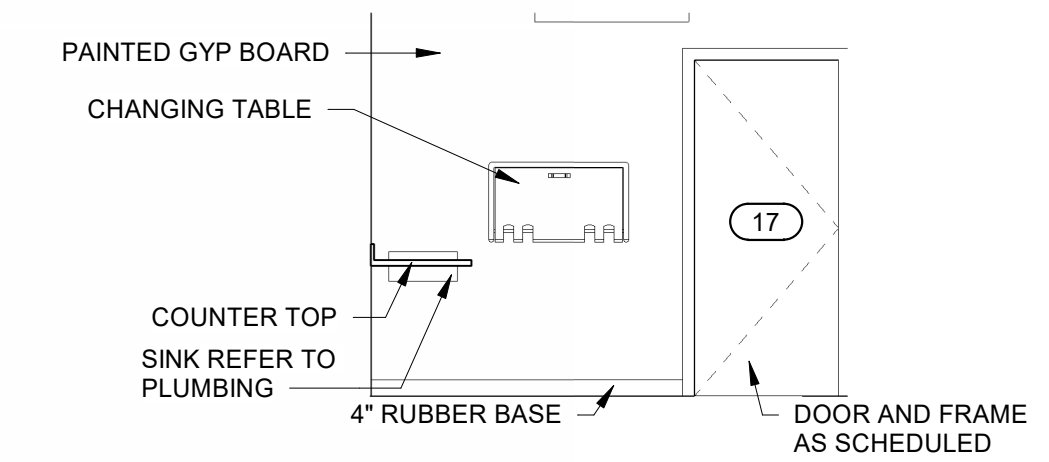
2 PRINT ROOM 21  
SCALE: 1/4" = 1'-0"



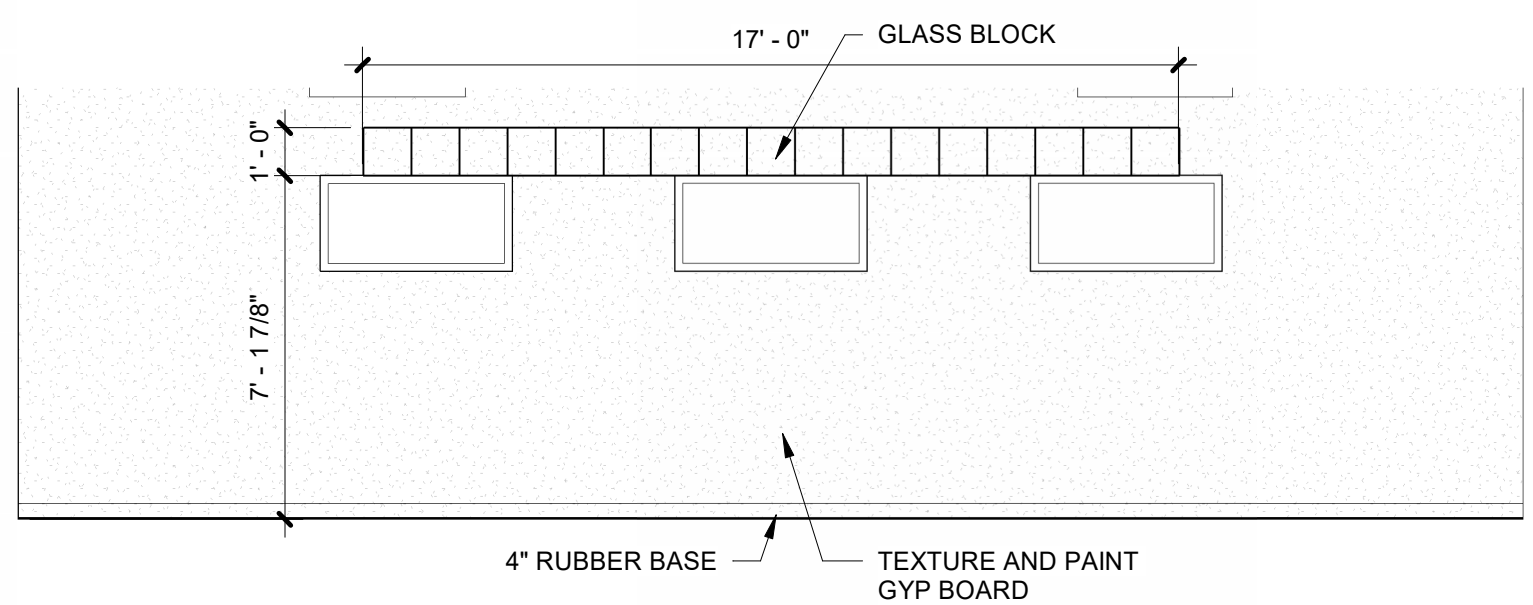
3 PRINT ROOM 21  
SCALE: 1/4" = 1'-0"



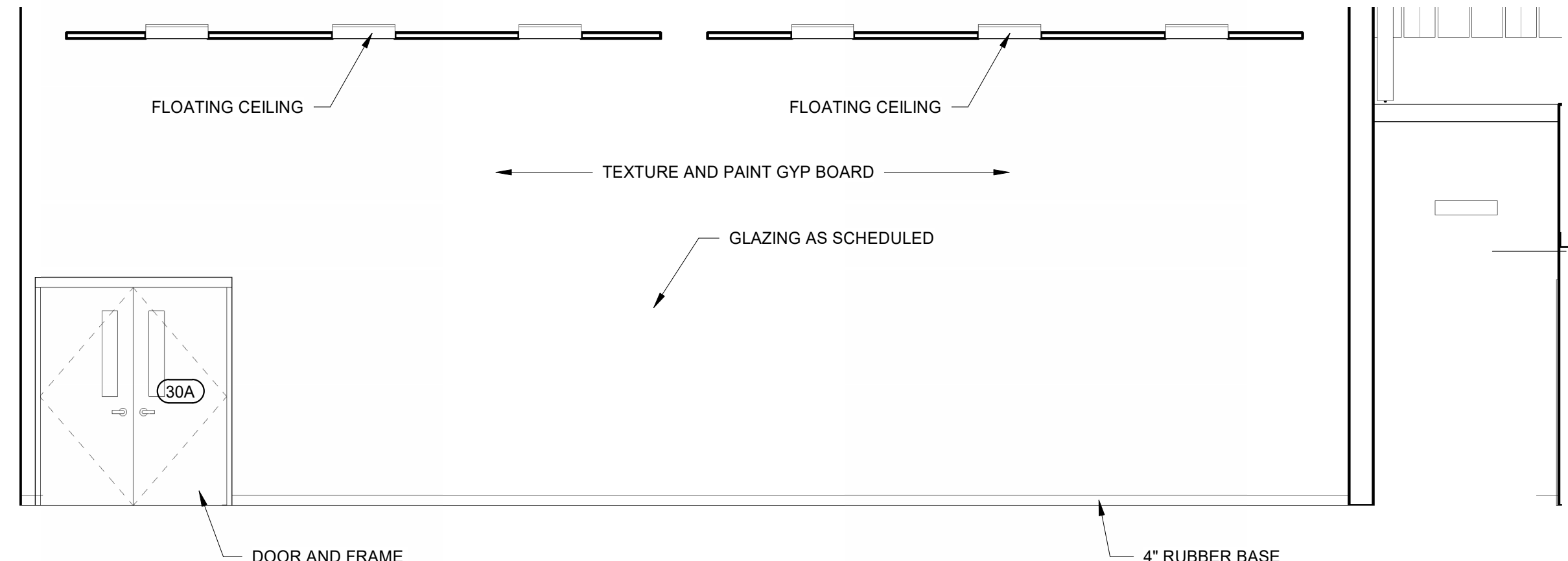
4 FILE ROOM  
SCALE: 1/4" = 1'-0"



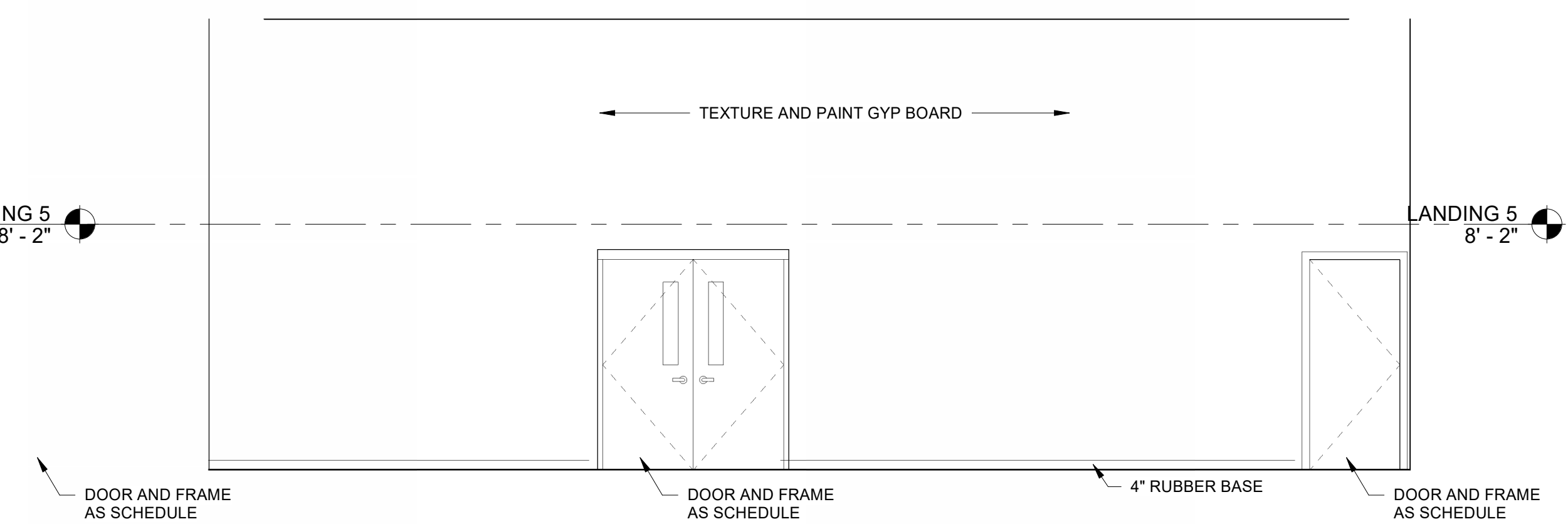
5 LACT. 17  
SCALE: 1/4" = 1'-0"



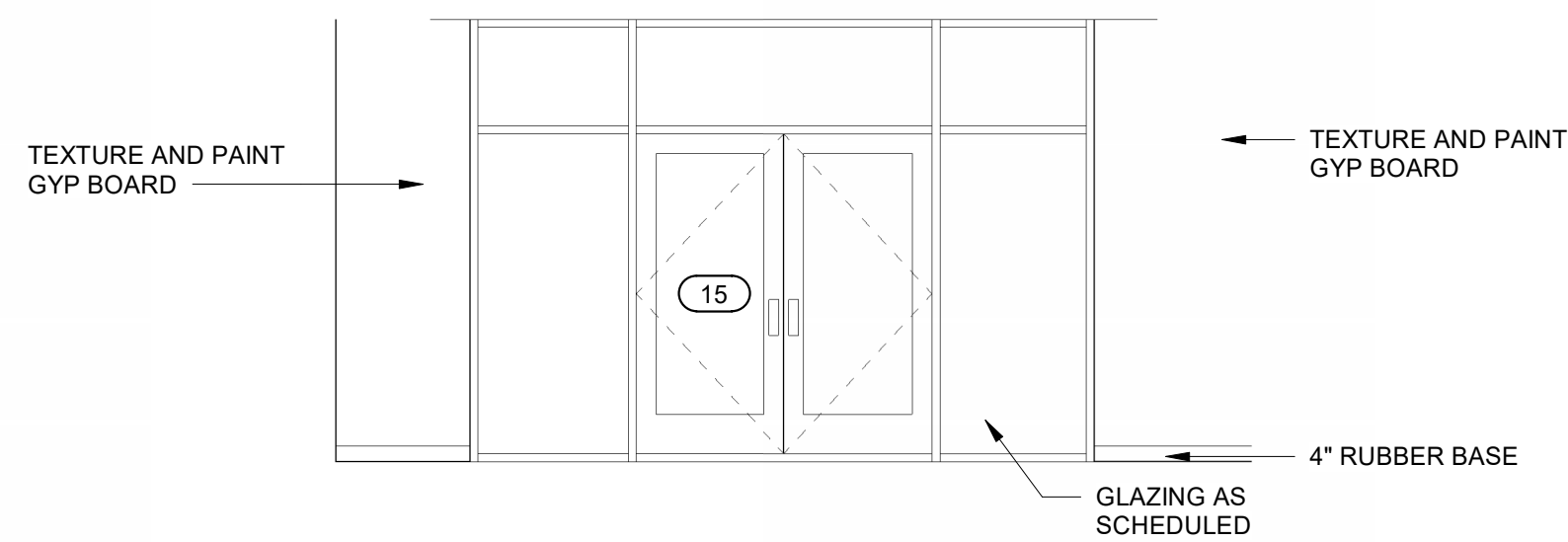
6 PRINT ROOM 21  
SCALE: 1/4" = 1'-0"



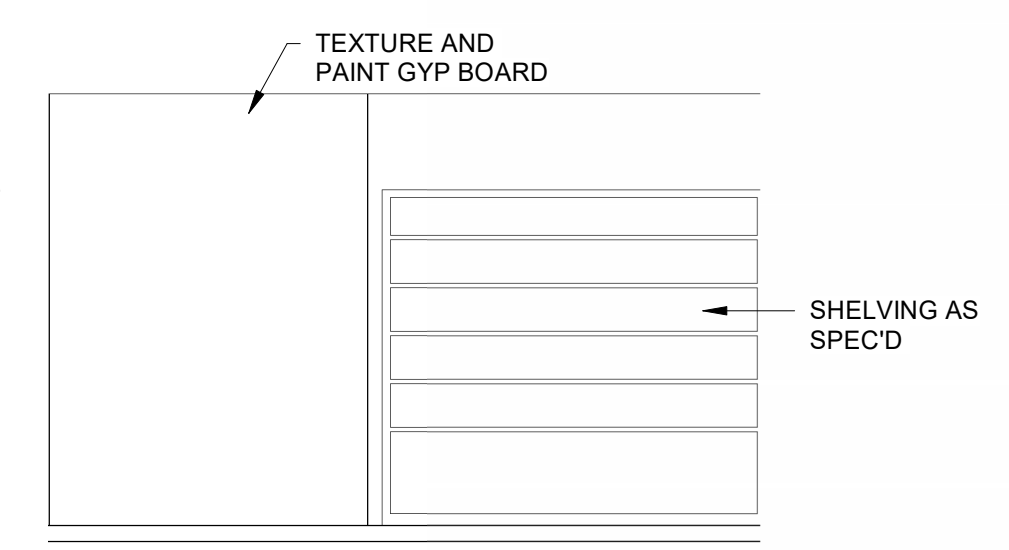
7 CLASSROOM 30  
SCALE: 1/4" = 1'-0"



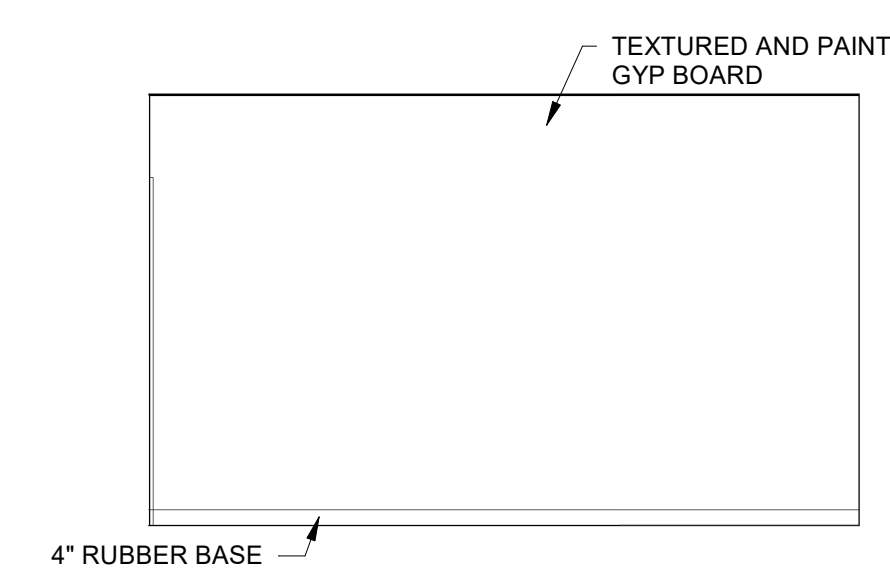
8 CLASSROOM 30  
SCALE: 1/4" = 1'-0"



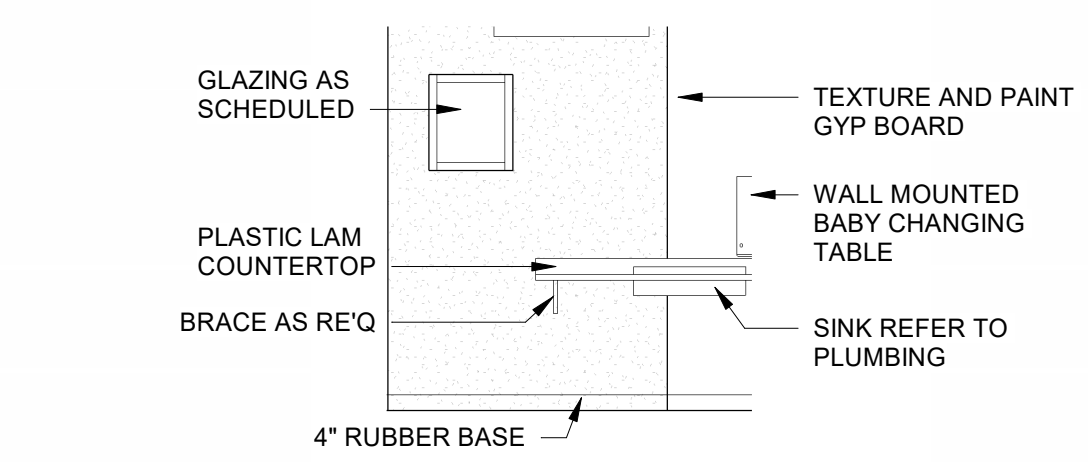
9 BREAK ROOM 15  
SCALE: 1/4" = 1'-0"



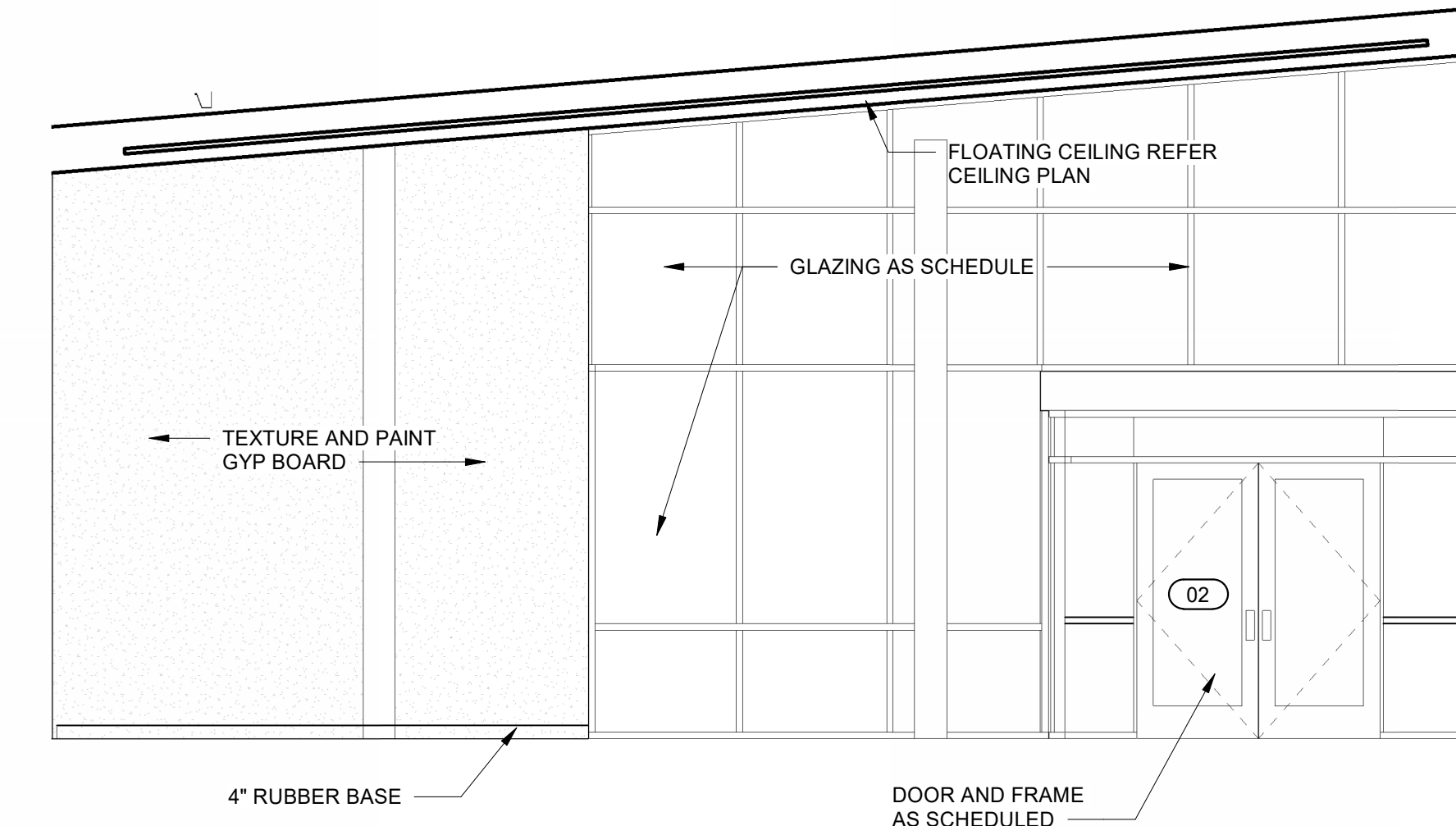
10 FILE ROOM 19  
SCALE: 1/4" = 1'-0"



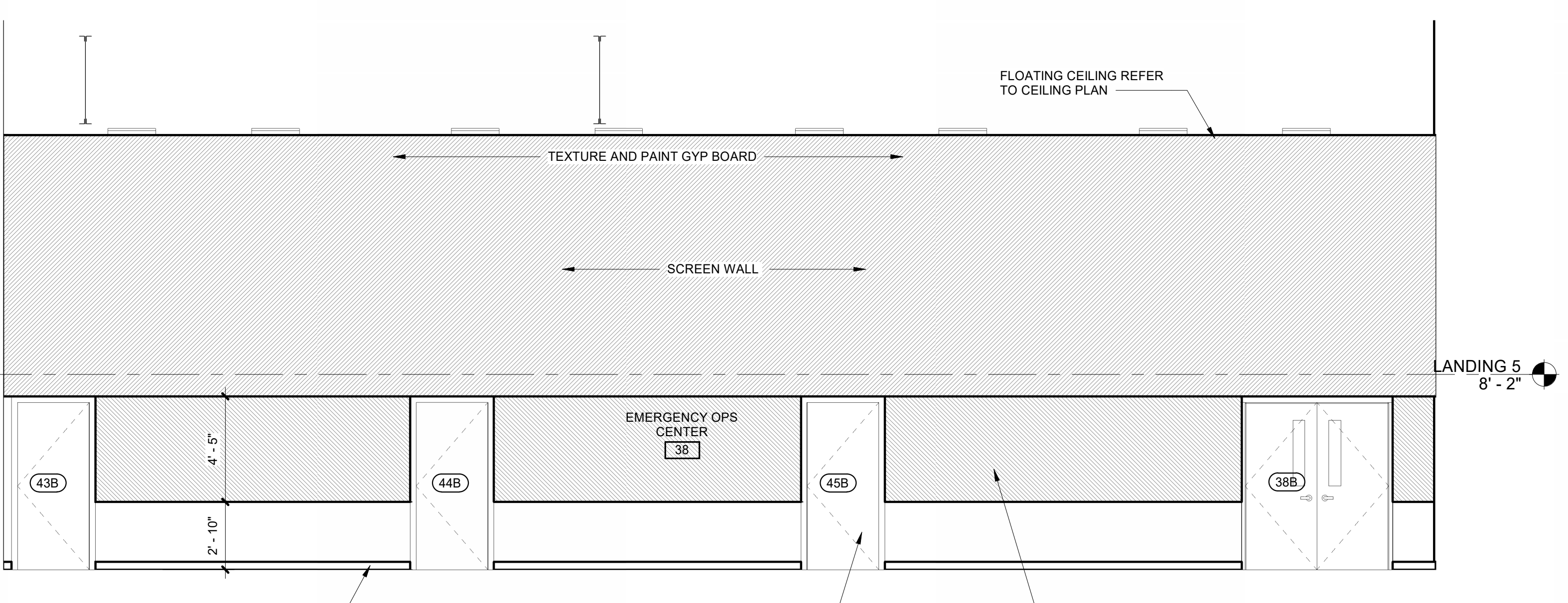
11 PRINT ROOM 21  
SCALE: 1/4" = 1'-0"



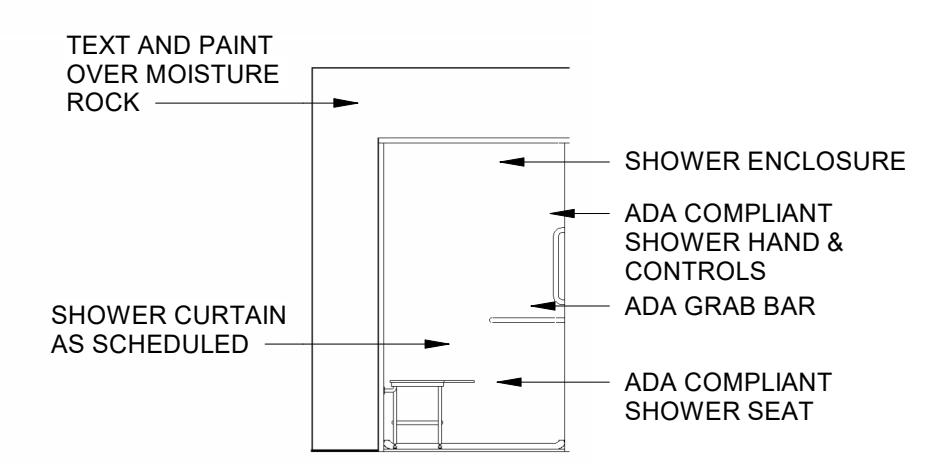
12 LACT. 17  
SCALE: 1/4" = 1'-0"



13 LOBBY 02  
SCALE: 1/4" = 1'-0"



14 ECO INTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"



15 SHOWER (TYP.)  
SCALE: 1/4" = 1'-0"

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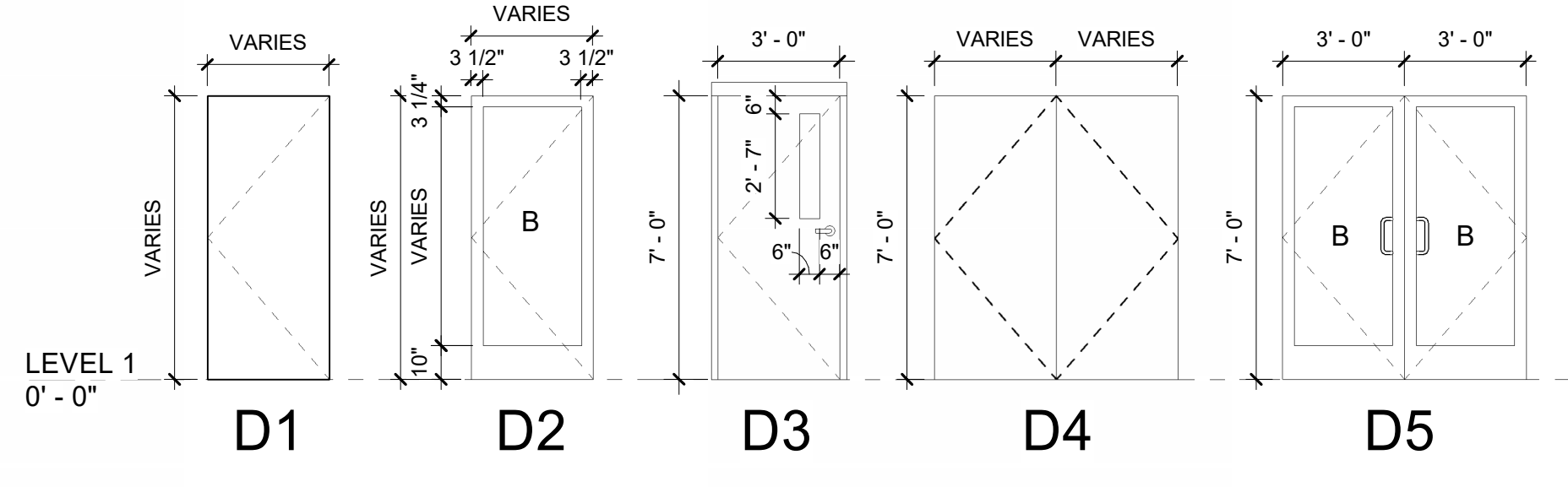
100% CD  
NOT FOR  
CONSTRUCTION

**OEM EMERGENCY OPERATIONS CENTER**  
TORTUGAS TRAILS, LAS CRUCES, NM  
FOR: DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

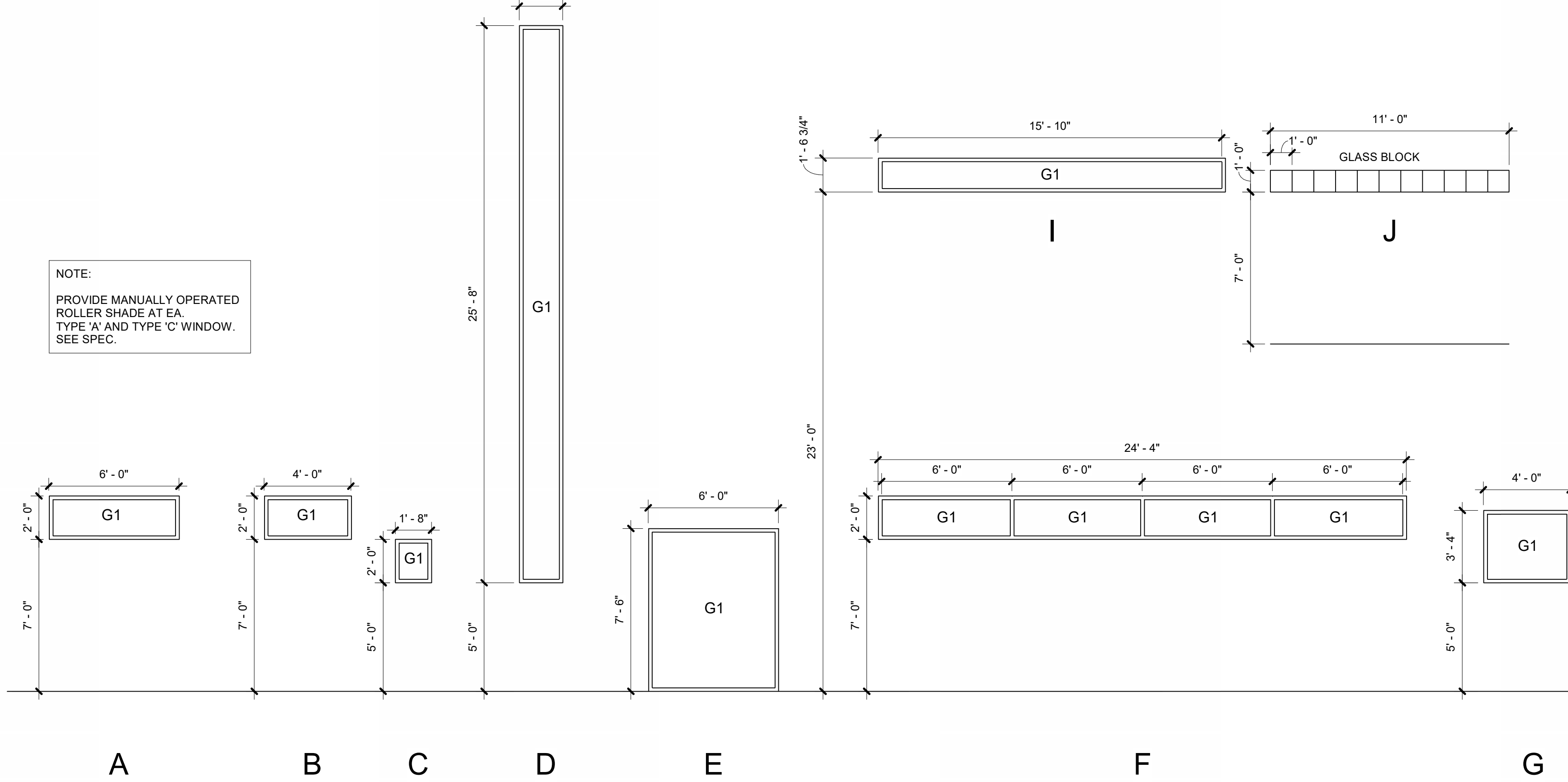
MARK	DATE	DESCRIPTION

PROJECT NO.: 221151L  
FILE NAME:  
DRAWN BY: Author  
CHECKED BY: Checker  
SHEET TITLE:

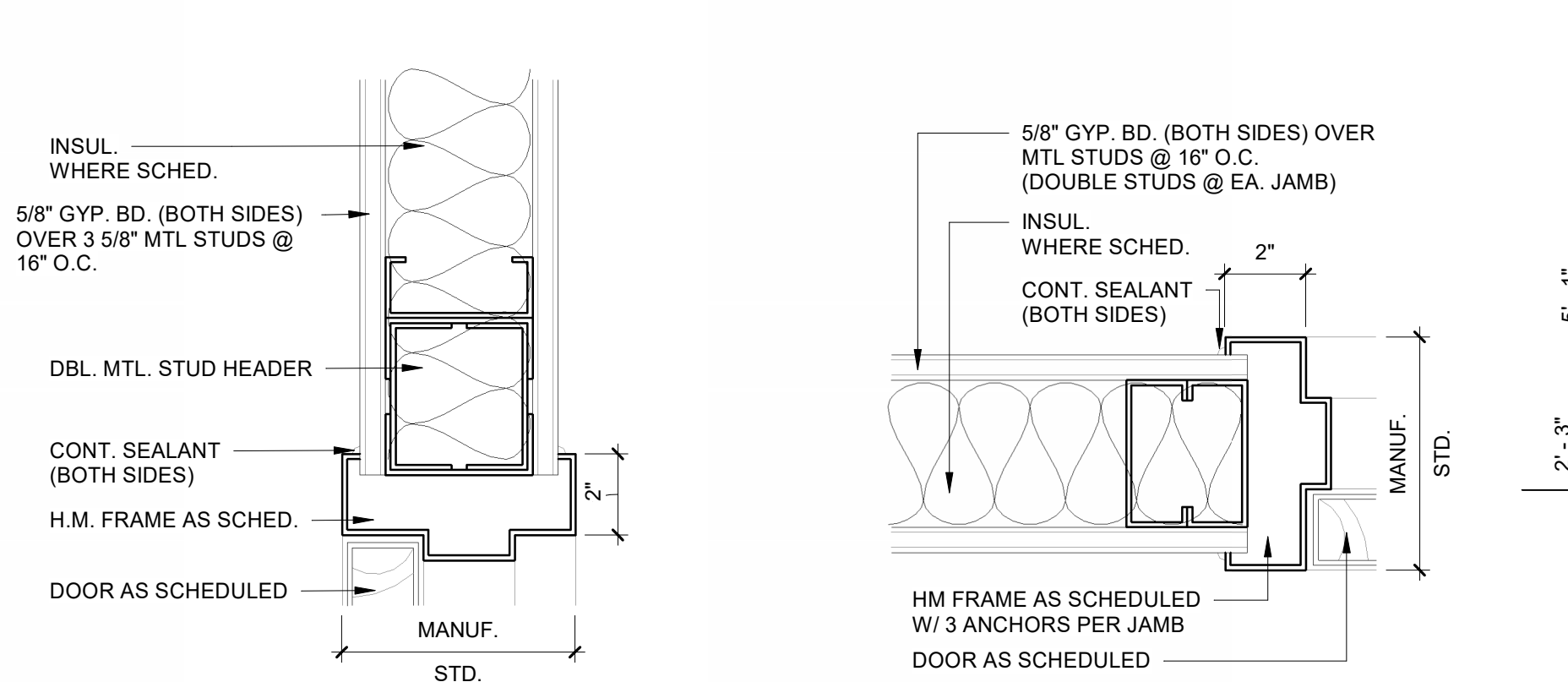
INTERIOR ELEVATIONS  
SHEET NO: A-501



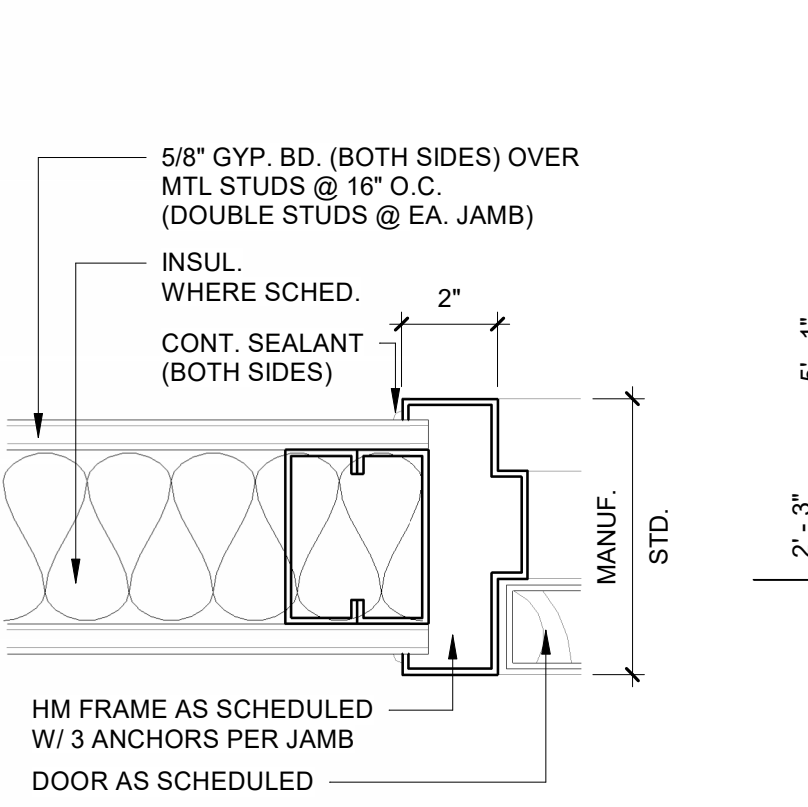
**DOOR TYPES**  
 SCALE: 1/4" = 1'-0"



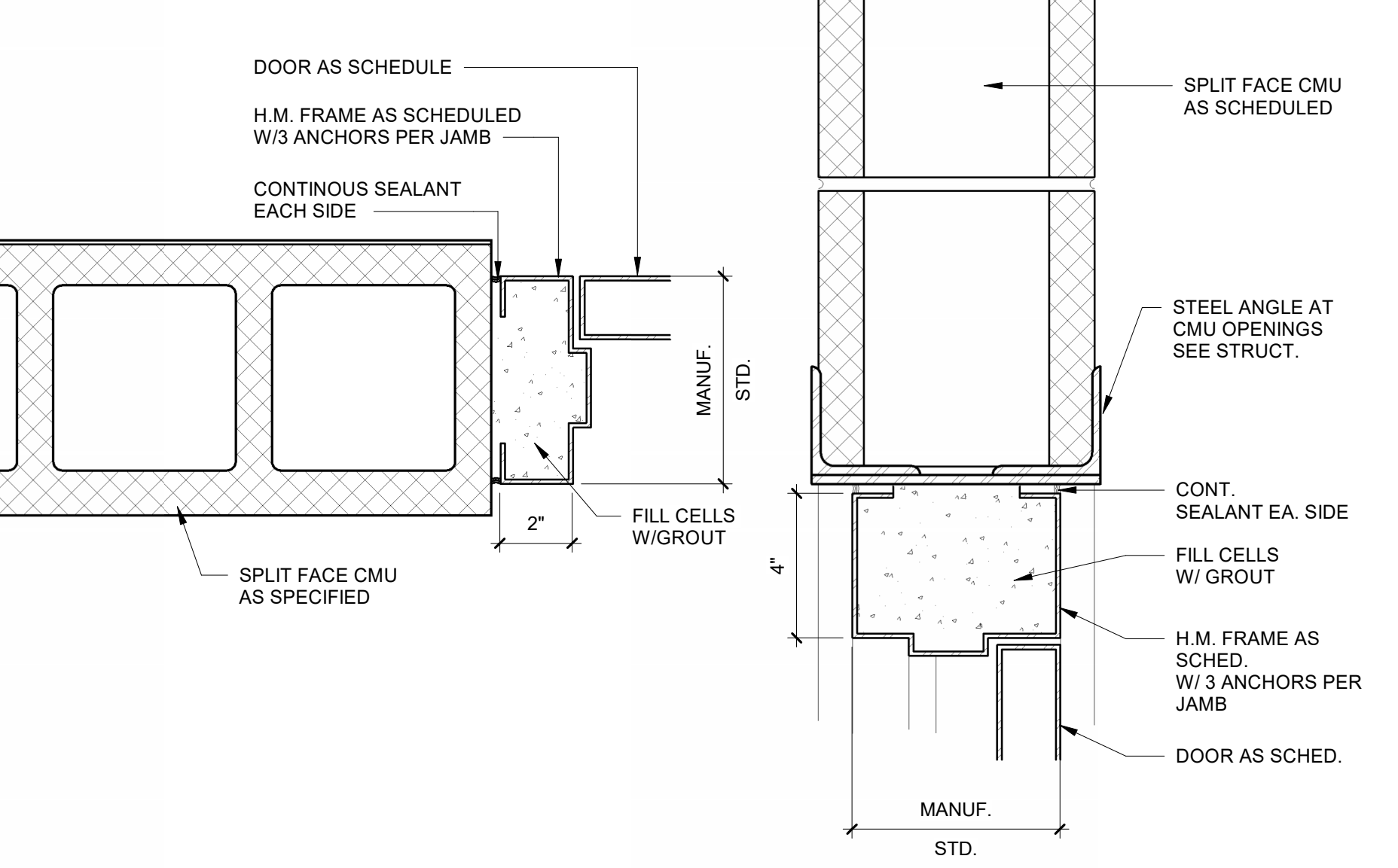
**WINDOW TYPE**  
 SCALE: 1/4" = 1'-0"



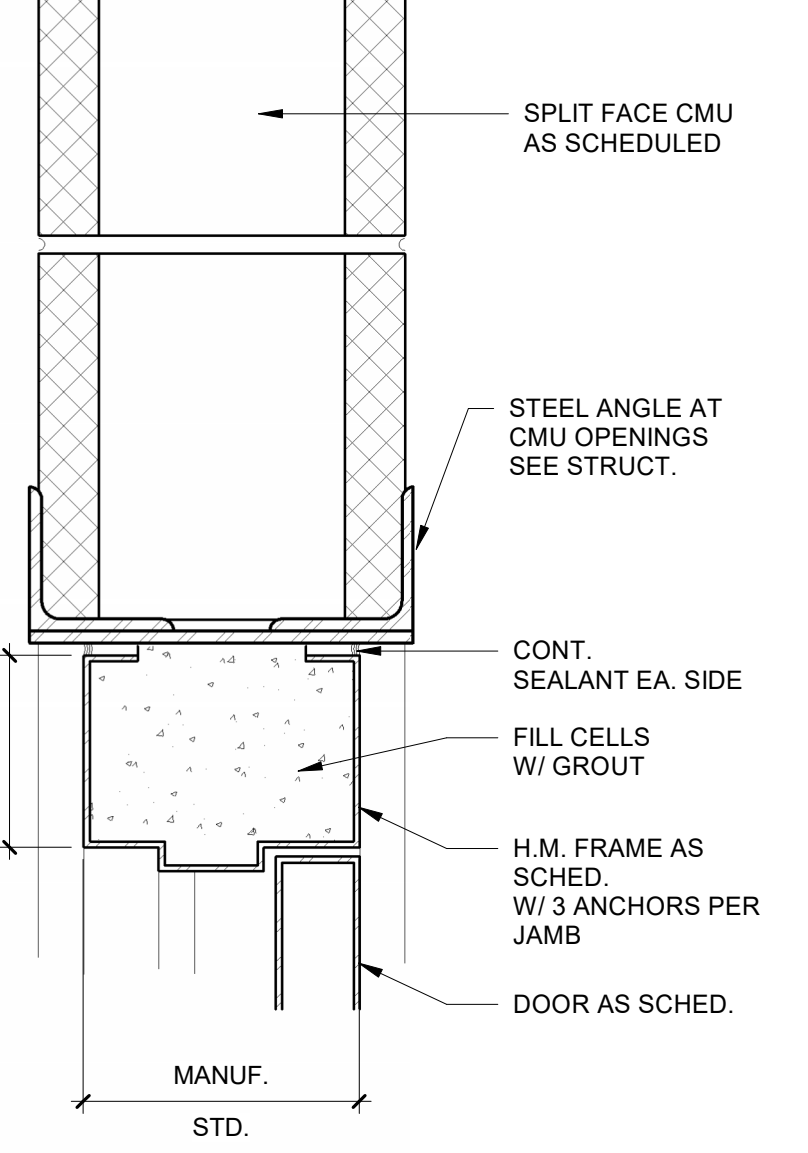
**4 HEAD DETAIL**  
 SCALE: 3" = 1'-0"



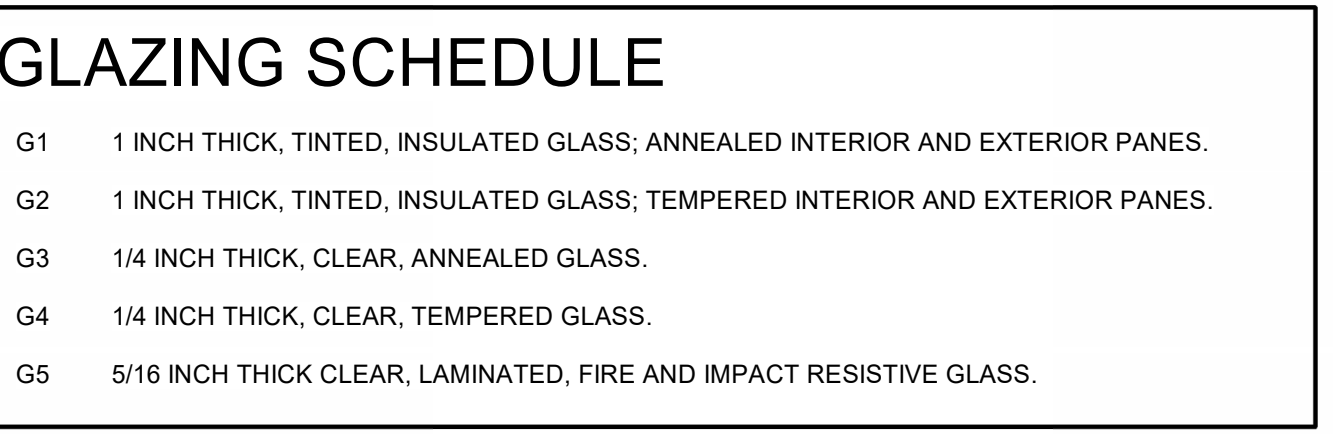
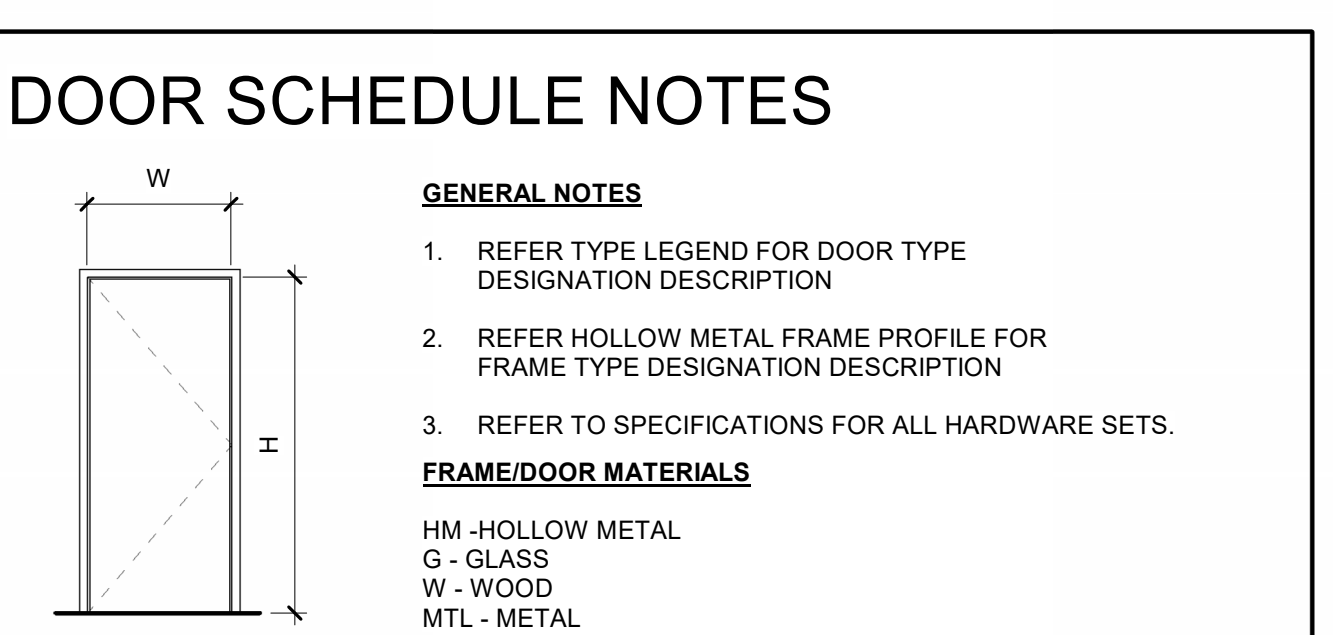
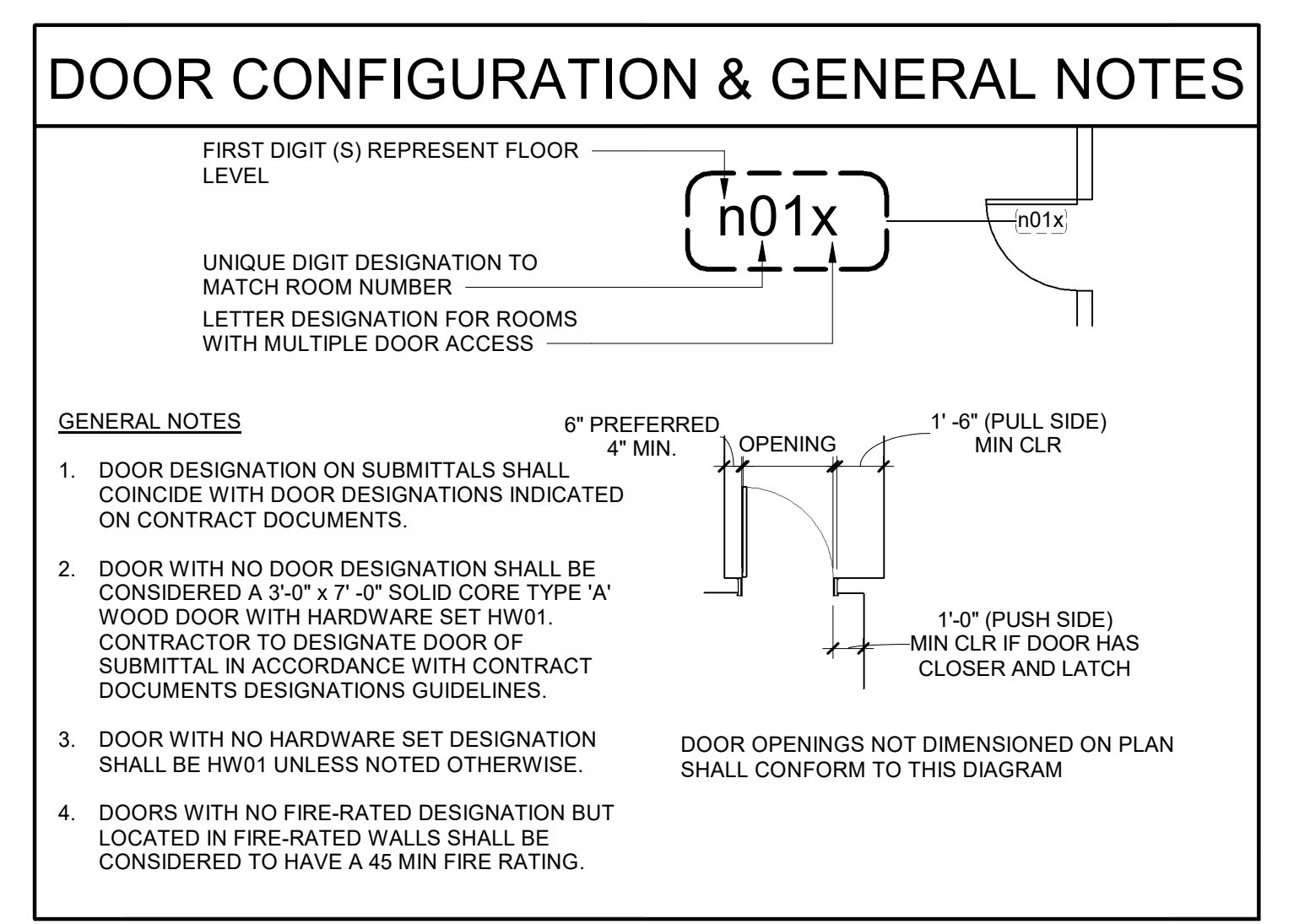
**5 JAMB DETAIL**  
 SCALE: 3" = 1'-0"



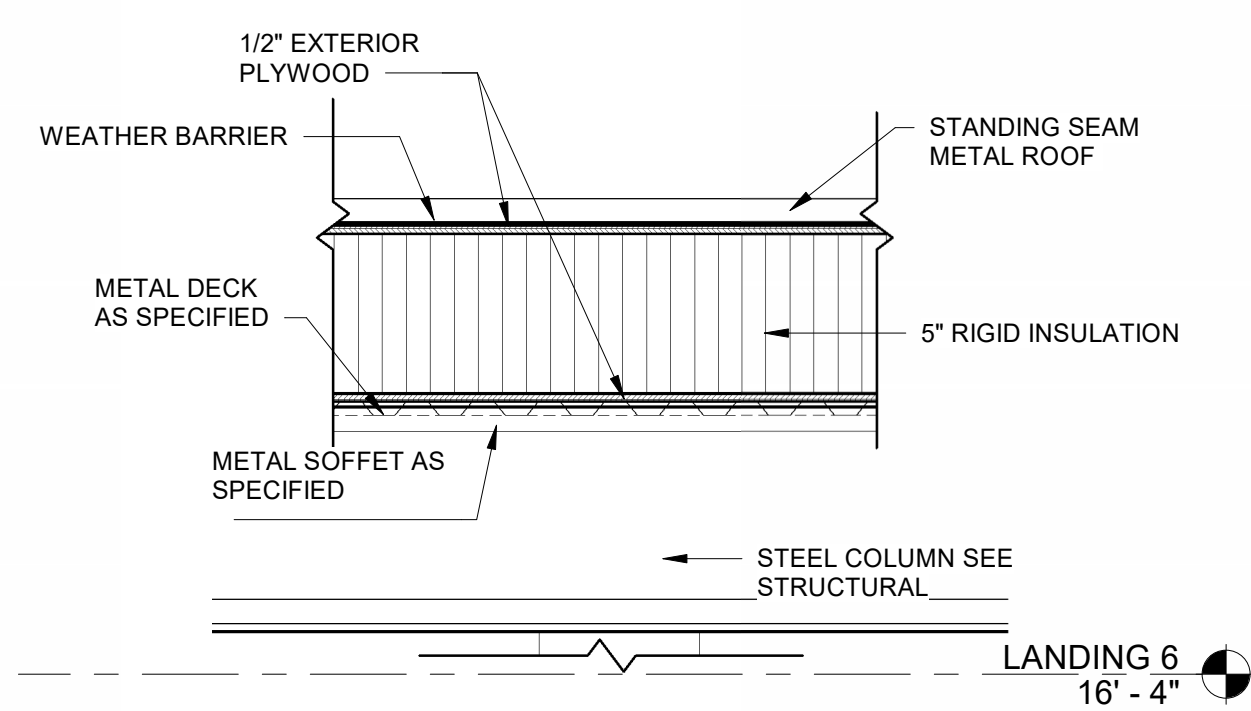
**6 JAMB DETAIL-CMU**  
 SCALE: 3" = 1'-0"



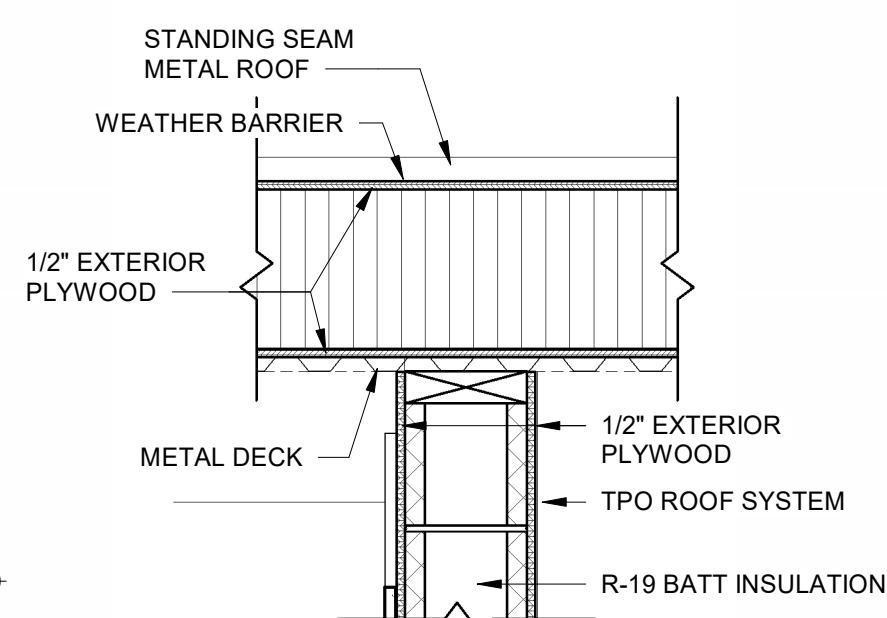
**7 HEAD DETAIL-CMU**  
 SCALE: 3" = 1'-0"



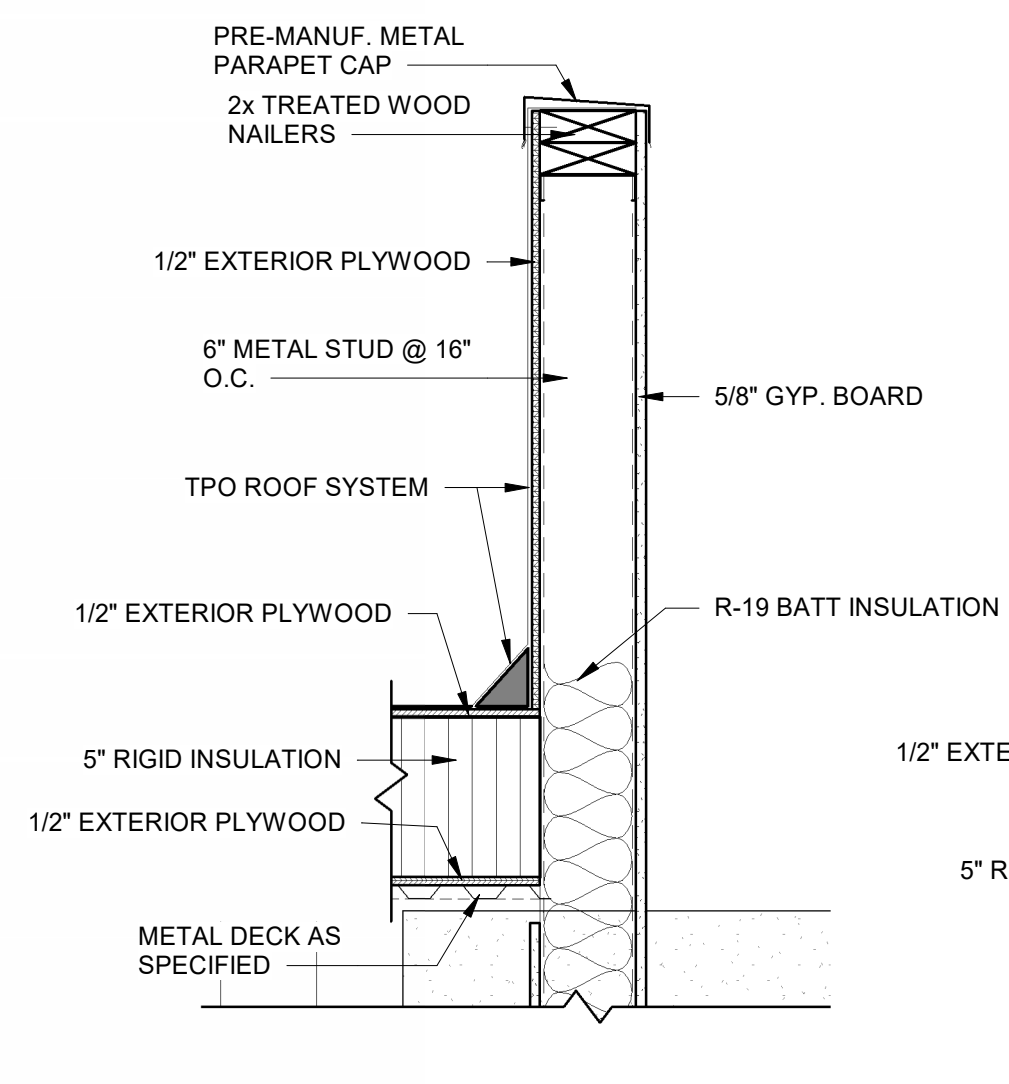
DOOR NO.	DOOR				FRAME				GLAZING TYPE	FIRE RATING	REMARKS
	TYPE	MATL.	WIDTH	HEIGHT	TYPE	MATL.	HEAD	JAMB			
01	D5		6'-2"	7'-0"	F4		4/A-600	5/A-600		G1	
02	D5		6'-2"	7'-0"	F4		4/A-600	5/A-600		G1	
03	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
04	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
05	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
06	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
07B	D2		3'-0"	7'-0"	F2		4/A-600	5/A-600		G1	
08	D3		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
09	D3		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
10	D3		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
11	D3		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
13A	D2		3'-0"	7'-0"	F2		4/A-600	5/A-600		G1	
15	D5		6'-3"	6'-9"	F6		4/A-600	5/A-600		G1	
16	D3		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
17	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
18	D3		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
19	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
20	D3		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
21	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
22	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
23	D2		4'-0"	7'-0"	F2		4/A-600	5/A-600		G1	
24	D2		4'-0"	7'-0"	F2		4/A-600	5/A-600		G1	
30A	D3		3'-0"	7'-0"	F3		4/A-600	5/A-600		G1	
30B	D3		3'-0"	7'-0"	F3		4/A-600	5/A-600		G1	
30C	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
32	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
33A	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
33B	D3		3'-0"	7'-0"	F3		4/A-600	5/A-600		G1	
33D	D4		6'-0"	7'-0"	F3		4/A-600	5/A-600		G1	
33E	D4		6'-0"	7'-0"	F3		4/A-600	5/A-600		G1	
33N	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
33R	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
33V	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
33Z	D5		3'-0"	7'-0"	F3		4/A-600	5/A-600		G1	
34	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
35A	D4		5'-0"	7'-0"	F3		4/A-600	5/A-600		G1	
35B	D4		5'-0"	7'-0"	F3		4/A-600	5/A-600		G1	
36	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
37	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
38A	D3		3'-0"	7'-0"	F3		4/A-600	5/A-600		G1	
38B	D3		3'-0"	7'-0"	F3		4/A-600	5/A-600		G1	
39A	D3		3'-0"	7'-0"	F3		4/A-600	5/A-600		G1	
39B	D1		4'-0"	7'-0"	F1		7/A-600	6/A-600		G1	
40A	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
40B	D1		3'-0"	7'-0"	F2		4/A-600	5/A-600		G1	
41	D1		3'-0"	7'-0"	F2		4/A-600	5/A-600		G1	
42	D1		3'-0"	7'-0"	F2		4/A-600	5/A-600		G1	
43B	D1		3'-0"	7'-0"	F2		4/A-600	5/A-600		G1	
43C	D1		4'-0"	7'-0"	F1		4/A-600	5/A-600		G1	ROOF ACCESS
44B	D1		3'-0"	7'-0"	F2		4/A-600	5/A-600		G1	
45B	D1		3'-0"	7'-0"	F2		4/A-600	5/A-600		G1	
46B	D1		4'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
47	D1		4'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
48	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
49	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
50	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
51	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
52	D4		6'-0"	7'-0"	F3		4/A-600	5/A-600		G1	
53	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	
54A	D3		3'-0"	7'-0"	F3		4/A-600	5/A-600		G1	
54B	D3		3'-0"	7'-0"	F3		4/A-600	5/A-600		G1	
319	D3		3'-0"	7'-0"	F3		7/A-600	6/A-600		G1	
324	D3		3'-0"	7'-0"	F3		4/A-600	5/A-600		G1	
325	D1		3'-0"	7'-0"	F1		4/A-600	5/A-600		G1	



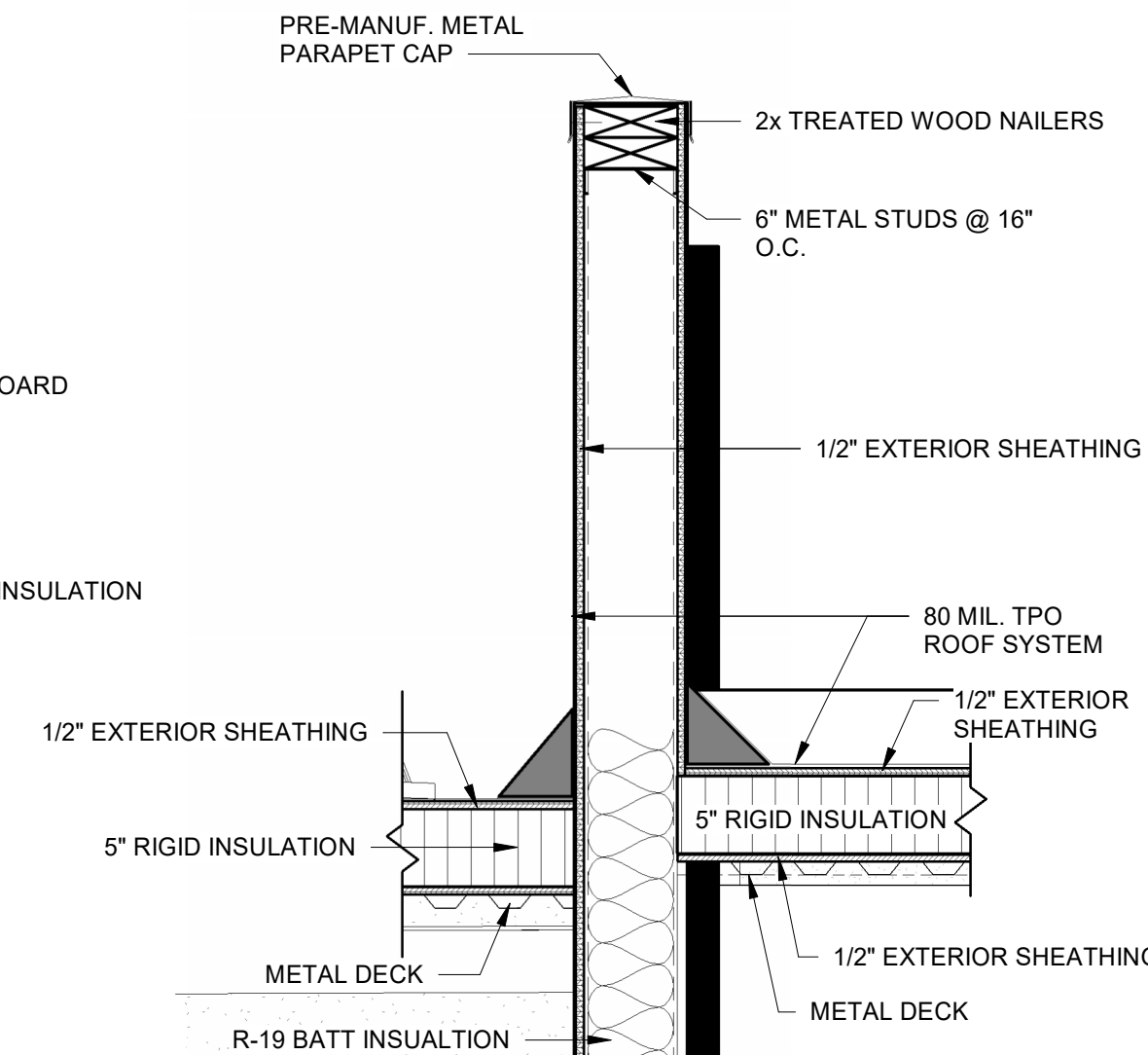
**1** DETAIL  
SCALE: 1" = 1'-0"



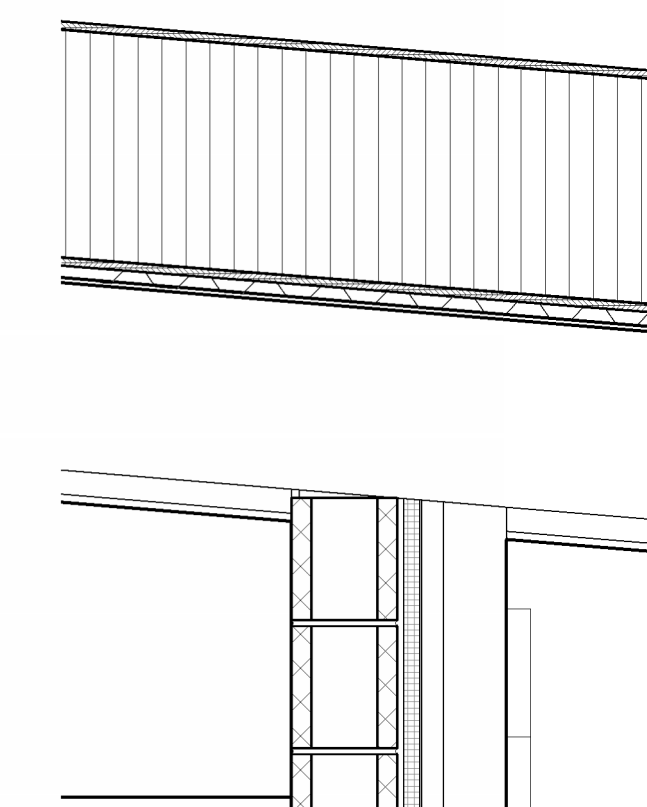
**2** DETAIL  
SCALE: 1" = 1'-0"



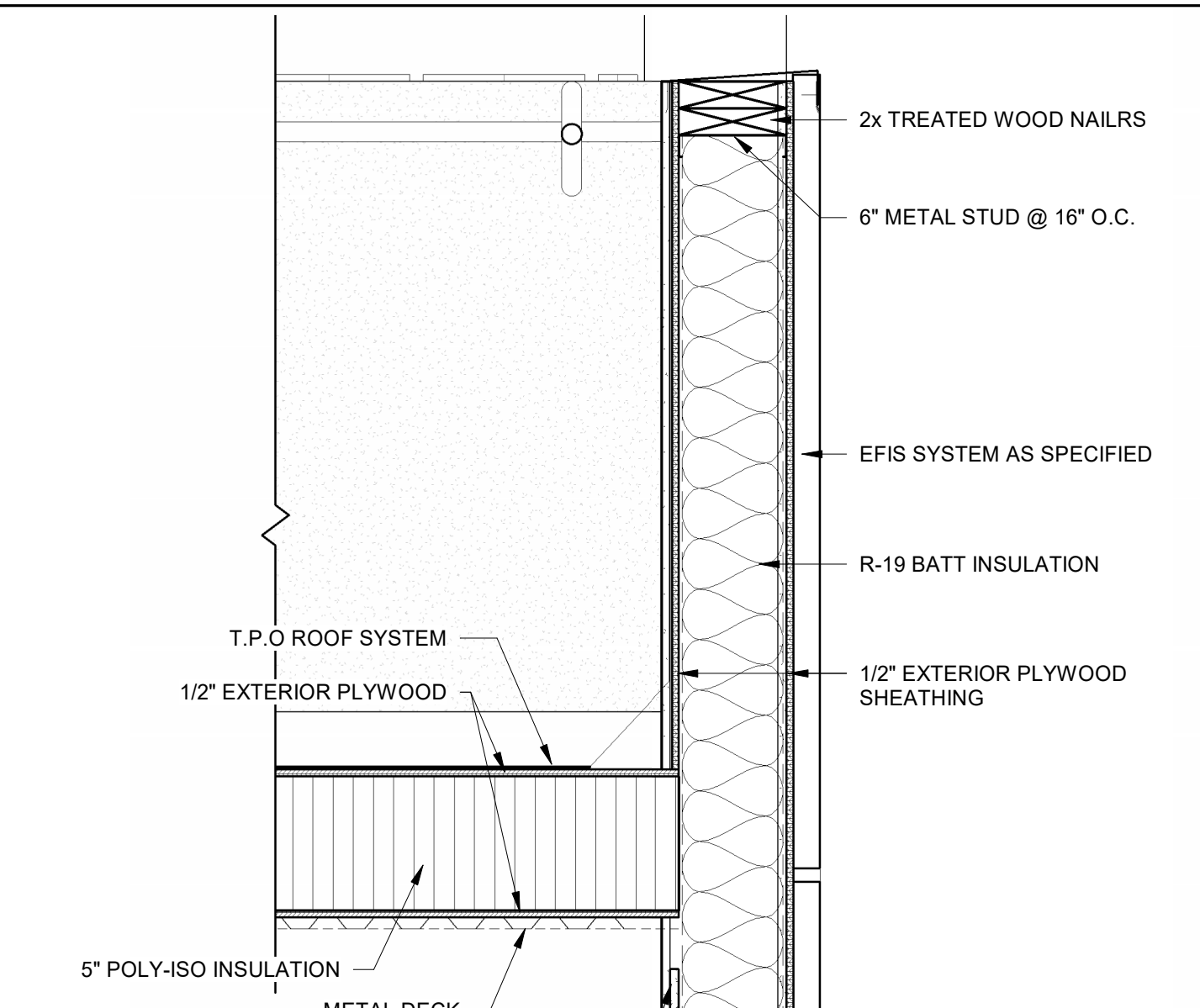
**3** DETAIL  
SCALE: 1" = 1'-0"



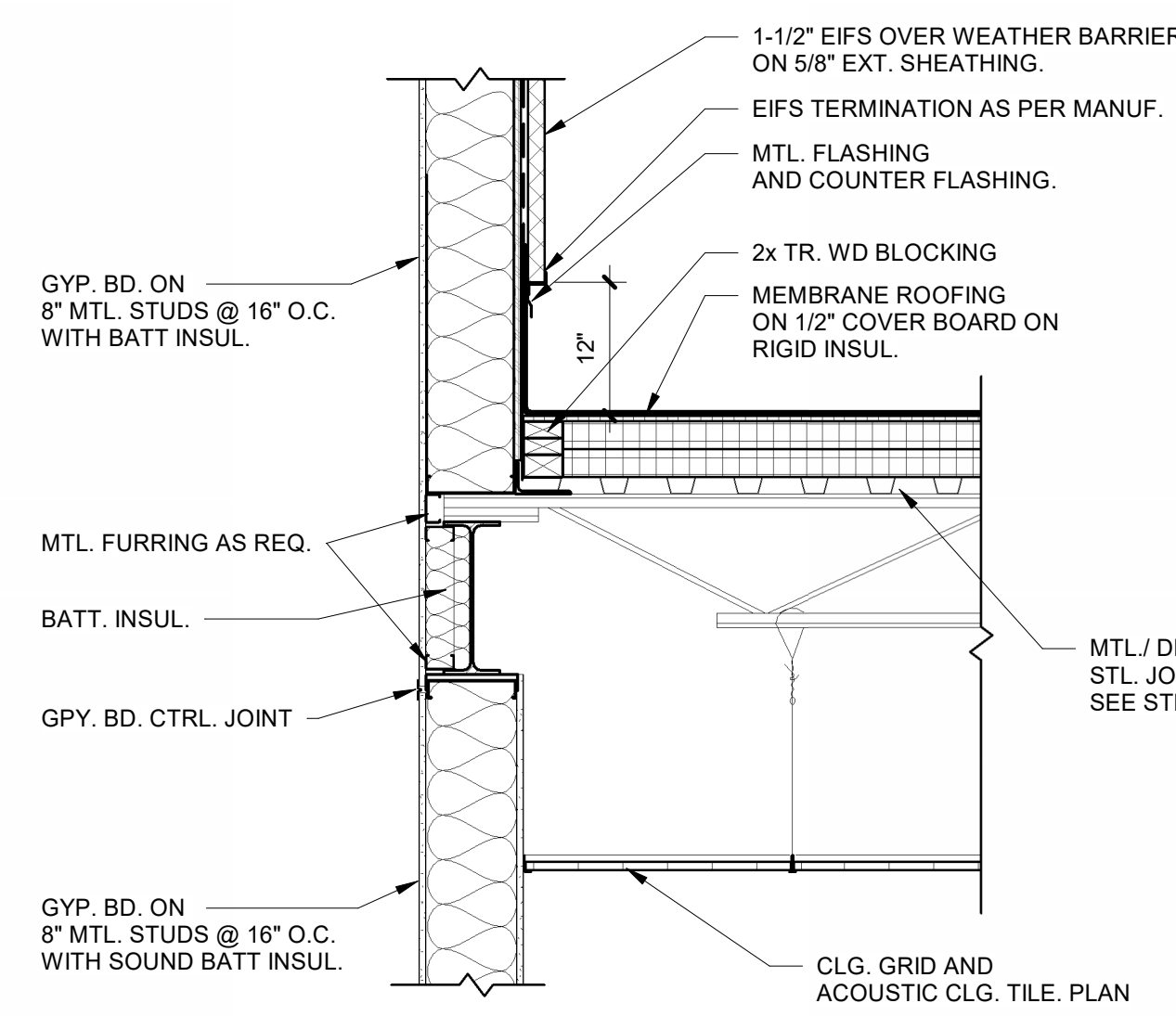
**4** DETAIL  
SCALE: 1" = 1'-0"



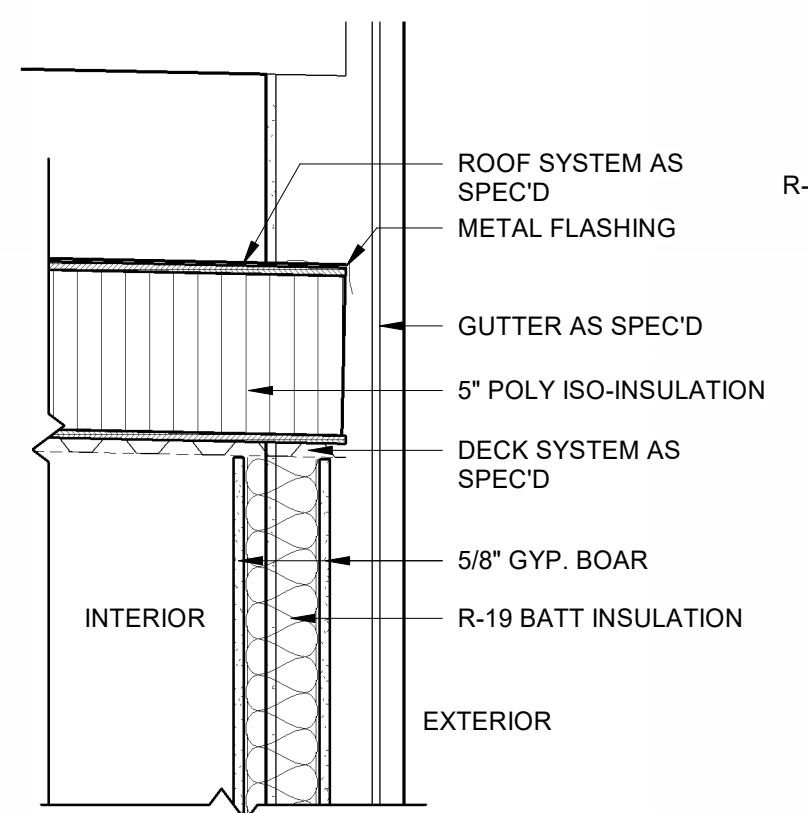
**5** DETAIL  
SCALE: 1" = 1'-0"



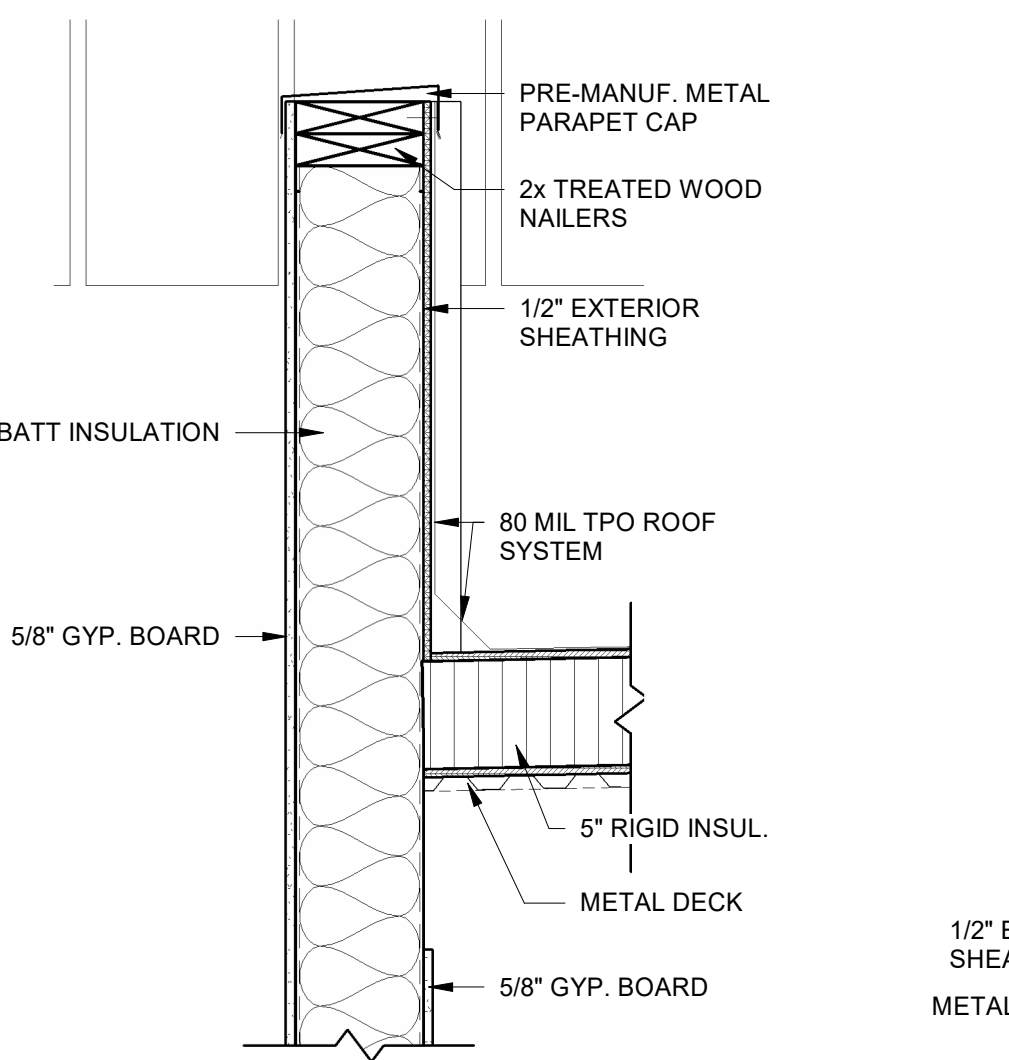
**6** DETAIL  
SCALE: 1" = 1'-0"



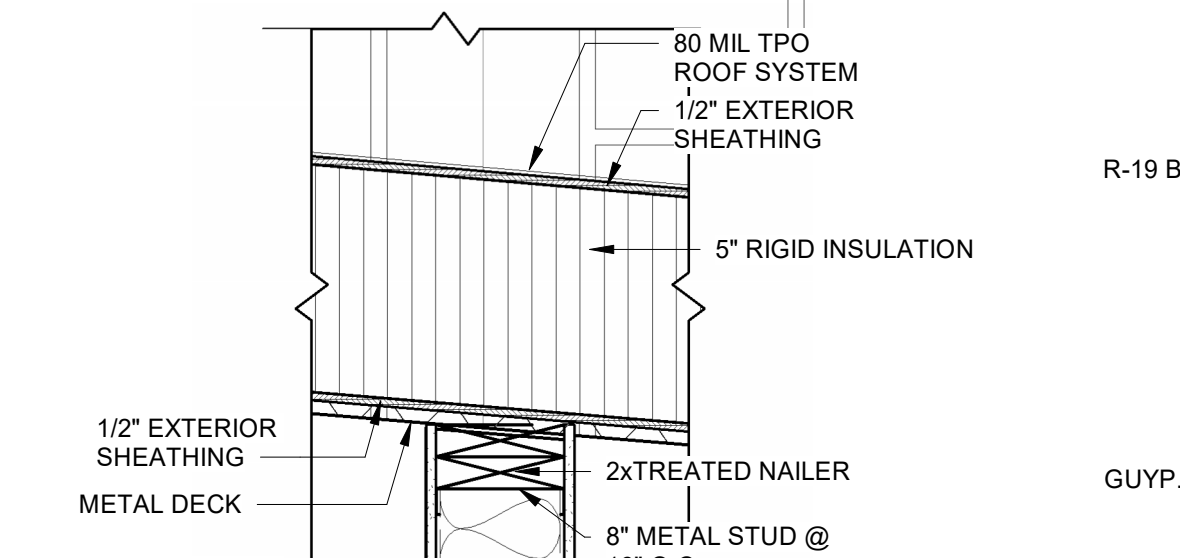
**7** DETAIL  
SCALE: 3/4" = 1'-0"



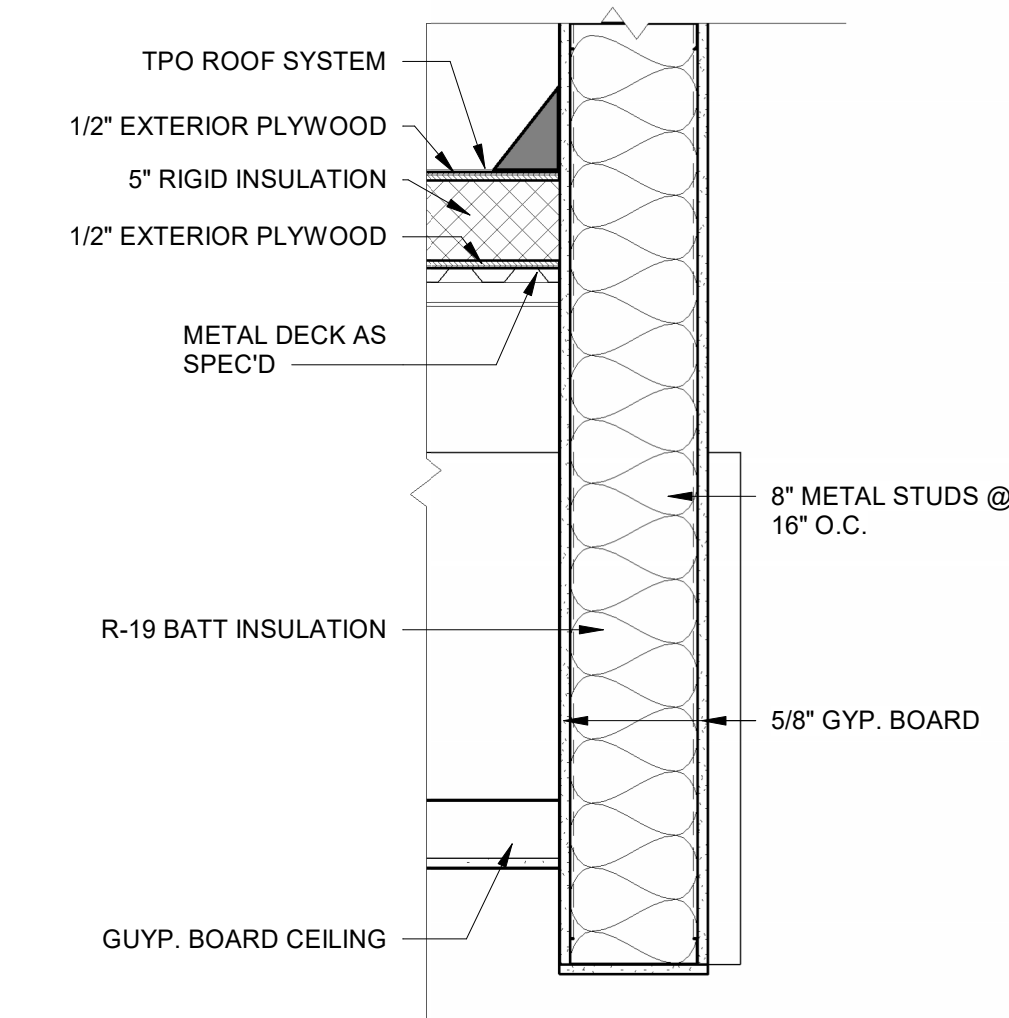
**8** DETAIL  
SCALE: 1" = 1'-0"



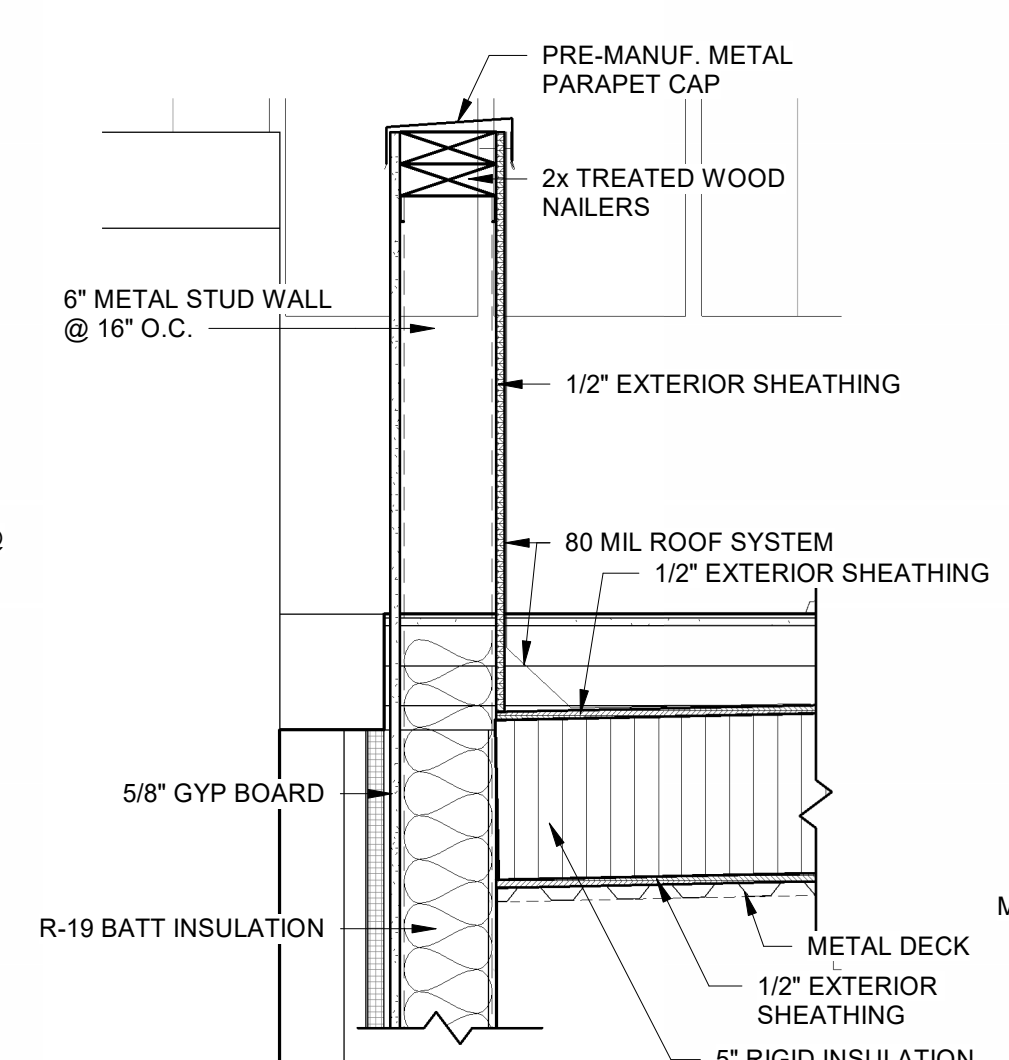
**9** DETAIL  
SCALE: 1" = 1'-0"



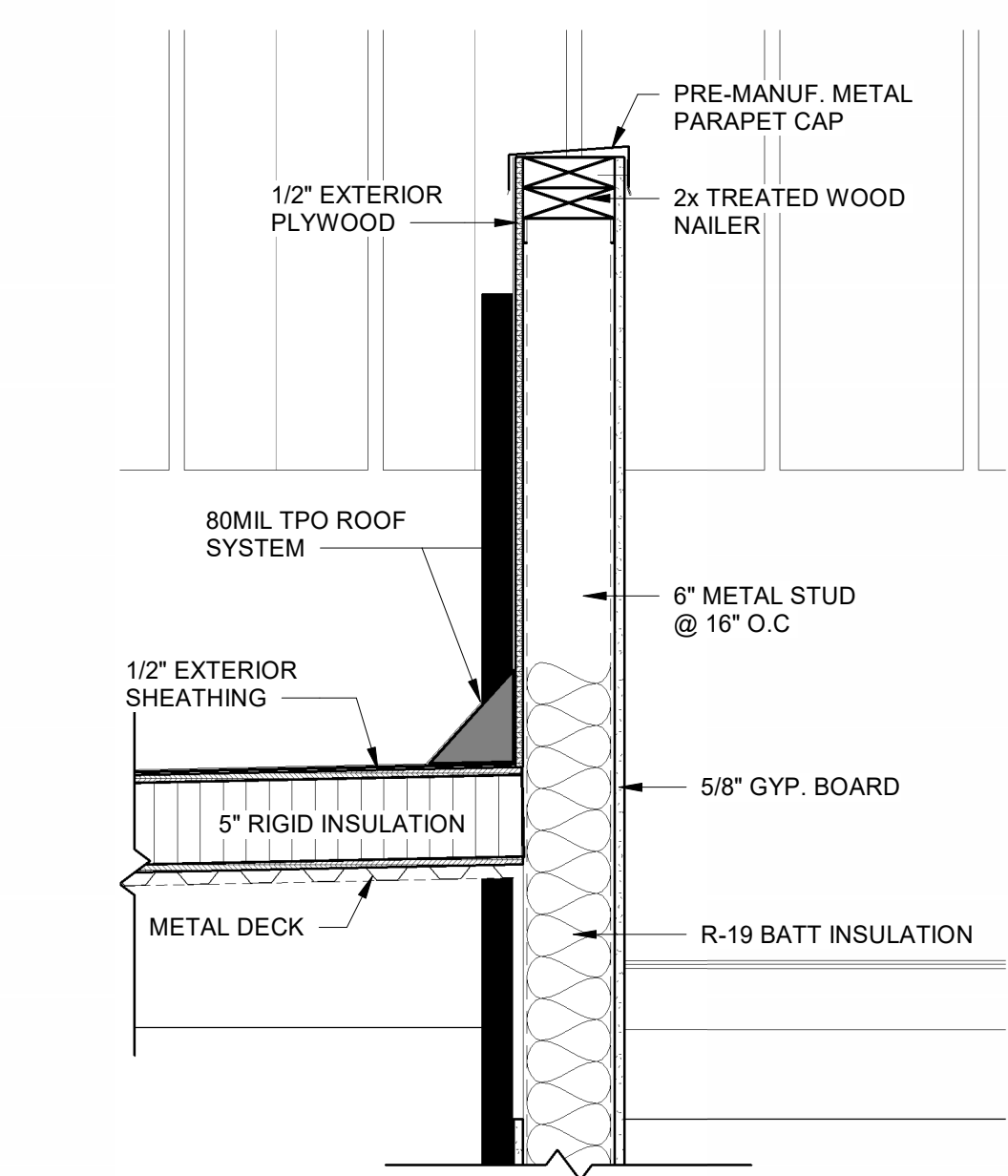
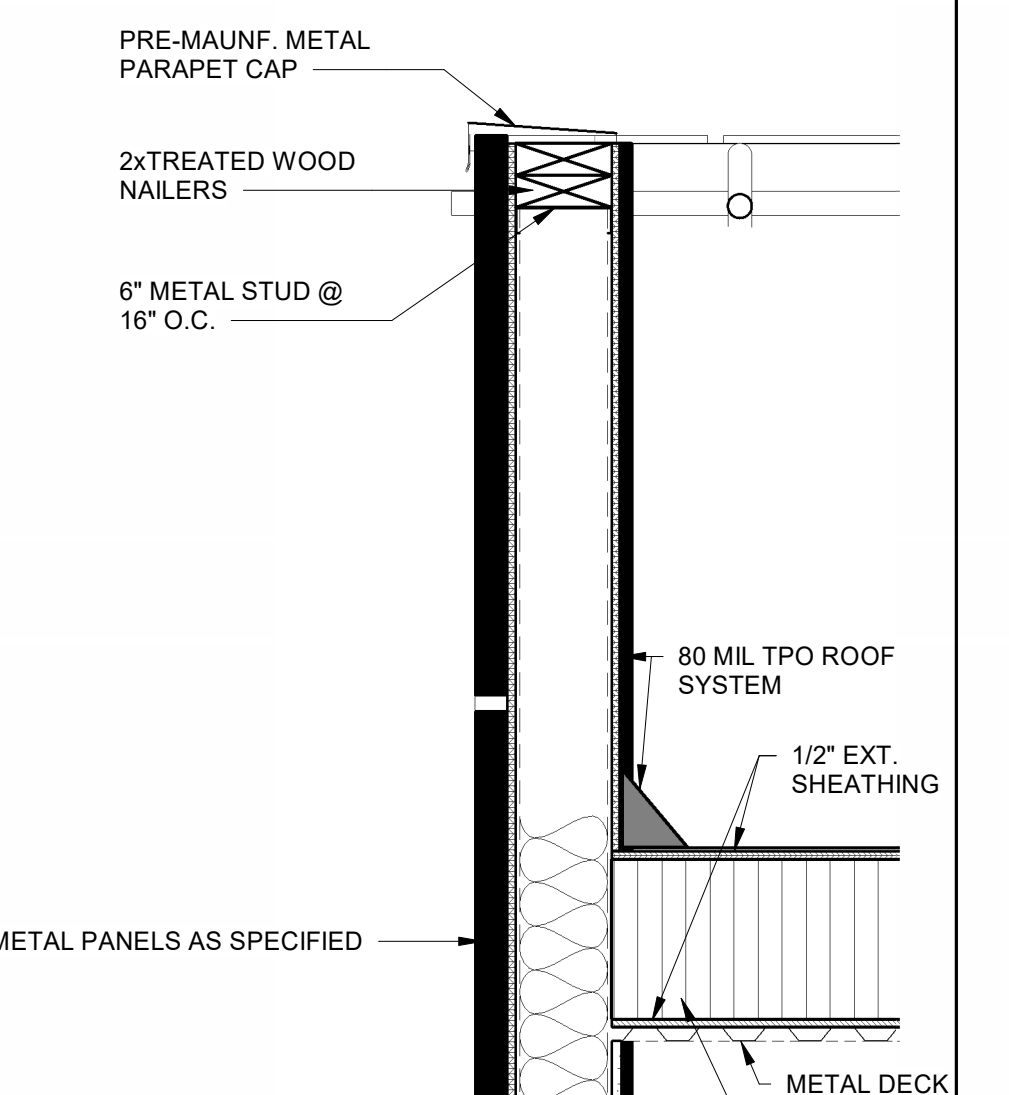
**10** DETAIL  
SCALE: 1" = 1'-0"



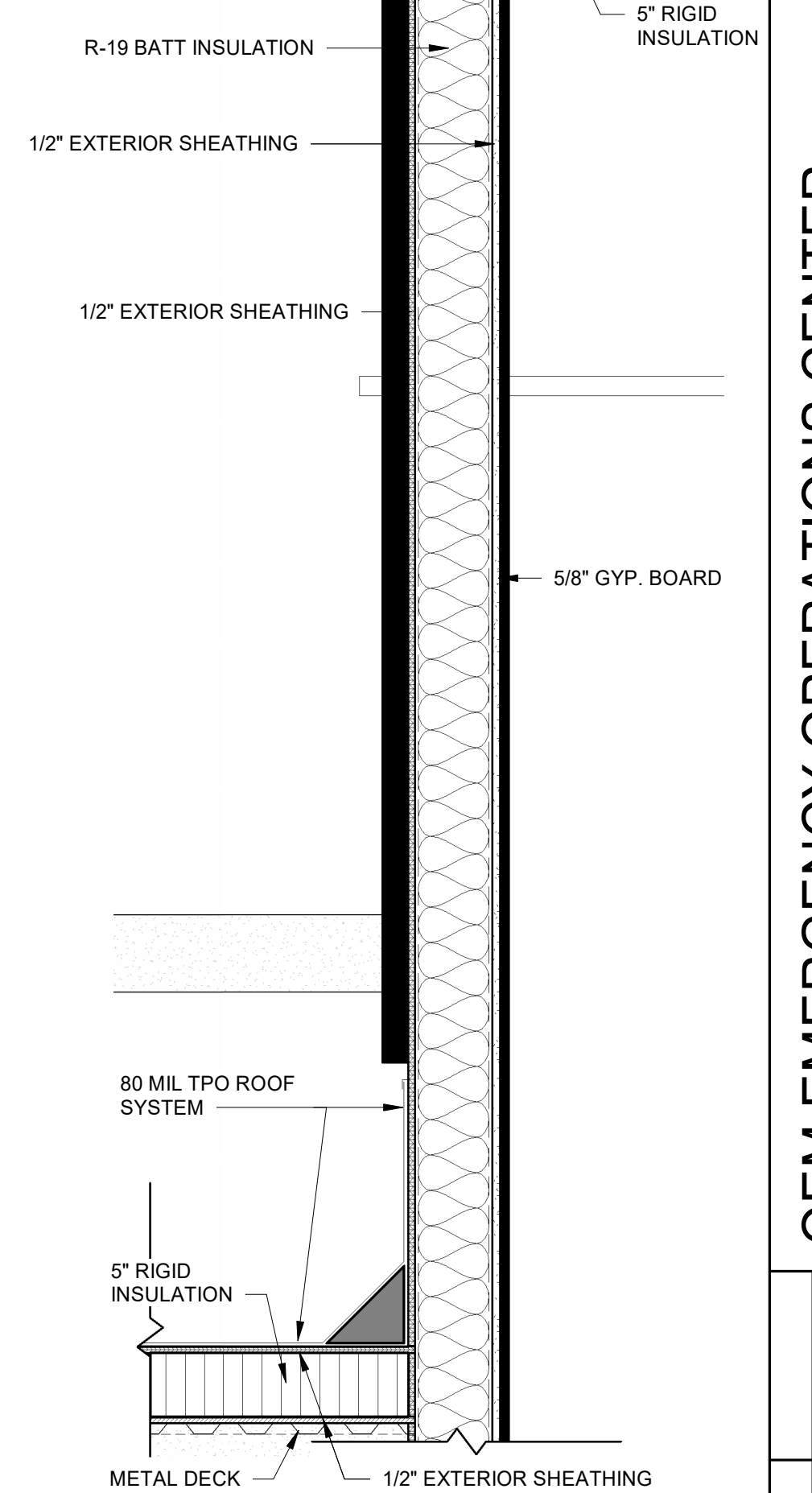
**11** DETAIL  
SCALE: 1" = 1'-0"



**12** DETAIL  
SCALE: 1" = 1'-0"



**13** DETAIL  
SCALE: 1" = 1'-0"



**14** DETAIL  
SCALE: 1" = 1'-0"



**OEM EMERGENCY OPERATIONS CENTER**  
TORTUGAS TRAILS, LAS CRUCES, NM  
FOR: DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION
1	1/11/2025	ISSUE

PROJECT NO.: 22115L  
FILE NAME:  
DRAWN BY: Author  
CHECKED BY: Checker  
SHEET TITLE:

ROOF DETAILS  
SHEET NO.: A-701

C:\Users\alvarez\Documents\22115L\_OEM\_CD\_BLDG\_MODEL\_manny\alvarez2413.rvt 1/13/2025 2:46:16 PM





600  
5/8IN REBAR  
N=466972.67  
E=1491533.09  
EL=4053.35

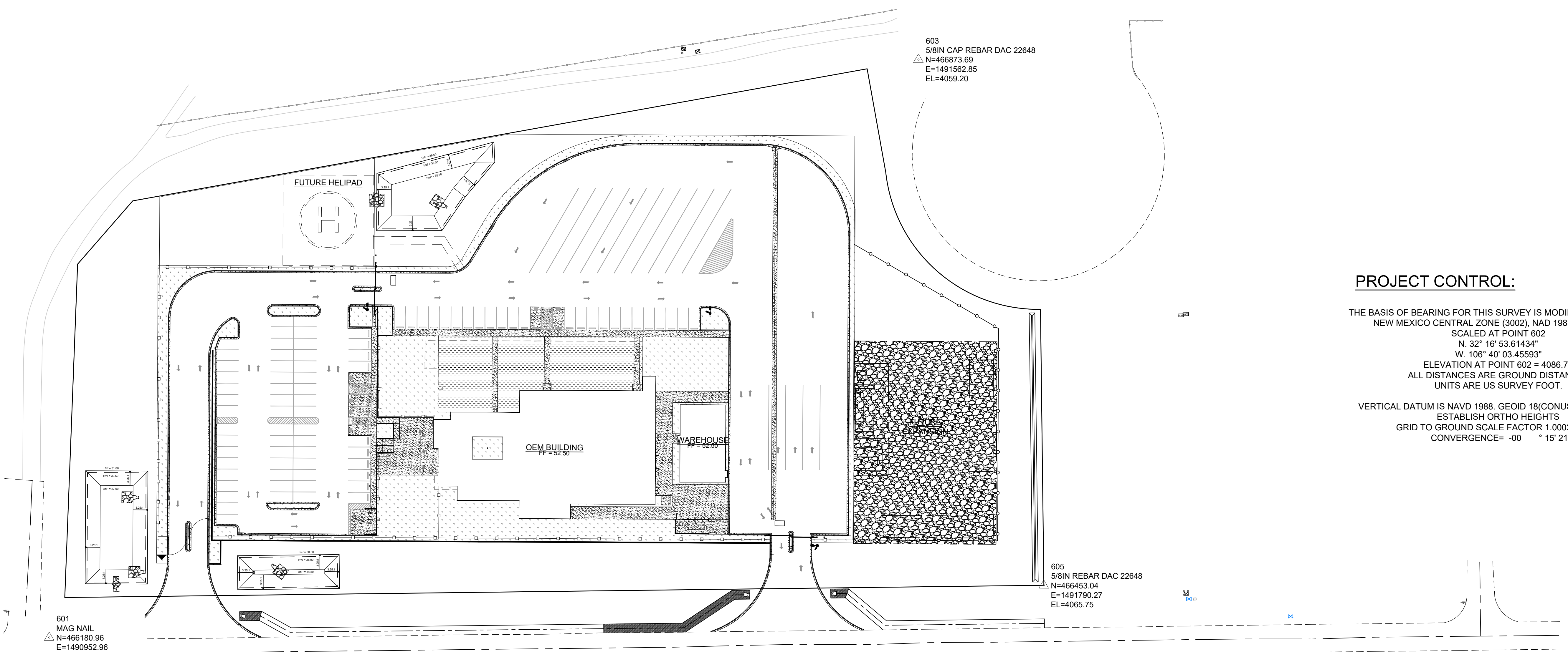
603  
5/8IN CAP REBAR DAC 22648  
N=466873.69  
E=1491562.85  
EL=4059.20

605  
5/8IN REBAR DAC 22648  
N=466453.04  
E=1491790.27  
EL=4065.75

602  
1/2IN REBAR  
N=466490.84  
E=1492293.87  
EL=4086.73

601  
MAG NAIL  
N=466180.96  
E=1490952.96  
EL=4024.24

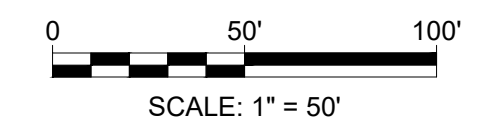
604  
CP 5/8IN REBAR SMA CAP  
N=466137.77  
E=1490944.81  
EL=4023.97



**PROJECT CONTROL:**

THE BASIS OF BEARING FOR THIS SURVEY IS MODIFIED STATE PLANE  
NEW MEXICO CENTRAL ZONE (3002), NAD 1983, NAVD 1988  
SCALED AT POINT 602  
N. 32° 16' 53.61434"  
W. 106° 40' 03.45593"  
ELEVATION AT POINT 602 = 4086.73  
ALL DISTANCES ARE GROUND DISTANCES  
UNITS ARE US SURVEY FOOT.

VERTICAL DATUM IS NAVD 1988. GEOID 18(CONUS) WAS USED TO  
ESTABLISH ORTHO HEIGHTS  
GRID TO GROUND SCALE FACTOR 1.0002667283  
CONVERGENCE= -00 ° 15' 21.57"



**SURVEY CONTROL SHEET**

POINT #	NORTHING	EASTING	ELE	DESCRIPTION
600	466972.67	1491533.09	4053.35	5/8IN REBAR
601	466180.96	1490952.96	4024.24	MAG NAIL
602	466490.84	1492293.87	4086.73	1/2IN REBAR
603	466873.69	1491562.85	4059.2	5/8IN CAP REBAR DAC 22648
604	466137.77	1490944.81	4023.97	CP 5/8IN REBAR SMA CAP
605	466453.04	1491790.27	4065.75	5/8IN REBAR DAC 22648
606	465762.73	1490626.49	4023.57	1IN REBAR

**SURVEYOR'S STATEMENT:**

I, DARRYL D. COSTER, BEING A DULY REGISTERED PROFESSIONAL SURVEYOR IN THE STATE OF NEW MEXICO, HEREBY STATE THAT THE CONTROL AS SHOWN HEREON, WAS ESTABLISHED BY ME OR UNDER MY DIRECT SUPERVISION AND CHECKING AND THEY ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

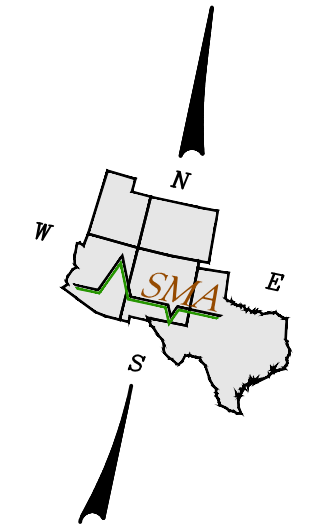
*Darryl D. Coster*

DARRYL COSTER, PS #21204

12-16-2024

DATE

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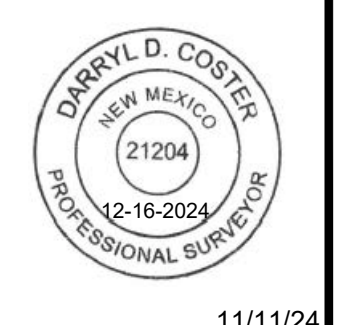


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Rev #	Date	Description	By	Chkd
A	11/18/24	INITIAL SUBMITTAL	DIF	MJ
B	12/19/24	90% SUBMITTAL	DIF	MJ

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DOÑA ANA COUNTY OEM EMERGENCY OPERATIONS CENTER  
TORTUGAS TRAIL - LAS CRUCES, NM  
SURVEY CONTROL PLAN



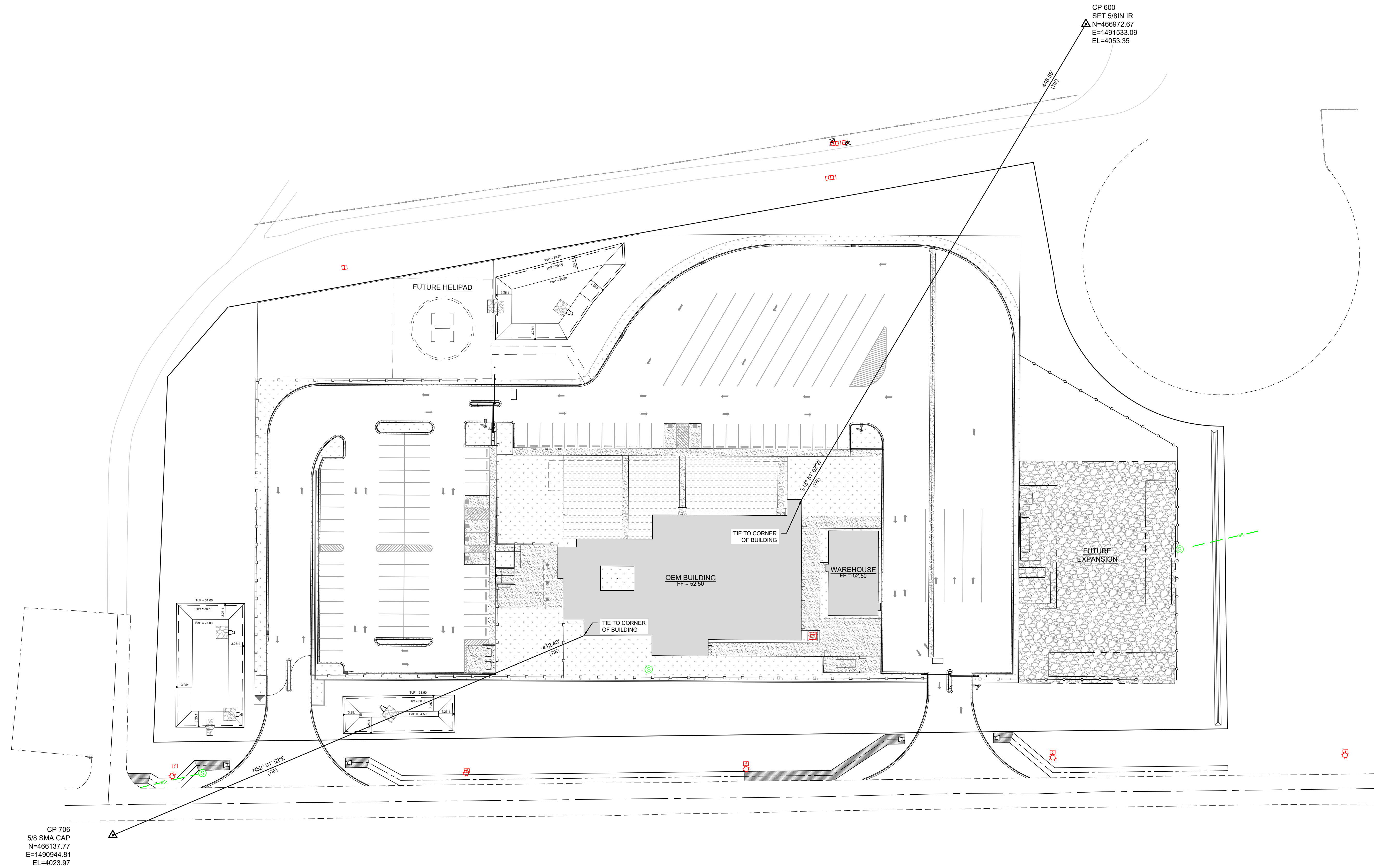
11/11/24

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Designed	Drawn	Checked
MJ	DIF	MJ

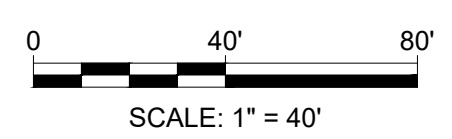
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Scale: Horiz: AS SHOWN  
Vert: AS SHOWN  
Project No: 9331490  
Sheet: C200





CP 706  
5/8 SMA CAP  
N=466137.77  
E=1490944.81  
EL=4023.97

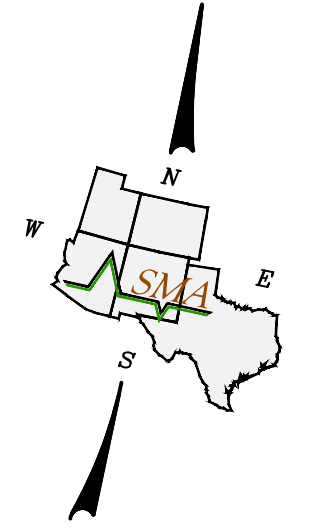
CP 600  
SET 5/8IN IR  
N=466972.67  
E=1491533.09  
EL=4053.35



**HORIZONTAL & VERTICAL CONTROL PLAN**

SCALE: 1" = 40'

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TORTUGAS TRAIL - LAS CRUCES, NM  
**HORIZONTAL & VERTICAL CONTROL PLAN**

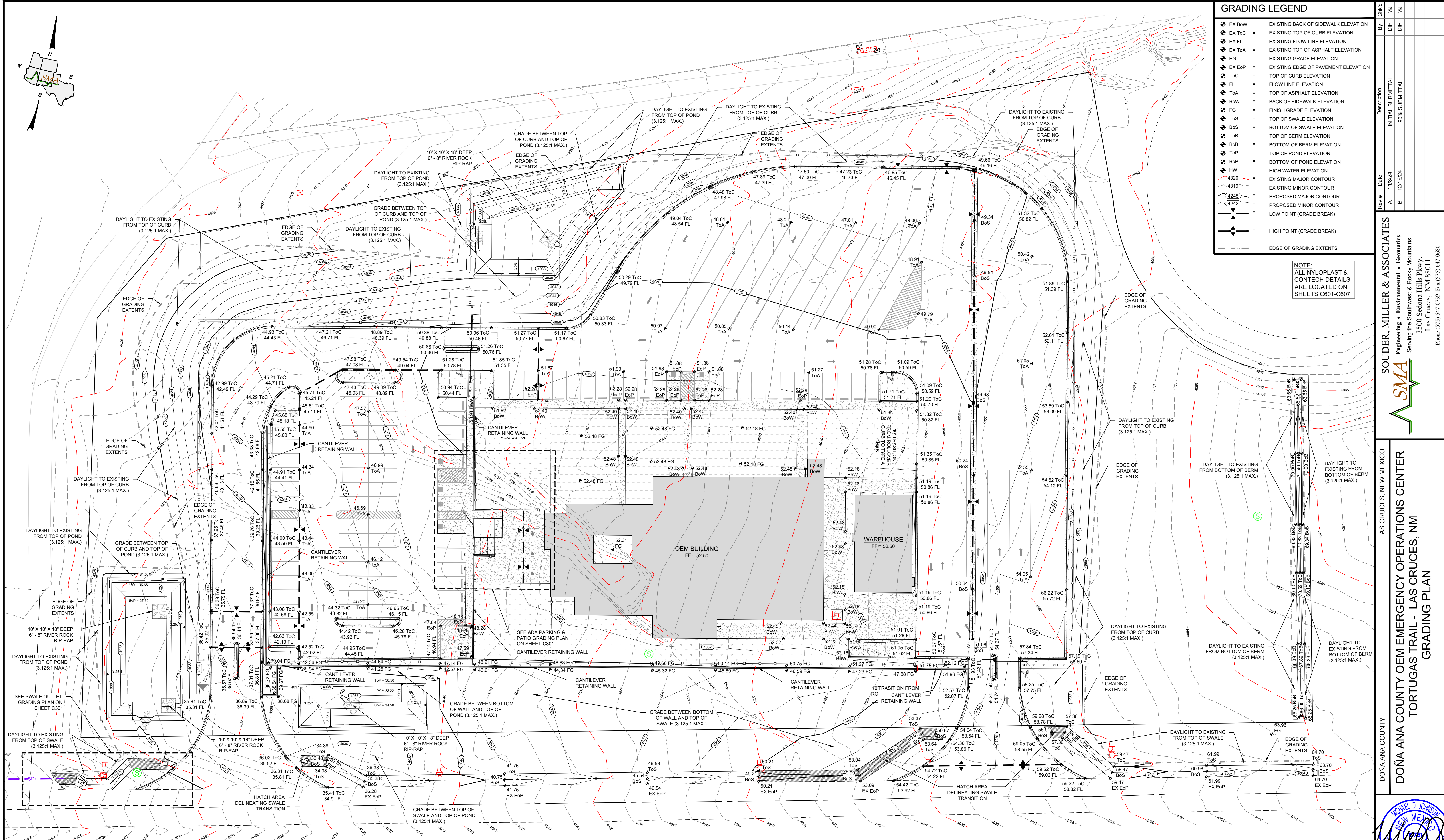


12/16/24

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Designed	Drawn	Checked
MJ	DIF	MJ

Date: December 2024  
Scale: Horiz: AS SHOWN  
Vert: AS SHOWN  
Project No: 9331490  
Sheet: C201



GRADING LEGEND	
EX BoW	EXISTING BACK OF SIDEWALK ELEVATION
EX ToC	EXISTING TOP OF CURB ELEVATION
EX FL	EXISTING FLOW LINE ELEVATION
EX ToA	EXISTING TOP OF ASPHALT ELEVATION
EG	EXISTING GRADE ELEVATION
EX EoP	EXISTING EDGE OF PAVEMENT ELEVATION
ToC	TOP OF CURB ELEVATION
FL	FLOW LINE ELEVATION
ToA	TOP OF ASPHALT ELEVATION
BoW	BACK OF SIDEWALK ELEVATION
FG	FINISH GRADE ELEVATION
ToS	TOP OF SWALE ELEVATION
BoS	BOTTOM OF SWALE ELEVATION
ToB	TOP OF BERM ELEVATION
BoB	BOTTOM OF BERM ELEVATION
ToP	TOP OF POND ELEVATION
BoP	BOTTOM OF POND ELEVATION
HW	HIGH WATER ELEVATION
4320	EXISTING MAJOR CONTOUR
4319	EXISTING MINOR CONTOUR
4245	PROPOSED MAJOR CONTOUR
4242	PROPOSED MINOR CONTOUR
▲	LOW POINT (GRADE BREAK)
◆	HIGH POINT (GRADE BREAK)
- - -	EDGE OF GRADING EXTENTS

NOTE:  
ALL NYLOPLAST & CONTECH DETAILS  
ARE LOCATED ON  
SHEETS C601-C607

By	CHKD
INITIAL SUBMITTAL	DIF
90% SUBMITTAL	DIF

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TORTUGAS TRAIL - LAS CRUCES, NM  
GRADING PLAN

MICHAEL D. JOHNSON  
NEW MEXICO  
REGISTERED PROFESSIONAL ENGINEER

GRADING PLAN  
SCALE: 1" = 30'

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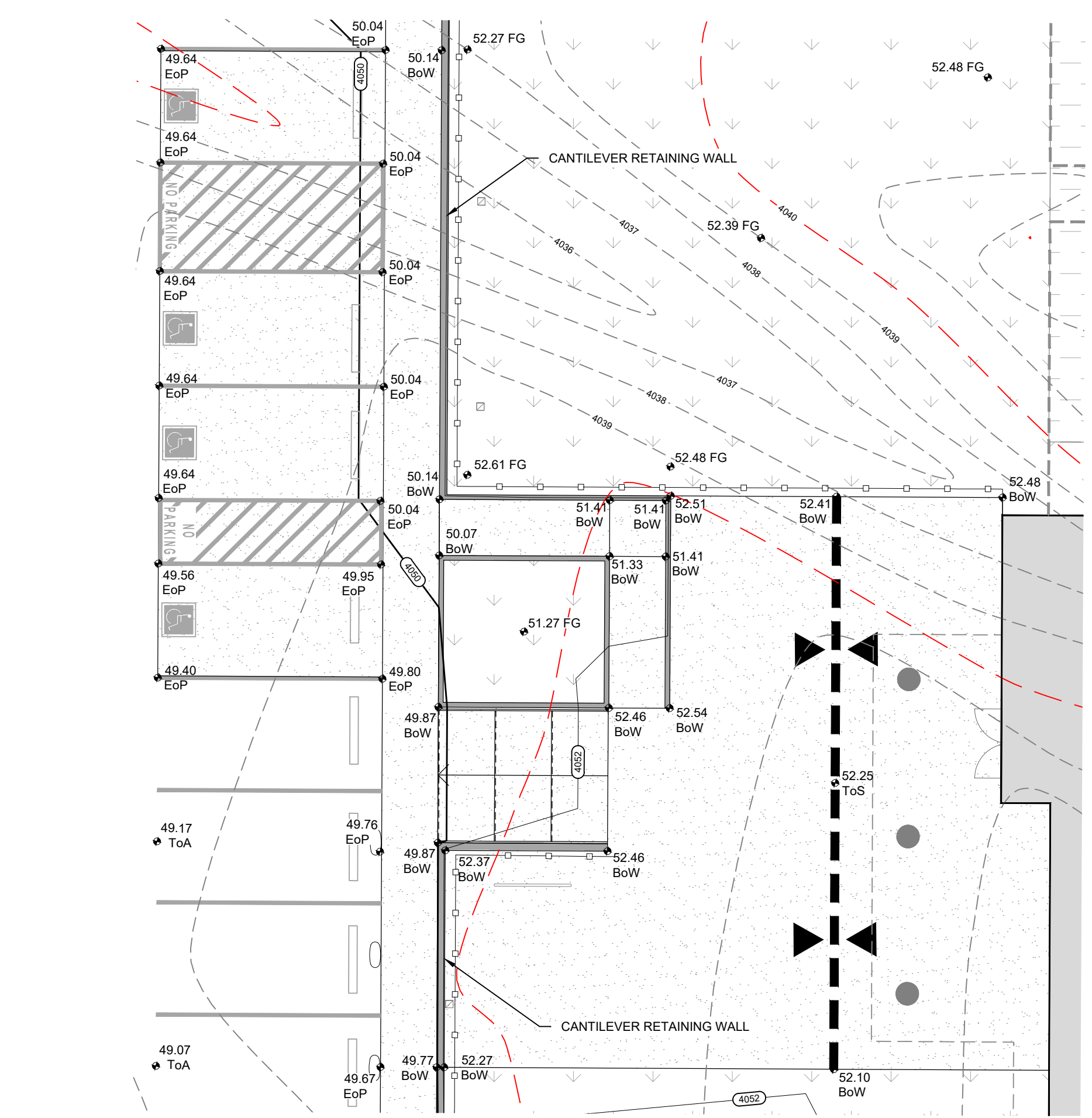
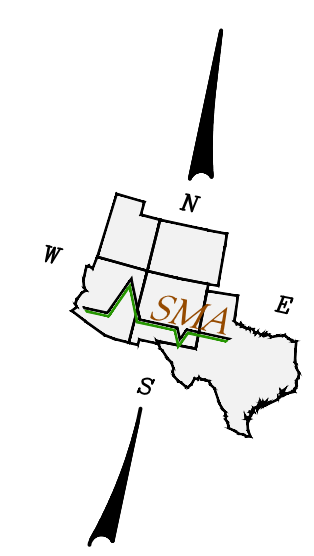
Designed	Drawn	Checked
MJ	DIF	MJ
Date:	December 2024	
Scale:	Horiz: AS SHOWN	
Project No:	9331490	
Sheet:	C300	

GRADING LEGEND		By	CHKD
EX BoW	= EXISTING BACK OF SIDEWALK ELEVATION	DIF	NJ
EX ToC	= EXISTING TOP OF CURB ELEVATION	DIF	NJ
EX FL	= EXISTING FLOW LINE ELEVATION	DIF	NJ
EX ToA	= EXISTING TOP OF ASPHALT ELEVATION	DIF	NJ
EG	= EXISTING GRADE ELEVATION		
EX EoP	= EXISTING EDGE OF PAVEMENT ELEVATION		
ToC	= TOP OF CURB ELEVATION		
FL	= FLOW LINE ELEVATION		
ToA	= TOP OF ASPHALT ELEVATION		
BoW	= BACK OF SIDEWALK ELEVATION		
FG	= FINISH GRADE ELEVATION		
ToS	= TOP OF SWALE ELEVATION		
BoS	= BOTTOM OF SWALE ELEVATION		
ToB	= TOP OF BERM ELEVATION		
BoB	= BOTTOM OF BERM ELEVATION		
ToP	= TOP OF POND ELEVATION		
BoP	= BOTTOM OF POND ELEVATION		
HW	= HIGH WATER ELEVATION		
4320	= EXISTING MAJOR CONTOUR		
4319	= EXISTING MINOR CONTOUR		
4245	= PROPOSED MAJOR CONTOUR		
4242	= PROPOSED MINOR CONTOUR		
▲	= LOW POINT (GRADE BREAK)		
◆	= HIGH POINT (GRADE BREAK)		
---	= EDGE OF GRADING EXTENTS		

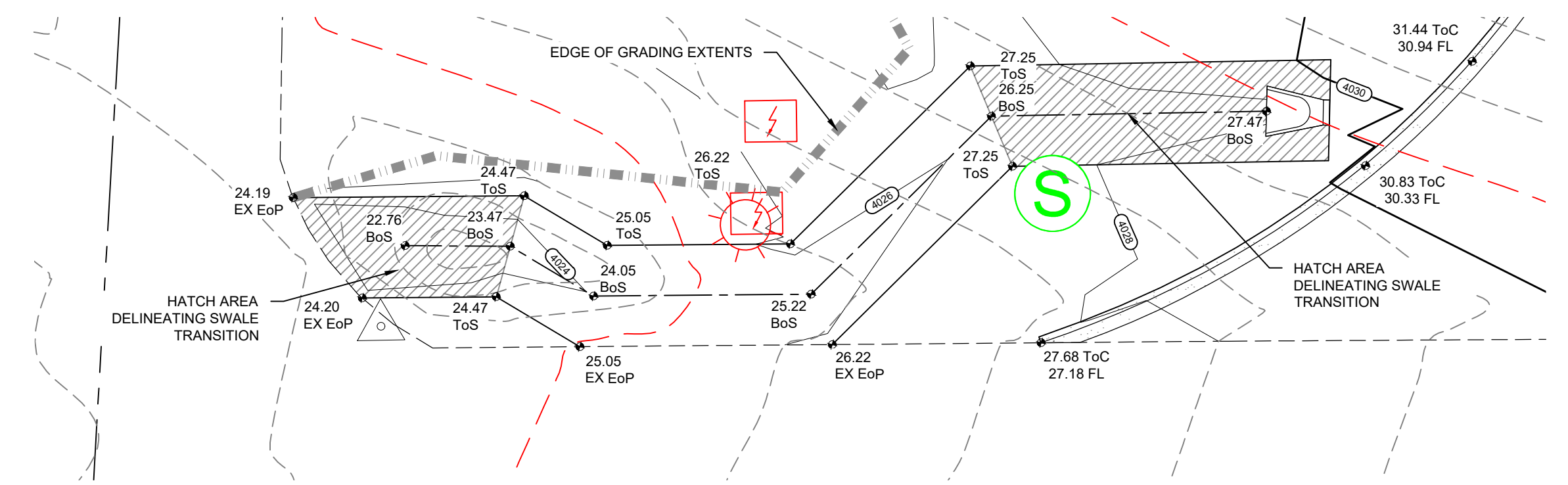
Rev #	Date	Description
A	11/16/24	INITIAL SUBMITTAL
B	12/16/24	90% SUBMITTAL

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NOTE:  
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 ARE LOCATED ON  
 SHEETS C601-C607



**ADA APRKING & PATIO GRADING PLAN**  
 SCALE: 1" = 10'



**SWALE OUTLET GRADING PLAN**  
 SCALE: 1" = 10'

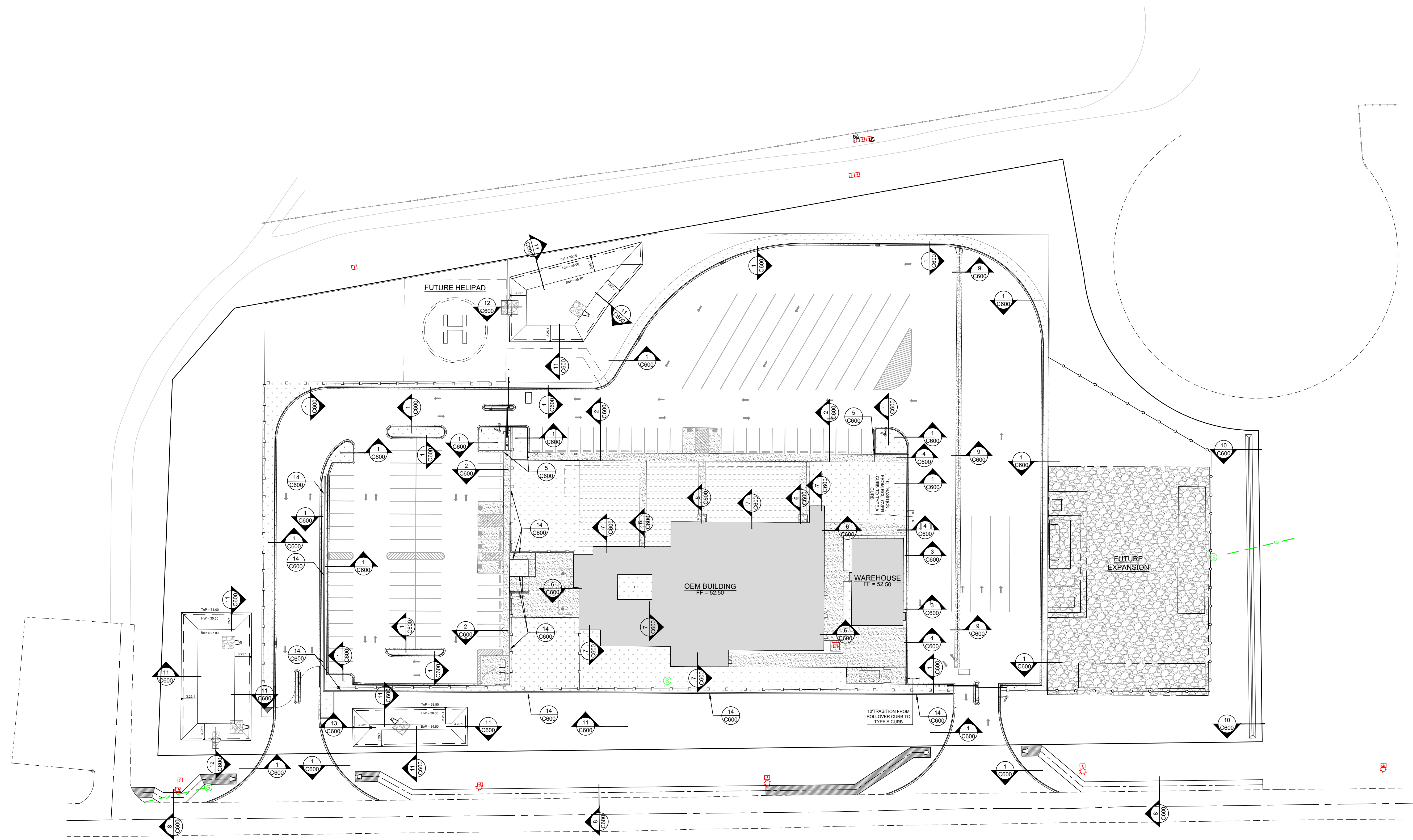
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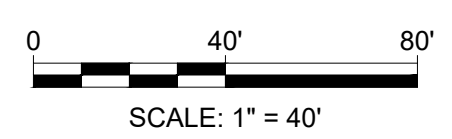
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Designed	Drawn	Checked
MJ	DIF	MJ
Date:	December 2024	
Scale:	Horiz: AS SHOWN	
Project No:	9331490	
Sheet:	C301	



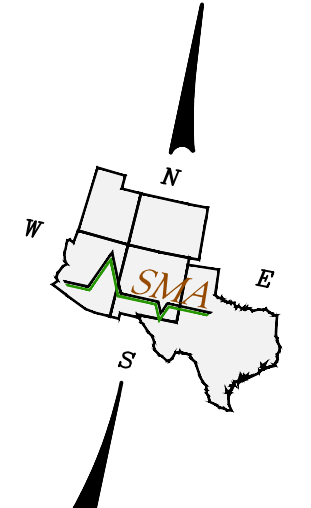
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DETAIL CALLOUT PLAN  
SCALE: 1" = 40'



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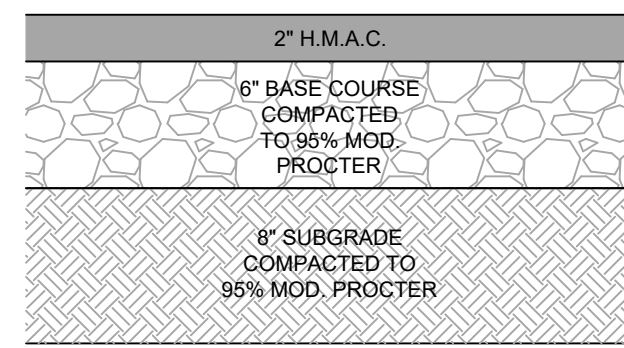
Rev #	Date	Description	By	CHKD
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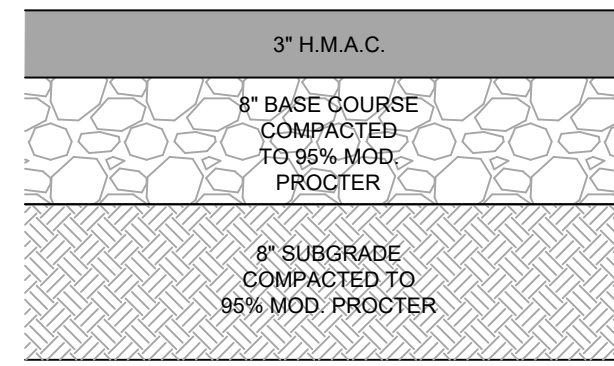
DOÑA ANA COUNTY  
 LAS CRUCES, NEW MEXICO  
**DOÑA ANA COUNTY OEM EMERGENCY OPERATIONS CENTER**  
**TORTUGAS TRAIL - LAS CRUCES, NM**  
**DETAIL CALLOUT PLAN**



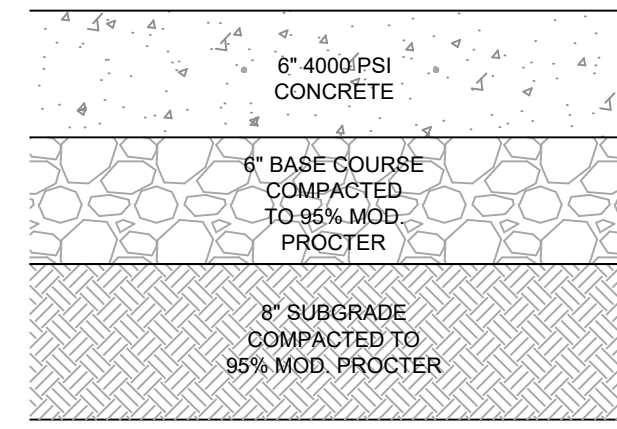
Designed	Drawn	Checked
MJ	DIF	MJ
Date:	December 2024	
Scale:	Horiz: AS SHOWN	
Project No:	9331490	
Sheet:	C302	



**LIGHT DUTY PAVING SECTION**  
NOT TO SCALE



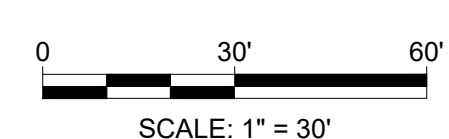
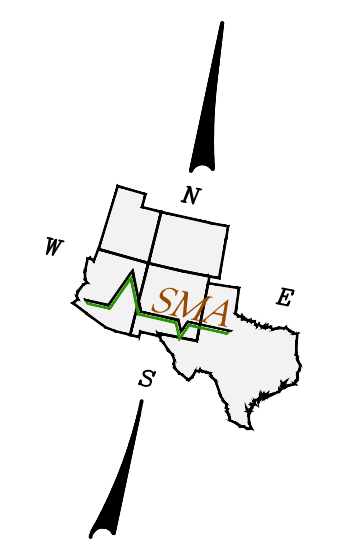
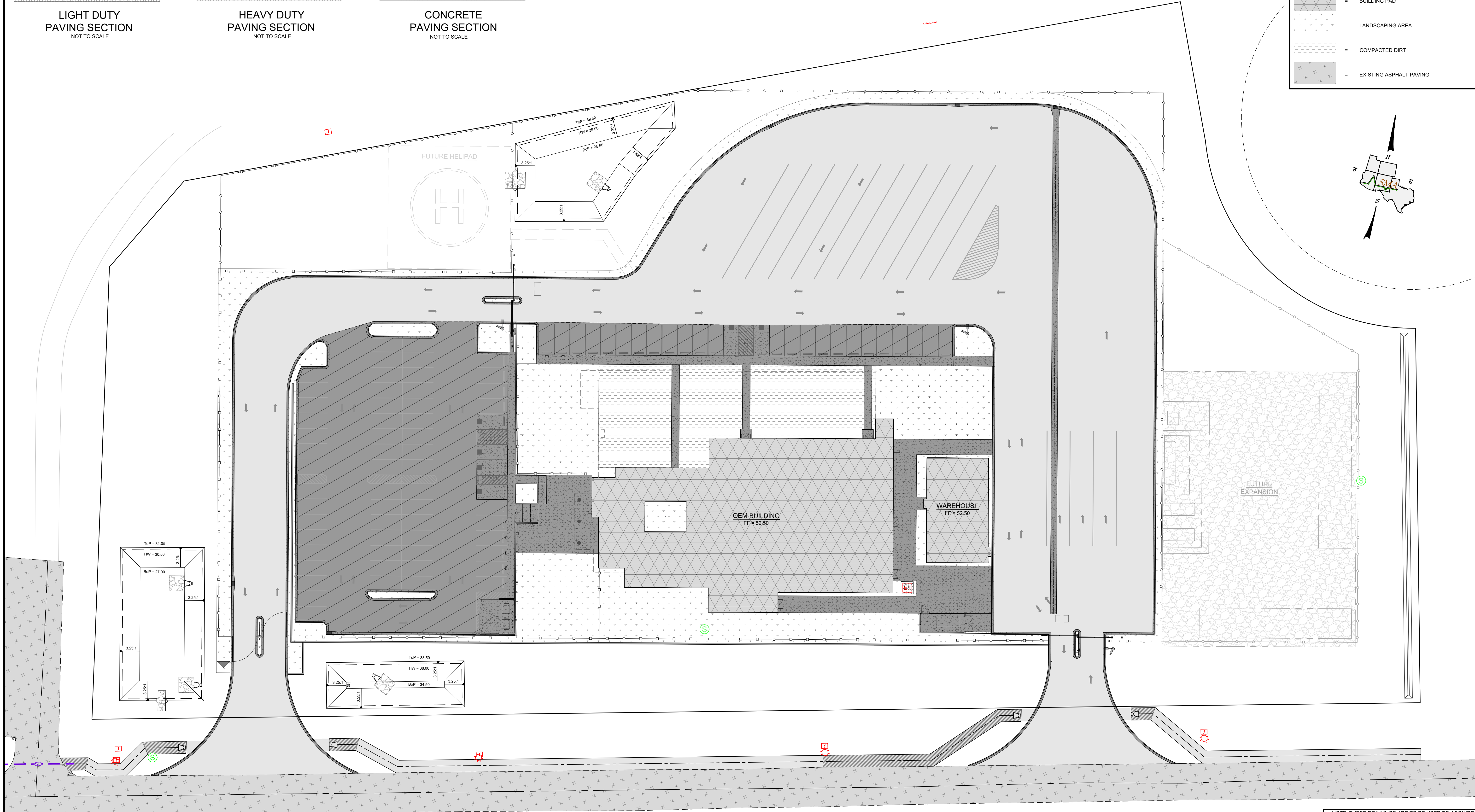
**HEAVY DUTY PAVING SECTION**  
NOT TO SCALE



**CONCRETE PAVING SECTION**  
NOT TO SCALE

**PAVING LEGEND**

- = LIGHT DUTY ASPHALT PAVING
- = HEAVY DUTY ASPHALT PAVING
- = CONCRETE PAVING / SIDEWALK
- = BUILDING PAD
- = LANDSCAPING AREA
- = COMPACTED DIRT
- = EXISTING ASPHALT PAVING



**PAVEMENT PLAN**  
SCALE: 1" = 30'

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A	11/16/24	INITIAL SUBMITTAL	DIF	NJ
B	12/16/24	90% SUBMITTAL	DIF	NJ

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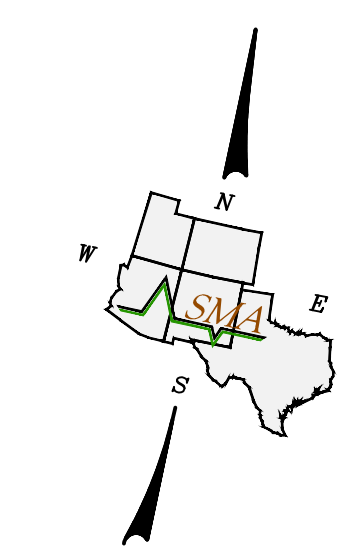
DOÑA ANA COUNTY  
LAS CRUCES, NEW MEXICO  
**DOÑA ANA COUNTY OEM EMERGENCY OPERATIONS CENTER**  
TORTUGAS TRAIL - LAS CRUCES, NM  
**PAVEMENT PLAN**

12/16/24

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Designed	Drawn	Checked
MJ	DIF	MJ

Date: December 2024  
Scale: Horiz: AS SHOWN  
Vert: AS SHOWN  
Project No: 9331490  
Sheet: **C303**



LEGEND	
	EXISTING GAS LINE
	EXISTING 8" WATER LINE
	EXISTING 8" SEWER LINE TO REMAIN
	EXISTING 8" SEWER LINE TO REMOVE
	EXISTING STORM DRAIN LINE / CULVERT
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING WATER VALVE
	EXISTING SEWER MANHOLE TO REMAIN
	EXISTING SEWER MANHOLE TO REMOVE
	EXISTING ELECTRIC BOX
	EXISTING STREET LIGHT POLE
	EXISTING TELEPHONE PEDESTAL
	EXISTING FIBER OPTIC PULL BOX
	PROPOSED 8" SEWER LINE & FLOW
	PROPOSED 4" SEWER LINE & FLOW
	PROPOSED SEWER DOUBLE CLEAN OUT
	PROPOSED SEWER MANHOLE
	PROPOSED 8" WATER LINE
	PROPOSED 2" WATER LINE
	PROPOSED 6" FIRE LINE
	PROPOSED WATER METER & BFP
	PROPOSED PRESSURE REDUCING VALVE
	PROPOSED 24" CORRUGATED METAL PIPE
	PROPOSED 24" N-12 STORM DRAIN PIPE
	PROPOSED 18" N-12 STORM DRAIN PIPE
	PROPOSED 6" N-12 STORM DRAIN PIPE
	PROPOSED ELECTRICAL TRANSFORMER
	PROPOSED PARKING LOT LIGHTS

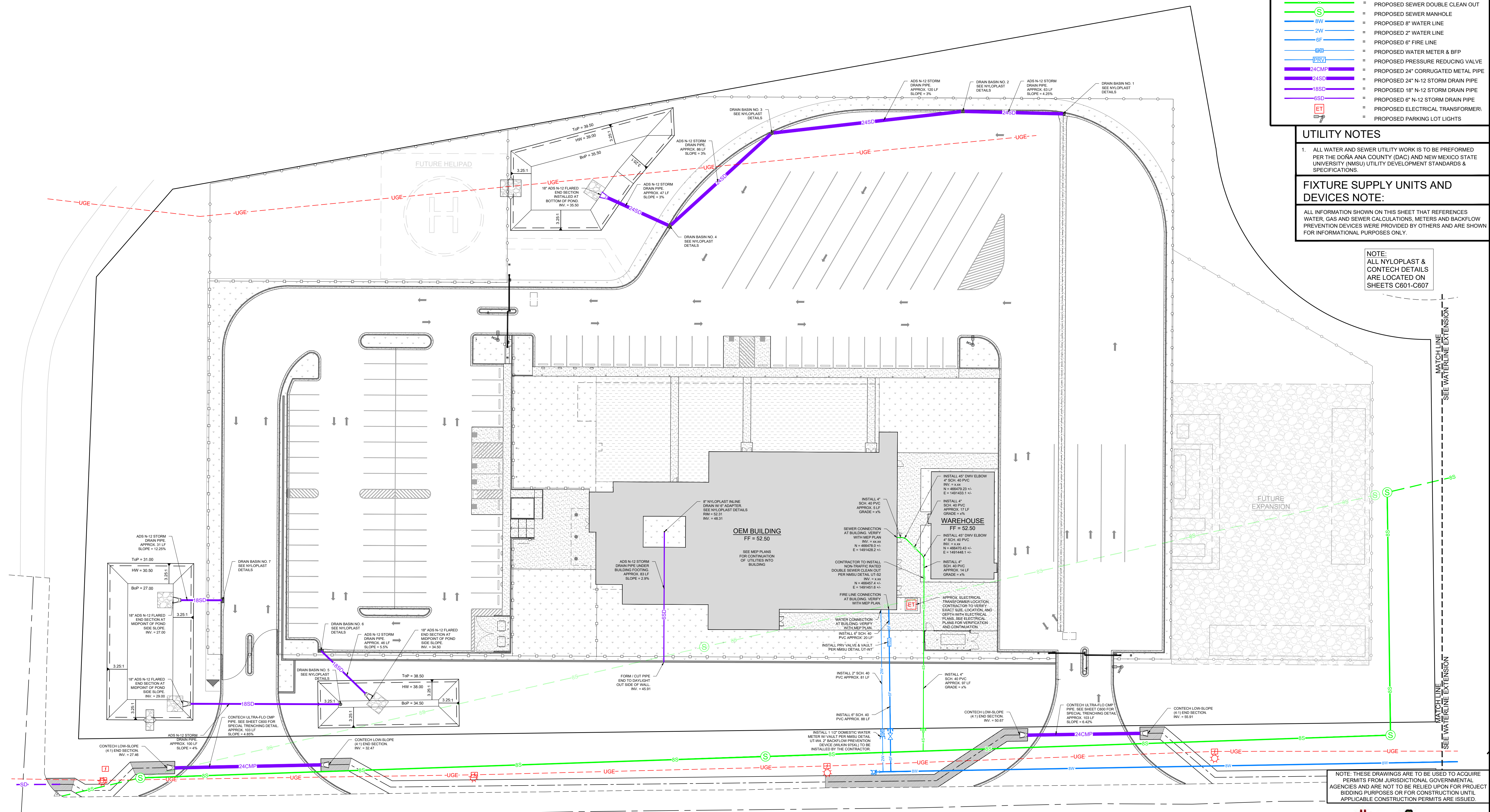
**UTILITY NOTES**

- ALL WATER AND SEWER UTILITY WORK IS TO BE PERFORMED PER THE DOÑA ANA COUNTY (DAC) AND NEW MEXICO STATE UNIVERSITY (NMSU) UTILITY DEVELOPMENT STANDARDS & SPECIFICATIONS.

**FIXTURE SUPPLY UNITS AND DEVICES NOTE:**

ALL INFORMATION SHOWN ON THIS SHEET THAT REFERENCES WATER, GAS AND SEWER CALCULATIONS, METERS AND BACKFLOW PREVENTION DEVICES WERE PROVIDED BY OTHERS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

**NOTE:**  
ALL NYLOPLAST & CONTECH DETAILS ARE LOCATED ON SHEETS C601-C607



By	CHKD	Description
		INITIAL SUBMITTAL
		90% SUBMITTAL

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 TORTUGAS TRAIL - LAS CRUCES, NM  
 UTILITY PLAN

Professional Engineer  
 MICHEL D. JOHNSON  
 NEW MEXICO  
 LICENSED PROFESSIONAL ENGINEER

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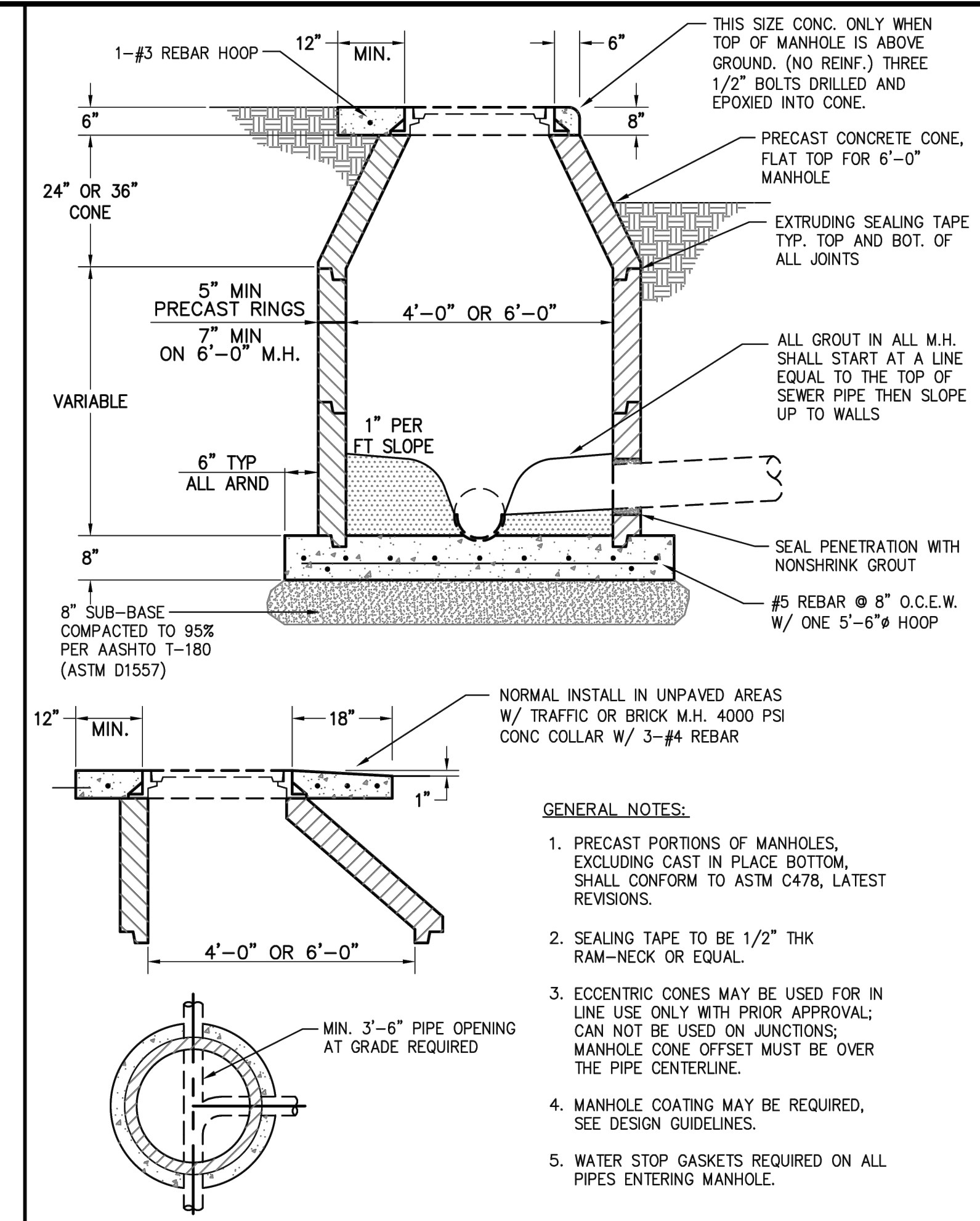
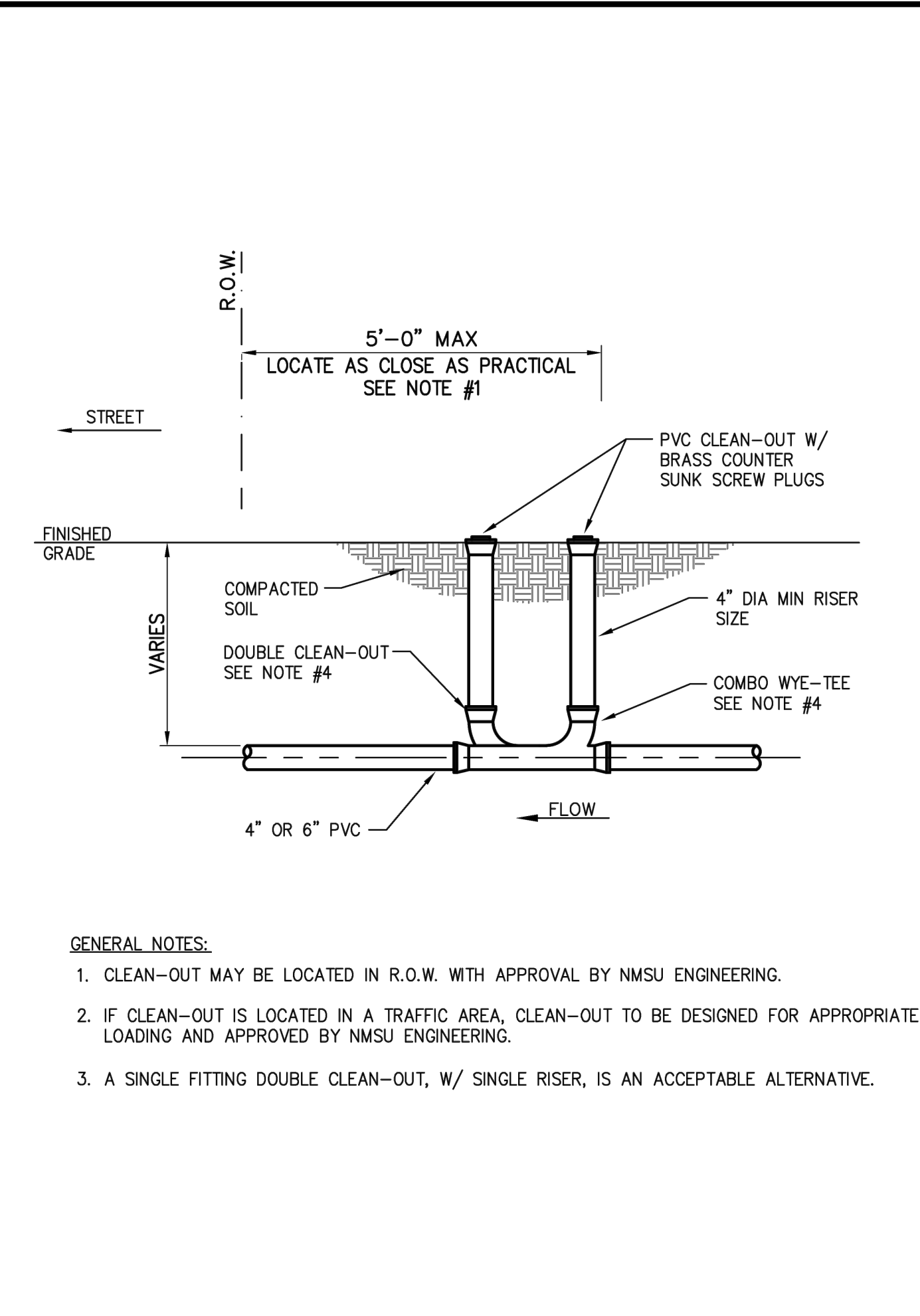
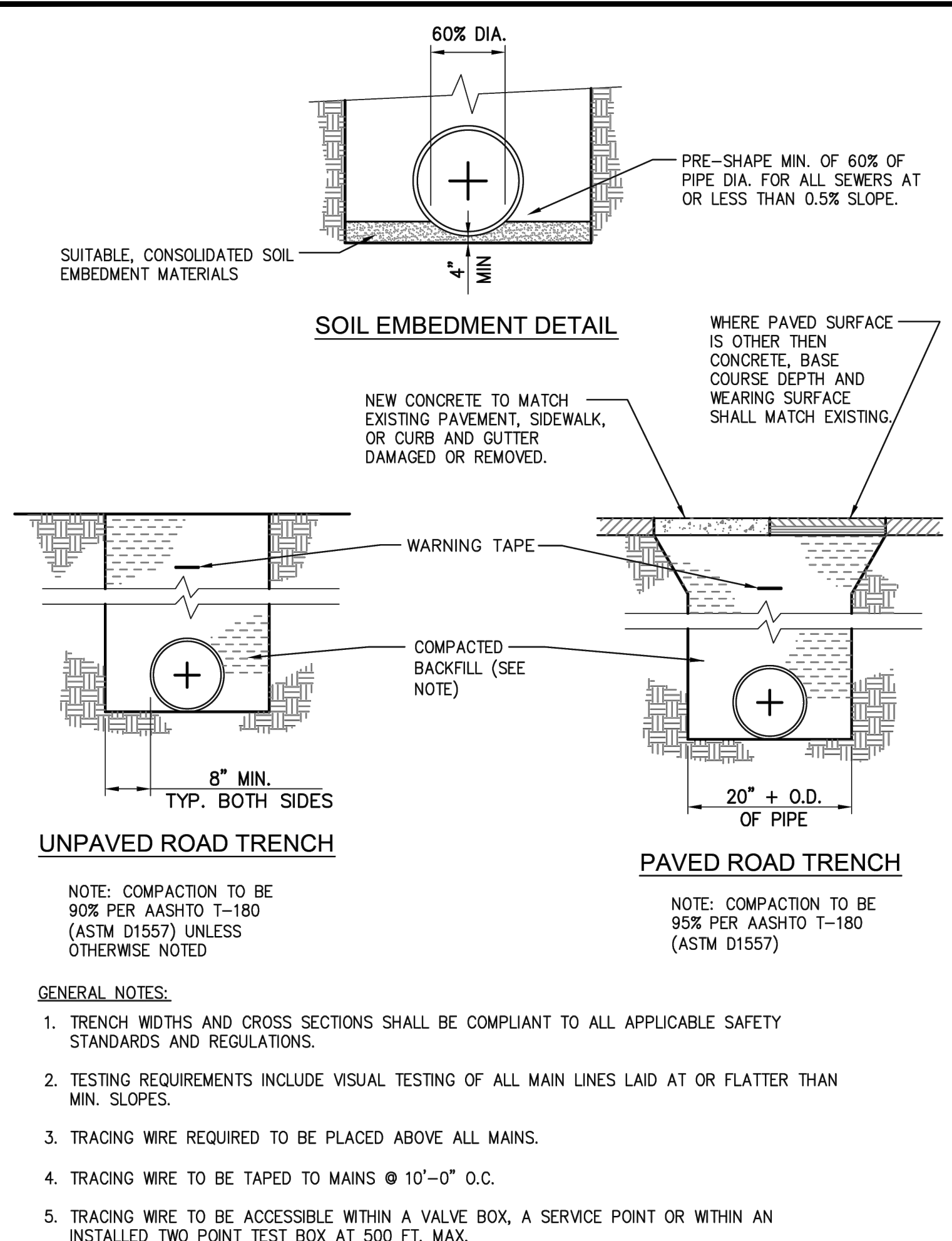


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**UTILITY PLAN**  
 SCALE: 1" = 30'

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Designed: MJ	Drawn: DIF
Checked: MJ	Scale: Horiz: AS SHOWN
Project No: 9331490	Scale: Vert: AS SHOWN
Sheet: C400	



NOTE: ALL NYLOPLAST & CONTECH DETAILS ARE LOCATED ON SHEETS C601-C607

By: CHK/J  
DIF NJ  
DIF NJ

DESCRIPTION  
INITIAL SUBMITTAL  
90% SUBMITTAL

Date  
11/16/24  
12/16/24

Rev #  
A  
B

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**SMA**

REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1/2"=1'-0"	FILE: DIR\UT-S1
		PLOT SIZE: 8.5 x 11	

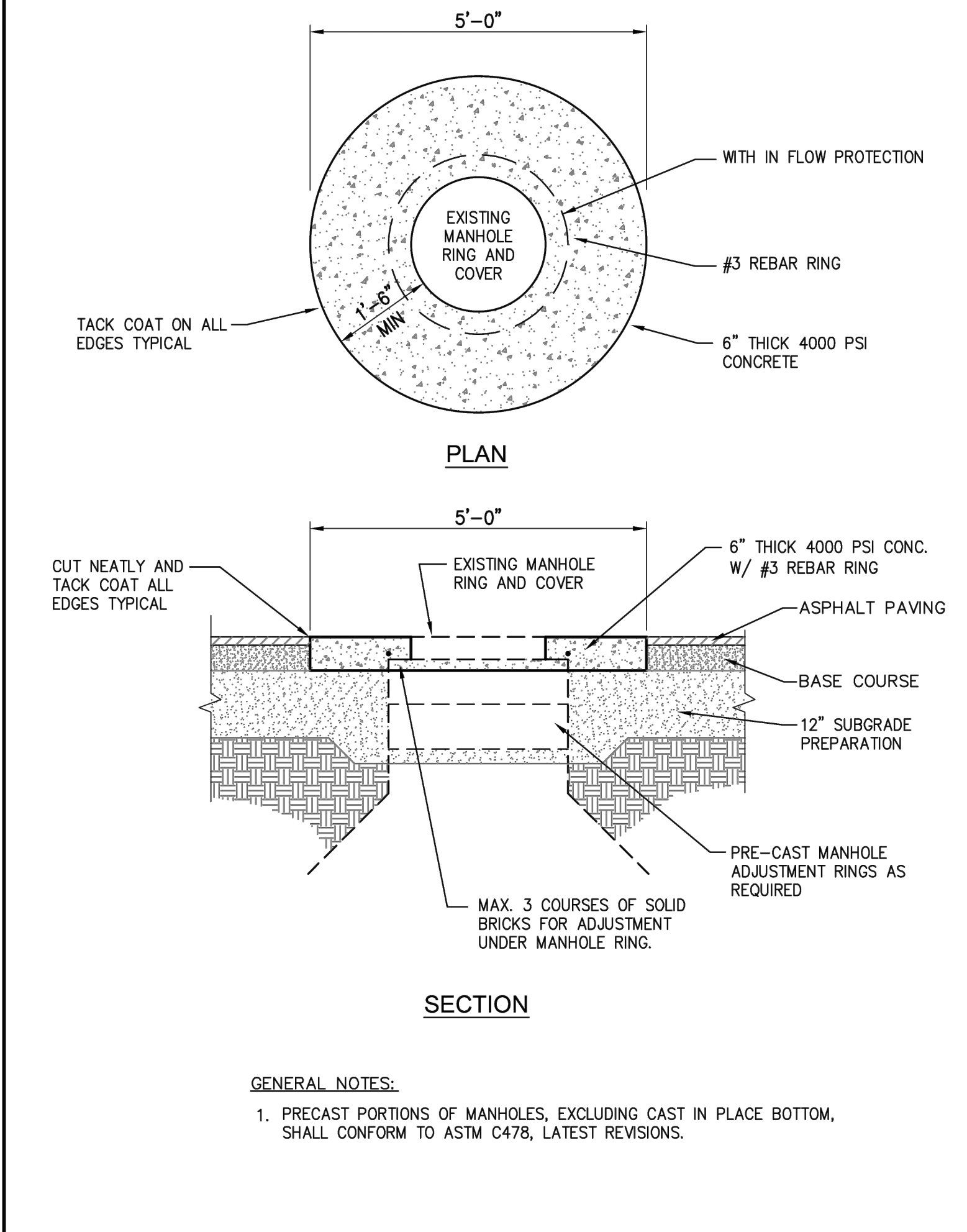
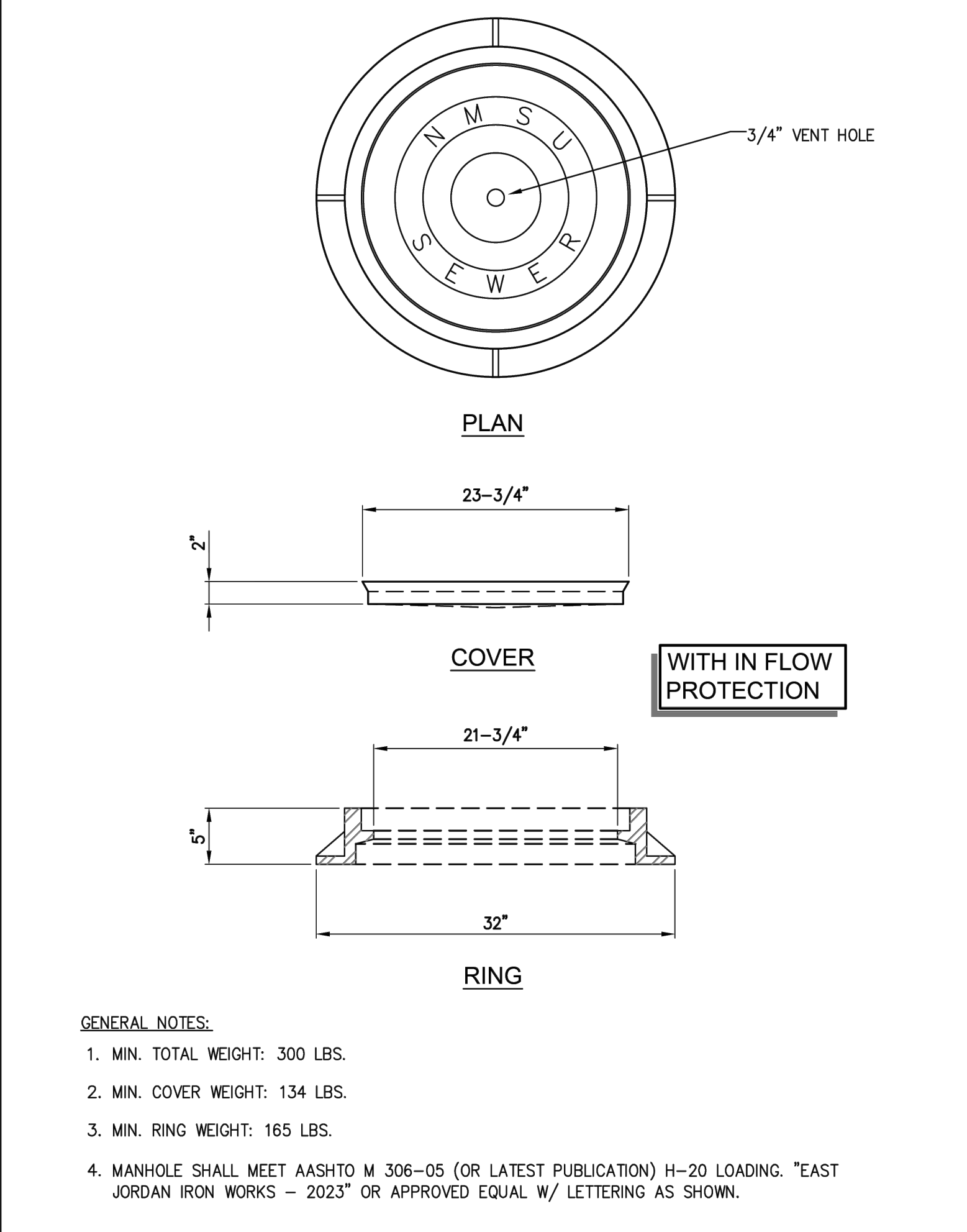
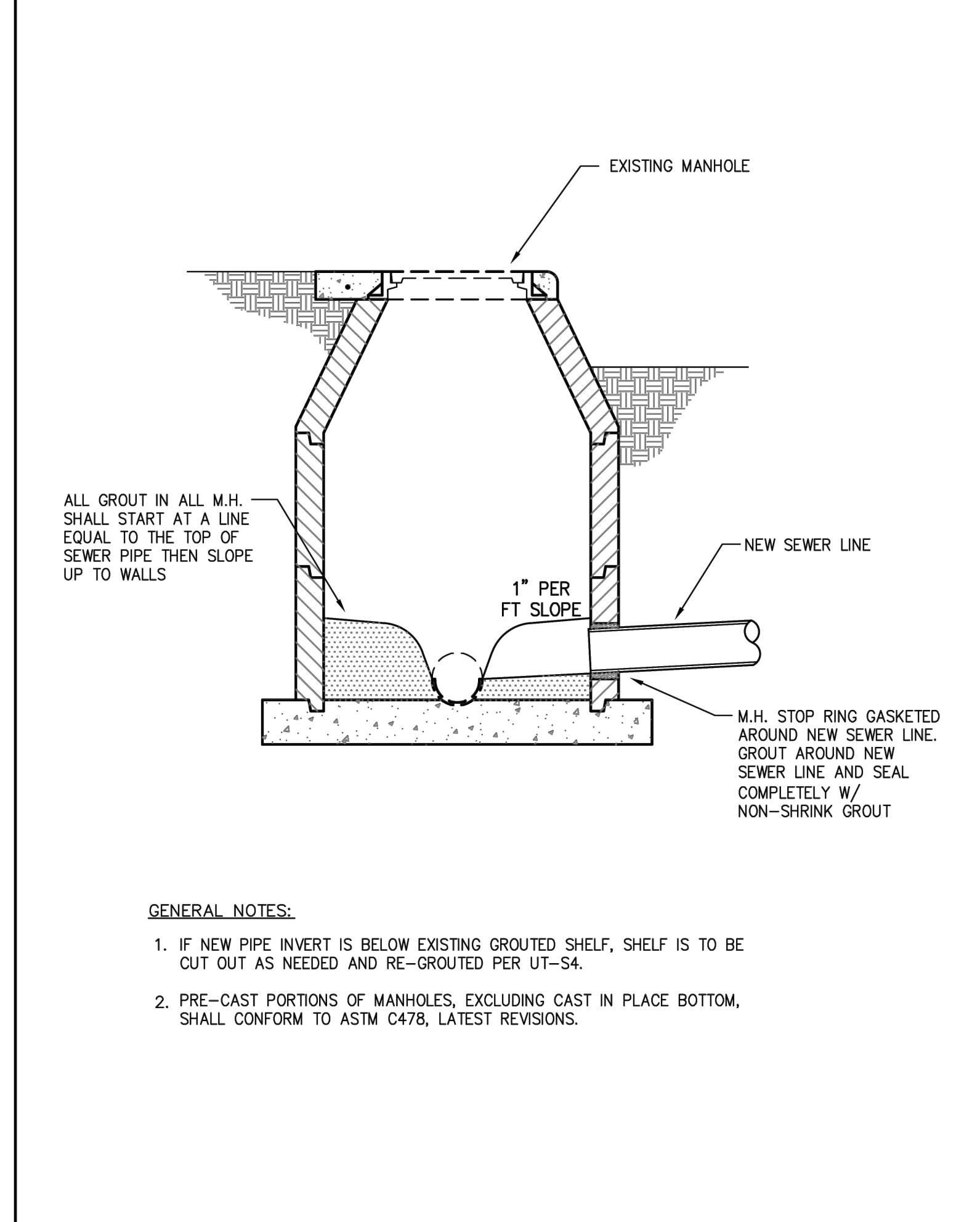
TYPICAL SEWER TRENCHING DETAILS  
New Mexico State University UT-S1

REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1/2"=1'-0"	FILE: DIR\UT-S2
		PLOT SIZE: 8.5 x 11	

SERVICE LINE CLEAN-OUT DETAIL  
New Mexico State University UT-S2

REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1/2"=1'-0"	FILE: DIR\UT-S4
		PLOT SIZE: 8.5 x 11	

TYPICAL MANHOLE DETAILS  
New Mexico State University UT-S4



REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1/2"=1'-0"	FILE: DIR\UT-S6
		PLOT SIZE: 8.5 x 11	

TAPPING INTO AN EXISTING STANDARD MANHOLE  
New Mexico State University UT-S6

REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1"=1'-0"	FILE: DIR\UT-S7
		PLOT SIZE: 8.5 x 11	

MANHOLE RING AND COVER  
New Mexico State University UT-S7

REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1/2"=1'-0"	FILE: DIR\UT-S8
		PLOT SIZE: 8.5 x 11	

MANHOLE RIM ADJUSTMENT DETAIL  
New Mexico State University UT-S8

NOTE: THESE DRAWINGS ARE TO BE USED TO ACQUIRE PERMITS FROM JURISDICTIONAL GOVERNMENTAL AGENCIES AND ARE NOT TO BE RELIED UPON FOR PROJECT BIDDING PURPOSES OR FOR CONSTRUCTION UNTIL APPLICABLE CONSTRUCTION PERMITS ARE ISSUED.



LAS CRUCES, NEW MEXICO

DOÑA ANA COUNTY OEM EMERGENCY OPERATIONS CENTER  
TORTUGAS TRAIL - LAS CRUCES, NM  
UTILITY DETAILS

12/16/24

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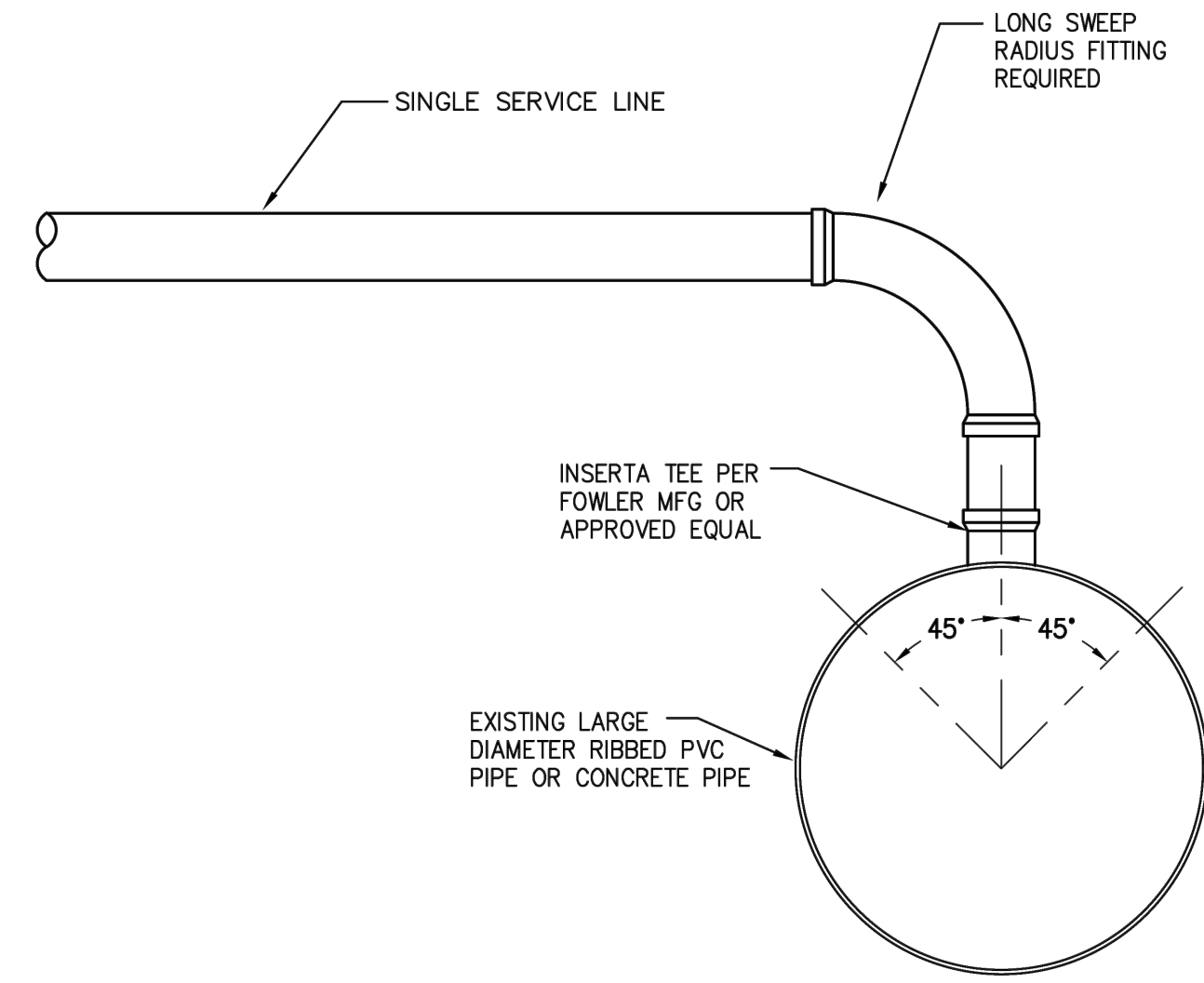
Designed: MJ  
Drawn: DIF  
Checked: MJ

Date: December 2024  
Scale: Horiz: AS SHOWN  
Vert: AS SHOWN

Project No: 9331490

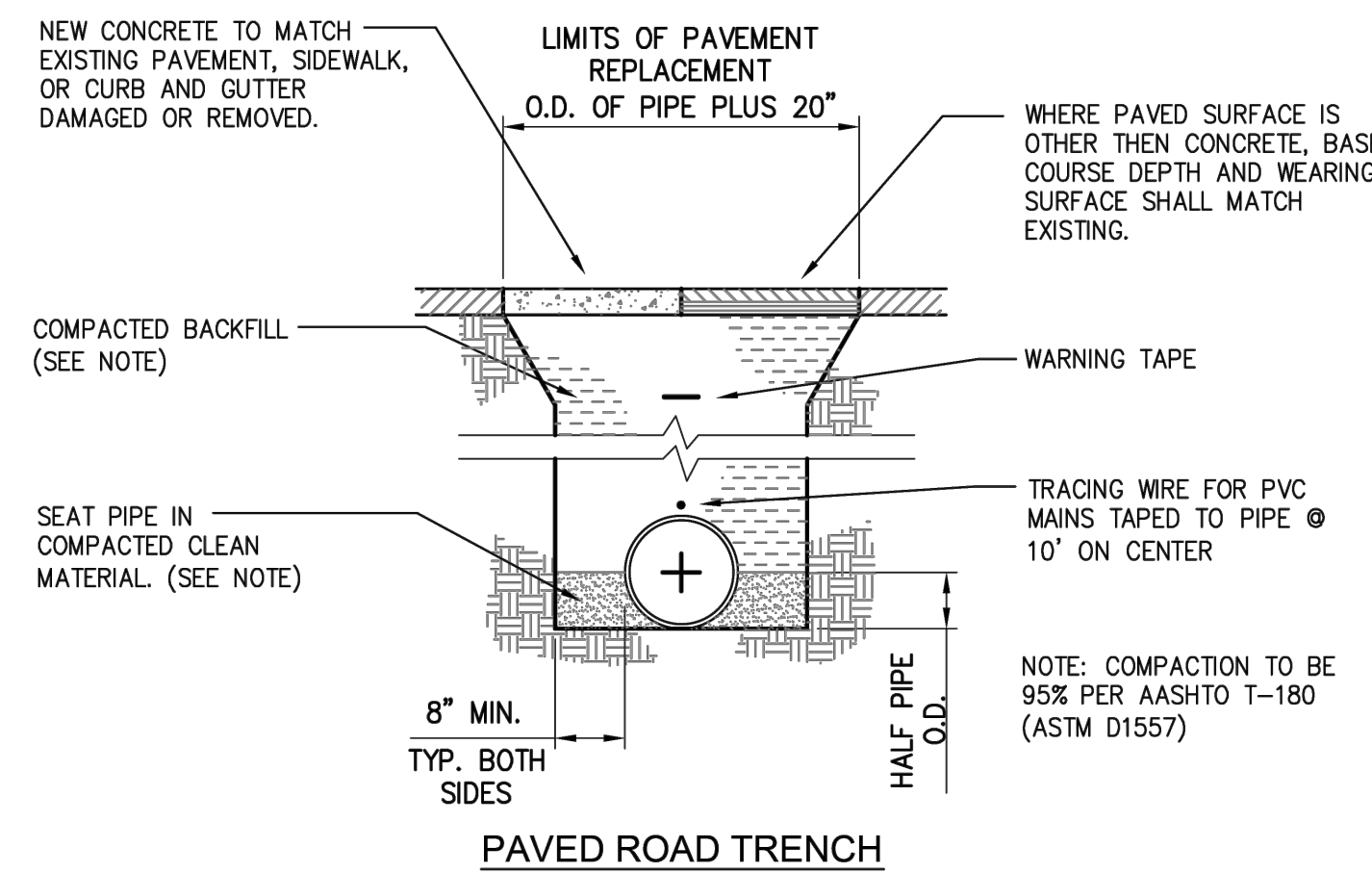
Sheet: C401

Professional Resources for Damage Prevention

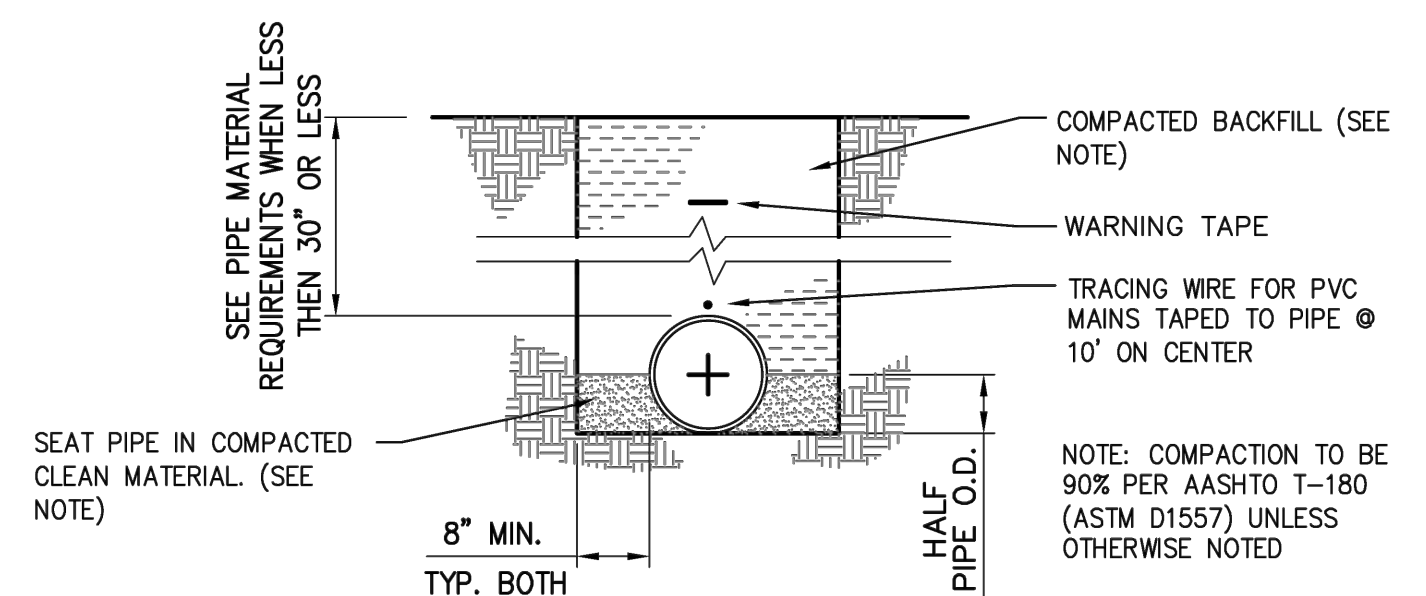


**GENERAL NOTES:**

1. INSERT A TEE OR APPROVED EQUAL TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
2. TEE CONNECTION SHALL BE IN THE TOP OR WITHIN 45° OF VERTICAL.



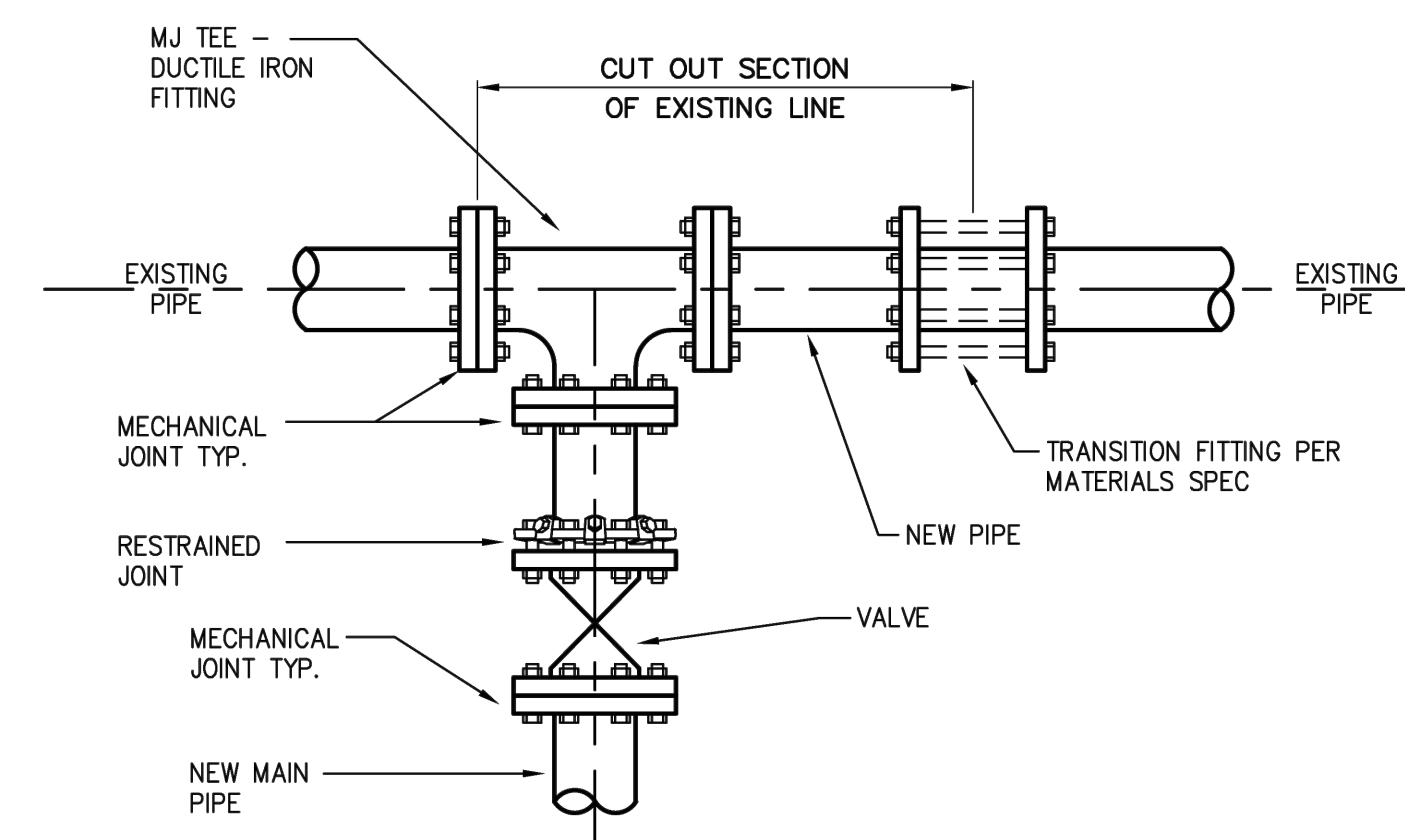
**PAVED ROAD TRENCH**



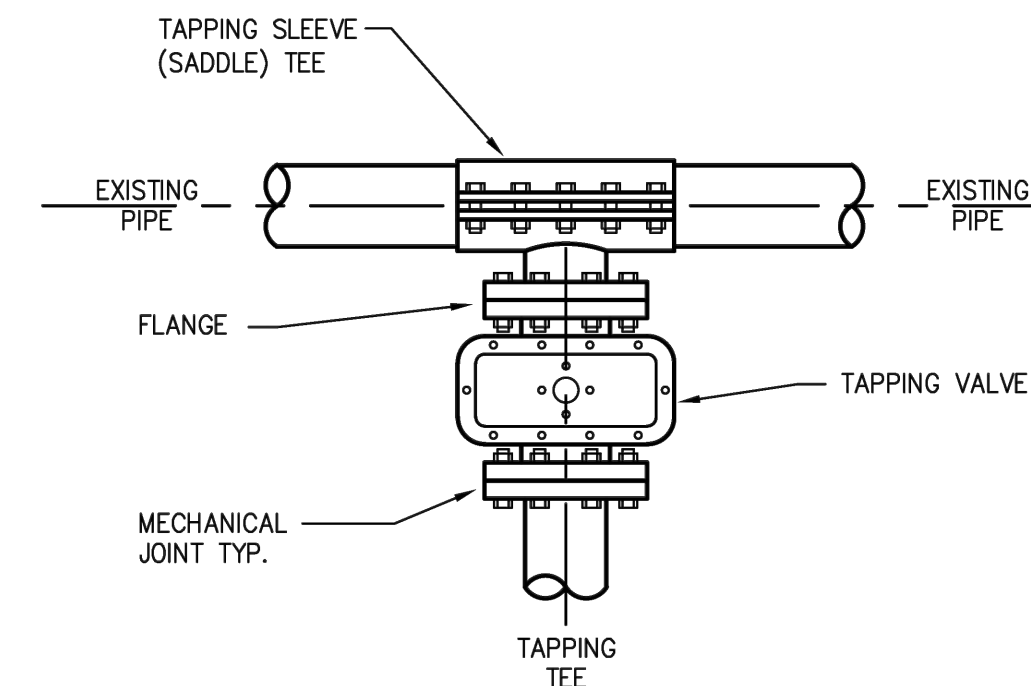
**UNPAVED ROAD TRENCH**

**GENERAL NOTES:**

1. TRACING WIRE REQUIRED TO BE PLACED ABOVE ALL MAINS AND TRANSMISSION LINES.
2. TEST BOXES THAT ARE CONNECTED INTO TRACING WIRE SYSTEM, SHALL BE WHERE HYDRANTS ARE NOT USED OR WHERE HYDRANT SPACING EXCEEDS 500 FEET.
3. TRENCH WIDTHS AND CROSS SECTIONS SHALL BE COMPLIANT TO ALL APPLICABLE SAFETY STANDARDS AND REGULATIONS.



**WET CONNECTION**



**TAPPED CONNECTION**

NOTE: ALL NYLOPLAST & CONTECH DETAILS ARE LOCATED ON SHEETS C601-C607

By: CRK  
DIF: NJ  
Description: INITIAL SUBMITTAL  
90% SUBMITTAL  
Rev # A B  
Date: 11/16/24  
12/16/24

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LAS CRUCES, NEW MEXICO

**DOÑA ANA COUNTY OEM EMERGENCY OPERATIONS CENTER**  
TORTUGAS TRAIL - LAS CRUCES, NM

UTILITY DETAILS

DOÑA ANA COUNTY

**MECHEL D. JOHNSON**  
NEW MEXICO  
REGISTERED PROFESSIONAL ENGINEER

12/16/24

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Designed: MJ  
Drawn: DIF  
Checked: MJ

Date: December 2024  
Scale: Horiz: AS SHOWN  
Vert: AS SHOWN

Project No: 9331490  
Sheet: **C402**

**SERVICE LINE INSERTA TEE CONNECTION**

REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1/2"=1'-0"	
FILE: DIR\UT-S12	PLOT SIZE: 8.5 x 11		

New Mexico State University UT-S12

**WATER TRENCHING DETAILS**

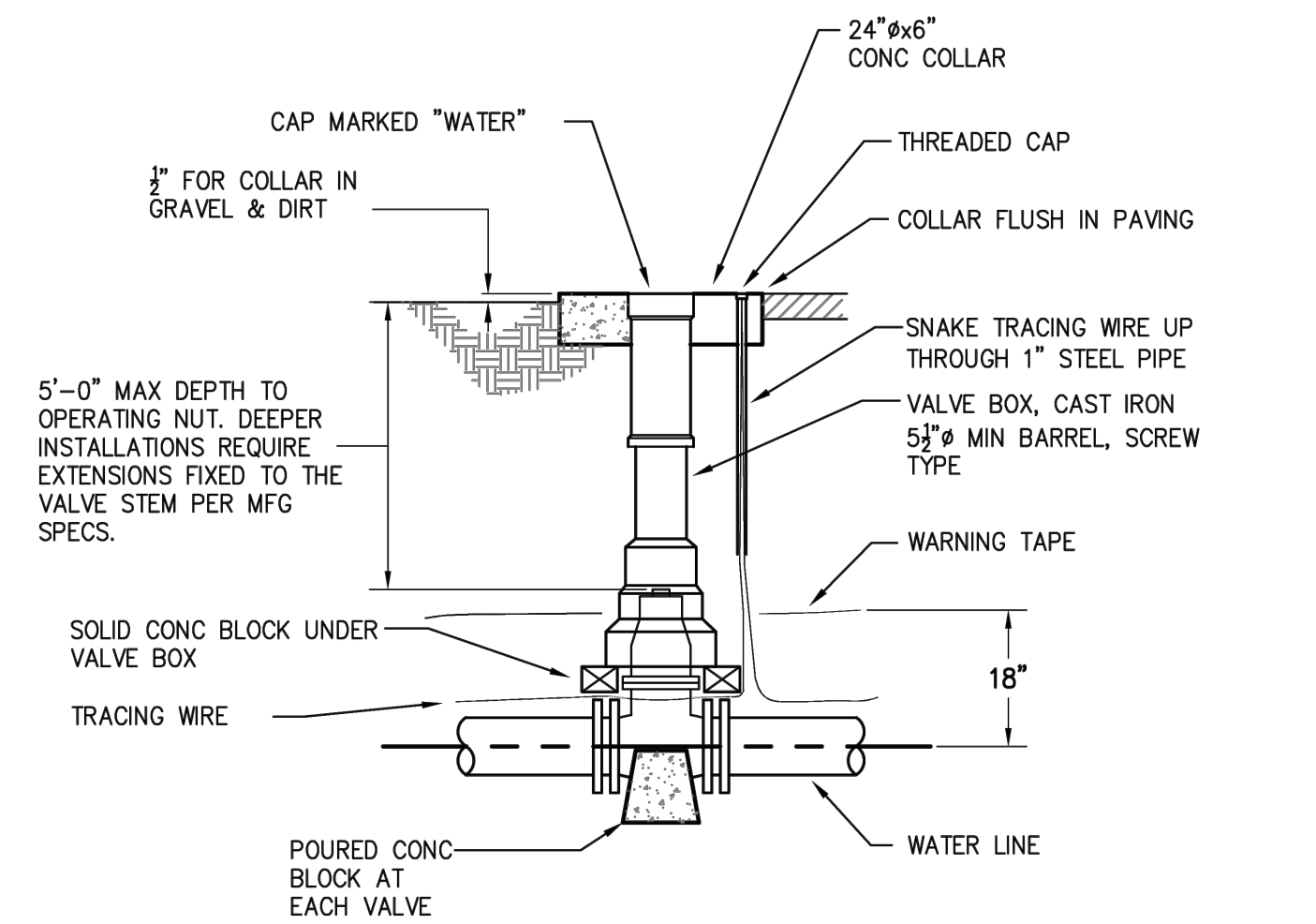
REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1/2"=1'-0"	
FILE: DIR\UT-W1	PLOT SIZE: 8.5 x 11		

New Mexico State University UT-W1

**TYPICAL WATER CONNECTION**

REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1"=1'-0"	
FILE: DIR\UT-W2	PLOT SIZE: 8.5 x 11		

New Mexico State University UT-W2



**SECTION**

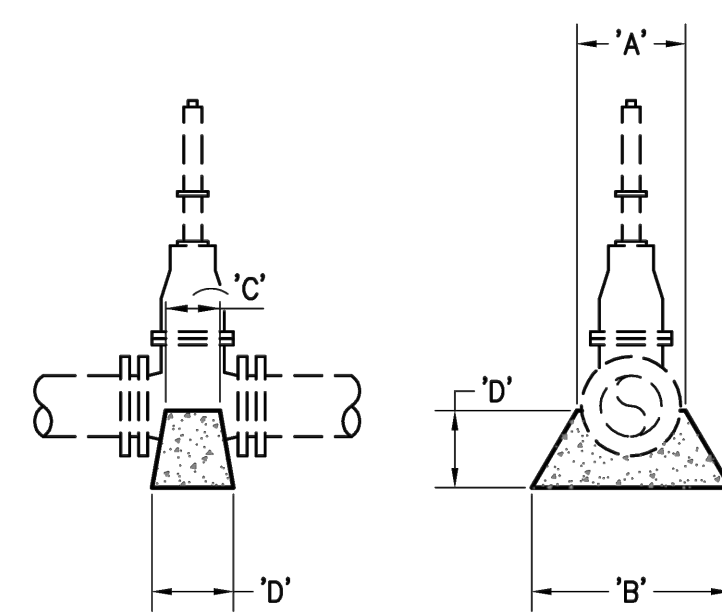
**VALVE SUPPORT TABLE**

VALVE SIZE	A	B	C	D
4"	10"	20"	4"	6"
8"	12"	22"	4"	8"
10"	14"	24"	4"	8"
12"	16"	24"	4"	8"
16"	24"	36"	6"	12"

**GENERAL NOTES:**

1. CONCRETE STRENGTH TO BE 3,000 PSI.

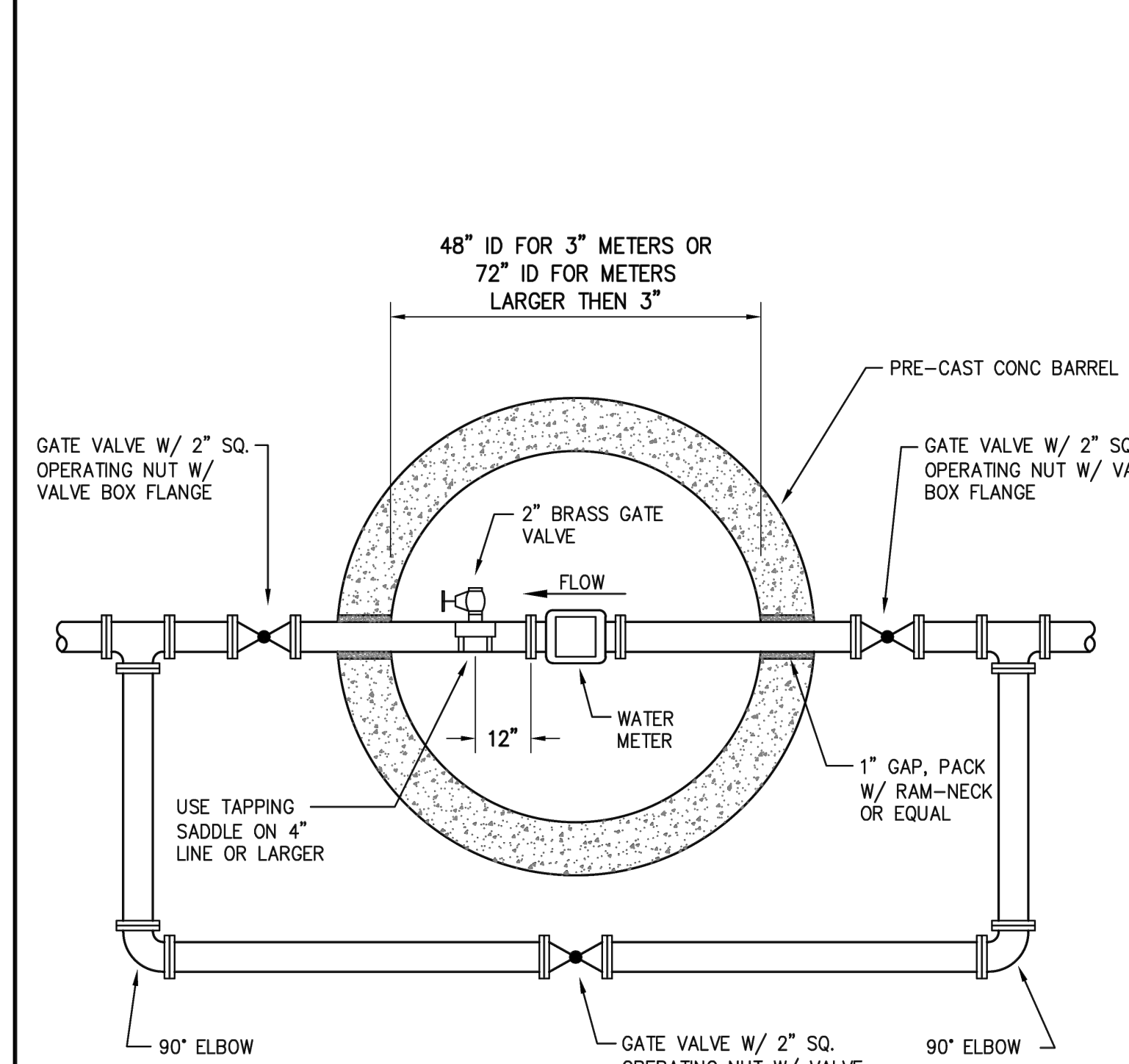
**BLOCKING**



**WATER VALVE DETAIL**

REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1/2"=1'-0"	
FILE: DIR\UT-W3	PLOT SIZE: 8.5 x 11		

New Mexico State University UT-W3



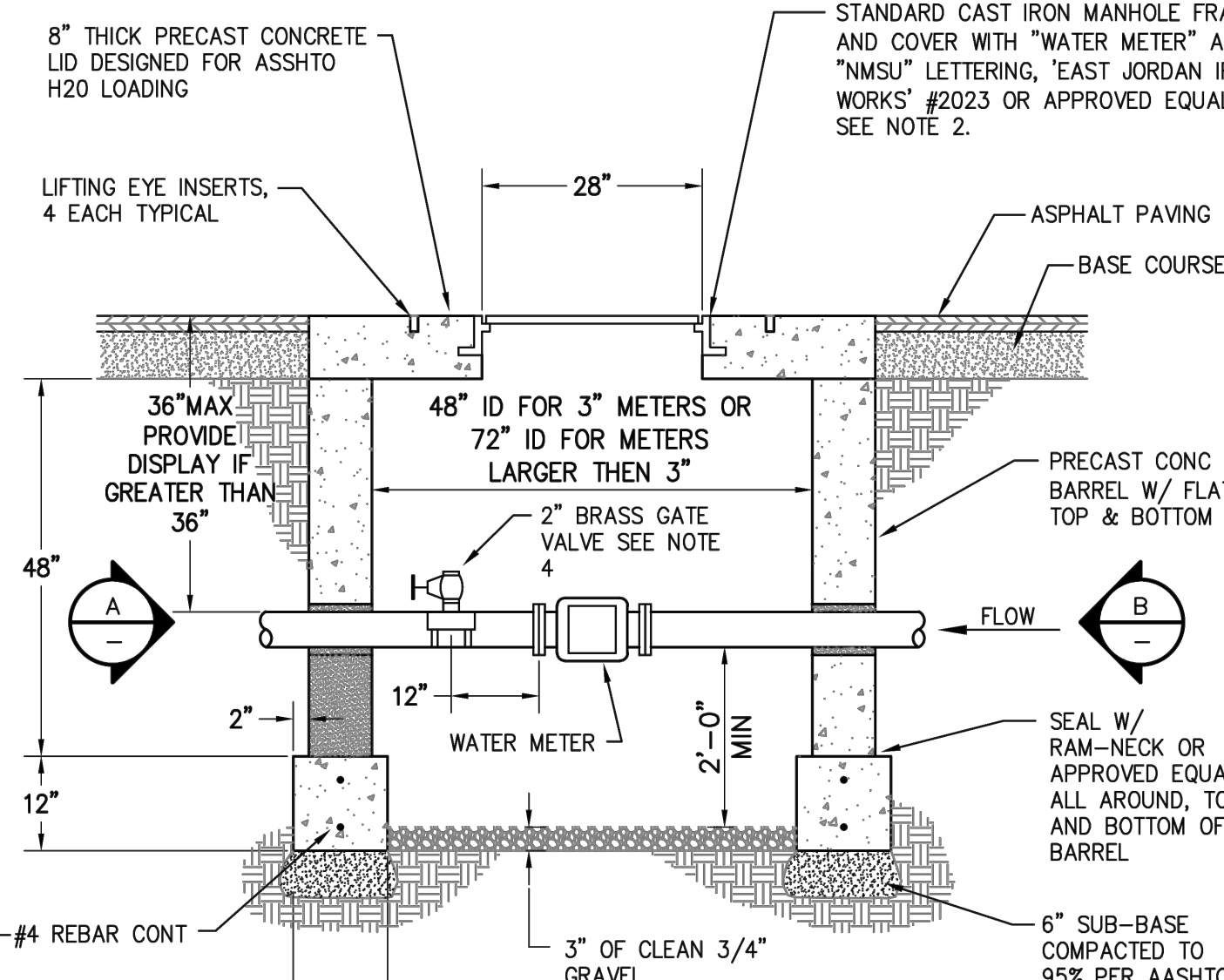
**GENERAL NOTES:**

1. C-900 OR DUCTILE IRON PIPE ON 3" PIPE OR GREATER.
2. SEE UT-W5 FOR VAULT SECTION AND ADDITIONAL INFORMATION.

**WATER METER VAULT PLAN**

REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1/2"=1'-0"	
FILE: DIR\UT-W4	PLOT SIZE: 8.5 x 11		

New Mexico State University UT-W4



**VIEW 'A'**  
TYPICAL FOR EXISTING LINE

**GENERAL NOTES:**

1. BYPASS REQUIRED ON ALL METERS LARGER THAN 2"; SEE UT-W4.
2. FOR NON-TRAFFIC BEARING APPLICATIONS, MANHOLE FRAME AND COVER TO BE 'EAST JORDAN IRON WORKS', EN104621, LIGHT DUTY INLET COVER OR APPROVED EQUAL.
3. PRECAST PORTIONS OF MANHOLES, EXCLUDING CAST-IN-PLACE FOOTINGS, SHALL CONFORM TO ASTM C478, LATEST EDITION.
4. USE TAPPING SADDLE ON 4" LINE OR GREATER.

**VIEW 'B'**  
TYPICAL FOR NEW LINE

**TRAFFIC WATER METER VAULT SECTION**

REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1/2"=1'-0"	
FILE: DIR\UT-W5	PLOT SIZE: 8.5 x 11		

New Mexico State University UT-W5

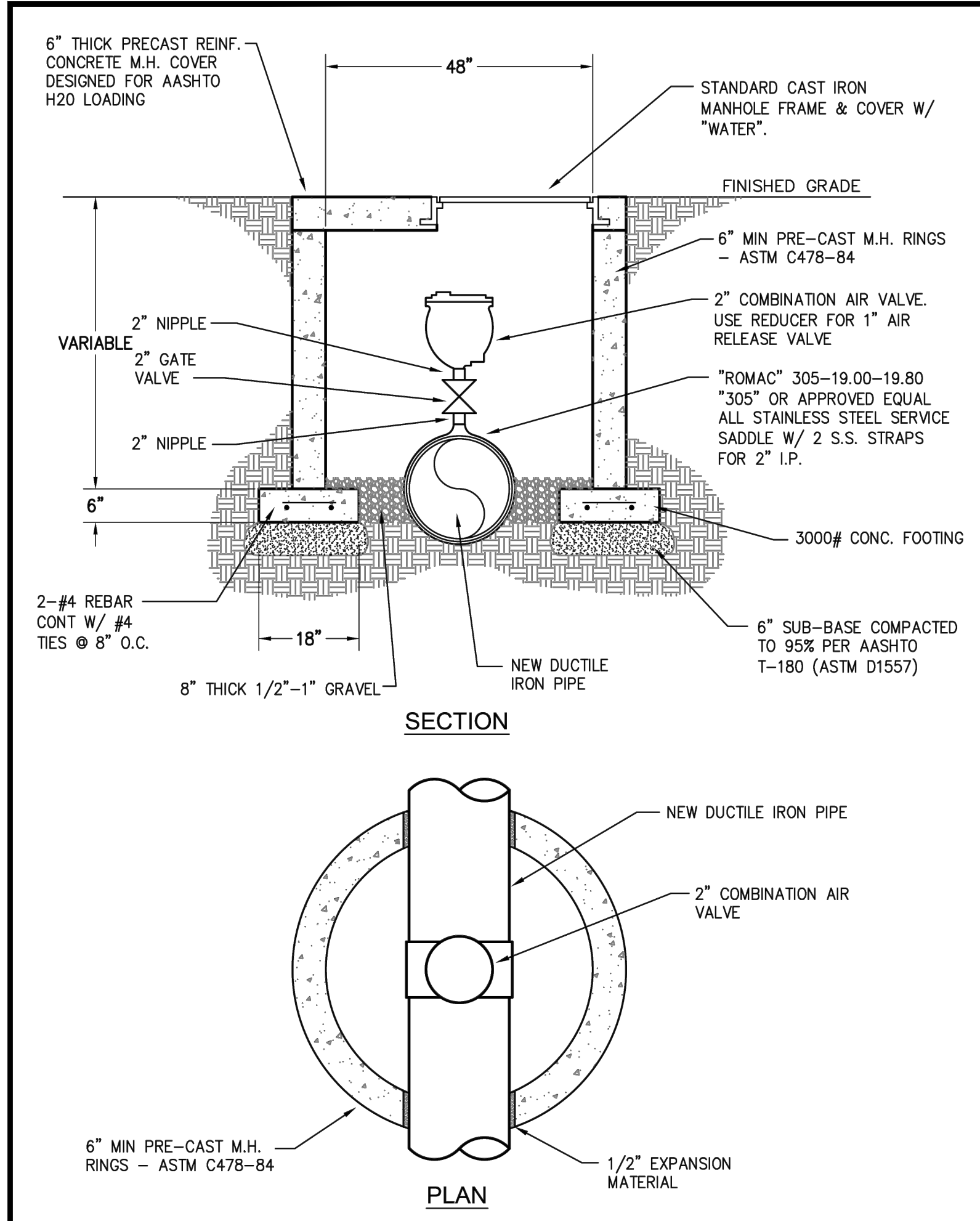
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To Request a Line Locate Dial 811

New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.

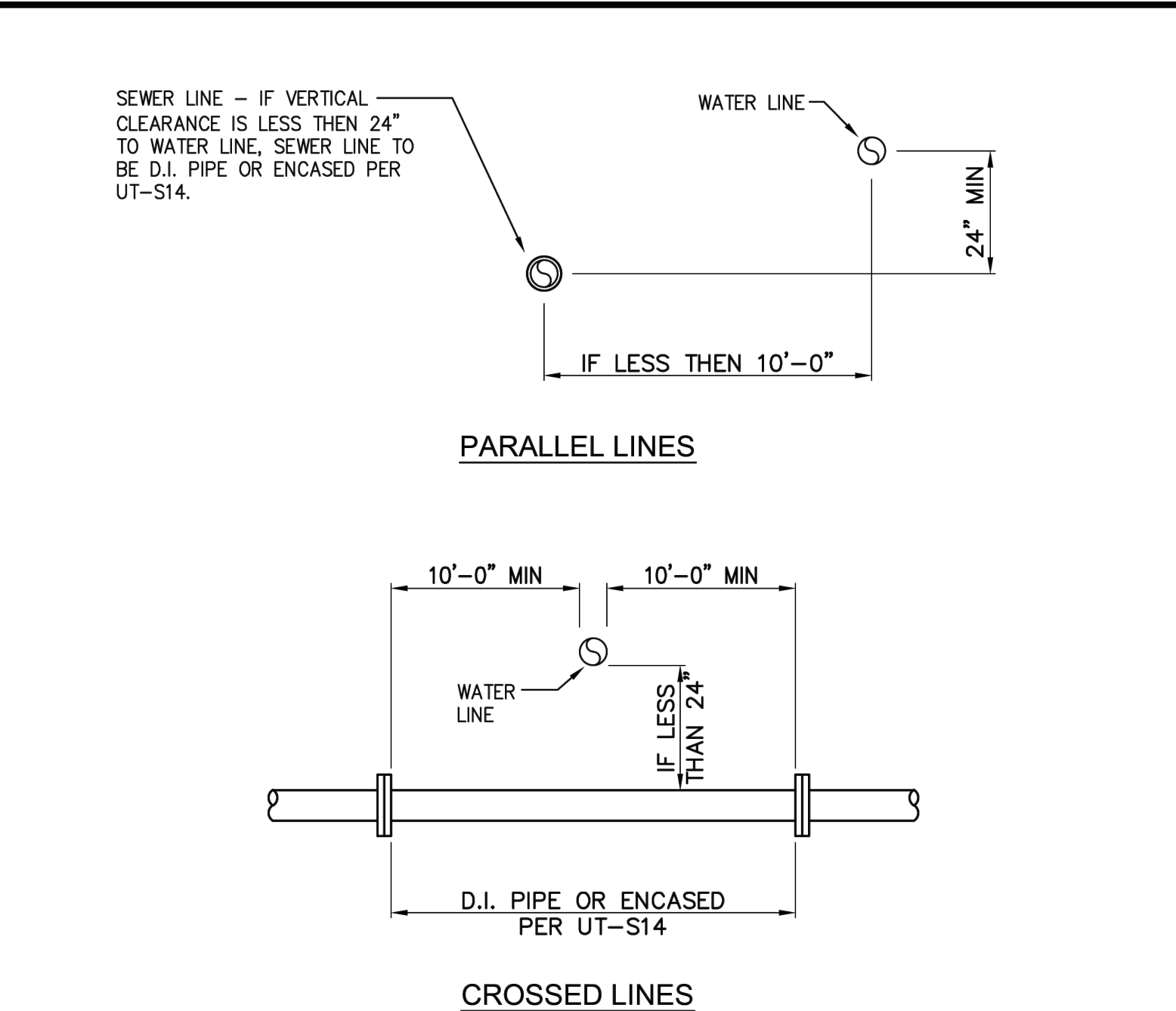




REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1/2"=1'-0"	FILE: DIR\UT-W6

AIR / VACUUM RELIEF VALVE

New Mexico State University UT-W6



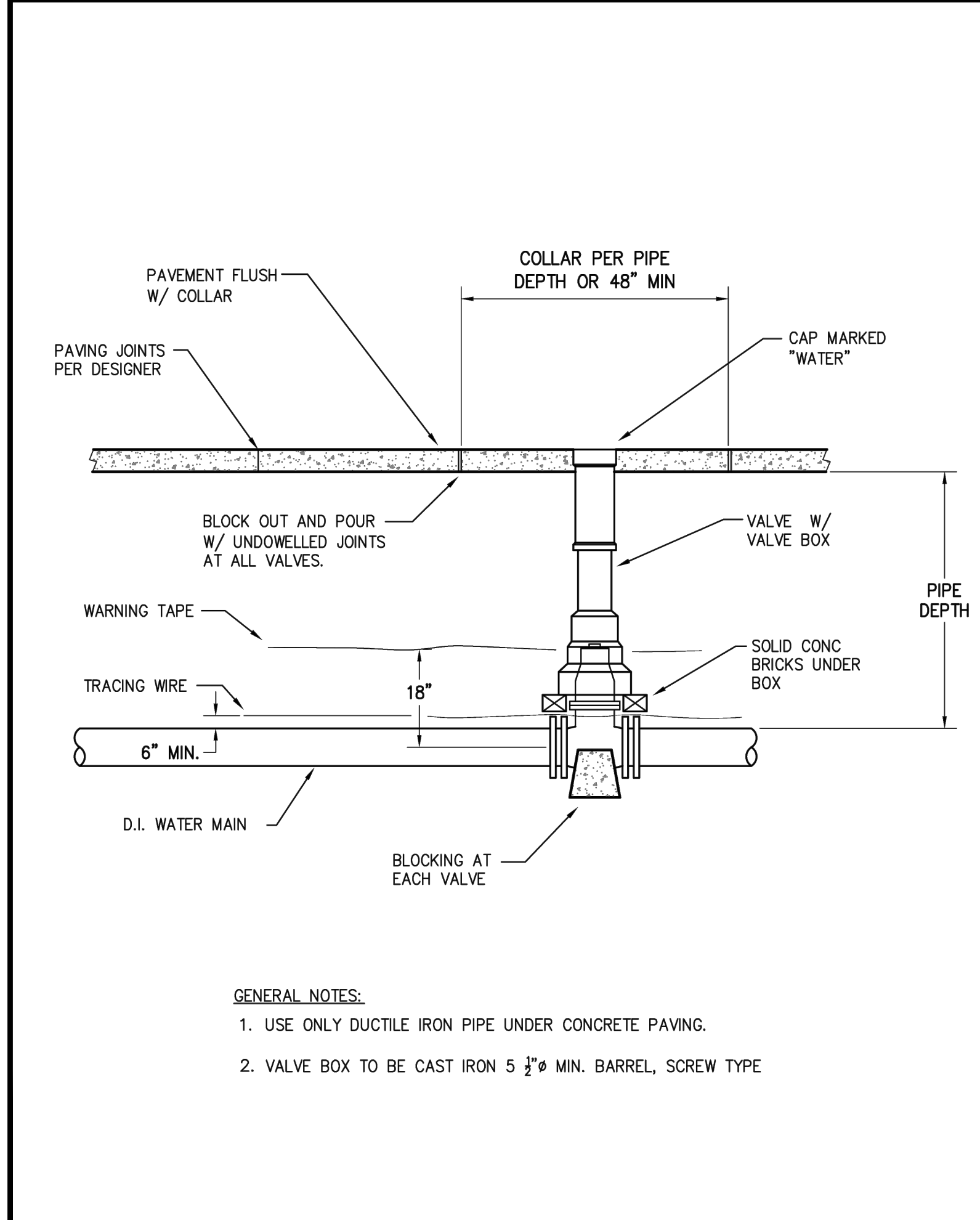
**GENERAL NOTES:**

- WHEN WATER AND SEWER LINES ARE INSTALLED PARALLEL A MINIMUM OF 10'-0" HORIZONTAL SPACING SHALL BE MAINTAINED. IF HORIZONTAL SPACING IS LESS THAN 10'-0" THEN VERTICAL SPACING SHALL BE A MINIMUM OF 24" WITH WATER LINE INSTALLED HIGHER THEN THE SEWER LINE. IF HORIZONTAL SPACING IS LESS THEN 10'-0" AND VERTICAL SPACING IS NOT 24", THE SEWER LINE SHALL BE D.I. PIPE OR ENCASED PER UT-S14.
- WHEN WATER AND SEWER LINES CROSS, THE WATER LINE SHALL BE A MINIMUM OF 24" ABOVE THE SEWER LINE. IF THE VERTICAL CLEARANCE IS LESS THEN 24", THE SEWER LINE SHALL BE D.I. PIPE OR ENCASED PER UT-S14 A MIN OF 10'-0" EACH SIDE OF THE WATER LINE.
- MINIMUM CLEARANCES ARE TO BE MAINTAINED BETWEEN PARALLEL OR CROSSING SEWER AND WATER LINES EVEN WHEN LINES ARE NOT INSTALLED AT THE SAME TIME.
- WATER MAIN CARRIER LINES SHALL BE OF MATERIALS APPROVED BY APPROPRIATE REGULATORY AGENCY AND NMSU ENGINEERING.

REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1/2"=1'-0"	FILE: DIR\UT-W9

PARRALEL AND CROSSED LINE

New Mexico State University UT-W9



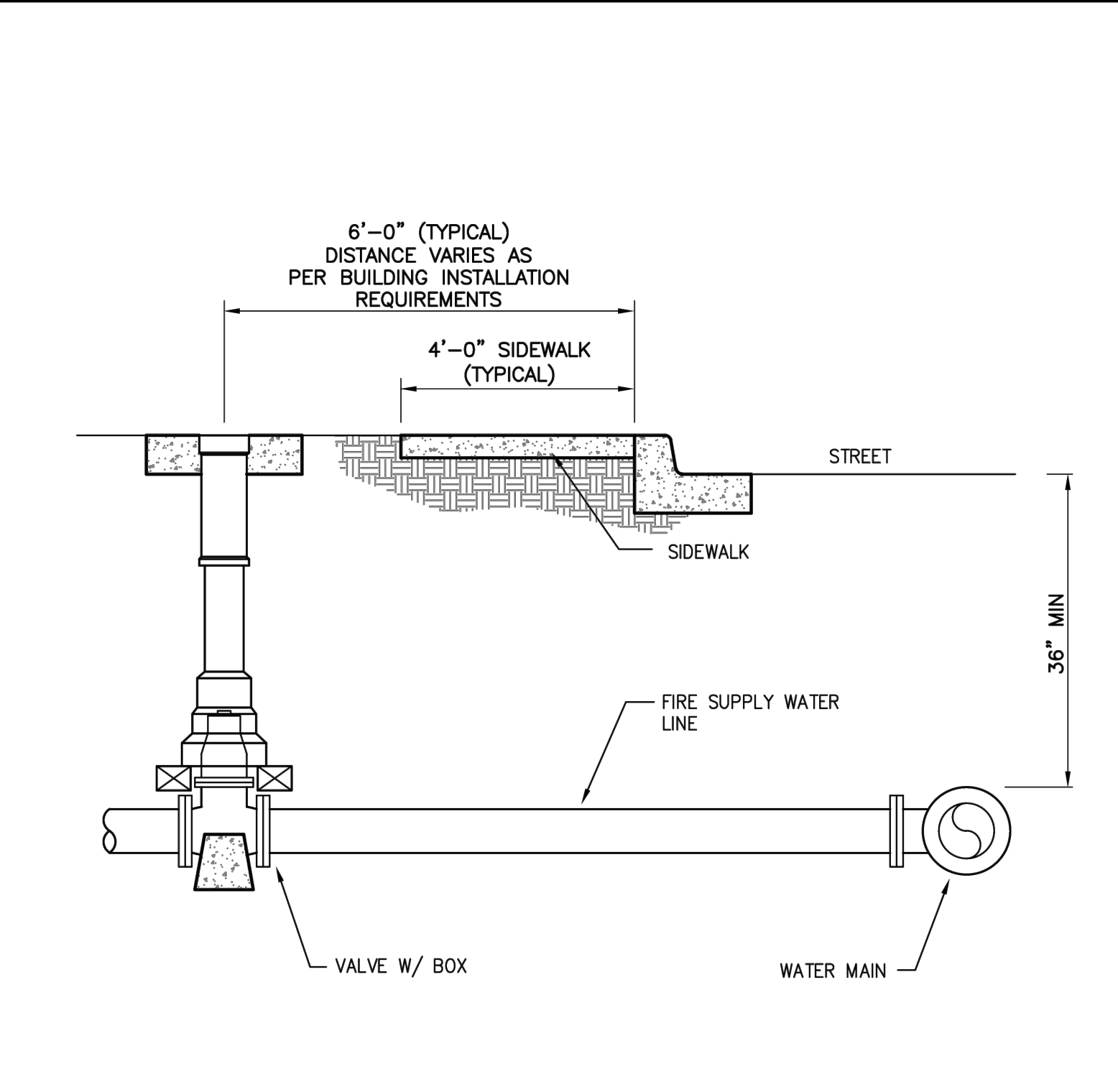
**GENERAL NOTES:**

- USE ONLY DUCTILE IRON PIPE UNDER CONCRETE PAVING.
- VALVE BOX TO BE CAST IRON 5 1/2" MIN. BARREL, SCREW TYPE

REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1/2"=1'-0"	FILE: DIR\UT-W11

WATER MAIN UNDER RIGID PAVING

New Mexico State University UT-W11



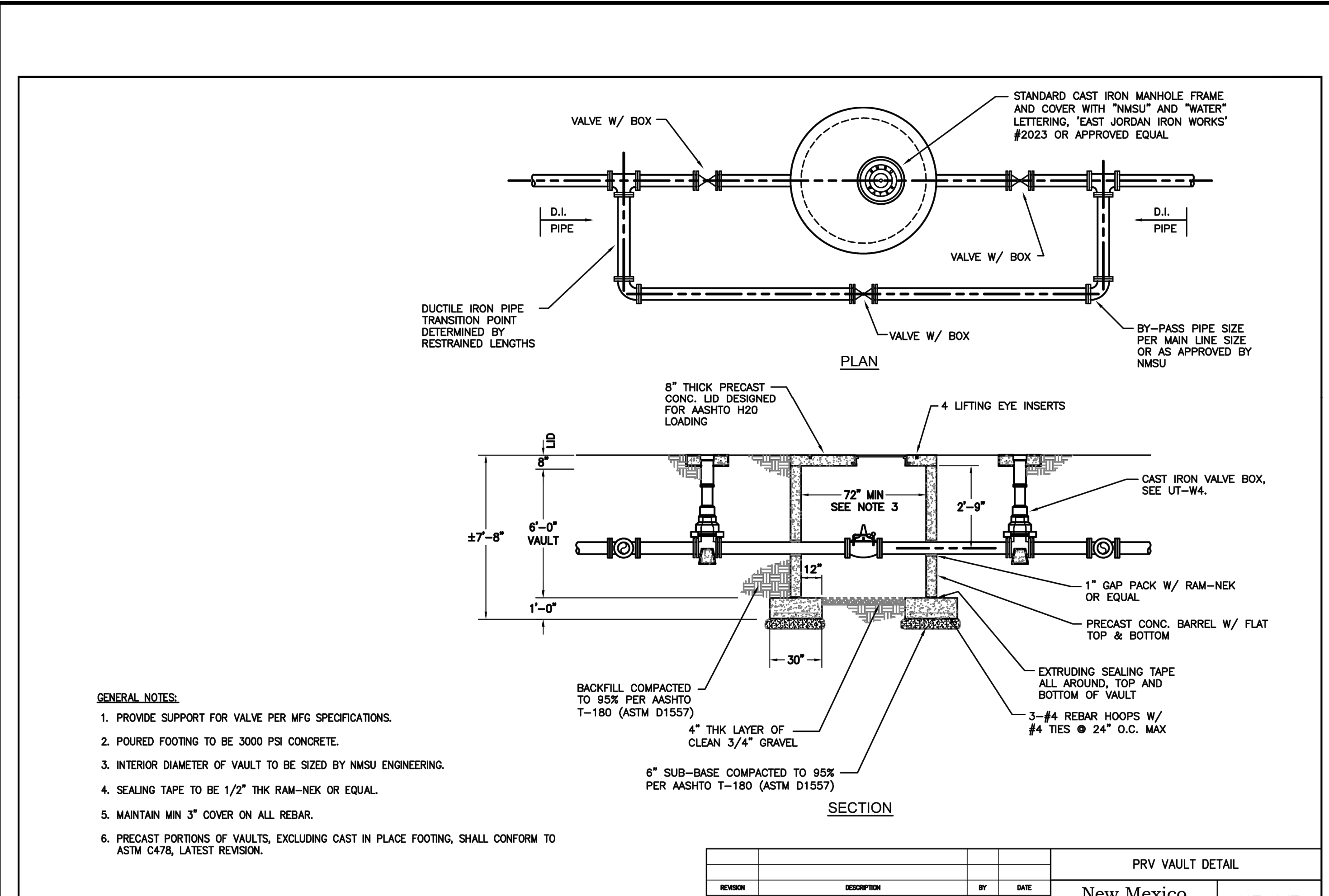
**GENERAL NOTES:**

- WHEN USING A TAPPING TEE NMSU SHALL BE RESPONSIBLE FOR INSTALLATION.
- VALVE W/ BOX MAY BE LOCATED OUTSIDE OF THE LOCATION SHOWN (IN STREET/ OBSTACLES) W/ APPROVAL FROM NMSU ENGINEERING.

REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: 1/2"=1'-0"	FILE: DIR\UT-W14

FIRE SUPPLY LINE

New Mexico State University UT-W14



**GENERAL NOTES:**

- PROVIDE SUPPORT FOR VALVE PER MFG SPECIFICATIONS.
- POURED FOOTING TO BE 3000 PSI CONCRETE.
- INTERIOR DIAMETER OF VAULT TO BE SIZED BY NMSU ENGINEERING.
- SEALING TAPE TO BE 1/2" THK RAM-NEK OR EQUAL.
- MAINTAIN MIN 3" COVER ON ALL REBAR.
- PRECAST PORTIONS OF VAULTS, EXCLUDING CAST IN PLACE FOOTING, SHALL CONFORM TO ASTM C478, LATEST REVISION.

REVISION	DESCRIPTION	BY	DATE
APPROVED: D.C.	ISSUED: 10/1/12	SCALE: NTS	FILE: DIR\UT-W7

PRIVATE VAULT DETAIL

New Mexico State University UT-W7

**FIRE PROTECTION GENERAL NOTES**  
NOTES APPLY TO ALL FP DRAWINGS

- THE DRAWINGS INDICATE AND SPECIFY THE DESIGN INTENT. THE DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE CONSTRUCTION DETAILS AND ROUTING UNLESS SPECIFICALLY INDICATED. THE SPECIFICATIONS ESTABLISH MINIMUM PERFORMANCE AND PRODUCT INSTALLATION REQUIREMENTS.
- FIRE PROTECTION DESIGN SHALL COMPLY WITH THE LATEST EDITIONS OF NFPA 13 AND 2006 INTERNATIONAL FIRE CODE.
- COORDINATE ALL POINTS OF CONNECTIONS WITH SITE UTILITY CONTRACTOR.
- COORDINATE FIRE PROTECTION WATER ENTRY W/ OTHER CONTACTORS.
- COORDINATE SLAB AND WALL PENETRATIONS W/ GENERAL CONTACTOR.
- COORDINATE ALL PIPING ROUTING AND EQUIPMENT LOCATIONS W/ OTHER TRADES.
- SUBMIT ALL FIRE PROTECTION SHOP DRAWING AND HYDRAULIC CALCULATIONS WITH RELATED EQUIPMENT AND COMPONENT CUTS TO LOCAL AHJ AND ARCHITECT.

**FIRE PROTECTION PIPING MATERIALS**

- UNDERGROUND FIRE LINE**  
DUCTILE IRON.
- BACKFLOW PREVENTER**  
DOUBLE CHECK BACKFLOW ASSEMBLY WITH TAMPER SWITCHES OR CHAIN AND LOCK PER LOCAL REQUIREMENTS, LOCATED AT THE CITY WATER MAIN, AS MANUFACTURED BY ZURN, AMES OR WATTS.
- RISER VALVE ASSEMBLY**  
VICTAULIC, TYCO OR RELIABLE.
- FIRE DEPARTMENT CONNECTION**  
REMOTE AT BACKFLOW PREVENTER.
- ABOVEGROUND SPRINKLER PIPING**  
MATERIALS: PIPING 2" AND SMALLER SCHEDULE 40 BLACK STEEL WITH SCREWED FITTINGS 2-1/2" AND LARGER BLACK STEEL THIN WALL OR SCHEDULE 10 WITH "FIRELOCK" VICTAULIC FITTINGS. ALL PIPING AND INSTALLATION METHODS SHALL COMPLY WITH NFPA 13.
- SPRINKLERS**  
QUICK RESPONSE, RECESSED, CONCEALED. IN AREAS WITH SUSPENDED CEILING TILES PROVIDE FLEXIBLE DROPS AS MANUFACTURED BY AQUAFLEX/VICTAULIC. SPRINKLERS SHALL BE AS MANUFACTURED BY VICTAULIC, TYCO, RELIABLE OR APPROVED EQUAL. USE AQUA FLEX SPRINKLERS IN SUSPENDED CEILING.
- SPRINKLER CONTRACTOR SHALL PROVIDE ELECTRIC BELL ON OUTSIDE WALL, FLOW SWITCHES AND TAMPER SWITCHES ON ALL VALVES. WIRING BY ELECTRICAL CONTRACTOR.

REVISION	DESCRIPTION	BY	DATE
APPROVED: CELSO ENOISO	ISSUED: 10/12/12	SCALE: NTS	FILE: DIR\FD-D1

FIRE PROTECTION GENERAL NOTES AND FIRE PROTECTION PIPING MATERIALS

New Mexico State University FD-D1

By	CHKD	Date	Description	Rev #
DIF	NJ	11/16/24	INITIAL SUBMITTAL	A
DIF	NJ	12/16/24	90% SUBMITTAL	B

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TORTUGAS TRAIL - LAS CRUCES, NM  
UTILITY DETAILS

MICHEL D. JOHNSON  
NEW MEXICO  
REGISTERED PROFESSIONAL ENGINEER

12/16/24

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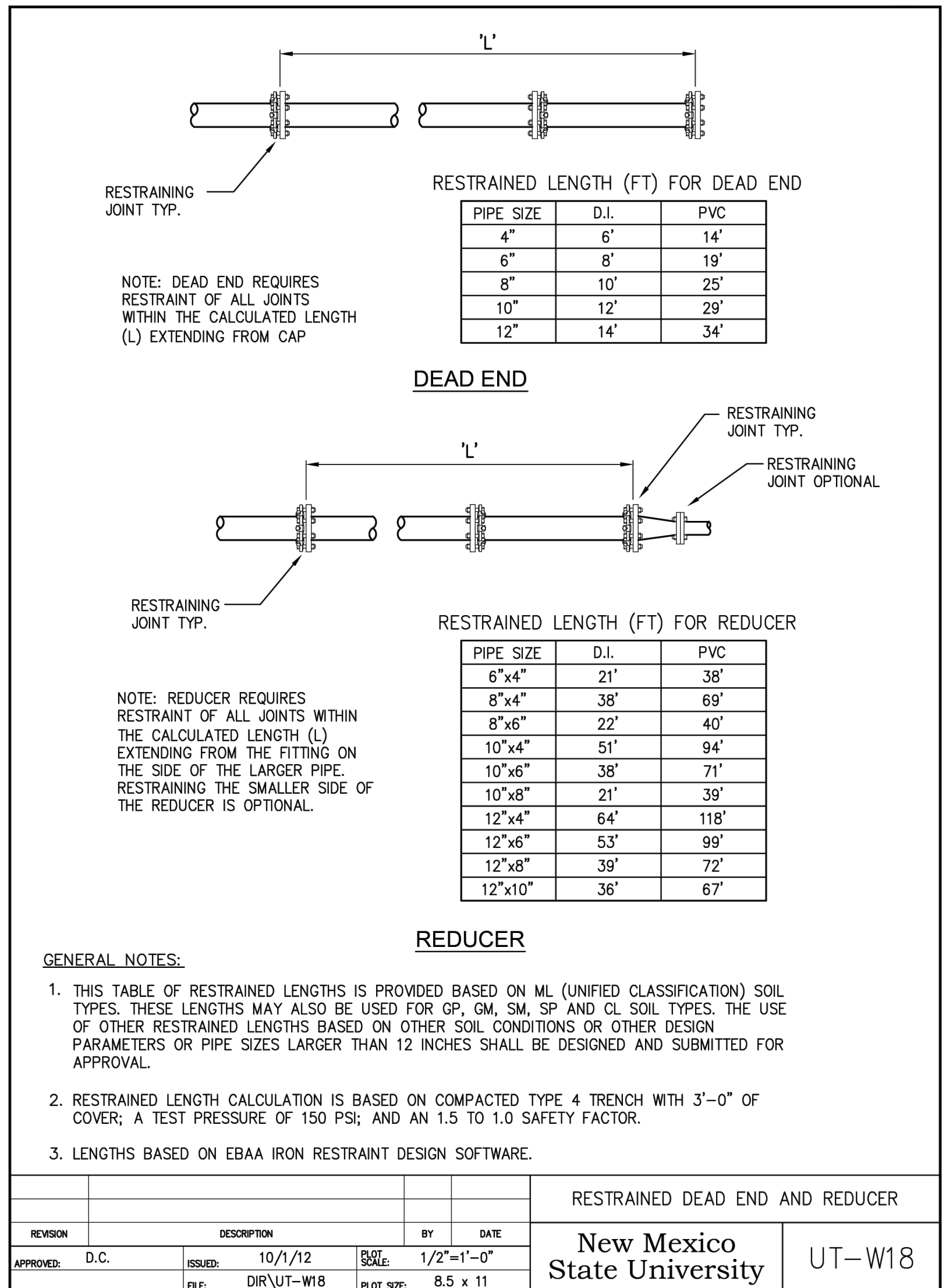
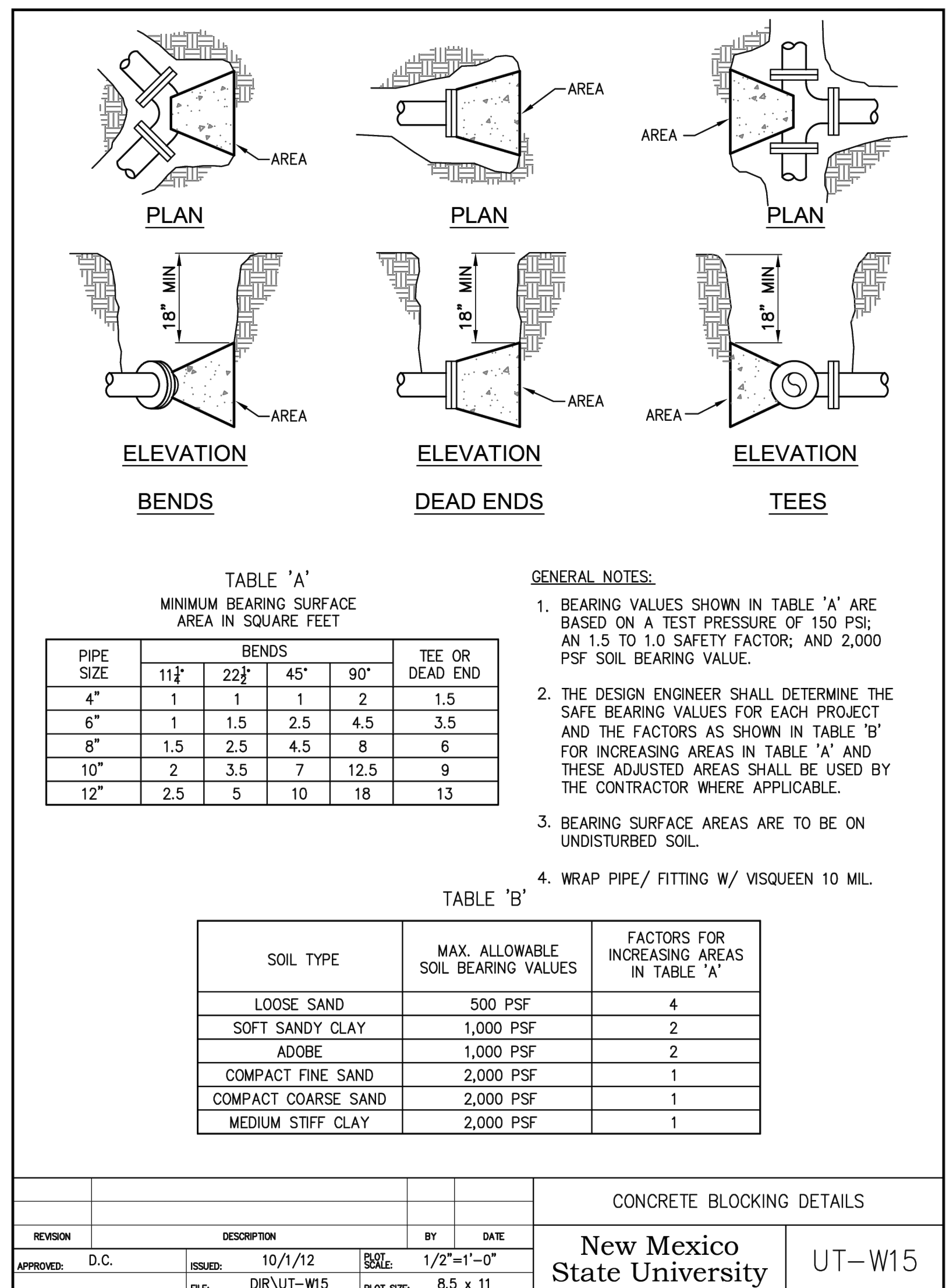
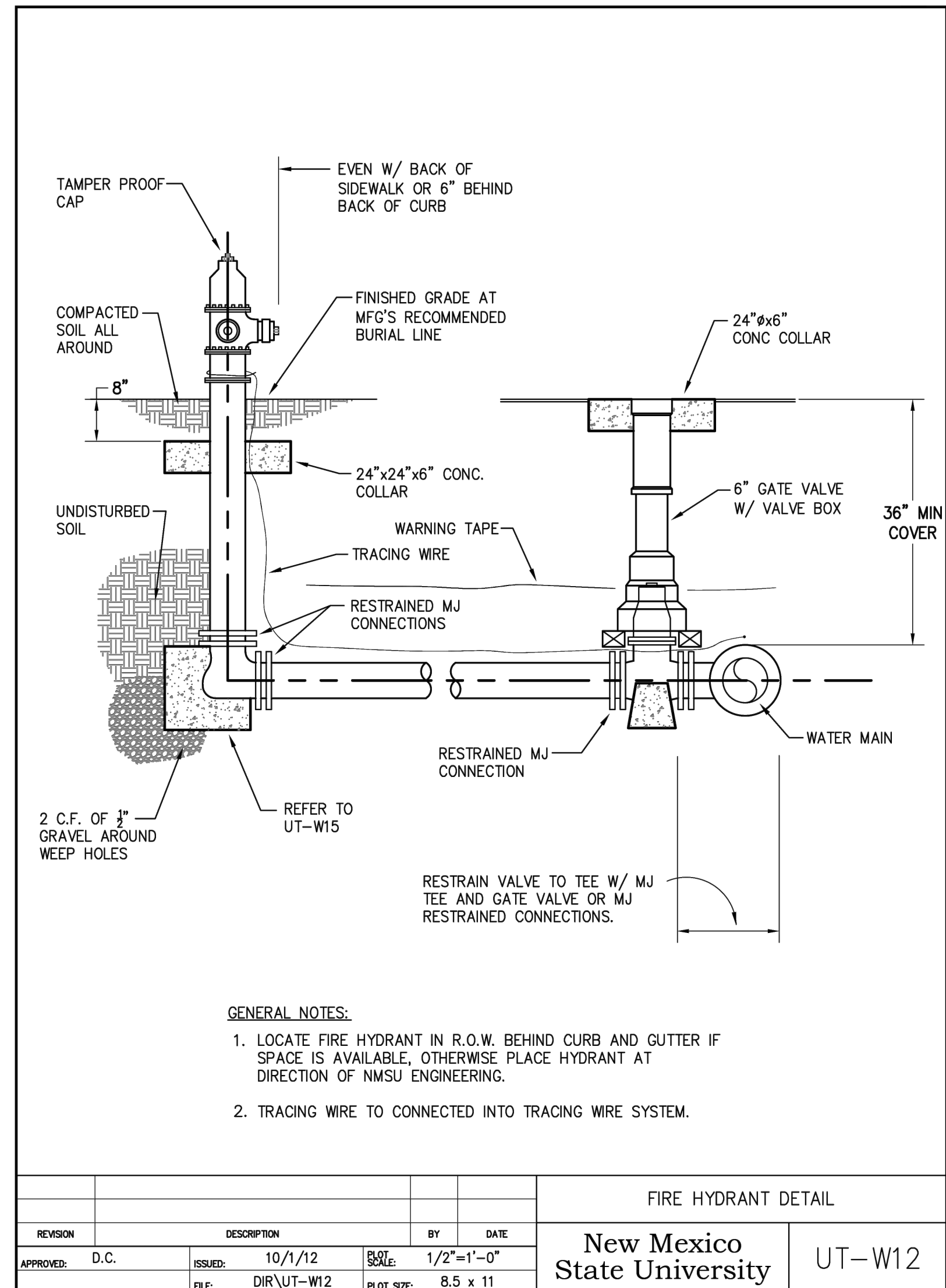
Designed	Drawn	Checked
MJ	DIF	MJ

Date: December 2024  
Scale: Horiz: AS SHOWN  
Vert: AS SHOWN  
Project No: 9331490  
Sheet: C403

To Request a Line Locate Dial 811  
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P:19-ASA DAC Emergency Mgmt Facility (9331490)\CAD\Civil\CONSTRUCTION DWGS\9331490 - UTILITY PLAN.dwg 2/16/2024 10:15 AM DIF

NOTE:  
ALL NYLOPLAST &  
CONTECH DETAILS  
ARE LOCATED ON  
SHEETS C601-C607



Rev #	Date	Description	By	CHKD
A	11/16/24	INITIAL SUBMITTAL	DIF	NJ
B	12/16/24	90% SUBMITTAL	DIF	NJ

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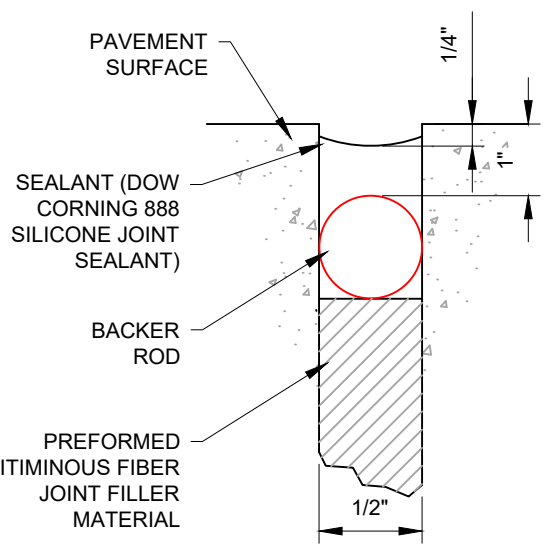
LAS CRUCES, NEW MEXICO  
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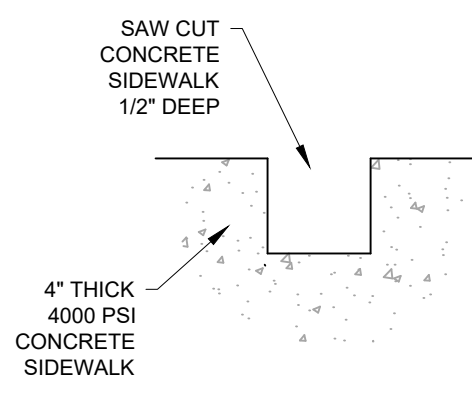
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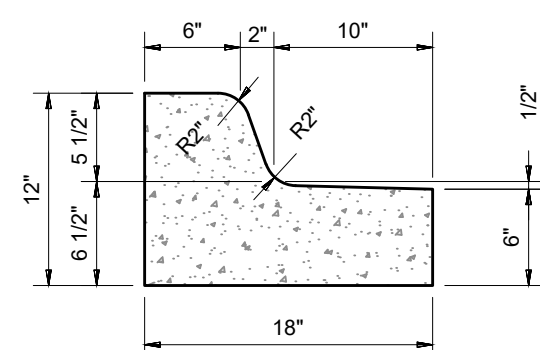
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MJ	DIF	MJ
Date:	December 2024	
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Project No:	9331490	
Sheet:	C404	



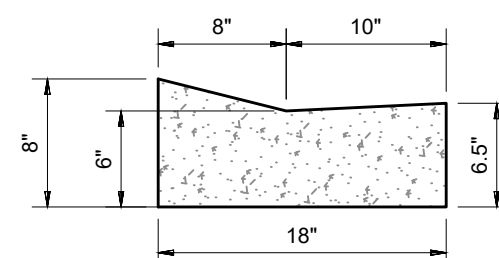
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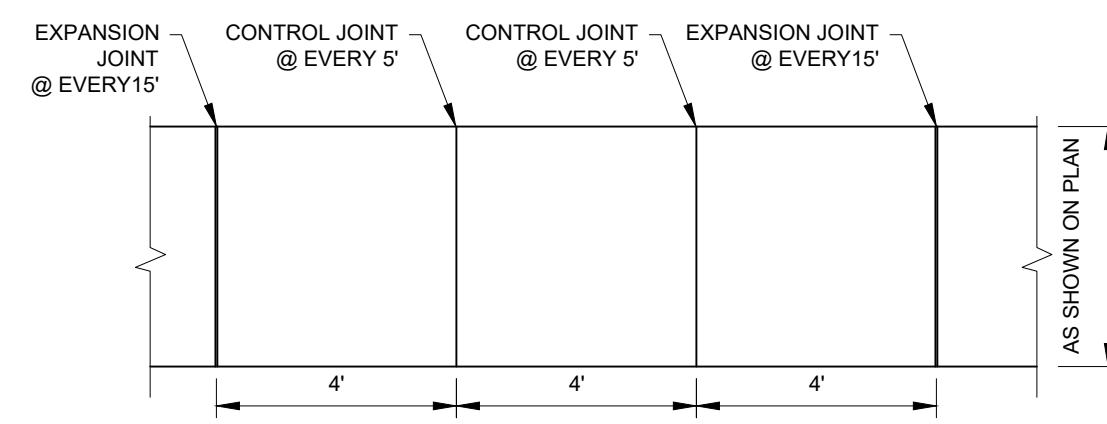
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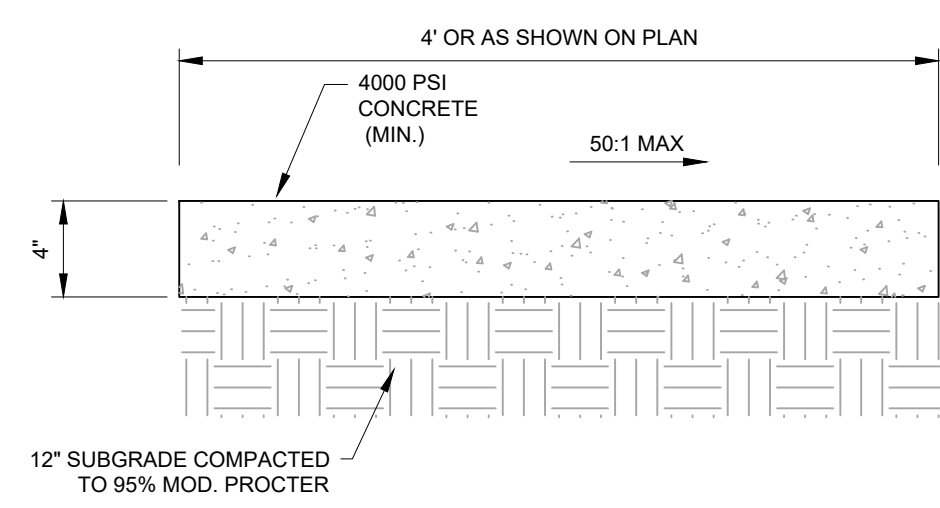
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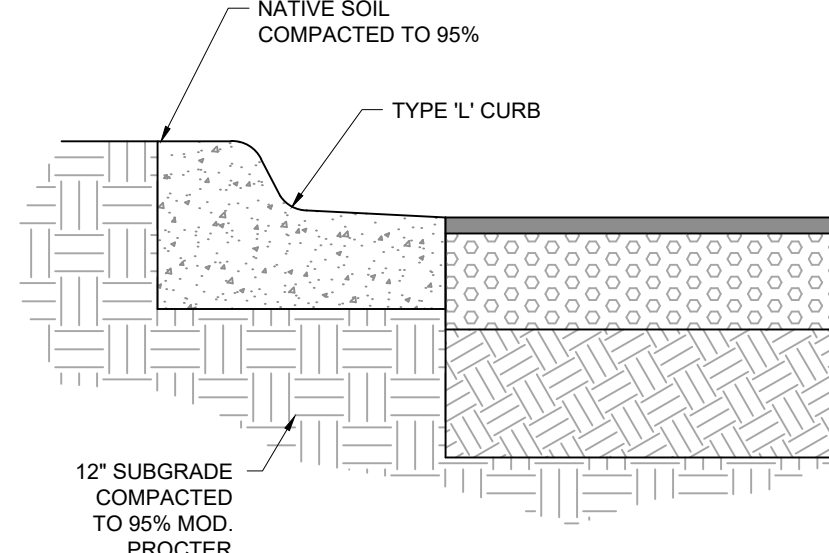
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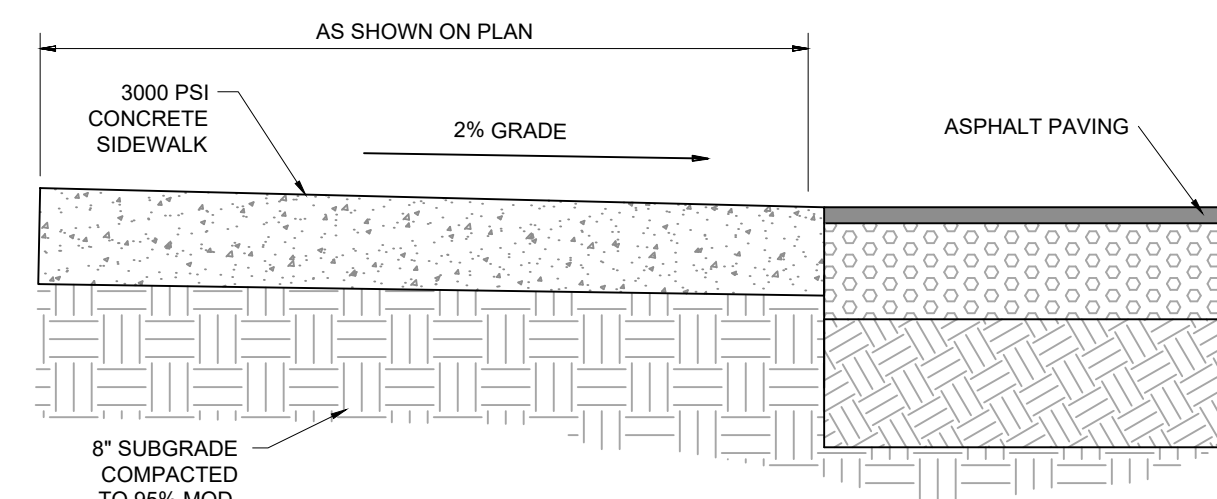
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SCALE: N.T.S.



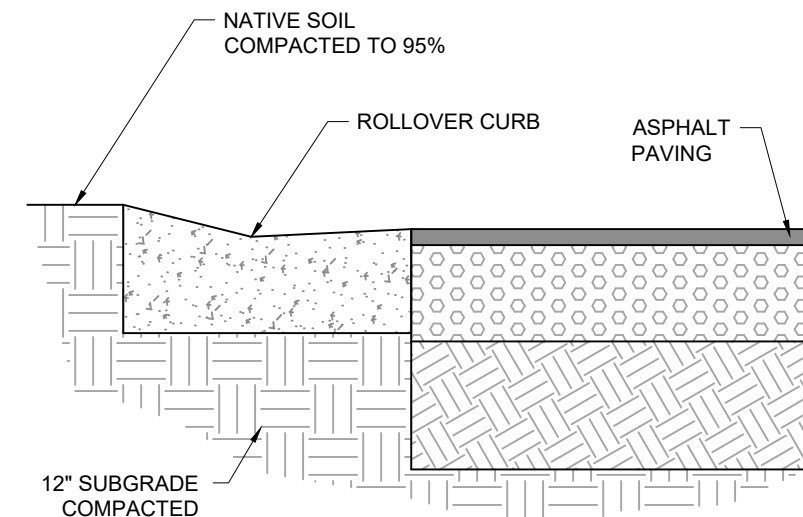
SIDEWALK DETAIL  
SCALE: N.T.S.



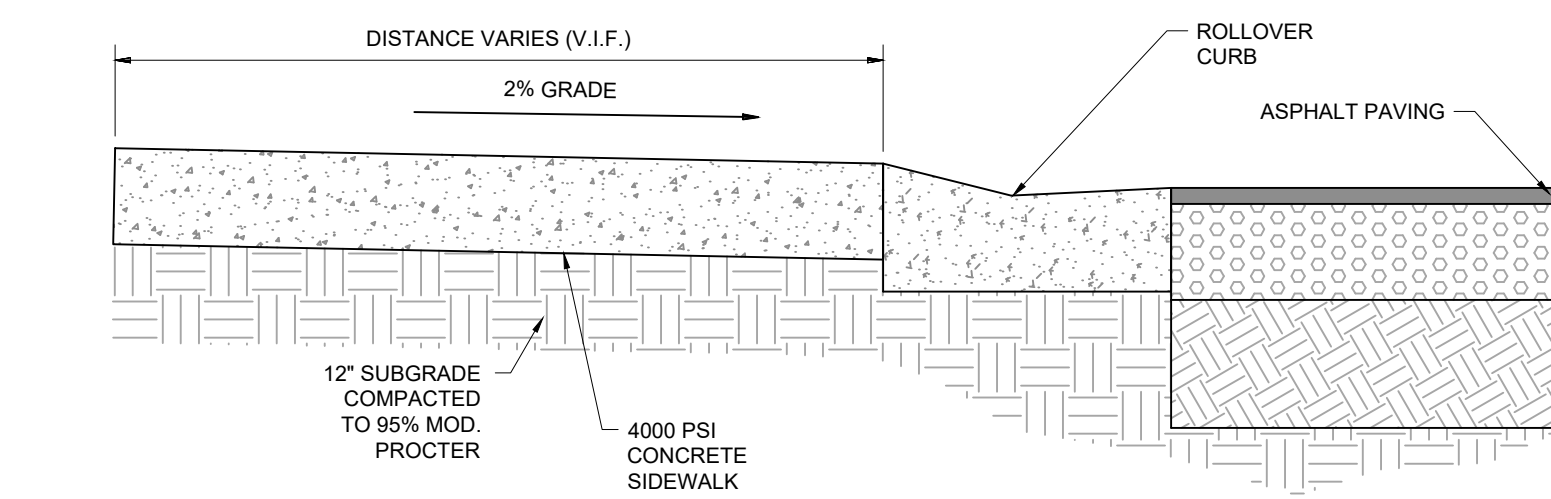
TYP. CURB SECTION  
SCALE: N.T.S.



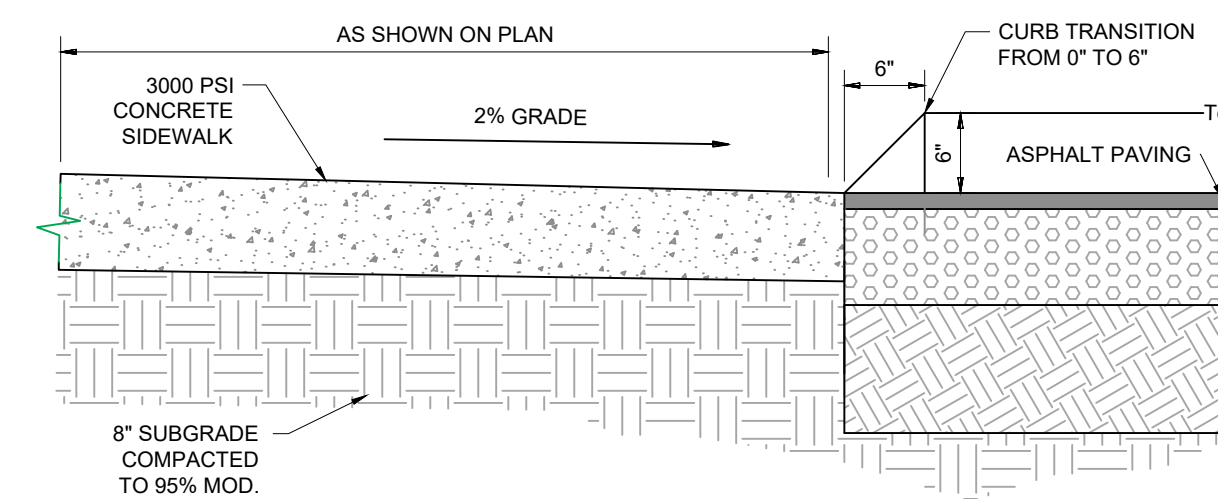
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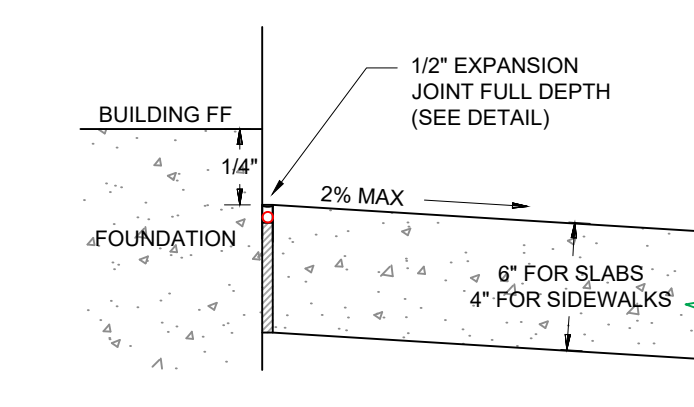
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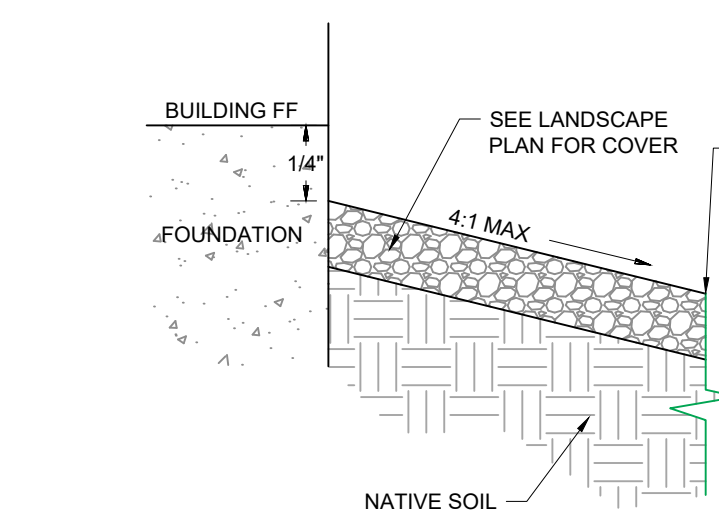
ROLLOVER CURB & SIDEWALK SECTION  
SCALE: N.T.S.



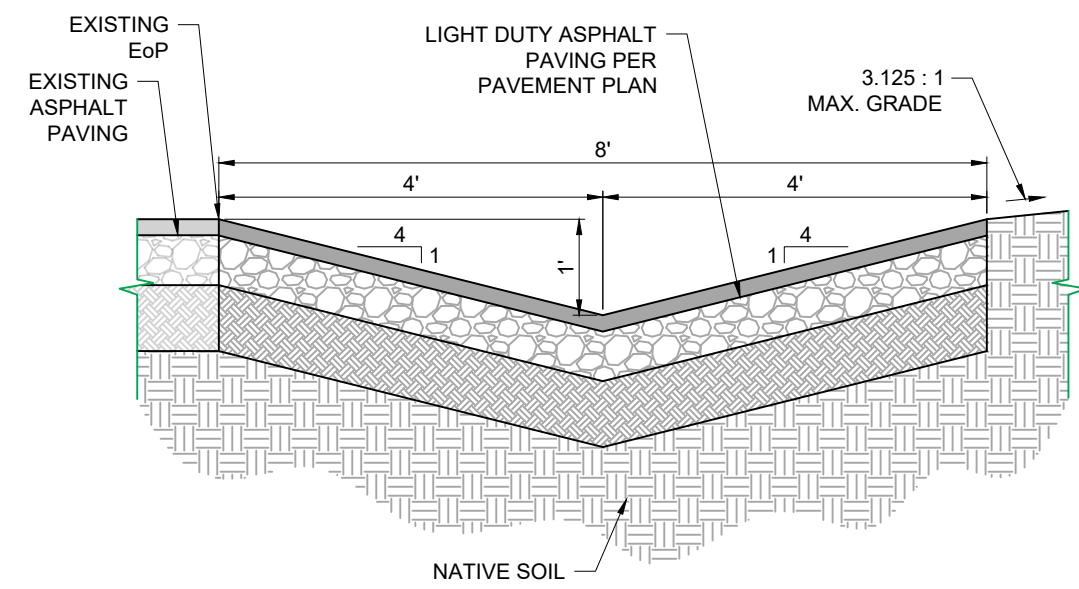
TYP. CURB TRANSITION  
SCALE: N.T.S.



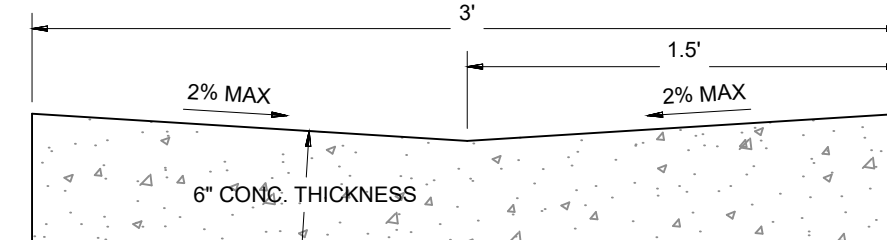
BUILDING & SIDEWALK JOINT  
SCALE: N.T.S.



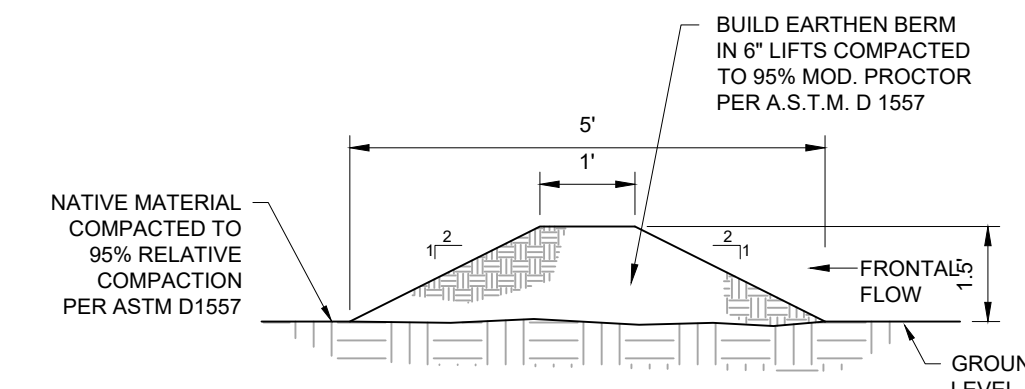
BUILDING/LANDSCAPE SECTION  
SCALE: N.T.S.



ASPHALT SWALE  
SCALE: N.T.S.

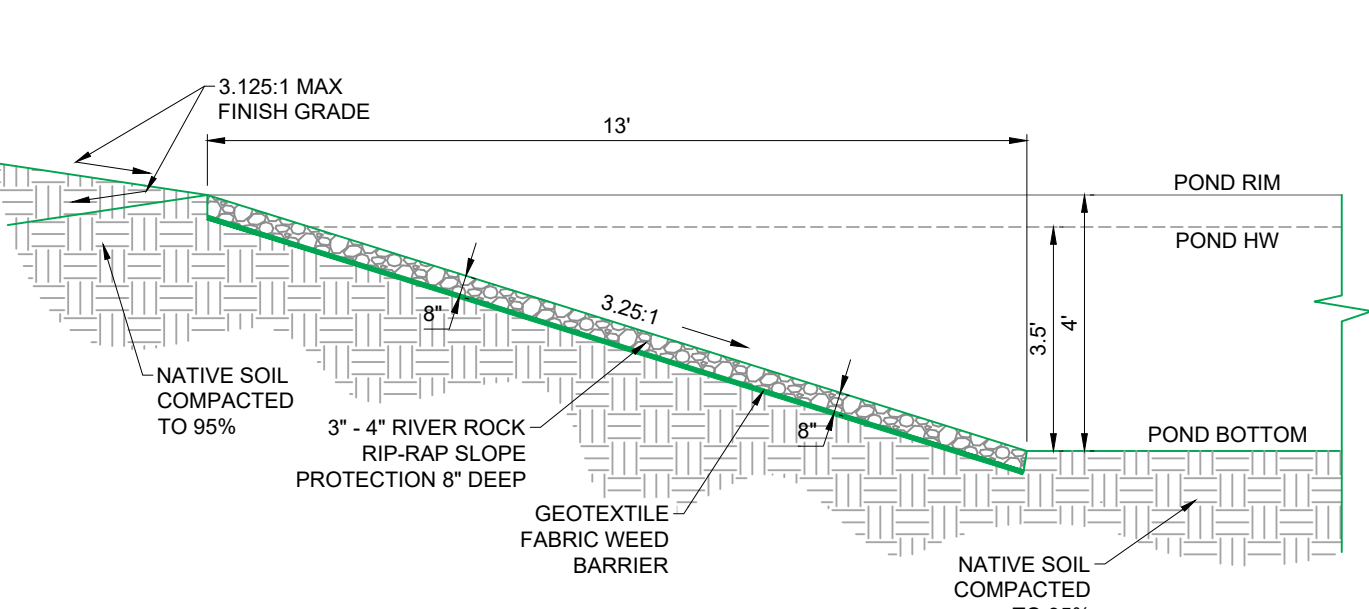


TYPE 'Q' VALLEY GUTTER  
SCALE: N.T.S.

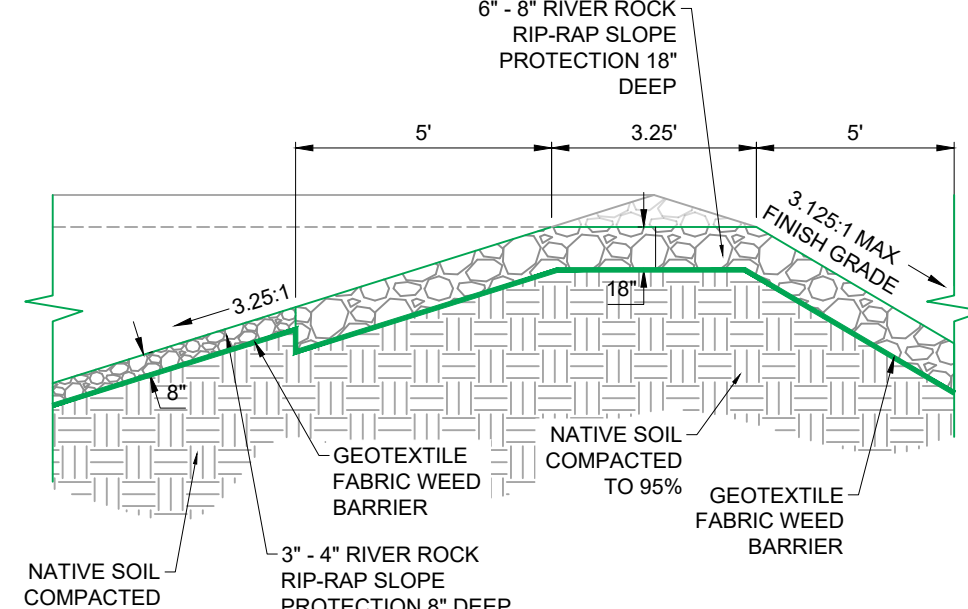


5' EARTHEN BERM  
SCALE: N.T.S.

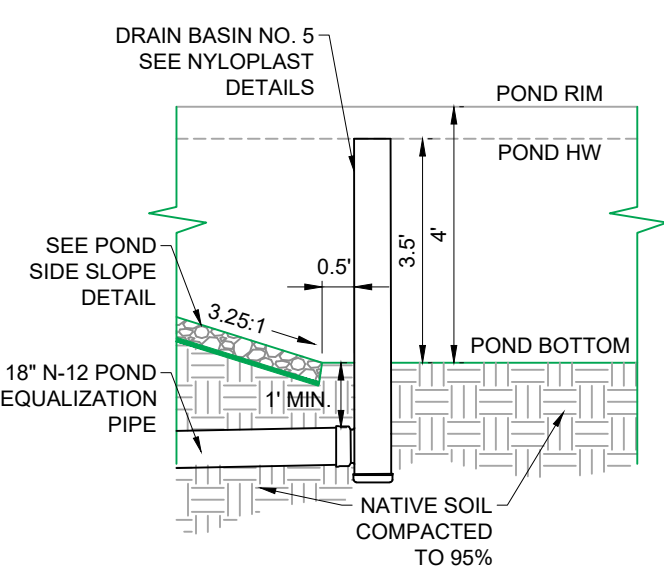
- NOTE:
- FOR USED WHERE NECESSARY ON EXTREMELY FLAT GRADES FOR DRAINAGE CONVEYANCE.
  - SLOPE OF GUTTER TO MATCH STREET GUTTER SECTION.
  - IN NO INSTANCE WILL THE SLOPE BE LESS THAN 2% VALLEY GUTTERS.



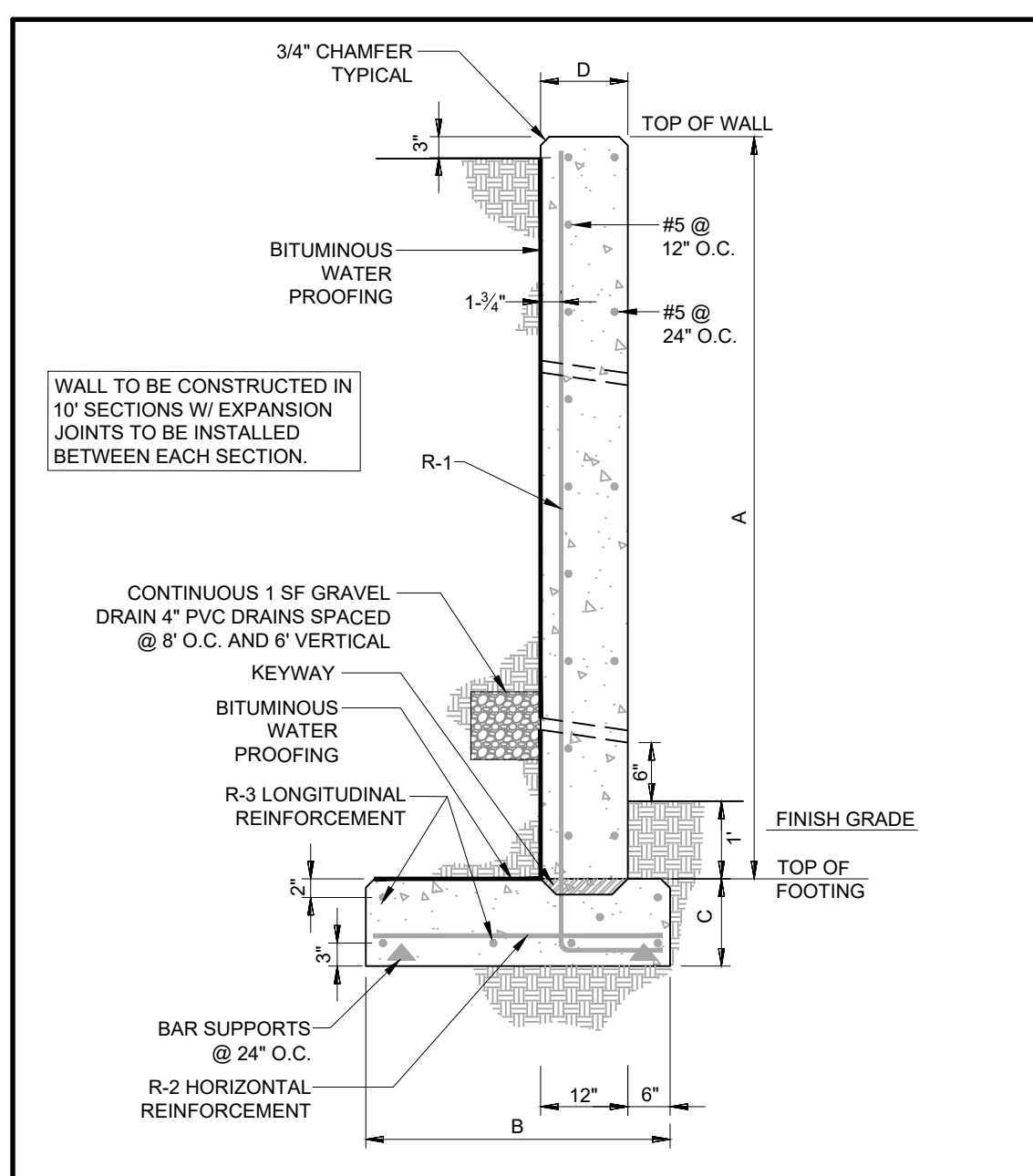
DRAINAGE POND SECTION  
SCALE: N.T.S.



DRAINAGE POND EXIT WEIR  
SCALE: N.T.S.



CATCH BASIN DETAIL  
SCALE: N.T.S.



CANTILEVER RETAINING WALL  
SCALE: N.T.S.

WALL HEIGHT	A	B	C	D	R-1	R-2	R-3
3'	3'-6"	3'-3"	1'-3"	12"	#5 @ 12" VERT	#5 @ 12" HORIZ	4 - #5 EVENLY SPACED
4'	4'-6"	4'-0"	1'-3"	12"	#5 @ 12" VERT	#5 @ 12" HORIZ	4 - #5 EVENLY SPACED
5'	5'-6"	4'-6"	1'-3"	12"	#5 @ 12" VERT	#5 @ 12" HORIZ	4 - #5 EVENLY SPACED
6'	6'-6"	5'-6"	1'-3"	12"	#5 @ 12" VERT	#5 @ 12" HORIZ	5 - #5 EVENLY SPACED

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NOTE: ALL NYLOPLAST & CONTECH DETAILS ARE LOCATED ON SHEETS C601-C607

To Request a Line Locate Dial 811  
New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.

Rev #	Date	By	Description
A	11/16/24	DIF	INITIAL SUBMITTAL
B	12/16/24	DIF	90% SUBMITTAL

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LAS CRUCES, NEW MEXICO  
DOÑA ANA COUNTY  
DOÑA ANA COUNTY OEM EMERGENCY OPERATIONS CENTER  
TORTUGAS TRAIL - LAS CRUCES, NM  
PROJECT DETAILS

MICHAEL D. JOHNSON  
NEW MEXICO  
REGISTERED PROFESSIONAL ENGINEER

12/16/24  
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED.  
Designed: MJ  
Drawn: DIF  
Checked: MJ  
Date: December 2024  
Scale: Horiz: AS SHOWN  
Vert: AS SHOWN  
Project No: 9331490  
Sheet: C600

**RECOMMENDED MINIMUM TRENCH WIDTHS**

PIPE DIAM.	MIN. TRENCH WIDTH
4" (100mm)	21" (533mm)
6" (150mm)	23" (584mm)
8" (200mm)	26" (660mm)
10" (250mm)	28" (711mm)
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

**MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS\***

PIPE DIAM.	SURFACE LEVEL LOADING CONDITION	
	H-25 (300mm - 1200mm)	HEAVY CONSTRUCTION (75T AXLE LOAD)†
12" - 48"	12"	12"
60"	24"	60"
12" (1500mm)	8 (0.2m)	152 (4.6m)

\*VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER SEE BACKFILL REQUIREMENTS IN NOTE 6.

**MAXIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS**

PIPE DIAM.	CLASS		
	CLASS I	CLASS II	CLASS III
4"	37 (1.0m)	18 (0.5m)	90% (2.5m)
6"	44 (1.3m)	20 (0.6m)	90% (2.5m)
8"	32 (0.9m)	15 (0.4m)	22 (0.7m)
10"	38 (1.1m)	18 (0.5m)	26 (0.8m)
12"	35 (1.0m)	17 (0.5m)	24 (0.7m)
15"	38 (1.1m)	17 (0.5m)	25 (0.8m)
18"	36 (1.0m)	17 (0.5m)	24 (0.7m)
24"	28 (0.8m)	13 (0.4m)	20 (0.6m)
30"	28 (0.8m)	13 (0.4m)	20 (0.6m)
36"	28 (0.8m)	13 (0.4m)	20 (0.6m)
42"	23 (0.7m)	11 (0.3m)	16 (0.5m)
48"	25 (0.7m)	11 (0.3m)	17 (0.5m)
60"	25 (0.7m)	11 (0.3m)	17 (0.5m)

**FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12. LOAD RESISTANCE FACTOR DESIGN (LRF) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS: NO HYDROSTATIC PRESSURE. UNIT WEIGHT OF SOIL (γ) = 120 PCF**

PIPE DIAM.	MIN. TRENCH WIDTH	MIN. COVER
4"	21"	12"
6"	23"	12"
8"	26"	12"
10"	28"	12"
12"	30"	12"
15"	34"	12"
18"	39"	12"
24"	48"	12"
30"	56"	12"
36"	64"	12"
42"	72"	12"
48"	80"	12"
60"	96"	12"

**TRENCH INSTALLATION DETAIL (N-12 PER AASHTO)**

**NOTES:**

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III, THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4" - 24" (100mm-600mm); 6" (150mm) FOR 30" - 60" (750mm-1500mm).
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING TO THE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR TRAFFIC APPLICATIONS WITH LESS THAN FOUR FEET OF COVER, EMBEDMENT OF THE PIPE SHALL BE USING ONLY A CLASS I OR CLASS II BACKFILL.

**ADVANCED DRAINAGE SYSTEMS, INC. (ADS) HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DIRECT THE CONTRACTOR AND IS NOT A SUBSTITUTE FOR THE ENGINEER'S DESIGN RESPONSIBILITY. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC TO THIS PROJECT. THE CONTRACTOR SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEET OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.**

**REVISIONS:**

REV.	DESCRIPTION	BY	DATE	CHKD.
1	INITIAL BACKFILL	JAB	04/02/20	
2	TRENCH INSTALLATION DETAIL (N-12 PER AASHTO)	MAKDDVY		

**ADS** 4640 TRULEMAN BLVD HULLAND, OHIO 43026

**3139 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com**

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**N-12° PLAIN END PIPE (PER AASHTO) SPECIFICATION**

**Scope**  
This specification describes 4- through 60-inch (100 to 1500 mm) N-12 plain end pipe (per AASHTO) for use in gravity-flow land drainage applications.

**Pipe Requirements**  
N-12 plain end pipe (per AASHTO) shall have a smooth interior and annular exterior corrugations.  

- 4- through 10-inch (100 to 250 mm) pipe shall meet AASHTO M252, Type S or SP.
- 12- through 60-inch (300 to 1500 mm) pipe shall meet AASHTO M294, Type S or SP, or ASTM F2306.
- Manning's "n" value for use in design shall be 0.012.

**Joint Performance**  
Pipe shall be joined with coupling bands covering at least two full corrugations on each end of the pipe. Standard connections shall meet or exceed the soil-tight requirements of AASHTO M252, AASHTO M294, or ASTM F2306.

**Gasketed connections** shall incorporate a closed-cell synthetic expanded rubber gasket meeting the requirements of ASTM D1556 Grade 2A2. Gaskets, when applicable, shall be installed by the pipe manufacturer.

**Fittings**  
Fittings shall conform to AASHTO M252, AASHTO M294, or ASTM F2306.

**Material Properties**  
Material for pipe and fitting production shall be high density polyethylene conforming with the minimum requirements of cell classification 424420C for 4- through 10-inch (100 to 250 mm) diameters, and 435400C for 12- through 60-inch (300 to 1500 mm) diameters, as defined and described in the latest version of ASTM D3350, except that carbon black content should not exceed 4%. The 12- through 60-inch (300 to 1500mm) pipe material shall comply with the notched constant ligament-stress (NCLS) test as specified in Sections 9.5 and 5.1 of AASHTO M294 and ASTM F2306 respectively.

**Installation**  
Installation shall be in accordance with ASTM D2321 and ADS recommended installation guidelines, with the exception that minimum cover in trafficked areas for 4- through 48-inch (100 to 1200 mm) diameters shall be one foot (0.3 m) and for 60-inch (1500 mm) diameter the minimum cover shall be 2 ft. (0.6 m) in single run applications. Backfill for minimum cover situations shall consist of Class 1 (compacted), Class 2 (minimum 90% SPD) or Class 3 (minimum 95%) material. Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.01. Contact your local ADS representative or visit our website at [www.adspipe.com](http://www.adspipe.com) for a copy of the latest installation guidelines.

**Build America, Buy America (BABA)**  
N-12 Plain End pipe (per AASHTO), manufactured in accordance with AASHTO M252, AASHTO M294 or ASTM F2306, complies with the requirements in the Build America, Buy America (BABA) Act.

**Pipe Dimensions**

PIPE DIAM.	4"	6"	8"	10"	12"	15"	18"	24"	30"	36"	42"	48"	60"
OD (mm)	100	150	200	250	300	375	450	600	750	900	1050	1200	1500
Wt. (lb/ft)	4.3	6.4	8.1	11.4	14.2	18	22	28	36	42	48	54	67
Wt. (kg/m)	122	175	231	290	369	467	558	711	894	1067	1219	1372	1702

\*Pipe O.D. values are provided for reference purposes only; values stated for 12 through 60 inch are 1 inch. Contact a sales representative for exact values.  
†Adaptations available with or without perforations.

**Section 2722**

**Engineered Surface Drainage Products**

**GENERAL**  
PVC surface drainage inlets shall be of the inline drain type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

**MATERIALS**  
The inline drain required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the furnished configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the inline drain body by use of a swage mechanical joint. The raw material used to manufacture the pipe stock that is used to manufacture the inline drain body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates furnished for all surface drainage inlets shall be ductile iron grates for sizes 8", 10", 12", 15", 18", 24" and 30" shall be made specifically for each fitting so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for inline drains shall be capable of supporting H-20 wheel loading for traffic areas or H-10 loading for pedestrian areas. 12" and 15" square grates will be hinged to the frame using pins. Metal used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05 for ductile iron. Grates shall be provided painted black.

**INSTALLATION**  
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For H-20 load rated installations, a concrete ring will be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

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**8 IN - 30 IN INLINE DRAIN SPECIFICATIONS**

DWG NO. 7003-110-009 REV H

**0899CGBL**

**14-20 X 1 1/4" LONG FLAT HEAD CAP SCREW (ALLEN HEAD) BRASS**

**8" BRONZE GRATE**

**8" DUCTILE IRON GRATE LOCK BAR**

**1/4-20 X 1 1/2" LONG SOCKET HEAD CAP SCREWS (ALLEN HEAD) BLACK STEEL 2 PLACES**

**DRILL Ø 281 HOLES THRU 2 PLACES**

**WATER TIGHT JOINT (CORRUGATED HDPE SHOWN)**

**4" ADAPTER**

**1 1/2" ADAPTER**

**GRATE OPTIONS**

LOAD RATING	PART #	DRAWING #
STANDARD	0899CGCS	7001-110-194
SOLID COVER	0899CGCS	7001-110-195
BRONZE	0899CGCS	7001-110-196
DOME	0899CGCS	7001-110-197

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**8 IN BRONZE LOCKING GRATE ASSEMBLY**

DWG NO. 7001-110-194 REV B

**NYLOPLAST 8" INLINE DRAIN: 2708AG \_\_ X**

**7.50"**

**(1) DUCTILE IRON GRATE**

**(2) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADSHANCOR SINGLE WALL), PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC**

**4" ADAPTER**

**WATER TIGHT JOINT (CORRUGATED HDPE SHOWN)**

**7.25"**

**(1) DUCTILE IRON GRATE**

**(2) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADSHANCOR SINGLE WALL), PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC**

**6" ADAPTER**

**5.25"**

**(1) DUCTILE IRON GRATE**

**(2) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADSHANCOR SINGLE WALL), PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC**

**GRATE OPTIONS**

LOAD RATING	PART #	DRAWING #
PEDESTRIAN/STANDARD	0899CGCS	7001-110-194
SOLID COVER	0899CGCS	7001-110-195
BRONZE	0899CGCS	7001-110-196
DOME	0899CGCS	7001-110-197

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**8 IN INLINE DRAIN DESIGN DETAILS**

DWG NO. 7003-110-000 REV G

**NYLOPLAST 8" INLINE DRAIN: 2708AG \_\_ X**

**(1) DUCTILE IRON GRATE**

**(2)**

**CONCRETE POUR RING**

**CONCRETE WALKWAY OR DECK**

**WATER TIGHT JOINT (CORRUGATED HDPE SHOWN)**

**(3) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 8" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADSHANCOR SINGLE WALL, N-12 PVC), PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC (CORRUGATED HDPE SHOWN)**

**INVERT ACCORDING TO PLANS/TAKE OFF**

**THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.**

**GRATE OPTIONS**

LOAD RATING	PART #	DRAWING #
PEDESTRIAN/STANDARD	0899CGCS	7001-110-194
SOLID COVER	0899CGCS	7001-110-195
BRONZE	0899CGCS	7001-110-196
DOME	0899CGCS	7001-110-197

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**8 IN INLINE DRAIN QUICK SPEC INSTALLATION DETAIL**

DWG NO. 7003-110-003 REV F

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**12/16/24**

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**Designed: MJ Draw: DIF Checked: MJ**

**Date: December 2024**

**Scale: Horiz: AS SHOWN Vert: AS SHOWN**

**Project No: 9331490**

**Sheet: C601**

**To Request a Line Locate Dial 811**

**New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.**

**RESOURCES FOR DAMAGE PREVENTION**

**811** Professional Resources for Damage Prevention

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**P19-ASA DAC Emergency Mgmt Facility (9331490)CAD/Civil/CONSTRUCTION DWGS/9331490 - PROJECT DETAILS.dwg/2716/2024 10:04 AM DIF**

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**SMA**

**LAS CRUCES, NEW MEXICO**

**DOÑA ANA COUNTY OEM EMERGENCY OPERATIONS CENTER**  
**TORTUGAS TRAIL - LAS CRUCES, NM**  
**PROJECT DETAILS**

**MICHEL D. JOHNSON**  
NEW MEXICO  
REGISTERED PROFESSIONAL ENGINEER

**By: CHKD**  
**DIF**  
**NU**

**Description**  
**INITIAL SUBMITTAL**  
**90% SUBMITTAL**

**Rev #**  
**Date**  
**1/16/24**  
**12/16/24**

**1 OF 1**

PROJECT INFORMATION	
ALLIED PRODUCT MANAGER:	
ADS SALES REP:	
PROJECT NO:	9331490



DAC OEM

LAS CRUCES, NM

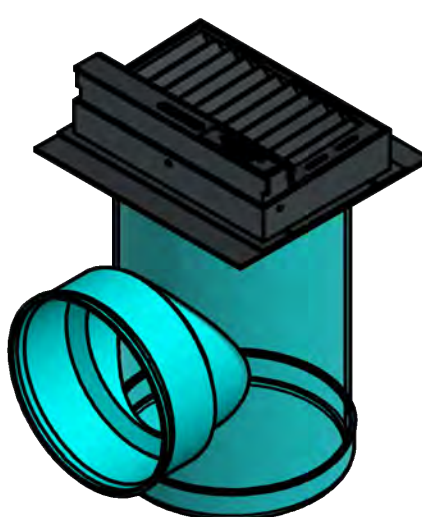
Engineered Surface Drainage Products

**GENERAL**  
PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

**MATERIALS**  
The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

**INSTALLATION**  
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.



ISOMETRIC VIEW

STUB 1

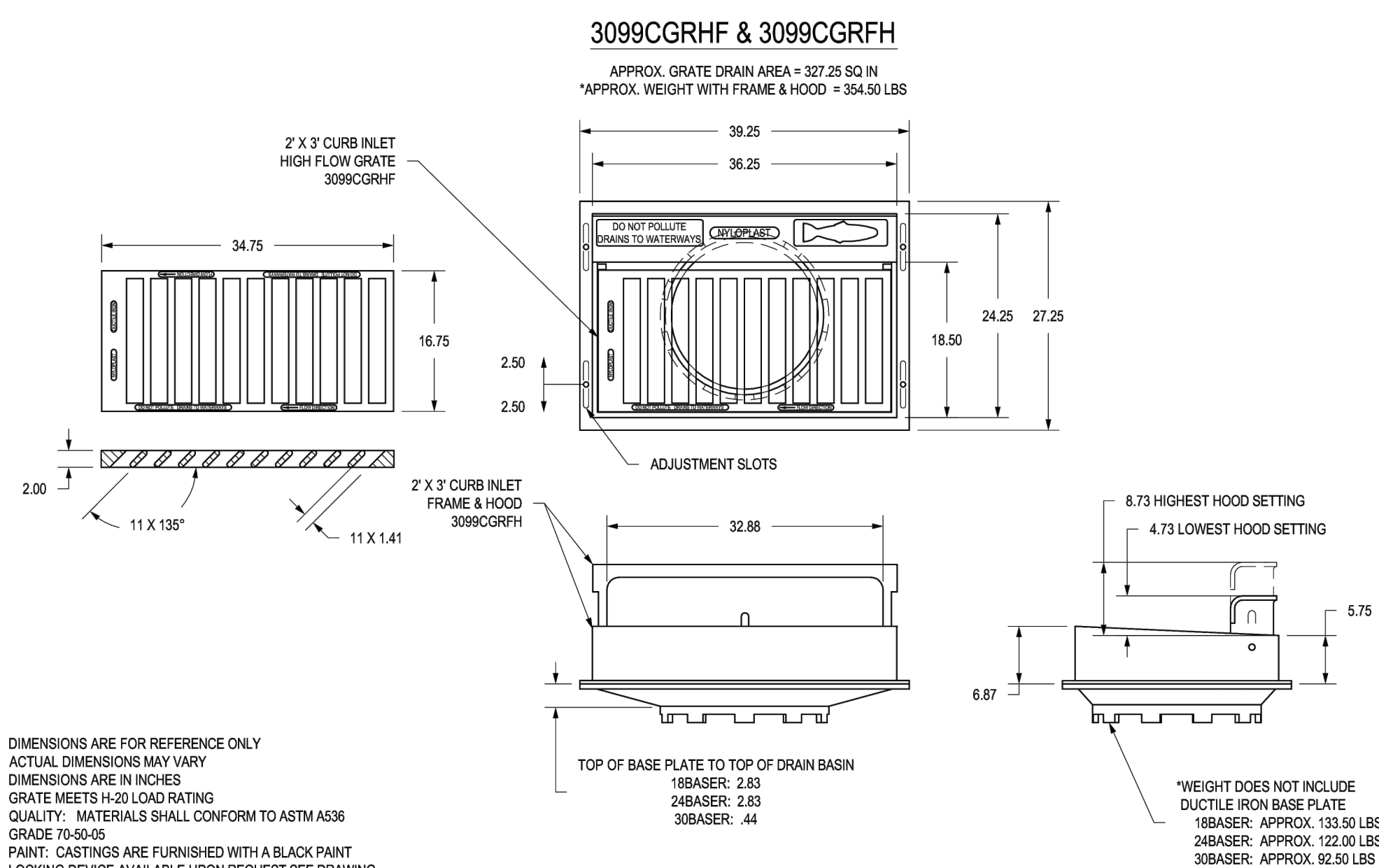


PLAN VIEW

STUB 1



PLAN VIEW - NO CASTING

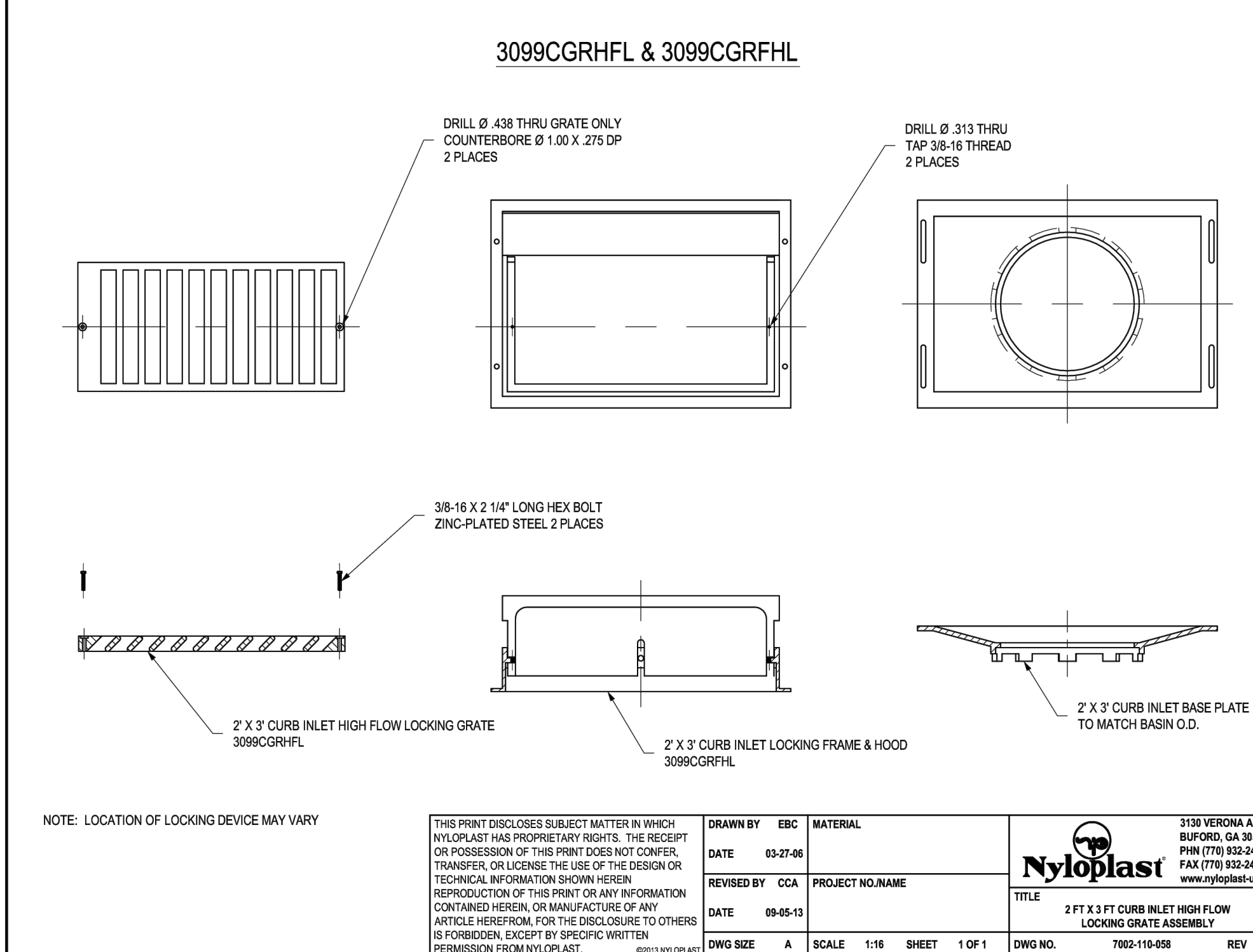


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PROJECT NAME:	DAC OEM	PROJECT LOCATION:	LAS CRUCES, DONA ANA COUNTY, NM
STRUCTURE NO./NAME:	DRAIN BASIN NO. 1	DATE:	11/13/2024
# OF SHEETS	#	# OF SHEETS	#

DRWN BY	EBG	MATERIAL	DUCTILE IRON
DATE	04-10-04	PROJECT NO./NAME	
REVISED BY	CCA	DATE	09-05-13
DWG SIZE	A	SCALE	1:16
SHEET	1 OF 1	DWG NO.	7002-110-047
REV	D		



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PROJECT NAME:	DAC OEM	PROJECT LOCATION:	LAS CRUCES, DONA ANA COUNTY, NM
STRUCTURE NO./NAME:	DRAIN BASIN NO. 2	DATE:	11/13/2024
# OF SHEETS	#	# OF SHEETS	#

DRWN BY	EBG	MATERIAL	DUCTILE IRON
DATE	04-10-04	PROJECT NO./NAME	
REVISED BY	CCA	DATE	09-05-13
DWG SIZE	A	SCALE	1:16
SHEET	1 OF 1	DWG NO.	7002-110-047
REV	D		

By: CHKD  
DIF NJ  
DIF NJ  
Description: INITIAL SUBMITTAL  
90% SUBMITTAL

Date: 11/16/24  
12/16/24

Rev # A B

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DONA ANA COUNTY  
LAS CRUCES, NEW MEXICO  
DONA ANA COUNTY OEM EMERGENCY OPERATIONS CENTER  
TORTUGAS TRAIL - LAS CRUCES, NM  
PROJECT DETAILS

MECHEL D. JOHNSON  
NEW MEXICO  
REGISTERED PROFESSIONAL ENGINEER

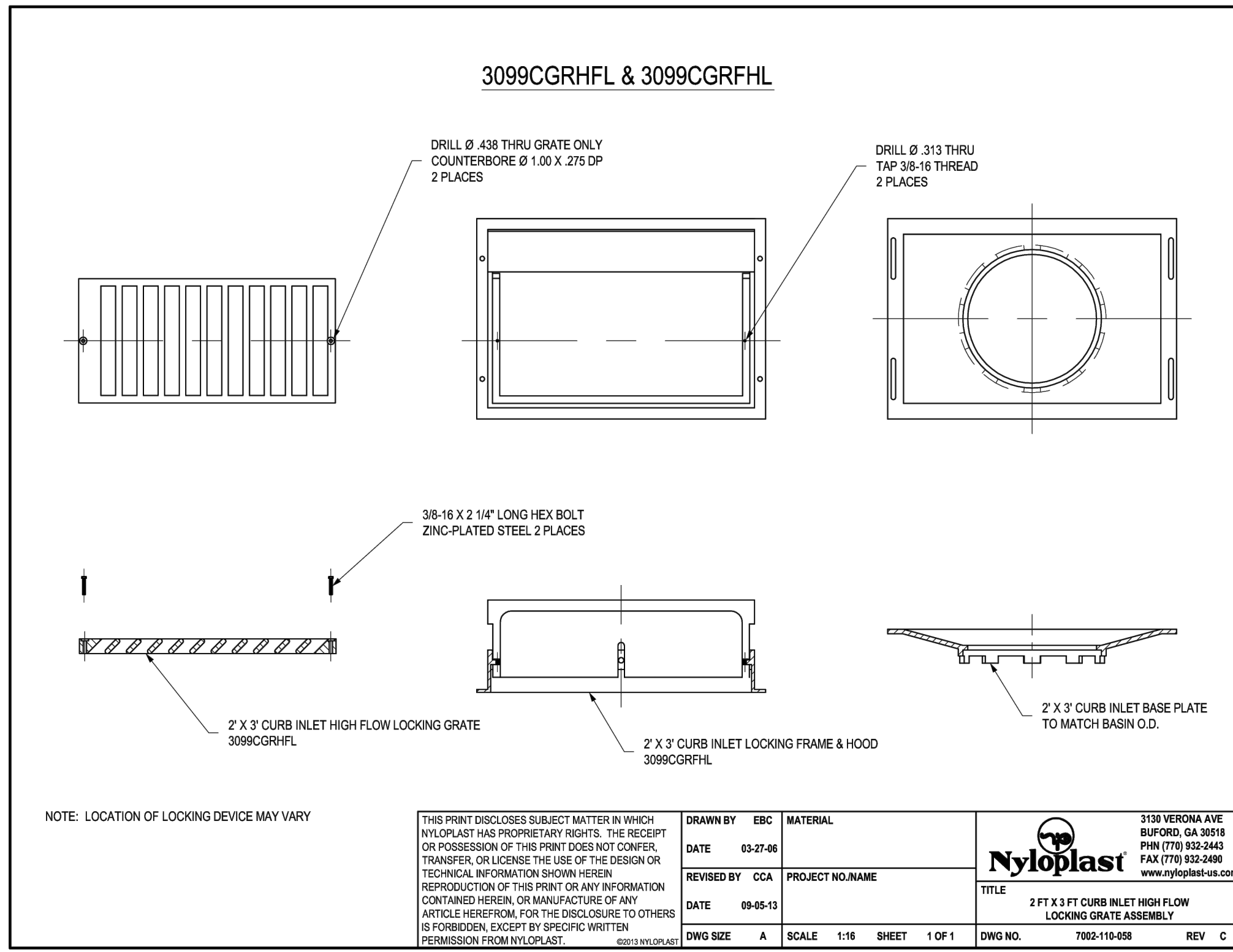
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Professional Resources for Damage Prevention

To Request a Line Locate Dial 811

New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.

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Designed: MJ	Drawn: DIF	Checked: MJ
Date: December 2024	Scale: Horiz: AS SHOWN	Vert: AS SHOWN
Project No: 9331490	Sheet: C602	



DATE	03-27-06
REVISION	CCA
DATE	09-05-13

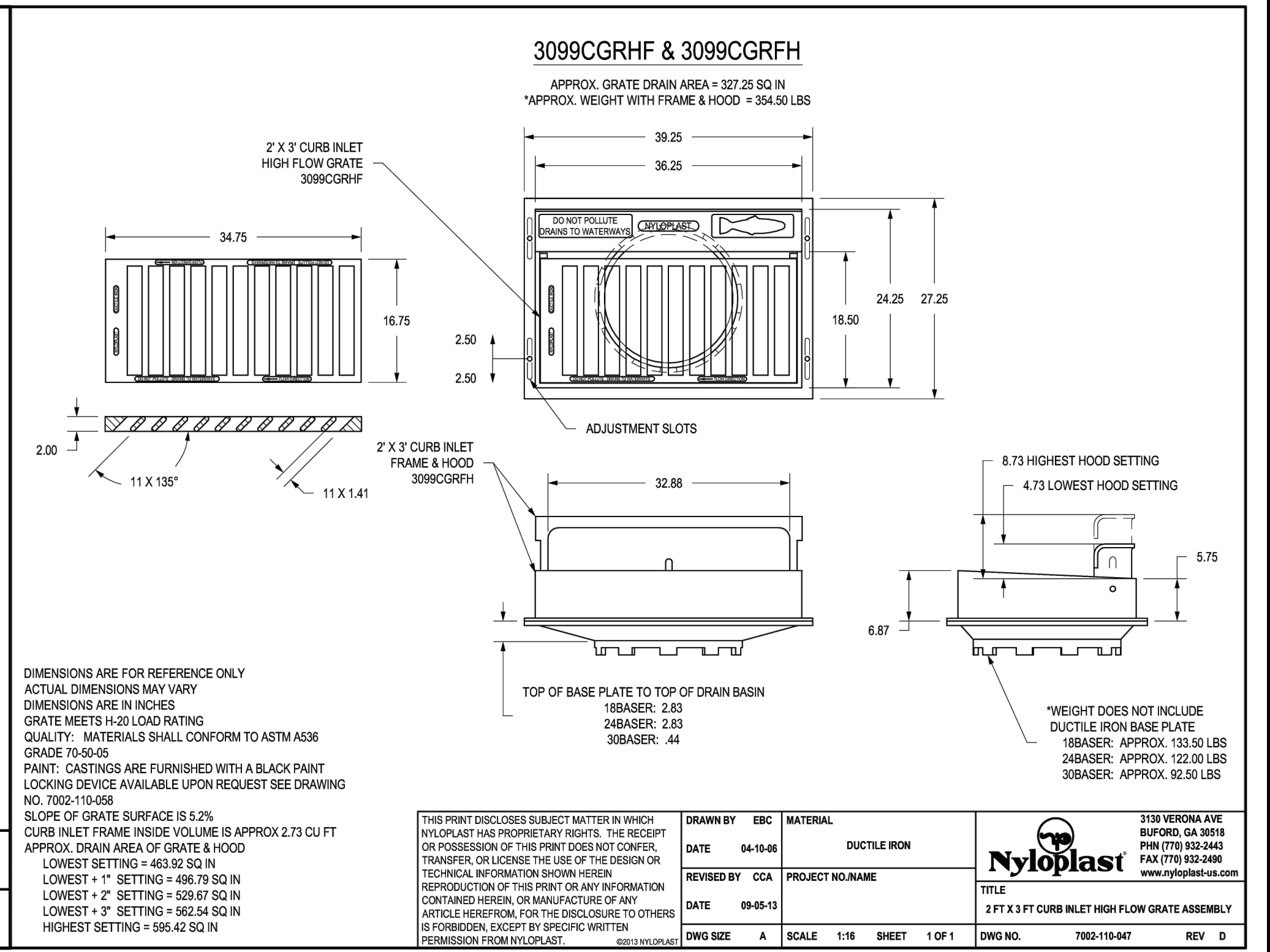
DRAWN BY	EBG	MATERIAL	DUCTILE IRON
DATE	03-27-06	PROJECT NO./NAME	
REVISION	CCA	PROJECT NO./NAME	
DATE	09-05-13	DATE	09-05-13
DWG SIZE	A	SCALE	1:16
SHEET	1 OF 1	DWG NO.	7002-110-058
REV	C		

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www.nyloplast-us.com

**ADS Nyloplast**  
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PHN (770) 932-2443  
FAX (770) 932-2490

PROJECT NAME:	DAC OEM
PROJECT LOCATION:	LAS CRUCES, DONA ANA COUNTY, NM
STRUCTURE NO./NAME:	DRAIN BASIN NO. 3
DATE:	11/13/2024
# SHEET	OF #

DRAWN BY	EBG	MATERIAL	DUCTILE IRON
DATE	04-10-06	PROJECT NO./NAME	
REVISION	CCA	PROJECT NO./NAME	
DATE	09-05-13	DATE	09-05-13
DWG SIZE	A	SCALE	1:16
SHEET	1 OF 1	DWG NO.	7002-110-047
REV	D		



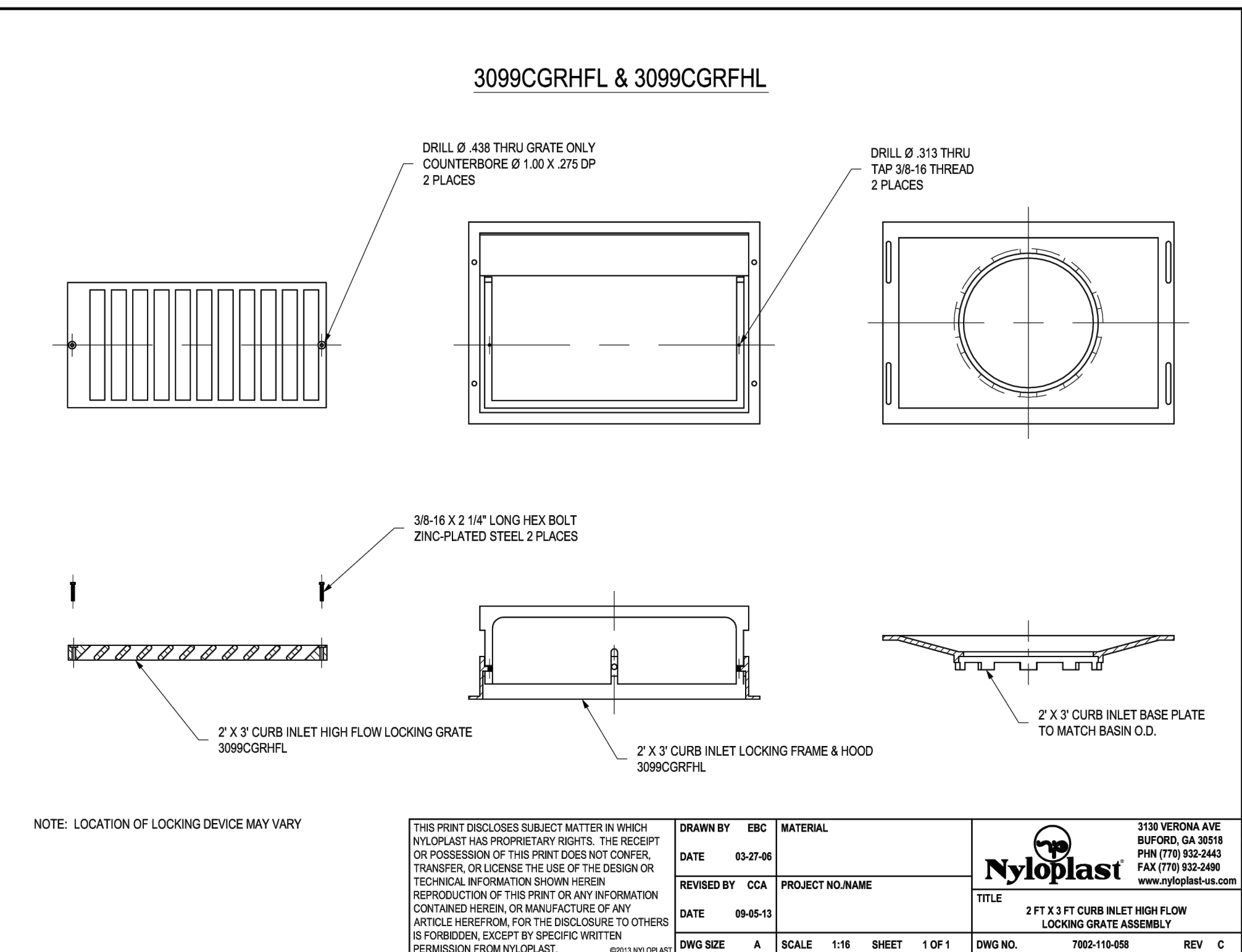
DRAWN BY	EBG	MATERIAL	DUCTILE IRON
DATE	04-10-06	PROJECT NO./NAME	
REVISION	CCA	PROJECT NO./NAME	
DATE	09-05-13	DATE	09-05-13
DWG SIZE	A	SCALE	1:16
SHEET	1 OF 1	DWG NO.	7002-110-047
REV	D		

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FAX (770) 932-2490

PROJECT NAME:	DAC OEM
PROJECT LOCATION:	LAS CRUCES, DONA ANA COUNTY, NM
STRUCTURE NO./NAME:	DRAIN BASIN NO. 3
DATE:	11/13/2024
# SHEET	OF #

DRAWN BY	EBG	MATERIAL	DUCTILE IRON
DATE	04-10-06	PROJECT NO./NAME	
REVISION	CCA	PROJECT NO./NAME	
DATE	09-05-13	DATE	09-05-13
DWG SIZE	A	SCALE	1:16
SHEET	1 OF 1	DWG NO.	7002-110-047
REV	D		



DATE	03-27-06
REVISION	CCA
DATE	09-05-13

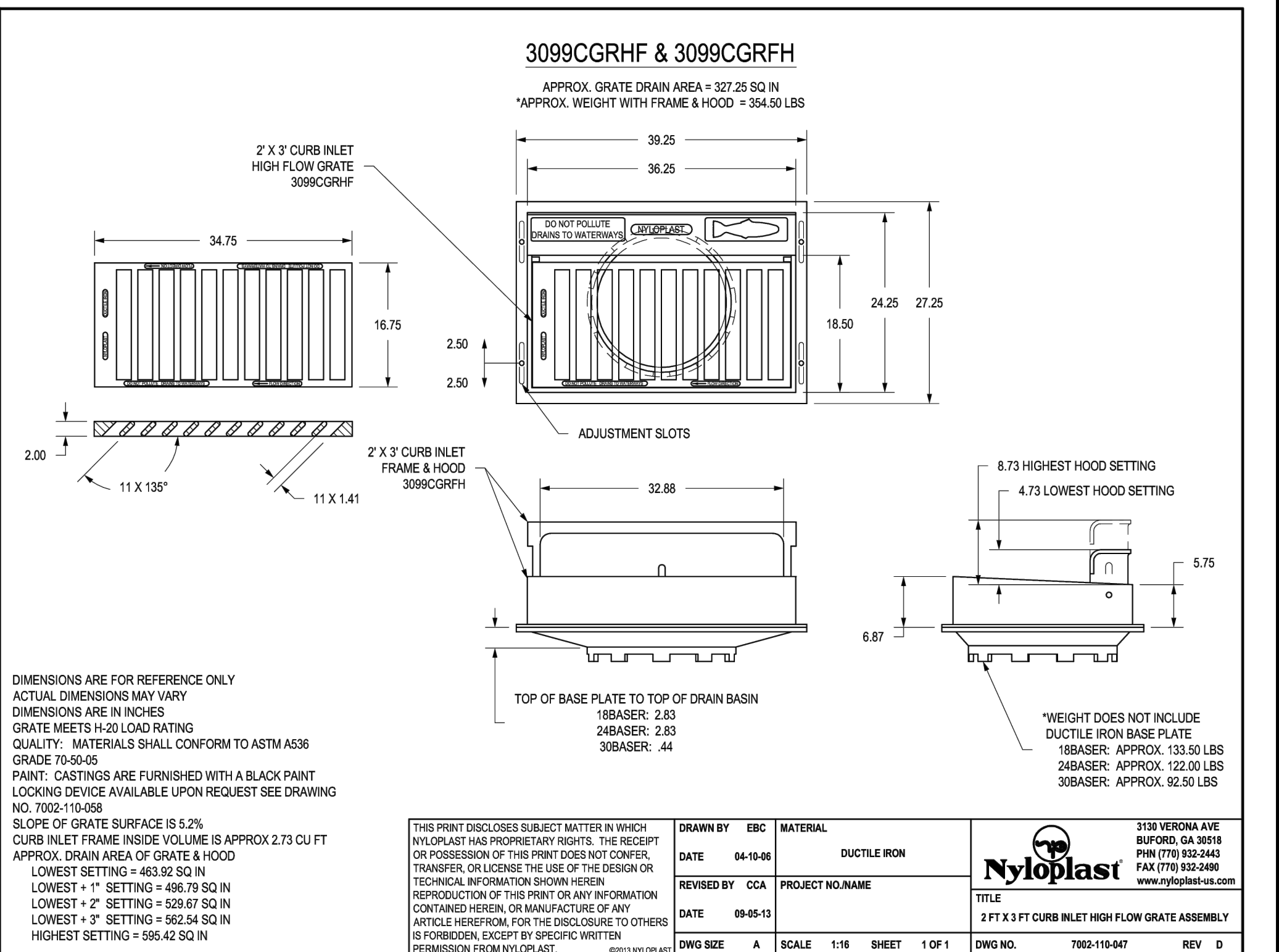
DRAWN BY	EBG	MATERIAL	DUCTILE IRON
DATE	03-27-06	PROJECT NO./NAME	
REVISION	CCA	PROJECT NO./NAME	
DATE	09-05-13	DATE	09-05-13
DWG SIZE	A	SCALE	1:16
SHEET	1 OF 1	DWG NO.	7002-110-058
REV	C		

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PROJECT NAME:	DAC OEM
PROJECT LOCATION:	LAS CRUCES, DONA ANA COUNTY, NM
STRUCTURE NO./NAME:	DRAIN BASIN NO. 4
DATE:	11/13/2024
# SHEET	OF #

DRAWN BY	EBG	MATERIAL	DUCTILE IRON
DATE	04-10-06	PROJECT NO./NAME	
REVISION	CCA	PROJECT NO./NAME	
DATE	09-05-13	DATE	09-05-13
DWG SIZE	A	SCALE	1:16
SHEET	1 OF 1	DWG NO.	7002-110-047
REV	D		



DRAWN BY	EBG	MATERIAL	DUCTILE IRON
DATE	04-10-06	PROJECT NO./NAME	
REVISION	CCA	PROJECT NO./NAME	
DATE	09-05-13	DATE	09-05-13
DWG SIZE	A	SCALE	1:16
SHEET	1 OF 1	DWG NO.	7002-110-047
REV	D		

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PHN (770) 932-2443  
FAX (770) 932-2490

PROJECT NAME:	DAC OEM
PROJECT LOCATION:	LAS CRUCES, DONA ANA COUNTY, NM
STRUCTURE NO./NAME:	DRAIN BASIN NO. 4
DATE:	11/13/2024
# SHEET	OF #

DRAWN BY	EBG	MATERIAL	DUCTILE IRON
DATE	04-10-06	PROJECT NO./NAME	
REVISION	CCA	PROJECT NO./NAME	
DATE	09-05-13	DATE	09-05-13
DWG SIZE	A	SCALE	1:16
SHEET	1 OF 1	DWG NO.	7002-110-047
REV	D		

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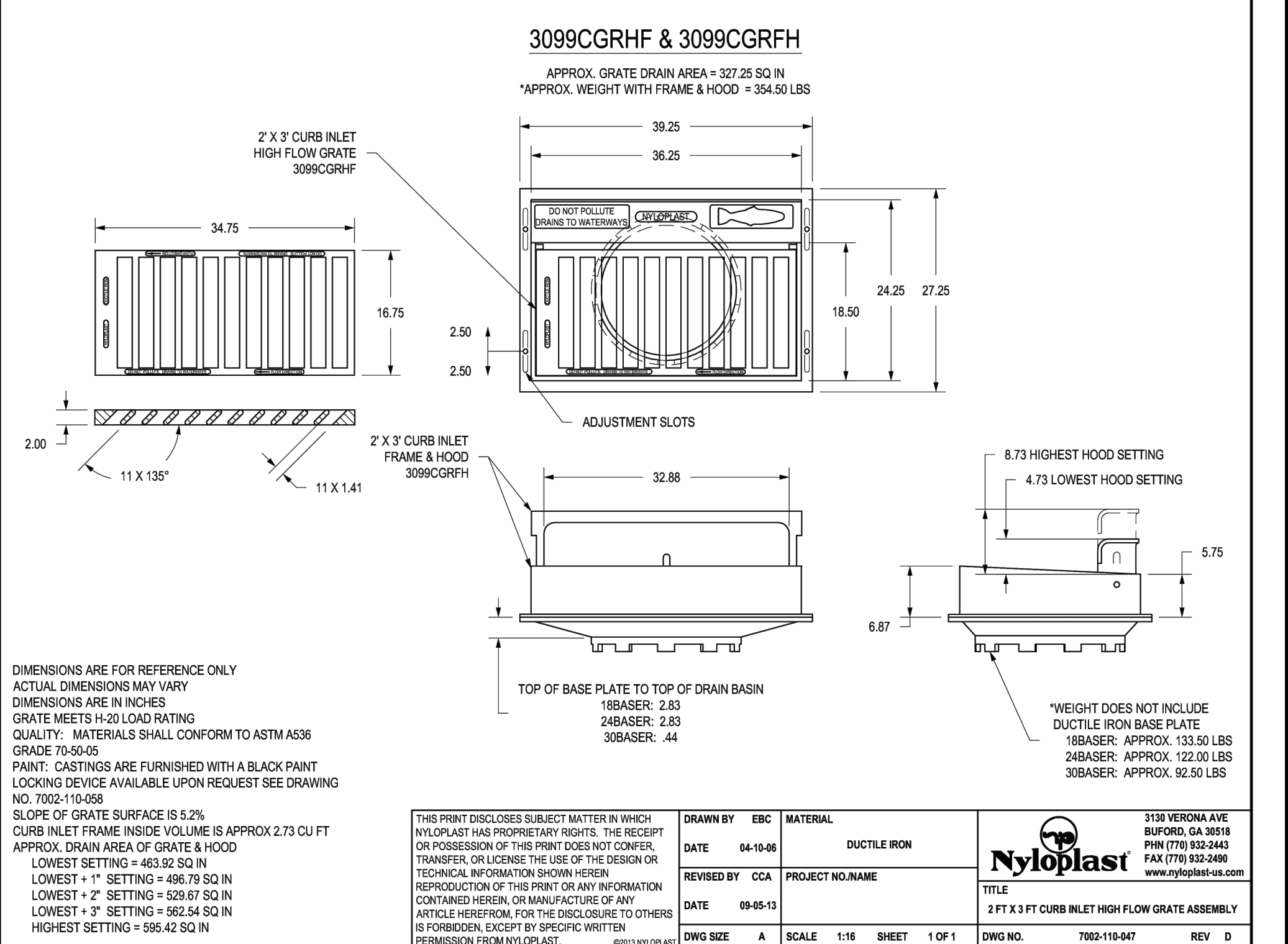
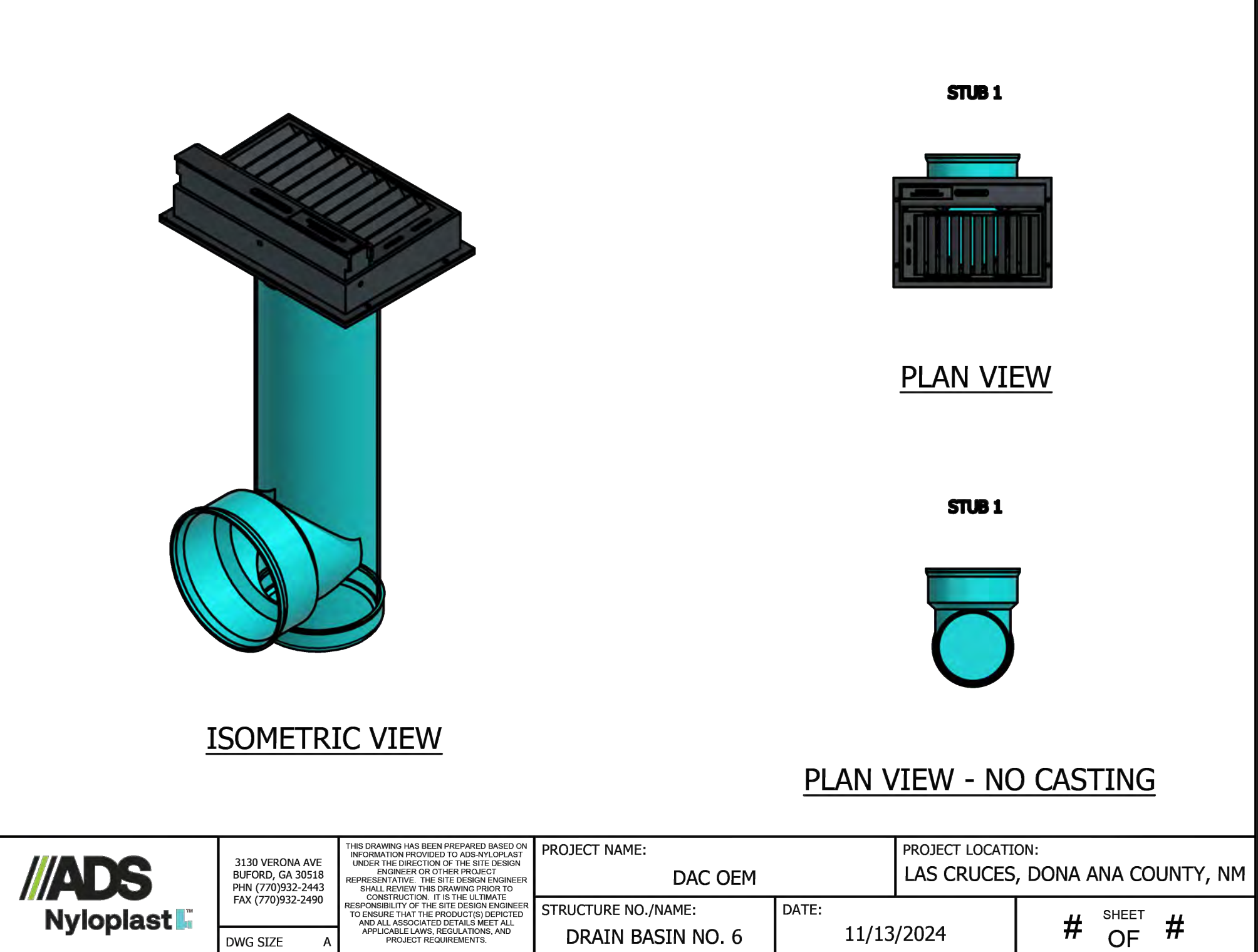
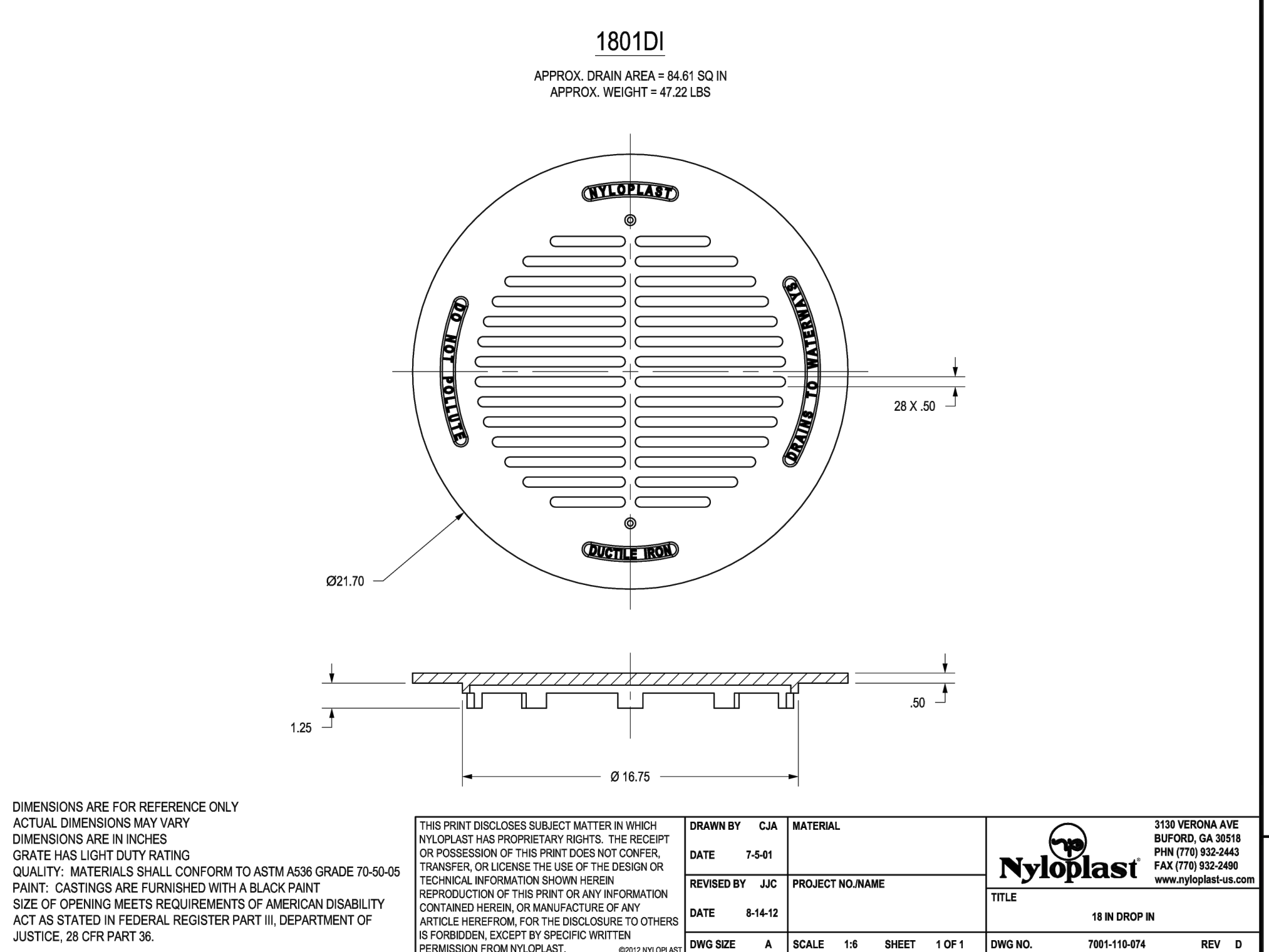
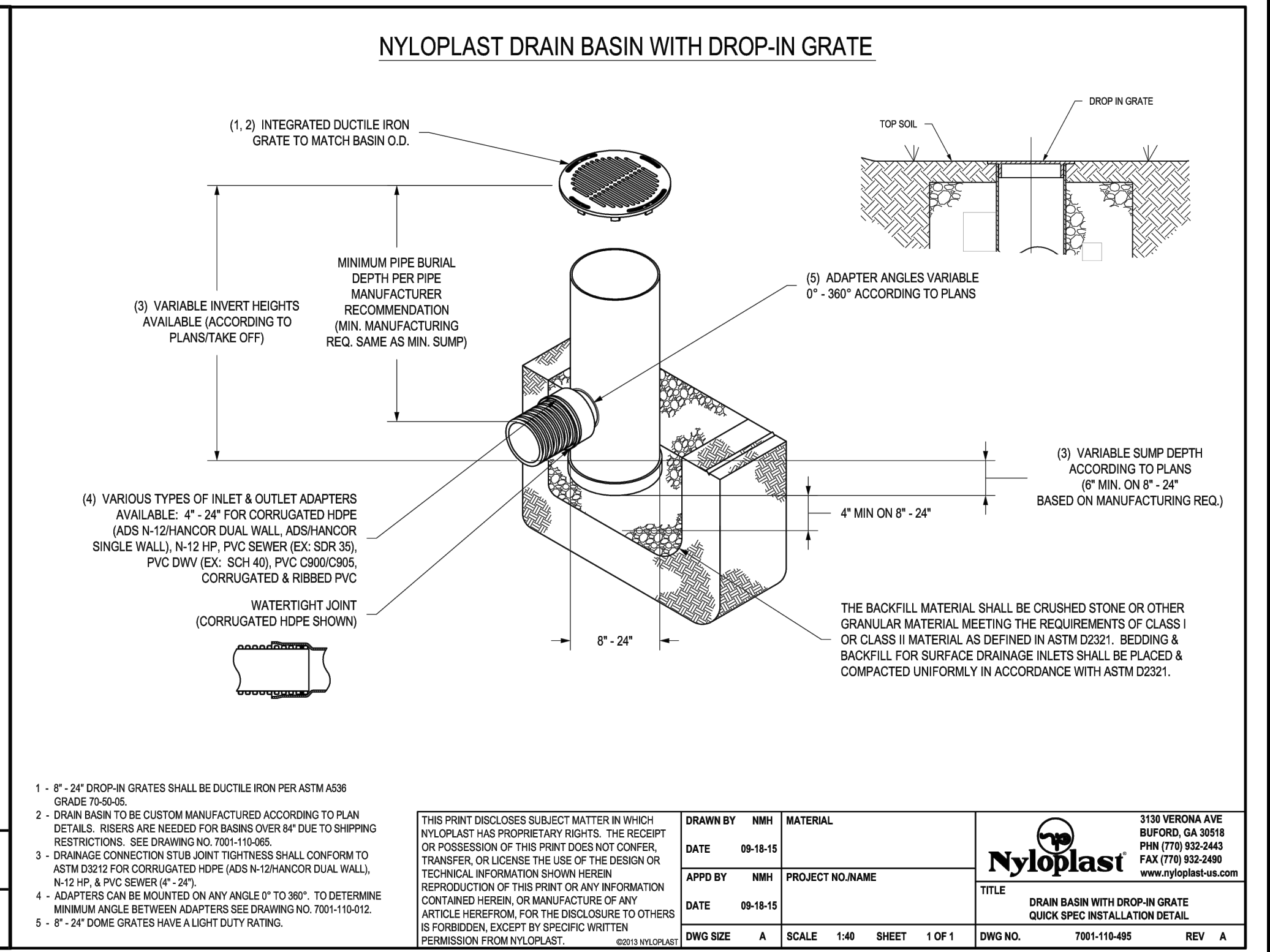
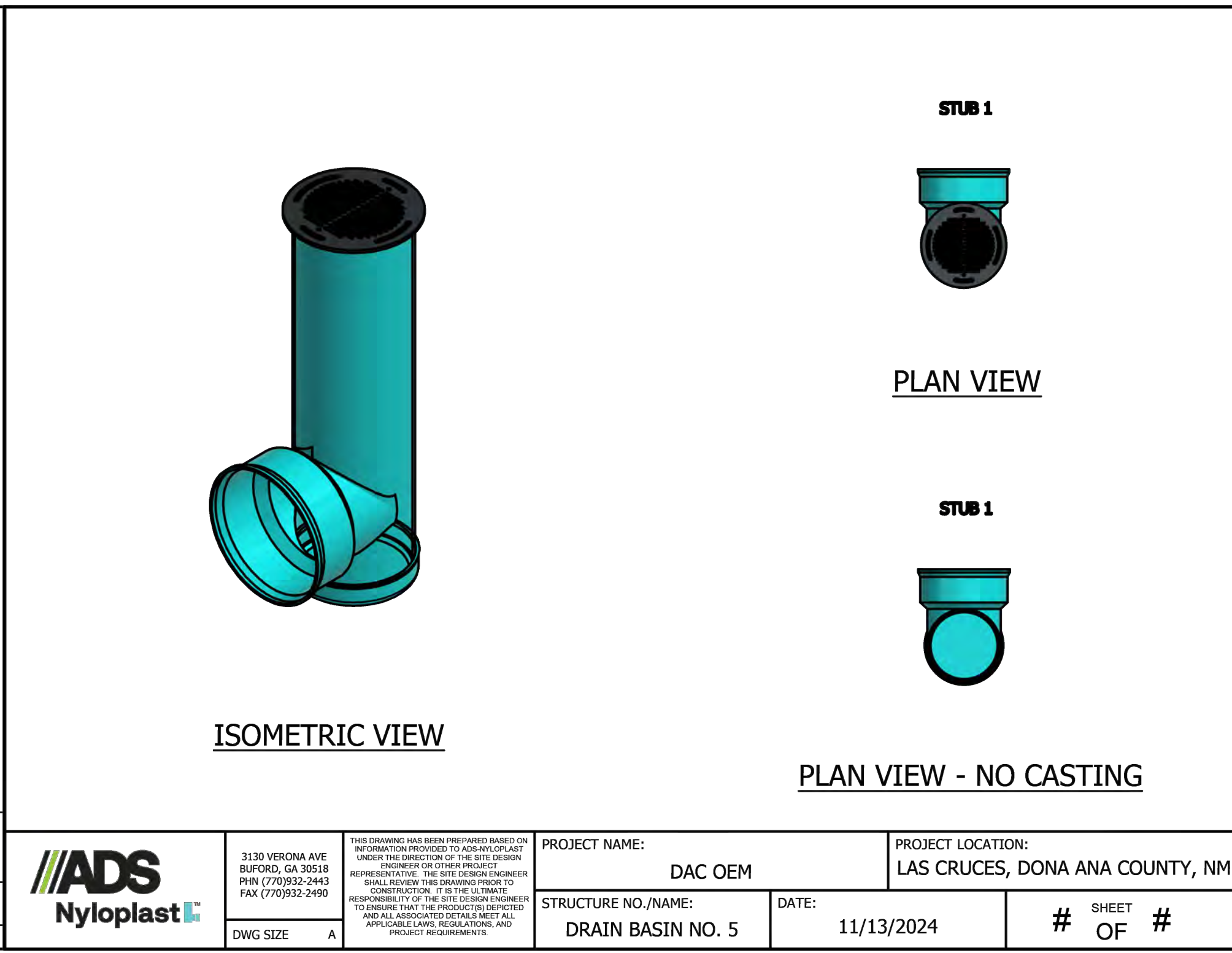
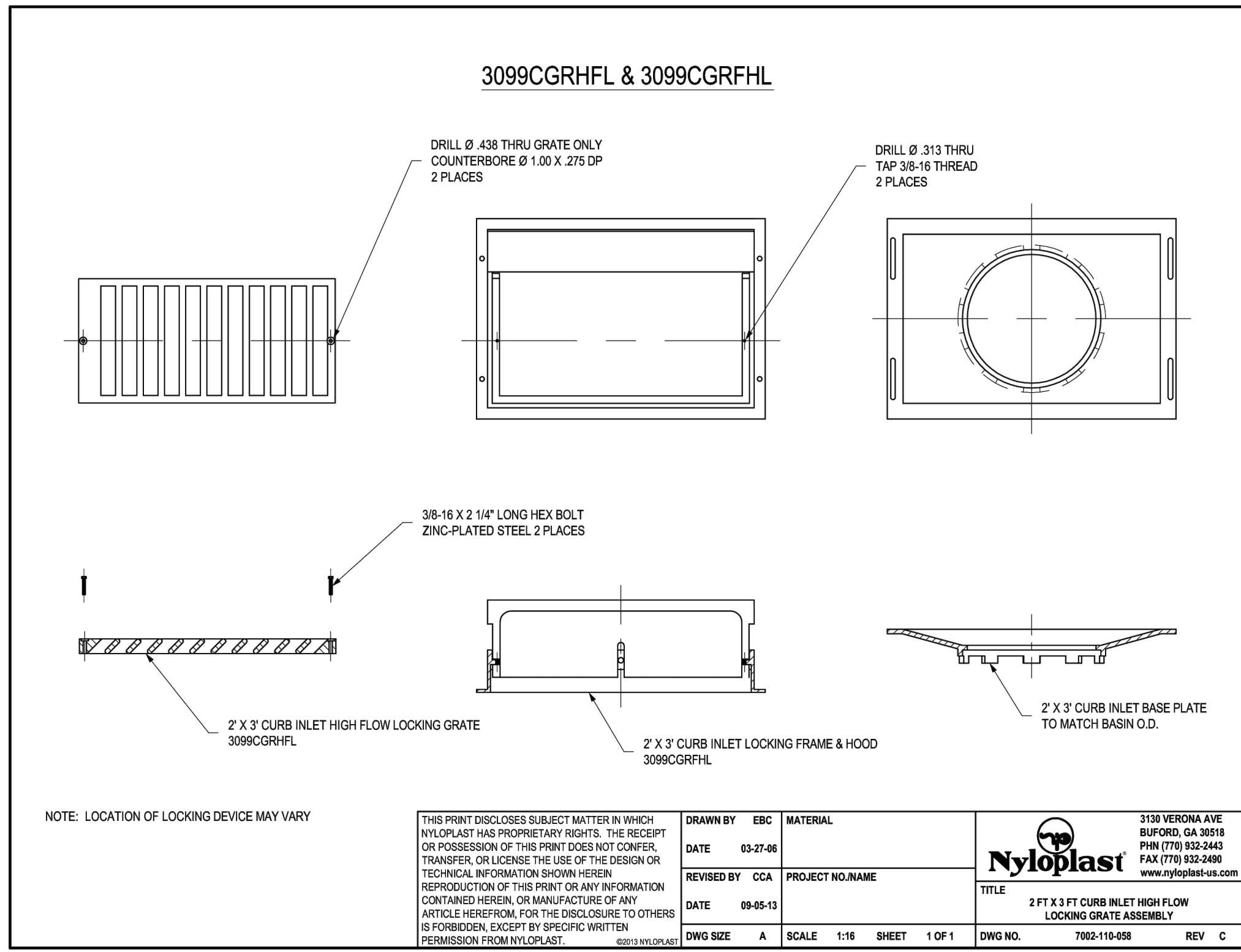


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DESIGNED	MJ	DRAWN	DIF	CHECKED	MJ
DATE	December 2024				
SCALE	Horiz: AS SHOWN				
PROJECT NO.	9331490				
SHEET	C603				

**Michael D. Johnson**  
NEW MEXICO  
REGISTERED PROFESSIONAL ENGINEER

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Date: December 2024  
Scale: Horiz: AS SHOWN  
Project No: 9331490  
Sheet: C603



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By: CHK  
DIF  
90% SUBMITTAL  
11/16/24  
12/16/24

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PROJECT DETAILS

12/16/24  
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED  
Designed: MJ  
Drawn: DIF  
Checked: MJ  
Date: December 2024  
Scale: Horiz: AS SHOWN  
Vert: AS SHOWN  
Project No: 9331490  
Sheet: C604

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### 3099CGRHFL & 3099CGRFHL

DRILL Ø .438 THRU GRATE ONLY  
COUNTERBORE Ø 1.00 X .275 DP  
2 PLACES

DRILL Ø .313 THRU  
TAP 3/8-16 THREAD  
2 PLACES

3/8-16 X 2 1/4" LONG HEX BOLT  
ZINC-PLATED STEEL 2 PLACES

2" X 3" CURB INLET HIGH FLOW LOCKING GRATE  
3099CGRHFL

2" X 3" CURB INLET LOCKING FRAME & HOOD  
3099CGRFHL

NOTE: LOCATION OF LOCKING DEVICE MAY VARY

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DATE	03-27-06		
REVISED BY	CCA	PROJECT NO./NAME	
DATE	09-05-13		
DWG SIZE	A	SCALE	1:16 SHEET 1 OF 1
DWG NO.	7002-110-058	REV	C

### ISOMETRIC VIEW

### PLAN VIEW

### PLAN VIEW - NO CASTING

STUB 1

STUB 1

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PROJECT NAME:	DAC OEM	PROJECT LOCATION:	LAS CRUCES, DONA ANA COUNTY, NM
STRUCTURE NO./NAME:	DRAIN BASIN NO. 7	DATE:	11/13/2024
		#	SHEET #

### 3099CGRHF & 3099CGRFH

APPROX. GRATE DRAIN AREA = 327.25 SQ IN  
APPROX. WEIGHT WITH FRAME & HOOD = 354.50 LBS

2" X 3" CURB INLET HIGH FLOW GRATE  
3099CGRHF

2" X 3" CURB INLET FRAME & HOOD  
3099CGRFH

ADJUSTMENT SLOTS

TOP OF BASE PLATE TO TOP OF DRAIN BASIN

18BASER: 2.83  
24BASER: 2.83  
30BASER: .44

8.73 HIGHEST HOOD SETTING  
4.73 LOWEST HOOD SETTING

6.87

5.75

NOTE: LOCATION OF LOCKING DEVICE MAY VARY

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DATE	04-10-06			
REVISED BY	CCA	PROJECT NO./NAME		
DATE	09-05-13			
DWG SIZE	A	SCALE	1:16 SHEET 1 OF 1	
DWG NO.	7002-110-047	REV	D	

### 3099CGRHFL & 3099CGRFHL

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COUNTERBORE Ø 1.00 X .275 DP  
2 PLACES

DRILL Ø .313 THRU  
TAP 3/8-16 THREAD  
2 PLACES

3/8-16 X 2 1/4" LONG HEX BOLT  
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DATE	03-27-06		
REVISED BY	CCA	PROJECT NO./NAME	
DATE	09-05-13		
DWG SIZE	A	SCALE	1:16 SHEET 1 OF 1
DWG NO.	7002-110-058	REV	C

### NOTES

- 3'-30" (914-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A538 GRADE 70-50-05
- 12'-30" (368-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A538 GRADE 70-50-05
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLANDTALS
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE, ADS & HANCOCK DUAL WALL, & SUR 35 PAPE
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION: WWW.ADSPIPE.COM/NYLOPLAST

A	PART #	GRATE/SOLID COVER OPTIONS
8"	2808AG	PEDESTRIAN LIGHT DUTY / STANDARD LIGHT DUTY / SOLID LIGHT DUTY
10"	2810AG	PEDESTRIAN LIGHT DUTY / STANDARD LIGHT DUTY / SOLID LIGHT DUTY
12"	2812AG	PEDESTRIAN AASHTO H-10 / STANDARD AASHTO H-20 / SOLID AASHTO H-20
15"	2815AG	PEDESTRIAN AASHTO H-10 / STANDARD AASHTO H-20 / SOLID AASHTO H-20
18"	2818AG	PEDESTRIAN AASHTO H-10 / STANDARD AASHTO H-20 / SOLID AASHTO H-20
24"	2824AG	PEDESTRIAN AASHTO H-10 / STANDARD AASHTO H-20 / SOLID AASHTO H-20
30"	2830AG	PEDESTRIAN AASHTO H-10 / STANDARD AASHTO H-20 / SOLID AASHTO H-20

INTEGRATED DUCTILE IRON FRAME & GRATE/SOLID TO MATCH BASIN O.D.

12" (305 mm) MIN (FOR AASHTO H-20)

18" (457 mm) MIN WIDTH

12" (305 mm) MIN THICKNESS

EMBEDDED CONCRETE OR EQUIVALENTS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED GIVING CONSIDERATION FOR LOCAL SOIL CONDITIONS, TRAFFIC LOADING & OTHER APPLICABLE DESIGN FACTORS.

ADAPTER ANGLES VARIABLE 0° - 360° ACCORDING TO PLANS

VARIABLE HOOD DEPTH ACCORDING TO PLANS

1" (25 mm) MIN ON 30" (762 mm) MIN

4" (102 mm) MIN ON 30" (762 mm) MIN

6" (152 mm) MIN ON 30" (762 mm) MIN

BACKFILL MATERIAL BELOW AND TO SIDES OF STRUCTURE SHALL BE ASTM D2321 CLASS II OR CALCULATED STONE OR GRAVEL AND BE PLACED UNIFORMELY IN 15" (381 mm) LIFTS AND COMPACTED TO MIN OF 95%

WATER-TIGHT JOINT (CORRUGATED HOPE SHOWN)

VARIOUS TYPES OF INLET AND OUTLET ADAPTERS AVAILABLE: 4" (102 mm) FOR CORRUGATED HOPE

### Step-by-Step Process

**STEP 1:** Excavate Drain Basin location to depth. Provide a stone base. (Width of excavation can be the same width as pipe length.)

**STEP 2:** Set Drain Basin in place and level.

**STEP 3:** Install provided F-477 gasket for HDPE/PP corrugated pipe into last corrugation of the pipe. Lube the gasketed pipe and the inside of the drain basin hole.

**STEP 4:** Backfill the back side of structures and push the pipe home to the shed position. Re-check Drain Basin depth, level and position.

**STEP 5:** Backfill uniformly around structures with class II, or fill material and compact in lifts according to ASTM D2321.

**STEP 6:** The drain basin body can be cut at the time of the final grade or raised with riser. No brick, stone or concrete block will be required to set the grate to the final grade height.

NOTE: For H-20 or heavier load rated installations, set elevation of frame and grate. Then pour a concrete collar around and leave flowable fill under edges to support the frame.

ASPHALT OVERLAY AT GRADE  
CONCRETE COLLAR BELOW ASPHALT OVERLAY  
CONCRETE COLLAR AT GRADE

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT THE PRODUCTS SHOWN MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

PROJECT NAME:	DAC OEM	PROJECT LOCATION:	LAS CRUCES, NM
STRUCTURE NO./NAME:	9331490	REVISION/DATE:	11/13/24
		#3 SHEET OF #4	

<p>3130 VERONA AVE BURLINGAME, CA 94010 (770) 932-2443 WWW.ADSPIPE.COM</p>	<p>PROJECT NAME:</p> <p>DAC OEM</p> <p>PROJECT LOCATION:</p> <p>LAS CRUCES, NM</p>	<p>3130 VERONA AVE BURLINGAME, CA 94010 (770) 932-2443 WWW.ADSPIPE.COM</p>	<p>PROJECT NAME:</p> <p>DAC OEM</p> <p>PROJECT LOCATION:</p> <p>LAS CRUCES, NM</p>
<p>THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT THE PRODUCTS SHOWN MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.</p>	<p>STRUCTURE NO./NAME:</p> <p>9331490</p> <p>REVISION/DATE:</p> <p>11/13/24</p> <p>#3 SHEET OF #4</p>	<p>THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT THE PRODUCTS SHOWN MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.</p>	<p>STRUCTURE NO./NAME:</p> <p>9331490</p> <p>REVISION/DATE:</p> <p>11/13/24</p> <p>#4 SHEET OF #4</p>

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12/16/24

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Designed	Drawn	Checked
MJ	DIF	MJ

Date: December 2024

Scale: Horiz: AS SHOWN  
Vert: AS SHOWN

Project No: 9331490

Sheet: C605

Professional Resources for Damage Prevention

nm811

To Request a Line Locate Dial 811

New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.

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P:\9-ASA DAC Emergency Mgmt Facility (9331490)\CAD\Civil\CONSTRUCTION DWGS\9331490 - PROJECT DETAILS.dwg 2/16/2024 10:12 AM DJF

By: CHKD  
DIF  
DIF

11/16/24  
12/16/24

INITIAL SUBMITTAL  
90% SUBMITTAL

SOUDER, MILLER & ASSOCIATES  
Engineering • Environmental • Geomatics  
SMA  
3500 Sedona Hills Pkwy.  
Las Cruces, NM 88011  
Phone: (575) 647-0799 Fax: (575) 647-0680  
www.soudermiller.com

LAS CRUCES, NEW MEXICO

DONA ANA COUNTY

DOÑA ANA COUNTY OEM EMERGENCY OPERATIONS CENTER  
TORTUGAS TRAIL - LAS CRUCES, NM  
PROJECT DETAILS

MICHEL D. JOHNSON  
NEW MEXICO  
REGISTERED PROFESSIONAL ENGINEER

12/16/24

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Designed	Drawn	Checked
MJ	DIF	MJ

Date: December 2024

Scale: Horiz: AS SHOWN  
Vert: AS SHOWN

Project No: 9331490

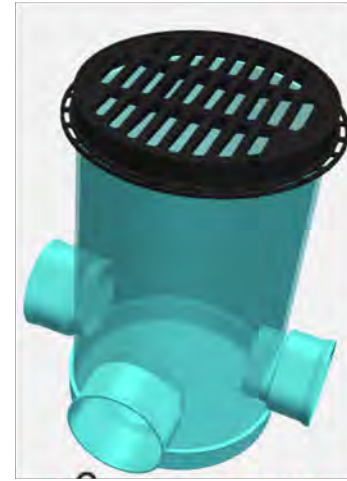
Sheet: C605





# Drain Basin Production Forms for Submittal & Approval

Shop drawings must contain complete information before order can be entered and sent to production. Customer amendments to shop drawings should be clear & evident. Please do not use a PDF writer.



Project Name & No.: DAC OEM

Shop Drawing Date: 11/13/2024 Revision: 01

Civil Plan Date: \_\_\_\_\_

Stormtech Layout Date: \_\_\_\_\_

All Nyloplast production forms are an interpretation of submitted information. Final responsibility for accuracy of all items manufactured belongs to the customer and signature on returned cover sheet and/or shop drawings indicates approval.

Reviewed By: \_\_\_\_\_  
Approved By: \_\_\_\_\_  
Approval Date: \_\_\_\_\_

SHIPPING OPTIONS		
*LTL Van Trailer Standard*		
Add Liftgate & Pallet Jack (Available for LTL orders ONLY)	Yes / No	Cost
<input type="checkbox"/>		\$300

\* Adding this option may result in a delayed delivery  
\* Service NOT available for dedicated truckload orders

**ADS Nyloplast DRAIN BASIN SHOP DRAWING**

PO# 9331490  
Part Number 3030AGR5  
Revision/Date REV 01 11/13/24  
Customer Approval

Project Name DAC OEM 30 Structure No. DRAIN BASIN NO. 1 Qty. 1

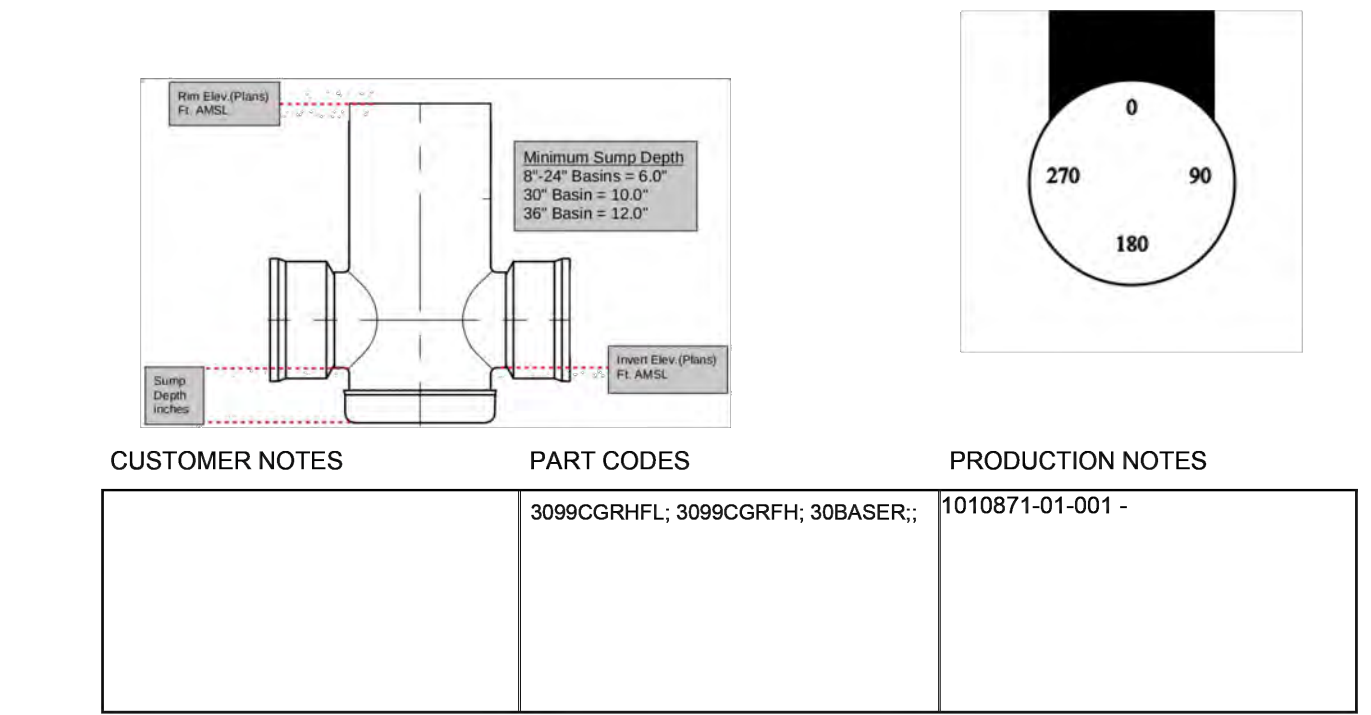
Prepared By civil.lco@soudermiller.com  
Souder, Miller & Associates  
(575) 647-0799  
civil.lco@soudermiller.com

Grate 30; 2X3 Curb Frame & Hood H-20 High Flow

Accessories Baseplate, Locking Casting

Rim Elev. 49.16 ft. Basin Height 47.88 in. Sump Depth 10 in.

Stub #	Stub size	Angle	Pipe Type	Invert Elev. AMSL	Production Depth
Stub #1	24 in.	0	ADS N-12	46 ft.	37.92 in.
Stub #2					
Stub #3					
Stub #4					
Stub #5					
Stub #6					



This product is made to order and non-Refundable  
Nyloplast, 3130 Verona Ave. Buford, GA 30518. (866) 888-8479  
Nyloplast® is a registered trademark of Advanced Drainage Systems®

Nyloplast® is not responsible for accuracy of shop drawings submitted by customer through the 3D Design Tool. Submission of shop drawings for purchase and fabrication constitute an approval for production as designed by customer.

**ADS Nyloplast DRAIN BASIN SHOP DRAWING**

PO# 9331490  
Part Number 3030AGR5  
Revision/Date REV 01 11/13/24  
Customer Approval

Project Name DAC OEM 30 Structure No. DRAIN BASIN NO. 2 Qty. 1

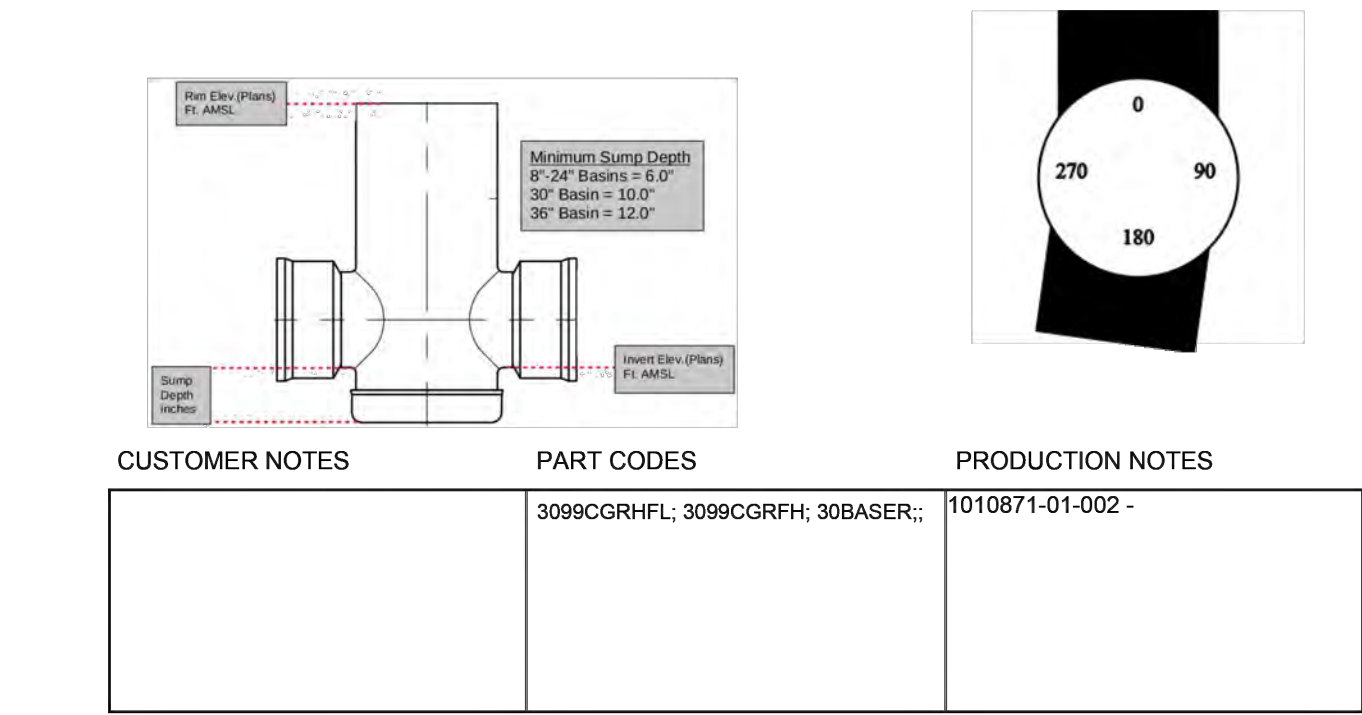
Prepared By civil.lco@soudermiller.com  
Souder, Miller & Associates  
(575) 647-0799  
civil.lco@soudermiller.com

Grate 30; 2X3 Curb Frame & Hood H-20 High Flow

Accessories Baseplate, Locking Casting

Rim Elev. 46.45 ft. Basin Height 48.6 in. Sump Depth 10 in.

Stub #	Stub size	Angle	Pipe Type	Invert Elev. AMSL	Production Depth
Stub #1	24 in.	0	ADS N-12	43.23 ft.	38.64 in.
Stub #2	24 in.	188	ADS N-12	43.32 ft.	37.56 in.
Stub #3					
Stub #4					
Stub #5					
Stub #6					



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**ADS Nyloplast DRAIN BASIN SHOP DRAWING**

PO# 9331490  
Part Number 3030AGR10  
Revision/Date REV 01 11/13/24  
Customer Approval

Project Name DAC OEM 30 Structure No. DRAIN BASIN NO. 3 Qty. 1

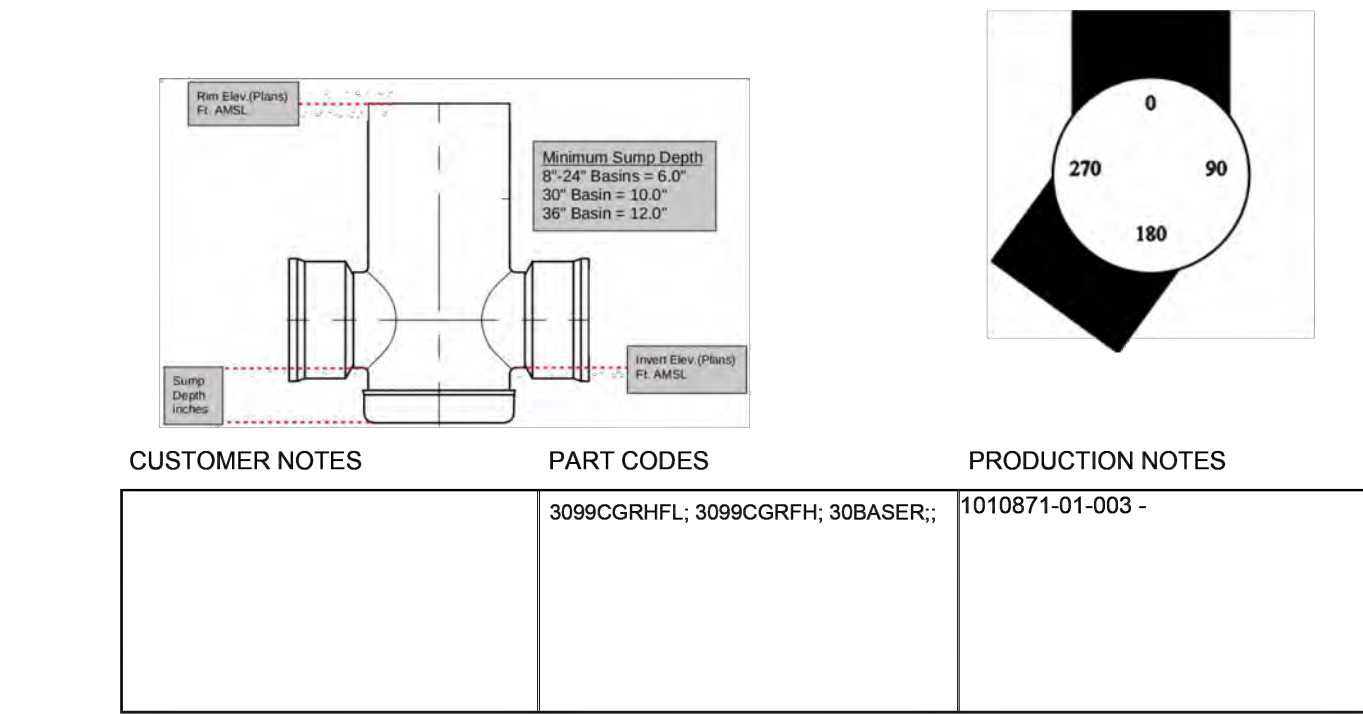
Prepared By civil.lco@soudermiller.com  
Souder, Miller & Associates  
(575) 647-0799  
civil.lco@soudermiller.com

Grate 30; 2X3 Curb Frame & Hood H-20 High Flow

Accessories Baseplate, Locking Casting

Rim Elev. 47.98 ft. Basin Height 111.12 in. Sump Depth 10 in.

Stub #	Stub size	Angle	Pipe Type	Invert Elev. AMSL	Production Depth
Stub #1	24 in.	0	ADS N-12	39.55 ft.	101.16 in.
Stub #2	24 in.	216	ADS N-12	39.63 ft.	100.2 in.
Stub #3					
Stub #4					
Stub #5					
Stub #6					



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**ADS Nyloplast DRAIN BASIN SHOP DRAWING**

PO# 9331490  
Part Number 3030AGR10  
Revision/Date REV 01 11/13/24  
Customer Approval

Project Name DAC OEM 30 Structure No. DRAIN BASIN NO. 4 Qty. 1

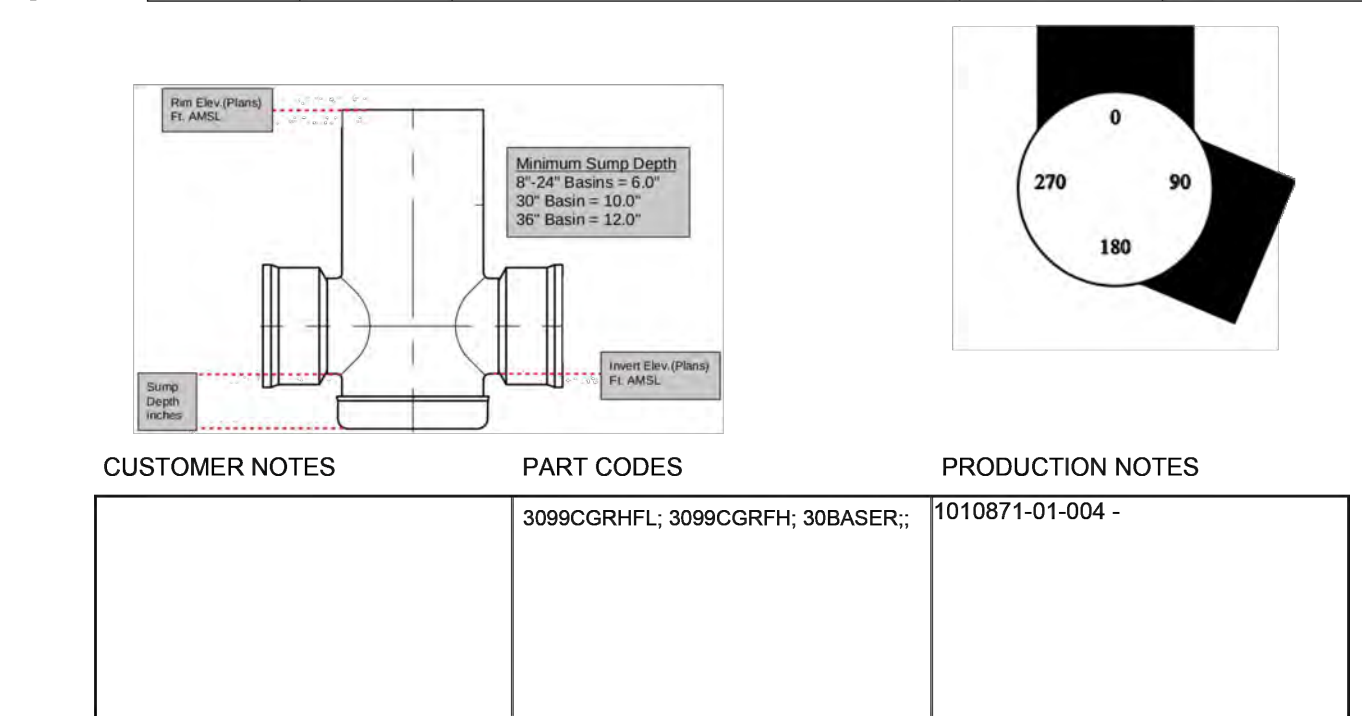
Prepared By civil.lco@soudermiller.com  
Souder, Miller & Associates  
(575) 647-0799  
civil.lco@soudermiller.com

Grate 30; 2X3 Curb Frame & Hood H-20 High Flow

Accessories Baseplate, Locking Casting

Rim Elev. 49.79 ft. Basin Height 164.52 in. Sump Depth 10 in.

Stub #	Stub size	Angle	Pipe Type	Invert Elev. AMSL	Production Depth
Stub #1	24 in.	0	ADS N-12	36.91 ft.	154.56 in.
Stub #2	24 in.	113	ADS N-12	36.98 ft.	153.72 in.
Stub #3					
Stub #4					
Stub #5					
Stub #6					



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**ADS Nyloplast DRAIN BASIN SHOP DRAWING**

PO# 9331490  
Part Number 2818AG7  
Revision/Date REV 01 11/13/24  
Customer Approval

Project Name DAC OEM 18 Structure No. DRAIN BASIN NO. 5 Qty. 1

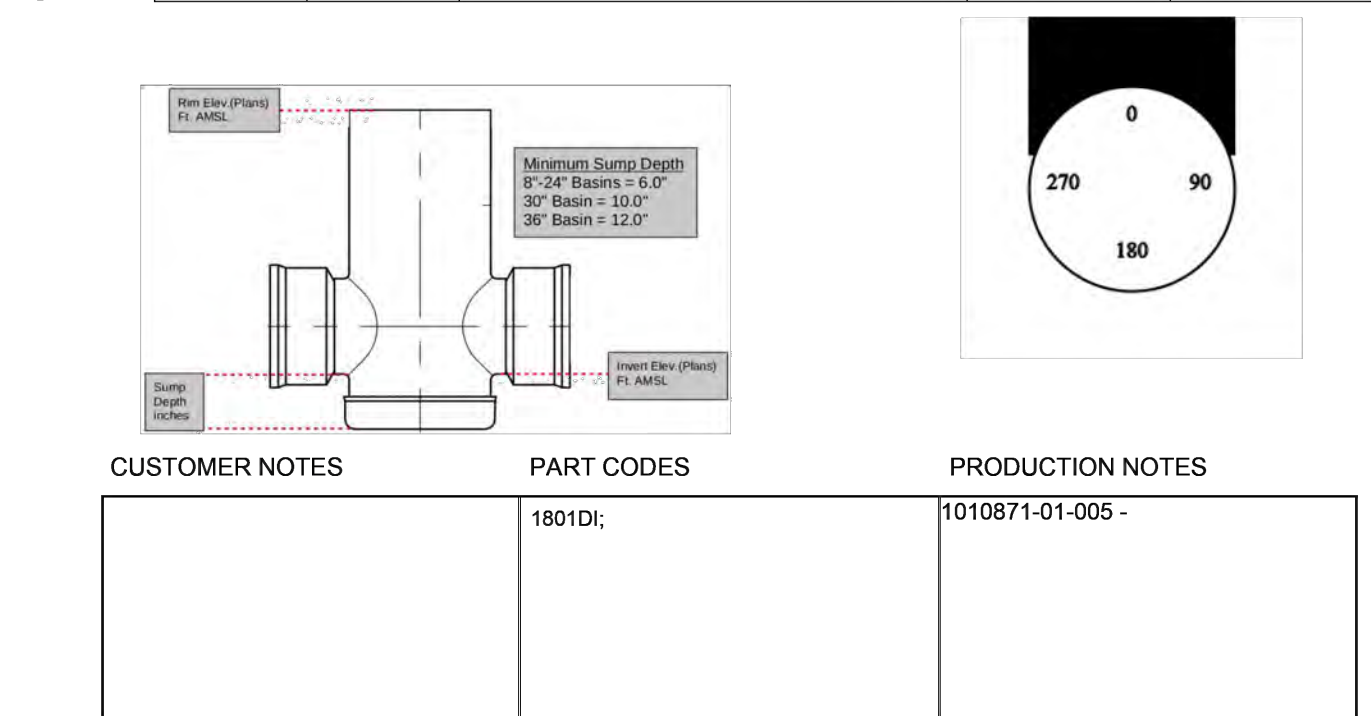
Prepared By civil.lco@soudermiller.com  
Souder, Miller & Associates  
(575) 647-0799  
civil.lco@soudermiller.com

Grate 18; Drop-in

Accessories

Rim Elev. 38 ft. Basin Height 66 in. Sump Depth 6 in.

Stub #	Stub size	Angle	Pipe Type	Invert Elev. AMSL	Production Depth
Stub #1	18 in.	0	ADS N-12	33 ft.	60 in.
Stub #2					
Stub #3					
Stub #4					
Stub #5					
Stub #6					



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**ADS Nyloplast DRAIN BASIN SHOP DRAWING**

PO# 9331490  
Part Number 3018AGR7  
Revision/Date REV 01 11/13/24  
Customer Approval

Project Name DAC OEM 18 Structure No. DRAIN BASIN NO. 6 Qty. 1

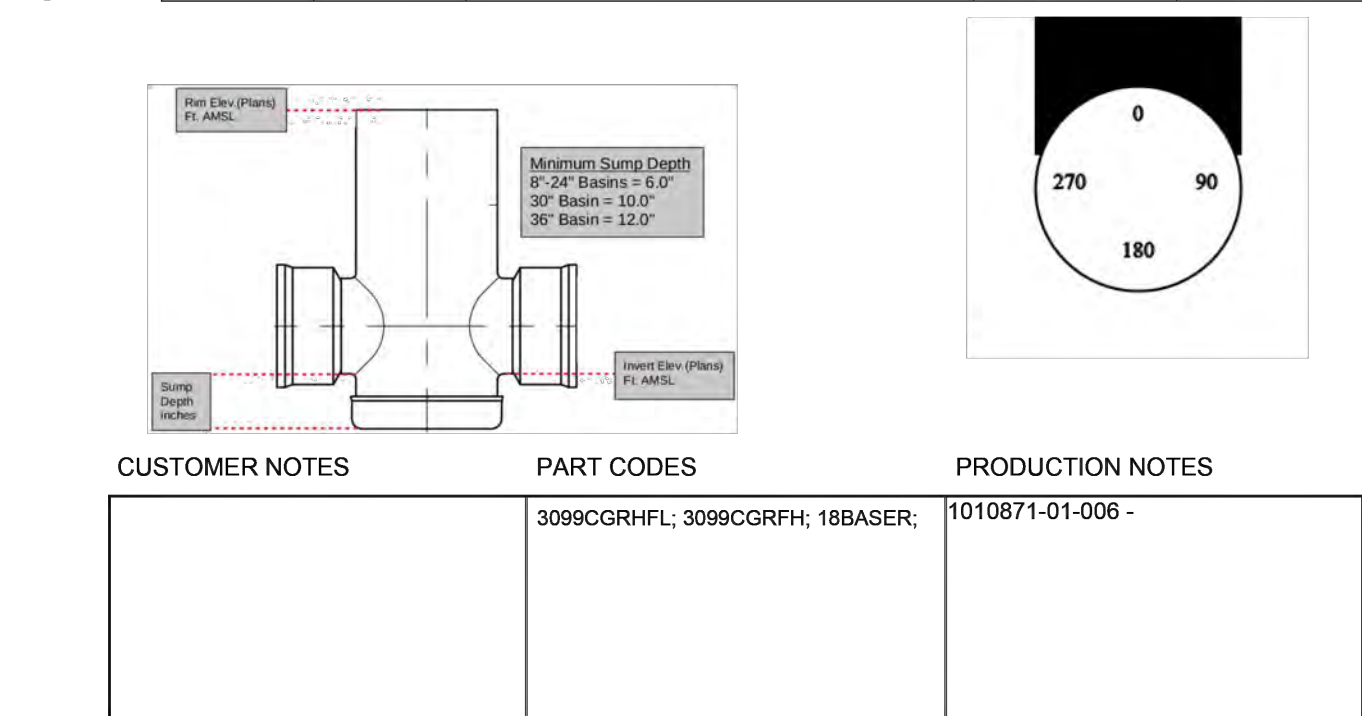
Prepared By civil.lco@soudermiller.com  
Souder, Miller & Associates  
(575) 647-0799  
civil.lco@soudermiller.com

Grate 18; 2X3 Curb Frame & Hood H-20 High Flow

Accessories Baseplate, Locking Casting

Rim Elev. 42.02 ft. Basin Height 66 in. Sump Depth 6 in.

Stub #	Stub size	Angle	Pipe Type	Invert Elev. AMSL	Production Depth
Stub #1	18 in.	0	ADS N-12	37.02 ft.	60 in.
Stub #2					
Stub #3					
Stub #4					
Stub #5					
Stub #6					



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PO# 9331490  
Part Number 3018AGR7  
Revision/Date REV 01 11/13/24  
Customer Approval

Project Name DAC OEM 18 Structure No. DRAIN BASIN NO. 7 Qty. 1

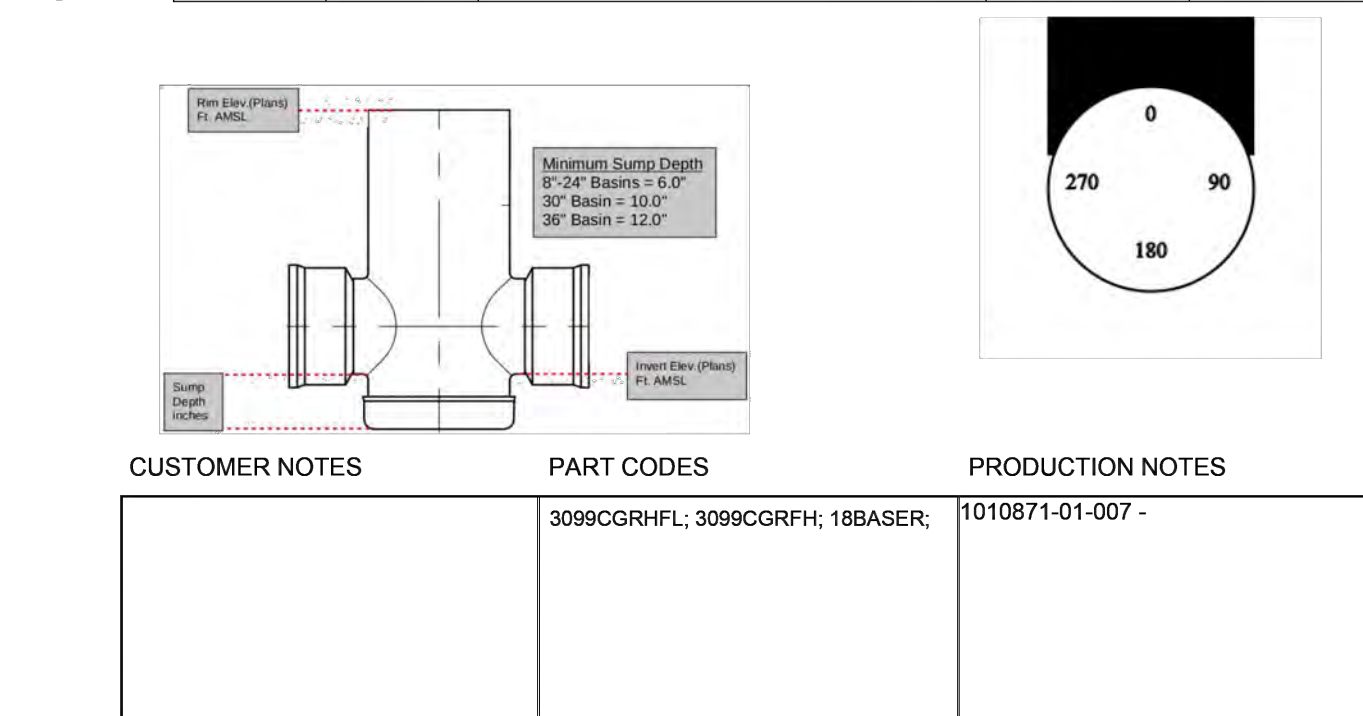
Prepared By civil.lco@soudermiller.com  
Souder, Miller & Associates  
(575) 647-0799  
civil.lco@soudermiller.com

Grate 18; 2X3 Curb Frame & Hood H-20 High Flow

Accessories Baseplate, Locking Casting

Rim Elev. 35.79 ft. Basin Height 66 in. Sump Depth 6 in.

Stub #	Stub size	Angle	Pipe Type	Invert Elev. AMSL	Production Depth
Stub #1	18 in.	0	ADS N-12	30.79 ft.	60 in.
Stub #2					
Stub #3					
Stub #4					
Stub #5					
Stub #6					



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To Request a Line Locate Dial 811  
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By	CHKD	Date	Description
		11/16/24	INITIAL SUBMITTAL
		12/16/24	90% SUBMITTAL

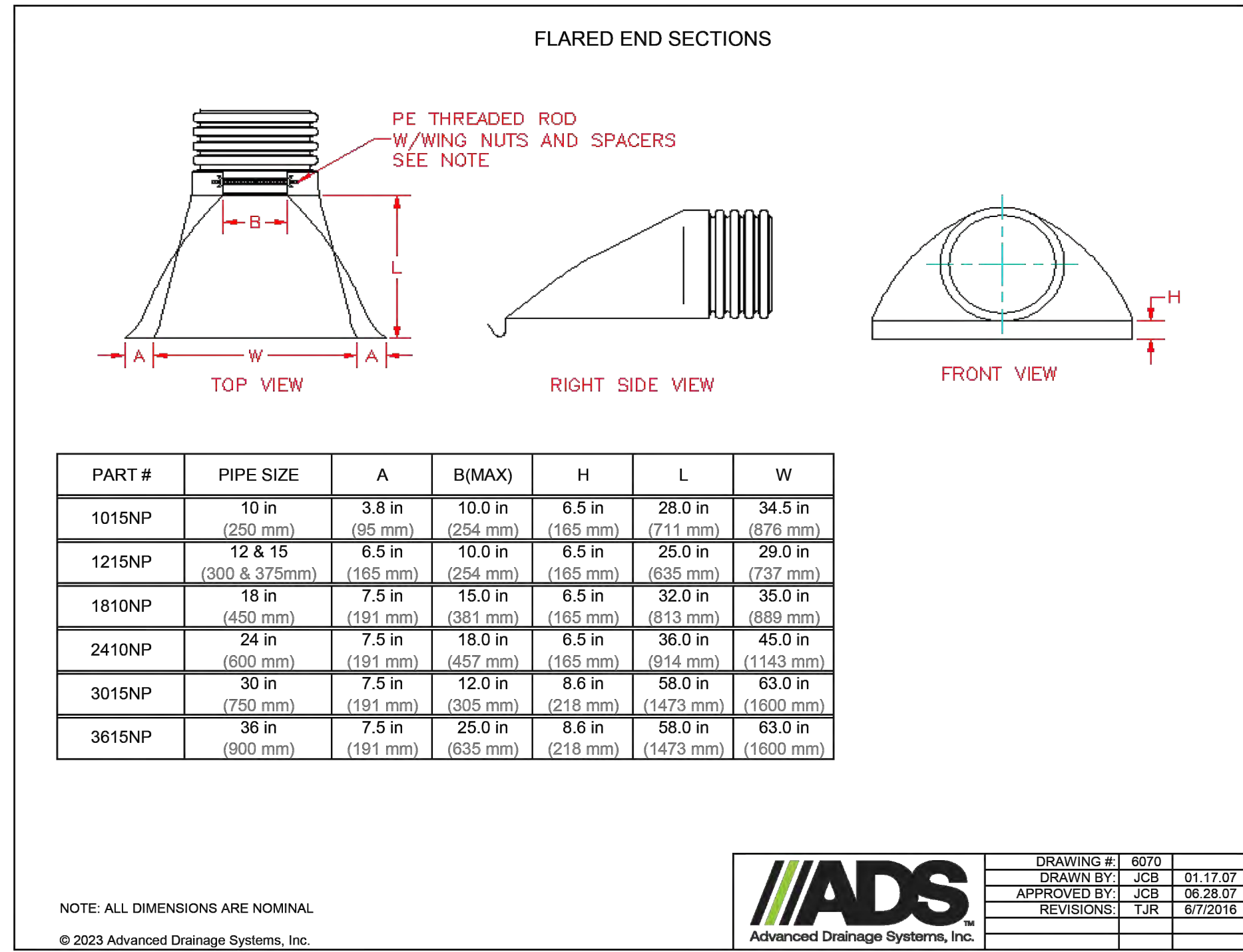
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Las Cruces, NM 88011  
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www.soudermiller.com

LAS CRUCES, NEW MEXICO  
**DOÑA ANA COUNTY OEM EMERGENCY OPERATIONS CENTER**  
TORTUGAS TRAIL - LAS CRUCES, NM  
PROJECT DETAILS

MICHEL D. JOHNSON  
NEW MEXICO  
REGISTERED PROFESSIONAL ENGINEER

Designed	Drawn	Checked
MJ	DIF	MJ

Date: December 2024  
Scale: Horiz: AS SHOWN  
Vert: AS SHOWN  
Project No: 9331490  
Sheet: C606



**FLARED END SECTION SPECIFICATION**

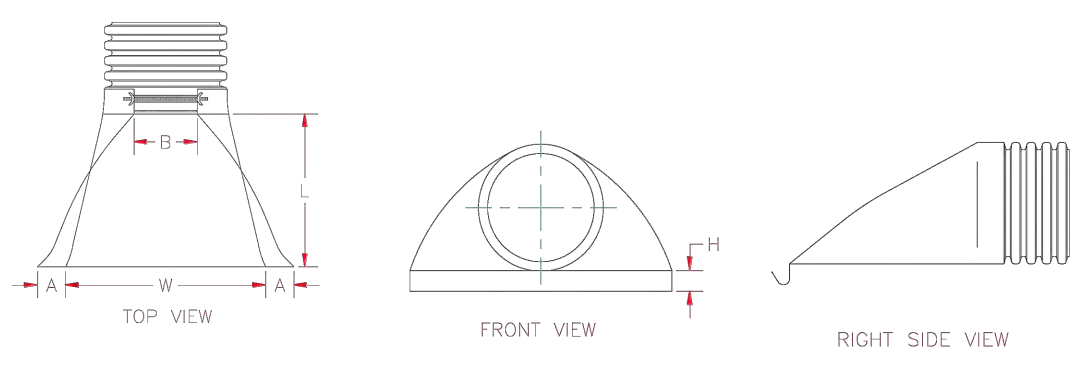
**Scope**  
This specification describes 12- through 36-inch (300 to 900mm) Flared End Sections for use in culvert and drainage outlet applications.

**Requirements**  
The Flared End Section shall be high density polyethylene meeting ASTM D3350 minimum cell classification 213320C; contact manufacturer for additional cell classification information. When provided, the metal threaded fastening rod shall be stainless steel.

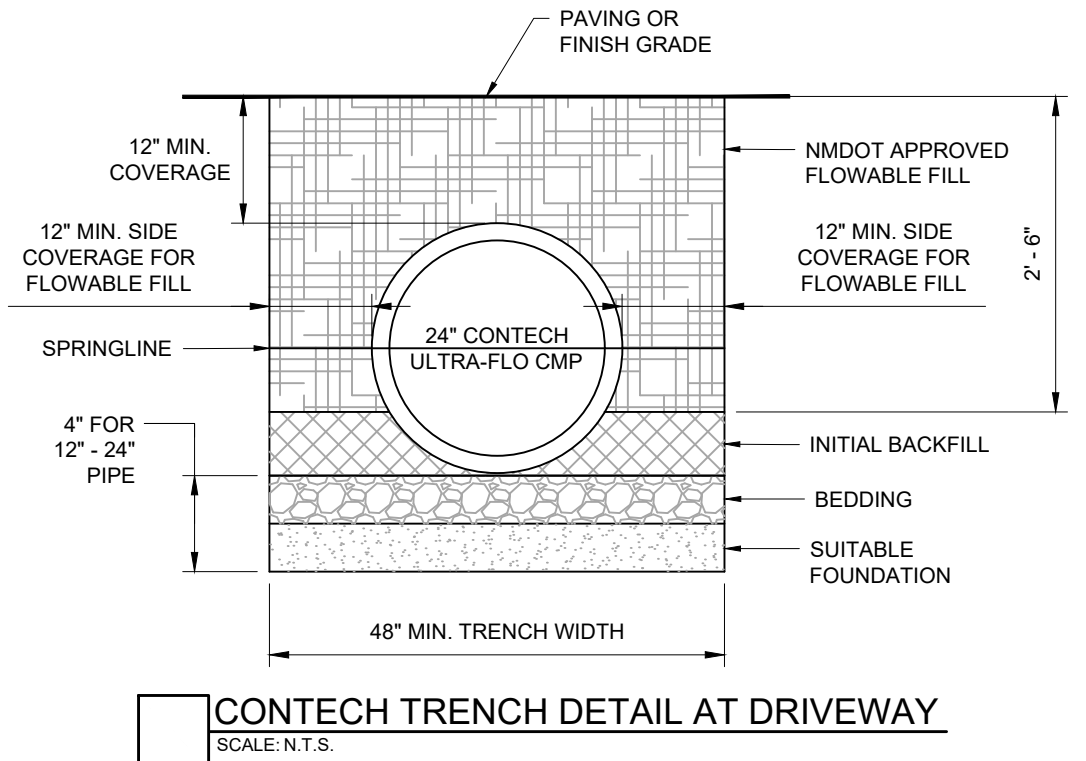
**Installation**  
Installation shall be in accordance with ADS installation instructions and with those issued by state or local authorities. Contact your local ADS representative or visit [www.adspipe.com](http://www.adspipe.com) for the latest installation instructions.

Dimension	PIPE DIAMETER, in (mm)			
	12 (300)	15 (375)	18 (450)	24 (600)
A	6.5 (165)	6.5 (165)	7.5 (191)	7.5 (191)
B (MAX)	10.0 (254)	10.0 (254)	15.0 (381)	18.0 (457)
H	6.5 (165)	6.5 (165)	6.5 (165)	6.5 (165)
L	25.0 (635)	25.0 (635)	32.0 (813)	36.0 (914)
W	29.0 (737)	29.0 (737)	35.0 (899)	45.0 (1143)

\*Product detail may differ slightly from actual product appearance



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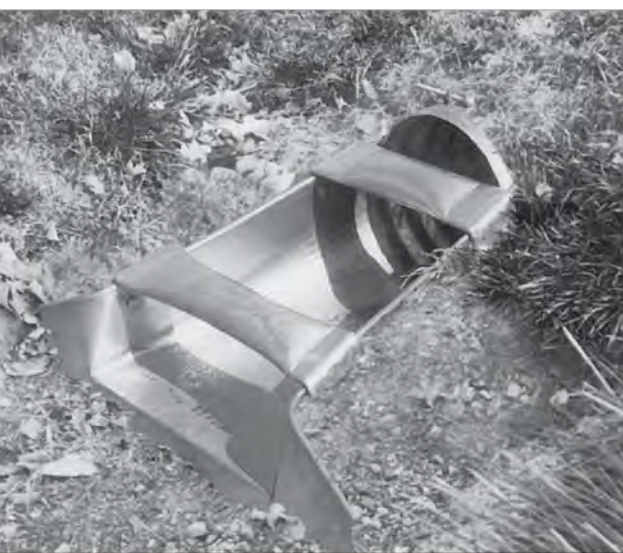
- NOTES:**
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION.
  - MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
  - FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
  - BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4" - 24" PIPE; 6" FOR 30" - 60" PIPE.
  - INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II, OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO THE ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
  - MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATAION. FOR TRAFFIC APPLICATIONS MINIMUM COVER IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54" - 60" DIAMETER PIPE. MEASURED FROM THE TOP OF PIPE TO BOTTOM OF TOP OF PAVING.



**Contech Low-Slope End Sections**

**4:1 and 6:1 Low-Slope End Sections for Corrugated Metal Pipe**

**Better roadside safety**  
According to studies and field tests, the safest culvert installations are those with flatter embankment slopes and matching pipe-end treatments. The resulting recommendations: Roadside design and construction employ such practices that can reduce collision damages—whenever there is a possibility of vehicular contact with culvert pipe ends.



Low-Slope End Section is shown with optional field-attached safety bars.

Newer safety-oriented designs, adopted by federal and many state highway agencies are based on 4:1 and 6:1 embankment slopes and matching steel-end sections with safety bars.

**Culvert improvements**  
In addition to providing extra safety, prefabricated Contech® steel pipe End Sections also help prevent scouring at inlet and outlet ends.  
Additionally, Contech steel End Sections enhance the structure's appearance by blending pipe ends with embankment slopes.

**Multiple functions and performance benefits**  
Versatile and durable Contech prefabricated steel End Sections are available for either round or pipe arch shapes.

These field-proven units provide a number of important features and benefits:

- Prefabricated, lightweight sections.
- Corrosion-resistant, galvanized steel.
- Easy field attachment without special tools.
- Easier roadside maintenance.
- Conformance to 4:1 or 6:1 slopes.
- Improved inlet/outlet efficiencies versus square ends on pipe.
- Removable and salvageable if required.

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Rev #	Date	Description	By	
			CHKD	DIF
A	11/16/24	INITIAL SUBMITTAL	MJ	MJ
B	12/16/24	90% SUBMITTAL	MJ	MJ

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LAS CRUCES, NEW MEXICO  
**DOÑA ANA COUNTY OEM EMERGENCY OPERATIONS CENTER**  
TORTUGAS TRAIL - LAS CRUCES, NM  
PROJECT DETAILS

MICHEL D. JOHNSON  
NEW MEXICO  
REGISTERED PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
MJ	DIF	MJ

Date: December 2024  
Scale: Horiz: AS SHOWN  
Vert:  
Project No: 9331490  
Sheet: C607

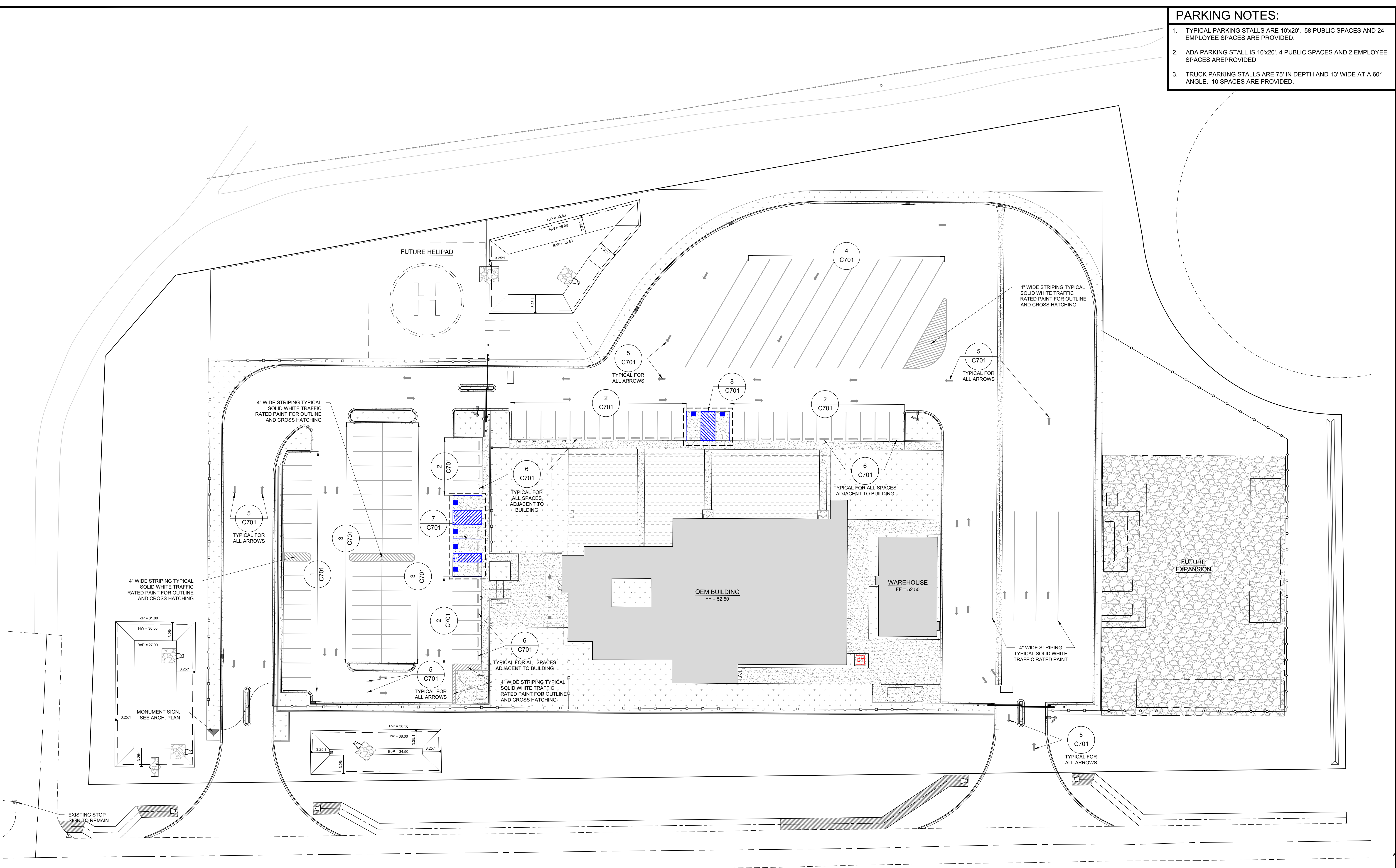
**PARKING NOTES:**

1. TYPICAL PARKING STALLS ARE 10'x20'. 58 PUBLIC SPACES AND 24 EMPLOYEE SPACES ARE PROVIDED.
2. ADA PARKING STALL IS 10'x20'. 4 PUBLIC SPACES AND 2 EMPLOYEE SPACES ARE PROVIDED.
3. TRUCK PARKING STALLS ARE 75' IN DEPTH AND 13' WIDE AT A 60° ANGLE. 10 SPACES ARE PROVIDED.

Rev #	Date	Description	By	CHKD
A	11/16/24	INITIAL SUBMITTAL	DIF	NJ
B	12/16/24	90% SUBMITTAL	DIF	NJ

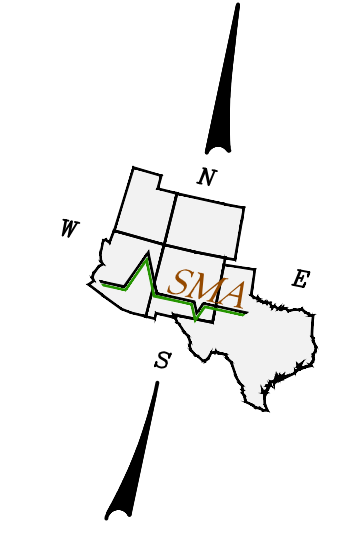
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DOÑA ANA COUNTY  
 LAS CRUCES, NEW MEXICO  
**DOÑA ANA COUNTY OEM EMERGENCY OPERATIONS CENTER**  
 TORTUGAS TRAIL - LAS CRUCES, NM  
**STRIPING & SIGNAGE PLAN**



**STRIPING & SIGNAGE PLAN**  
 SCALE: 1" = 30'

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**To Request a Line Locate Dial 811**

New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.

12/16/24

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Designed	Drawn	Checked
MJ	DIF	MJ

Date: December 2024  
 Scale: Horiz: AS SHOWN  
 Vert: AS SHOWN  
 Project No: 9331490  
 Sheet: C700

**PARKING NOTES:**

1. TYPICAL PARKING STALLS ARE 9'x18'. 4 PUBLIC SPACES AND 17 EMPLOYEE SPACES ARE PROVIDED.
2. ADA PARKING STALL IS 11'x18'. 2 SPACES PROVIDED

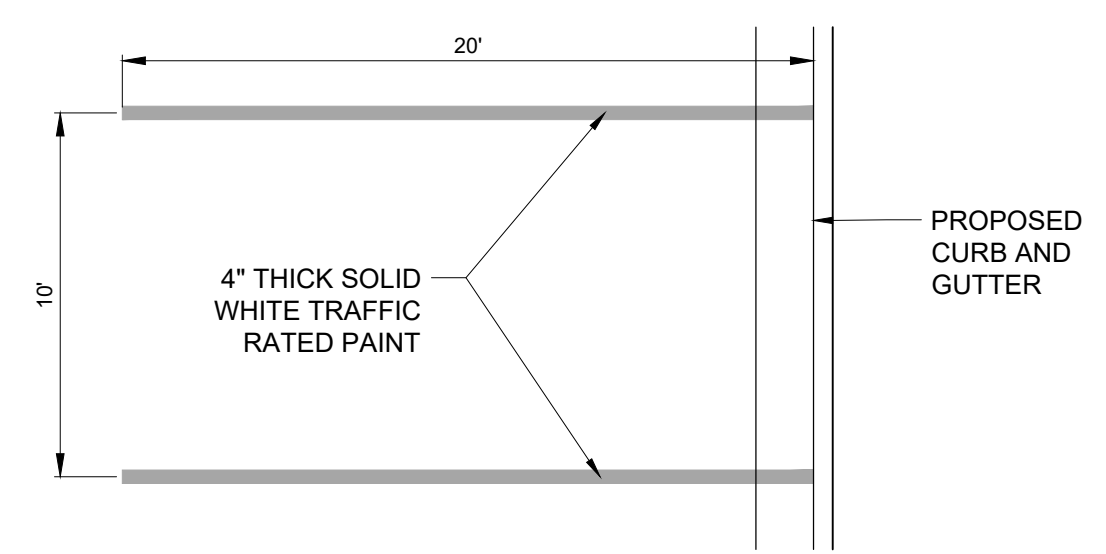
By	CHKD
DIF	NJ
DIF	NJ
DIF	NJ

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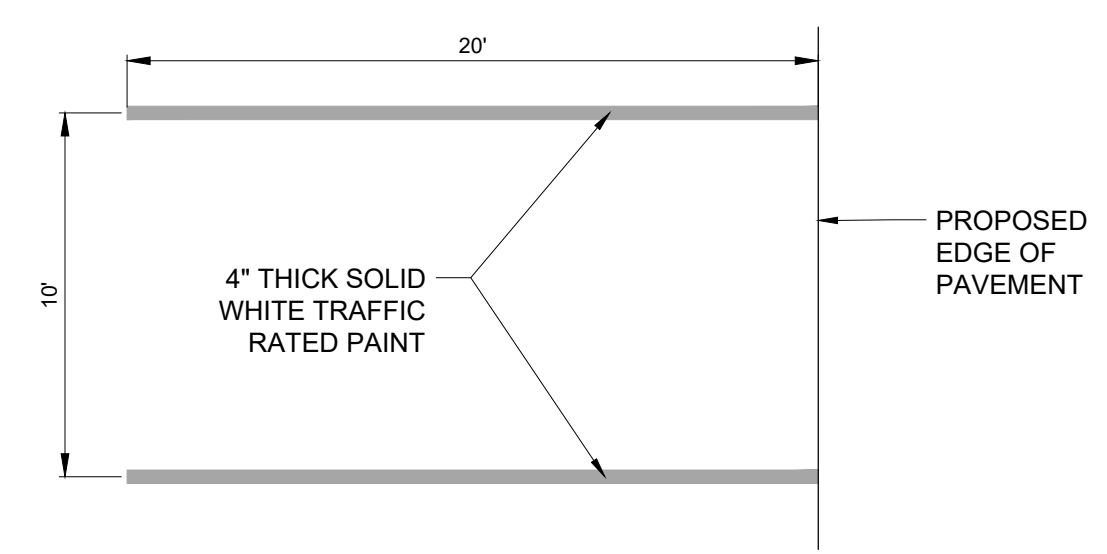
LAS CRUCES, NEW MEXICO  
 DOÑA ANA COUNTY OEM EMERGENCY OPERATIONS CENTER  
 TORTUGAS TRAIL - LAS CRUCES, NM  
 STRIPING & SIGNAGE DETAILS

DOÑA ANA COUNTY  
 MICHEL D. JOHNSON  
 REGISTERED PROFESSIONAL ENGINEER  
 12/16/24

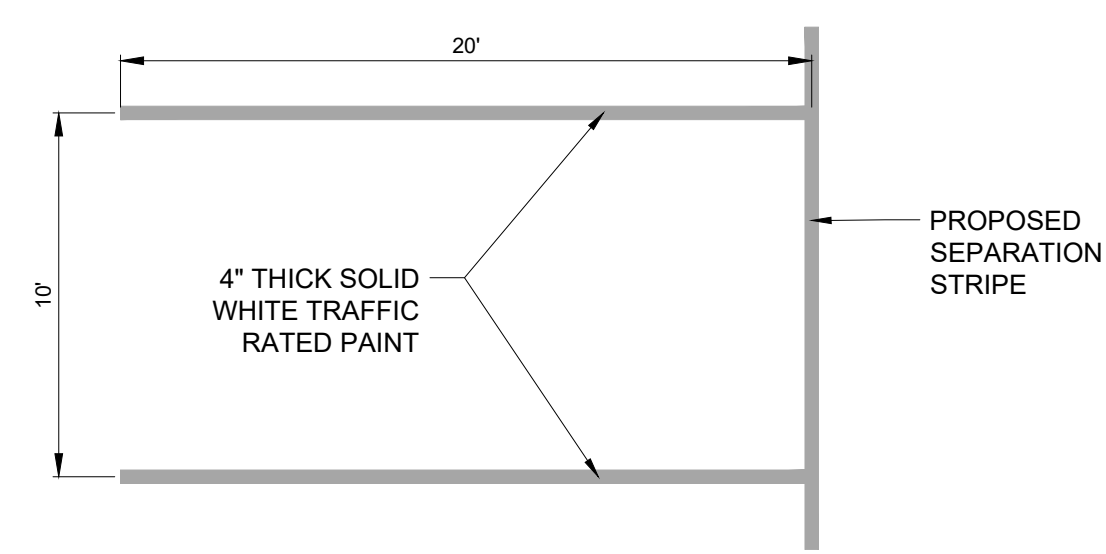
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED		
Designed	Drawn	Checked
MJ	DIF	MJ
Date:	December 2024	
Scale:	Horiz: AS SHOWN	
Project No:	9331490	
Sheet:	C701	



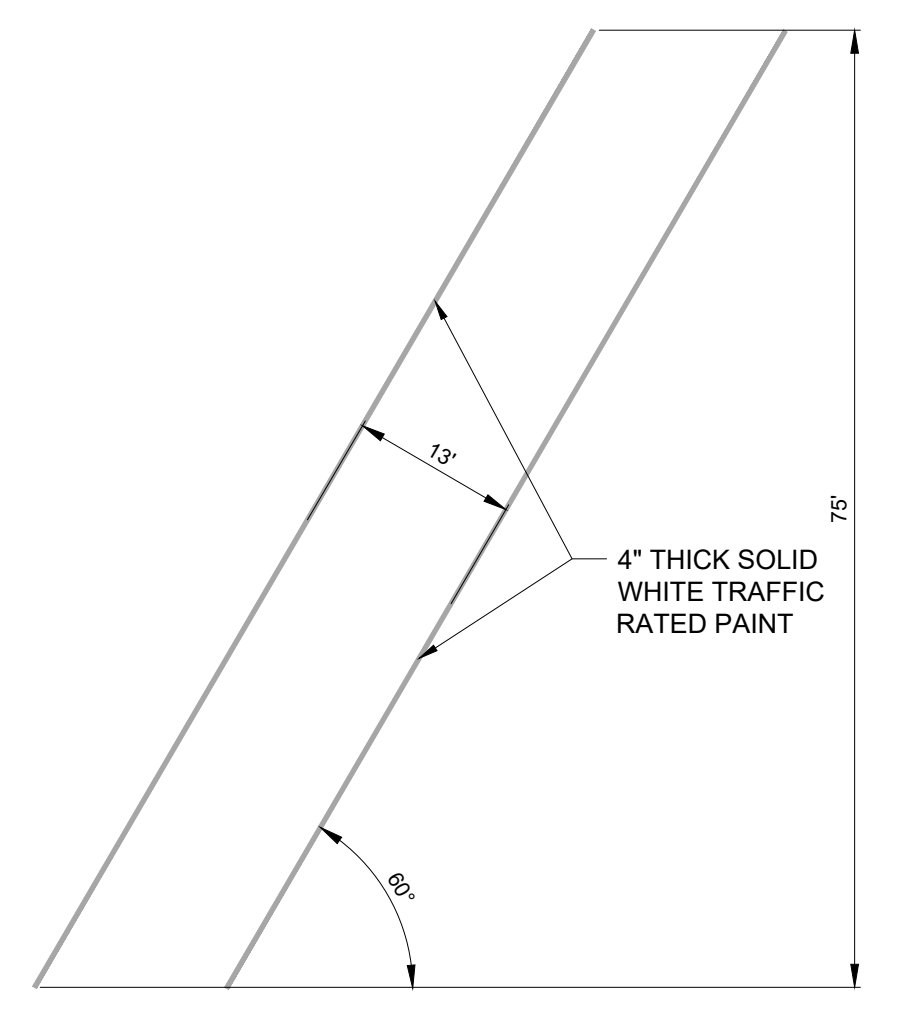
1 TYPICAL PARKING SPACE W/ CURB  
 C701 SCALE: N.T.S.



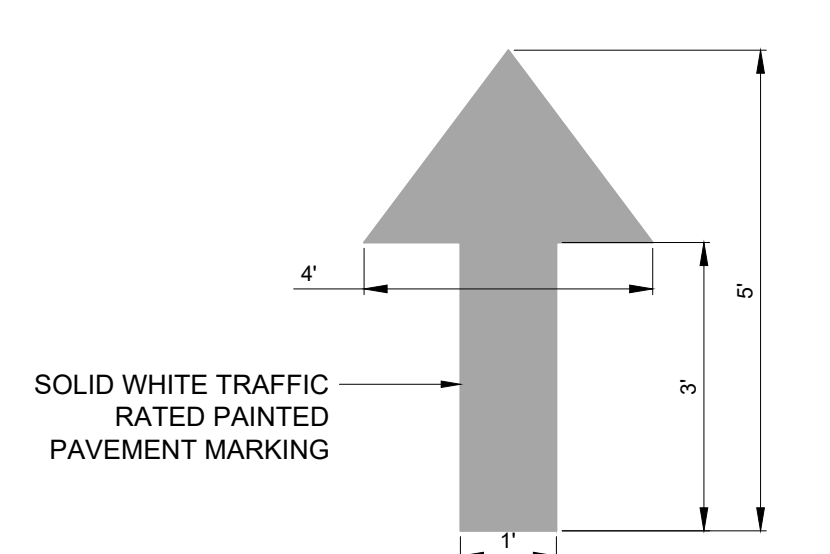
2 TYPICAL PARKING SPACE W/O CURB  
 C701 SCALE: N.T.S.



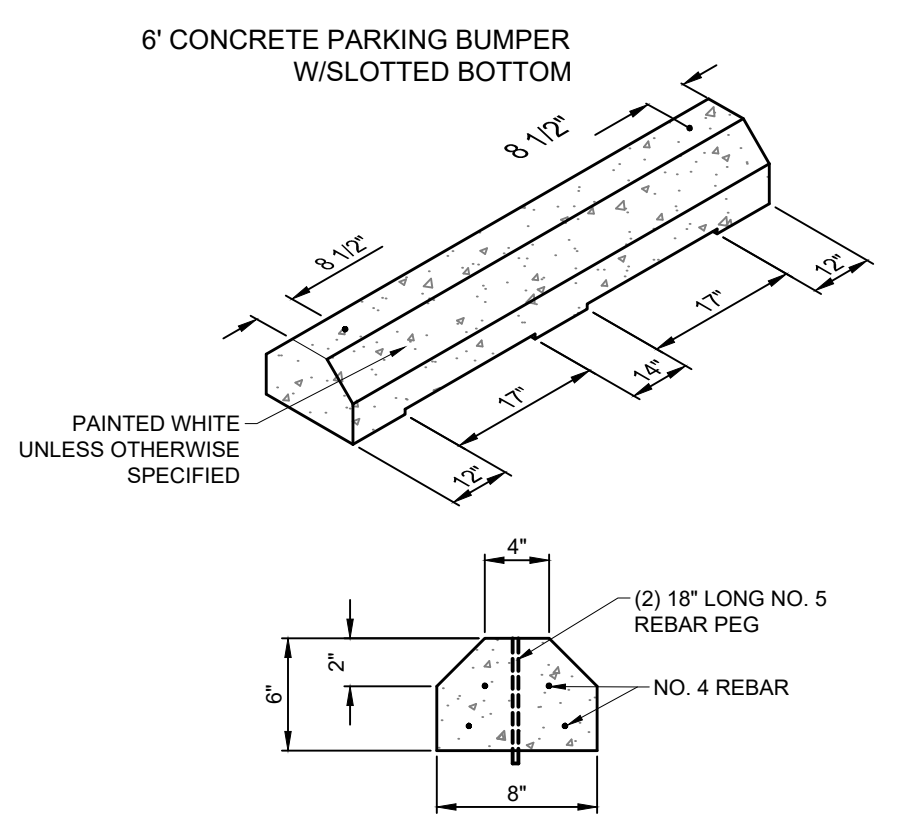
3 TYPICAL PARKING SPACE W/ STRIPE  
 C701 SCALE: N.T.S.



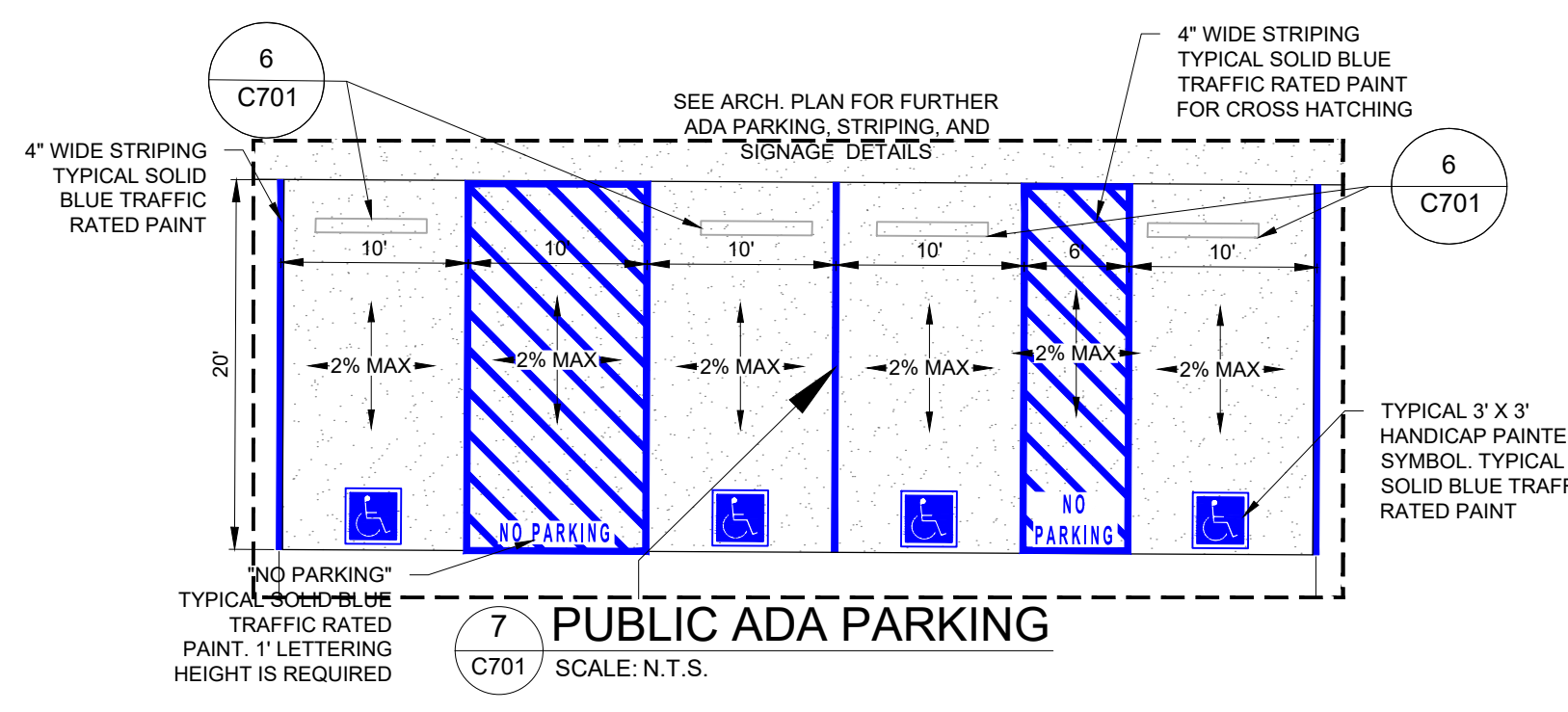
4 TYPICAL TRUCK PARKING SPACE  
 C701 SCALE: N.T.S.



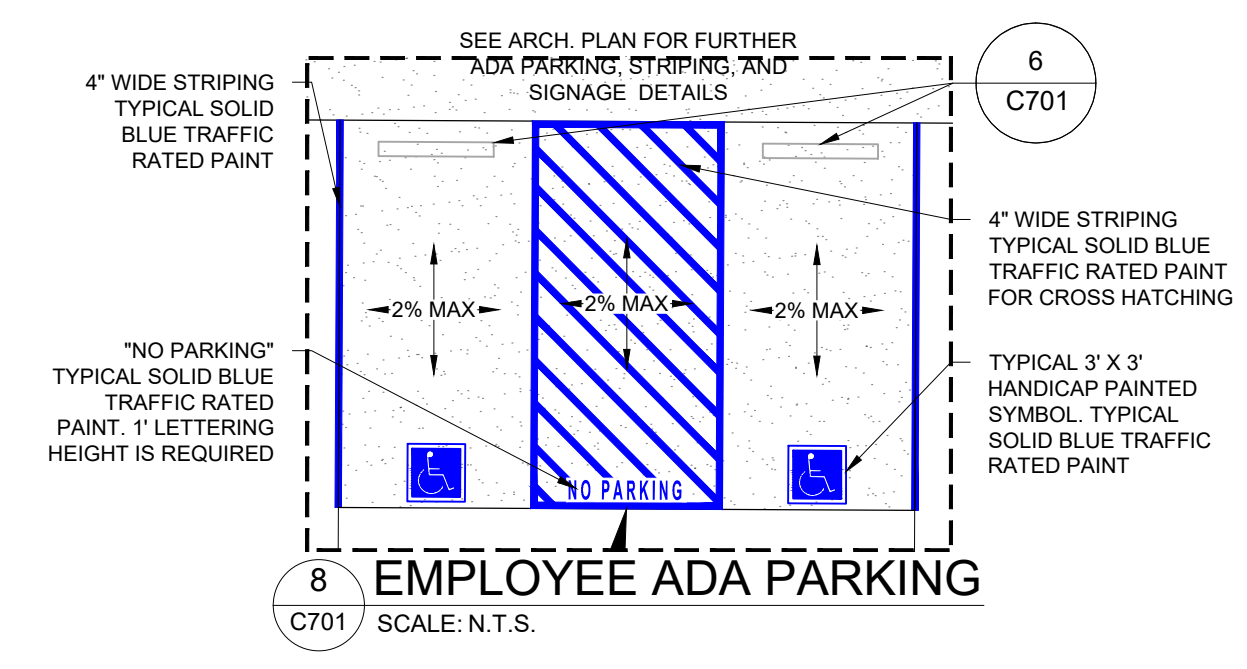
5 PAVEMENT ARROW MARKING  
 C701 SCALE: N.T.S.



6 TYPICAL PARKING BUMPER  
 C701 SCALE: N.T.S.

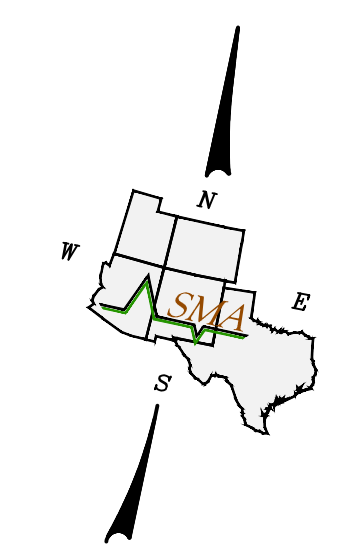


7 PUBLIC ADA PARKING  
 C701 SCALE: N.T.S.

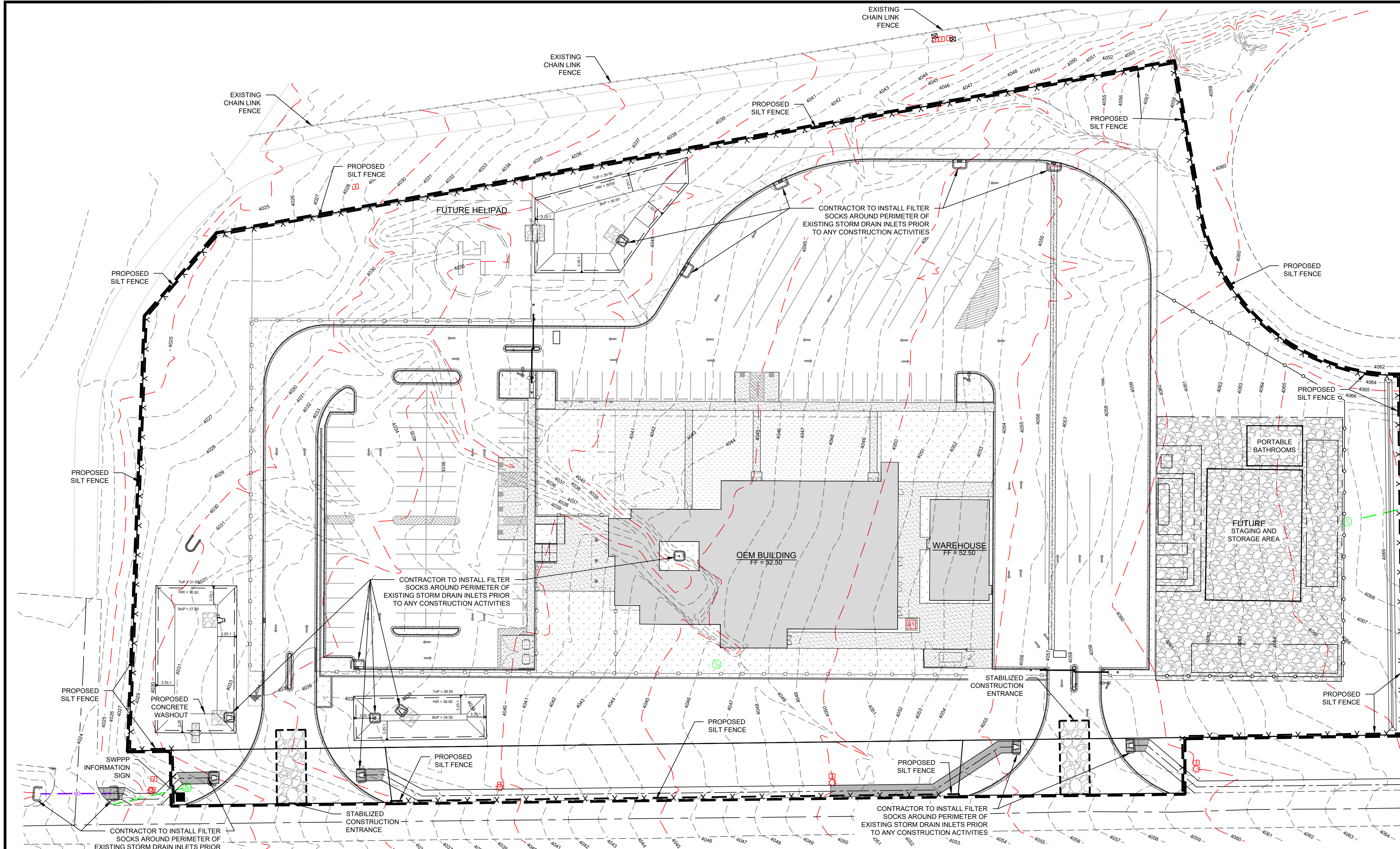


8 EMPLOYEE ADA PARKING  
 C701 SCALE: N.T.S.

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To Request a Line Locate Dial 811  
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**LEGEND**

- 4005 = EXISTING MAJOR CONTOUR
- 4002 = EXISTING MINOR CONTOUR
- = PROPERTY LINE
- - - - = PROJECT LIMITS
- [Pattern] = STABILIZED CONSTRUCTION ENTRANCE
- X - X - X - = PROPOSED SILT FENCE
- [Symbol] = EXISTING CHAIN LINK FENCE

**PROJECT AREA:**

- TOTAL SITE AREA = 7.45 AC.
- TOTAL DISTURBED AREA = 7.45 AC.

- GENERAL EROSION NOTES:**
1. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE NPDES/SPA GENERAL PERMIT AND BECOME FAMILIAR WITH THEIR CONTENTS.
  2. GENERAL CONTRACTOR SHALL IMPLEMENT STORM WATER CONTROLS AS REQUIRED BY NPDES. ADDITIONAL STORM WATER CONTROLS SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER, THROUGHOUT CONSTRUCTION.
  3. STORM WATER CONTROLS SHALL CONFORM TO FEDERAL, STATE AND LOCAL REQUIREMENTS OR MANUAL OF PRACTICE. AS APPLICABLE, GENERAL CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
  4. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
  5. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, AND PAINTING-PLASTER TOOLS CLEANING) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
  6. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOATING BLOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS OR LEAKS.
  7. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
  8. RUBBISH, TRASH, CARBIDE LITTER OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE.
  9. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS SITE MAP SHALL BE INITIATED AS SOON AS PRACTICABLE. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED. THESE AREAS SHALL BE STABILIZED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRENCE IN THESE AREAS.
  10. IF THE ACTION OF VEHICLE TRAVELING OVER THE CONSTRUCTION ENTRANCE/EXIT IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF SITE.
  11. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND OVER EXCAVATION FOR BUILDING FOOTINGS.
  12. DUE TO THE CHANGE IN GRADING AND THE REQUIREMENTS OF CONSTRUCTION OPERATIONS THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE STORM WATER CONTROLS (STRAW WADDELS, EARTH BERMS, ETC.) TO PREVENT EROSION ON A DAILY BASIS AS PER CONSTRUCTION SCHEDULE.

- GOOD HOUSE KEEPING PRACTICES:**
1. THE CONTRACTOR SHALL ESTABLISH A CONCRETE WASHOUT PIT BEFORE THE START OF CONSTRUCTION AND MARK ITS LOCATION ON THE SITE MAP.
  2. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED AT THE SITE ENTRANCE AS DETERMINED BY THE CONTRACTOR.
  3. THE CONTRACTOR SHALL ESTABLISH A COMPREHENSIVE DUST CONTROL PLAN TO LIMIT OFF-SITE SEDIMENTATION BY CONTROLLING THE SITES POTENTIAL FOR PRODUCING AIRBORNE FUGITIVE DUST AND TRACK-OUT OF SEDIMENTS.
  4. SANITARY FACILITIES ARE REQUIRED AT ALL WORK SITES OR CONSTRUCTION AREAS.
  5. SOLID WASTE MATERIALS SHALL BE STORED AND DISPOSED OF WITHIN DUMPSTER RENTED FROM AND COLLECTED BY A PRIVATE WASTE DISPOSAL CONTRACTOR. NO CONSTRUCTION WASTE MATERIALS SHALL BE DISPOSED OF OR BURIED ON-SITE.
  6. THE CONTRACTOR SHALL ESTABLISH AN EROSION CONTROL PLAN TO REDUCE CONTAMINATION OF ON-SITE SOILS.
  7. CONSTRUCTION MATERIALS AND CHEMICALS SHALL BE SHELTERED IN COVERED STORAGE AREAS THAT HAVE A SILL PROOF PERIMETER AROUND IT. LOCATE CHEMICAL STORAGE AREAS AWAY FROM LOW-LYING AREAS AND DRAINAGE PATHS.
  8. THE CONTRACTOR SHALL ESTABLISH A SPILL PREVENTION PLAN THAT INCLUDES MEASURES TO LIMIT THE SCOPE OF A SPILL AND MINIMIZE ENVIRONMENTAL DAMAGE. IN THE EVENT OF A SPILL OF A HAZARDOUS SUBSTANCE, THE RESPONSIBLE PARTY SHALL IMMEDIATELY NOTIFY THE NATIONAL RESPONSE CENTER (800-424-8802 OR 202-426-2675), THE NEW MEXICO ENVIRONMENT DEPARTMENT (EMERGENCY LINE: 505-827-9329, NON-EMERGENCY LINE: 866-428-6535), AND THE LOCAL FIRE DEPARTMENT (575-437-0071).

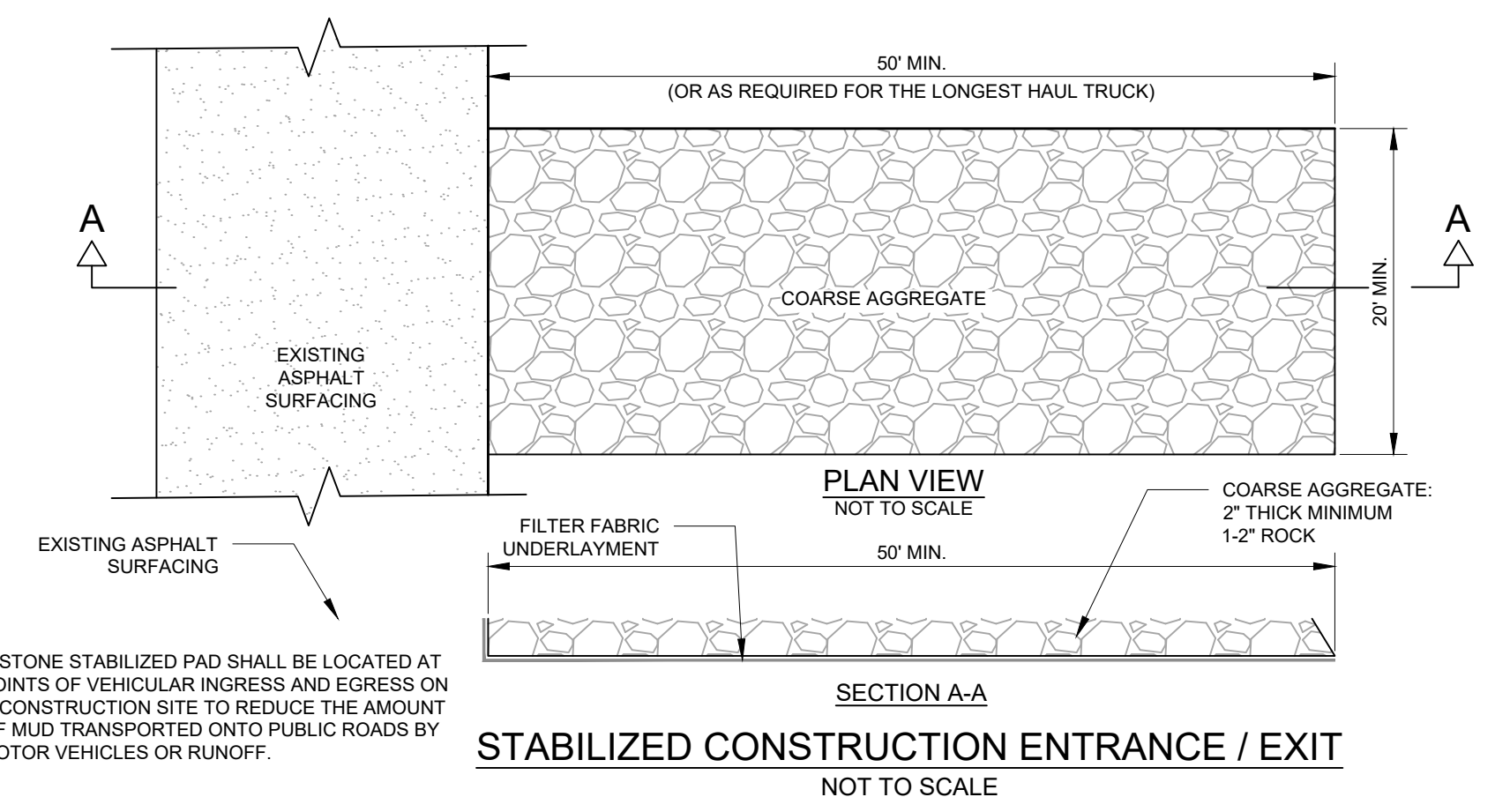
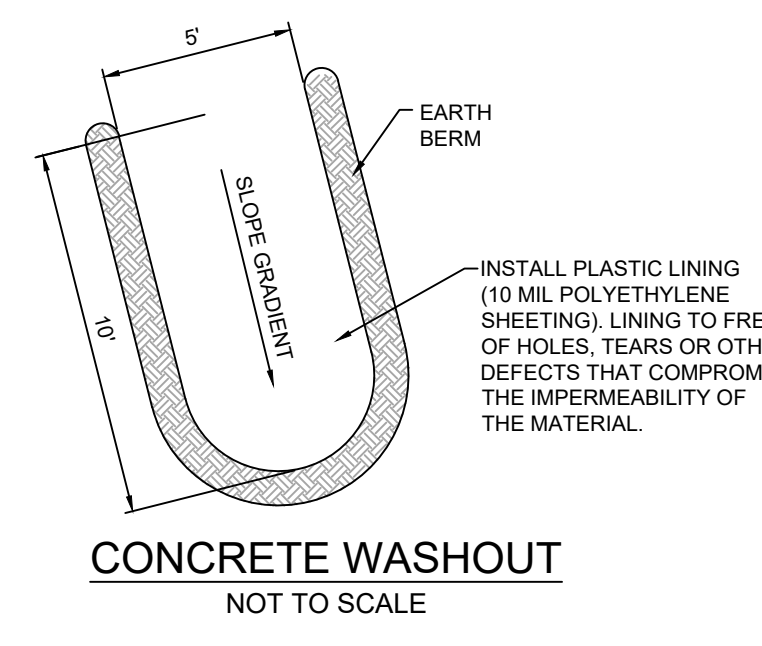
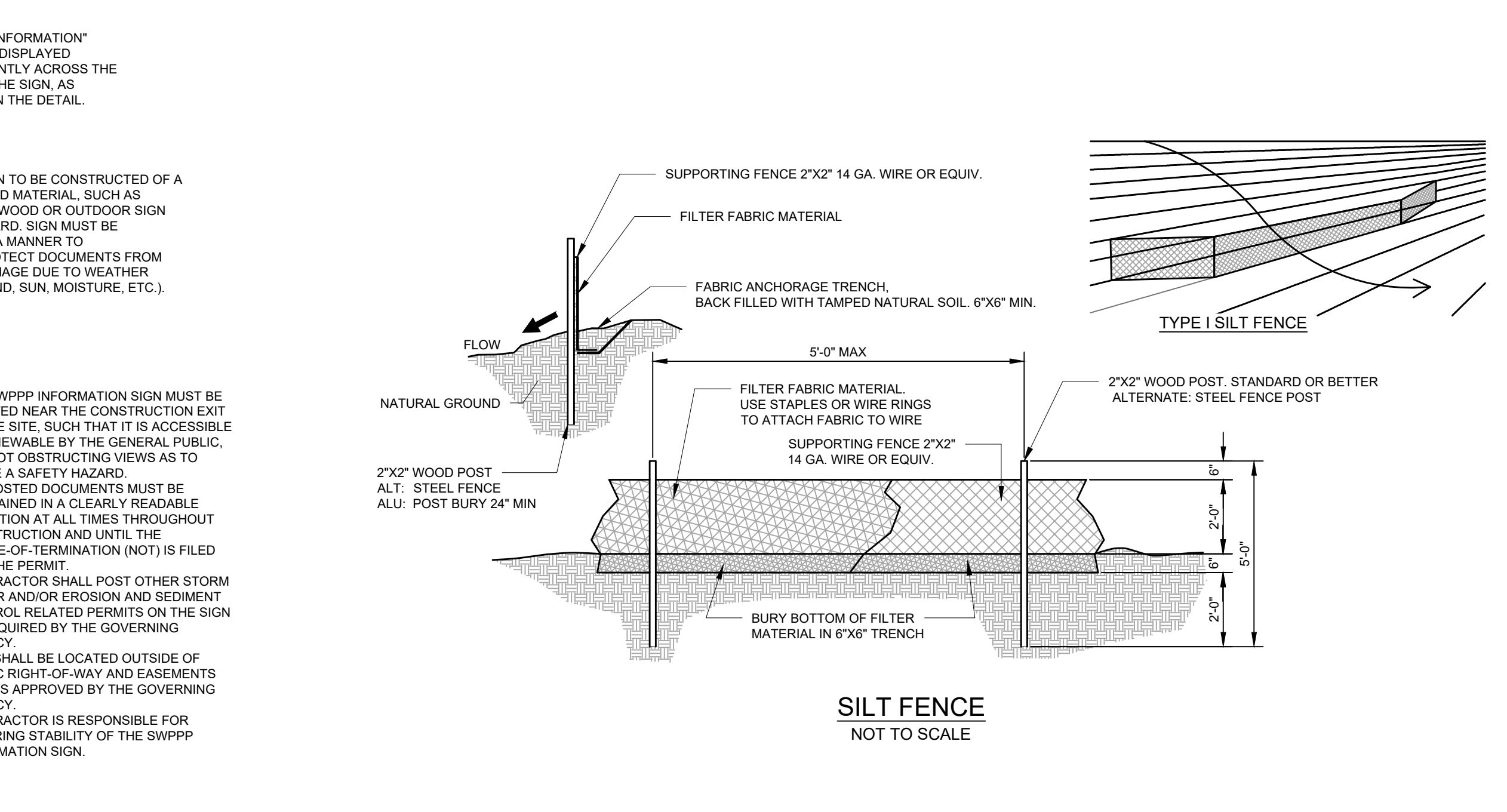
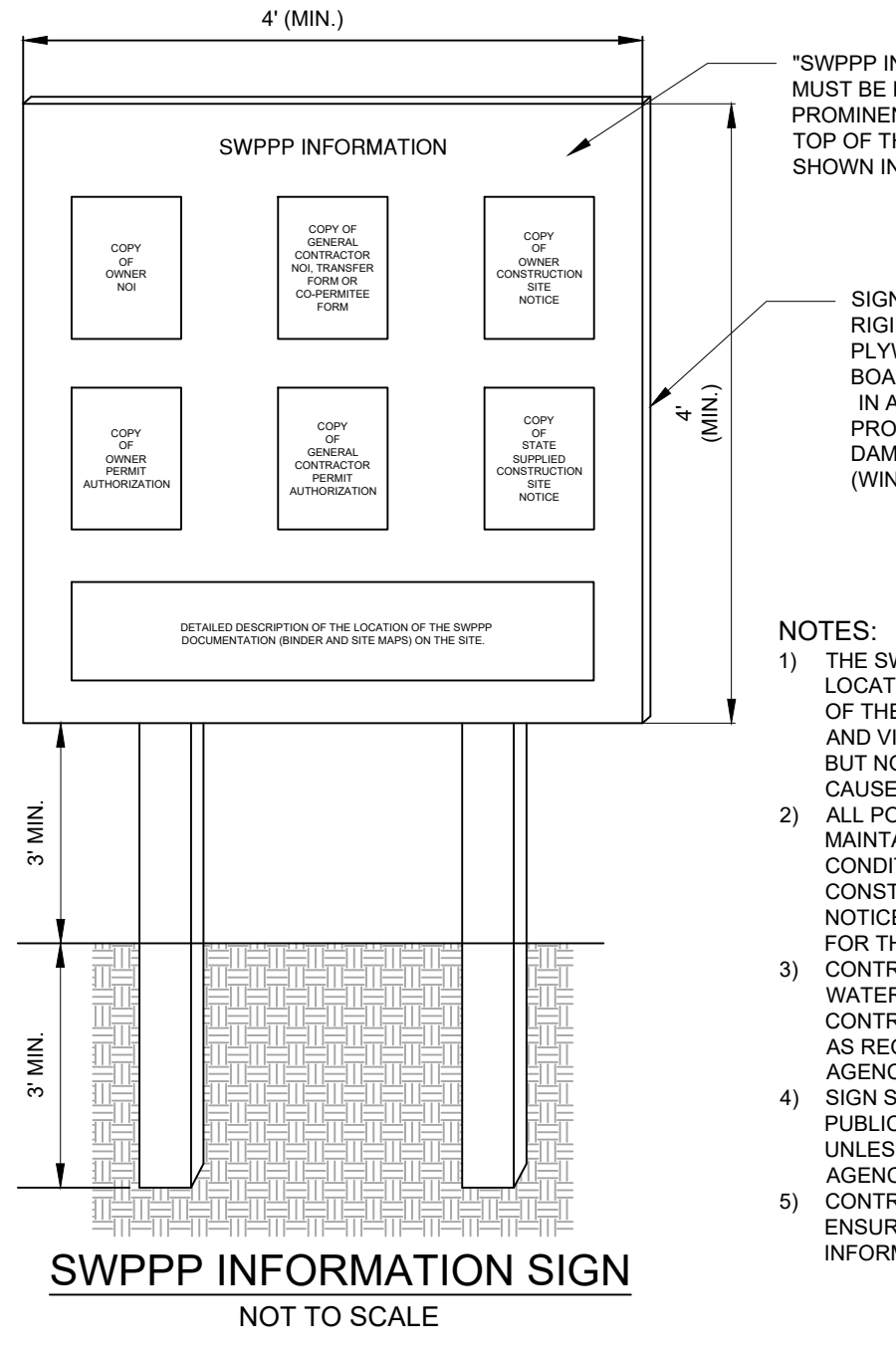
- MAINTENANCE:**
- ALL STORM WATER CONTROLS STATED ON THIS SITE MAP SHALL BE MAINTAINED IN FULL FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL STORM WATER CONTROLS SHALL BE CHECKED AND REPAIRED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE NPDES/SPA PERMIT REQUIREMENTS.
1. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCES AND WADDELS WHEN IT REACHES 1/2 THE HEIGHT, OR AS NECESSARY FOR MAINTENANCE PURPOSES. SEDIMENT SHALL BE CLEANED, OR REPLACED, IF NECESSARY.
  2. INSPECTIONS SHALL BE CONDUCTED EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A 0.25" RAIN EVENT.
  3. BERM SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BERM.
  4. AT 2% FRONTAL SLOPE THERE IS A CONVEYANCE CAPACITY OF 16 SQUARE FEET PER LINEAR FOOT.
  5. HARDENED CONCRETE SHALL BE REMOVED FROM CONCRETE WASHOUT AREA ON A REGULAR BASIS.
  6. THE CONSTRUCTION ENTRANCE/EXIT SHALL BE PERIODICALLY RE-GRADED AND/OR TOP DRESSED WITH ADDITIONAL STONE TO KEEP THE EFFICIENCY OF THE ENTRANCE/EXIT FROM DIMINISHING, WHEN SEDIMENT HAS SUBSTANTIALLY CLOGGED THE VOID AREA BETWEEN THE ROCKS. THE AGGREGATE MUST BE WASHED DOWN AND/OR REPLACED.
  7. CONSTRUCTION ENTRANCE/EXIT AREA SHALL BE INSPECTED FOR OFF-SITE TRACKING AND SWEEP AS NECESSARY.
  8. SANITARY WASTES SHALL BE COLLECTED FROM PORTABLE SANITARY FACILITIES NOT LESS THAN ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY STATE AND LOCAL REGULATIONS.
  9. SOLID WASTE COLLECTION SHALL NOT BE LESS THAN BI-WEEKLY OR MORE OFTEN IF NECESSARY.
  10. THE STORAGE/STAGING AND MASON'S AREAS SHALL BE CLEARED OF DEBRIS. ANY DEBRIS AND/OR SEDIMENT REACHING THE PUBLIC STREET SHALL BE CLEARED IMMEDIATELY BY A METHOD OTHER THAN FLUSHING.

- SEQUENCE OF CONSTRUCTION:**
- DESCRIBED BELOW ARE THE MAJOR CONSTRUCTION ACTIVITIES THAT ARE THE SUBJECT TO THIS PLAN. ALSO INCLUDED IN THE SEQUENCE ARE STORM WATER CONTROLS INSTALLATION ACTIVITIES THAT MUST TAKE PLACE PRIOR TO CONSTRUCTION ACTIVITIES. **NOTE: DOWN SLOPE PROTECTIVE MEASURES MUST ALWAYS BE IN PLACE BEFORE SOIL IS DISTURBED.** ACTIVITIES ARE PRESENTED IN THE SEQUENCE THEY ARE EXPECTED TO BE COMPLETED. CONTRACTOR TO IMMEDIATELY DENOTE ON THIS PLAN ANY CHANGES IN STORM WATER CONTROL LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. THE SEQUENCE OF CONSTRUCTION IS AS FOLLOWS:
1. INSTALL SWPPP INFORMATION SIGN.
  2. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT.
  3. INSTALL FILTER SOCKS.
  4. PREPARE STORAGE/STAGING AND MASON'S AREAS. UPON IMPLEMENTATION AND INSTALLATION, DENOTE THE FOLLOWING AREAS ON THIS PLAN: TRAILER PARKING, PORTABLE SANITARY FACILITIES, WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, AND SOLID WASTE CONTAINERS.
  5. INSTALL RETENTION PONDS.
  6. INSTALL SILT FENCE.
  7. STOCKPILE SEDIMENT.
  8. CLEAR AND GRUB THE SITE.
  9. BEGIN GRADING THE SITE.
  10. CONSTRUCTION OF PROPOSED NEW ADDITIONS.
  11. INSTALL NEW PAVEMENT.
  12. TEMPORARY STABILIZE STOCKPILE AREAS.
  13. APPLY PERMANENT STABILIZATION.
  14. INSPECT AND CLEAN-UP SITE.
  15. REMOVE TEMPORARY STORM WATER CONTROLS (ONLY IF SITE IS "FINAL STABILIZED" AS PER 2022 CGP).
  16. FILE OWNER AND OPERATOR NOTICE OF TERMINATION (NOT).
- THE ACTUAL SCHEDULE FOR IMPLEMENTING STORM WATER CONTROLS WILL BE DETERMINED BY PROJECT CONSTRUCTION PROGRESS AND RECORDED BY THE CONTRACTOR ON THE SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE ON THIS PLAN.

**PONDING:**

IF PONDS ARE TO BE USED FOR STORM WATER CONTROL DURING CONSTRUCTION, POND SIZE AND VOLUME CALCULATIONS CAN BE FOUND IN THE DRAINAGE REPORT FOR THIS PROJECT.

**EROSION CONTROL PLAN**  
SCALE: 1" = 40'



By: CHK/J  
DIF: NJ  
Description: INITIAL SUBMITTAL  
Date: 11/16/24  
Rev #1: A  
Rev #2: B  
Date: 12/16/24

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DOÑA ANA COUNTY OEM EMERGENCY OPERATIONS CENTER  
TORTUGAS TRAIL - LAS CRUCES, NM  
EROSION CONTROL PLAN

12/16/24  
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Designed: MJ  
Drawn: DIF  
Checked: MJ  
Date: December 2024  
Scale: Horiz: AS SHOWN  
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Project No: 9331490  
Sheet: C900

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# LANDSCAPE ORDINANCE CALCULATIONS

LOT AREA = 324,494 SF  
 NEW BUILDING FOOTPRINT = 17,968 SF  
 LANDSCAPE AREA REQUIRED = 45,979 SF (324,494 SF - 17,968 SF X .15 = 45,979 SF)  
 LANDSCAPE AREA PROVIDED = 58,971 SF  
 LANDSCAPE AREA REQUIRED BETWEEN TORTUGAS TRAIL EAST AND BUILDING = 11,495 SF (25% OF 45,979 SF = 11,495 SF TOTAL REQUIRED)  
 LANDSCAPE AREA PROVIDED BETWEEN TORTUGAS TRAIL EAST AND BUILDING = 56,412 SF

	REQUIRED	PROVIDED	NOTES
TREES	46	80	1 DECIDUOUS TREE, 2"-2.25" CALIPER REQUIRED PER 1,000 SF OF REQUIRED LANDSCAPE AREA (45,979 SF / 1,000 = 46) 20 TREES TO SUBSTITUTED 200 5 GAL. SHRUBS 15 TREES TO SUBSTITUTED 450 1 GAL. SHRUBS
SHRUBS, 5 GAL.	920	720	20 FIVE GALLON SHRUBS REQUIRED PER 1,000 SF OF REQUIRED LANDSCAPE AREA (45,979 SF / 1,000 = 46) (46 X 20 = 920) 20 TREES TO SUBSTITUTED 200 5 GAL. SHRUBS
SHRUBS, 1 GAL.	460	10	10 ONE GALLON SHRUBS REQUIRED PER 1,000 SF OF REQUIRED LANDSCAPE AREA (45,979 SF / 1,000 = 46) (46 X 10 = 460) 15 TREES TO SUBSTITUTED 450 1 GAL. SHRUBS

# PLANT LEGEND

TREES	COMMON NAME	BOTANICAL NAME	MIN. SIZE	MIN. HEIGHT	QTY
	CHASTE TREE MULTI-TRUNK	VITEX AGNUS-CASTUS	2" CAL. / 24" BOX	10'	3
	SWEET ACACIA SINGLE-TRUNK	ACACIA FARNESIANA	2" CAL. / 24" BOX	10'	41
	AFGHAN PINE	PINUS ELДАРICA	2" CAL. / 24" BOX	10'	14
	DESERT MUSEUM PALO VERDE	CERCIDIUM X 'DESERT MUSEUM'	2" CAL. / 24" BOX	10'	6
	MAVERICK THORNLESS HONEY MESQUITE MULTI-TRUNK	PROSOPIS GLANDULOSA 'MAVERICK'	2" CAL. / 24" BOX	10'	3
	ESCARPMENT LIVE OAK	QUERCUS FUSIFORMIS	2" CAL. / 24" BOX	10'	10

NOTE: MULTI-TRUNK TREES SHALL BE 2" CALIPER, WITH CALIPER EQUALING THE DIAMETER OF THE LARGEST TRUNK PLUS HALF THE DIAMETER OF THE NEXT THREE LARGEST TRUNKS

SHRUBS	COMMON NAME	BOTANICAL NAME	SIZE	MIN. HEIGHT	QTY
	COYOTE BUSH	BACCHARIS X 'STARN'	5 GALLON	18"	26
	GOLDEN BARREL CACTUS*	ECHINOCACTUS GRUSONII	1 GALLON LOW-WATER	12"	15
	RUSSIAN SAGE	PEROVSKIA ABROTANOIDES	5 GALLON	18"	121
	BEARGRASS	MICROCARPA NOLINA TEXANA	5 GALLON	18"	106
	ENGELMANN'S PRICKLY PEAR*	OPUNTIA ENGELMANNII	5 GALLON LOW WATER	18"	25
	GIANT HESPERALOE	HESPERALOE FUNIFERA	5 GALLON	18"	9
	SOTOL*	DASYLIRION WHEELERI	5 GALLON LOW WATER	18"	293
	TEXAS MOUNTAIN LAUREL	SOPHORA SECUNDIFLORA	5 GALLON	18"	21
	OCOTILLO*	FOUQUIERIA SPLENDENS	5 GALLON LOW WATER	18"	45
	MEXICAN PETUNIA	RUELLIA NUDIFLORA	5 GALLON	18"	26
	NEW MEXICO AGAVE*	AGAVE NEOMEXICANA	1 GALLON LOW-WATER	12"	10
	WHIRLING BUTTERFLIES GAURA	GAURA LINDHEIMERI 'WHIRLING BUTTERFLIES'	5 GALLON	18"	13

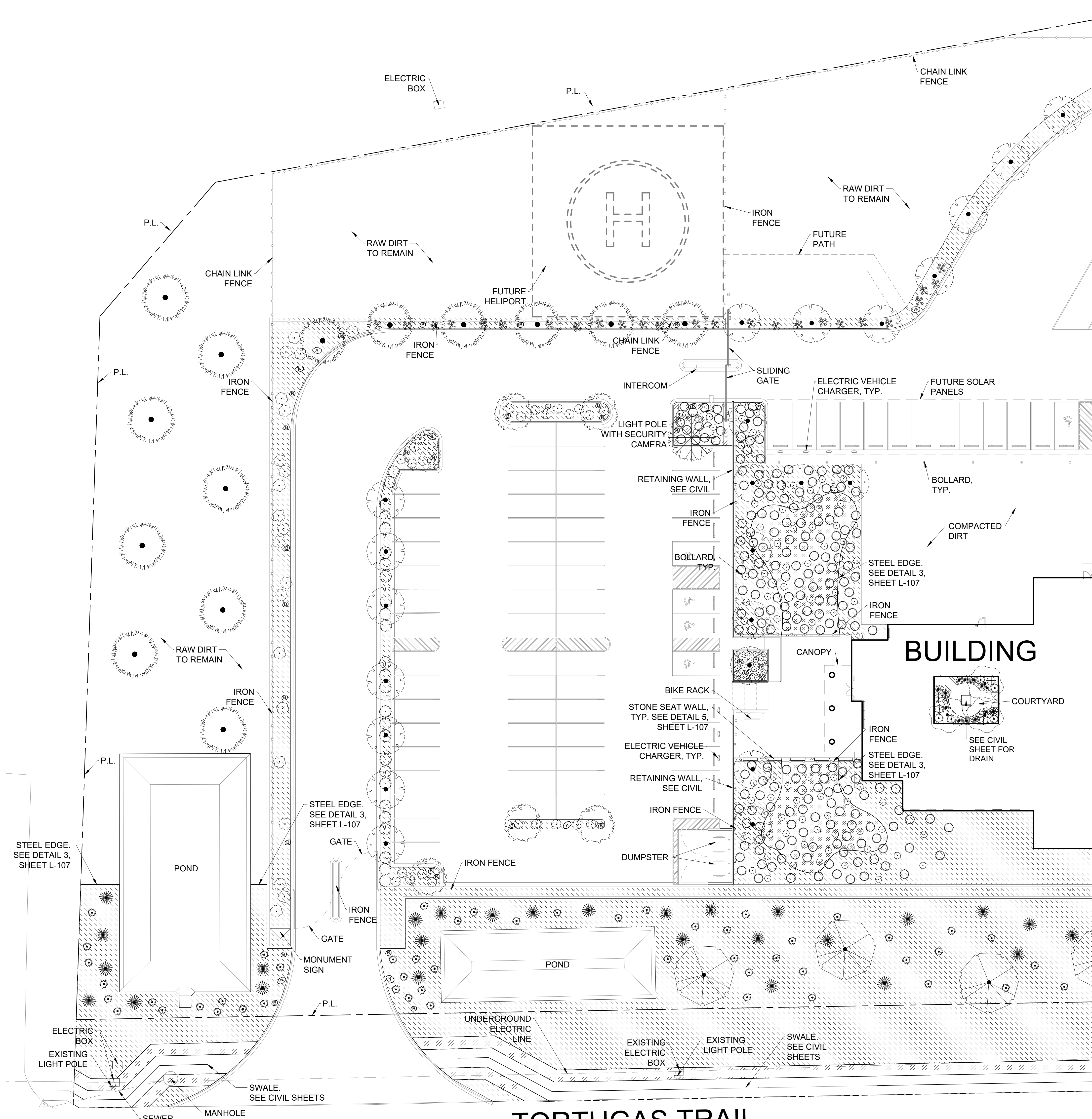
\*SEE IRRIGATION LEGEND FOR WATER REQUIREMENTS FOR LOW WATER-USE PLANTS

# MATERIALS LEGEND

AMENITIES					
SYMBOL	DESCRIPTION	QTY	MODEL	COLOR	DETAIL
	BOULDER A	13	3" MIN.	DESERT TAN	SEE DETAIL 4, SHEET L-107
	BOULDER B	36	EQUAL MIX OF 1' & 2'	DESERT TAN	SEE DETAIL 4, SHEET L-107

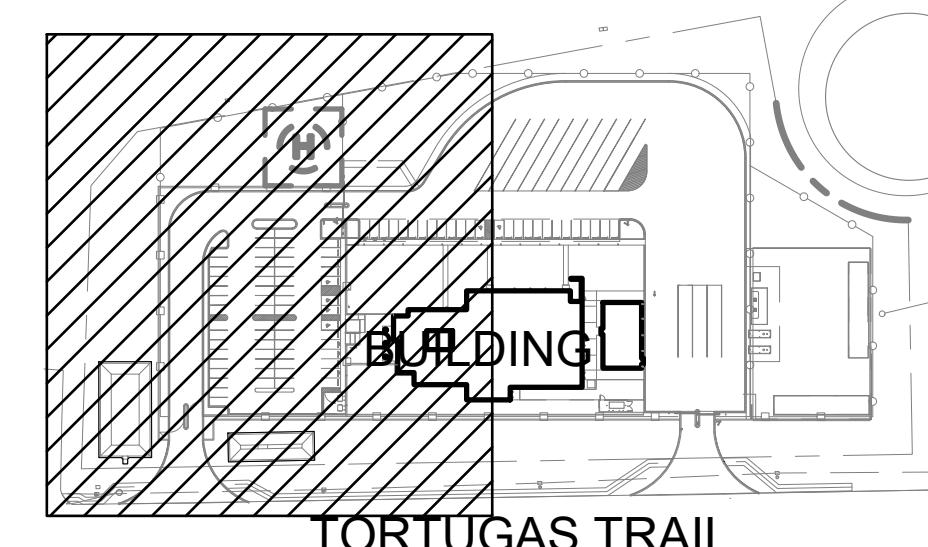
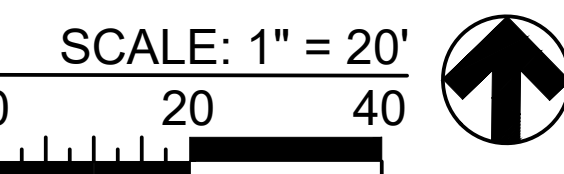
ROCK					
SYMBOL	DESCRIPTION	QTY	COLOR	DEPTH	NOTES
	3/8" ROCK	59,936 SF	GOLDEN BROWN	3"	WITH WEED-BARRIER FABRIC. SEE DETAIL 3, SHEET L-107
	ROCK MIX 75% 2"-4" 25% 3/4"	9,803 SF	TRAIL MIX	4"	WITH WEED-BARRIER FABRIC. SEE DETAIL 3, SHEET L-107

- NOTE:
- CLC INSPECTOR WILL BE REQUIRED PRIOR TO ANY IRRIGATION INSTALLATION(S) NEXT TO ANY CLC UTILITIES TO ENSURE PROPER HORIZONTAL & VERTICAL SEPARATIONS MEET LCU STANDARDS.
  - TREES SHALL HAVE A 10' MINIMUM CLEARANCE FROM ALL CLC UTILITIES (MANS, SERVICES, FIRE HYDRANTS, METERS DUMPSTER ENCLOSURE).
  - CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING & REPLACING ANY CLC UTILITIES IF DAMAGED DURING CONSTRUCTION.



LANDSCAPE PLAN A

TORTUGAS TRAIL



OEM EMERGENCY OPERATIONS CENTER  
 TORTUGAS TRAIL, LAS CRUCES, NM  
 FOR: DOÑA ANA COUNTY  
 845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION	ISSUE
1	11.8.24		

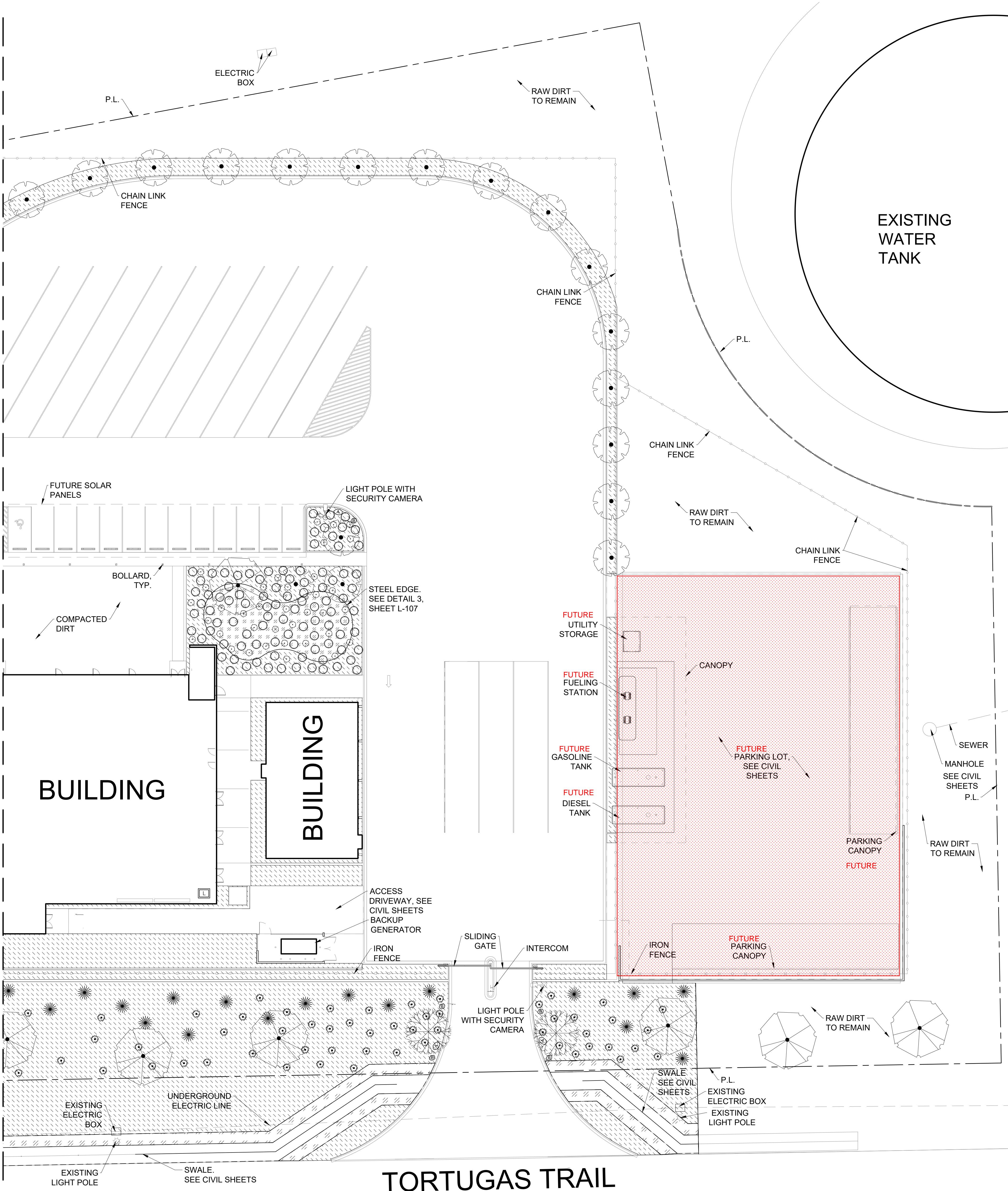
PROJECT NO.: 22115L  
 FILE NAME:  
 DRAWN BY: DL  
 CHECKED BY: JM  
 SHEET TITLE:

LANDSCAPE PLAN A

SHEET NO.:  
**L-101**

P.O. Box 146  
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 p 575.526.3111 f  
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## LANDSCAPE ORDINANCE CALCULATIONS

LOT AREA = 324,494 SF  
 NEW BUILDING FOOTPRINT = 17,968 SF  
 LANDSCAPE AREA REQUIRED = 45,979 SF (324,494 SF - 17,968 SF X .15 = 45,979 SF)  
 LANDSCAPE AREA PROVIDED = 58,971 SF  
 LANDSCAPE AREA REQUIRED BETWEEN TORTUGAS TRAIL EAST AND BUILDING = 11,495 SF (25% OF 45,979 SF = 11,495 SF TOTAL REQUIRED)  
 LANDSCAPE AREA PROVIDED BETWEEN TORTUGAS TRAIL EAST AND BUILDING = 56,412 SF

	REQUIRED	PROVIDED	NOTES
TREES	46	80	1 DECIDUOUS TREE, 2"-2.25" CALIPER REQUIRED PER 1,000 SF OF REQUIRED LANDSCAPE AREA (45,979 SF / 1,000 = 46) 20 TREES TO SUBSTITUTED 200 5 GAL. SHRUBS 15 TREES TO SUBSTITUTED 450 1 GAL. SHRUBS
SHRUBS, 5 GAL.	920	720	20 FIVE GALLON SHRUBS REQUIRED PER 1,000 SF OF REQUIRED LANDSCAPE AREA (45,979 SF / 1,000 = 46) (46 X 20 = 920) 20 TREES TO SUBSTITUTED 200 5 GAL. SHRUBS
SHRUBS, 1 GAL.	460	10	10 ONE GALLON SHRUBS REQUIRED PER 1,000 SF OF REQUIRED LANDSCAPE AREA (45,979 SF / 1,000 = 46) (46 X 10 = 460) 15 TREES TO SUBSTITUTED 450 1 GAL. SHRUBS

## PLANT LEGEND

TREES	COMMON NAME	BOTANICAL NAME	MIN. SIZE	MIN. HEIGHT	QTY
	CHASTE TREE MULTI-TRUNK	VITEX AGNUS-CASTUS	2" CAL. / 24" BOX	10'	3
	SWEET ACACIA SINGLE-TRUNK	ACACIA FARNESIANA	2" CAL. / 24" BOX	10'	41
	AFGHAN PINE	PINUS ELДАРICA	2" CAL. / 24" BOX	10'	14
	DESERT MUSEUM PALO VERDE	CERCIDIUM X 'DESERT MUSEUM'	2" CAL. / 24" BOX	10'	6
	MAVERICK THORNLESS HONEY MESQUITE MULTI-TRUNK	PROSOPIS GLANDULOSA 'MAVERICK'	2" CAL. / 24" BOX	10'	3
	ESCAPMENT LIVE OAK	QUERCUS FUSIFORMIS	2" CAL. / 24" BOX	10'	10

NOTE: MULTI-TRUNK TREES SHALL BE 2" CALIPER, WITH CALIPER EQUALING THE DIAMETER OF THE LARGEST TRUNK PLUS HALF THE DIAMETER OF THE NEXT THREE LARGEST TRUNKS

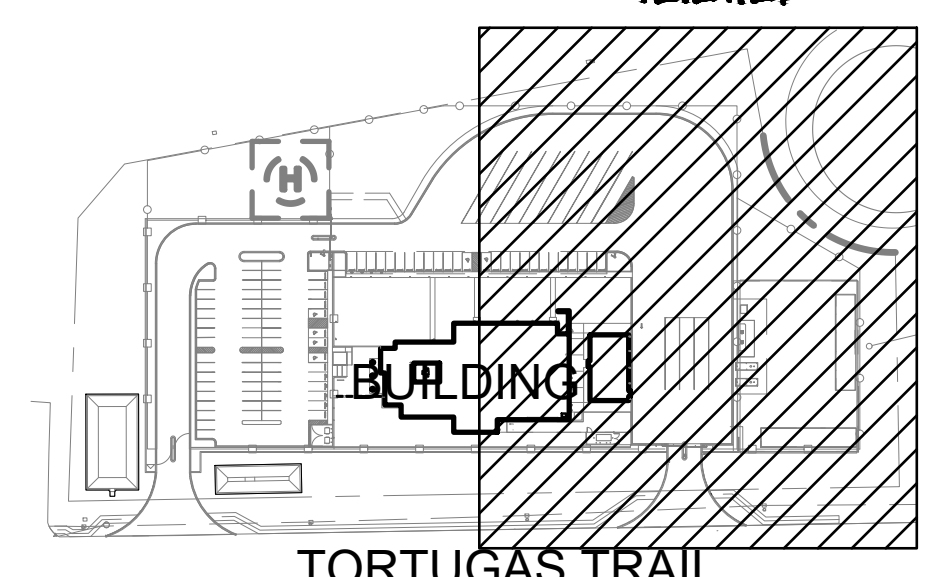
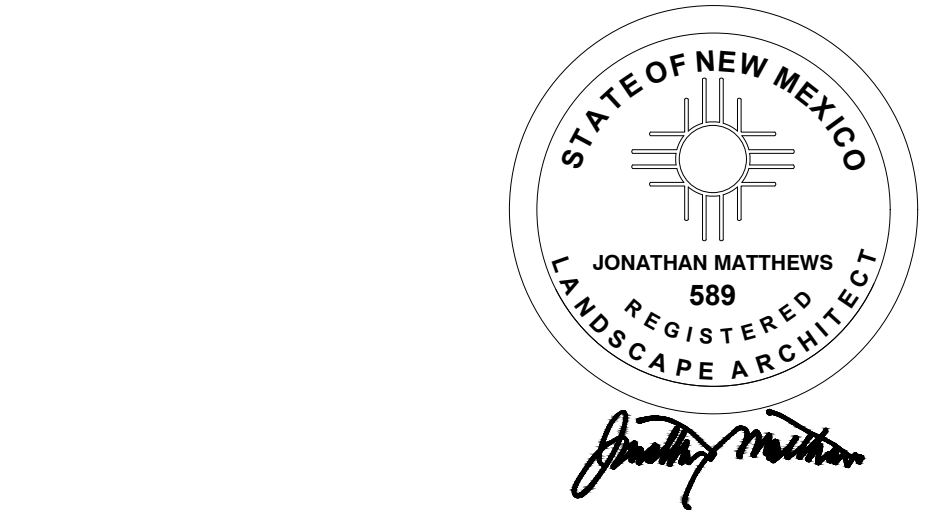
SHRUBS	COMMON NAME	BOTANICAL NAME	SIZE	MIN. HEIGHT	QTY
	COYOTE BUSH	BACCHARIS X 'STARN'	5 GALLON	18"	26
	GOLDEN BARREL CACTUS*	ECHINOCACTUS GRUSONII	1 GALLON LOW-WATER	12"	15
	RUSSIAN SAGE	PEROVSKIA ABROTANOIDES	5 GALLON	18"	121
	BEARGRASS	MICROCARPA NOLINA TEXANA	5 GALLON	18"	106
	ENGELMANN'S PRICKLY PEAR*	OPUNTIA ENGELMANNII	5 GALLON LOW WATER	18"	25
	GIANT HESPERALOE	HESPERALOE FUNIFERA	5 GALLON	18"	9
	SOTOL*	DASYLIRION WHEELERI	5 GALLON LOW WATER	18"	293
	TEXAS MOUNTAIN LAUREL	SOPHORA SECUNDIFLORA	5 GALLON	18"	21
	OCOTILLO*	FOUQUIERIA SPLENDENS	5 GALLON LOW WATER	18"	45
	MEXICAN PETUNIA	RUELLIA NUDIFLORA	5 GALLON	18"	26
	NEW MEXICO AGAVE*	AGAVE NEOMEXICANA	1 GALLON LOW-WATER	12"	10
	WHIRLING BUTTERFLIES GAURA	GAURA LINDHEIMERI 'WHIRLING BUTTERFLIES'	5 GALLON	18"	13

\*SEE IRRIGATION LEGEND FOR WATER REQUIREMENTS FOR LOW WATER-USE PLANTS

## MATERIALS LEGEND

AMENITIES					
SYMBOL	DESCRIPTION	QTY	MODEL	COLOR	DETAIL
	BOULDER A	13	3' MIN.	DESERT TAN	SEE DETAIL 4, SHEET L-107
	BOULDER B	36	EQUAL MIX OF 1' & 2'	DESERT TAN	SEE DETAIL 4, SHEET L-107
ROCK					
SYMBOL	DESCRIPTION	QTY	COLOR	DEPTH	NOTES
	3/8" ROCK	59,936 SF	GOLDEN BROWN	3"	WITH WEED-BARRIER FABRIC. SEE DETAIL 3, SHEET L-107
	ROCK MIX 75% 2"-4" 25% 3/4"	9,803 SF	TRAIL MIX	4"	WITH WEED-BARRIER FABRIC. SEE DETAIL 3, SHEET L-107

- NOTE:
- CLC INSPECTOR WILL BE REQUIRED PRIOR TO ANY IRRIGATION INSTALLATION(S) NEXT TO ANY CLC UTILITIES TO ENSURE PROPER HORIZONTAL & VERTICAL SEPARATIONS MEET LCU STANDARDS.
  - TREES SHALL HAVE A 10' MINIMUM CLEARANCE FROM ALL CLC UTILITIES (MAINS, SERVICES, FIRE HYDRANTS, METERS DUMPSTER ENCLOSURE).
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OEM EMERGENCY OPERATIONS CENTER  
 TORTUGAS TRAIL, LAS CRUCES, NM

FOR: DOÑA ANA COUNTY  
 845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION

PROJECT NO.: 22115L  
 FILE NAME:  
 DRAWN BY: DL  
 CHECKED BY: JM  
 SHEET TITLE:

LANDSCAPE PLAN B

SHEET NO.:  
**L-102**

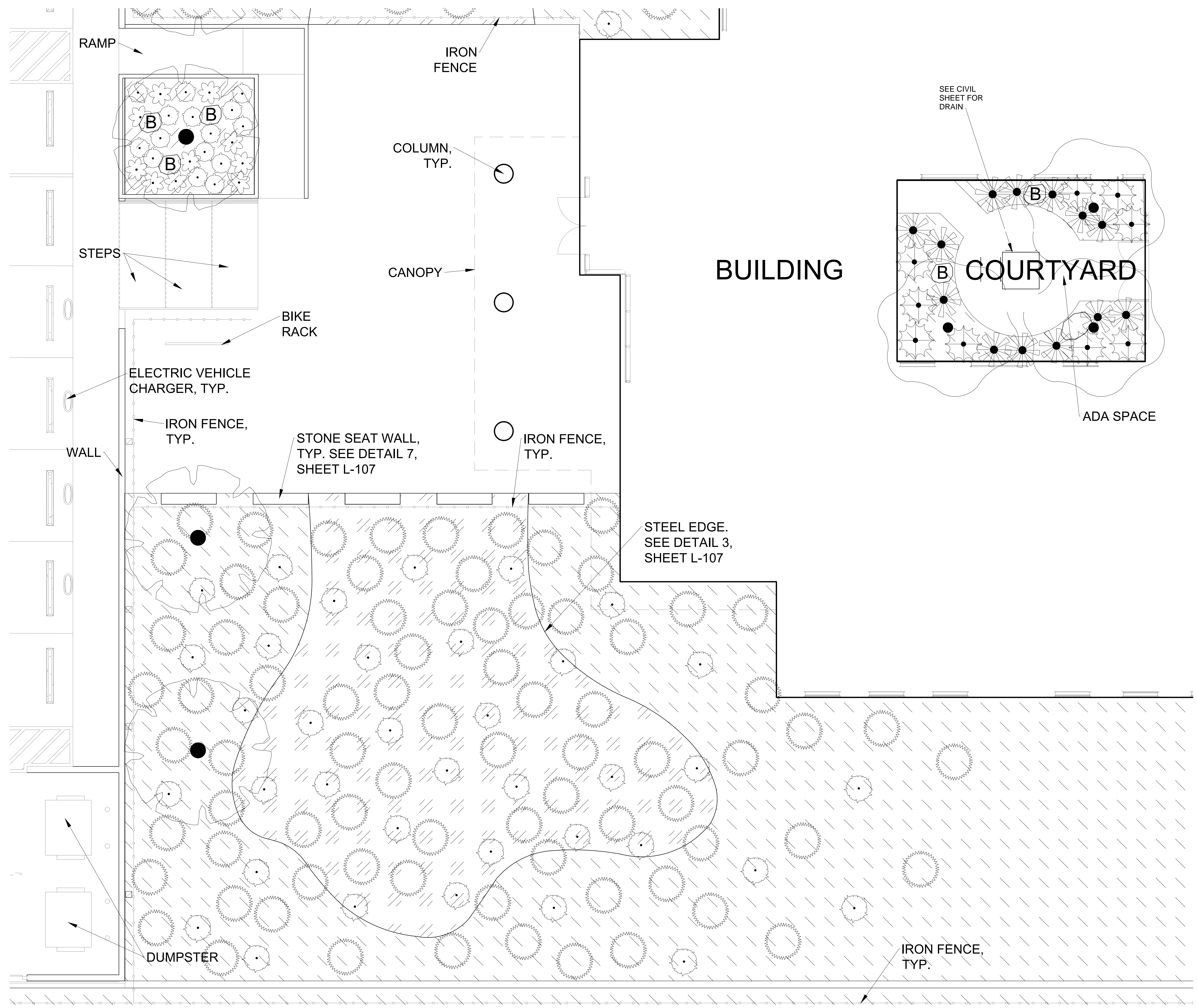
LANDSCAPE ARCHITECTURE  
 110 MONTICELLO, SUITE 1C  
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 915.887.7893  
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# PLANT LEGEND

TREES	COMMON NAME	BOTANICAL NAME	MIN. SIZE	MIN. HEIGHT	QTY
	CHASTE TREE MULTI-TRUNK	VITEX AGNUS-CASTUS	2" CAL. / 24" BOX	10'	3
	SWEET ACACIA SINGLE-TRUNK	ACACIA FARNESIANA	2" CAL. / 24" BOX	10'	41
	AFGHAN PINE	PINUS ELДАРICA	2" CAL. / 24" BOX	10'	14
	DESERT MUSEUM PALO VERDE	CERCIDIUM X 'DESERT MUSEUM'	2" CAL. / 24" BOX	10'	6
	MAVERICK THORNLESS HONEY MESQUITE MULTI-TRUNK	PROSOPIS GLANDULOSA 'MAVERICK'	2" CAL. / 24" BOX	10'	5
	ESCARPMENT LIVE OAK	QUERCUS FUSIFORMIS	2" CAL. / 24" BOX	10'	12
NOTE: MULTI-TRUNK TREES SHALL BE 2" CALIPER, WITH CALIPER EQUALING THE DIAMETER OF THE LARGEST TRUNK PLUS HALF THE DIAMETER OF THE NEXT THREE LARGEST TRUNKS					
SHRUBS	COMMON NAME	BOTANICAL NAME	SIZE	MIN. HEIGHT	QTY
	COYOTE BUSH	BACCHARIS X 'STARV'	5 GALLON	18"	26
	GOLDEN BARREL CACTUS*	ECHINOCACTUS GRUSONII	1 GALLON LOW WATER	18"	15
	RUSSIAN SAGE	PEROVSKIA ABROTANOIDES	5 GALLON	18"	121
	BEARGRASS	NOLINA MICROCARPA NOLINA TEXANA	5 GALLON	18"	106
	ENGELMANN'S PRICKLY PEAR*	OPUNTIA ENGELMANNII	5 GALLON LOW WATER	18"	25
	GIANT HESPERALOE	HESPERALOE FUNIFERA	5 GALLON	18"	9
	SOTOL*	DASYLIRION WHEELERI	5 GALLON LOW WATER	18"	293
	TEXAS MOUNTAIN LAUREL	SOPHORA SECUNDIFLORA	5 GALLON	18"	21
	OCOTILLO*	FOUQUIERIA SPLENDENS	5 GALLON LOW WATER	18"	45
	MEXICAN PETUNIA	RUPELLIA NUDIFLORA	5 GALLON	18"	26
	NEW MEXICO AGAVE*	AGAVE NEOMEXICANA	1 GALLON LOW WATER	18"	10
	WHIRLING BUTTERFLIES GAURA	GAURA LINDHEIMERI 'WHIRLING BUTTERFLIES'	5 GALLON	18"	13

\*SEE IRRIGATION LEGEND FOR WATER REQUIREMENTS FOR LOW WATER-USE PLANTS

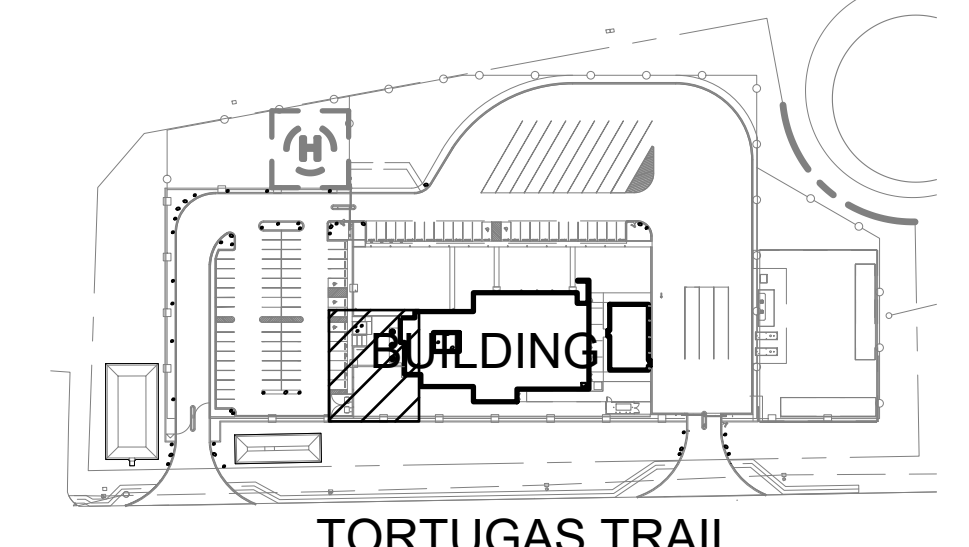
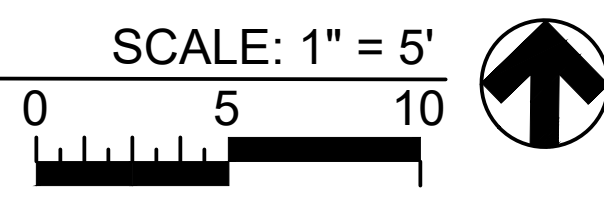


## MAIN ACCESS & COURTYARD ENLARGEMENT

### MATERIALS LEGEND

AMENITIES					
SYMBOL	DESCRIPTION	QTY	MODEL	COLOR	DETAIL
A	BOULDER A	13	3' MIN.	DESERT TAN	SEE DETAIL 4, SHEET L-107
B	BOULDER B	36	EQUAL MIX OF 1' & 2'	DESERT TAN	SEE DETAIL 4, SHEET L-107
ROCK					
SYMBOL	DESCRIPTION	QTY	COLOR	DEPTH	NOTES
	3/8" ROCK	51,626 SF	GOLDEN BROWN	3"	WITH WEED-BARRIER FABRIC. SEE DETAIL 3, SHEET L-107
	ROCK MIX 75% 2"-4" 25% 3/4"	20,626 SF	TRAIL MIX	4"	WITH WEED-BARRIER FABRIC. SEE DETAIL 3, SHEET L-107

- NOTE:
- CLC INSPECTOR WILL BE REQUIRED PRIOR TO ANY IRRIGATION INSTALLATION(S) NEXT TO ANY CLC UTILITIES TO ENSURE PROPER HORIZONTAL & VERTICAL SEPARATIONS MEET LCU STANDARDS.
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**THE DRY LAND**  
 LANDSCAPE ARCHITECTURE  
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 915.887.7893  
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OEM EMERGENCY OPERATIONS CENTER  
 TORTUGAS TRAIL, LAS CRUCES, NM

FOR:  
 DOÑA ANA COUNTY  
 845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION

PROJECT NO.: 22115L  
 FILE NAME:  
 DRAWN BY: DL  
 CHECKED BY: JM  
 SHEET TITLE:

MAIN ACCESS & COURTYARD ENLARGEMENT

SHEET NO.:  
**L-103**



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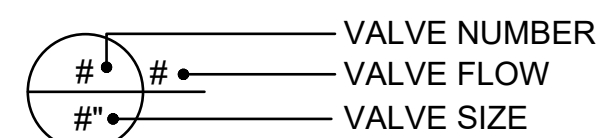




# IRRIGATION LEGEND

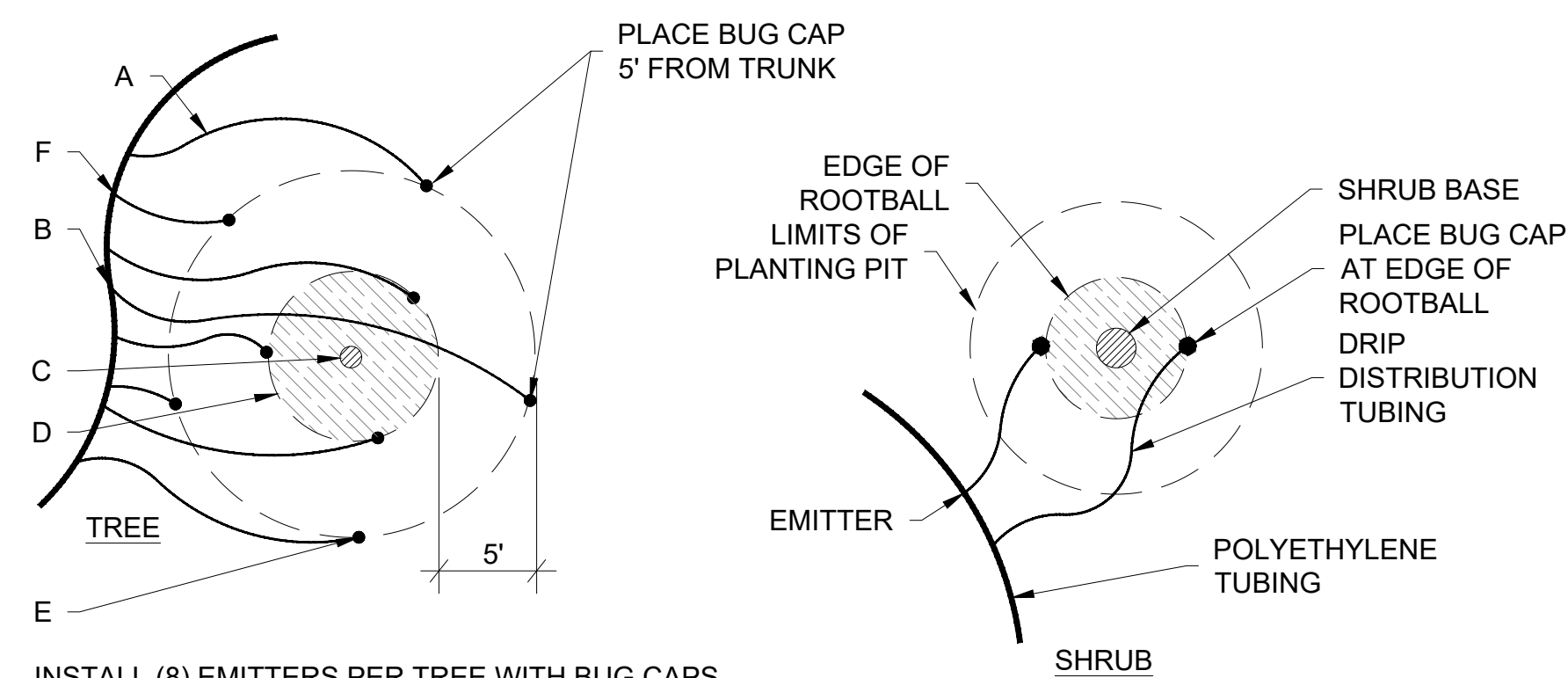
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
☐	RAINBIRD CONTROL ZONE KIT MODEL XCZ-PRB-100-COM. WITH TO 2W-1 DECODER. SEE DETAIL 3, SHEET L-108
⊙	TREE DRIP EMITTERS 3/4" POLY TUBING FEEDING RAINBIRD PC-05 EMITTERS (LIGHT BROWN 5.0 GPH), 8 PER TREE. SEE DETAIL ON THIS SHEET AND DETAIL 4, SHEET L-108
⊙	AREA TO RECEIVE DRIP EMITTERS FOR SHRUBS 3/4" POLY TUBING FEEDING RAINBIRD EMITTERS FOR SHRUBS IN THIS AREA. EACH PORTION OF POLY TUBING NOT TO FEED MORE THAN 70 SHRUBS. POLY TUBING TO NOT RUN LONGER THAN 50 FT. EXTEND PVC LATERALS AS NEEDED. Rain Bird XB-20PC (RED 2.0 GPH) for 5 Gallon Shrubs Rain Bird XB-05PC (BLUE 0.5 GPH) for 5 Gallon Low-Water Use Shrubs SEE DETAIL ON THIS SHEET AND DETAIL 4, SHEET L-108
	Emitter Notes: 0.5 GPH emitters (2 assigned to each 5 GALLON LOW WATER plant) 2.0 GPH emitters (2 assigned to each 5 GALLON plant)
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
Ⓜ	MASTER VALVE: RAIN BIRD PESB. 1" PLASTIC INDUSTRIAL MASTER VALVE. SEE DETAIL 10, SHEET L-108
▲	1.5" ZURN 500XL PRESSURE REDUCING VALVE. SET TO 80 PSI. SEE DETAIL 8, SHEET L-108
Ⓟ	RP BACKFLOW: FEBCO 825Y 3/4" RP BACKFLOW PREVENTER WITH BROWN HUBBELL ENCLOSURE WITH HEAVY DUTY LOCK. BACKFLOW TO MEET CLASS 2, ASSE #1060. SEE DETAIL 5, SHEET L-108
ⓐ	CONTROLLER: RAIN BIRD ESP-2WIRE TWO-WIRE CONTROLLER. INSTALL AT EYE-LEVEL. CONTRACTOR TO PROVIDE POWER SERVICE INSTALLATION TO CONTROLLER. WITH WIFI LINK2 MODULE INCLUDED. WITH TO 2W-1 DECODER. PROVIDE WITH RAIN BIRD LXVMSD SURGE PROTECTOR ON TWO-WIRE PATH. EVERY 500 FT OR EVERY 15 FIELD DEVICES, WHICHEVER IS LESS. CONTRACTOR SHALL COORDINATE LOCATION WITH OWNER/ARCHITECT DURING CONSTRUCTION. SEE DETAIL 6, SHEET L106
Ⓡ	RAIN SENSOR: RAIN BIRD RSD-BEX CONDUIT MOUNT, WITH THREADED ADAPTER, EXTENSION WIRE. SEE DETAIL 7, SHEET L-108
Ⓢ	PVC FLOW SENSOR: RAIN BIRD FS-150-P SEE DETAIL 11, SHEET L-108
Ⓜ	WATER METER 1" SEE CIVIL SHEETS. PRESSURE AT POC IS 106 PSI AS PROVIDED BY BHINC AND ASSUMED FLOW IS 30GPM
---	IRRIGATION LATERAL LINE: PVC CLASS 200 FOR TREES SEE PLAN FOR PIPE SIZE. SEE DETAIL 1, SHEET L-108
---	IRRIGATION LATERAL LINE: PVC CLASS 200 FOR SHRUBS SEE PLAN FOR PIPE SIZE. SEE DETAIL 1, SHEET L-108
---	IRRIGATION MAINLINE: PVC SCHEDULE 40 PIPE. 1.5" DIAMETER. SEE DETAIL 1, SHEET L-108
---	IRRIGATION MAINLINE: TYPE K COPPER SERVICE LINE FROM METER TO BACKFLOW. 1.5" SEE DETAIL 1, SHEET L-108
---	PIPE SLEEVE: PVC SCHEDULE 40 SIZED 2 SIZES LARGER THAN TOTAL DIAMETER OF PIPES WITHIN. HARDSCAPE. IF DISTURBED, CONTRACTOR IS RESPONSIBLE TO PATCH AND REPAIR. SEE DETAIL 2, SHEET L-108

### VALVE CALLOUT



### NOTE:

- CLC INSPECTOR WILL BE REQUIRED PRIOR TO ANY IRRIGATION INSTALLATION(S) NEXT TO ANY CLC UTILITIES TO ENSURE PROPER HORIZONTAL & VERTICAL SEPARATIONS MEET LCU STANDARDS.
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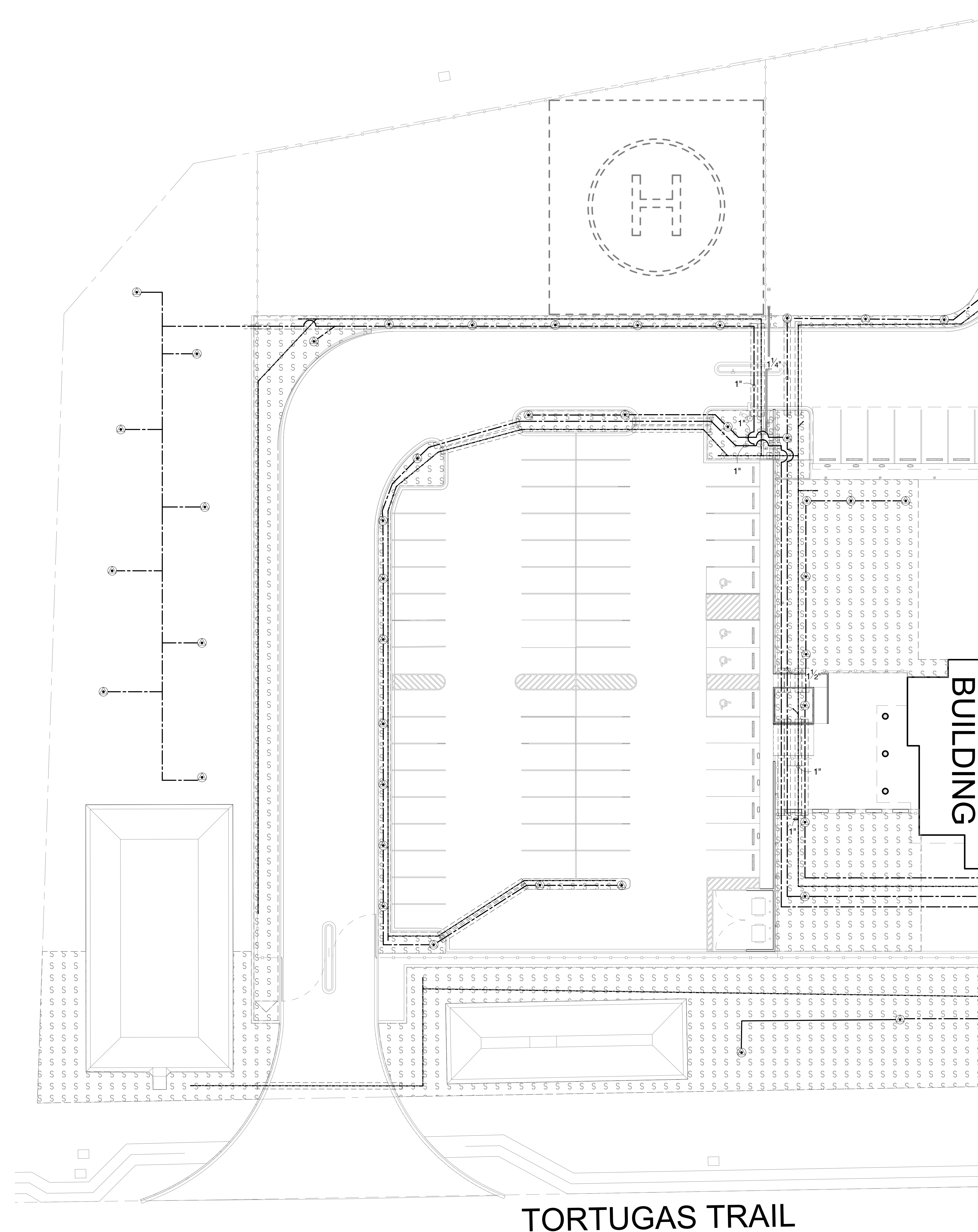
INSTALL (8) EMITTERS PER TREE WITH BUG CAPS, SPACED EVENLY AROUND ROOTBALL AS SHOWN. SEE IRRIGATION LEGEND FOR OUTLET EMITTER SIZE.

- A. EMITTER TUBING
- B. POLYETHYLENE TUBING
- C. TREE TRUNK
- D. TREE ROOTBALL
- E. BUG CAP
- F. DRIP EMITTER

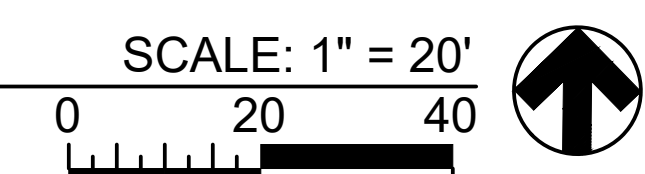
- NOT ALL PLANTS RECEIVE SAME EMITTERS
- TREES - 5 GPH
  - REGULAR 5-GAL SHRUBS - 2 GPH
  - LOW WATER-USE SHRUBS & 1-GAL SHRUBS - 0.5 GPH

## DRIP EMMITER PLACEMENT

SCALE: NTS



## IRRIGATION PLAN A



**THE DRY LAND**  
 LANDSCAPE ARCHITECTURE  
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 915.887.7893  
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OEM EMERGENCY OPERATIONS CENTER  
 TORTUGAS TRAIL, LAS CRUCES, NM

FOR:  
 DOÑA ANA COUNTY  
 845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION
▲	11.8.24	ISSUE

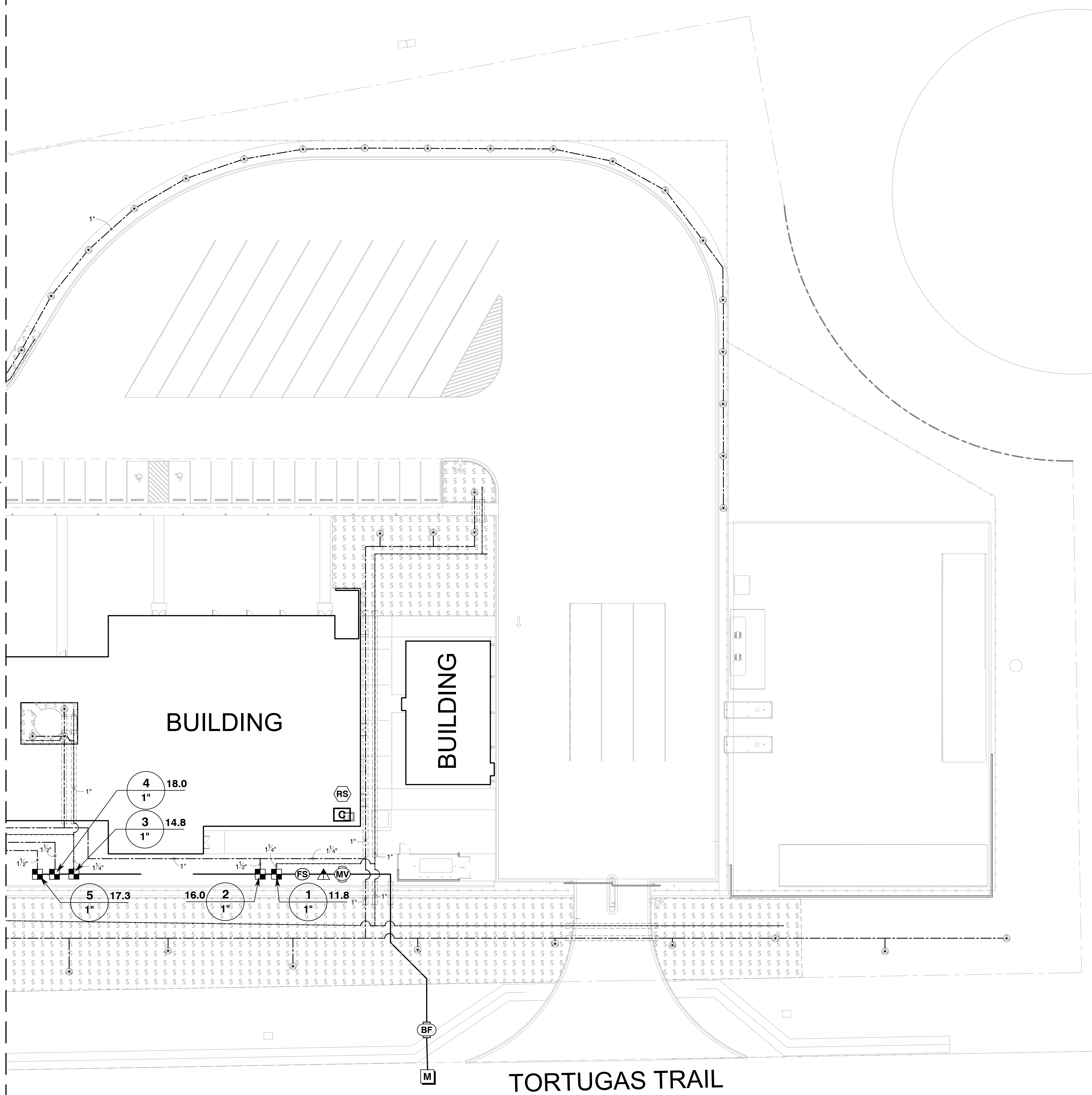
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CHECKED BY:	JM
SHEET TITLE:	

IRRIGATION PLAN A

SHEET NO:  
**L-105**

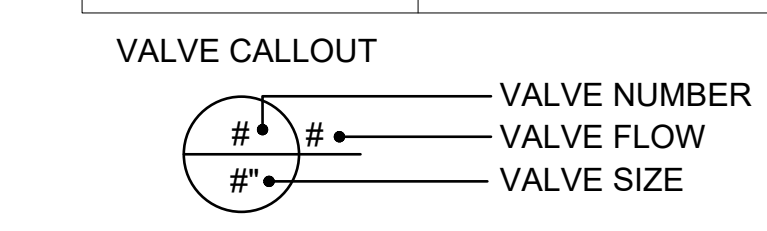
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 575.523.9667  
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MATCH LINE - SEE IRRIGATION PLAN A, SHEET L-105

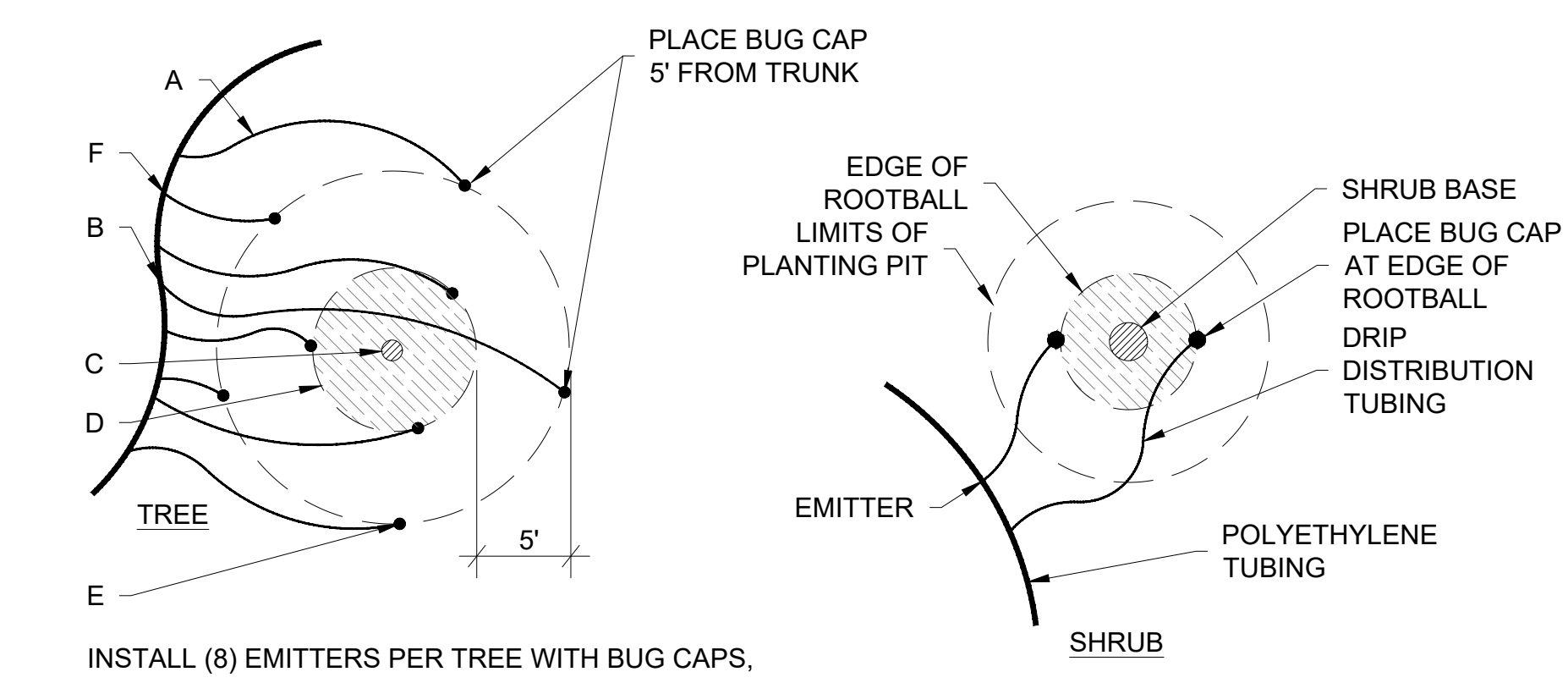


### IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
☐	RAINBIRD CONTROL ZONE KIT MODEL XCZ-PRB-100-COM. WITH TO 2W-1 DECODER. SEE DETAIL 9, SHEET L-108
⊙	TREE DRIP EMITTERS 3/4" POLY TUBING FEEDING RAINBIRD PC-05 EMITTERS (LIGHT BROWN 5.0 GPH), 8 PER TREE. SEE DETAIL ON THIS SHEET AND DETAIL 4, SHEET L-108
⊙	AREA TO RECEIVE DRIP EMITTERS FOR SHRUBS 3/4" POLY TUBING FEEDING RAINBIRD EMITTERS FOR SHRUBS IN THIS AREA. EACH PORTION OF POLY TUBING NOT TO FEED MORE THAN 70 SHRUBS. POLY TUBING TO NOT RUN LONGER THAN 50 FT. EXTEND PVC LATERALS AS NEEDED. Rain Bird XB-20PC (RED 2.0 GPH) for 5 Gallon Shrubs Rain Bird XB-05PC (BLUE 0.5 GPH) for 5 Gallon Low-Water Use Shrubs SEE DETAIL ON THIS SHEET AND DETAIL 4, SHEET L-108
Emitter Notes: 0.5 GPH emitters (2 assigned to each 5 GALLON LOW WATER plant) 2.0 GPH emitters (2 assigned to each 5 GALLON plant)	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
MV	MASTER VALVE: RAIN BIRD PESB. 1" PLASTIC INDUSTRIAL MASTER VALVE. SEE DETAIL 10, SHEET L-108
▲	1.5" ZURN 500XL PRESSURE REDUCING VALVE. SET TO 80 PSI. SEE DETAIL 8, SHEET L-108
BF	RP BACKFLOW: FEBCO 825Y 3/4" RP BACKFLOW PREVENTER WITH BROWN HUBBELL ENCLOSURE WITH HEAVY DUTY LOCK. BACKFLOW TO MEET CLASS 2, ASSE #1060. SEE DETAIL 5, SHEET L-108
C	CONTROLLER: RAIN BIRD ESP-2WIRE TWO-WIRE CONTROLLER. INSTALL AT EYE-LEVEL. CONTRACTOR TO PROVIDE POWER SERVICE INSTALLATION TO CONTROLLER. WITH WIFI LNK2 MODULE INCLUDED. WITH TO 2W-1 DECODER. PROVIDE WITH RAIN BIRD LXIVMSD SURGE PROTECTOR ON TWO-WIRE PATH, EVERY 500 FT OR EVERY 15 FIELD DEVICES, WHICHEVER IS LESS. CONTRACTOR SHALL COORDINATE LOCATION WITH OWNER/ARCHITECT DURING CONSTRUCTION. SEE DETAIL 6, SHEET L-108
RS	RAIN SENSOR: RAIN BIRD RSD-BEX CONDUIT MOUNT, WITH THREADED ADAPTER, EXTENSION WIRE. SEE DETAIL 7, SHEET L-108
FS	PVC FLOW SENSOR: RAIN BIRD FS-150-P SEE DETAIL 11, SHEET L-108
M	WATER METER 1" SEE CIVIL SHEETS. PRESSURE AT POC IS 106 PSI AS PROVIDED BY BHINC AND ASSUMED FLOW IS 30GPM
---	IRRIGATION LATERAL LINE: PVC CLASS 200 FOR TREES SEE PLAN FOR PIPE SIZE. SEE DETAIL 1, SHEET L-108
---	IRRIGATION LATERAL LINE: PVC CLASS 200 FOR SHRUBS SEE PLAN FOR PIPE SIZE. SEE DETAIL 1, SHEET L-108
---	IRRIGATION MAINLINE: PVC SCHEDULE 40 PIPE. 1.5" DIAMETER. SEE DETAIL 1, SHEET L-108
---	IRRIGATION MAINLINE: TYPE K COPPER SERVICE LINE FROM METER TO BACKFLOW. 1.5" SEE DETAIL 1, SHEET L-108
---	PIPE SLEEVE: PVC SCHEDULE 40 SIZED 2 SIZES LARGER THAN TOTAL DIAMETER OF PIPES WITHIN. HARDSCAPE. IF DISTURBED, CONTRACTOR IS RESPONSIBLE TO PATCH AND REPAIR. SEE DETAIL 2, SHEET L-108



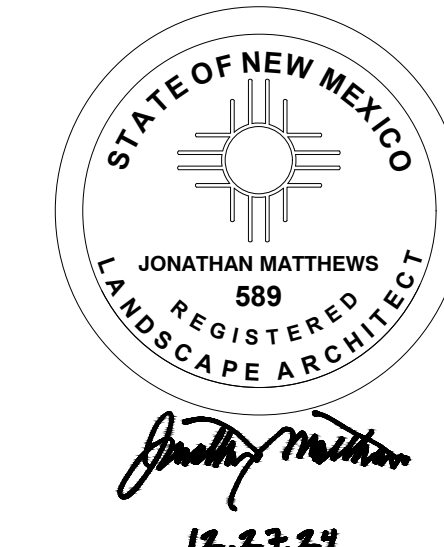
- NOTE:
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  - TREES SHALL HAVE A 10' MINIMUM CLEARANCE FROM ALL CLC UTILITIES (MAINS, SERVICES, FIRE HYDRANTS, METERS DUMPSTER ENCLOSURE).
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- INSTALL (8) EMITTERS PER TREE WITH BUG CAPS, SPACED EVENLY AROUND ROOTBALL AS SHOWN. SEE IRRIGATION LEGEND FOR OUTLET EMITTER SIZE.
- NOT ALL PLANTS RECEIVE SAME EMITTERS
- TREES - 5 GPH
  - REGULAR 5-GAL SHRUBS - 2 GPH
  - LOW WATER-USE SHRUBS & 1-GAL SHRUBS - 0.5 GPH
- A. EMITTER TUBING  
 B. POLYETHYLENE TUBING  
 C. TREE TRUNK  
 D. TREE ROOTBALL  
 E. BUG CAP  
 F. DRIP EMITTER

### DRIP EMMITER PLACEMENT

SCALE: NTS



**THE DRY LAND**  
 LANDSCAPE ARCHITECTURE  
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OEM EMERGENCY OPERATIONS CENTER  
 TORTUGAS TRAIL, LAS CRUCES, NM

FOR: DOÑA ANA COUNTY  
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MARK	DATE	DESCRIPTION
▲	11.8.24	ISSUE

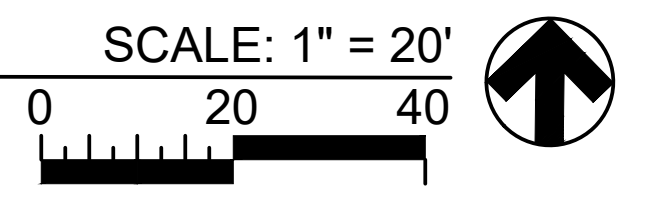
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 CHECKED BY: JM  
 SHEET TITLE:

IRRIGATION PLAN B

SHEET NO.:  
**L-106**

LANDSCAPE PLAN B

TORTUGAS TRAIL



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# LANDSCAPE GENERAL NOTES

## GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT AND FAMILIARIZE THEMSELVES WITH THE PROJECT SITE PRIOR TO SUBMITTING THEIR BID. CONTRACTOR SHALL RECEIVE THE SITE IN EXISTING CONDITION.
2. WARNING! BEFORE EXCAVATING, CONTRACTOR SHALL LOCATE AND PROTECT ALL UNDERGROUND UTILITIES LINES INCLUDING SERVICE CONNECTIONS. CONTRACTOR SHALL REPLACE ANY UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES DURING CONSTRUCTION AT NO ADDITIONAL COST TO OWNER. ALL EXCAVATION SHALL BE BACKFILLED.
3. EXISTING UTILITY LINES ARE TO BE BLUE STAKED PRIOR TO EXCAVATION, CHECK AND FIELD VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO EXCAVATION. CONSTRUCTION WORK IN CLOSE PROXIMITY TO UNDERGROUND UTILITIES SHALL BE COORDINATED WITH APPROPRIATE AGENCY. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IF ANY CONFLICTS EXIST PRIOR TO THE COMMENCEMENT OF WORK.
4. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO VERIFY LOCATION OF EXISTING UTILITIES & CONTRACTOR SHALL CALL THE RESPECTIVE "1-CALL" NUMBER AT LEAST THREE WEEKS IN ADVANCE FOR SUCH UTILITIES.
5. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH OWNER, ALL AFFECTED UTILITY COMPANIES, AND ALL OTHER ENTITIES HAVING JURISDICTION OVER THE PROJECT.
6. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXCESS PLANTING SOIL, SUBSOIL, MULCH, PLANTS, PACKAGING, AND OTHER EXCESS MATERIAL, TRASH OR DEBRIS, WHICH WAS EITHER BROUGHT TO THE SITE BY THE CONTRACTOR OR EXCAVATED OR DEMOLISHED FROM THE SITE. THIS SHALL HAPPEN DAILY.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES PRIOR TO COMMENCING WITH THE WORK. ANY DISCREPANCY NOTED SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE. FAILURE OF THE CONTRACTOR TO REPORT ANY FIELD AND PLAN DISCREPANCIES SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR WORK THAT IS PERFORMED.
8. VIBRATORY ROLLERS SHALL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT, UNLESS APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
9. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN STRICT CONFORMANCE WITH ALL CURRENT SAFETY CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO OSHA REQUIREMENTS.
10. CONTRACTOR SHALL WATER THE SITE TWICE DAILY, IN THE MORNING AND IN THE AFTERNOON, IN ORDER TO KEEP DOWN DUST. THIS SHALL INCLUDE WATERING ON WEEKENDS AND HOLIDAYS, NO EXCEPTIONS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING IMPROVEMENTS IN THE PROJECT AREA AND ITS VICINITY. ANY DAMAGE RESULTING FROM CONTRACTOR'S WORK SHALL BE RESTORED AT NO COST TO OWNER.
12. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS DURING CONSTRUCTION ACTIVITY.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ENVIRONMENTAL FINES RESULTING FROM THEIR WORK AND HOLD THE OWNER HARMLESS IN SUCH CASES.
14. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR FIELD-VERIFYING THE LOCATION (AND ELEVATION, WHERE RELEVANT) OF THE EXISTING SITE FEATURES. IF CONFLICTS ARE DISCOVERED BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND WHAT IS PRESENT IN THE FIELD, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA, REPORT THE DISCREPANCY TO THE OWNER'S REPRESENTATIVE, AND NOT PROCEED WITHOUT SPECIFIC WRITTEN DIRECTION.
15. CLC INSPECTOR WILL BE REQUIRED PRIOR TO ANY IRRIGATION INSTALLATION(S) NEXT TO ANY CLC UTILITIES TO ENSURE PROPER HORIZONTAL & VERTICAL SEPARATIONS MEET LCU STANDARDS.

## PLANTING NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREVENT PLANTS FROM FALLING OR BEING BLOWN OVER AND TO STRAIGHTEN OR REPLANT ALL PLANTS WHICH ARE DAMAGED DUE TO WIND. PLANTS BLOWN OVER BY HIGH WINDS SHALL NOT BE A CAUSE FOR ADDITIONAL EXPENSE TO THE OWNER, BUT SHALL BE THE FINANCIAL RESPONSIBILITY OF CONTRACTOR.
2. TOPSOIL MATERIAL FOR PLANTING, SHALL BE FREE FROM HARD CLOUDS, STIFF CLAY, HARD PAN, STONES LARGER THAN 1" IN DIAMETER, NOXIOUS WEEDS AND PLANTS, SOD, PARTIALLY DISINTEGRATED DEBRIS, INSECTS OR ANY OTHER UNDESIRABLE MATERIAL INCLUDING PLANTS OR SEEDS THAT WOULD BE TOXIC OR HARMFUL TO GROWTH.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF MATERIAL AND PLANT AND TREE QUANTITIES.
4. IN THE EVENT OF VARIATION BETWEEN THE PLANT QUANTITIES SHOWN ON THE PLANT LEGEND AND THE QUANTITIES SHOWN ON THE PLANS, THE PLANS SHALL CONTROL IMPROPER PLANT COUNT LISTED ON THE PLANT LEGEND MADE BY THE LANDSCAPE ARCHITECT SHALL BE NO CAUSE FOR ADDITIONAL COSTS TO THE OWNER.
5. THE CONTRACTOR SHALL MEET BOTH THE CONTAINER SIZE AND CALIPER SIZE, AS WELL AS HEIGHT AND SPREAD SPECIFICATIONS SPECIFIED.
6. EXCAVATE TWO TIMES GREATER THAN THE ROOT BALL-DIAMETER OF THE SHRUB, TWO TIMES GREATER THAN THE ROOT BALL FOR TREES. SCARIFY BOTTOM OF PLANTING PIT BEFORE PLACING PLANT. PLACEMENT OF PLANT SHALL BE PERPENDICULAR TO GROUND.
7. CONTRACTOR WILL NOT PLANT MATERIAL SHOWN ON PLANS WHEN IT IS EVIDENT THAT FIELD CONDITIONS HAVE CHANGED SINCE PLANS WERE DRAWN. ANY CHANGES ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE ANY PLANTING IS DONE IN THE AREA.
8. STEMS AND LEAVES TO BE REMOVED FROM LOWER PORTION OF TRUNKS OF TREES TO LEAVE A CLEAN APPEARANCE AND SO TREES APPEAR LESS LIKE SHRUBS AND MORE LIKE TREES.
9. PLANT SUBSTITUTIONS WILL BE PERMITTED WITH WRITTEN APPROVAL OF OWNER'S REPRESENTATIVE. REQUEST SUBSTITUTIONS IN WRITING GIVING REASONS FOR SUCH SUBSTITUTIONS. DOCUMENT THAT REASONABLE EFFORT HAS BEEN MADE TO LOCATE SPECIES ORIGINALLY SPECIFIED. NO PLANT OR TREE SUBSTITUTIONS ALLOWED UNLESS PRIOR APPROVAL FROM OWNER'S REPRESENTATIVE.
10. FOR MULTI-TRUNK TREES IN LANDSCAPE AREAS NARROWER THAN 10', ROTATE TREE SO THAT TRUNKS ARE AIMED PERPENDICULAR TO NARROW DIMENSION.
11. TREAT ALL PLANTING AREAS WITH AN APPLICATION OF SURF. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR APPLICATION.
12. REMOVE ALL WIRE, STRING, WIRE BASKETS, BURLAP, CONTAINERS, ETC., FROM THE ROOTBALL OF PLANTS BEFORE BACKFILLING THE PLANTING HOLE.
13. FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
14. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE 48 HOURS IN ADVANCE OF COMMENCEMENT OF WORK TO COORDINATE PROJECT INSPECTION SCHEDULES.
15. CONTRACTOR SHALL PROVIDE ONE YEAR WARRANTY ON PLANT MATERIAL FROM DATE OF SUBSTANTIAL COMPLETION. DEAD OR DAMAGED PLANT MATERIAL SHALL BE REPLACED AT NO COST TO THE OWNER UNLESS CAUSED BY FACTORS OUTSIDE THE CONTROL OF THE CONTRACTOR.
16. ALL AREAS TO RECEIVE LANDSCAPE ROCK WITH WEED BARRIER FABRIC SHALL RECEIVE PENDULUM OR OTHER APPROVED EQUAL PRE-EMERGENT OR COMBINATION OF PRE-EMERGENTS. APPLICATION SHALL TAKE PLACE AFTER SOIL PREPARATION AND PRIOR TO INSTALLATION OF WEED BARRIER FABRIC AND SHALL BE APPLIED BY LICENSED APPLICATOR PROVIDED BY CONTRACTOR. PRE-EMERGENT TO PROVIDE PREVENTION OF ALL INVASIVE WEEDS AND GRASSES, INCLUDING BERMUDA GRASS, BUT SHALL NOT HARM EXISTING DESIRABLE PLANTS OR NEW PLANTS. PROTECTION OF EXISTING PLANTS AND TREE ROOTS SYSTEMS SHALL BE PROVIDED PRIOR TO APPLICATION AND AS PER MANUFACTURER RECOMMENDATIONS. SUBMIT PRE-EMERGENT MSDS INFORMATION TO OWNER.
17. ALL ROCK TO BE PROVIDED CLEAN, FREE OF EXCESSIVE DIRT AND DUST. ALL ROCK TO BE RAKED SMOOTH.
18. ALL VINES TO BE PLANTED DIRECTLY ADJACENT TO WALL OR FENCE WITH VINE LEANING ONTO WALL OR FENCE, EVEN IF SHOWN FURTHER FROM WALL OR FENCE ON PLAN.
19. ALL LANDSCAPE AREAS ADJACENT TO BUILDING TO BE SLOPED 3% AWAY FROM BUILDING FOR DRAINAGE.
20. TREES SHALL HAVE A 10' MINIMUM CLEARANCE FROM ALL CLC UTILITIES (MAINS, SERVICES, FIRE HYDRANTS, METERS DUMPSTER ENCLOSURE).

## IRRIGATION NOTES

1. ASSUMED SYSTEM PRESSURE AND FLOW AT THE POINT OF CONNECTION IS LISTED ON THE IRRIGATION LEGEND. CONTRACTOR SHALL TEST AVAILABLE PRESSURE AND FLOW AND SUBMIT RESULTS TO OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. IN NO CASE SHALL CONTRACTOR COMMENCE WITH CONSTRUCTION IF MEASURED VALUES AT POINT OF CONNECTION ARE LESS THAN ASSUMED VALUES. FAILURE TO CONTACT THE OWNER'S REPRESENTATIVE SHOULD A DISCREPANCY OCCUR, WILL RESULT IN THE CONTRACTOR MAKING NECESSARY CHANGES TO THE IRRIGATION SYSTEM TO THE SATISFACTION OF THE OWNERS REPRESENTATIVE WITHOUT ADDITIONAL COST TO THE OWNER.
2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS FOR IRRIGATION WORK.
3. IRRIGATION PLAN IS DIAGRAMMATIC IN NATURE. PIPE, VALVE AND IRRIGATION SYSTEM COMPONENT LOCATIONS MAY BE SHOWN IN PAVED AREAS FOR DESIGN CLARIFICATION. ALL SYSTEM COMPONENTS WILL BE IN TURF OR LANDSCAPED AREAS WHERE POSSIBLE. ADJUST LOCATION OF ALL COMPONENTS TO COMPENSATE FOR FINAL SITE CONDITIONS AND PROVIDE OPTIMAL WATER COVERAGE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCOMPLISHING FULL COVERAGE IN ALL AREAS WITH SPECIFIED EQUIPMENT. ANY DISCREPANCIES IN THE PLAN SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION.
5. ALL FITTINGS AND NECESSARY EQUIPMENT REQUIRED TO MAKE THE IRRIGATION SYSTEM OPERATE PROPERLY AND TO COMPLY WITH LOCAL AND STATE CODES ARE INCIDENTAL TO THESE PLANS AND ARE THE CONTRACTOR'S RESPONSIBILITY.
6. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE LOCAL CODES AND REQUIREMENTS.
7. CONTRACTOR WILL BE HELD LIABLE FOR GAINING ACCESS UNDER ALL HARD SURFACES.
8. SLEEVES SHOWN ON THE PLANS SHOULD BE VERIFIED FOR ACCESSIBILITY AND FEASIBILITY BEFORE BID IS MADE.
9. THE CONTRACTOR SHALL LOCATE AND VERIFY EACH WATER TAP TO WHICH THE IRRIGATION SYSTEM WILL CONNECT. ALL EQUIPMENT AND INSTALLATION METHODS SHALL COMPLY WITH THE STANDARDS OF THE AUTHORITY HAVING JURISDICTION.
10. CONTRACTOR IS RESPONSIBLE FOR ALL CONNECTIONS AND VALVES REQUIRED FOR THE FULL IMPLEMENTATION OF THE SYSTEM.
11. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO INITIATING WORK.
12. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE OR INTERRUPTION IN SERVICE CAUSED BY THEIR EXCAVATIONS AND/OR WORK.
13. CONTROLLER WILL HAVE AN INDEPENDENT COMMON WIRE LOOPED TO THE VALVES CONNECTED TO IT.
14. ALL REMOTE CONTROL VALVE WIRES NEED TO BE LABELED AT VALVE W/ WATERPROOF LABELS AND AT CONTROLLER WITH CORRESPONDING LABEL. LETTER AND/OR NUMBER TAGS IN SEQUENTIAL ORDER SHALL BE PROVIDED BY CONTRACTOR. CONTRACTOR SHALL PROVIDE WATERPROOF ZONE MAP IN THE CONTROLLER. ENCLOSURE WITH EACH ZONE CLEARLY IDENTIFIED.
15. SPLICING OF REMOTE CONTROL VALVE WIRES IS NOT ALLOWED BETWEEN CONTROLLER & VALVE BOX. WIRES MUST BE CONTINUOUS FROM CONTROLLER TO REMOTE CONTROL VALVE WITHOUT SPLICING.
16. VALVE BOXES AND CANS SHALL NOT BE LOCATED WITHIN 6" OF BACK OF CURB OR ANY HARDSCAPE EVEN IF SYMBOL ON PLAN IS SHOWN CLOSER.
17. TRENCHES FOR MAIN LINE SHALL BE OF SUFFICIENT DEPTH TO ALLOW MAINLINE TO BE A MINIMUM DEPTH OF 18" BELOW FINISHED GRADE. TRENCHES FOR LATERAL LINES SHALL BE OF SUFFICIENT DEPTH TO ALLOW FOR LATERALS TO BE A MINIMUM OF 12" BELOW FINISHED GRADE.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO PLANT MATERIAL DUE TO SYSTEM FAILURE OR INFERIOR WORKMANSHIP DURING THE INSTALLATION OF PLANTS AND MAINTENANCE PERIOD.
19. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL ELECTRICAL CONNECTION FOR CONTROLLERS. THIS SHALL INCLUDE ALL NECESSARY FUSE BOXES OR OTHER ELECTRICAL REQUIREMENTS.
20. IRRIGATION CONTRACTOR SHALL COORDINATE OPERATIONAL REQUIREMENTS OF THE IRRIGATION SYSTEM WITH THE IRRIGATION CONTROLLER(S) AND INSTRUCT THE OWNER ON IT'S PROPER USE.
21. CONTRACTOR TO PROVIDE ONE YEAR WARRANTY OF MATERIALS AND WORKMANSHIP OF IRRIGATION SYSTEM FROM DATE OF SUBSTANTIAL COMPLETION. DAMAGED MATERIALS AND DEFECTIVE WORK SHALL BE REPLACED AT NO COST TO THE OWNER, UNLESS CAUSED BY FACTORS OUTSIDE THE CONTROL OF THE CONTRACTOR.
22. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING & REPLACING ANY CLC UTILITIES IF DAMAGED DURING CONSTRUCTION.

OEM EMERGENCY OPERATIONS CENTER  
TORTUGAS TRAIL, LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

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LANDSCAPE ARCHITECTURE  
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GENERAL NOTES  
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STRUCTURAL NOTES QUALITY ASSURANCE DETAIL LEGEND MISCELLANEOUS SYMBOLS

GENERAL
1. ALL STEELS ARE TYPICAL AND SHALL APPLY TO EXCEPT WHERE NOTED OTHERWISE.
2. THE CONTRACTOR SHALL SUBMIT THE SIZE AND LOCATION OF ALL BOLTS AND BOLTED JOINTS WITH SLABS AND WALLS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND CIVIL DRAWINGS. ALL PLUMBING AND MECHANICAL PENETRATIONS THROUGH SLABS SHALL BE PROTECTED AS NOTED. PENETRATIONS THROUGH SLABS SHALL BE PROTECTED AS NOTED. PLUMBING AND MECHANICAL SHALL NOT BE INSTALLED BELOW FINISHING WORK FROM WATER APPLIED FROM STRENGTH CONSIDERATIONS.

CONCRETE
1. ALL CONCRETE SHALL BE PROPORTIONED, CONTRACTED AND CONTROL TO CONFORM TO SECTION 05 20-1-16. CONCRETE DESIGN SHALL CONFORM TO ACI 318-14.
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR II. ALL PORTLAND CEMENT SHALL BE TYPE I.

LIGHT GAGE FRAMING (18ga AND HEAVIER)
1. LIGHT GAGE FRAMING MEMBERS SHALL COMPLY WITH THE STEEL DEPARTMENT ASSOCIATION DESIGNATION CALL OUTS.
2. ALL LIGHT GAGE FRAMING SHALL BE PROTECTED AS NOTED.

STRUCTURAL INSPECTION AND TESTING
1. STRUCTURAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE SPEC.
2. IF THE GENERAL CONTRACTOR IS RESPONSIBLE TO SCHEDULE AND COORDINATE THE PERFORMANCE OF INSPECTIONS AND TESTING IN ACCORDANCE WITH THE SPECIFICATIONS, REVISION CODE AND THE SPECIAL INSPECTION SCHEDULES.

Table with 4 columns: VERIFICATION AND INSPECTION TASK, FREQUENCY OF INSPECTION, PERIODIC, REFERENCE STANDARD. Includes tasks like 1. VERIFICATION OF REINFORCING STEEL, 2. INSPECTION OF WELDING, 3. INSPECTION OF BOLTING.

DESIGN CRITERIA
1. THE STRUCTURAL DESIGN WAS DEVELOPED IN ACCORDANCE WITH THE FOLLOWING CODES:
ACI 318-14
ACI 308-14
ACI 309-14
ACI 305-14
ACI 308.2-14
ACI 308.3-14
ACI 308.4-14
ACI 308.5-14
ACI 308.6-14
ACI 308.7-14
ACI 308.8-14
ACI 308.9-14
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ACI 308.99-14
ACI 308.100-14

Table with 4 columns: TYPE, DESCRIPTION, AREA, YIELD STRENGTH, NOTES. Lists various reinforcement types like #4, #5, #6, #7, #8, #9, #10, #11, #12, #13, #14, #15, #16, #17, #18, #19, #20, #21, #22, #23, #24, #25, #26, #27, #28, #29, #30, #31, #32, #33, #34, #35, #36, #37, #38, #39, #40, #41, #42, #43, #44, #45, #46, #47, #48, #49, #50, #51, #52, #53, #54, #55, #56, #57, #58, #59, #60, #61, #62, #63, #64, #65, #66, #67, #68, #69, #70, #71, #72, #73, #74, #75, #76, #77, #78, #79, #80, #81, #82, #83, #84, #85, #86, #87, #88, #89, #90, #91, #92, #93, #94, #95, #96, #97, #98, #99, #100.

REQUIRED SPECIAL INSPECTION AND TESTS OF SOILS
1. VERIFY MATERIALS BEFORE SOILS FORMATION ARE ASSURE TO ACHIEVE THE DESIGN REQUIREMENTS.
2. VERIFY EXISTING CONDITIONS TO PROTECT EXISTING AND TO BE MAINTAINED.
3. VERIFY FOUNDATION CONDITIONS TO PROTECT EXISTING AND TO BE MAINTAINED.
4. VERIFY USE OF PROTECTIVE MEASURES TO PROTECT EXISTING AND TO BE MAINTAINED.

Table with 4 columns: VERIFICATION AND INSPECTION TASK, FREQUENCY OF INSPECTION, PERIODIC, REFERENCE STANDARD. Includes tasks like 1. INSPECTION OF REINFORCING STEEL, 2. INSPECTION OF WELDING, 3. INSPECTION OF BOLTING.

Table with 4 columns: VERIFICATION AND INSPECTION TASKS FOR WELDING OF STRUCTURAL STEEL, FREQUENCY OF INSPECTION, PERIODIC, REFERENCE STANDARD. Includes tasks like 1. INSPECTION OF WELDING, 2. INSPECTION OF BOLTING.

SHOP DRAWINGS
1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.
3. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.

FOUNDATION
1. THE CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH THE SOIL, WATER AND SITE CONDITIONS DESCRIBED IN THE SOILS REPORT FROM THE GEOTECHNICAL ENGINEER.
2. THE CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH THE SOIL, WATER AND SITE CONDITIONS DESCRIBED IN THE SOILS REPORT FROM THE GEOTECHNICAL ENGINEER.

STEEL JOISTS
1. ALL STEEL JOISTS SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF STEEL JOISTS WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.
2. ALL STEEL JOISTS SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF STEEL JOISTS WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.

VERIFICATION AND INSPECTION TASKS FOR BOLTING STRUCTURAL STEEL
1. INSPECTION TASKS FOR BOLTING:
1.1. MANUFACTURE CERTIFICATIONS AVAILABLE FOR PRECAST CONCRETE ELEMENTS.
1.2. PRECAST CONCRETE ELEMENTS SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER.
1.3. PRECAST CONCRETE ELEMENTS SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER.

Table with 4 columns: TYPE, CONTINUOUS, PERIODIC, REFERENCE STANDARD. Lists various inspection tasks for bolting.

REBAR STANDARD HOOKS
1. REBAR STANDARD HOOKS SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF REBAR WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.
2. REBAR STANDARD HOOKS SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF REBAR WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.

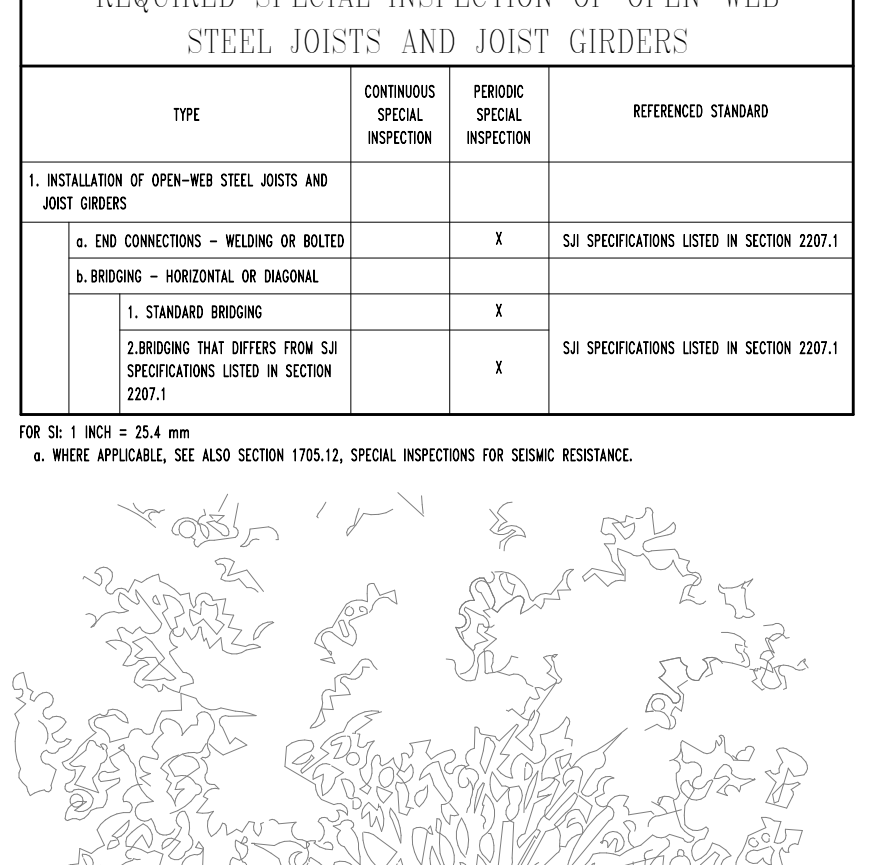
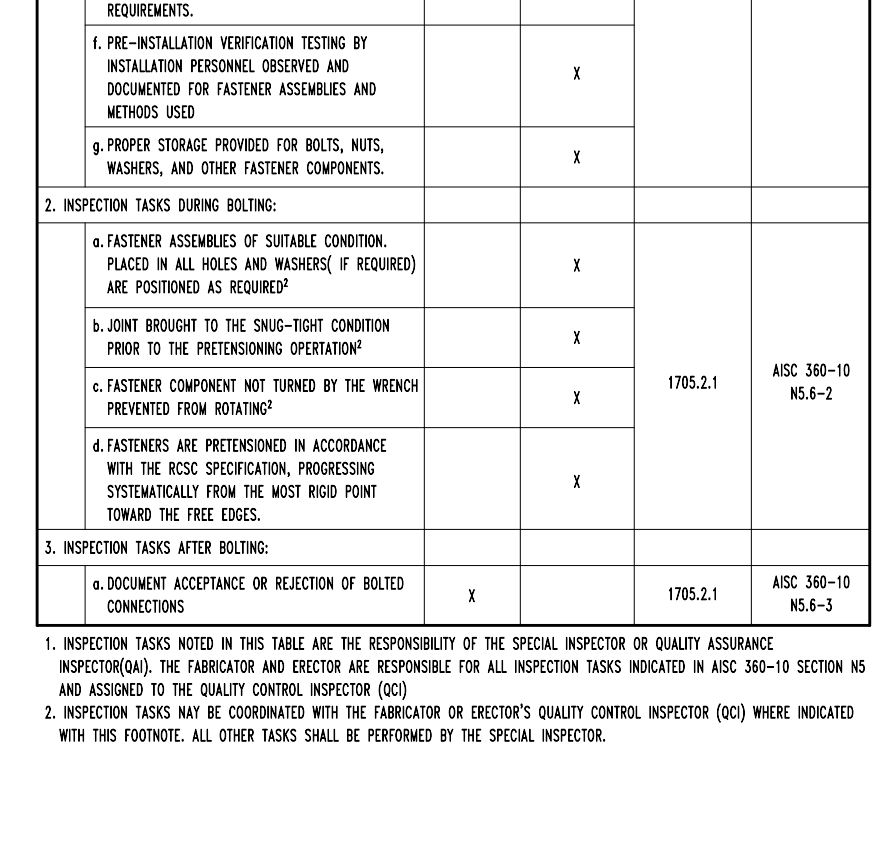
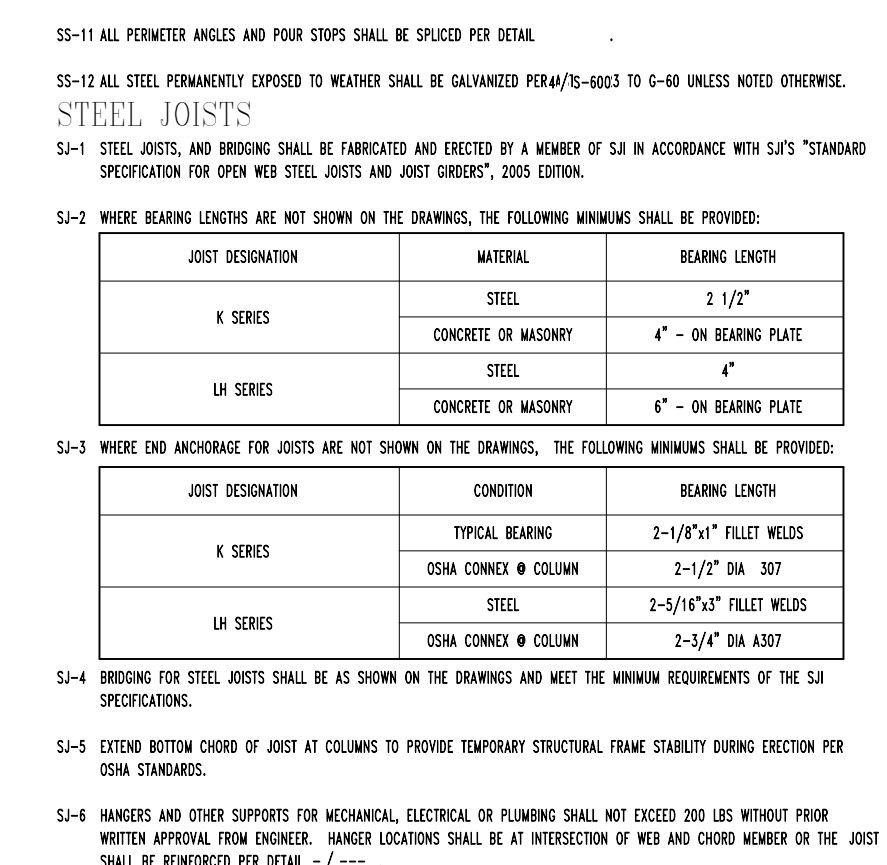
Table with 4 columns: REBAR SIZE, HOOK TYPE, H (IN), J (IN), L (IN), N (IN). Lists various rebar hook types and dimensions.

CONCRETE REINFORCING SPLICE SCHEDULE
1. CONCRETE REINFORCING SPLICE SCHEDULE SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF REBAR WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.
2. CONCRETE REINFORCING SPLICE SCHEDULE SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF REBAR WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.

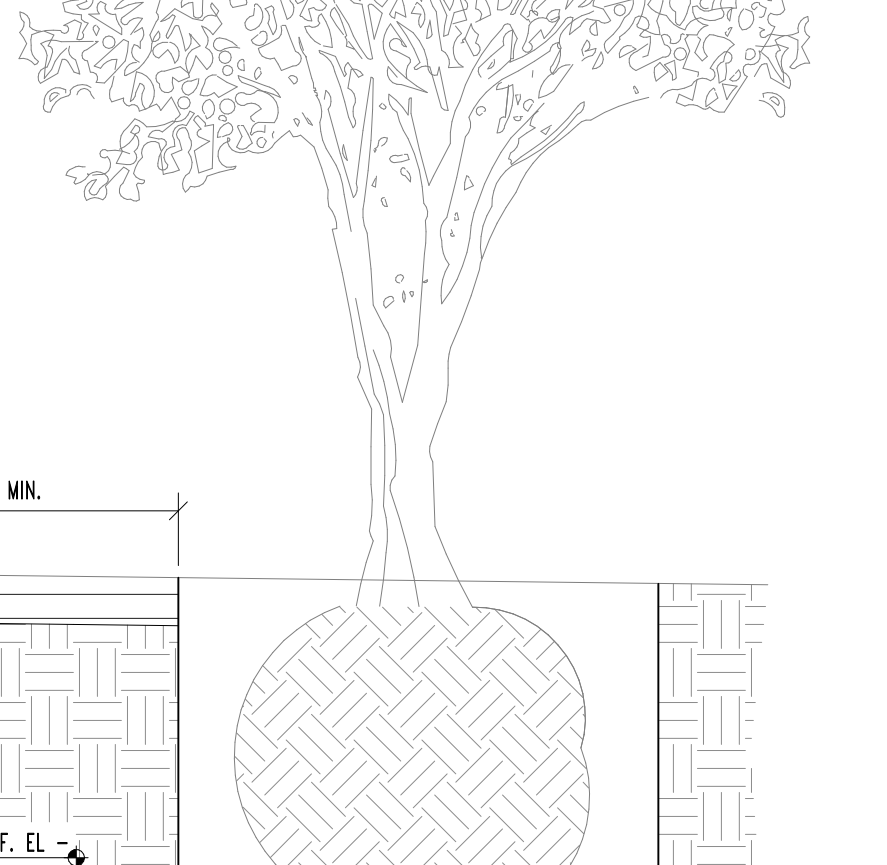
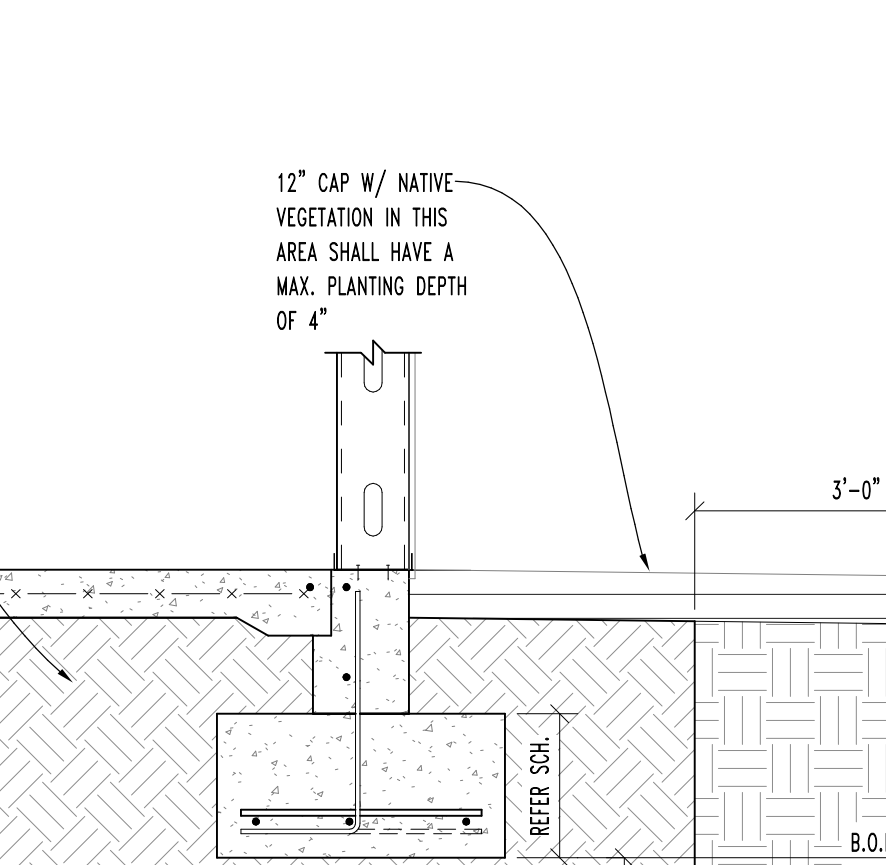
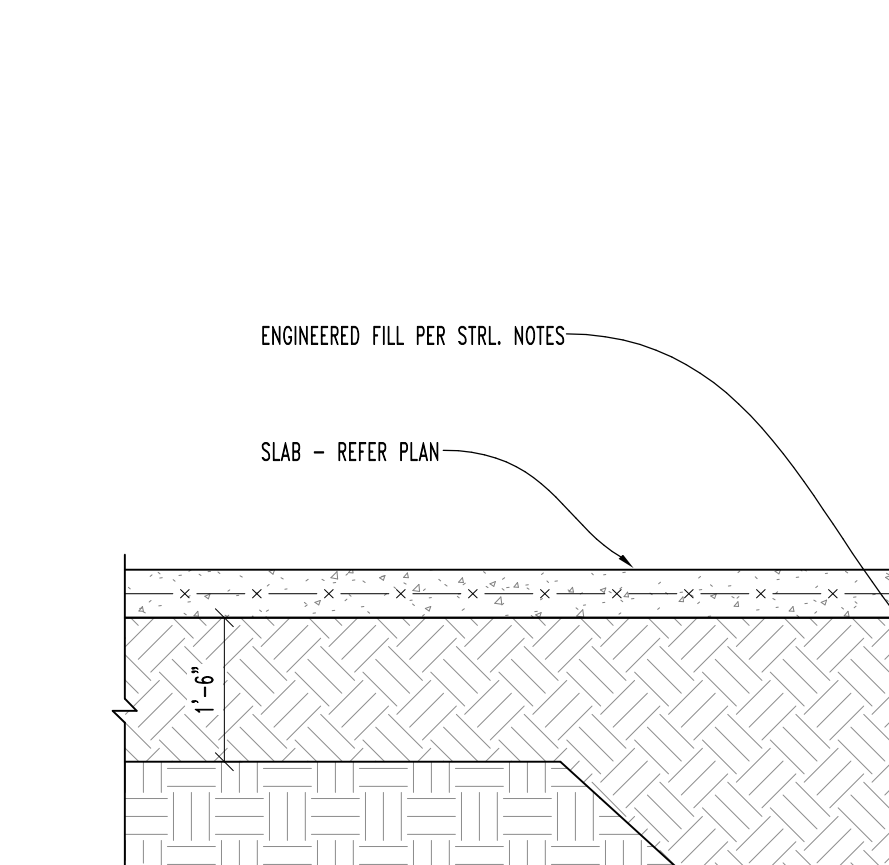
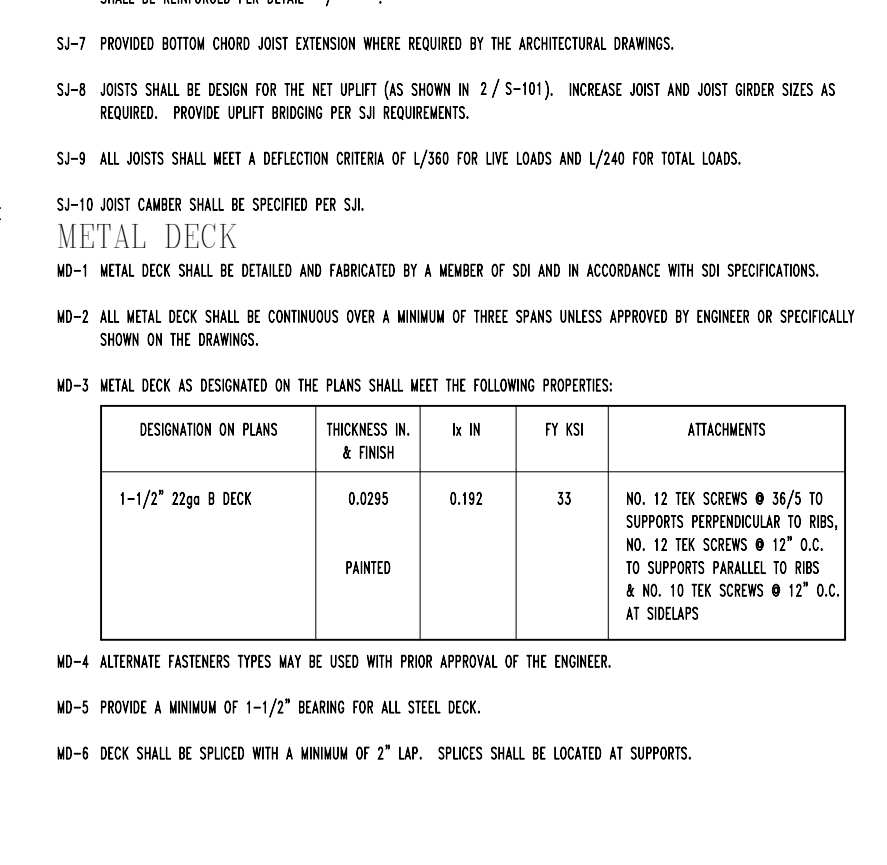
Table with 4 columns: F'c (PSI), SPLICE TYPE, #3, #4, #5, #6, #7, #8, #9, #10, BAR SIZE. Lists various concrete reinforcing splice types and dimensions.

DETAIL LIGHT GAGE MEMBERS
1. DETAIL LIGHT GAGE MEMBERS SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF STEEL WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.
2. DETAIL LIGHT GAGE MEMBERS SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF STEEL WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.

STEEL BEAM CALLOUT KEY
1. STEEL BEAM CALLOUT KEY SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF STEEL WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.
2. STEEL BEAM CALLOUT KEY SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF STEEL WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.

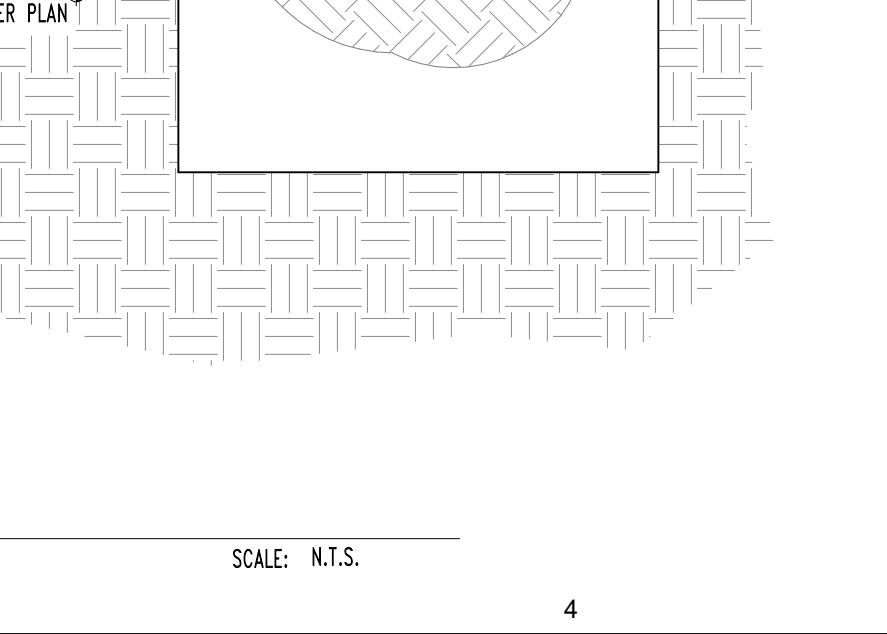
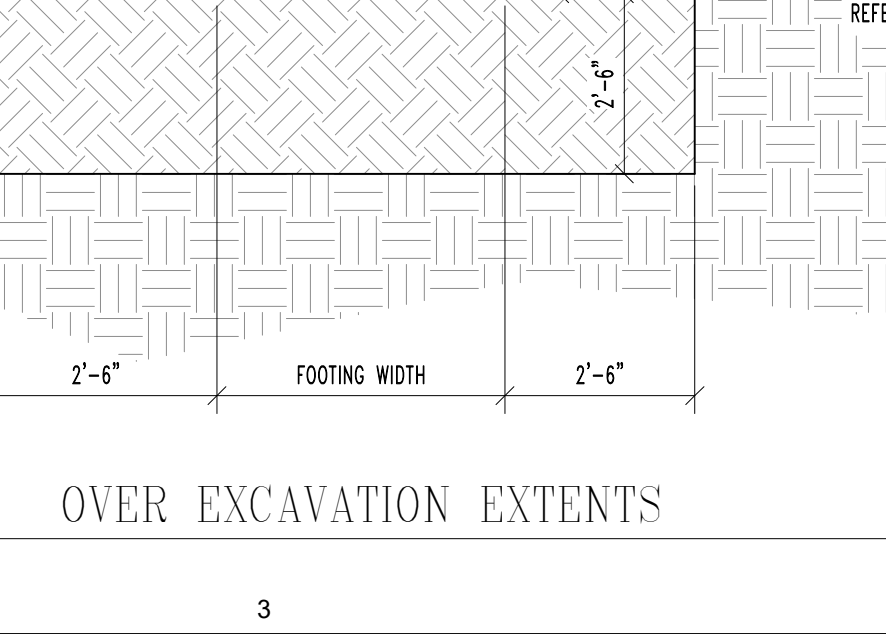
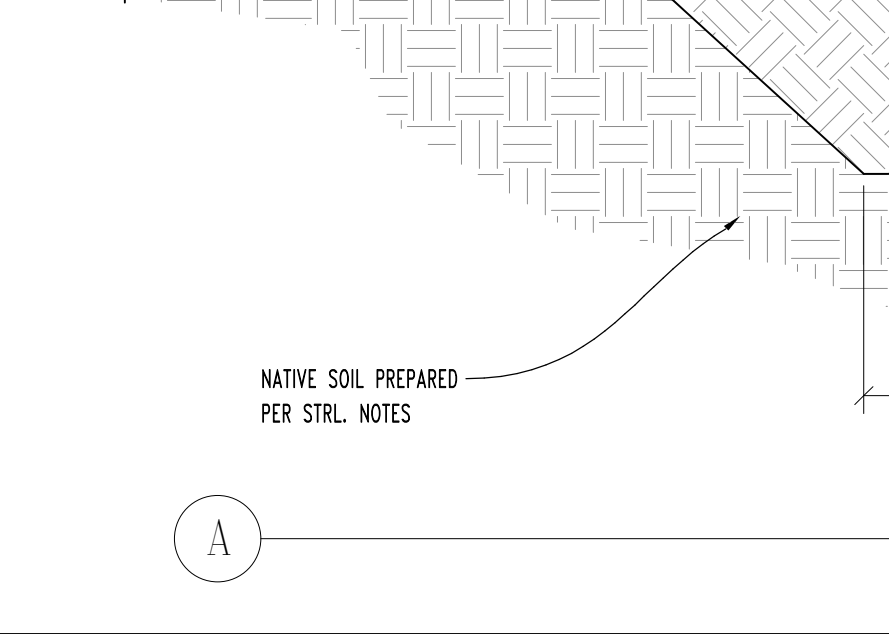


OVER EXCAVATION EXTENTS
1. OVER EXCAVATION EXTENTS SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF STEEL WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.
2. OVER EXCAVATION EXTENTS SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF STEEL WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.



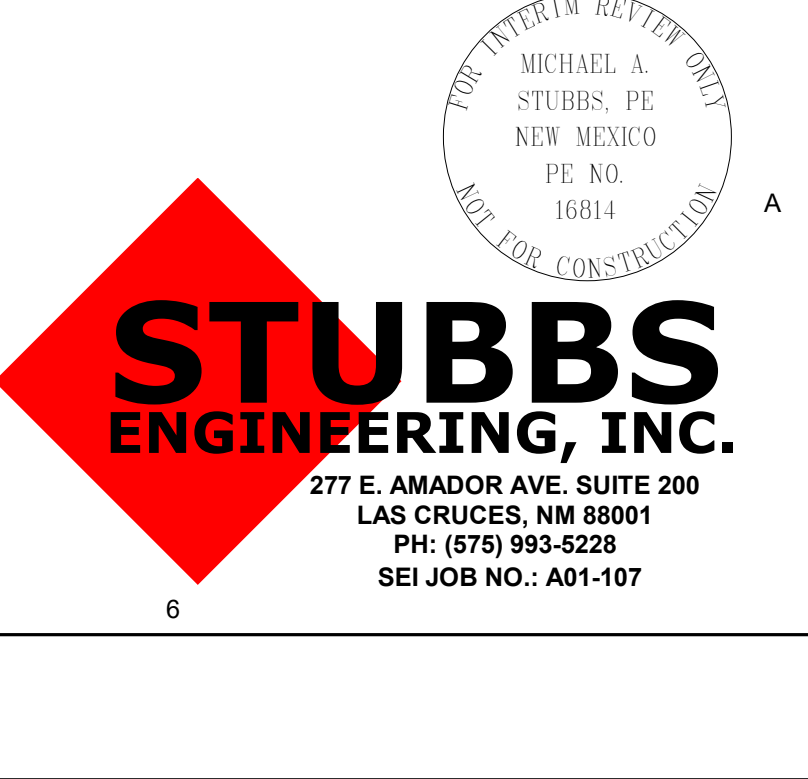
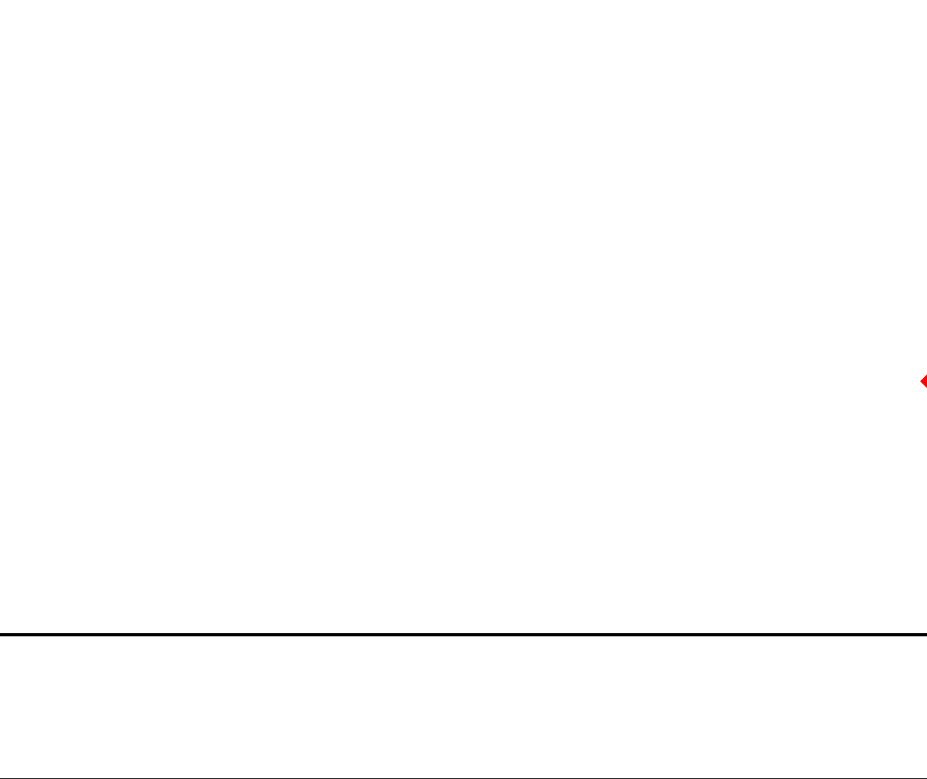
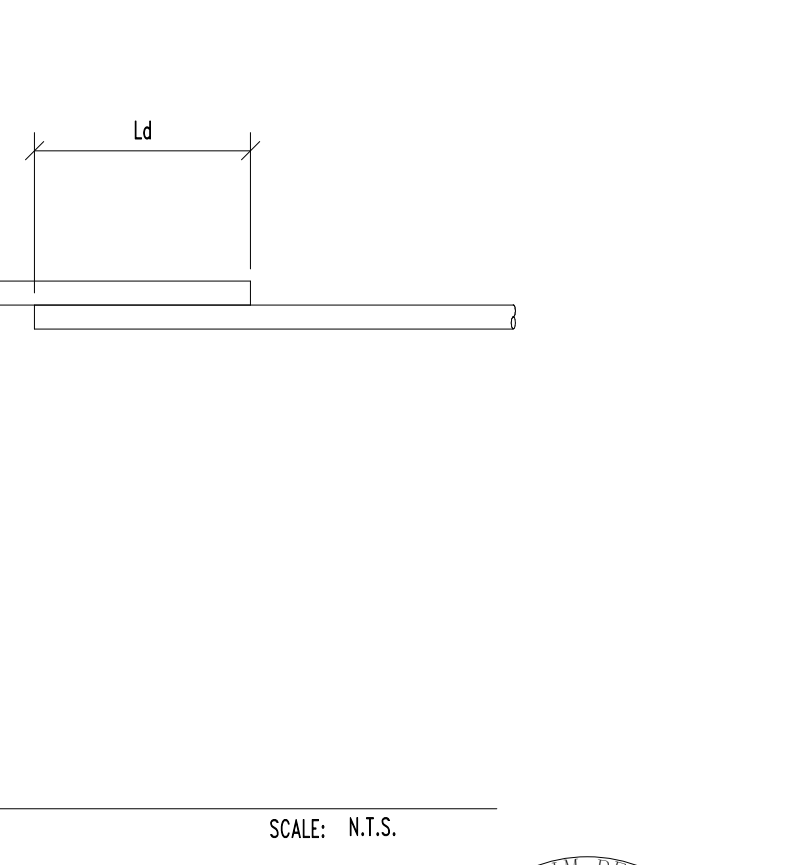
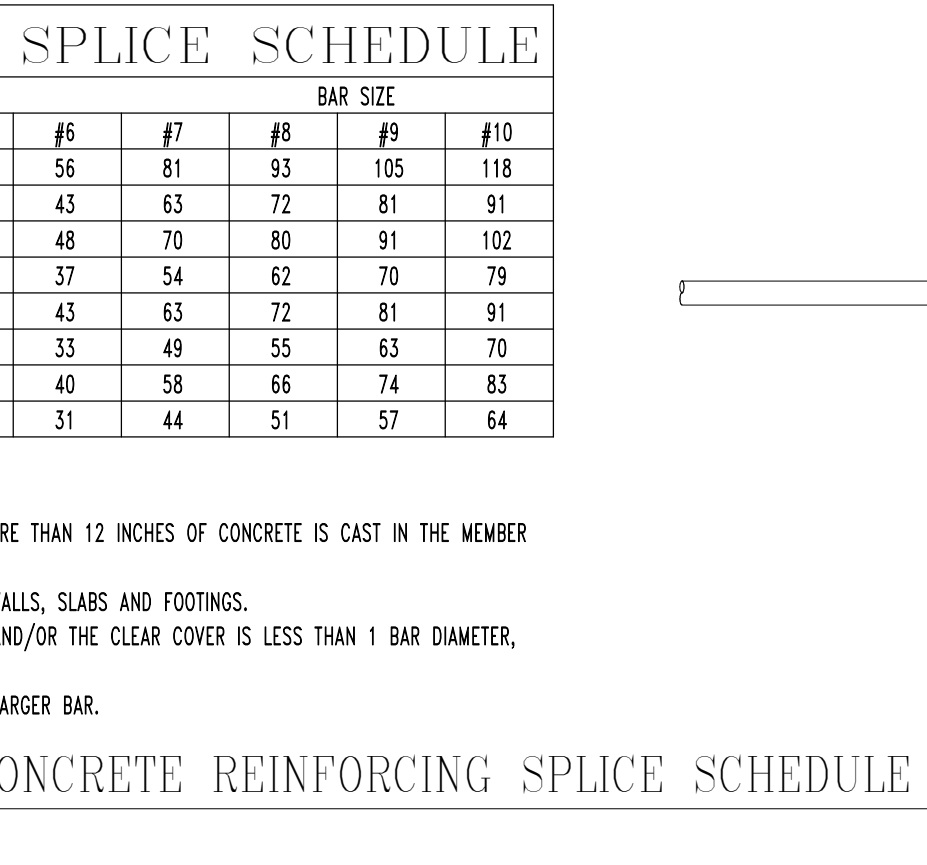
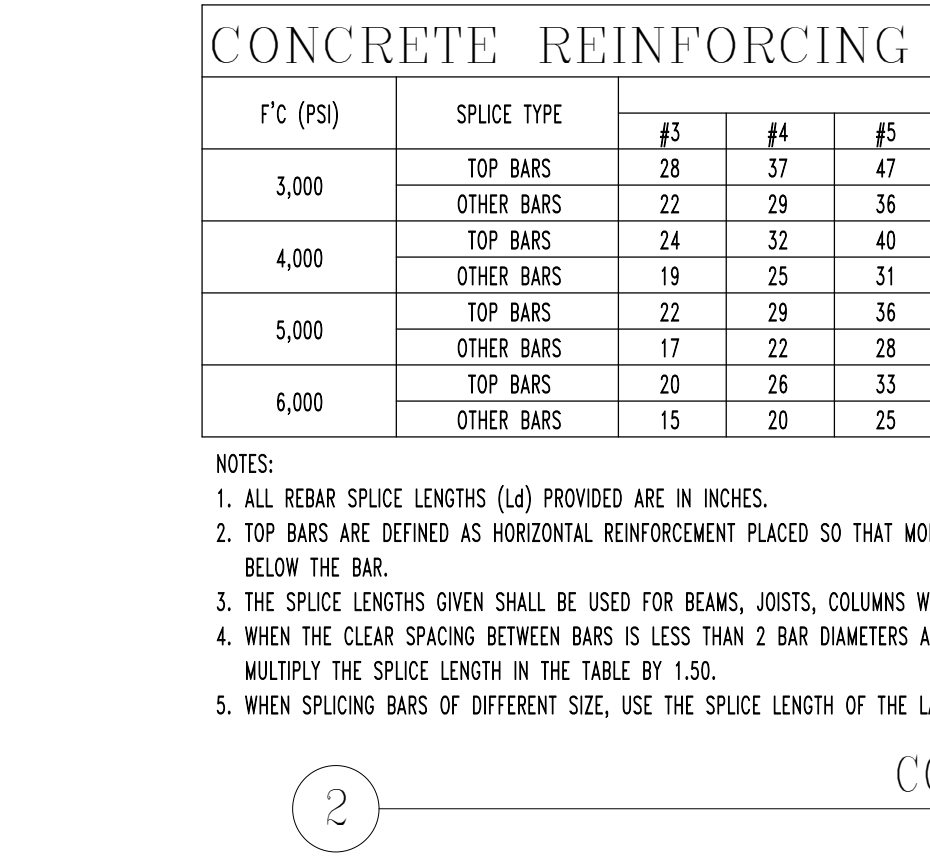
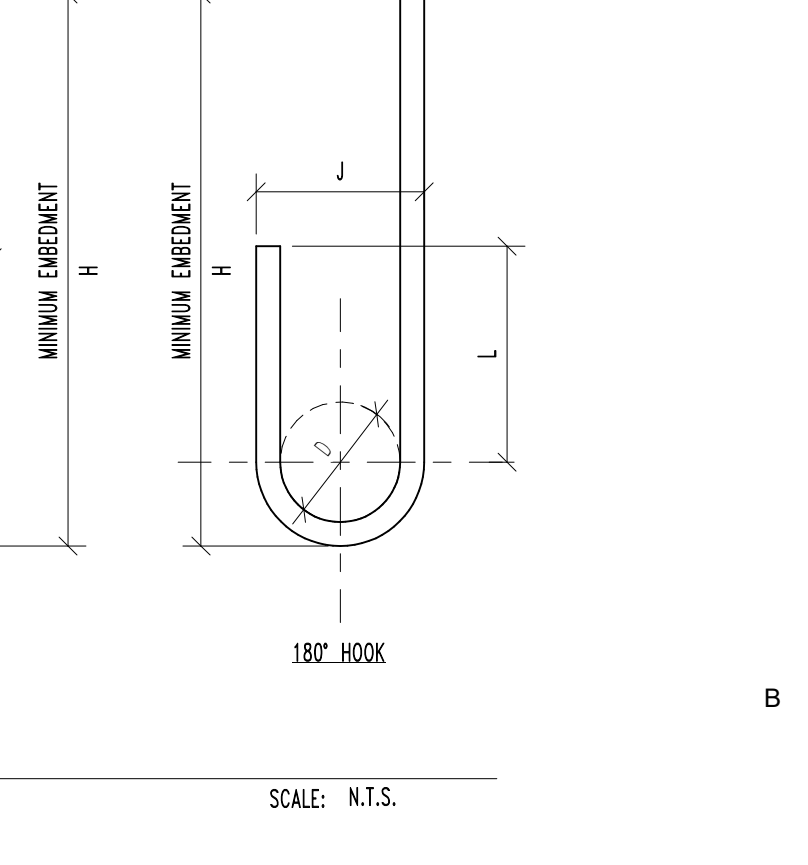
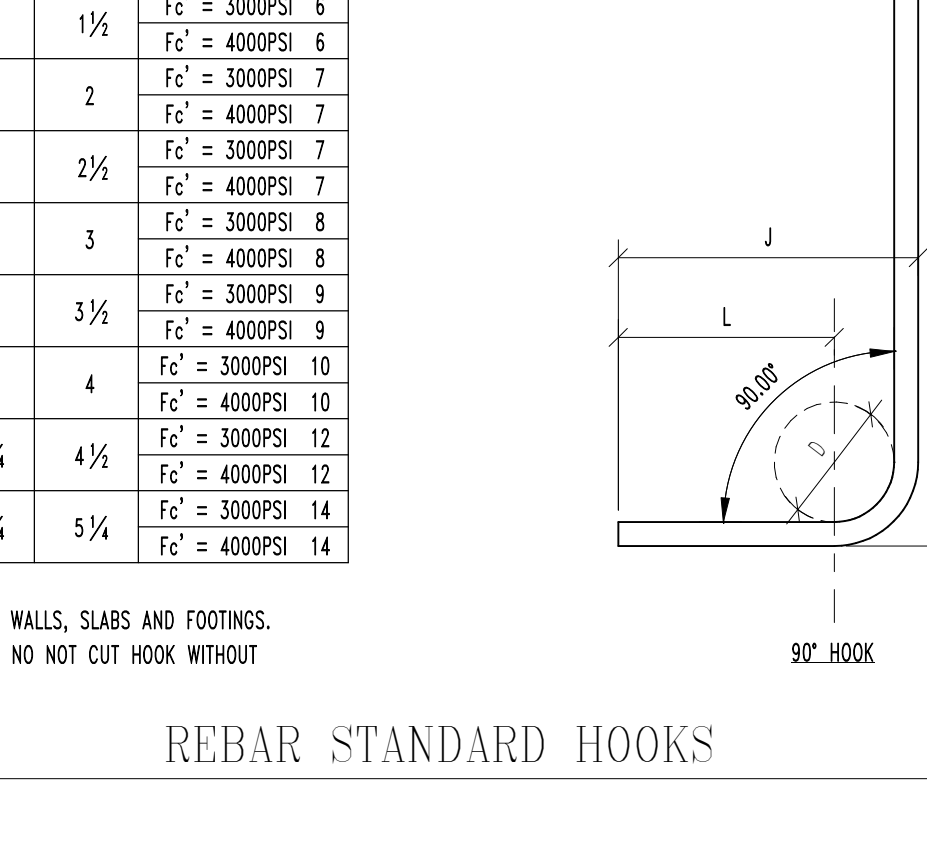
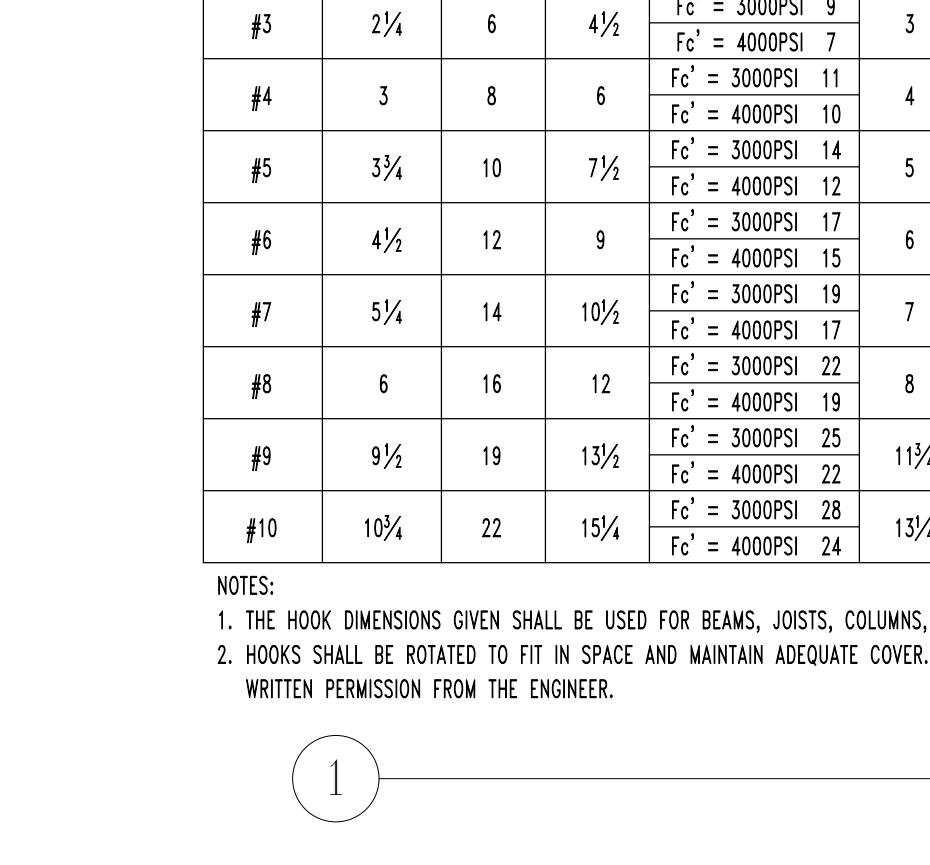
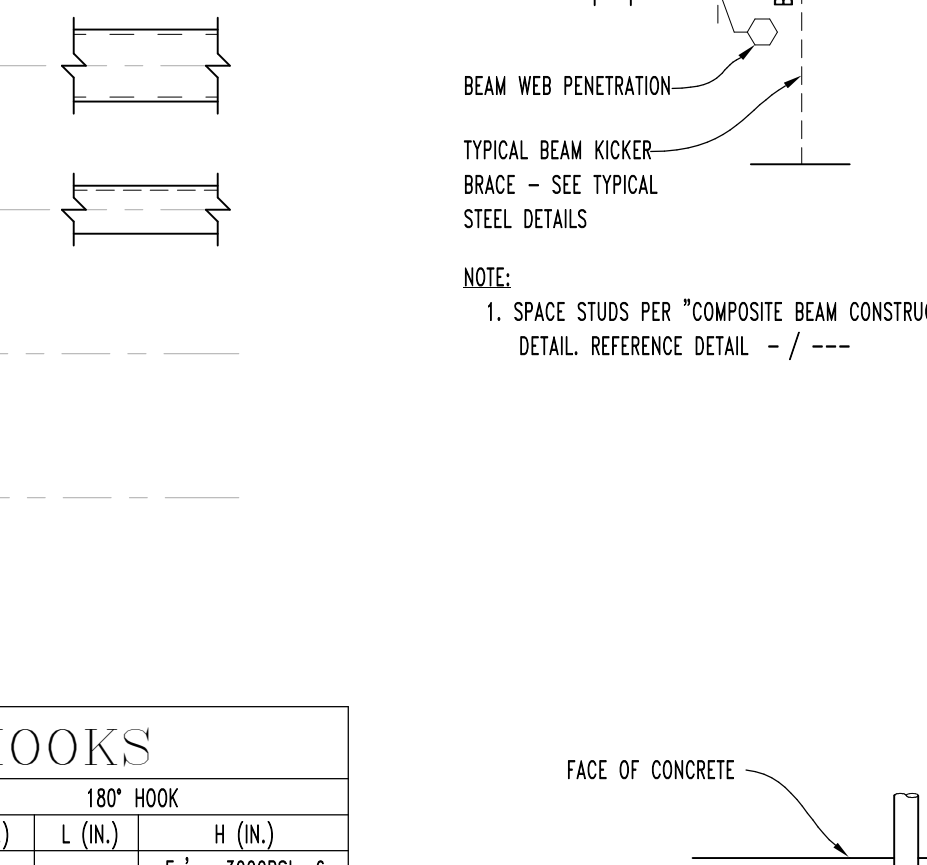
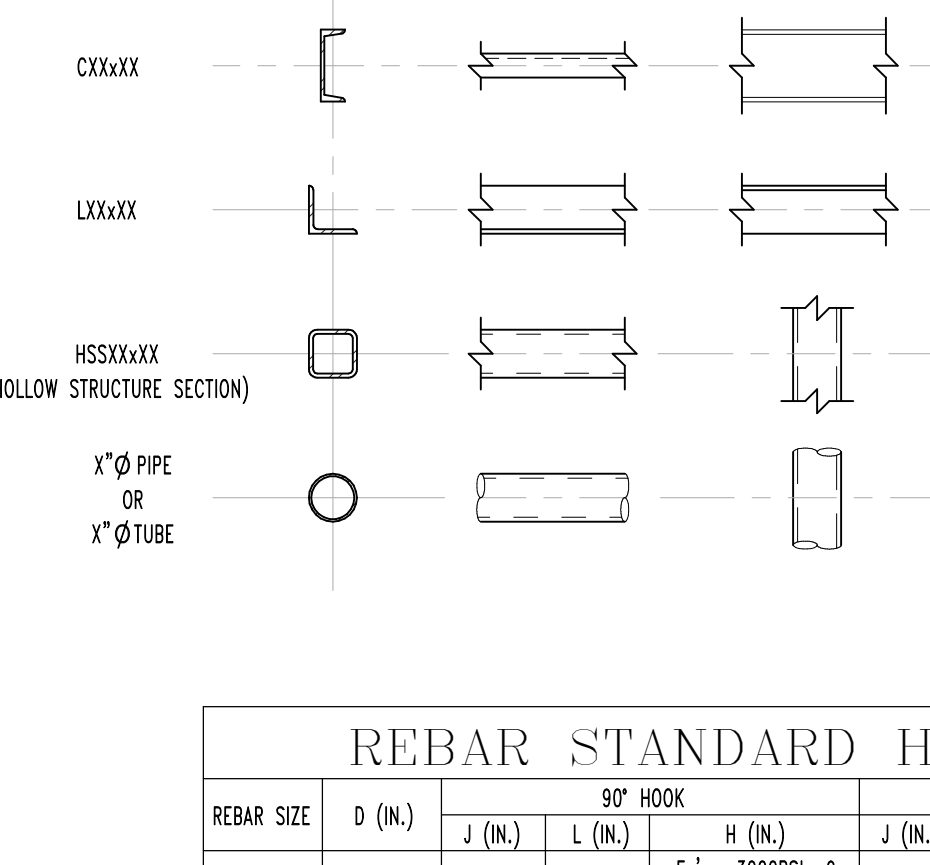
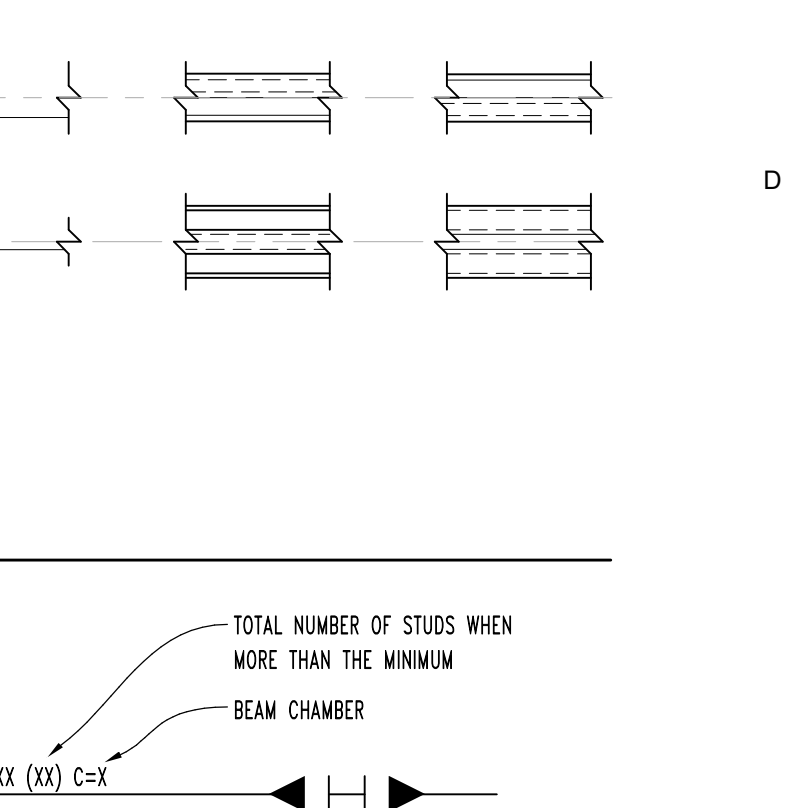
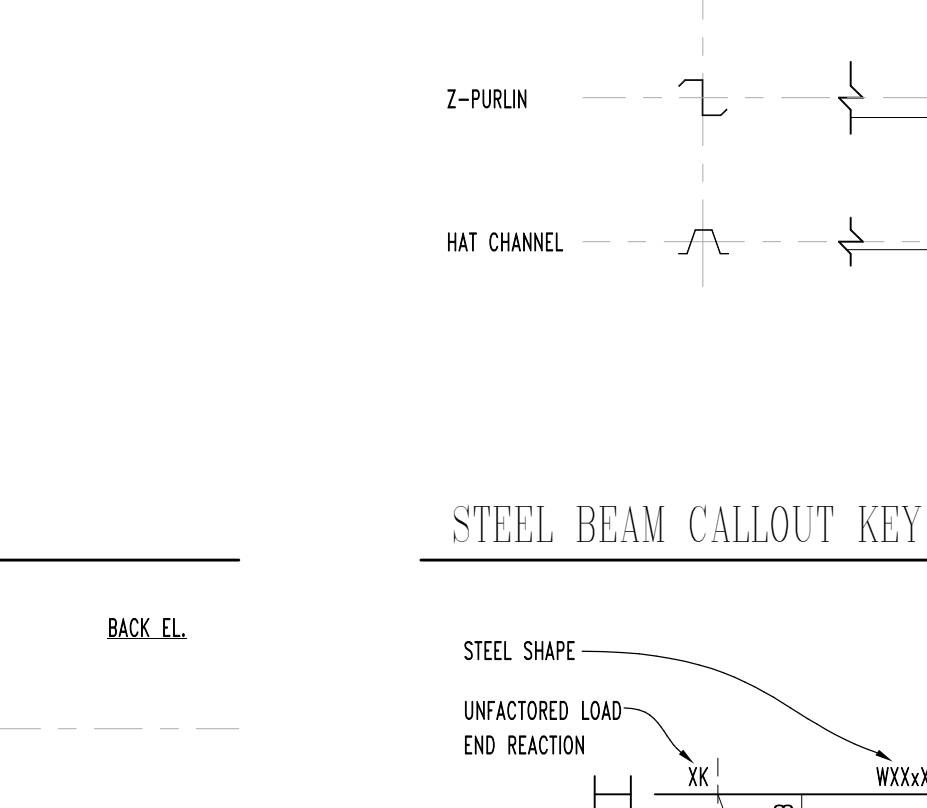
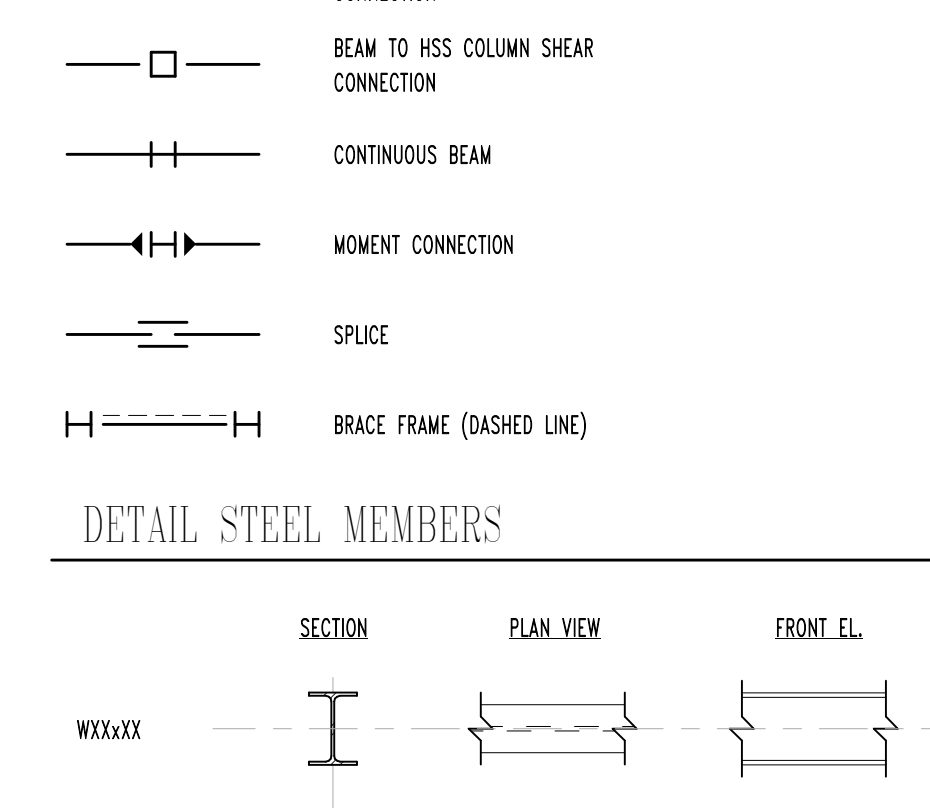
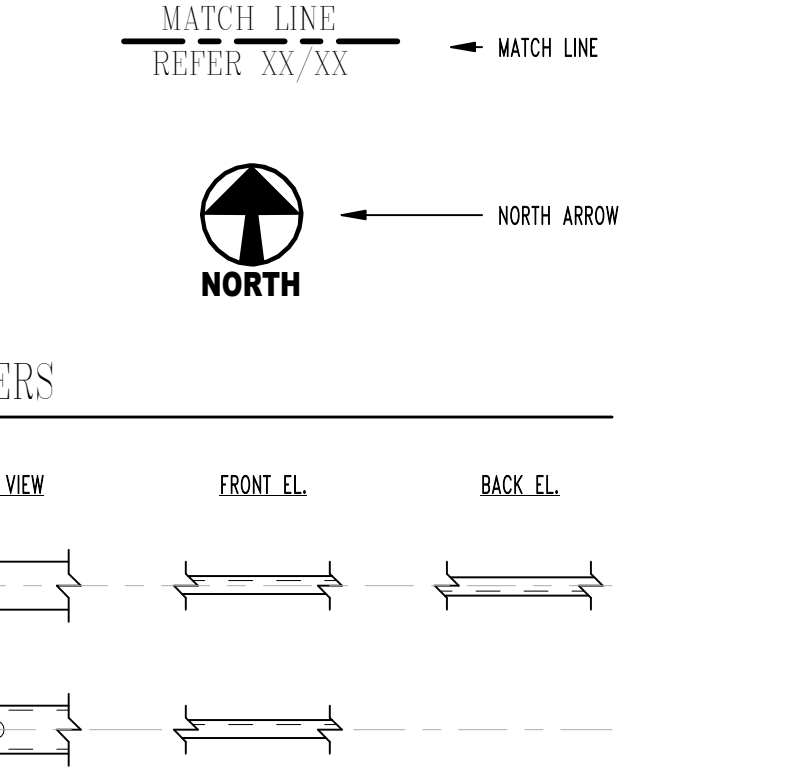
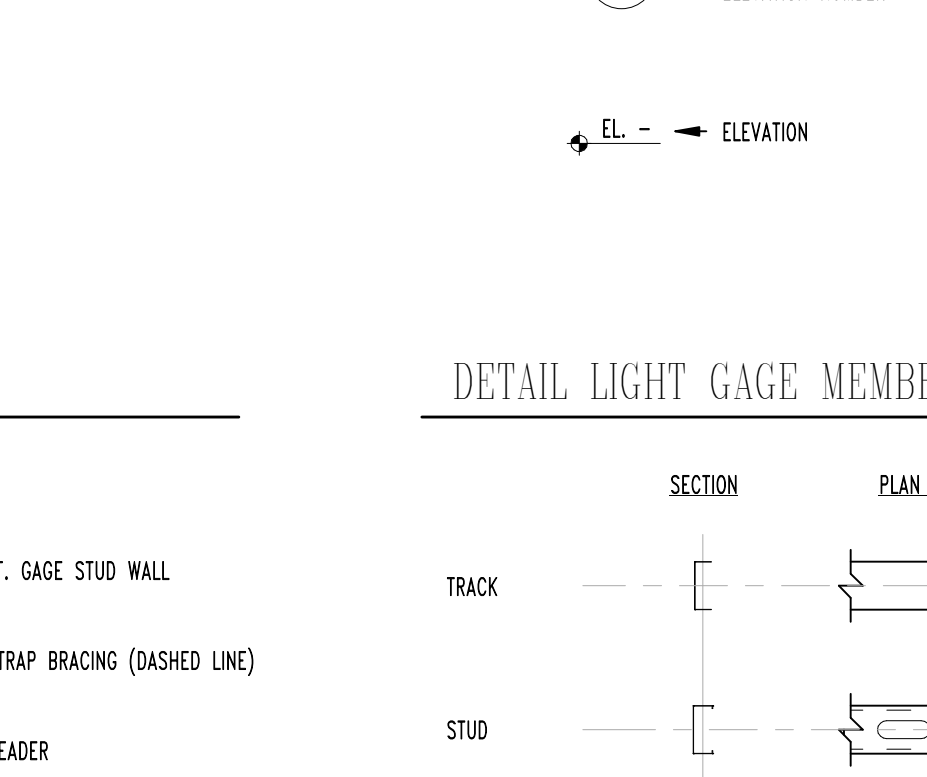
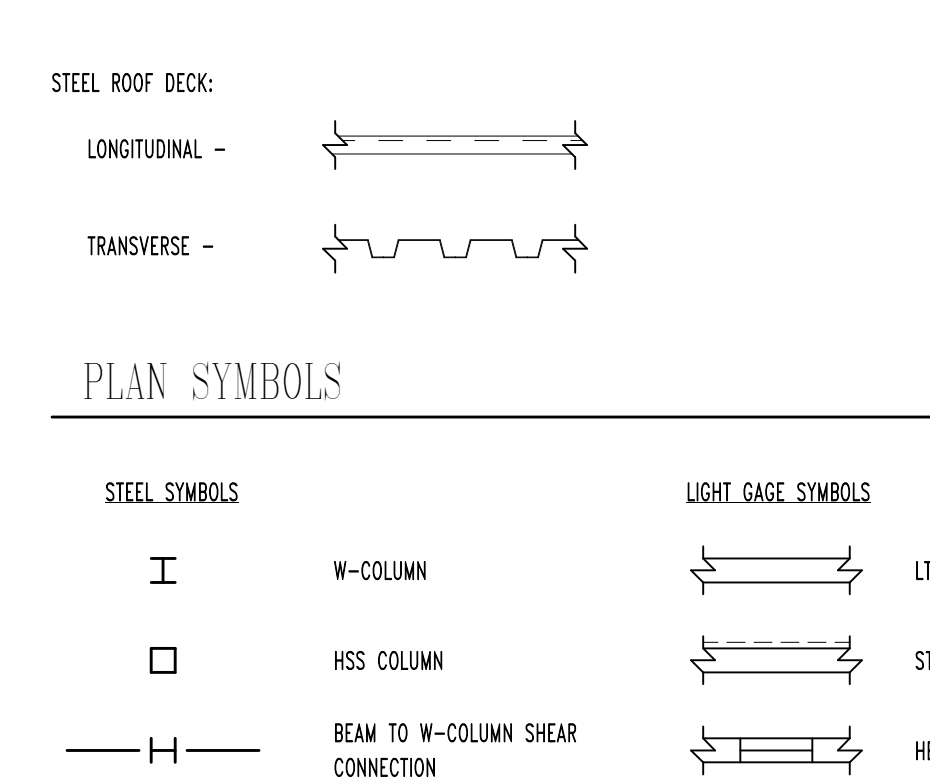
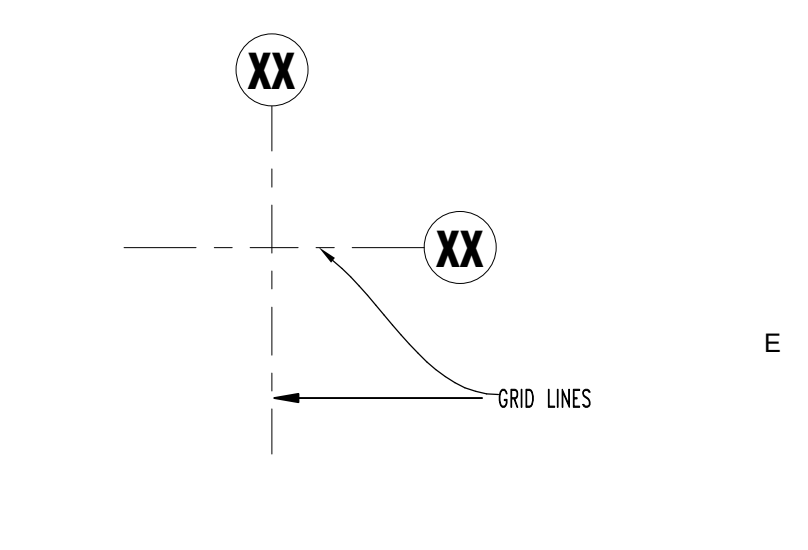
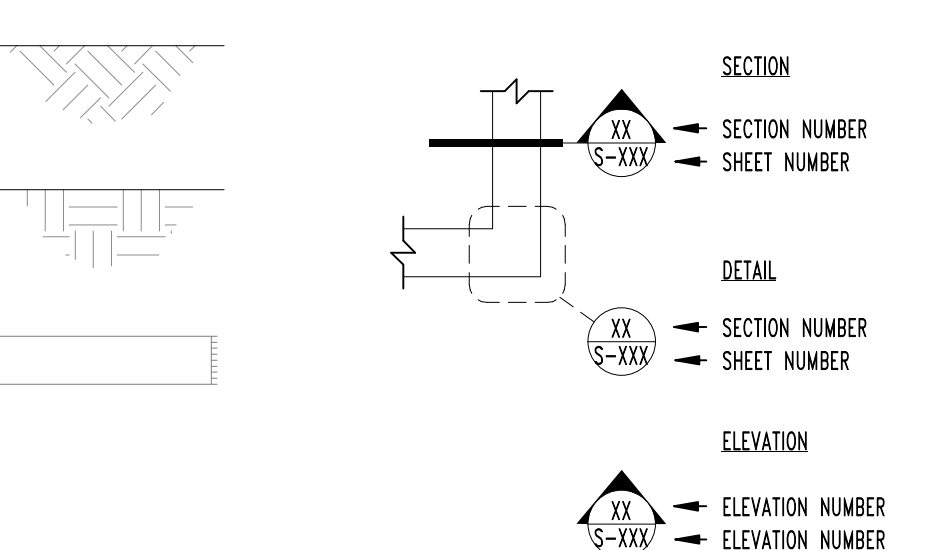
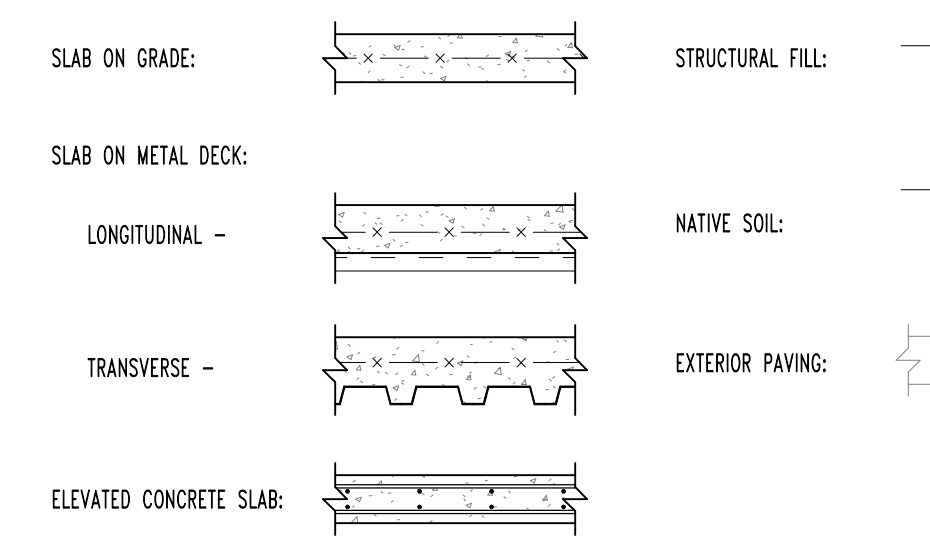
ATTACHMENTS
1. ATTACHMENTS SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF STEEL WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.
2. ATTACHMENTS SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF STEEL WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.

Table with 4 columns: DESCRIPTION ON PLANS, THICKNESS IN IN, FT TO IN, NOTES. Lists various attachment types and dimensions.



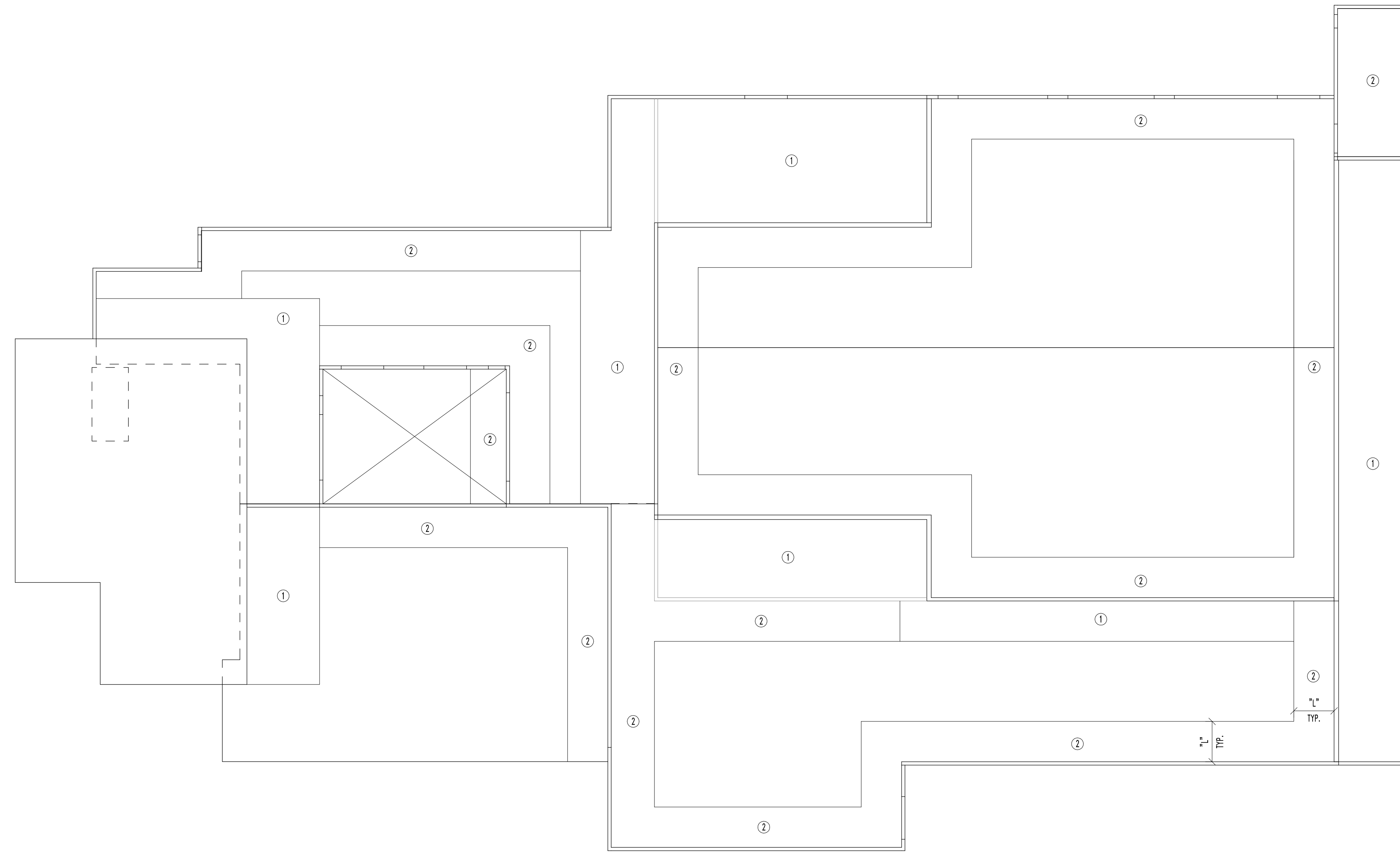
CONCRETE REINFORCING SPLICE SCHEDULE
1. CONCRETE REINFORCING SPLICE SCHEDULE SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF REBAR WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.
2. CONCRETE REINFORCING SPLICE SCHEDULE SHALL BE FABRICATED AND DELIVERED BY A MANUFACTURER OF REBAR WHOSE QUALITY CONTROL PROGRAM IS APPROVED BY THE ARCHITECT/ENGINEER.

Table with 4 columns: F'c (PSI), SPLICE TYPE, #3, #4, #5, #6, #7, #8, #9, #10, BAR SIZE. Lists various concrete reinforcing splice types and dimensions.



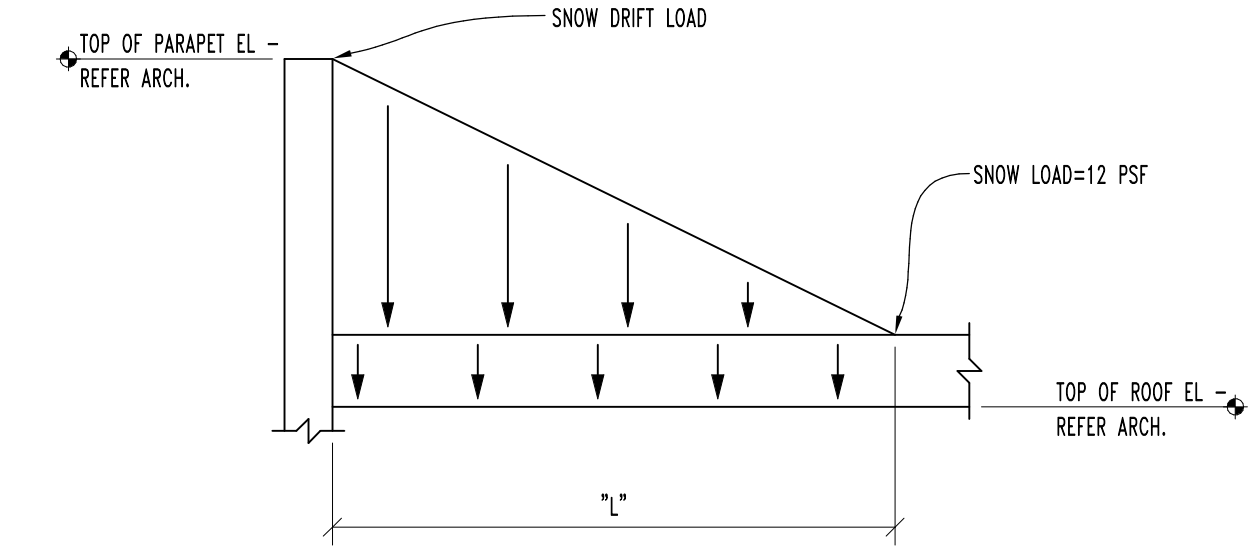
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FOR:
DOÑA ANA COUNTY
845 N MOTEL BLVD., LAS CRUCES, NM 88007
PROJECT NO: 22115L
FILE NAME:
DRAWN BY: Author
CHECKED BY: Checker
SHEET TITLE:
SHEET NO: S-100
STRUCTURAL NOTES
277 E. AMADOR AVE. SUITE 200
LAS CRUCES, NM 88001
PH: (575) 933-5228
SEI JOB NO.: A01-107

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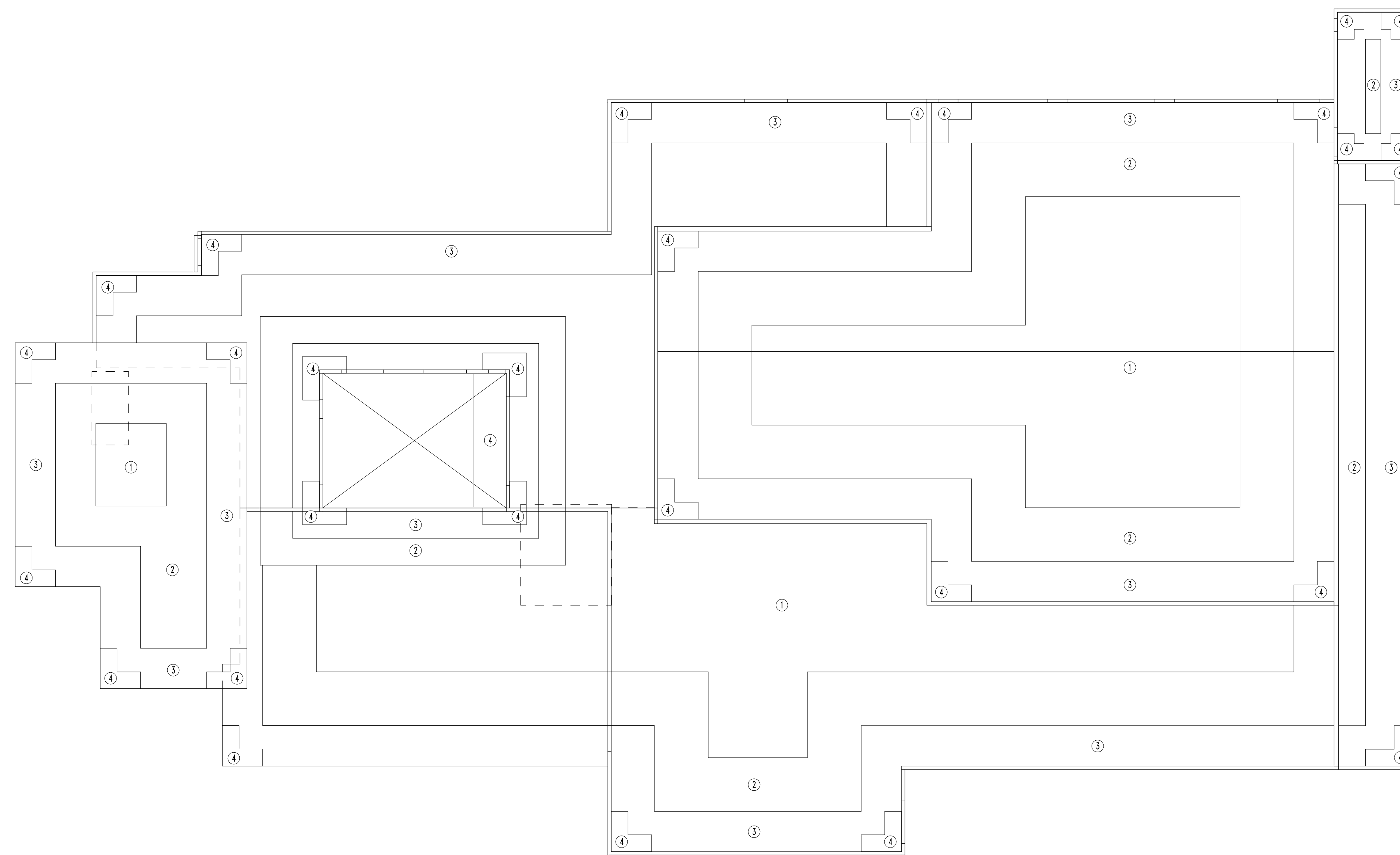


ZONE	SNOW DRIFT LOAD	HORIZONTAL DIMENSION OF DRIFT (L)
①	54 PSF	11'-0"
②	44 PSF	8'-0"

NOTE: LOADS SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY JUST & BECK HAVE BEEN DESIGNED FOR THE SNOW DRIFT LOADS SHOWN



① SNOW DRIFT DIAGRAM SCALE: N.T.S.



ZONE	NET ALLOWABLE UPLIFT PRESSURE, D.W.
①	16 PSF
②	27 PSF
③	35 PSF
④	48 PSF

\* WIND UPLIFT PRESSURES SHOWN ARE ACTUAL ALLOWABLE PRESSURES NEGLECTING ROOF DEAD LOAD. FOR A NET WIND UPLIFT PRESSURE UTILIZE A ROOF DEAD LOAD (DL) OF 15 PSF WITH A LOAD COMBINATION OF 0.6D+0.6W.

② WIND UPLIFT DIAGRAM SCALE: 3/32" = 1'-0"

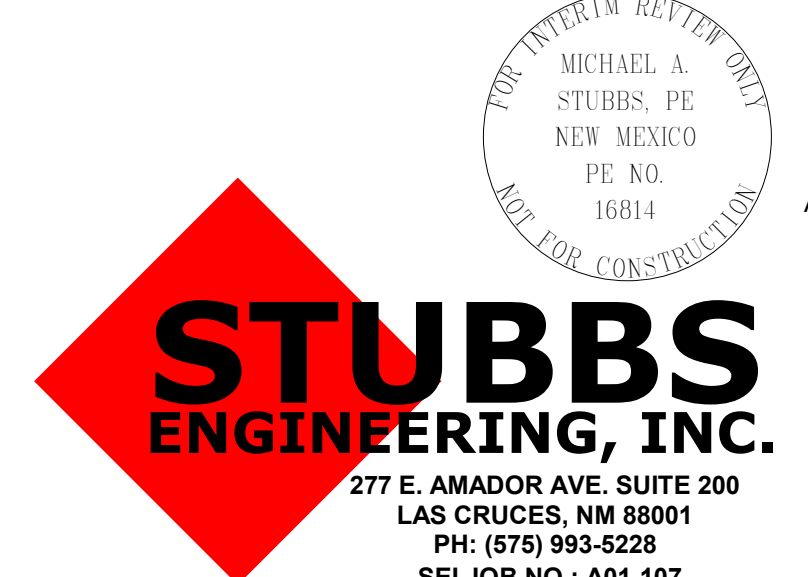
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FOR:  
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MARK	DATE	DESCRIPTION

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 FILE NAME: Author  
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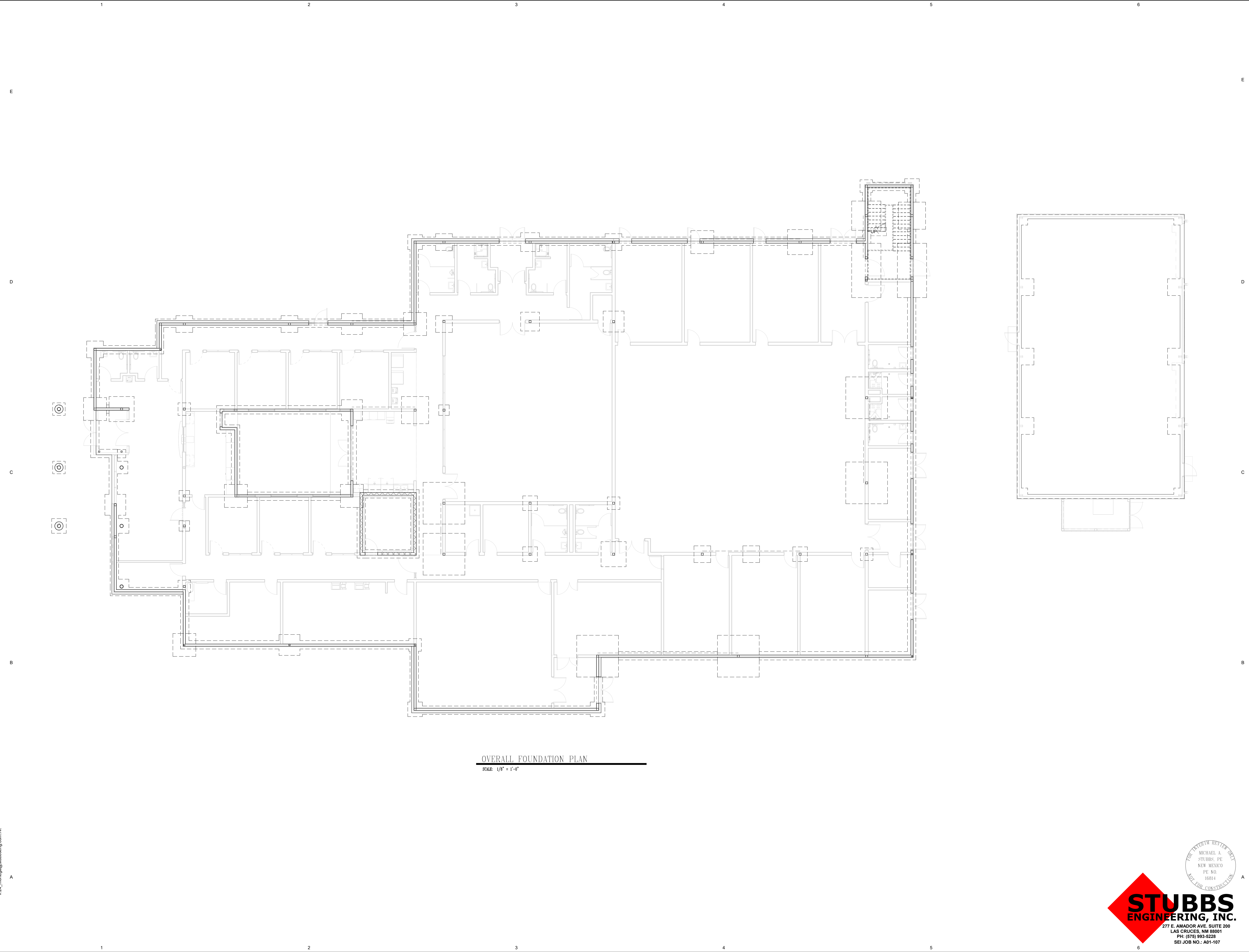


STRUCTURAL DIAGRAMS

SHEET NO.: S-101



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OVERALL FOUNDATION PLAN

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

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MARK	DATE	DESCRIPTION
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PROJECT NO.: 22115L  
 FILE NAME:  
 DRAWN BY: Author  
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FOR THE TERM REVIEW ONLY  
 MICHAEL A. STUBBS, P.E.  
 NEW MEXICO  
 PE NO. 16814  
 SEE LICENSE FOR CONSTRUCTION

**STUBBS ENGINEERING, INC.**  
 277 E. AMADOR AVE, SUITE 200  
 LAS CRUCES, NM 88001  
 PH: (575) 993-5228  
 SEI JOB NO.: A01-107

OVERALL FOUNDATION PLAN  
 SHEET NO.: S-200

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GEOTHERMAL DR., LAS CRUCES, NM

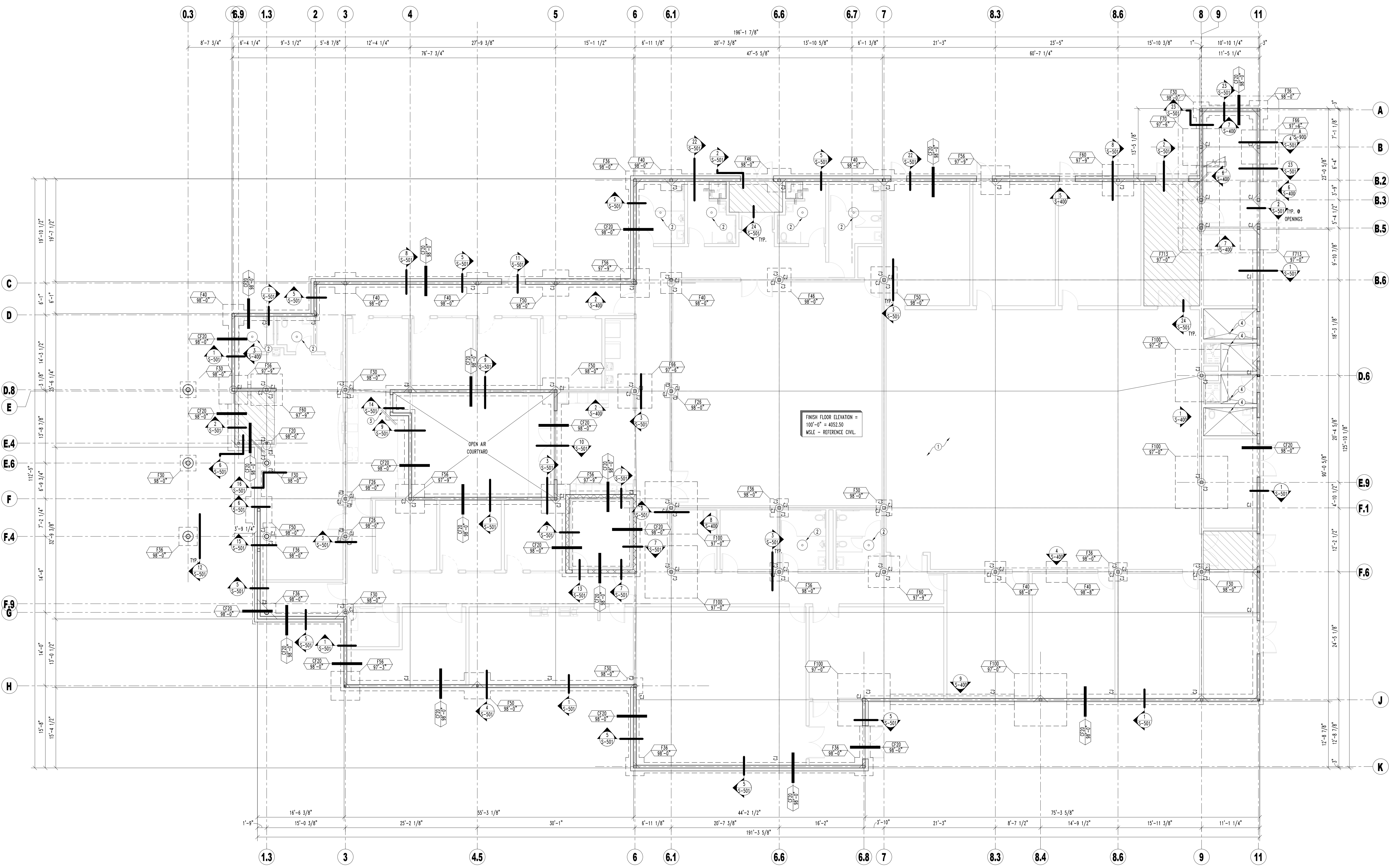
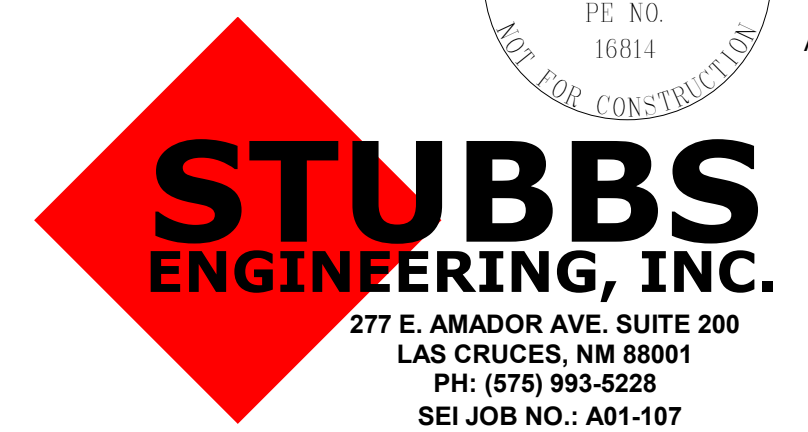
FOR:  
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845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION

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FILE NAME: Author  
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SHEET TITLE:

OEM BUILDING FOUNDATION PLAN

SHEET NO.: S-201



FOOTING SCHEDULE

FOOTING MARK	LONGITUDINAL WIDTH	TRANSVERSE WIDTH	DEPTH	LONGITUDINAL REINFORCEMENT	TRANSVERSE REINFORCEMENT
CF20	CONTINUOUS	2'-0"	1'-0"	3 - #4	#4 @ 12" O.C.
F20	2'-0"	2'-0"	1'-0"	3 - #5	3 - #5
F26	2'-6"	2'-6"	1'-0"	5 - #5	5 - #5
F30	3'-0"	3'-0"	1'-0"	5 - #5	5 - #5
F36	3'-6"	3'-6"	1'-0"	5 - #5	5 - #5
F40	4'-0"	4'-0"	1'-0"	6 - #5	6 - #5
F46	4'-6"	4'-6"	1'-0"	6 - #5	6 - #5
F50	5'-0"	5'-0"	1'-0"	6 - #6	6 - #6
F56	5'-6"	5'-6"	1'-2"	6 - #6	6 - #6
F60	6'-0"	6'-0"	1'-3"	7 - #6	7 - #6
F66	6'-6"	6'-6"	1'-4"	8 - #6	8 - #6
F70	7'-0"	7'-0"	1'-4"	8 - #6	8 - #6
F100	10'-0"	10'-0"	2'-0"	13 - #6	13 - #6
F713	7'-0"	13'-0"	2'-0"	8 - #6	21 - #6

OEM BUILDING FOUNDATION PLAN

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

PLAN NOTES

- ALL DIMENSIONS ARE TO FACE OF CONCRETE UNLESS NOTED OTHERWISE.
- CJ INDICATES A SLAB CONSTRUCTION JOINT. REFERENCE DETAIL 1 / S-500.
- SW - INDICATES WALL TYPE. REFERENCE WALL SCHEDULE THIS SHEET.
- SW - INDICATES STRAP WALL TYPE. REFERENCE STRAP WALL SCHEDULE.
- FTG INDICATES FOOTING STEP. REFERENCE DETAIL - / - - - .
- INDICATES LOAD BEARING WALL FROM ABOVE.
- INDICATES WALK OFF MAT. REFER ARCH FOR SIZE & EXTENTS

KEY NOTES

- 4" CONCRETE SLAB WITH W8x6x6-W1.4W1.4 MESH IN CENTER OF SLAB OVER 10 MIL VAPOR BARRIER, AND PREPARED SUBGRADE. REFERENCE STRUCTURAL NOTES
- FLOOR DRAIN. COORDINATE WITH PLUMBING AND ARCHITECTURAL. SLOPE SLAB IN 12-INCH RADIUS AROUND DRAIN 1/8":12"
- 2-#4x4'-0" CENTERED IN SLAB
- FLOOR DRAIN. COORDINATE WITH PLUMBING AND ARCHITECTURAL. SLOPE SLAB IN AROUND DRAIN 1/8":12"
- #4 HAIR PIN
- 6" CONCRETE SLAB WITH W8x6x6-W1.4W1.4 MESH IN CENTER OF SLAB OVER 10 MIL VAPOR BARRIER, AND PREPARED SUBGRADE. REFERENCE STRUCTURAL NOTES

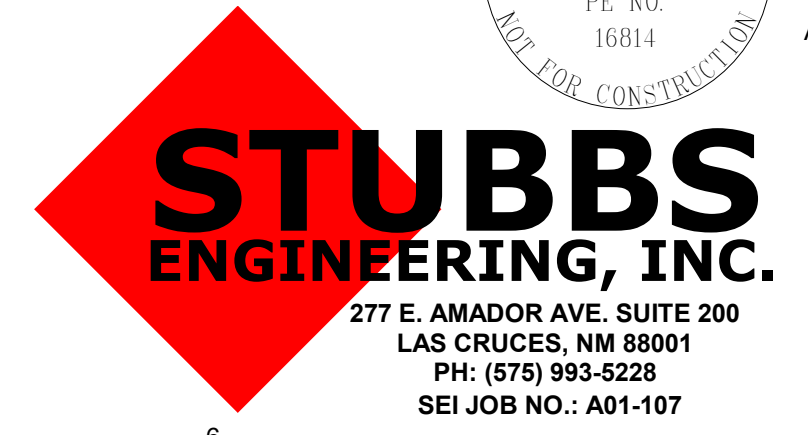
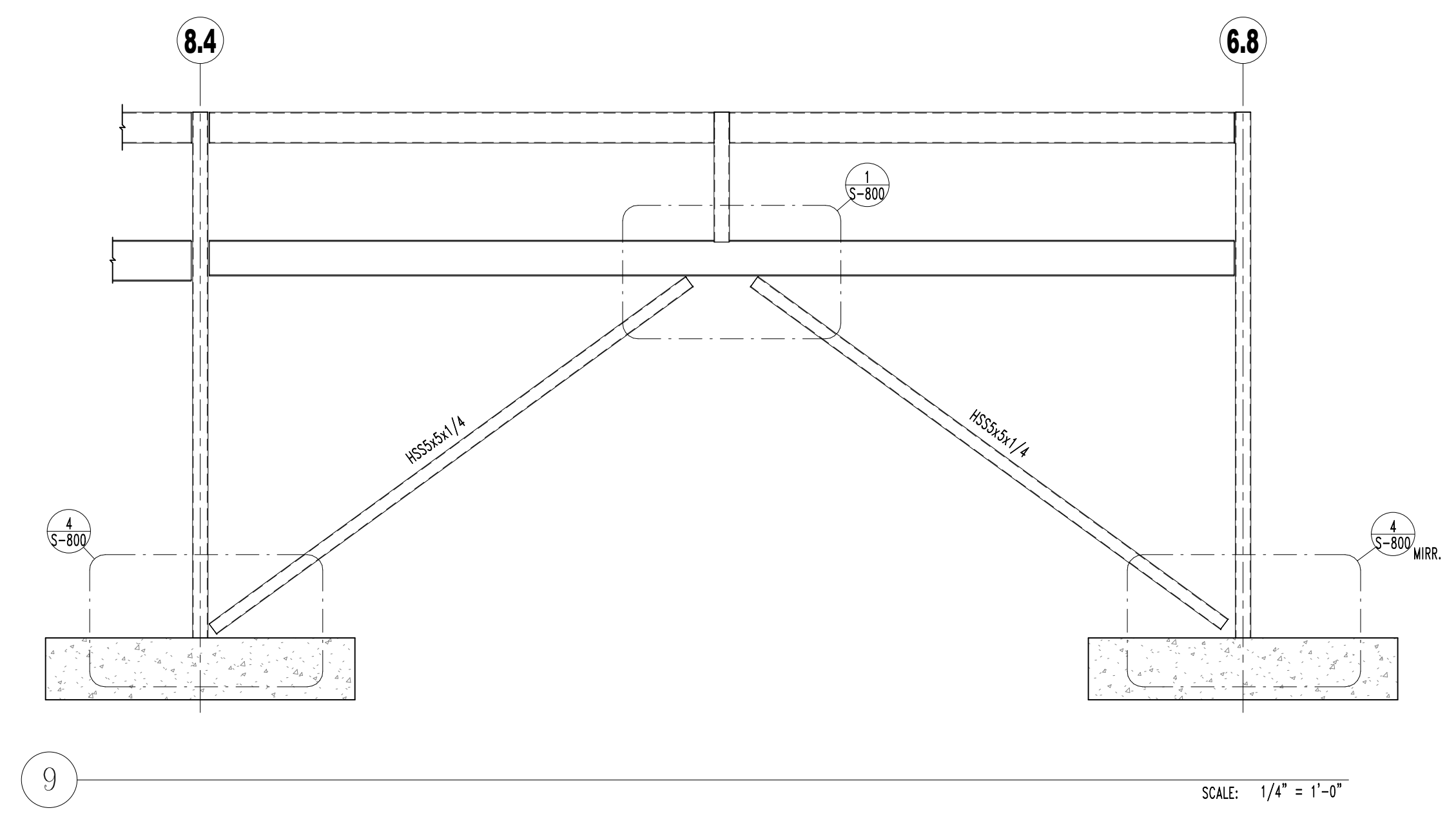
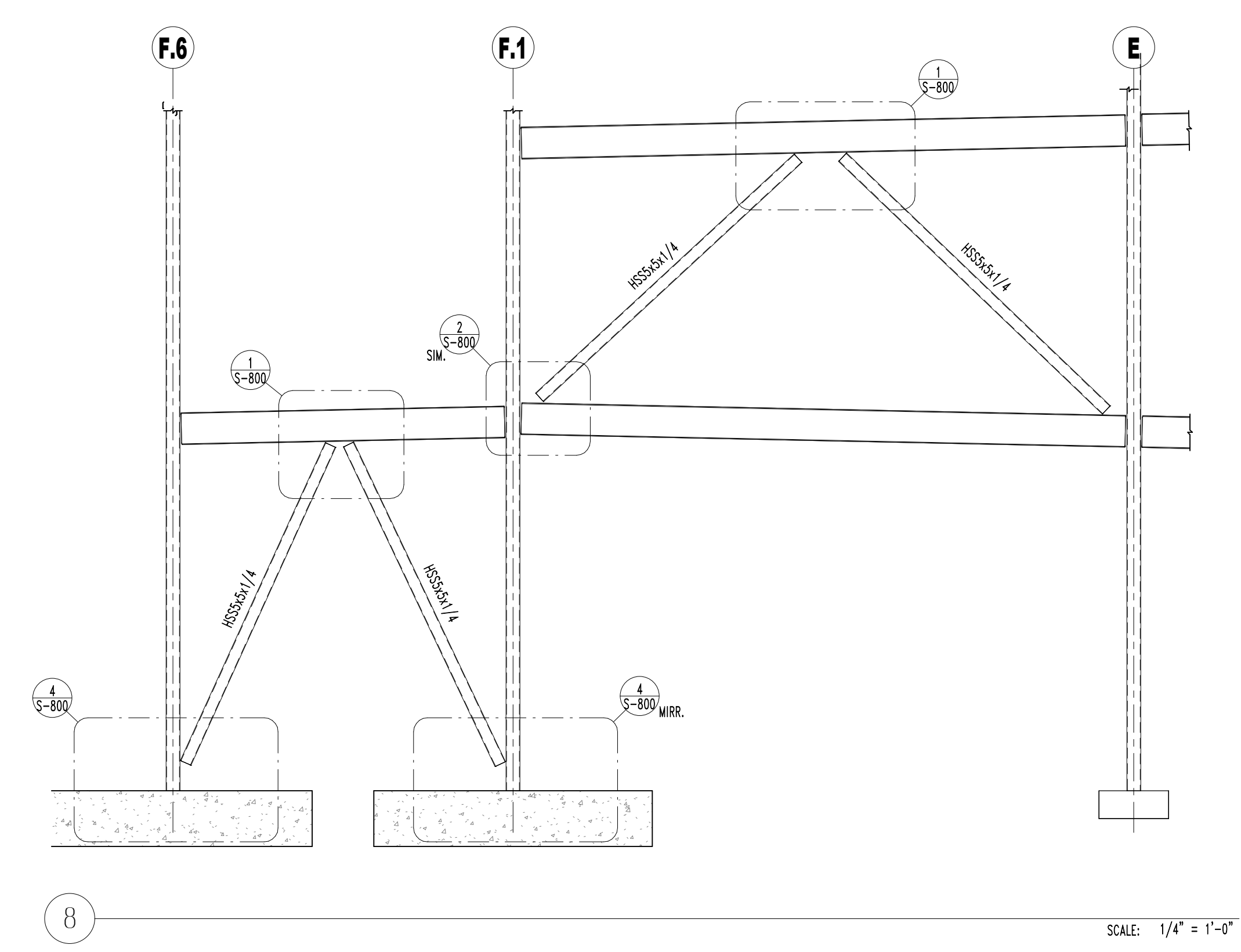
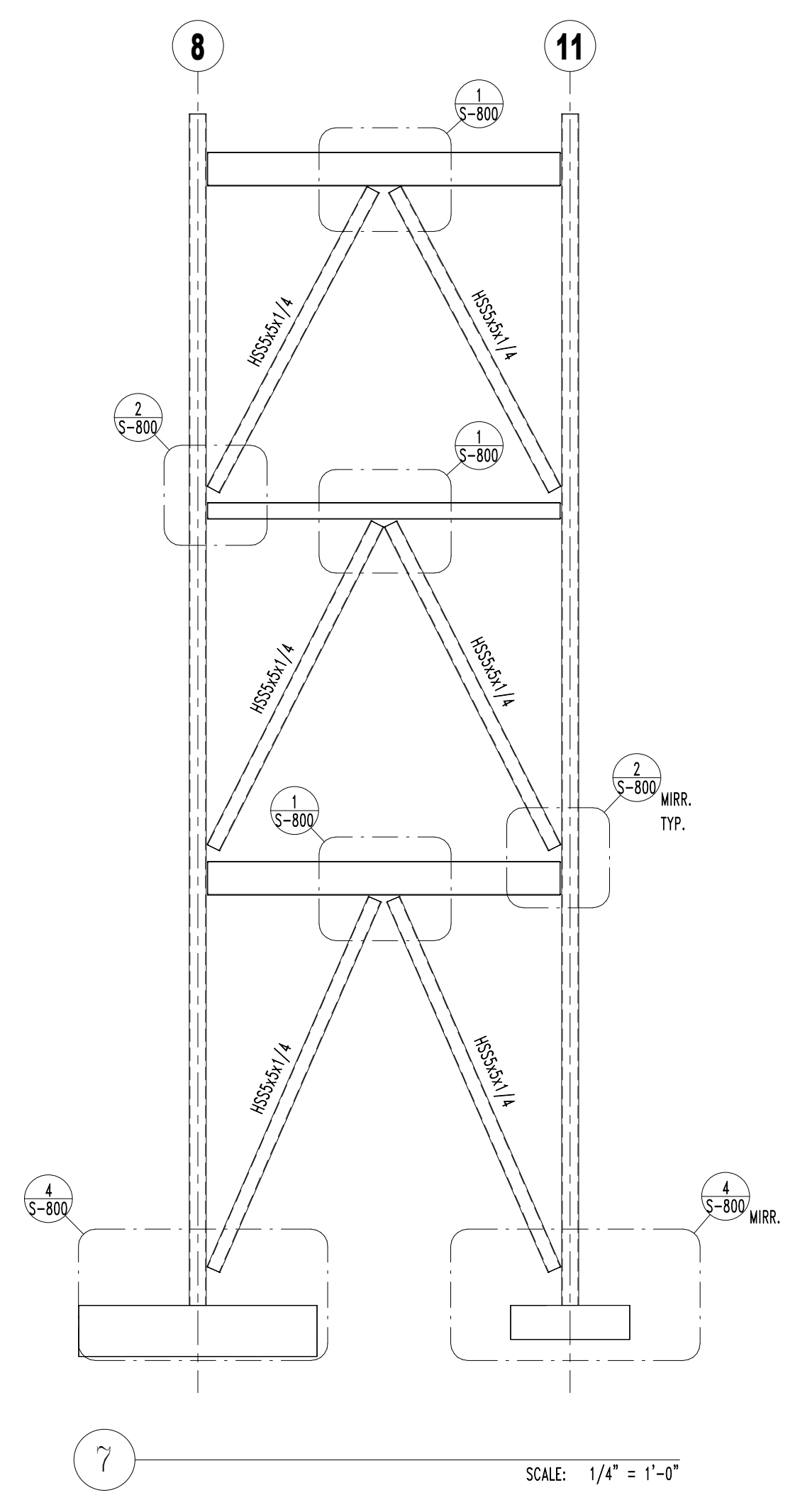
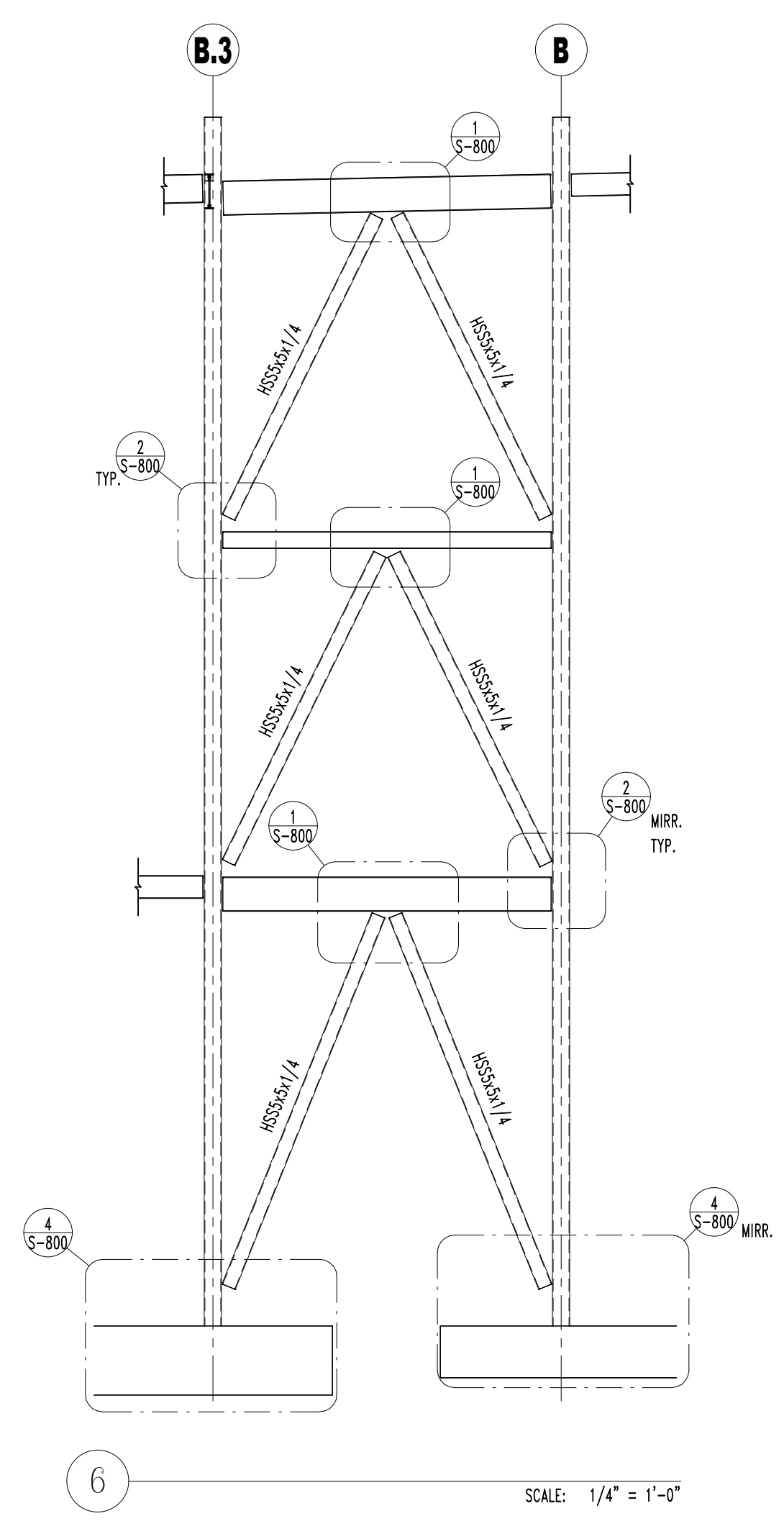
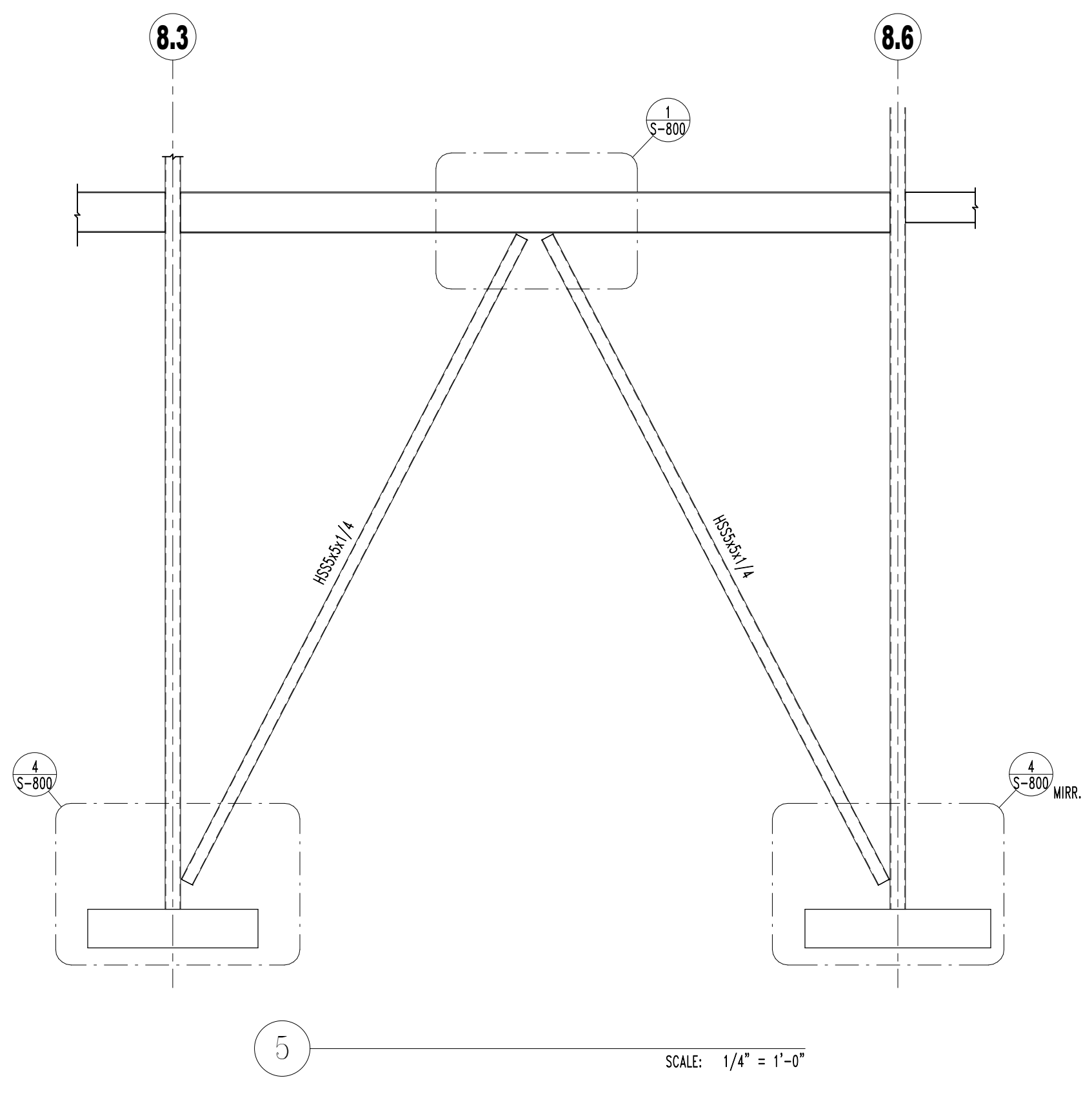
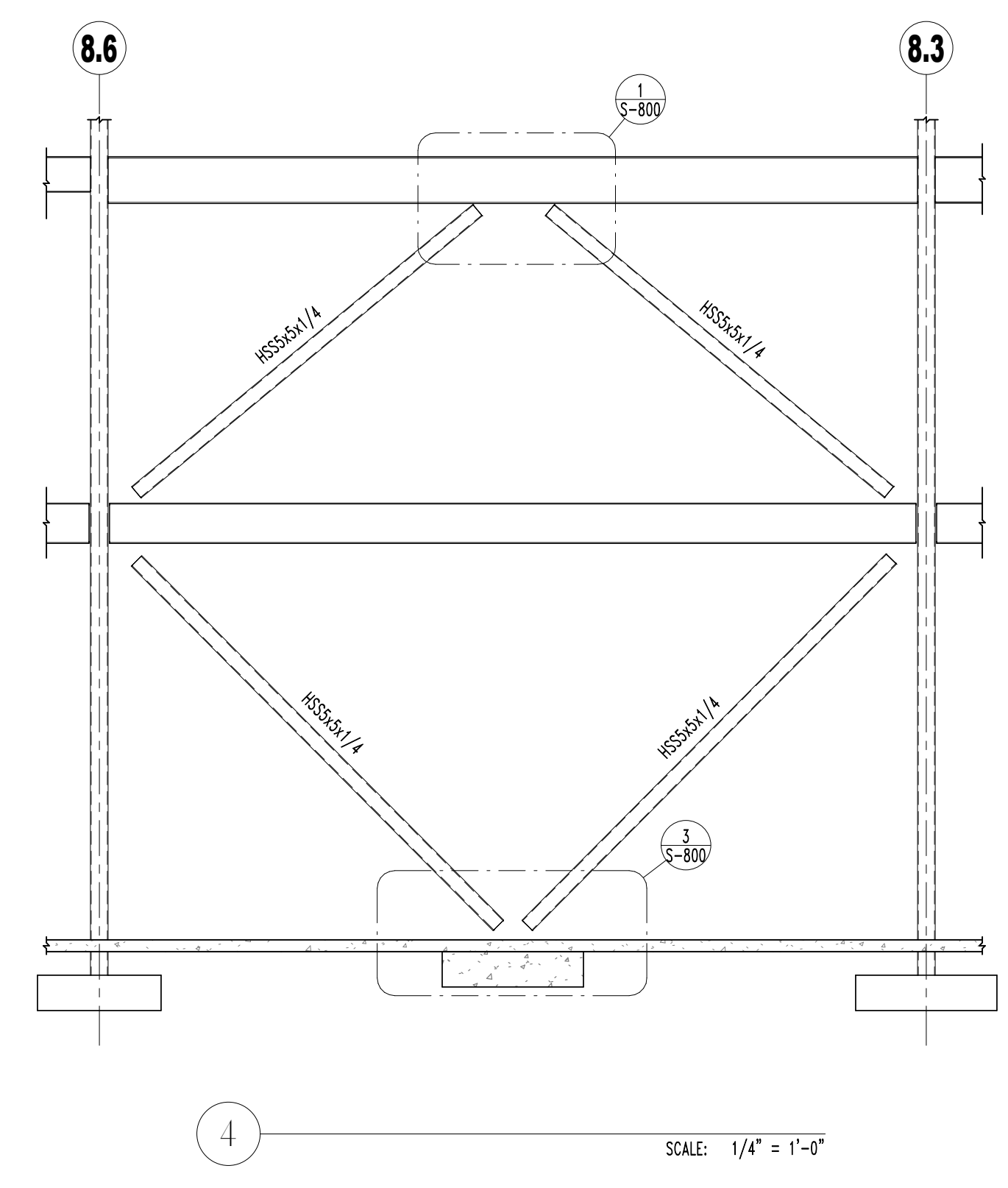
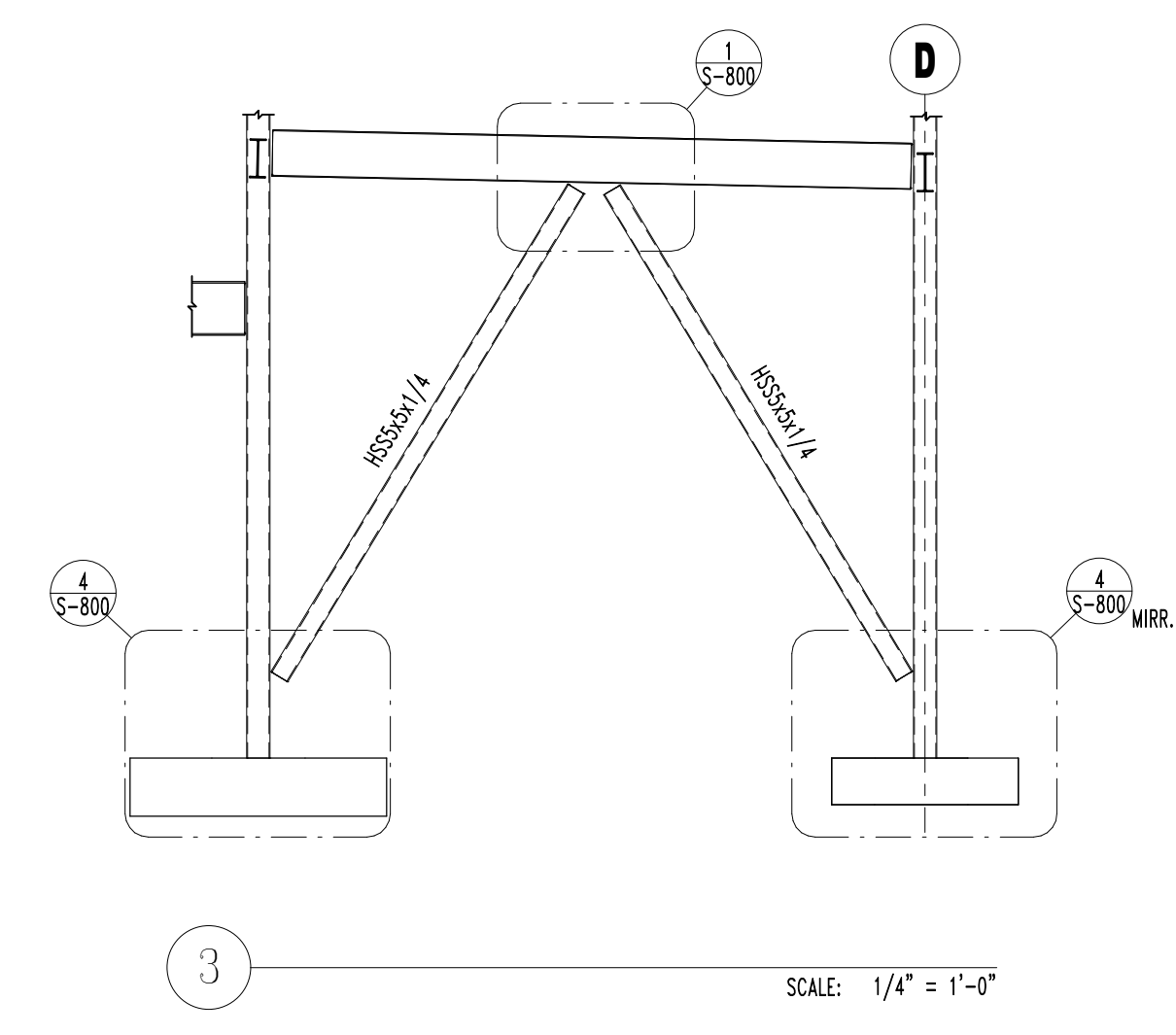
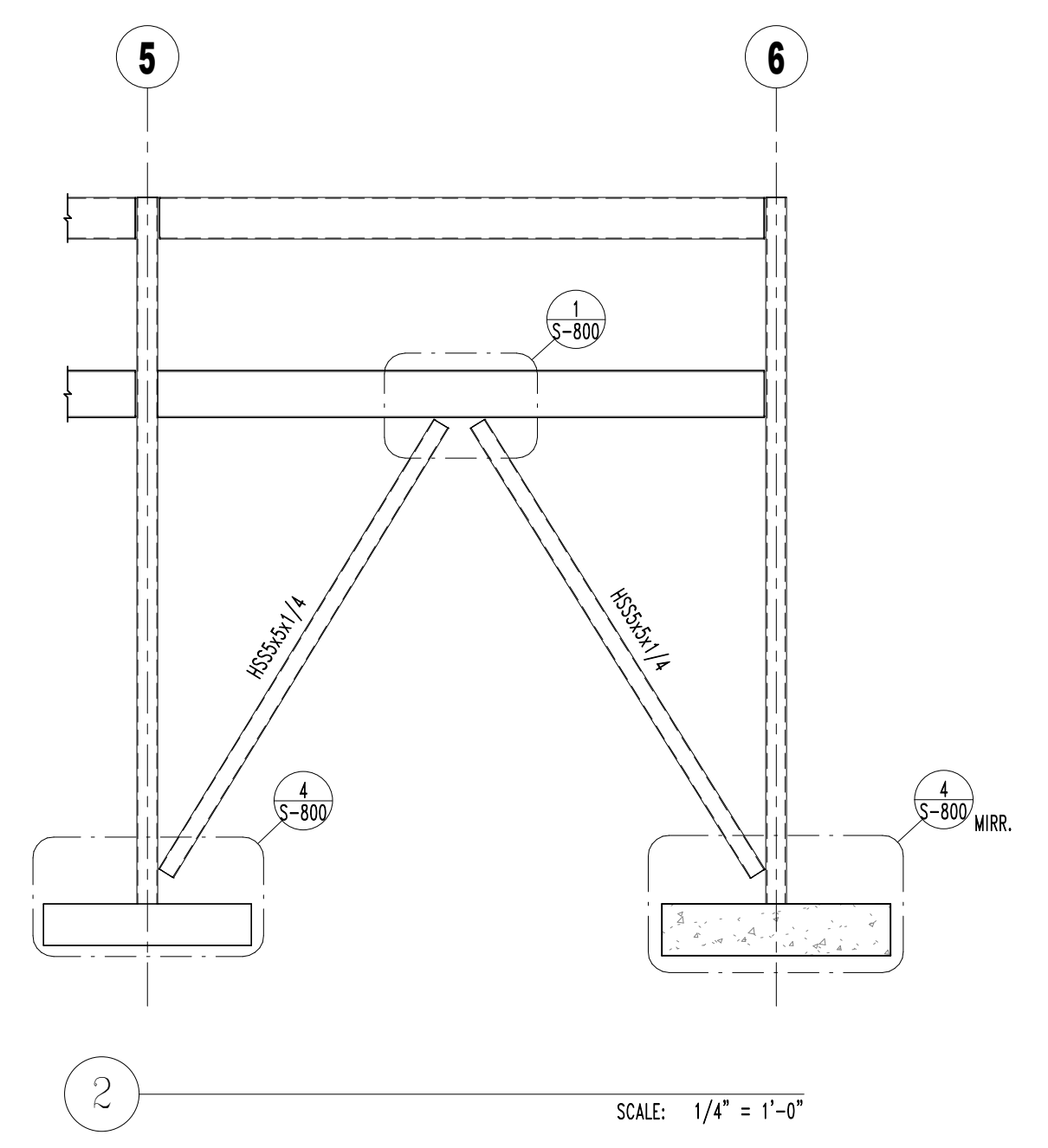
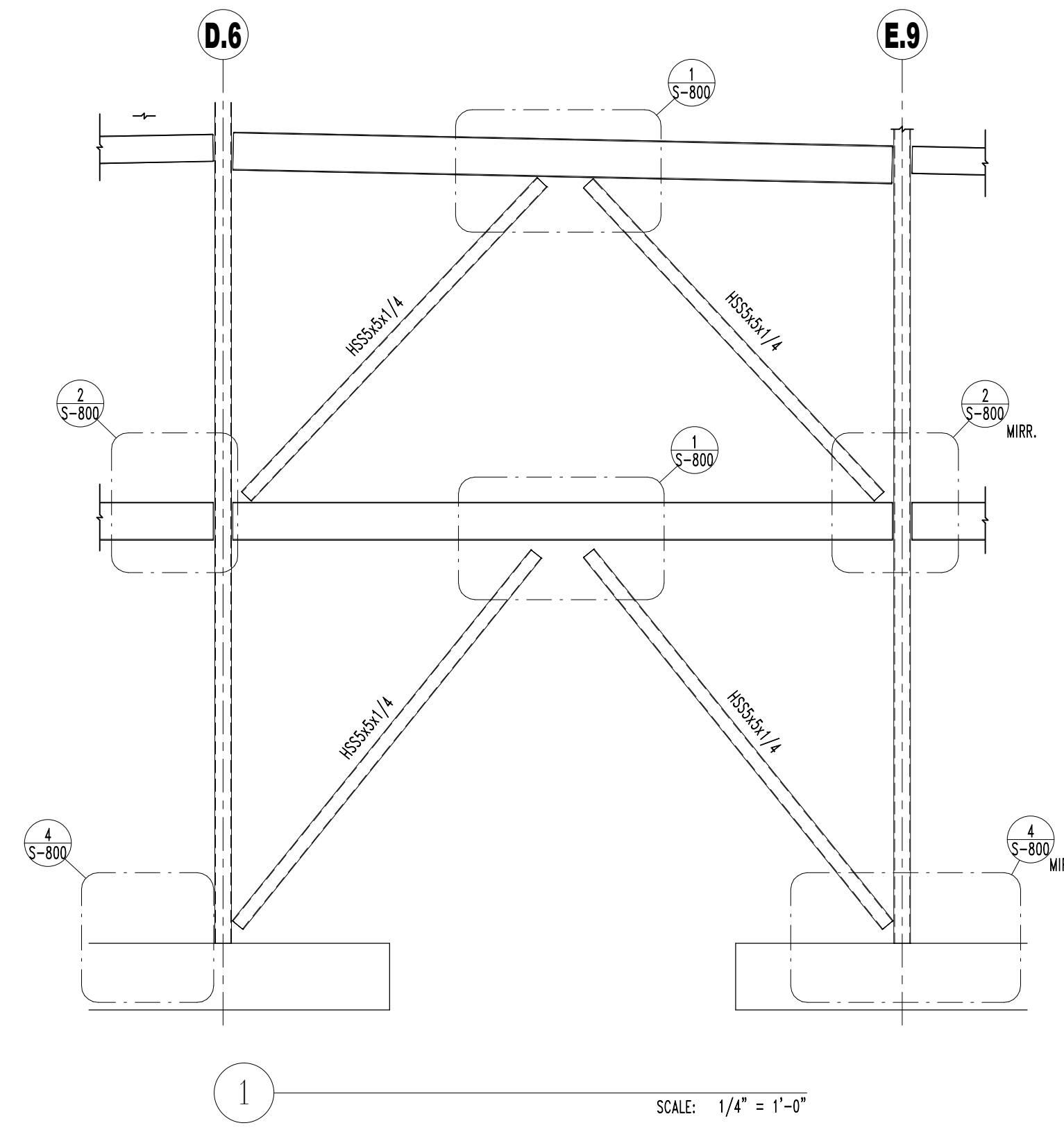
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FOR:  
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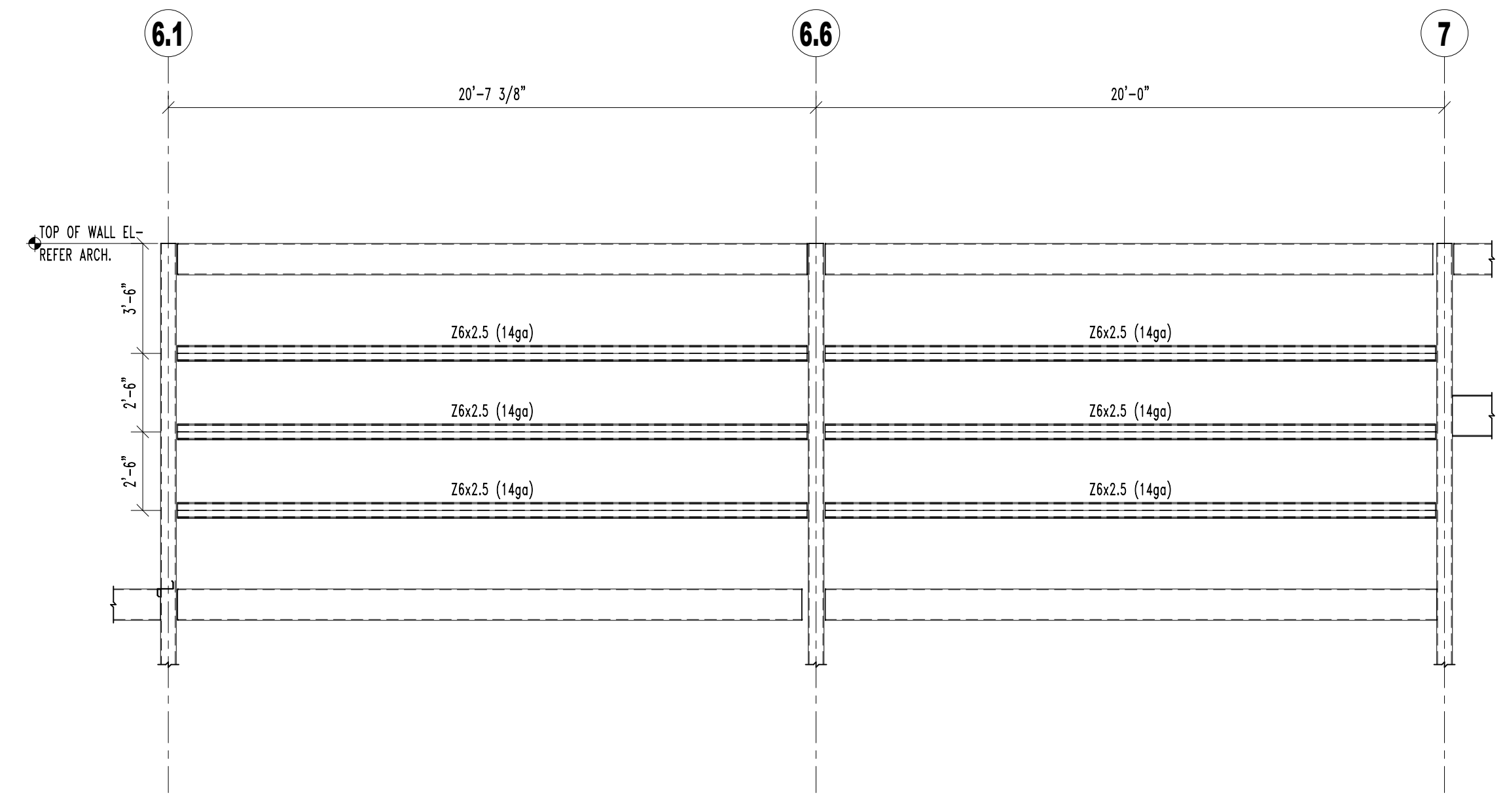
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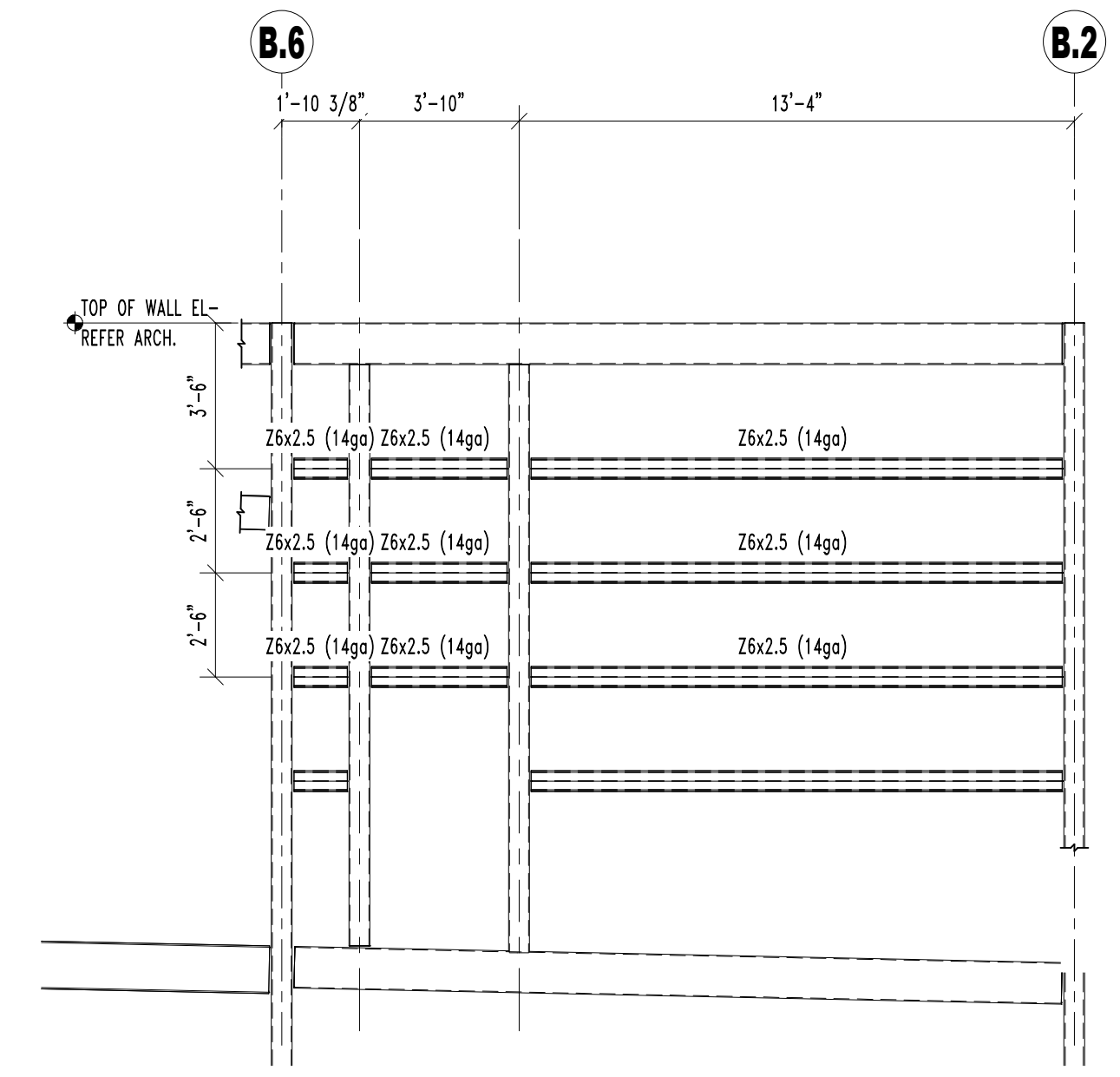
BRACE FRAME ELEVATIONS

SHEET NO.: S-400

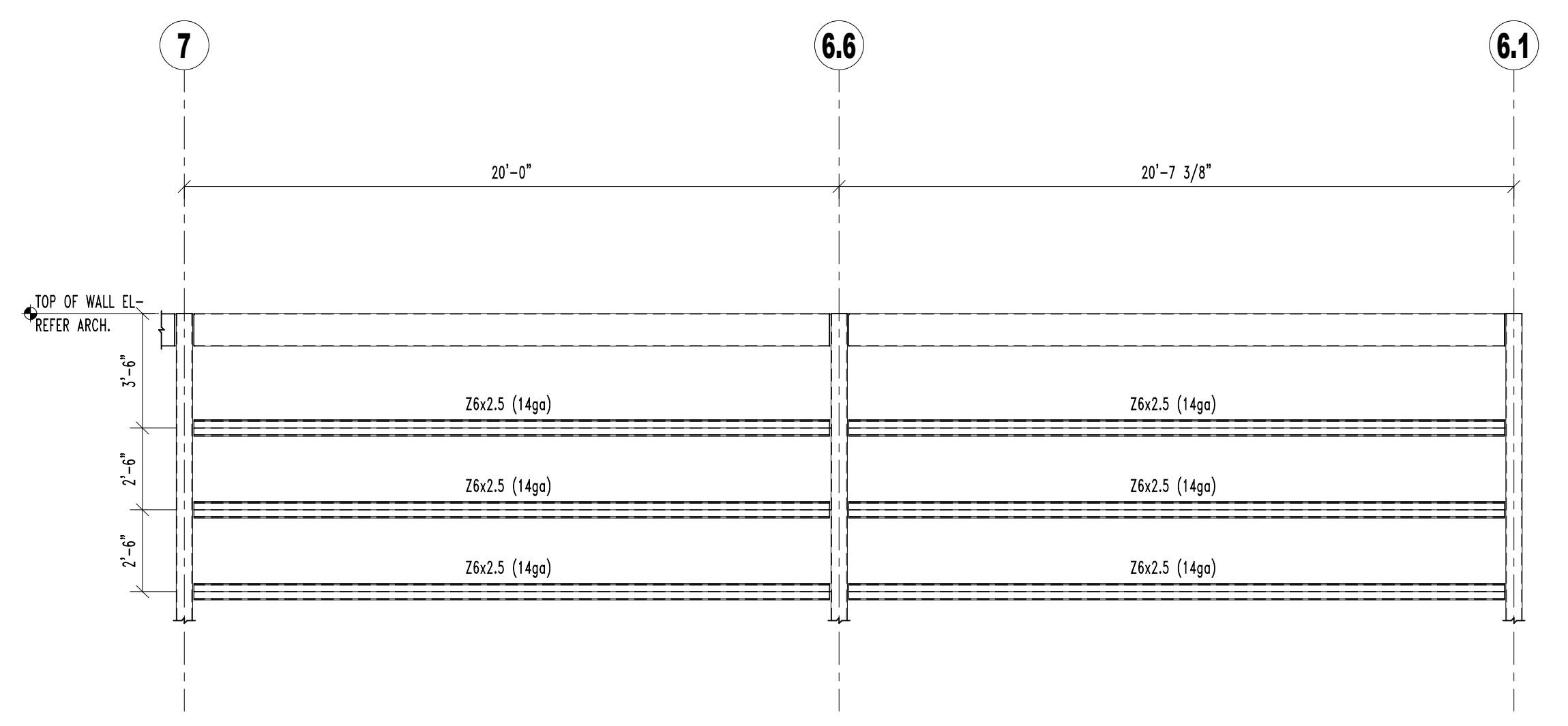
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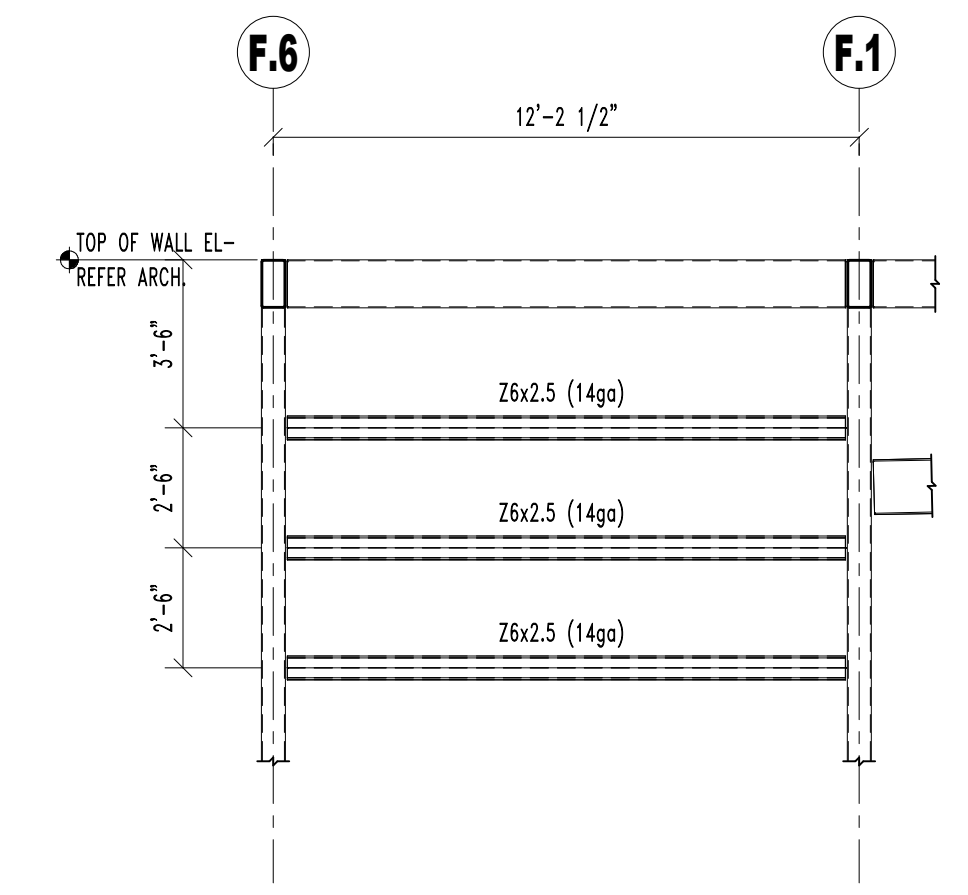
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SCALE: 1/4" = 1'-0"



2 SCREEN WALL ELEVATION  
SCALE: 1/4" = 1'-0"



3 SCREEN WALL ELEVATION  
SCALE: 1/4" = 1'-0"



4 SCREEN WALL ELEVATION  
SCALE: 1/4" = 1'-0"

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845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION

PROJECT NO.: 22115L

FILE NAME:

DRAWN BY: Author

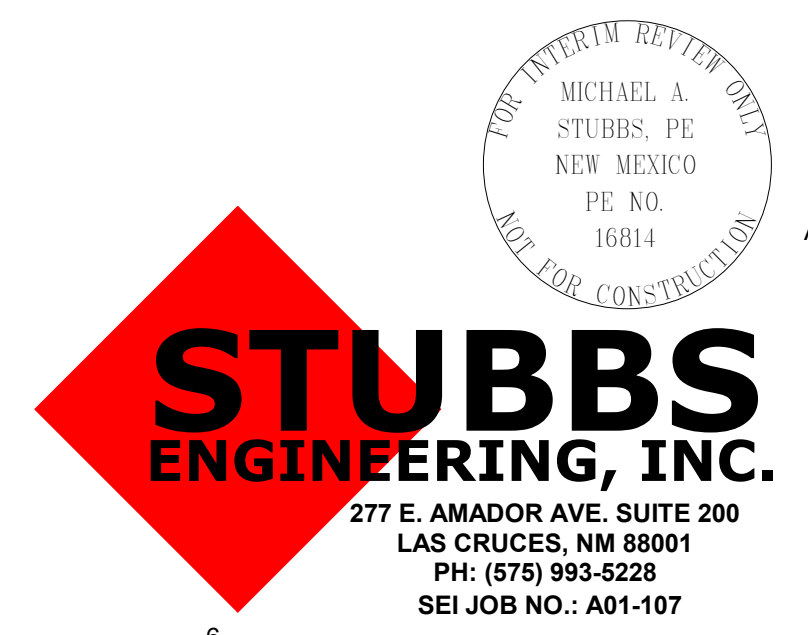
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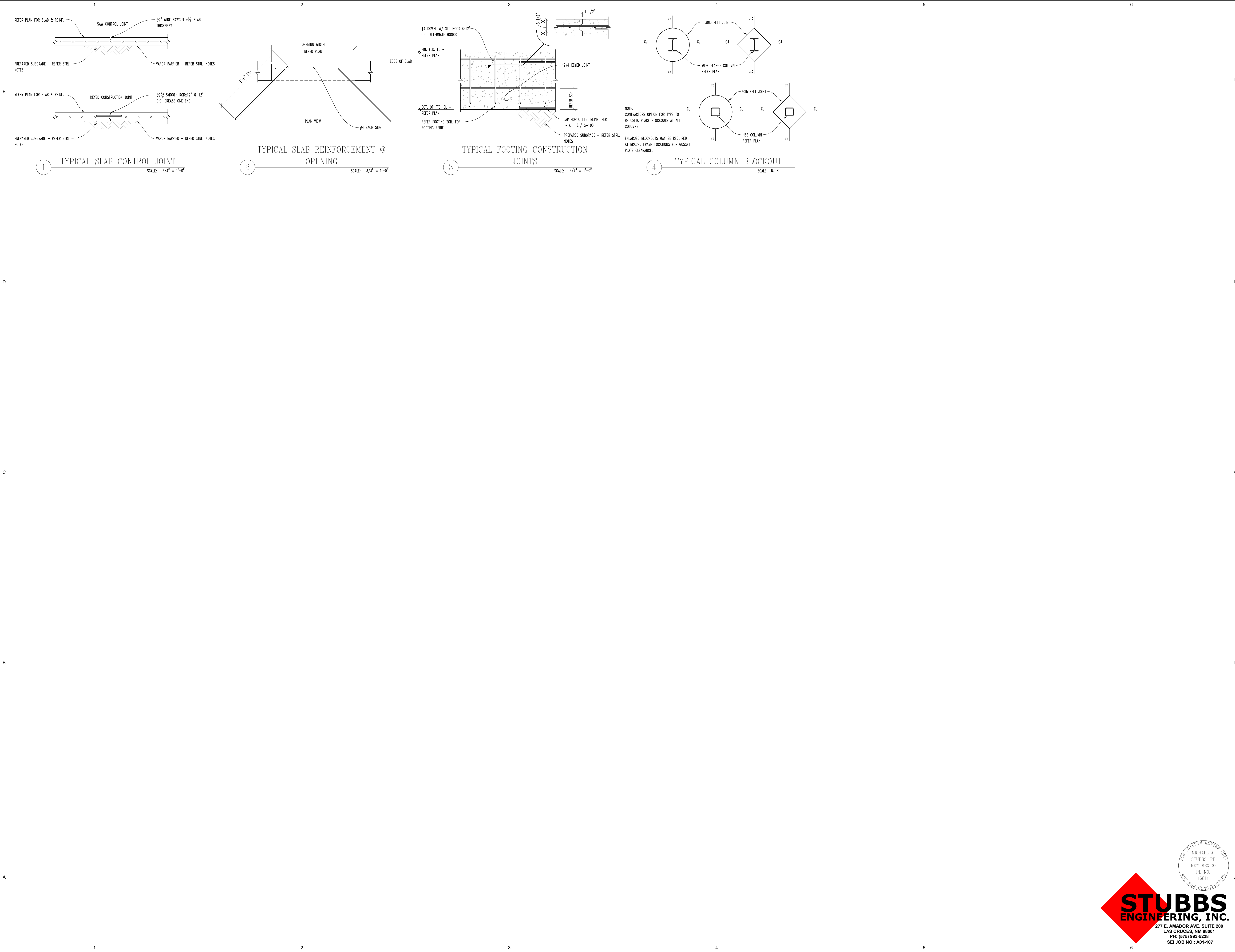
SCREEN WALL ELEVATIONS

SHEET NO.:

S-410



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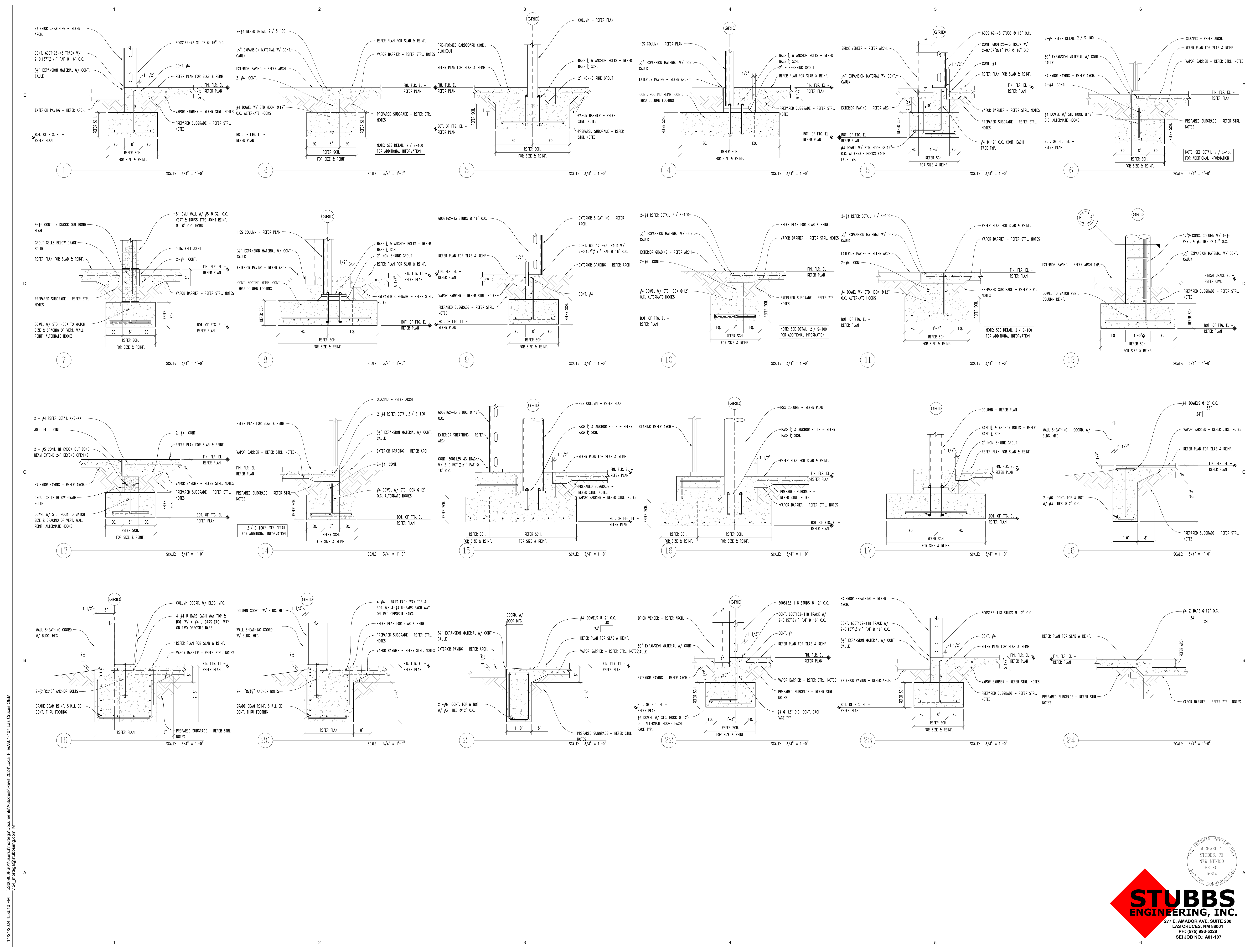
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PROJECT NO.: 22115L  
FILE NAME:  
DRAWN BY: Author  
CHECKED BY: Checker  
SHEET TITLE:  
SHEET NO.: S-500

**STUBBS ENGINEERING, INC.**  
277 E. AMADOR AVE, SUITE 200  
LAS CRUCES, NM 88001  
PH: (575) 993-5228  
SEI JOB NO.: A01-107

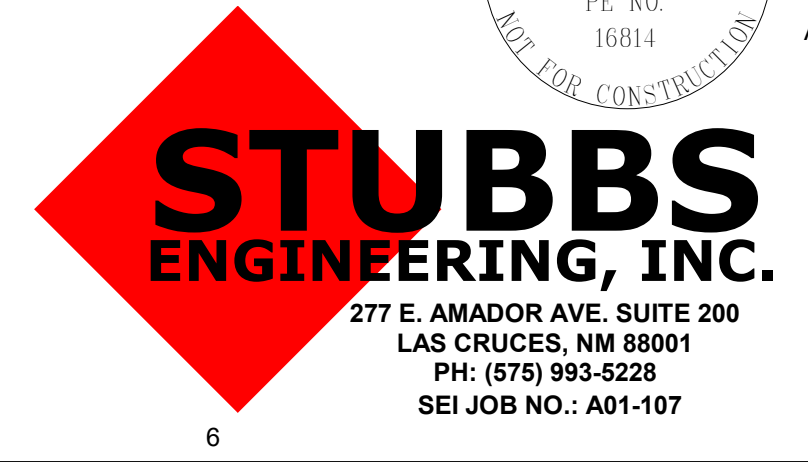
MICHAEL A. STUBBS, P.E.  
NEW MEXICO  
PE NO. 16814





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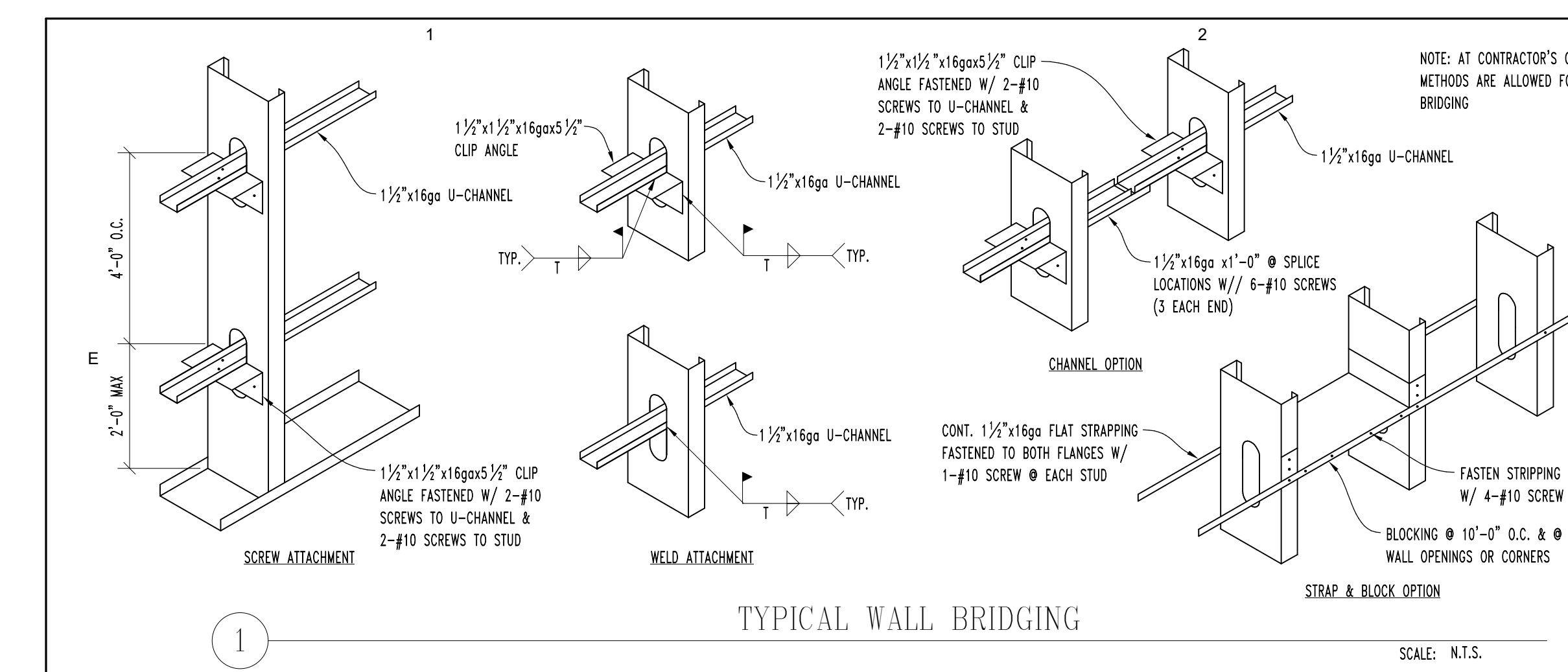
**OEM EMERGENCY OPERATIONS CENTER**  
 GEOTHERMAL DR., LAS CRUCES, NM  
 FOR: DOÑA ANA COUNTY  
 845 N MOTEL BLVD., LAS CRUCES, NM 88007



MARK	DATE	DESCRIPTION
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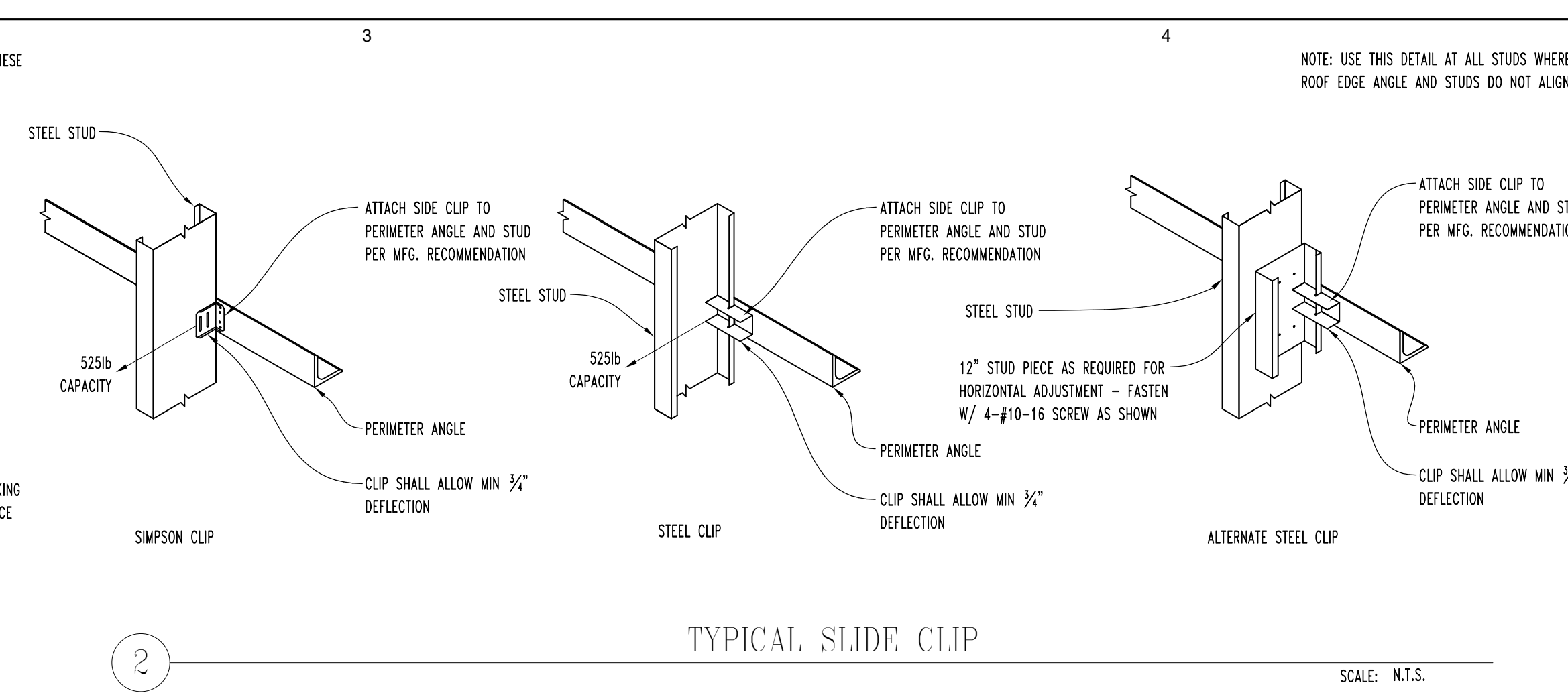
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DRAWN BY:	Author
CHECKED BY:	Checker
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SHEET NO.:	S-501

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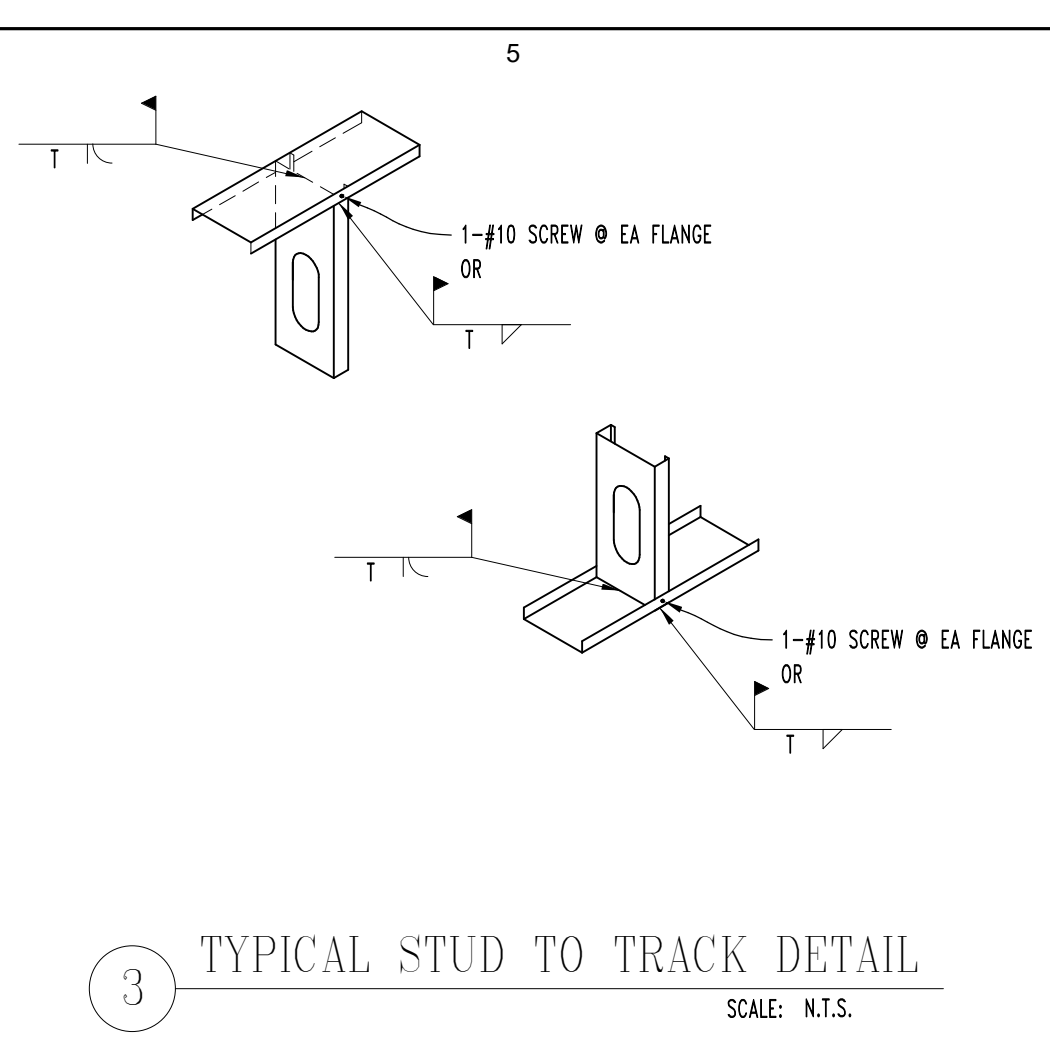
1 TYPICAL WALL BRIDGING

SCALE: N.T.S.



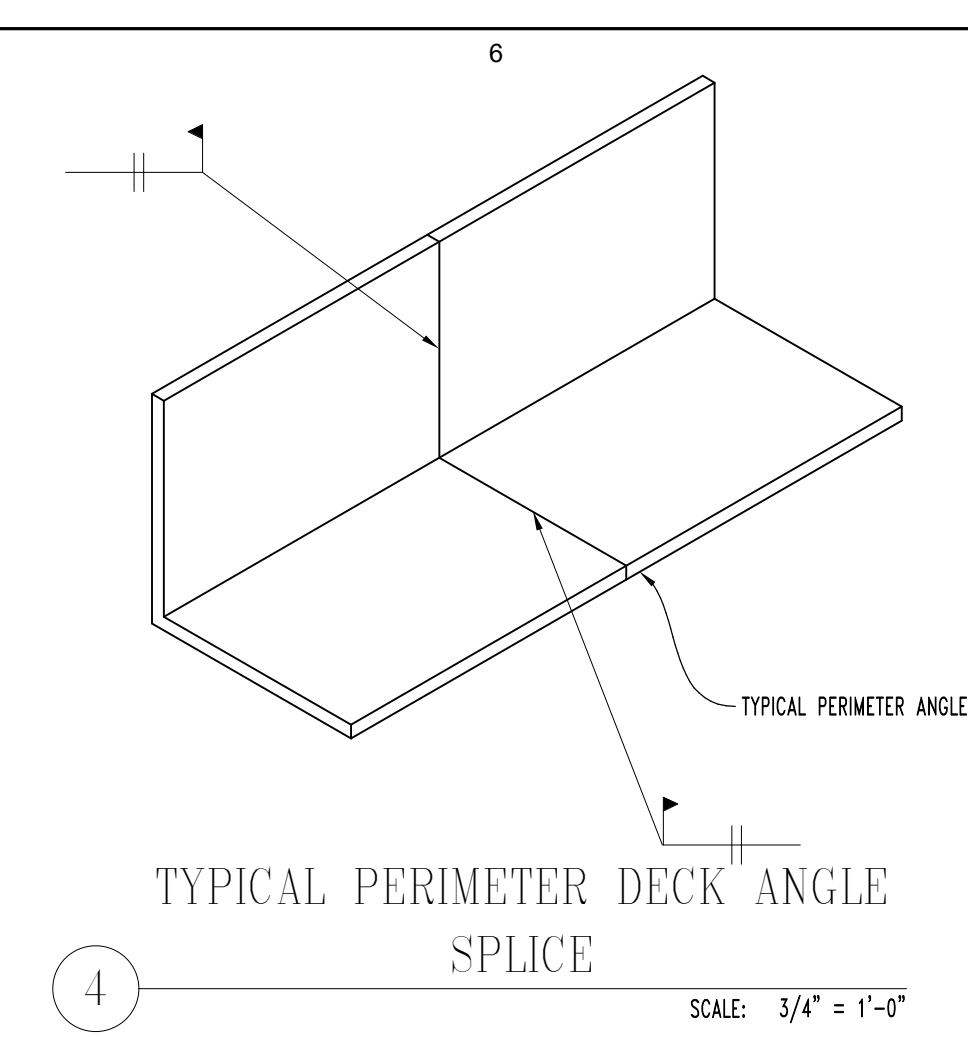
2 TYPICAL SLIDE CLIP

SCALE: N.T.S.



3 TYPICAL STUD TO TRACK DETAIL

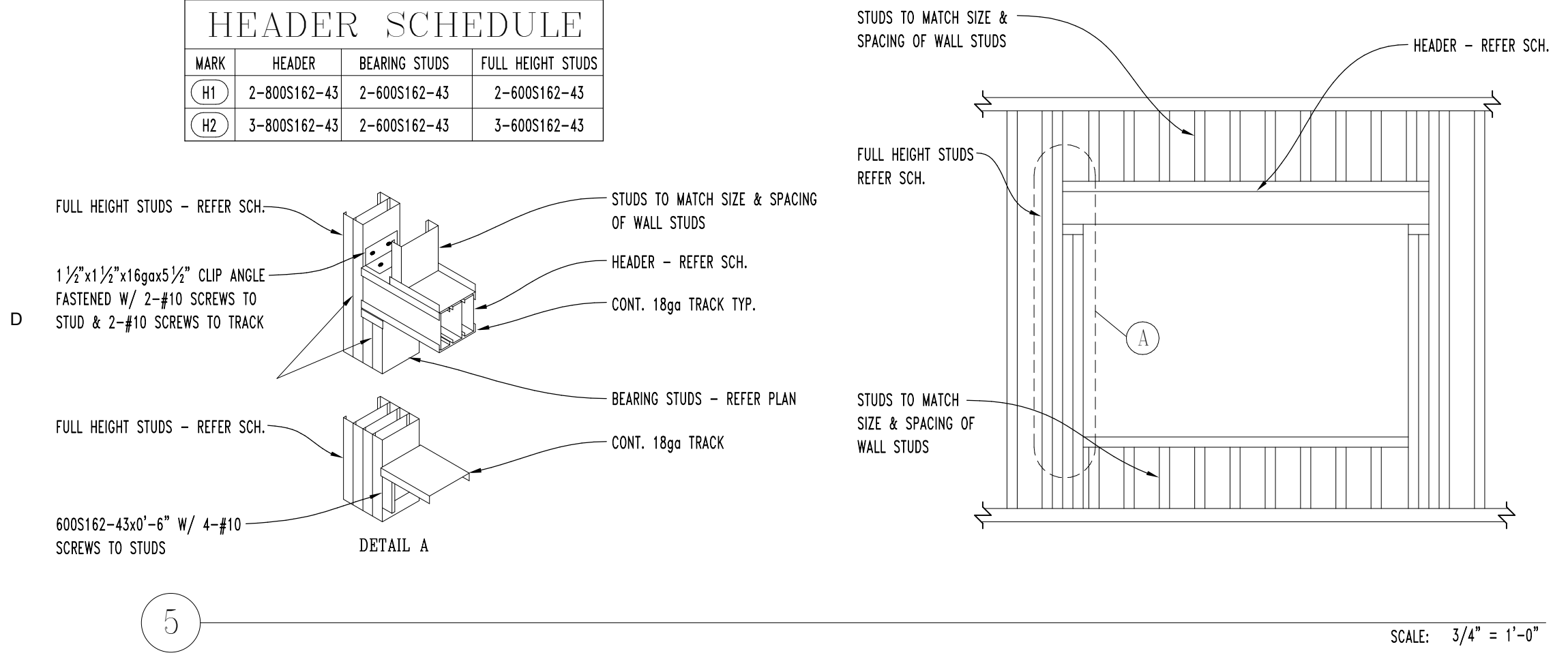
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4 TYPICAL PERIMETER DECK ANGLE SPLICE

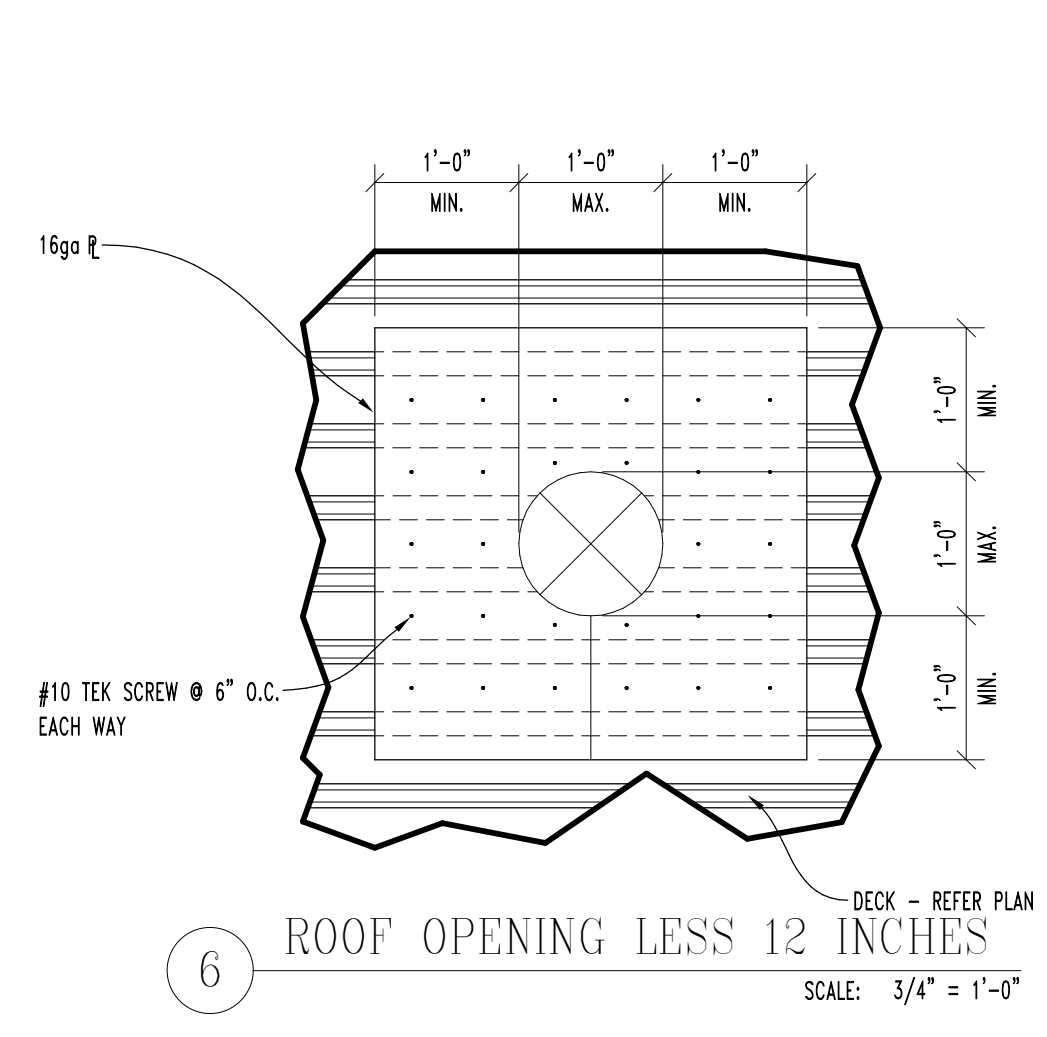
SCALE: 3/4" = 1'-0"

HEADER SCHEDULE			
MARK	HEADER	BEARING STUDS	FULL HEIGHT STUDS
(H1)	2-800S162-43	2-600S162-43	2-600S162-43
(H2)	3-800S162-43	2-600S162-43	3-600S162-43



5

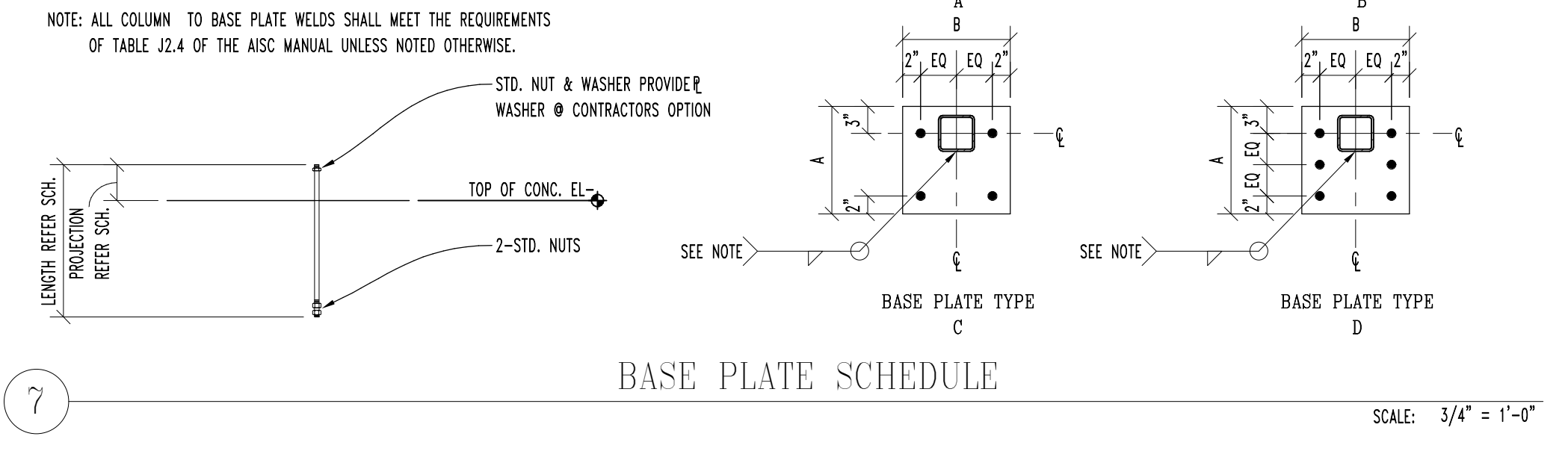
SCALE: 3/4" = 1'-0"



6 ROOF OPENING LESS 12 INCHES

SCALE: 3/4" = 1'-0"

BASE PLATE SCHEDULE				
MARK	BASE PLATE TYPE	BASE PLATE SIZE Thickness "A" x "B"	ANCHOR BOLTS	BOLT PROJECTION
(B)	A	3/2" x 12" x 12"	4-3/2" @ x 12"	4"
(B)	B	1 1/2" x 16" x 16"	4-1 1/2" @ x 12"	6"
(B)	A	1" x 16" x 16"	4-3/2" @ x 12"	5"
(B)	C	1 1/2" x 16" x 16"	4-1 1/2" @ x 12"	6"
(B)	D	1 1/2" x 18" x 24"	6-3/2" @ x 12"	4"

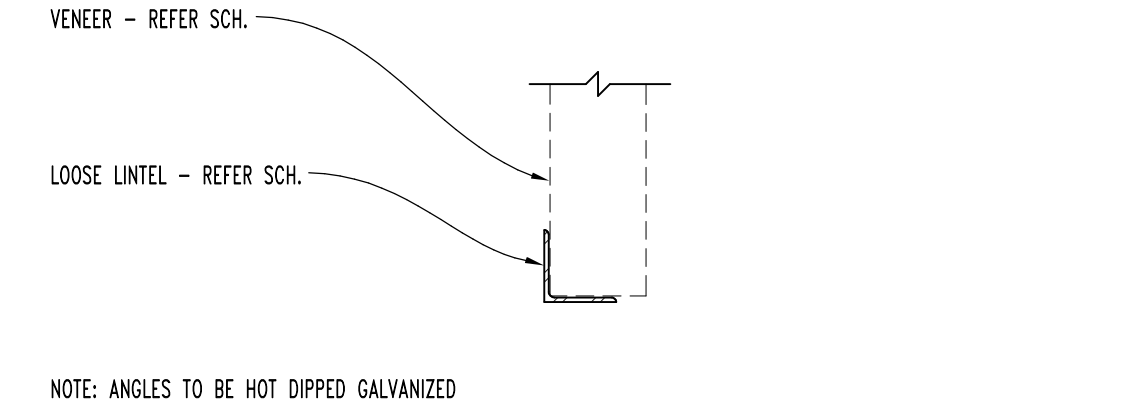


7

BASE PLATE SCHEDULE

SCALE: 3/4" = 1'-0"

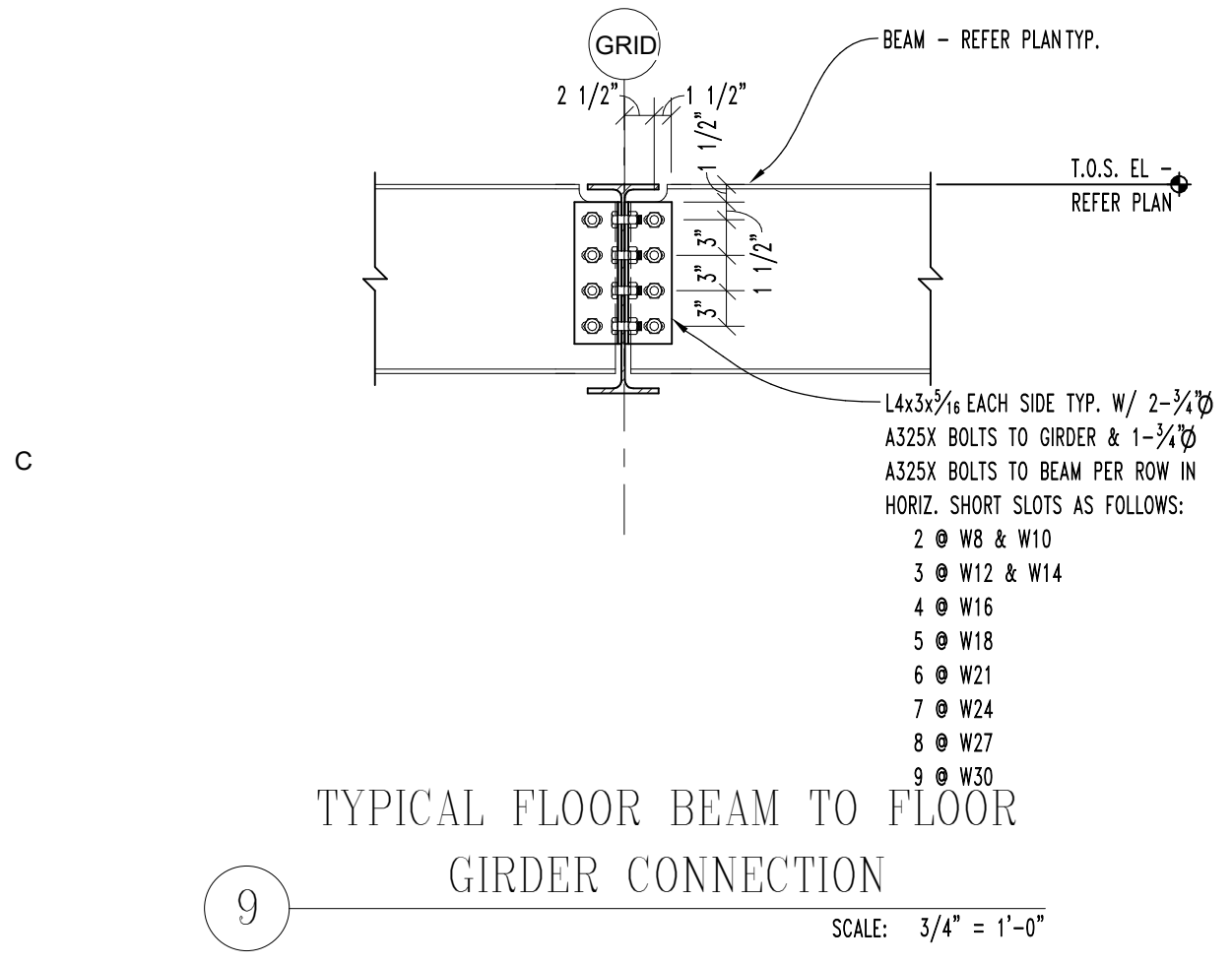
LOOSE LINTEL SCHEDULE			
SPAN	ANGLE SIZE	MIN. BEARING LENGTH	
0'-0" - 4'-0"	L3x3x3/4	4"	
4'-0" - 5'-8"	L4x3x3/4 LLV	4"	
5'-8" - 8'-0"	L6x4x3/4 LLV	4"	



8

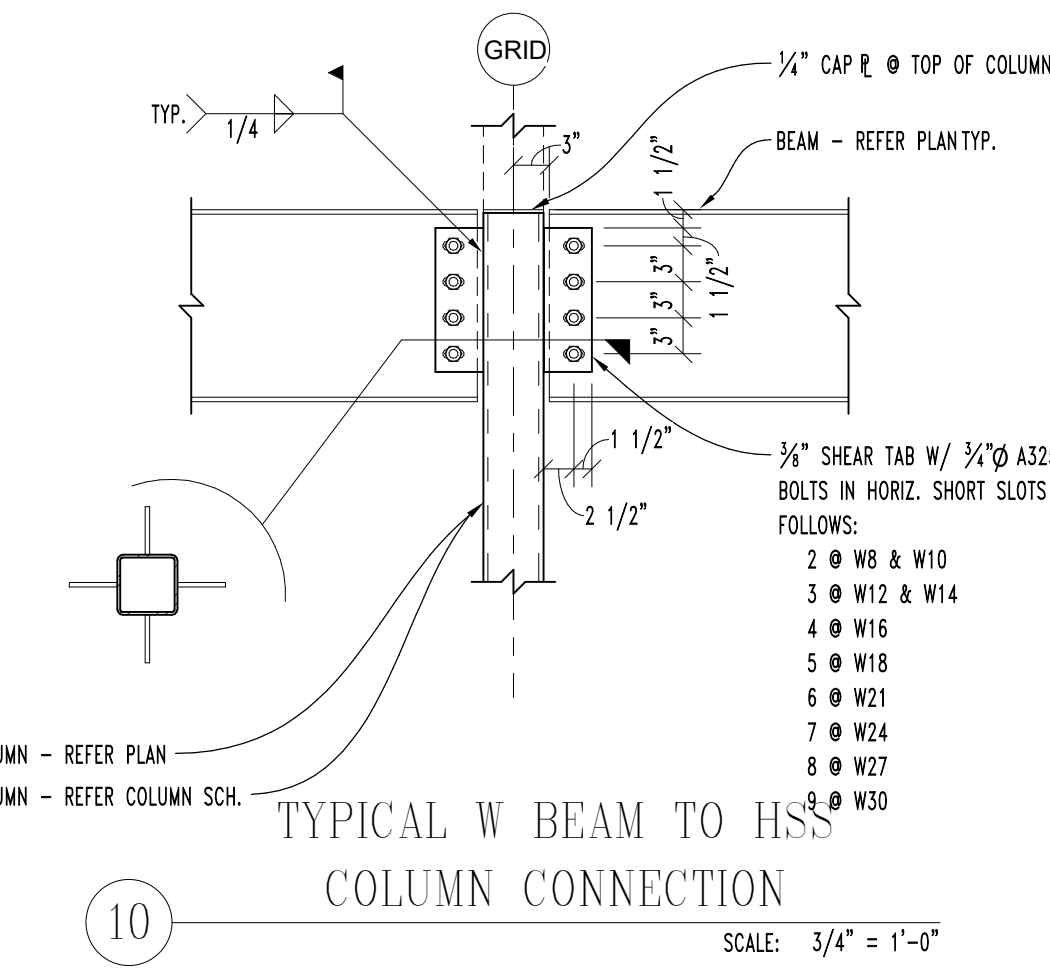
LOOSE LINTEL SCHEDULE

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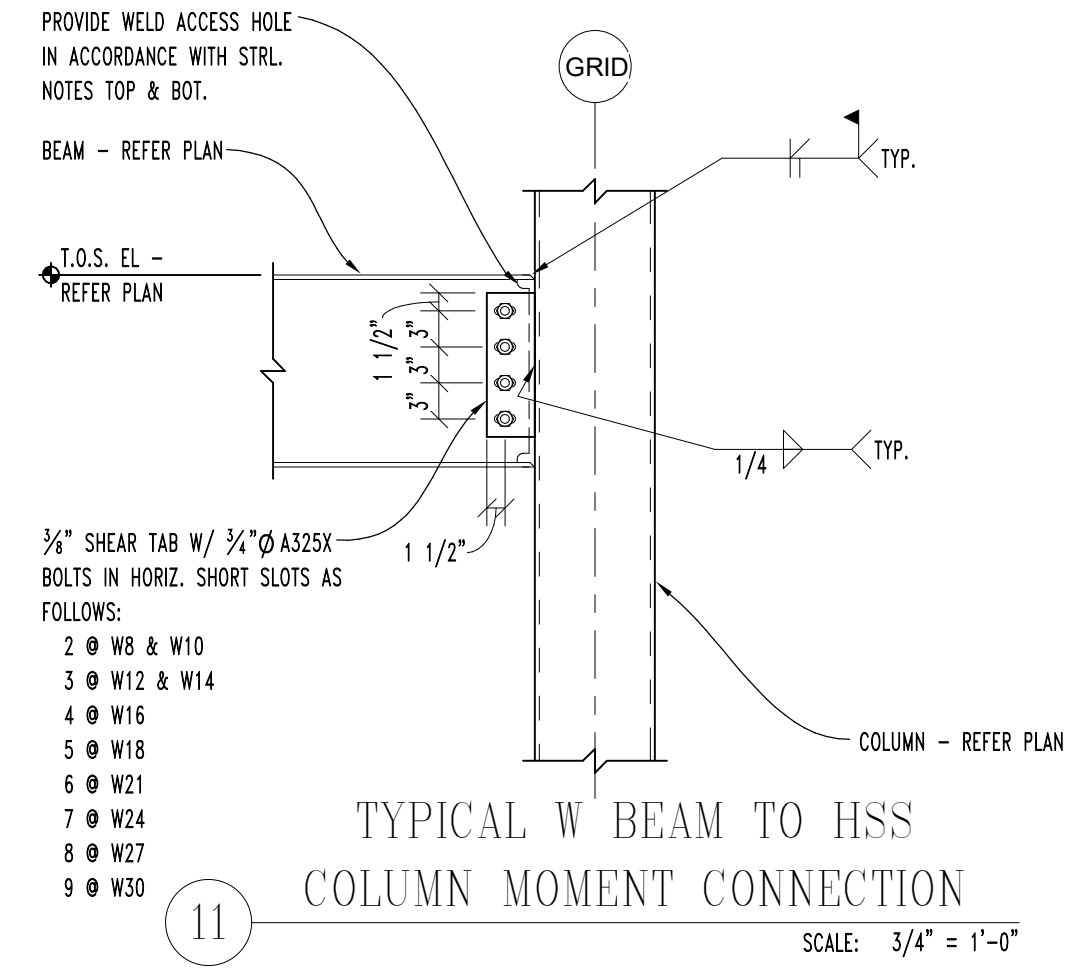
9 TYPICAL FLOOR BEAM TO FLOOR GIRDER CONNECTION

SCALE: 3/4" = 1'-0"



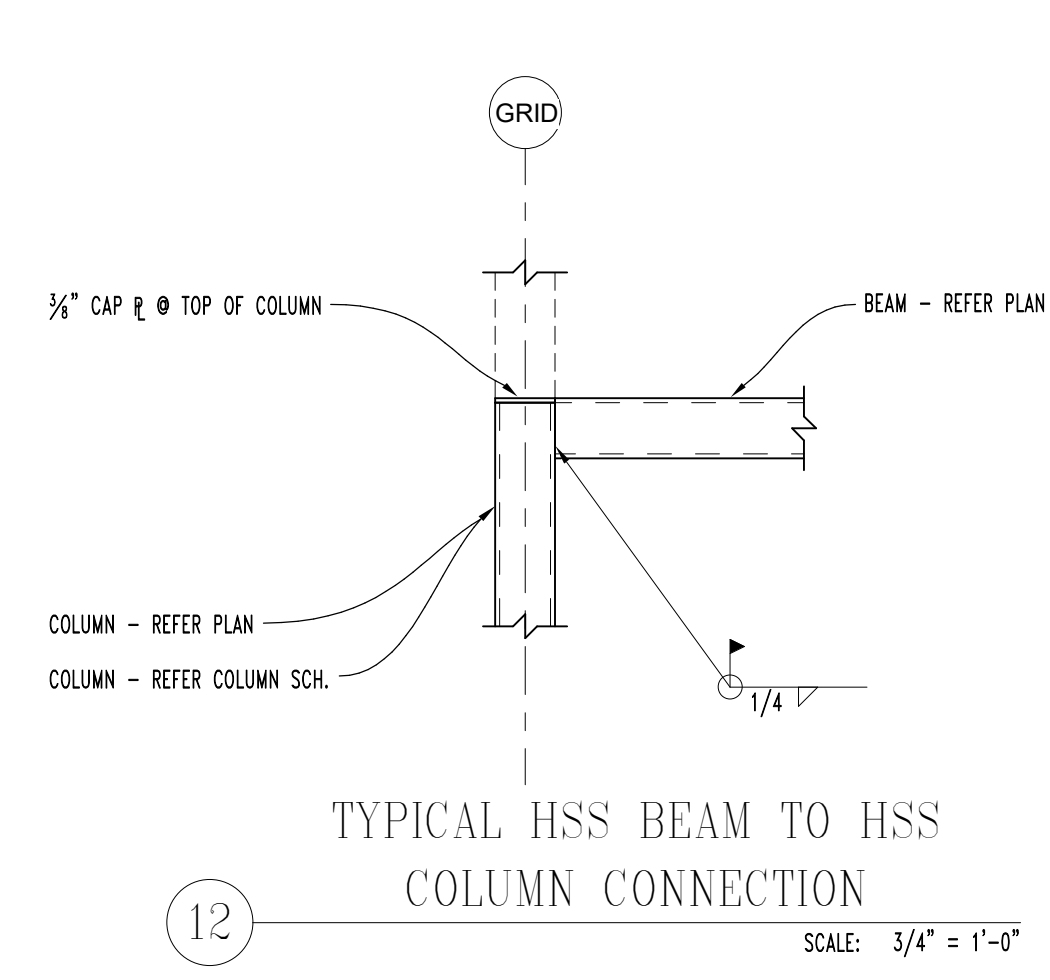
10 TYPICAL W BEAM TO HSS COLUMN CONNECTION

SCALE: 3/4" = 1'-0"



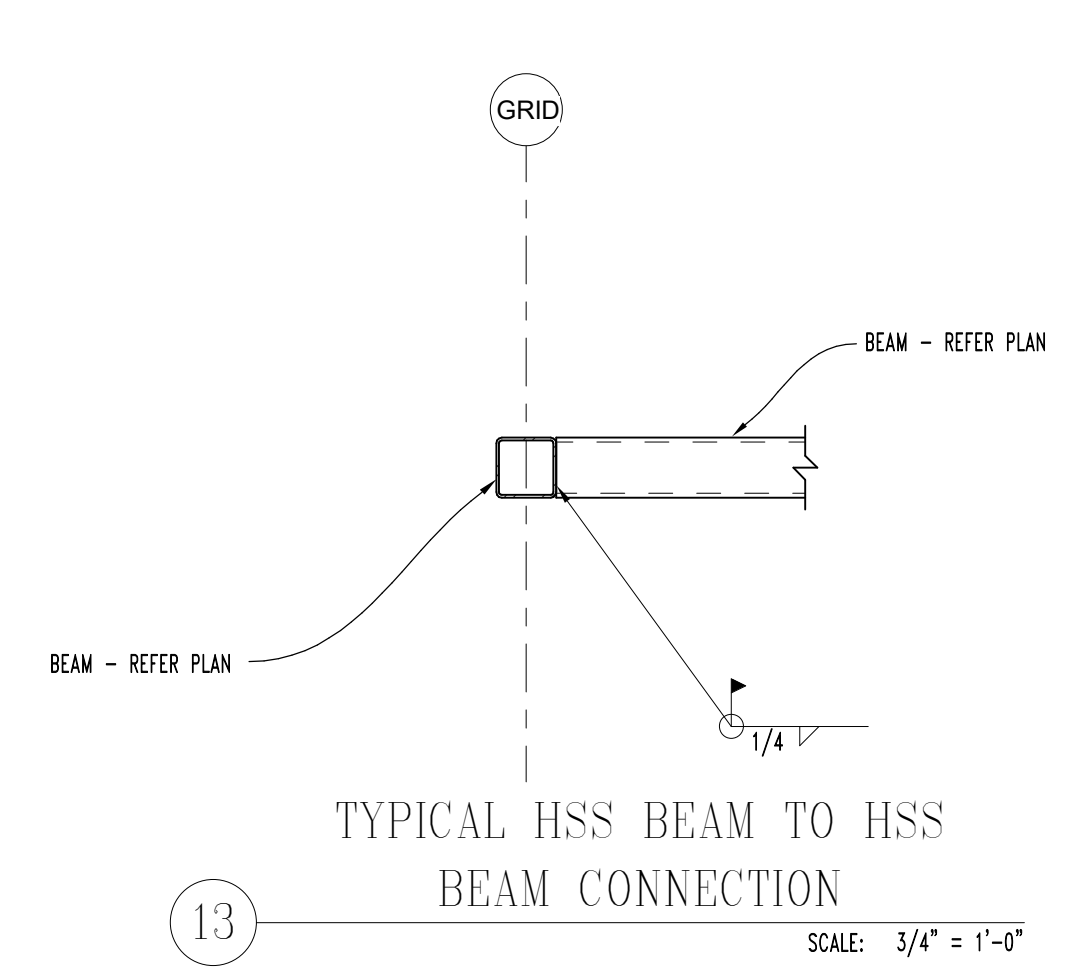
11 TYPICAL W BEAM TO HSS COLUMN MOMENT CONNECTION

SCALE: 3/4" = 1'-0"



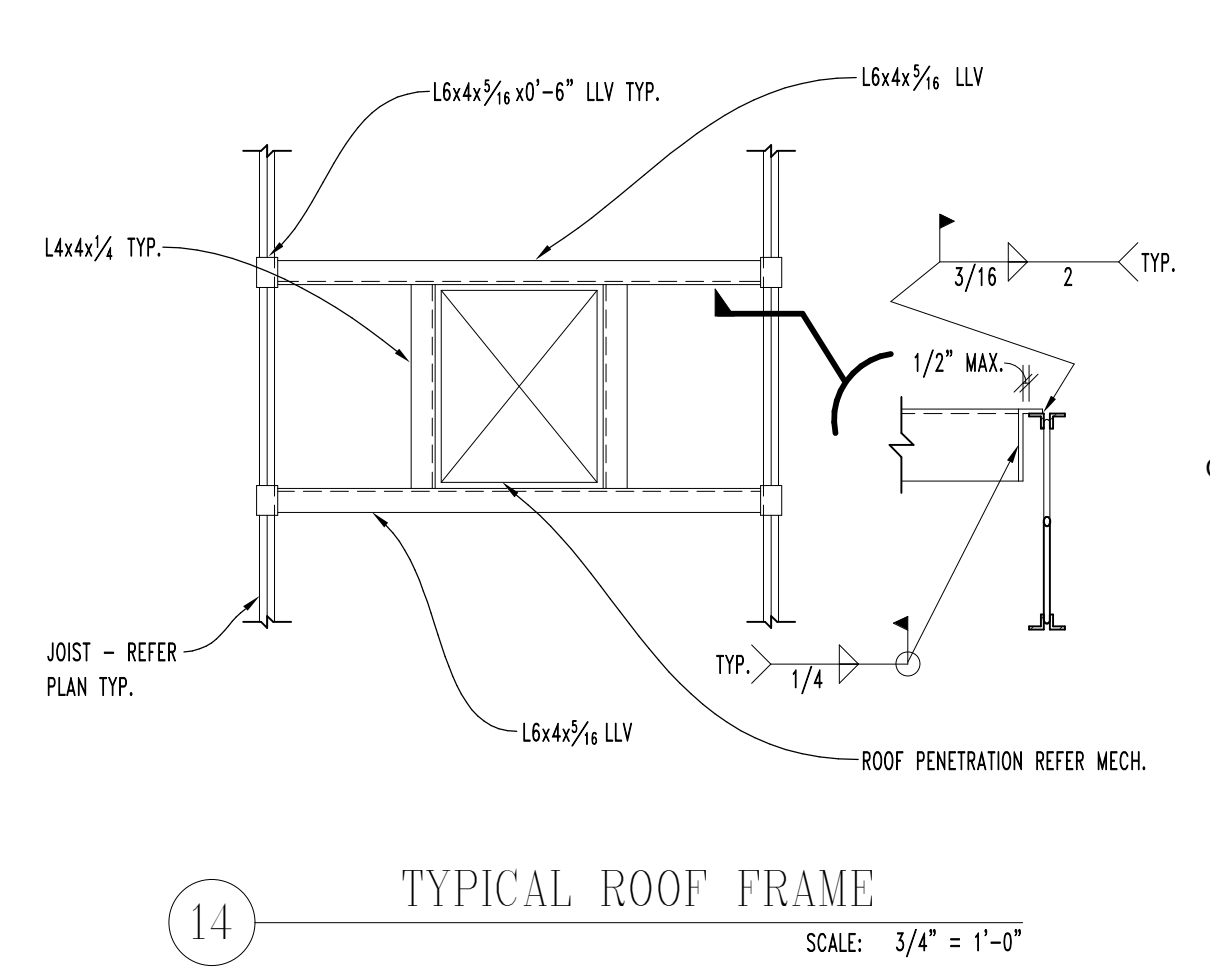
12 TYPICAL HSS BEAM TO HSS COLUMN CONNECTION

SCALE: 3/4" = 1'-0"



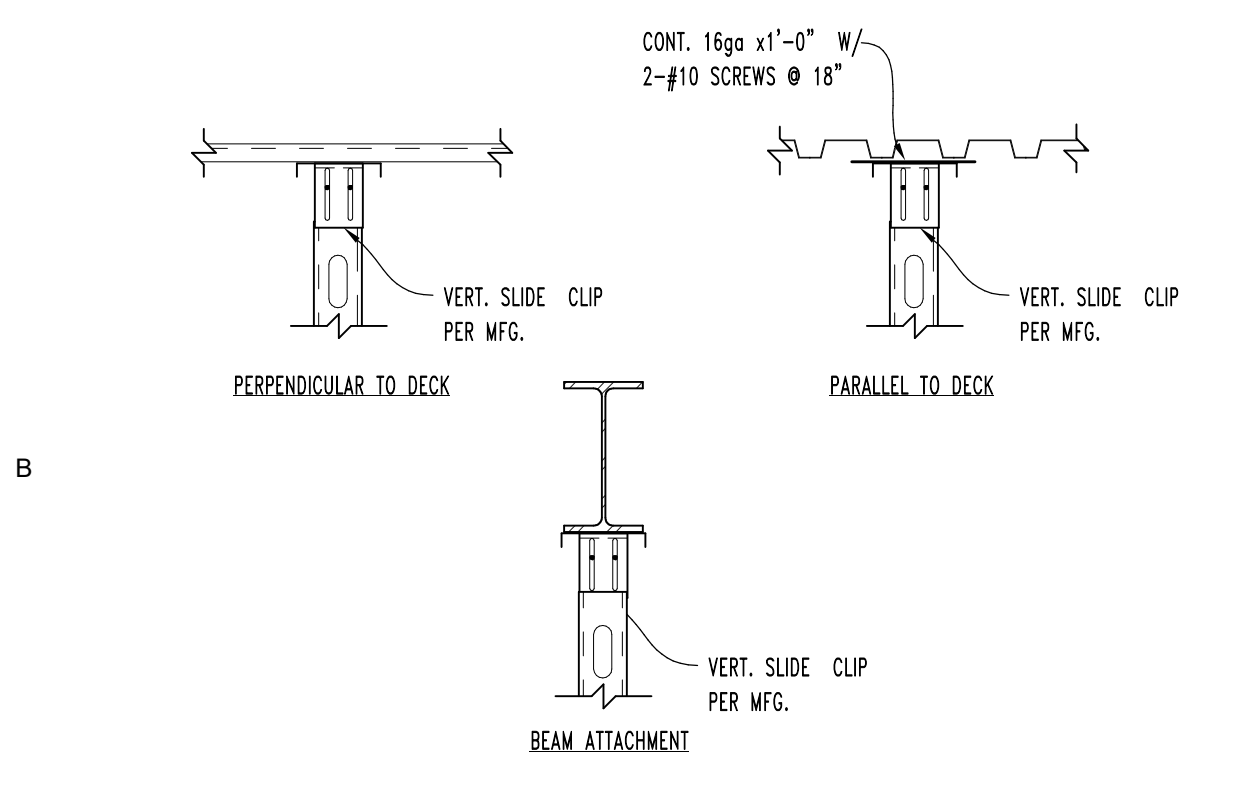
13 TYPICAL HSS BEAM TO HSS BEAM CONNECTION

SCALE: 3/4" = 1'-0"



14 TYPICAL ROOF FRAME

SCALE: 3/4" = 1'-0"



15 TYPICAL SLIP TRACK

SCALE: 3/4" = 1'-0"

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 GEOTHERMAL DR., LAS CRUCES, NM  
 FOR:  
 DOÑA ANA COUNTY  
 845 N MOTEL BLVD., LAS CRUCES, NM 88007

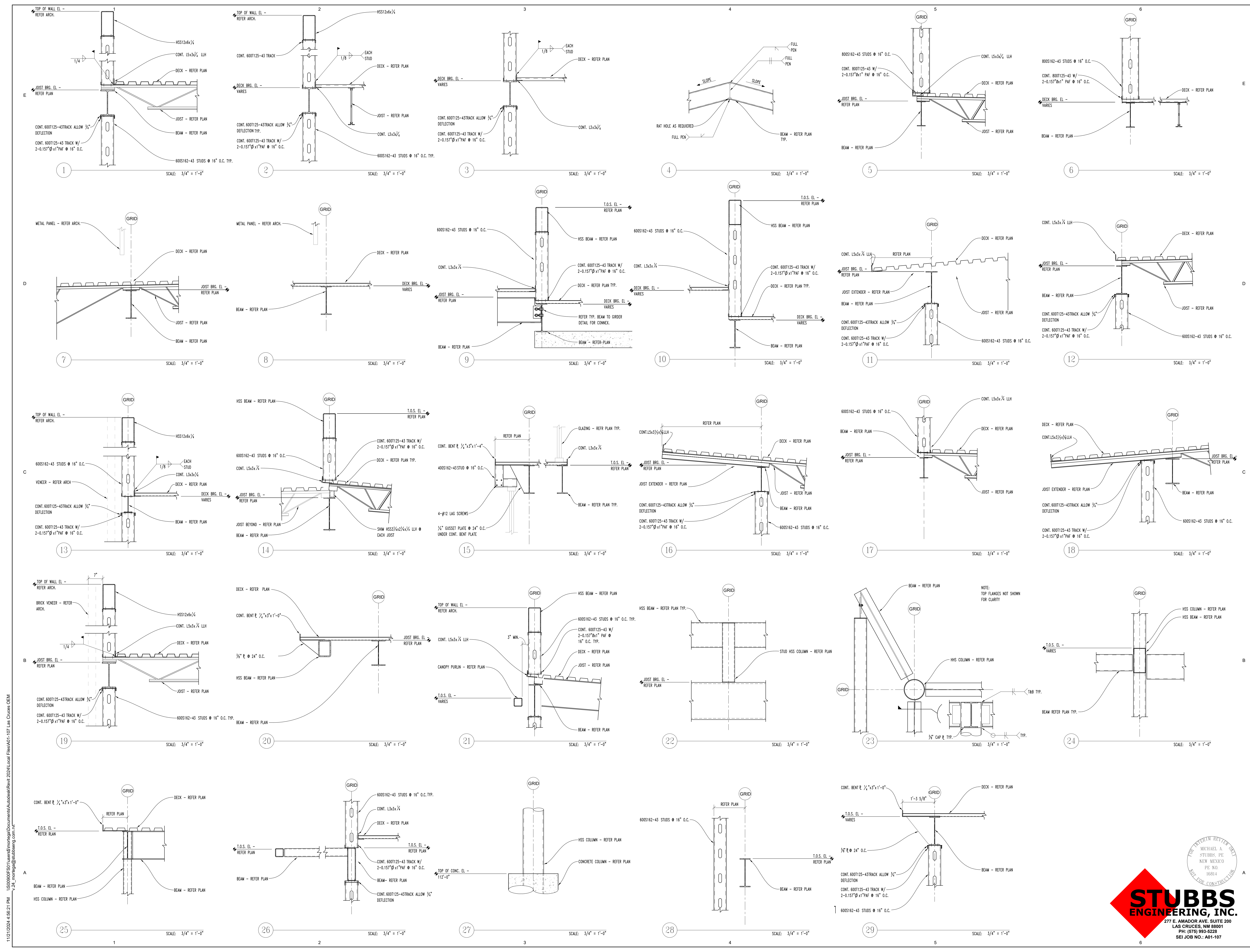
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PROJECT NO.: 22115L  
 FILE NAME: Author  
 DRAWN BY: Checker  
 CHECKED BY: Checker  
 SHEET TITLE: TYPICAL FRAMING DETAILS  
 SHEET NO.: S-600

**STUBBS ENGINEERING, INC.**  
 277 E. AMADOR AVE. SUITE 200  
 LAS CRUCES, NM 88001  
 PH: (575) 993-5228  
 SEI JOB NO.: A01-107

FOR PERMIT REVIEW ONLY  
 MICHAEL A. STUBBS, PE  
 NEW MEXICO  
 PE NO. 16814

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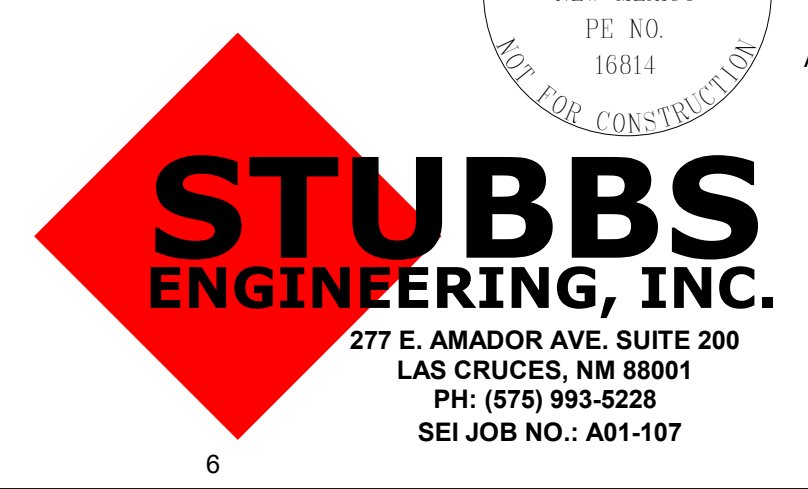


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MARK	DATE	DESCRIPTION

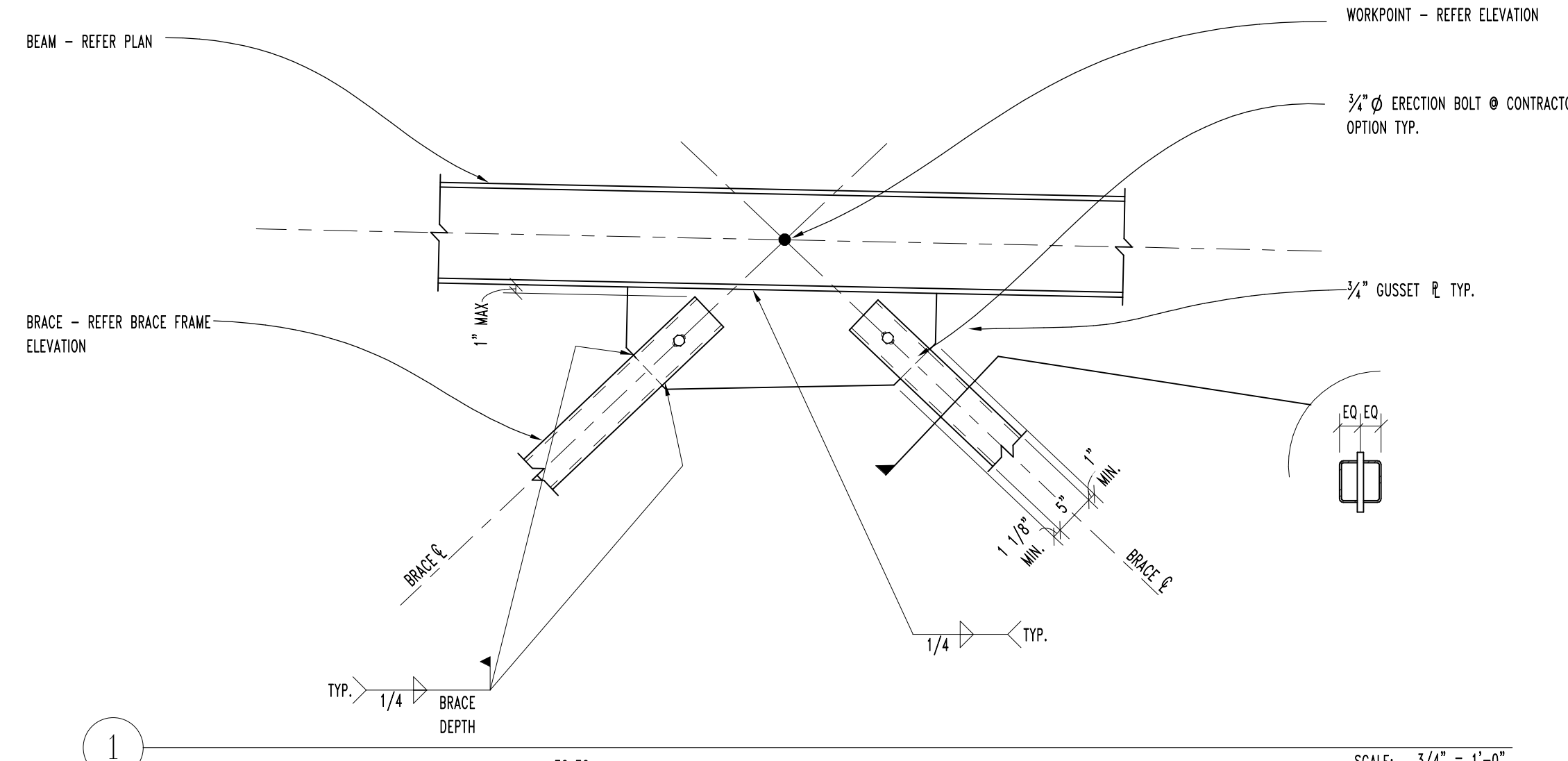
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FILE NAME:	
DRAWN BY:	Author
CHECKED BY:	Checker
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FILE NAME:	
DRAWN BY:	Author
CHECKED BY:	Checker
SHEET TITLE:	



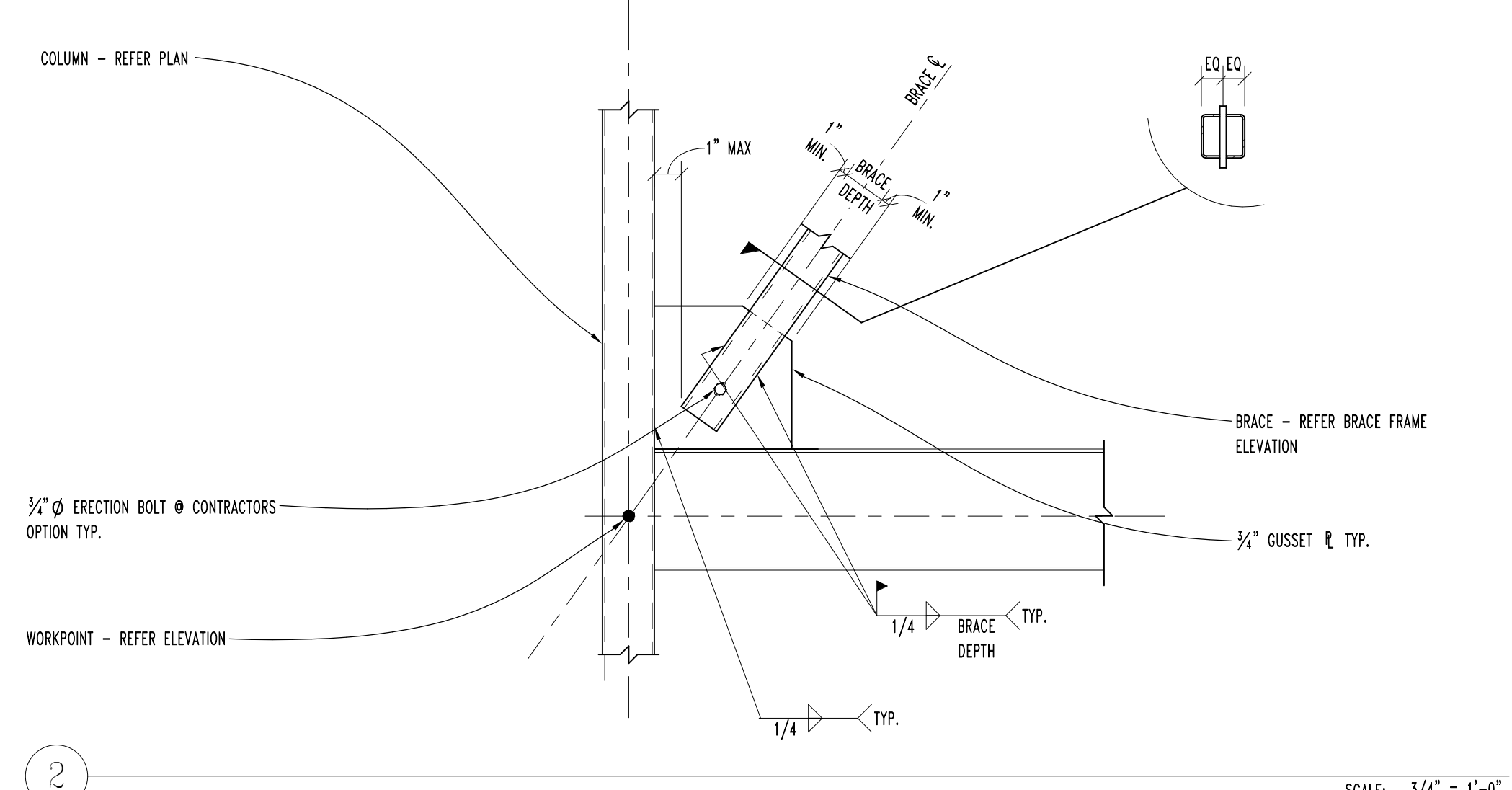
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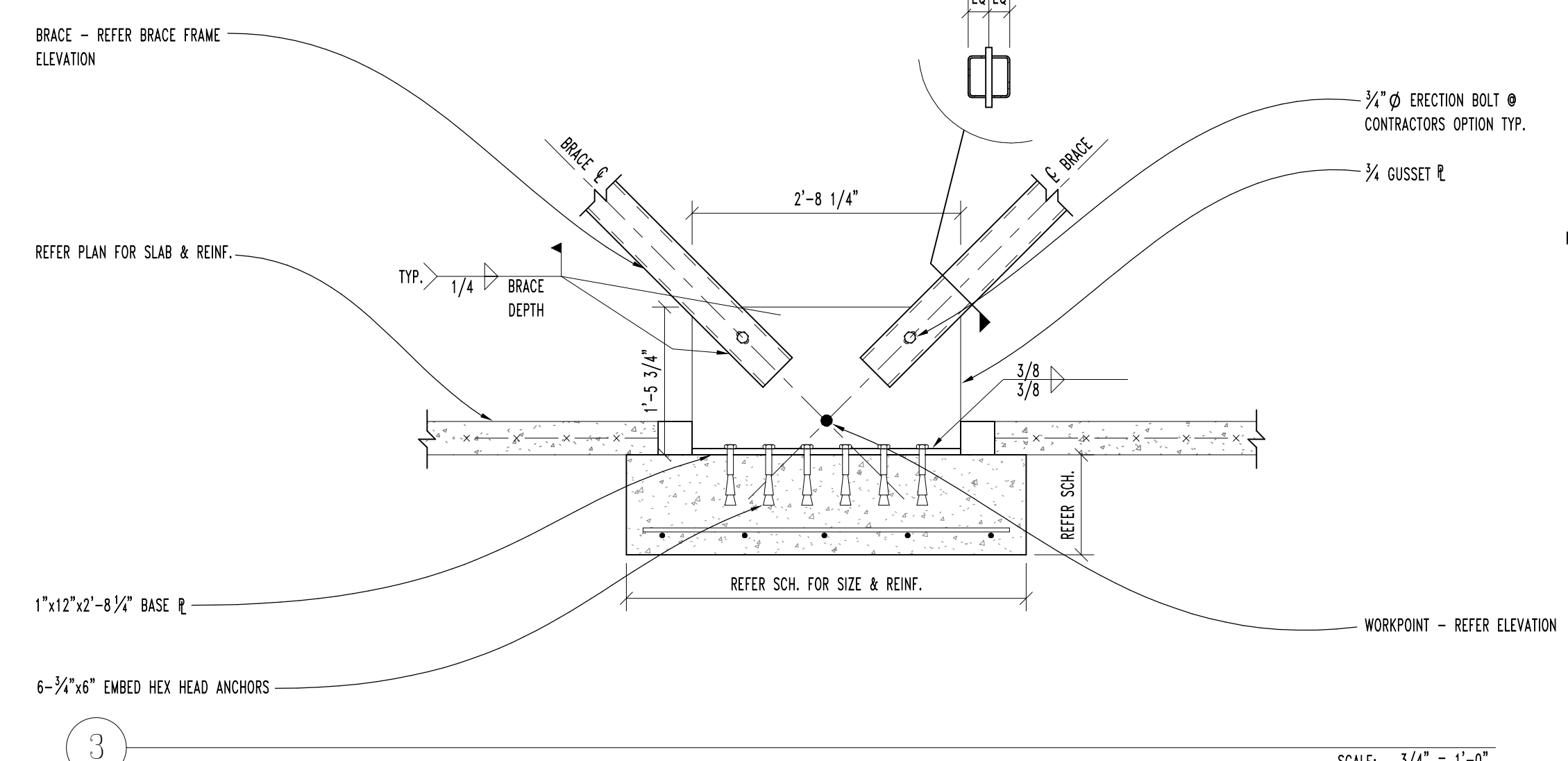
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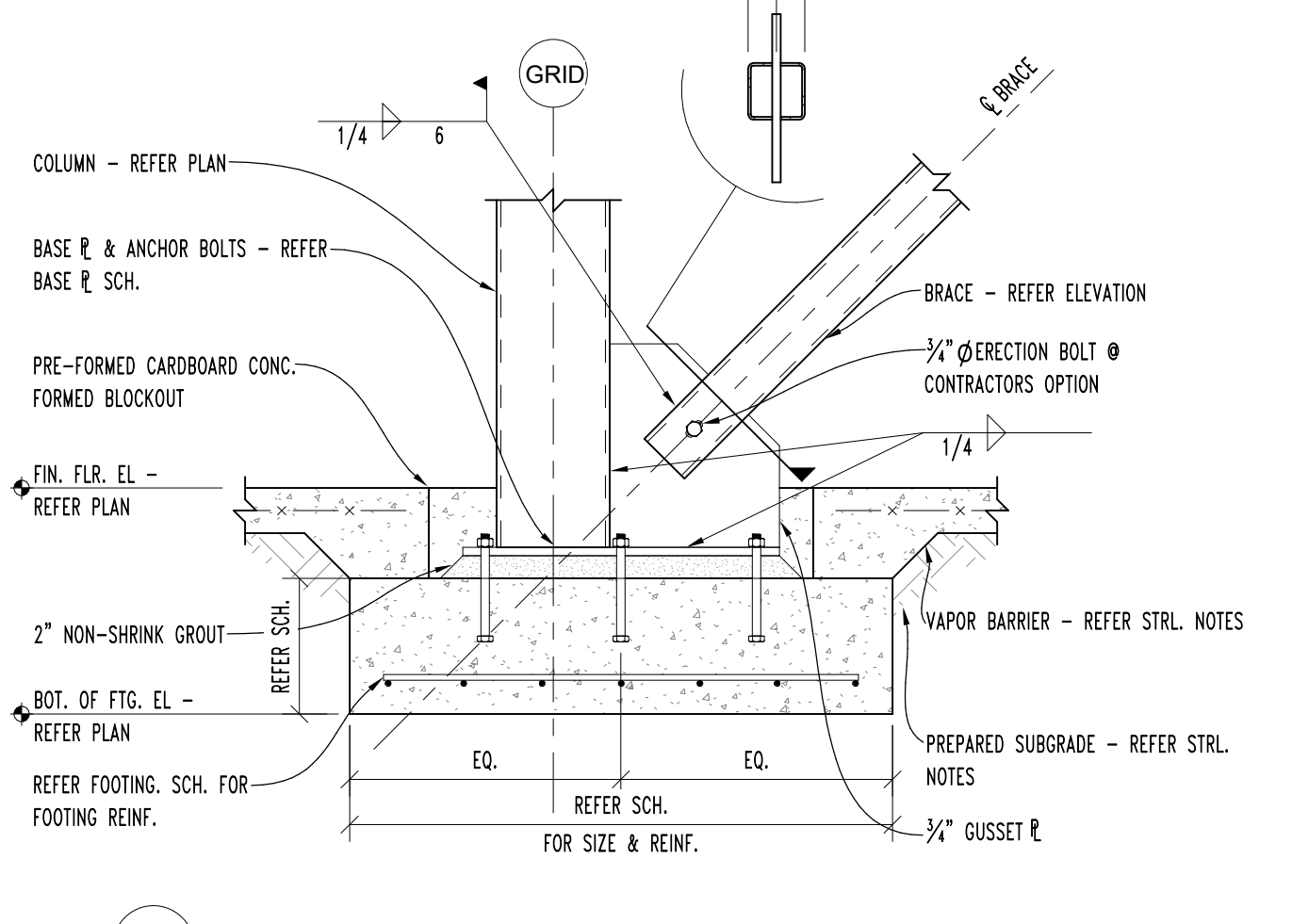
1 SCALE: 3/4" = 1'-0"



2 SCALE: 3/4" = 1'-0"



3 SCALE: 3/4" = 1'-0"



4 SCALE: 3/4" = 1'-0"

**ASA ARCHITECTS**  
 P.O. Box 146  
 Las Cruces, NM 88004  
 P: 575.526.3111  
 F: 575.523.9667  
 www.asa-architects.com

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 GEOTHERMAL DR., LAS CRUCES, NM  
 FOR:  
 DOÑA ANA COUNTY  
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MARK	DATE	DESCRIPTION
1	2024-11-21	ISSUE

PROJECT NO.: 22115L  
 FILE NAME:  
 DRAWN BY: Author  
 CHECKED BY: Checker  
 SHEET TITLE:

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 MICHAEL A. STUBBS, PE  
 NEW MEXICO  
 PE NO. 16814  
 SEE CODE CONSTRUCTION

**STUBBS ENGINEERING, INC.**  
 277 E. AMADOR AVE, SUITE 200  
 LAS CRUCES, NM 88001  
 PH: (575) 993-5228  
 SEI JOB NO.: A01-107

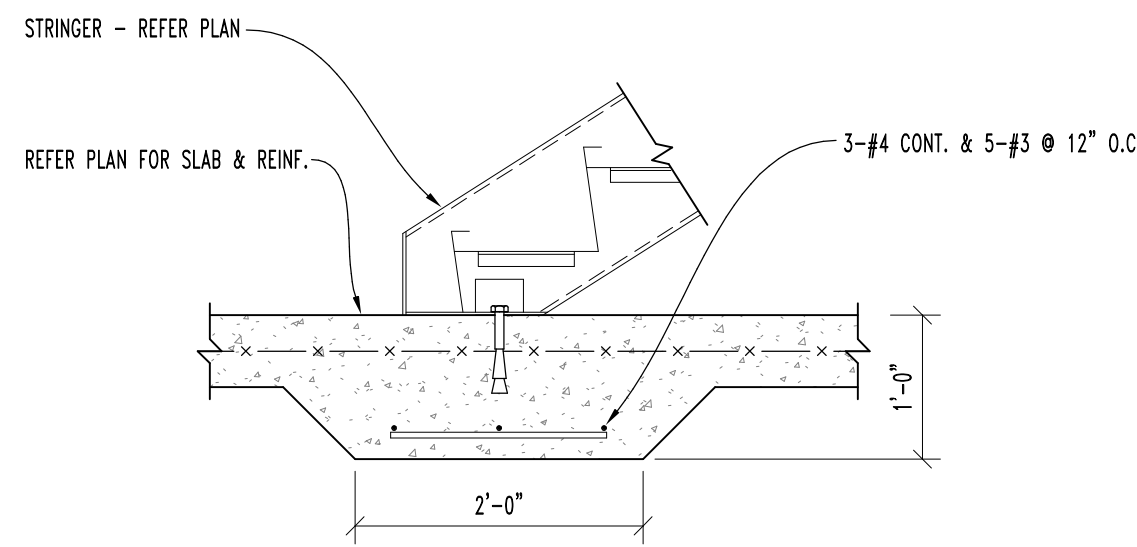
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 SHEET NO.: S-800

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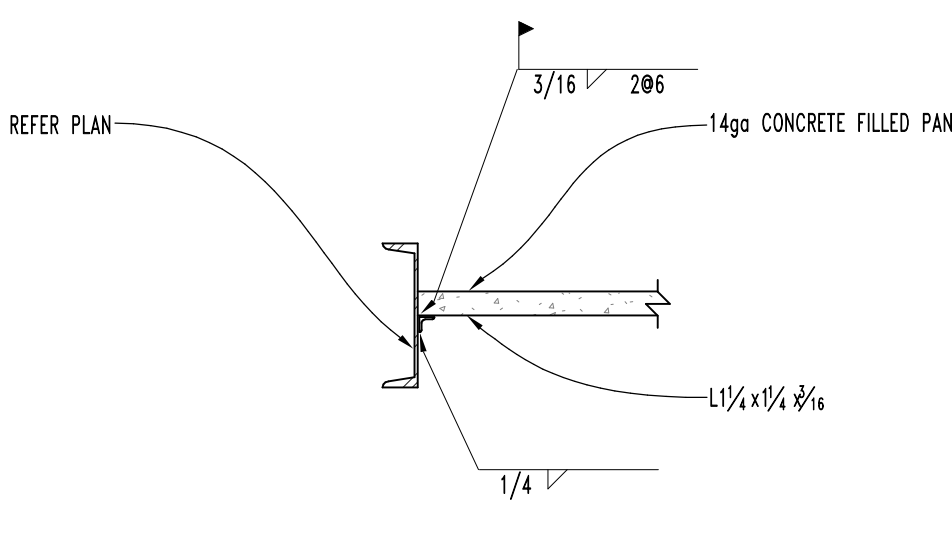
**A STAIR FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"

**B STAIR FRAMING PLAN**  
SCALE: 1/4" = 1'-0"

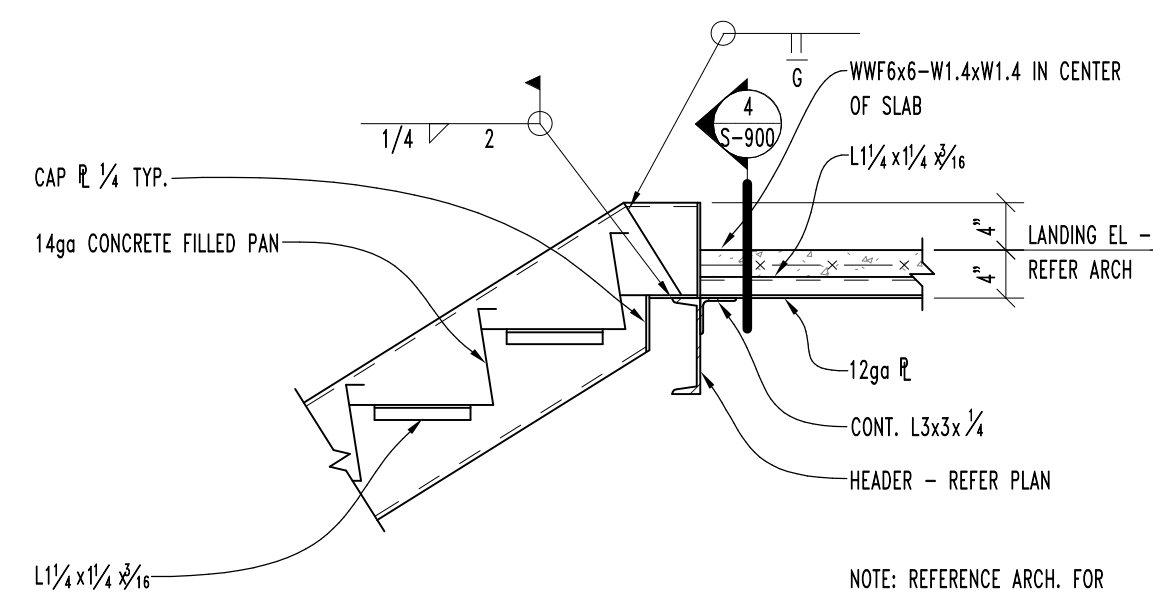
**C STAIR FRAMING PLAN**  
SCALE: 1/4" = 1'-0"



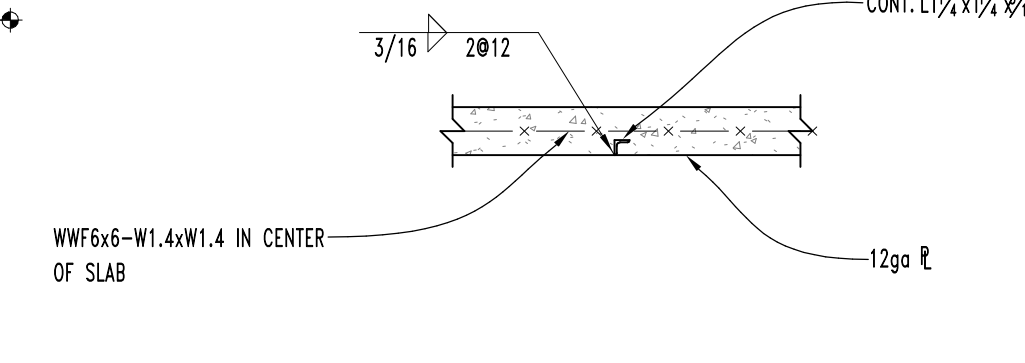
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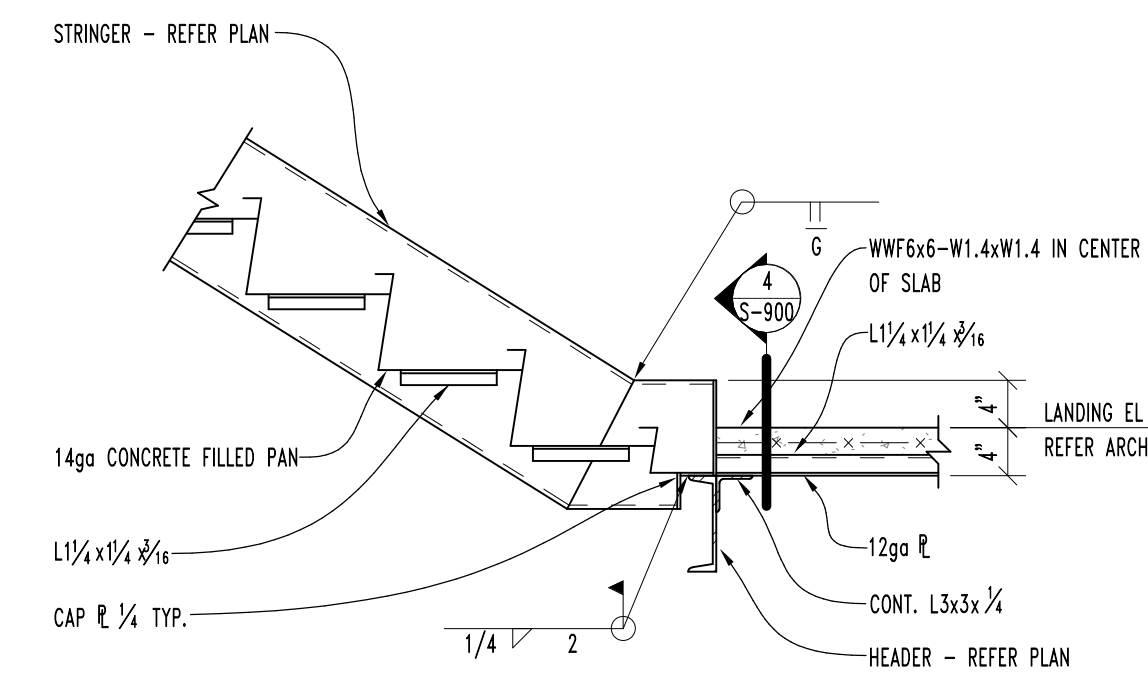
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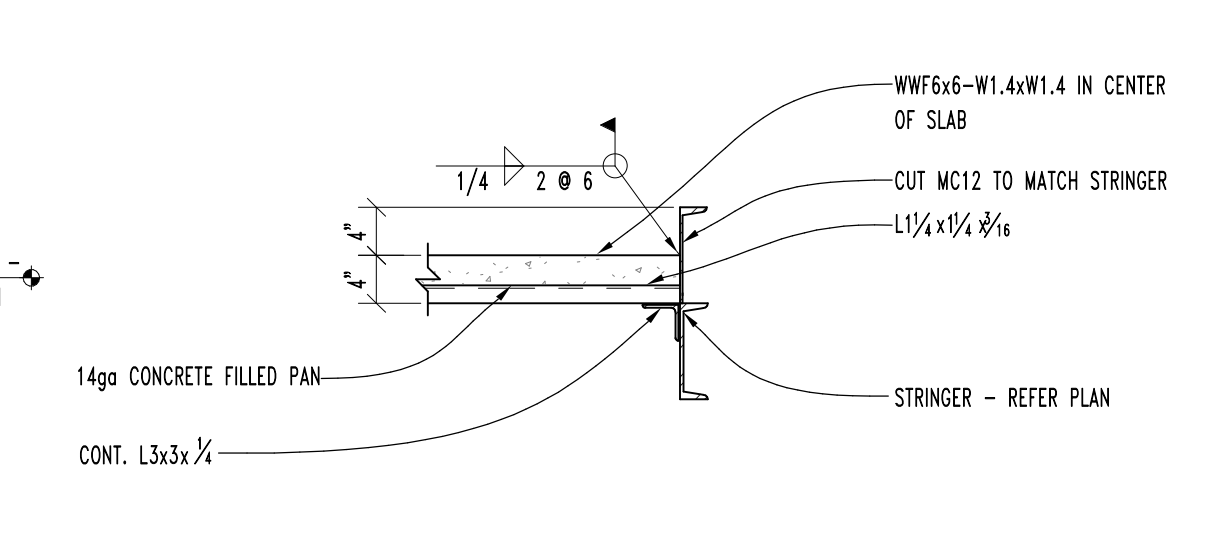
3 SCALE: 3/4" = 1'-0"



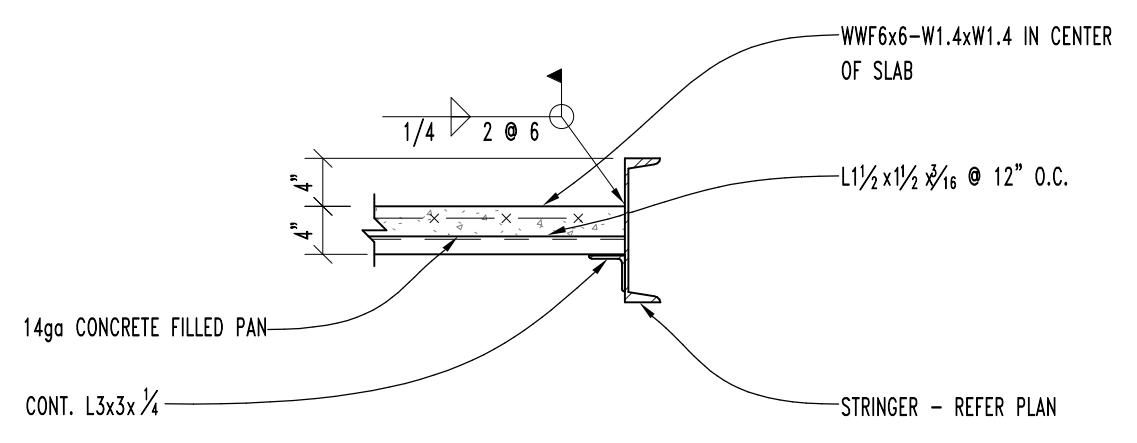
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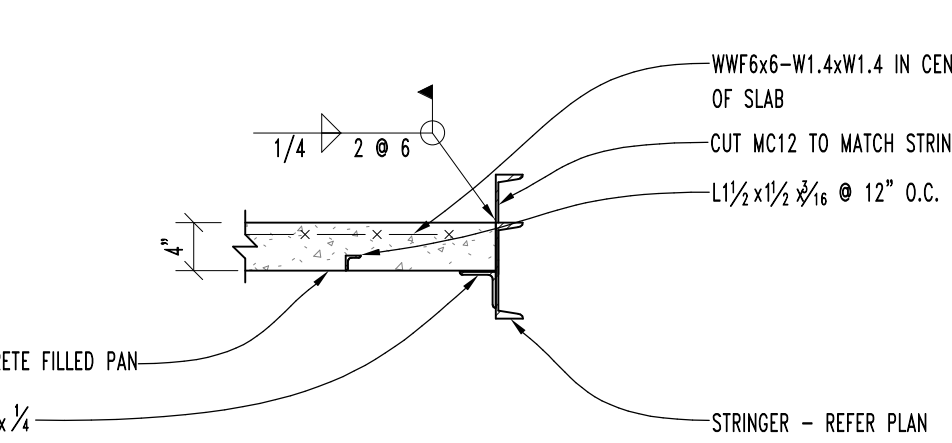
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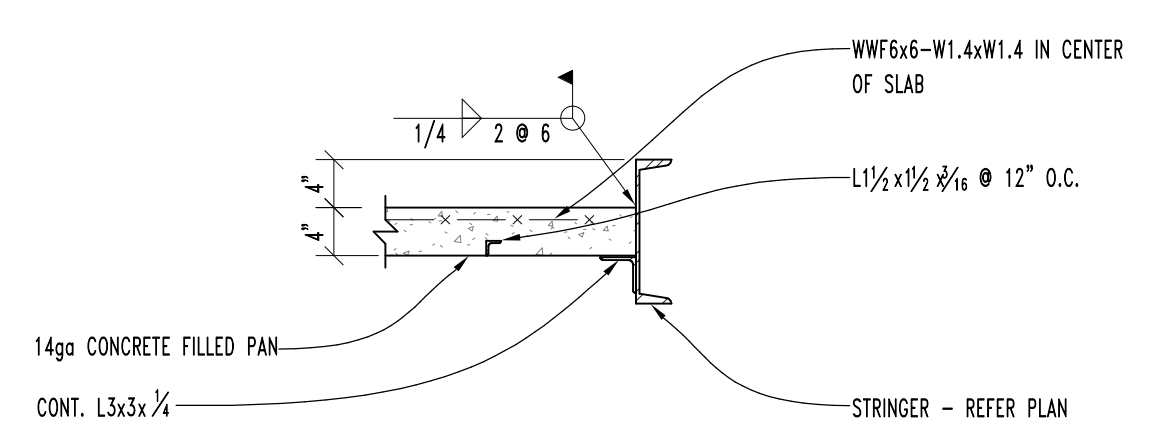
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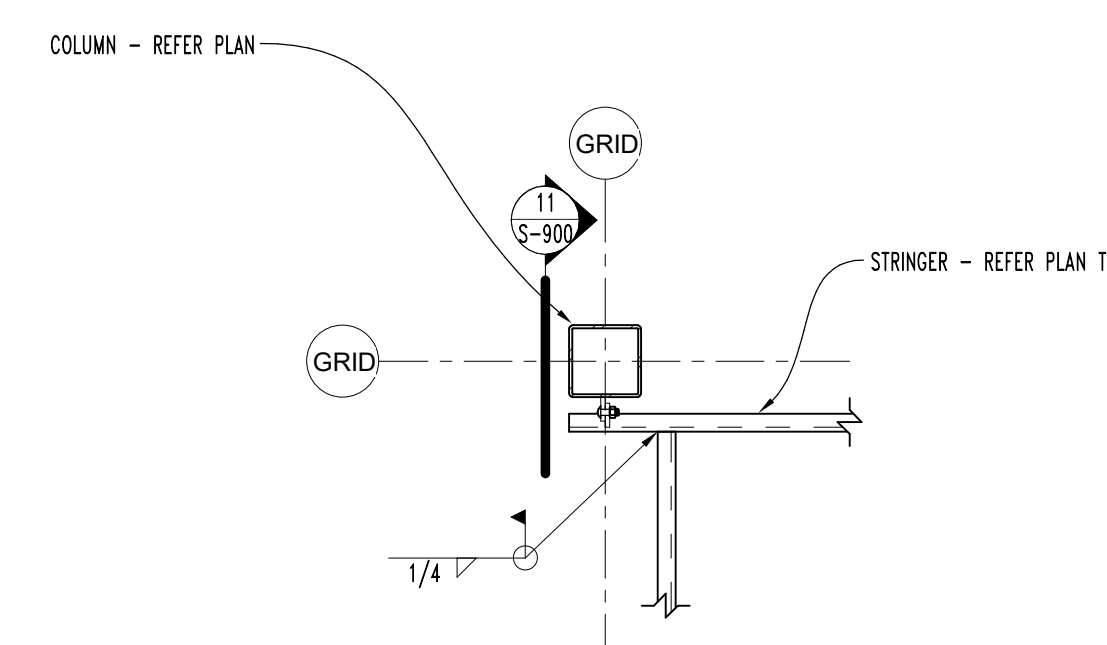
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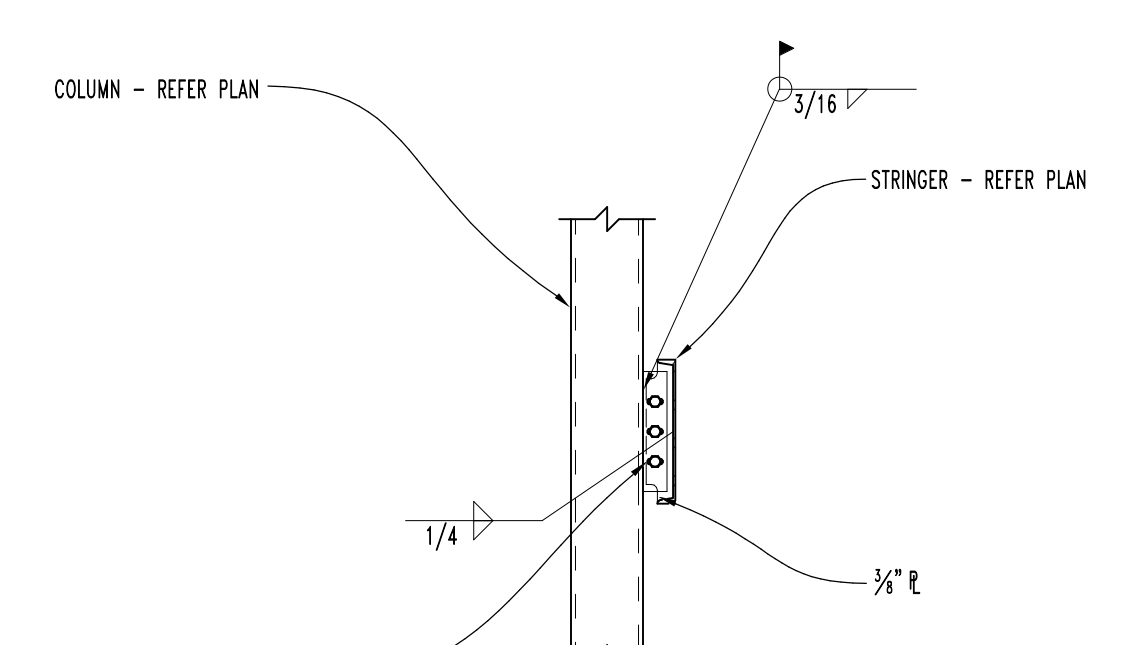
8 SCALE: 3/4" = 1'-0"



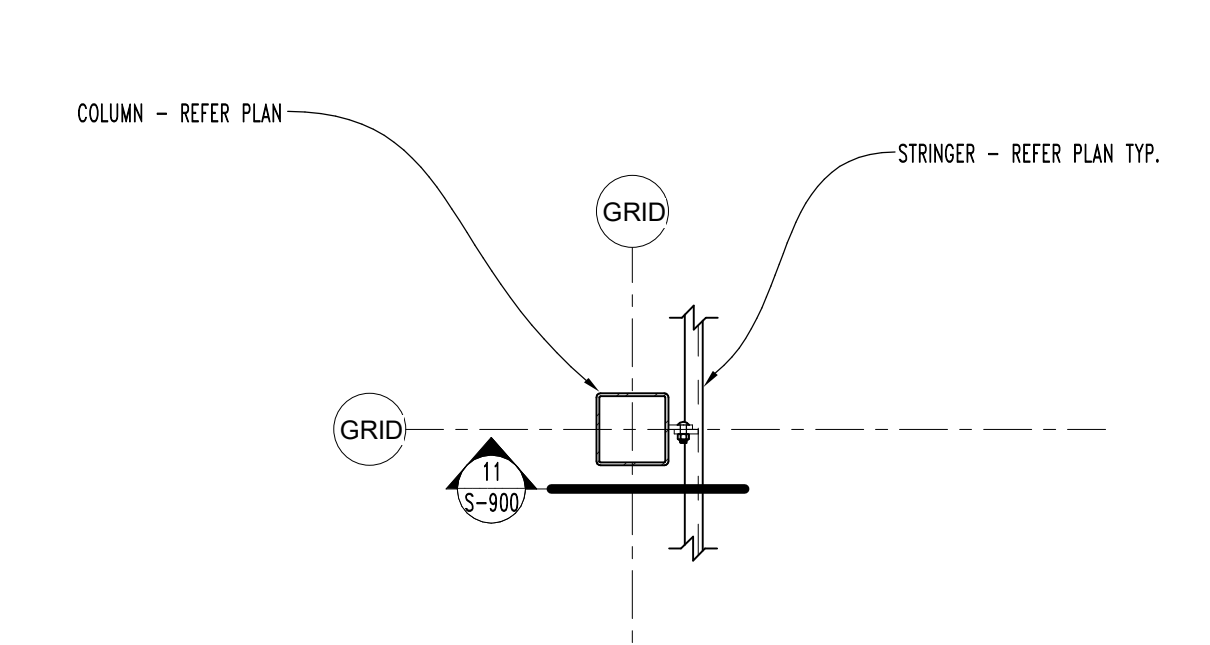
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10 SCALE: 3/4" = 1'-0"



11 SCALE: 3/4" = 1'-0"



12 SCALE: 3/4" = 1'-0"

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OEM EMERGENCY OPERATIONS CENTER  
GEOTHERMAL DR., LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION
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PROJECT NO.: 22115L  
FILE NAME:  
DRAWN BY: Author  
CHECKED BY: Checker  
SHEET TITLE:

FOR THE ARCHITECT (REVISED ONLY)  
MICHAEL A. STUBBS, P.E.  
NEW MEXICO  
PE NO. 16814  
LIFE CODE: CONSTRUCTION

**STUBBS ENGINEERING, INC.**  
277 E. AMADOR AVE., SUITE 200  
LAS CRUCES, NM 88001  
PH: (575) 993-5228  
SEI JOB NO.: A01-107

STAIR PLANS & DETAILS

SHEET NO.: S-900

# MECHANICAL SYMBOLS AND ABBREVIATIONS

[SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT]

## GENERAL DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
	ROUND DUCT SECTION
	12" DIA. ROUND DUCT
	SUPPLY SECTION, POSITIVE PRESS.
	EXH., RET., O.A., DUCT SECTION NEGATIVE PRES.
	DUCTWORK, FIRST NO. IS VISIBLE DIM.
	FLEXIBLE CONNECTION (DUCT)
	FLEXIBLE DUCT
	BRANCH DUCT WITH VOLUME DAMPER
	SIDEWALL REGISTER
	VANED ELBOW (PROVIDE ALL SQUARE ELBOWS W/VANES EVEN IF SYMBOL IS MISSING)
	DAMPER, TYPE INDICATED (O8D, PBD, FD, BD)
	WALL LOUVER
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST GRILLE
	LINEAR SUPPLY AIR DEVICE
	LINEAR AIR RETURN DEVICE

## HEATING PIPING SYMBOLS

SYMBOL	DESCRIPTION
	HOT WATER RETURN
	HOT WATER SUPPLY
	PUMPED CONDENSATE DRAIN
	BOILER FEED WATER
	THERMOSTATIC PUMP
	FLOAT & THERMOSTATIC TRAP

## AIR CONDITIONING

SYMBOL	DESCRIPTION
	CHILLED/HEATING WATER RETURN
	CHILLED/HEATING WATER SUPPLY
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	REFRIGERANT DISCHARGE
	MAKE-UP WATER
	CONDENSATE DRAIN
	PUMPED CONDENSATE DRAIN

## CONTROLS

SYMBOL	DESCRIPTION
	THERMOSTAT SERVING ZONE X
	TEMPERATURE SENSOR SERVING ZONE X
	MISC. CONTROL SERVING ZONE X REFER TO KEYED NOTES FOR MORE INFORMATION

## DRAWING SYMBOLS

SYMBOL	DESCRIPTION
	EQUIPMENT MARK NUMBER - 5-TON, CU-1
	KEYED NOTE 2
	TYPE 'A' AIR DEVICE, 150 CFM W/ 6/2 NECK. WHEN NOT INDICATED ON DRAWING REFER TO SCHEDULE

## ABBREV. DESCRIPTION

ABV	ABOVE
AC	ABOVE CEILING
A/C	AIR CONDITIONED
ACCH	AIR COOLED CHILLER
AD	ACCESS DOOR
AF	AIR FOIL
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MEASURING STATION
AHU	AIR HANDLING UNIT
AMCA	AIR MOVING AND CONDITIONING ASSOCIATION INC.
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ARI	AIR CONDITIONING REFRIGERATION INSTITUTE
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
AS	AIR SEPARATOR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERING
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AV	AUTOMATIC AIR VENT ASSEMBLY

B	BOILER
BD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BI	BACKWARD INCLINED
BLOG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BSMT	BASMENT
BTU	BRITISH THERMAL UNIT

CDP	CONDENSATE DRAIN PUMP
CFM	CUBIC FEET PER MINUTE
CHP	CHILLED WATER PUMP
CLG	CEILING
CMP	CONDENSER WATER PUMP
CO	CLEANOUT
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
CP	CONTROLLABLE PITCH
CT	COOLING TOWER
CU	COLD WATER
CW	CENTER LINE
¢	CENTER LINE

D	DRAIN
DB	DRY BULB
DCP	DATA COLLECTION PANEL
DG	DOOR GRILLE
DIFF	DIFFUSER
DN	DOWN
DWG	DRAWING
DX	DIRECT EXPANSION

EA	EACH
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EG	EXHAUST GRILLE
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATION
ENT	ENTERING
EQUIP	EQUIPMENT
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION/COMPRESSION TANK
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING

F	DEGREES FAHRENHEIT
FC	FAN COIL
FD	FIRE DAMPER
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FO	FACTORY MUTUAL
FO	FLAT OVAL DUCT
FFM	FEET PER MINUTE
FT	FEET, FOOT
FS	FLOW SWITCH
FSD	FIRE SMOKE DAMPER
GAL	GALLON
GALV	GALVANIZED
GPM	GALLONS PER MINUTE

HB	HOSE BIBB
HP	HORSE POWER
HR	HOUR
H	HIGH, HEIGHT
HVAC	HEATING/VENTILATING/ AIR CONDITIONING
HWP	HOT WATER PUMP
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION (FLOW LINE)
IH	INTAKE HOOD
IN	INCHES
INSUL	INSULATION
IN WG	INCHES OF WATER
KW	KILOWATT(S)
L	LONG, LENGTH
LAT	LEAVING AIR TEMPERATURE
LVR	LOUVER

## ABBREV. DESCRIPTION

MAX	MAXIMUM
MD	MANUAL DAMPER
MECH	MECHANICAL
MIN	MINIMUM
MS	MOTOR STARTER
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAH	OUTSIDE AIR INTAKE HOOD
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER

PBD	PARALLEL BLADE DAMPER
PCHP	PRIMARY CHILLED WATER PUMP
PRESS	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH (GAUGE)
PHL	PRESSURE HIGH LIMIT

R-22	REFRIGERANT (TYPE AS NOTED)
RA	RETURN AIR
RE-4M7.01	REFER TO DETAIL 4, SHEET M7.01
RET	RETURN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHD	RELIEF HOOD
RPM	RPM
RTU	ROOF TOP UNIT

SA	SUPPLY AIR
SCH	SCHEDULE
SCHP	SECONDARY CHILLED WATER PUMP
SD	SMOKE DAMPER
SEC	SECOND
SF	SUPPLY FAN
STD	STANDARD
STL	STEEL
SW	SWITCH

TEMP	TEMPERATURE
THL	TEMPERATURE HIGH LIMIT
TLL	TEMPERATURE LOW LIMIT
TSTAT	THERMOSTAT
TU	TERMINAL UNIT
TXV	THERMOSTATIC EXPANSION VALVE
TYP	TYPICAL

UF	UNDER FLOOR
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORIES
V-12	CONTROL VALVE NUMBER
VAV	VARIABLE AIR VOLUM
VB	VALVE BOX
VD	VOLUME DAMPER
VEL	VELOCITY
VENT	VENTILATE
VF	VENTILATION FAN
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VOLT	VOLTAGE

W	WIDE, WIDTH
WI	WITH
W/O	WITHOUT
WB	WET BULB

## MECHANICAL GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND STANDARDS. CRAFTSMANSHIP AND MATERIAL SHALL BE OF THE HIGHEST QUALITY.
- THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS FULLY PRIOR TO THE SUBMITTAL PHASE OF THE PROJECT. CONFLICTS WITHIN AND BETWEEN THE CONTRACT DOCUMENTS SHALL BE NOTED IN WRITING TO THE ENGINEER PRIOR TO SUBMITTING DATA SHEETS FOR REVIEW.
- NOTE: FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHERE POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION TO, AND COOPERATE WITH THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR THE COMPLETION AND COORDINATION OF THE COMPLETE PROJECT. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE PRIME CONTRACTOR, ENGINEER AND, AS NECESSARY, THE OWNER.
- THE GENERAL CONTRACTOR SHALL MAINTAIN, ON A DAILY BASIS AT THE PROJECT SITE, A COMPLETE SET OF RECORD DRAWINGS REFLECTING THE PRECISE LOCATION OF CONCEALED EQUIPMENT, EMBEDDED PIPING, VALVES, PIPE RE-ROUTES, AND ALL CHANGES OR DEVIATIONS IN THE MECHANICAL WORK FROM THAT SHOWN ON THE CONTRACT DRAWINGS.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH THEY FURNISH AND INSTALL.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE A WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR, AT NO COST TO TENANT, FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. WARRANTIES SHALL BEGIN ON THE DATE OF SUBSTANTIAL COMPLETION.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES FOR ALL REQUIRED OPENINGS AND PENETRATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
- ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 1" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS AS REQUIRED FOR POWER.
- ROOF CURBS FOR EXHAUST FANS SHALL BE PER DETAILS SECTION, AND FURNISHED WITH THE FAN BASE, HOOD, AND FAN PACKAGE. THE GENERAL CONTRACTOR SHALL FLASH ROOF CURBS AND SHIM DEAD LEVEL, COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
- ROOF CURBS FOR ROOF TOP UNITS SHALL BE FACTORY FABRICATED OF GALVANIZED STEEL, CONSTRUCTION, AND FURNISHED WITH THE HVAC EQUIPMENT PACKAGE. VERIFY REQUIREMENTS FOR THE ROOF CURBS WITH THE EQUIPMENT SUPPLIER. THE GENERAL CONTRACTOR SHALL FIELD ASSEMBLE THE ROOF CURBS, FLASH AND SHIM DEAD LEVEL, COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
- ALL OUTDOOR AIR INTAKES BY MECHANICAL EQUIPMENT SHALL HAVE A MINIMUM 10'-0" HORIZONTAL CLEARANCE FROM THE DISCHARGE OF ANY EXHAUST FAN, COMBUSTION EXHAUST, OR PLUMBING VENT.
- GUARDS SHALL BE PROVIDED WHERE APPROPRIATE. EQUIPMENT, FANS OR OTHER COMPONENTS THAT REQUIRE SERVICE AND ROOF HATCH OPENING ARE LOCATED WITHIN 10' OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR, ROOF OR GRADE BELOW.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION AND FINISH OF ALL SUPPLY AND RETURN AIR DEVICES WITH THE ARCHITECT. ALL INTERIOR FACES OF DUCTWORK BEHIND RETURN AIR GRILLES SHALL BE PAINTED FLAT BLACK FOR LINE OF SIGHT.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHT FIXTURES AS WELL AS SPRINKLER PIPING AND HEADS WHERE INCLUDED IN THE PROJECT FOR A COMPLETE INSTALLATION, WHERE THE ALTERATION OF DUCT SIZES ARE NECESSARY, MAINTAIN CROSS-SECTIONAL AREAS.
- SUPPLY, RETURN AND RESTROOM EXHAUST DUCT CONSTRUCTION SHALL BE GALVANIZED STEEL, ANY REQUIRED GAUGES, SWAY BRACING AND SUSPENSION SHALL CONFORM TO SMACNA STANDARDS. SEAL ALL SEAMS AND JOINTS AIR AND WATER TIGHT. FLEXIBLE ALUMINUM DUCTWORK OR FIBERGLASS DUCTBOARD CAN BE ALLOWED WITH ENGINEER'S PRIOR APPROVAL.
- ALL RECTANGULAR, ROUND, AND FLEXIBLE DUCTWORK SHALL BE SIZED WITH CLEAR INSIDE DIMENSIONS AS SHOWN ON THESE DRAWINGS, AND SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED SMACNA STANDARDS. ALL JOINTS, SEAMS, AND CONNECTIONS MUST BE SECURELY FASTENED & SEALED.
- ALL HVAC SUPPLY AND RETURN CONCEALED DUCTWORK TO BE EXTERNALLY WRAPPED AND SECURED WITH MINIMUM 6.0, 2" INSULATION WITH VAPOR BARRIER PER APPLICABLE MECHANICAL CODES, WITH LOCAL JURISDICTION CODE AMENDMENTS. INSULATION SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED.
- AIR DEVICE SIZES SHOWN ON SCHEDULES ARE NECK SIZES.
- BOTTOM OF DUCT ELEVATION INDICATED ON THE DRAWING INDICATES THE APPROXIMATE HEIGHT ABOVE FINISHED FLOOR LEVEL TO THE UNDERSIDE OF THE DUCT. THIS INFORMATION IS OBSERVED AS AN AID TO COORDINATION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE.
- KEEP DUCTWORK AND PIPING INTERIOR CLEAN AND FREE OF DEBRIS THROUGHOUT THE PROJECT. CAP ALL PIPING AND DUCTWORK EXPOSED TO THE ELEMENTS.
- DO NOT COVER ANY MECHANICAL OR PLUMBING WORK IN WALLS, ABOVE CEILING, ETC. PRIOR TO REQUESTING OBSERVATION BY THE ENGINEER. ALL WORK COVERED WITHOUT OBSERVATION BY THE ENGINEER SHALL BE UNCOVERED FOR OBSERVATION.
- PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE DUCT/PIPING CONNECTIONS TO ALL MOVING MACHINERY NOT INTERNALLY ISOLATED.
- ALL MEDIUM PRESSURE DUCTWORK SHALL BE TESTED IN ACCORDANCE WITH SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL. 10% OF LOW PRESSURE DUCT SYSTEM SHALL BE TESTED. IF LEAKAGE TEST RESULTS EXCEED THE MAX. ALLOWABLE RATE, THE ENTIRE DUCT SYSTEMS SHALL BE TESTED AND DUCT LEAKAGE SHALL BE CORRECTED UNTIL SATISFACTORY RATES ARE OBTAINED.
- ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
- MECHANICAL CONTRACTOR SHALL PROVIDE FIRE DAMPERS AT ANY LOCATION WHERE DUCTWORK PASSES THROUGH A FIRE RATED WALL ASSEMBLY IN ACCORDANCE WITH FC.
- PER APPLICABLE MECHANICAL CODES, WITH LOCAL JURISDICTION CODE AMENDMENTS WHEN REQUIRED, EACH SINGLE SYSTEM PROVIDING HEATING OR COOLING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIRMOVING EQUIPMENT DEVICES WHICH WILL DETECT PRODUCTS OF COMBUSTION OTHER THAN HEAT, AND WHICH COMPLY WITH THE IBC. SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH THE OPERATING VELOCITIES, PRESSURES, TEMPERATURES AND HUMIDITIES OF THE SYSTEM WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING. SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS.
- ROOF TOP UNITS SHALL BE SET TO RUN IN "FAN CONTINUOUS" MODE DURING OCCUPIED HOURS. DURING NIGHT SET-BACK HOURS, THE ROOF TOP UNITS SHALL RUN IN "FAN AUTO" MODE.
- UNLESS NOTED OTHERWISE, ALL CAPACITIES INDICATED ARE AT SITE CONDITIONS. ALL EQUIPMENT SHALL BE ADJUSTED, MODIFIED AND ORDERED TO ACCOMMODATE SITE CONDITIONS.
- INSTALL EQUIPMENT TO AVOID SOUND OR NOISE TRANSMISSION TO OCCUPIED SPACES.
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS LISTED ON THE DRAWINGS AND SPECIFICATIONS INCLUDING THOSE LISTED UNDER THE ENERGY COMPLIANCE REPORT. ALL EQUIPMENT INSTALLED SHALL BE PROVIDED WITH THE MANUFACTURER'S RECOMMENDED MAINTENANCE AND OPERATING CLEARANCES.
- MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL 4" HIGH BLACK OVER WHITE LAMINATE NAMEPLATE WITH 2" LETTERS VISIBLE ADJACENT TO DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENT.
- ALL CONDUITS, DISCONNECT SWITCHES AND FINAL CONNECTIONS FOR LINE VOLTAGE WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. LOW VOLTAGE CONDUIT, WIRING AND FINAL CONNECTIONS BY MECHANICAL CONTRACTOR.
- MAINTAIN MINIMUM CLEARANCES IN FRONT OF ALL CONTROL AND ELECTRIC PANELS ON EQUIPMENT SUCH AS FANS, AIR TERMINAL UNITS, ETC. IN ACCORDANCE WITH THE FOLLOWING: 100 V <= 250 V <= 42" 480 V <= 48" CLEARANCE MAY BE MEASURED THROUGH REMOVABLE CEILING GRID OR ACCESS PANEL, WHERE FACTORY MOUNTED PANELS DO NOT ALLOW ADEQUATE CLEARANCE. RELOCATE AND REMOUNT AS REQUIRED. ALL FACTORY WARRANTIES SHALL BE MAINTAINED.
- REFRIGERANT LINES & DUCTS IN FINISH ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR INSTALLED ABOVE SUSPENDED CEILING UNLESS NOTED OTHERWISE.
- CONTRACTOR TO PROVIDE ALL REQUIRED CONDENSATE LINES FOR ALL EQUIPMENT. REFER TO PLUMBING PLANS.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THE AIR FILTERS AT THE ROOF TOP UNITS WITH AS PER MANUFACTURER RECOMMENDATION AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCE.
- TEST, ADJUST AND BALANCE ALL AIR AND WATER SYSTEMS AFTER INSTALLATION IS COMPLETE. SUBMIT REPORTS TO ENGINEER FOR REVIEW AND APPROVAL.
- TURNOVER ALL EQUIPMENT AND MATERIAL, OILING, OPERATING AND MAINTENANCE (OM) MANUALS TO OWNER AFTER INSTALLATION IS COMPLETE.
- CONTRACTOR SHALL HAVE A THIRD PARTY CERTIFIED TEST AND BALANCE REPORT PERFORMED AT COMPLETION OF PROJECT. THIRD PARTY TAB CONTRACTOR TO BE SELECTED BY OWNER. ANY DIFFERENCES ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- MECHANICAL CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF PROJECT TURNOVER.
- TYPICAL DETAILS AND NOTES SHALL APPLY, THOUGH NOT NECESSARILY INDICATED AT A SPECIFIC LOCATION ON PLANS, WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL, STRUCTURAL NOTES AND TYPICAL DETAILS.

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TORTUGAS TRAIL, LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION
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FILE NAME:	
DRAWN BY:	M.C
CHECKED BY:	J.M
SHEET TITLE:	

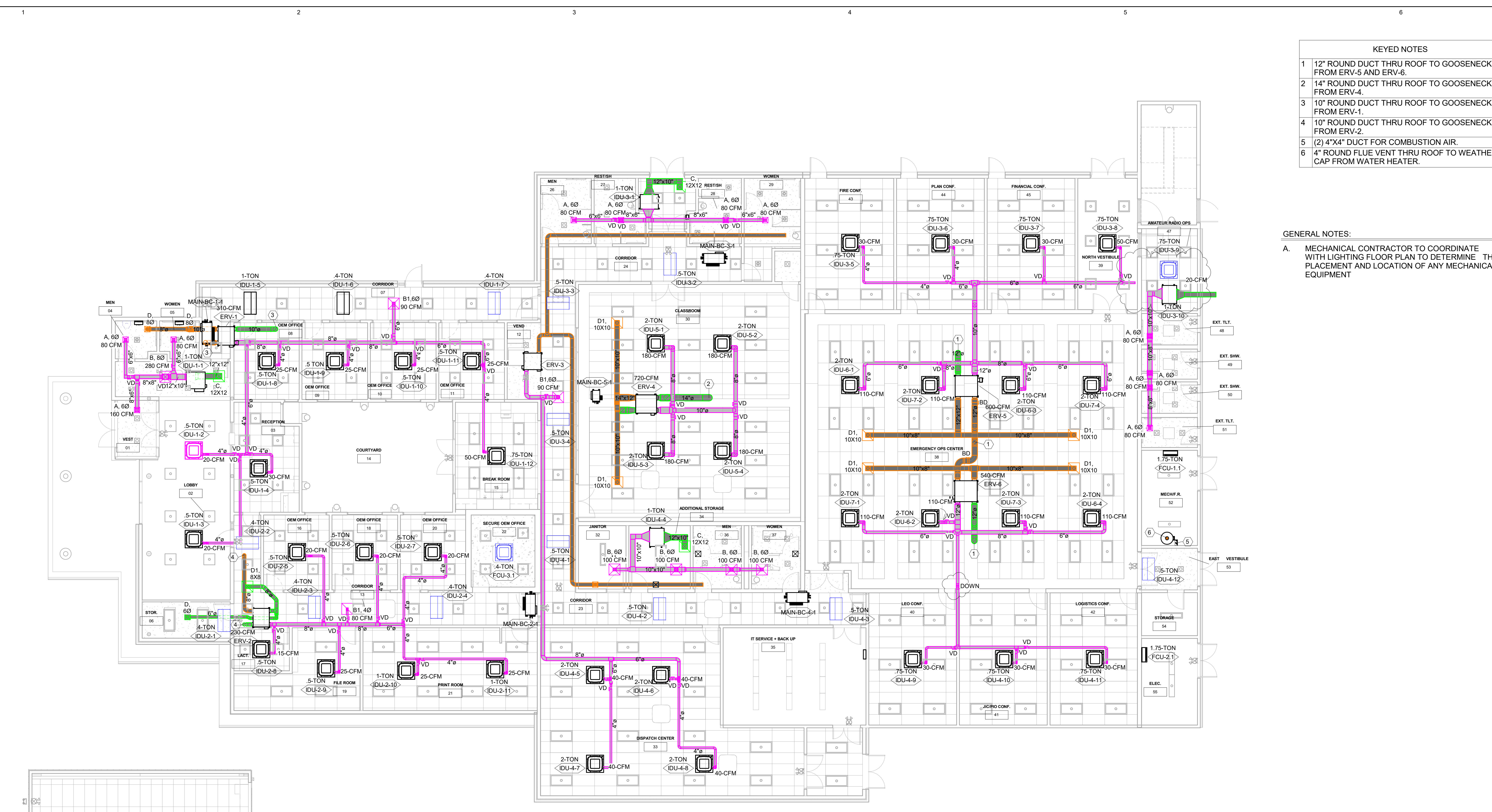
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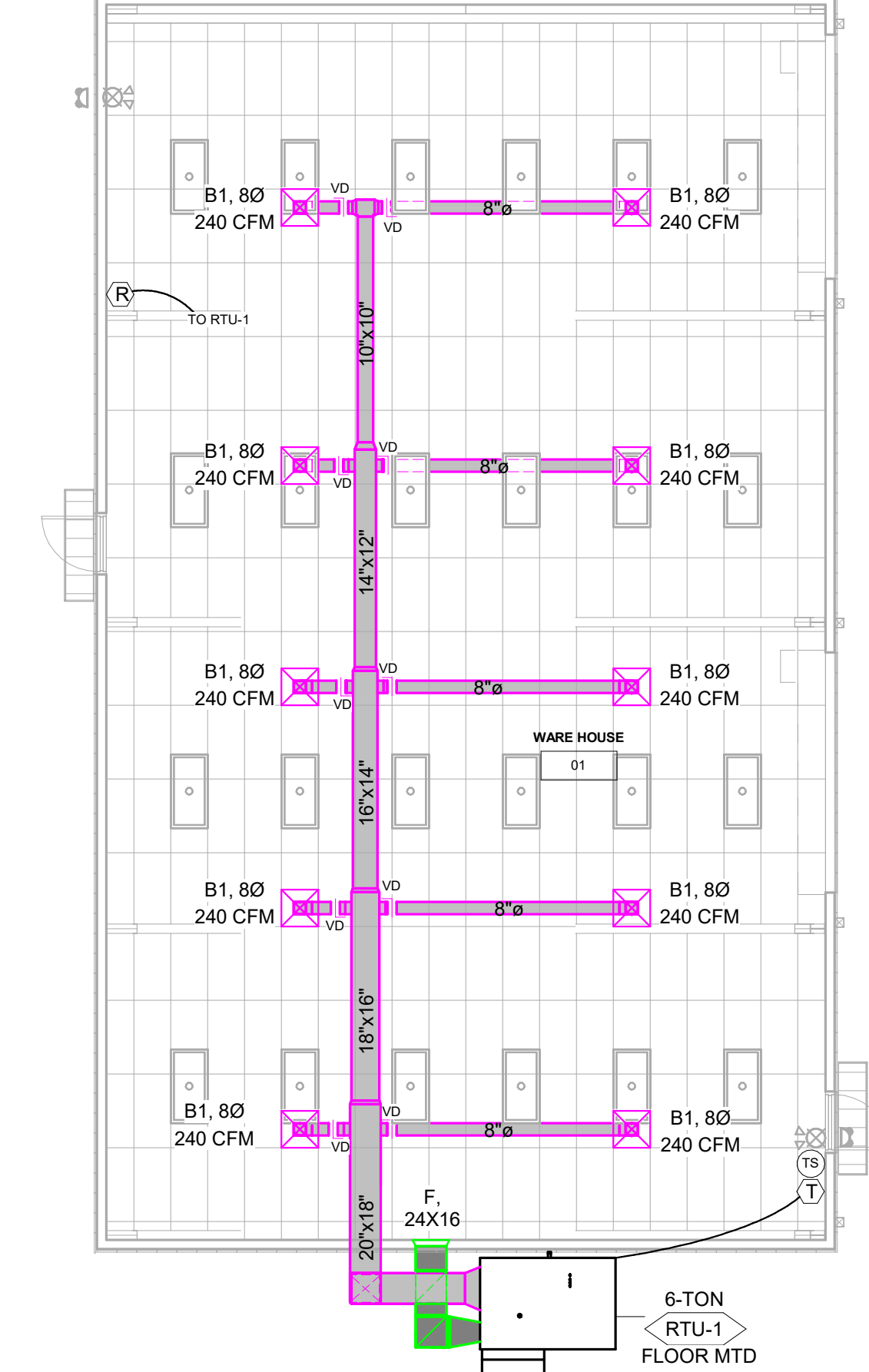
MECHANICAL  
GENERAL NOTES

SHEET NO:  
M-100

CLC-23-058



1 MECHANICAL PLAN  
1/8" = 1'-0"



2 WAREHOUSE MECHANICAL PLAN  
1/8" = 1'-0"

- KEYED NOTES
- 12" ROUND DUCT THRU ROOF TO GOOSENECK FROM ERV-5 AND ERV-6.
  - 14" ROUND DUCT THRU ROOF TO GOOSENECK FROM ERV-4.
  - 10" ROUND DUCT THRU ROOF TO GOOSENECK FROM ERV-1.
  - 10" ROUND DUCT THRU ROOF TO GOOSENECK FROM ERV-2.
  - (2) 4"x4" DUCT FOR COMBUSTION AIR.
  - 4" ROUND FLUE VENT THRU ROOF TO WEATHER CAP FROM WATER HEATER.

- GENERAL NOTES:
- MECHANICAL CONTRACTOR TO COORDINATE WITH LIGHTING FLOOR PLAN TO DETERMINE THE PLACEMENT AND LOCATION OF ANY MECHANICAL EQUIPMENT

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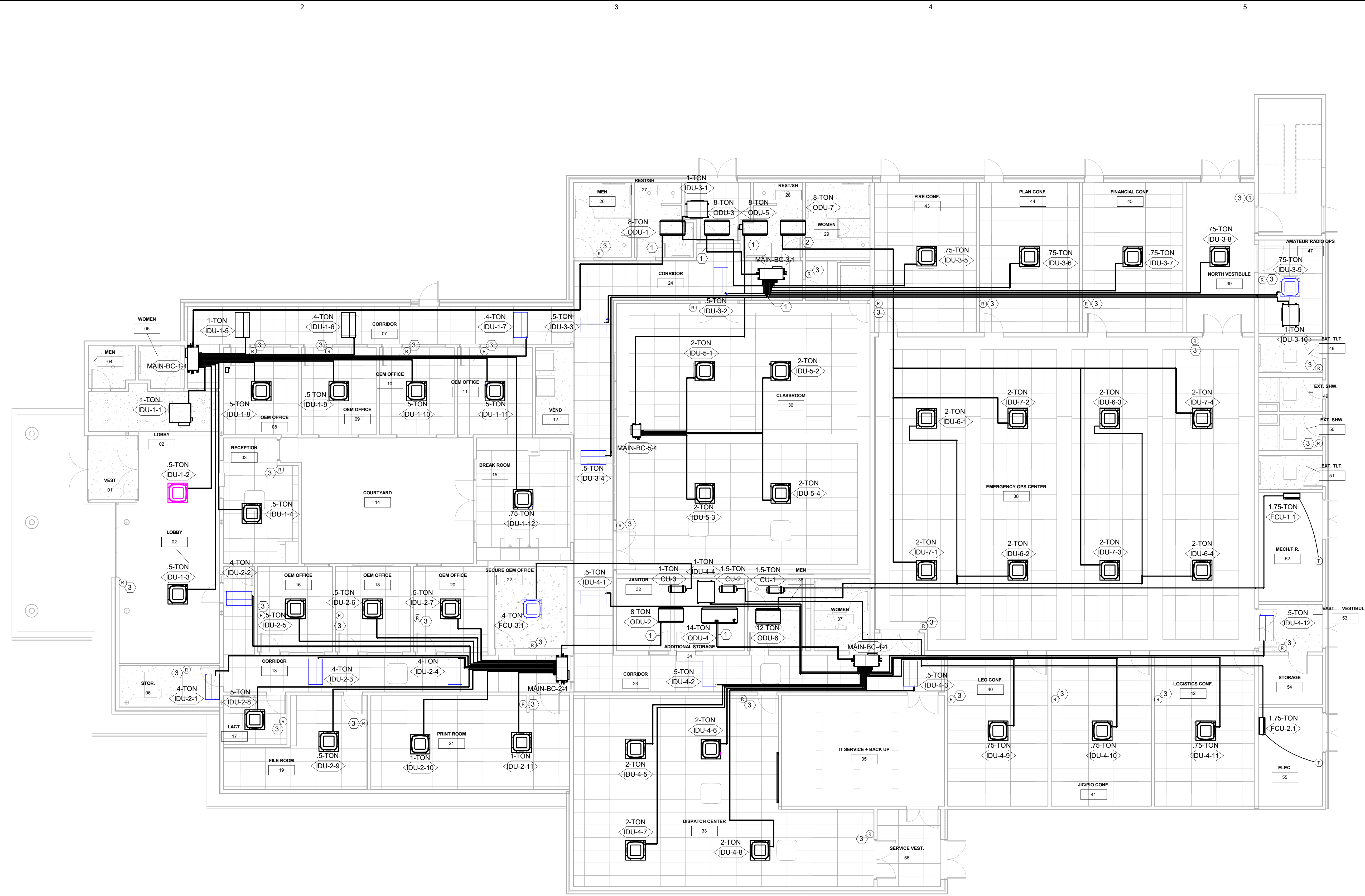
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MECHANICAL PLAN  
 SHEET NO: M-200

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1 REFRIGERANT AND THERMOSTAT DISTRIBUTION PLAN  
 M-201 1/8" = 1'-0"

- KEYED NOTES**
- REFRIGERANT LINES DOWN THRU ROOF FROM CONDENSER UNIT TO MAIN BRANCH CONTROLLER ON PLENUM. REFRIGERANT LINES SIZED AS PER MANUFACTURER'S RECOMMENDATIONS.
  - RS/RL LINES DOWN THROUGH ROOF TO CORRESPONDING IDU UNIT. REFRIGERANT LINES SIZED AS PER MANUFACTURER'S RECOMMENDATIONS.
  - PROVIDE REMOTE TEMPERATURE SENSOR CONNECT TO UNIT THERMOSTAT. COORDINATE WITH MANUFACTURER FOR ADDITIONAL REQUIRED INTERFACES TO CONNECT REMOTE TEMPERATURE SENSOR TO THERMOSTAT.

- GENERAL NOTES:**
- REFRIGERANT LINES SIZED AS PER MANUFACTURER'S RECOMMENDATIONS.
  - ALL REFRIGERANT LINES ARE SHOWN AS A SINGLE LINE FOR BETTER VISIBILITY
  - FOR HEAT RECOVERY SYSTEMS, COORDINATE DIRECTLY WITH VENDOR FOR ALL REFRIGERANT LINES PIPING DIAGRAMS, LENGTHS AND SIZES.
  - BRANCH BOXES SHALL INCLUDE FIELD MOUNTED REFRIGERANT VALVES.
  - IT IS THE RESPONSIBILITY OF THE INSTALLING MECHANICAL CONTRACTOR TO PROVIDE THE EXACT REFRIGERANT PIPE LENGTHS AND ELBOW COUNTS TO EACH INDOOR UNIT FROM THE CONDENSING UNITS AND BRANCH BOXES. THIS INFORMATION SHALL BE PROVIDED TO TRANE/MITSUBISHI VENDOR
  - MECHANICAL CONTRACTOR TO COORDINATE WITH LIGHTING FLOOR PLAN TO DETERMINE THE PLACEMENT AND LOCATION OF ANY MECHANICAL EQUIPMENT.

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MARK	DATE	DESCRIPTION

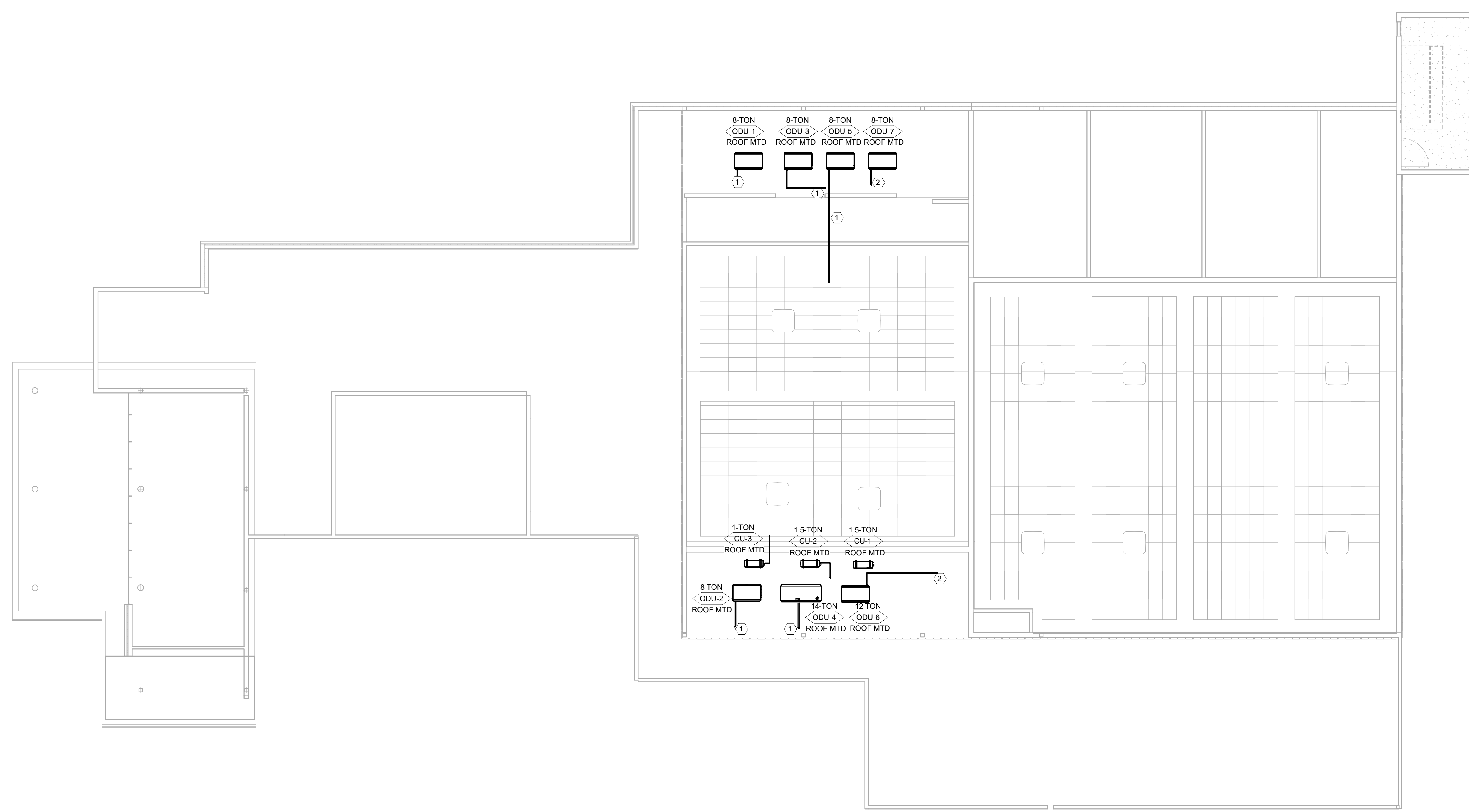
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 CHECKED BY: J.M

SHEET TITLE:  
**REFRIGERANT PIPING AND THERMOSTAT DISTRIBUTION PLAN**

SHEET NO:  
**M-201**

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1 MECHANICAL ROOF PLAN  
 M-202 1/8" = 1'-0"

**KEYED NOTES**

1 REFRIGERANT LINES DOWN THRU ROOF FROM CONDENSER UNIT TO MAIN BRANCH CONTROLLER ON PLENUM. REFRIGERANT LINES SIZED AS PER MANUFACTURER'S RECOMMENDATIONS.

2 RS/R/L LINES DOWN TROUGH ROOF TO CORRESPONDING IDU UNIT. REFRIGERANT LINES SIZED AS PER MANUFACTURER'S RECOMMENDATIONS.

**GENERAL NOTES:**

A. REFRIGERANT LINES SIZED AS PER MANUFACTURER'S RECOMMENDATIONS

B. ALL REFRIGERANT LINES ARE SHOWN AS SINGLE LINE FOR BETTER VISIBILITY.

C. FOR CRF HEAT RECOVERY SYSTEM, COORDINATE DIRECTLY WITH VENDOR FOR ALL REFRIGERANT LINE PIPING DIAGRAM, LENGTHS AND SIZES.

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PROJECT NO.: 22115L  
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 DRAWN BY: Author  
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**MECHANICAL ROOF PLAN**

SHEET NO:  
**M-202**

# MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF OUTDOOR UNIT...

SYSTEM TAG	TAG REFERENCE	M-NET ADDRESS	MODEL NUMBER	MODULES	NOMINAL COOLING CAPACITY (BTU/H)	NOMINAL HEATING CAPACITY (BTU/H)	DESIGN COOLING OUTDOOR TEMP DB (°F)	DESIGN HEATING OUTDOOR TEMP WB (°F)	CORRECTED COOLING CAPACITY (BTU/H)	CORRECTED HEATING CAPACITY (BTU/H)	ELECTRICAL-PER MODULE 208/230 OR [460V]				NOTES / OPTIONS	
											VOLTAGE / PHASE	MCA 208/230 O...	RFS	MOCP		
ODU-1	ODU-1	51	TURYE0964AN40AN	EP96	96,000	108,000	99.0	13.6	91,275.8	70,718.1	460V / 3-phase 3-wire	20		30	1, 2, 3, 4, 5	
ODU-2	ODU-2	63	TURYE0964AN40AN	EP96	96,000	108,000	99.0	13.6	91,206.6	70,475.8	460V / 3-phase 3-wire	20		30	1, 2, 3, 4, 5	
ODU-3	ODU-3	74	TURYE0964AN40AN	EP96	96,000	108,000	99.0	13.6	90,240.7	70,405.2	460V / 3-phase 3-wire	20		30	1, 2, 3, 4, 5	
ODU-4	ODU-4	51	TURYE1684AN40AN	EP168	168,000	188,000	99.0	13.6	155,242.3	118,990.6	460V / 3-phase 3-wire	35		50	1, 2, 3, 4, 5	
ODU-5	ODU-5	63	TURYE0964AN40AN	EP96	96,000	108,000	99.0	13.6	90,777.3	70,758.0	460V / 3-phase 3-wire	20		30	1, 2, 3, 4, 5	
ODU-6	ODU-6	67	TUHYE1204AN40AN	EP120	120,000	135,000	99.0	13.6	113,615.9	85,505.0	460V / 3-phase 3-wire	25	25	40	1, 2, 3, 4, 5	
ODU-7	ODU-7	71	TUHYE1204AN40AN	EP120	120,000	135,000	99.0	13.6	113,615.9	85,505.0	460V / 3-phase 3-wire	25	25	40	1, 2, 3, 4, 5	
CU-1	CU-1	25	TRUZA0181KA70NA		18,000	19,000	99.0	13.6	13,593.5	9,934.0	208/230V / 1-phase	11		15	28	1, 2, 3, 4, 5
CU-2	CU-2	26	TRUZA0181KA70NA		18,000	19,000	99.0	13.6	13,593.5	9,934.0	208/230V / 1-phase	11		15	28	1, 2, 3, 4, 5
CU-3	CU-3	27	TRUZA0121KA70NA		12,000	14,000	99.0	13.6	9,062.3	7,319.8	208/230V / 1-phase	11		15	28	1, 2, 3, 4, 5

**Notes & Options:**

- Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
- Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
- Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
- For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning.
- Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.

# VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER

SYSTEM TAG	TAG REFERENCE	M-NET ADDRESS	MODEL NUMBER	TYPE (DOUBLE / MAIN / SUB)	NUMBER OF PORTS	CONNECTED CAPACITY TO BC	VOLTAGE / PHASE	MCA 208/230	NOTES / OPTIONS
ODU-1	BCC-1	52	TCMBG0108SJ11N4	Single	8	102,000.0	208/230V/1-phase	0.74/0.87	1
ODU-2	BCC-2	64	TCMBG0108SJ11N4	Single	8	92,000.0	208/230V/1-phase	0.74/0.87	1
ODU-3	BCC-3	75	TCMBG0108SJ11N4	Single	8	94,000.0	208/230V/1-phase	0.74/0.87	1
ODU-4	BCC-4	52	TCMBM0108JA11N4	Main	8	168,000.0	208/230V/1-phase	0.63/0.97	1
ODU-5	BCC-5	64	TCMBG0104SJ11N4	Single	4	96,000.0	208/230V/1-phase	0.38/0.44	1

**Notes & Options:**

- Include Diamondback Ball Valves BV-Series, 700PSIG working pressure, full port, 410A rated.
- For sub BC controller CMB-P-NU-GB1 or -GB, the total connectable indoor unit capacity can be 126,000 BTUs or less. If two sub BC controllers are used, the total indoor unit capacity connected to BOTH sub BC controllers also cannot exceed 126,000 BTUs. For sub BC controller CMB-P1016NU-HB1 the total connectable indoor unit capacity can be 126,000 BTUs or less. However, if two sub controllers are used, and one of them is CMB-1016NU-HB1, the total indoor unit capacity connected to BOTH sub controllers must NOT exceed 168,000 BTUs.

# LOSSNAY ENERGY RECOVERY VENTILATOR SCHEDULE

LOSSNAY TAG	MODEL NUMBER	INTERLOCK ED OR STAND ALONE	CORE TYPE	NOMINAL AIRFLOW (CFM)	MAX ESP (INWG)	NOMINAL RECOVERY EFFECTIVENESS (EXTRA HIGH FAN SPEED)			VOLTAGE / PHASE	MCA / MOCP	NOTES / OPTIONS
						TEMPERATURE RECOVERY	ENTHALPY COOLING	ENTHALPY HEATING			
ERV-1	TLGHF0300RVX02 A	Stand-Alone	Fixed Permeable Cross Plate	300	1.00	65.5%	50.0%	63.0%	208-230V/1-phase	/15	1, 2, 3
ERV-2	TLGHF0300RVX02 A	Stand-Alone	Fixed Permeable Cross Plate	300	1.00	65.5%	50.0%	63.0%	208-230V/1-phase	/15	1, 2, 3
ERV-3	TLGHF0380RVX02 A	Stand-Alone	Fixed Permeable Cross Plate	380	0.86	65.0%	49.0%	61.0%	208-230V/1-phase	/15	1, 2, 3
ERV-4	TLGHF0940RVX02 A	Stand-Alone	Fixed Permeable Cross Plate	940	1.00	69.0%	51.0%	64.0%	208-230V/1-phase	/15	1, 2, 3
ERV-5	TLGHF0600RVX02 A	Stand-Alone	Fixed Permeable Cross Plate	600	0.86	67.0%	50.0%	64.0%	208-230V/1-phase	/15	1, 2, 3
ERV-6	TLGHF0600RVX02 A	Stand-Alone	Fixed Permeable Cross Plate	600	0.86	67.0%	50.0%	64.0%	208-230V/1-phase	/15	1, 2, 3

**Notes & Options:**

- Max external static pressure is at airflow listed with fan set on extra high speed.
- See schematic piping/control diagram for indication of required lossnay local remote controller (stand alone operation) and M-NET connection points of associated systems.
- Washable factory standard pre-filter on return and O/A intake side of cross plate core.

# DIFFUSER AND GRILLE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUAL	REMARKS
A	SUPPLY SURFACE MOUNT	PRICE SMDA	ALL STEEL, NOMINAL 12" X 12" FACE, ADJUSTABLE PATTERN CONTROLLER, NECK SIZE AS SHOWN, BORDER FOR CEILING SPECIFIED, 4-WAY THROW UNLESS SPECIFIED OTHERWISE.
B	SUPPLY SURFACE MOUNT	PRICE SMDA	ALL STEEL, NOMINAL 24" X 24" FACE, ADJUSTABLE PATTERN CONTROLLER, NECK SIZE AS SHOWN, BORDER FOR CEILING SPECIFIED, 4-WAY THROW UNLESS SPECIFIED OTHERWISE.
B1	SUPPLY LAY-IN	PRICE SMDA	ALL STEEL, NOMINAL 24" X 24" FACE, ADJUSTABLE PATTERN CONTROLLER, NECK SIZE AS SHOWN, BORDER FOR CEILING SPECIFIED, 4-WAY THROW UNLESS SPECIFIED OTHERWISE.
C	RETURN SURFACE MOUNT	PRICE 80	ALL ALUMINUM, 12" X 12" X 1/2" EGG CRATE FLUSH FACE, NOMINAL 24" X 24" FACE, NECK SIZE AS SHOWN ON DRAWINGS, BORDER FOR CEILING SPECIFIED.
D	EXHAUST SURFACE MOUNT	PRICE 510ZL	ALL STEEL, ONE SET OF FIXED HORIZONTAL BLADES PARALLEL TO LONG SIDES, 1/2" SPACING, ZERO DEGREES OF DEFLECTION, OPPOSED BLADE BALANCING DAMPER, NOMINAL 12" X 12" FACE.
D1	EXHAUST LAY-IN	PRICE 510Z	ALL STEEL, ONE SET OF FIXED HORIZONTAL BLADES PARALLEL TO LONG SIDES, 1/2" SPACING, ZERO DEGREES OF DEFLECTION, OPPOSED BLADE BALANCING DAMPER, NOMINAL 24" X 24" FACE.
F	SIDEWALL RETURN SURFACE MOUNT	PRICE 510ZL	ALL STEEL, NOMINAL FACE SIZE AS SHOWN ON DRAWINGS, WITH HORIZONTAL BLADES PARALLEL TO THE LONG DIMENSION AT ZERO DEGREES DEFLECTION, 1/2" SPACING.

# PACKAGED ROOFTOP UNIT SCHEDULE

MARK	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUAL	SERVICE	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	ESP	COOLING			COIL ENT. AIR		AMB DB°F	SEER 2	SEER EER	HEATING			ELECTRICAL					APPROX. NET WEIGHT (LBS)	DUCT CONFIGURATION	REMARKS	
						TOTAL MBH	SENS MBH	LAT °F	DB°F	WB°F				INPUT MBH	OUTPUT MBH	FUEL	EFFICIENCY (%)	MCA	MDP	VOLTS	PHASE				HP
RTU-1	TRANE 6-TON YS407A330L	WAREHOUSE	2,400	300	0.5	71.3	55.6	59.34	80	67	105	11	14.6	80.0	64.8	NG	80%	38	50	460	3	3.00	1111	HORIZONTAL	1, 2, 3, 4, 5, 6, 7, 8, 9

- REMARKS:**
- CONDENSATE OVERFLOW SWITCH.
  - SUPPLY AIR SMOKE DETECTOR.
  - BAROMETRIC RELIEF.
  - ECONOMIZER DRY BULB.
  - HAIL GUARDS.
  - HIGH-ALTITUDE KIT.
  - ZONE PROGRAMMABLE THERMOSTAT.
  - SMOKE DETECTORS W/REMOTE TEST STATIONS.
  - QUICK ADAPT CURBS/ROOF CURBS.

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PRELIMINARY DRAWINGS  
01-03-25



CLC-23-058

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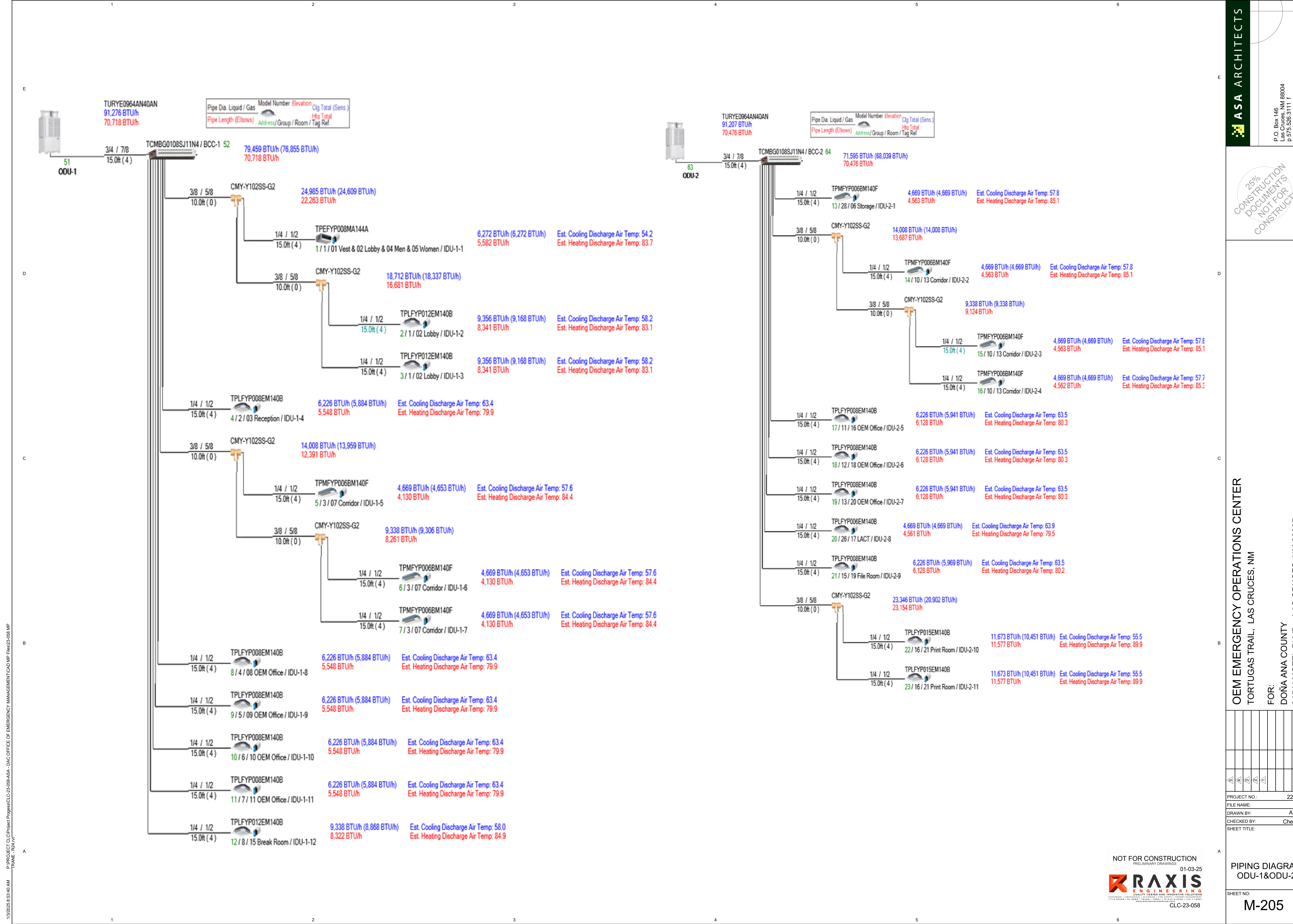
MECHANICAL SCHEDULES

SHEET NO:

M-203

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

SYSTEM TAG	ROOM NAME	TAG REFERENCE	MODEL	TYPE	NOMINAL COOLING CAPACITY (BTU/H)	NOMINAL HEATING CAPACITY (BTU/H)	COOLING DESIGN ENTERING TEMP DB/WB (°F) / [WATER IN TEMP]	HEATING DESIGN ENTERING TEMP DB/W...	CORRECTED CAPACITY				REFRIG PIPE DIM LIQUID/SUCTIO N (INCH)	FAN SPEED SETTING	PEAK FAN AIRFLOW (CFM) / [DESIGN GPM (US)/MIN]	MAX FAN ESP SETTING 208V/230V (IN WG)	VOLTAGE / PHASE	ELECTRICAL MCA/MFS	NOTES / OPTIONS	
									COOLING DIVERSITY FULL/PARTI...	COOLING TOTAL CAPACITY (BTU/H)	COOLING SENSIBLE CAPACITY...	HEATING DIVERSITY FULL/PARTIAL...								HEATING CAPACITY (BTU/H)
ODU-1	01 Vest & 02 Lobby & 04 Men & 05 Women	IDU-1-1	TPEFY008MA144A	Ceiling-Concealed (Ducted)	8,000	9,000	76.9/62.1	64	FULL DEMAND	6,272.5	6,272.5	FULL DEMAND	5,581.6	1/4 / 1/2	HIGH	300	0.6/0.6	208/230V/1-phase	1.75/15	1, 2, 3, 4
ODU-1	02 Lobby	IDU-1-2	TPLFY012EM140B	Ceiling-Cassette (Four-Way)	12,000	13,500	74.8/61.8	68.2	FULL DEMAND	9,356.0	9,168.4	FULL DEMAND	8,340.7	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-1	02 Lobby	IDU-1-3	TPLFY012EM140B	Ceiling-Cassette (Four-Way)	12,000	13,500	74.8/61.8	68.2	FULL DEMAND	9,356.0	9,168.4	FULL DEMAND	8,340.7	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-1	03 Reception	IDU-1-4	TPLFY008EM140B	Ceiling-Cassette (Four-Way)	8,000	9,000	74.0/61.7	70	FULL DEMAND	6,225.6	5,883.9	FULL DEMAND	5,548.3	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-1	07 Corridor	IDU-1-5	TPMFY006BM140F	Ceiling Cassette (One-Way)	6,000	6,700	74.0/61.7	70	FULL DEMAND	4,669.2	4,652.9	FULL DEMAND	4,130.4	1/4 / 1/2	HIGH	307		208/230V/1-phase	0.25/15	1, 2, 3, 4
ODU-1	07 Corridor	IDU-1-6	TPMFY006BM140F	Ceiling Cassette (One-Way)	6,000	6,700	74.0/61.7	70	FULL DEMAND	4,669.2	4,652.9	FULL DEMAND	4,130.4	1/4 / 1/2	HIGH	307		208/230V/1-phase	0.25/15	1, 2, 3, 4
ODU-1	07 Corridor	IDU-1-7	TPMFY006BM140F	Ceiling Cassette (One-Way)	6,000	6,700	74.0/61.7	70	FULL DEMAND	4,669.2	4,652.9	FULL DEMAND	4,130.4	1/4 / 1/2	HIGH	307		208/230V/1-phase	0.25/15	1, 2, 3, 4
ODU-1	08 OEM Office	IDU-1-8	TPLFY008EM140B	Ceiling-Cassette (Four-Way)	8,000	9,000	74.0/61.7	70	FULL DEMAND	6,225.6	5,883.9	FULL DEMAND	5,548.3	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-1	09 OEM Office	IDU-1-9	TPLFY008EM140B	Ceiling-Cassette (Four-Way)	8,000	9,000	74.0/61.7	70	FULL DEMAND	6,225.6	5,883.9	FULL DEMAND	5,548.3	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-1	10 OEM Office	IDU-1-10	TPLFY008EM140B	Ceiling-Cassette (Four-Way)	8,000	9,000	74.0/61.7	70	FULL DEMAND	6,225.6	5,883.9	FULL DEMAND	5,548.3	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-1	11 OEM Office	IDU-1-11	TPLFY008EM140B	Ceiling-Cassette (Four-Way)	8,000	9,000	74.0/61.7	70	FULL DEMAND	6,225.6	5,883.9	FULL DEMAND	5,548.3	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-1	15 Break Room	IDU-1-12	TPLFY012EM140B	Ceiling-Cassette (Four-Way)	12,000	13,500	74.0/61.7	70	FULL DEMAND	9,338.4	8,868.0	FULL DEMAND	8,322.4	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-2	06 Storage	IDU-2-1	TPMFY006BM140F	Ceiling Cassette (One-Way)	6,000	6,700	74.3/61.7	69.2	FULL DEMAND	4,669.2	4,669.2	FULL DEMAND	4,562.6	1/4 / 1/2	HIGH	307		208/230V/1-phase	0.25/15	1, 2, 3, 4
ODU-2	13 Corridor	IDU-2-2	TPMFY006BM140F	Ceiling Cassette (One-Way)	6,000	6,700	74.3/61.7	69.2	FULL DEMAND	4,669.2	4,669.2	FULL DEMAND	4,562.6	1/4 / 1/2	HIGH	307		208/230V/1-phase	0.25/15	1, 2, 3, 4
ODU-2	13 Corridor	IDU-2-3	TPMFY006BM140F	Ceiling Cassette (One-Way)	6,000	6,700	74.3/61.7	69.2	FULL DEMAND	4,669.2	4,669.2	FULL DEMAND	4,562.6	1/4 / 1/2	HIGH	307		208/230V/1-phase	0.25/15	1, 2, 3, 4
ODU-2	13 Corridor	IDU-2-4	TPMFY006BM140F	Ceiling Cassette (One-Way)	6,000	6,700	74.2/61.7	69.4	FULL DEMAND	4,669.2	4,669.2	FULL DEMAND	4,561.8	1/4 / 1/2	HIGH	307		208/230V/1-phase	0.25/15	1, 2, 3, 4
ODU-2	16 OEM Office	IDU-2-5	TPLFY008EM140B	Ceiling-Cassette (Four-Way)	8,000	9,000	74.2/61.7	69.4	FULL DEMAND	6,225.6	5,940.6	FULL DEMAND	6,127.8	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-2	18 OEM Office	IDU-2-6	TPLFY008EM140B	Ceiling-Cassette (Four-Way)	8,000	9,000	74.2/61.7	69.4	FULL DEMAND	6,225.6	5,940.6	FULL DEMAND	6,127.8	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-2	20 OEM Office	IDU-2-7	TPLFY008EM140B	Ceiling-Cassette (Four-Way)	8,000	9,000	74.2/61.7	69.4	FULL DEMAND	6,225.6	5,940.6	FULL DEMAND	6,127.8	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-2	17 LACT	IDU-2-8	TPLFY006EM140B	Ceiling-Cassette (Four-Way)	6,000	6,700	74.1/61.7	69.6	FULL DEMAND	4,669.2	4,669.2	FULL DEMAND	4,561.0	1/4 / 1/2	HIGH	494		208/230V/1-phase	0.24/0.19/15	1, 2, 3, 4
ODU-2	19 File Room	IDU-2-9	TPLFY008EM140B	Ceiling-Cassette (Four-Way)	8,000	9,000	74.3/61.7	69.3	FULL DEMAND	6,225.6	5,968.9	FULL DEMAND	6,128.3	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-2	21 Print Room	IDU-2-10	TPLFY015EM140B	Ceiling-Cassette (Four-Way)	15,000	17,000	74.3/61.7	69.2	FULL DEMAND	11,673.1	10,450.9	FULL DEMAND	11,576.8	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-2	21 Print Room	IDU-2-11	TPLFY015EM140B	Ceiling-Cassette (Four-Way)	15,000	17,000	74.3/61.7	69.2	FULL DEMAND	11,673.1	10,450.9	FULL DEMAND	11,576.8	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-3	26 Men & 27 Women & 28 Women & 29 Men	IDU-3-1	TPEFY012MA144A	Ceiling-Concealed (Ducted)	12,000	13,500	75.4/61.9	67	FULL DEMAND	9,373.6	7,899.7	FULL DEMAND	9,023.9	1/4 / 1/2	HIGH	371	0.6/0.6	208/230V/1-phase	2.13/15	1, 2, 3, 4
ODU-3	25 Corridor	IDU-3-2	TPMFY006BM140F	Ceiling Cassette (One-Way)	6,000	6,700	74.4/61.7	69	FULL DEMAND	4,669.2	4,669.2	FULL DEMAND	4,470.4	1/4 / 1/2	HIGH	307		208/230V/1-phase	0.25/15	1, 2, 3, 4
ODU-3	25 Corridor	IDU-3-3	TPMFY006BM140F	Ceiling Cassette (One-Way)	6,000	6,700	74.4/61.7	69	FULL DEMAND	4,669.2	4,669.2	FULL DEMAND	4,470.4	1/4 / 1/2	HIGH	307		208/230V/1-phase	0.25/15	1, 2, 3, 4
ODU-3	25 Corridor	IDU-3-4	TPMFY006BM140F	Ceiling Cassette (One-Way)	6,000	6,700	74.4/61.7	69	FULL DEMAND	4,669.2	4,669.2	FULL DEMAND	4,470.4	1/4 / 1/2	HIGH	307		208/230V/1-phase	0.25/15	1, 2, 3, 4
ODU-3	43 Fire Conference	IDU-3-5	TPLFY012EM140B	Ceiling-Cassette (Four-Way)	12,000	13,500	74.0/61.7	70	FULL DEMAND	9,338.4	8,868.0	FULL DEMAND	8,994.4	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-3	44 Plan Conference	IDU-3-6	TPLFY012EM140B	Ceiling-Cassette (Four-Way)	12,000	13,500	74.0/61.7	70	FULL DEMAND	9,338.4	8,868.0	FULL DEMAND	8,994.4	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-3	45 Financial Conference	IDU-3-7	TPLFY012EM140B	Ceiling-Cassette (Four-Way)	12,000	13,500	74.0/61.7	70	FULL DEMAND	9,338.4	8,868.0	FULL DEMAND	8,994.4	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-3	39 Vestibule	IDU-3-8	TPLFY008EM140B	Ceiling-Cassette (Four-Way)	8,000	9,000	74.0/61.7	70	FULL DEMAND	6,225.6	5,883.9	FULL DEMAND	5,996.3	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-3	47 Radio OPS	IDU-3-9	TPLFY008EM140B	Ceiling-Cassette (Four-Way)	8,000	9,000	74.0/61.7	70	FULL DEMAND	6,225.6	5,883.9	FULL DEMAND	5,996.3	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-3	48 TLT & 49 SHW & 50 SHW & 51 TLT	IDU-3-10	TPEFY012MA144A	Ceiling-Concealed (Ducted)	12,000	13,500	74.0/61.7	70	FULL DEMAND	9,338.4	7,524.3	FULL DEMAND	8,994.4	1/4 / 1/2	HIGH	371	0.6/0.6	208/230V/1-phase	2.13/15	1, 2, 3, 4
ODU-4	24 Corridor	IDU-4-1	TPMFY006BM140F	Ceiling Cassette (One-Way)	6,000	6,700	74.0/61.7	70	FULL DEMAND	4,651.3	4,645.6	FULL DEMAND	4,222.7	1/4 / 1/2	HIGH	307		208/230V/1-phase	0.25/15	1, 2, 3, 4
ODU-4	24 Corridor	IDU-4-2	TPMFY006BM140F	Ceiling Cassette (One-Way)	6,000	6,700	74.0/61.7	70	FULL DEMAND	4,651.3	4,645.6	FULL DEMAND	4,222.7	1/4 / 1/2	HIGH	307		208/230V/1-phase	0.25/15	1, 2, 3, 4
ODU-4	23 Corridor	IDU-4-3	TPMFY006BM140F	Ceiling Cassette (One-Way)	6,000	6,700	74.0/61.7	70	FULL DEMAND	4,651.3	4,645.6	FULL DEMAND	4,222.7	1/4 / 1/2	HIGH	307		208/230V/1-phase	0.25/15	1, 2, 3, 4
ODU-4	32 Janitor & 34 Storage & 36 Mens & 37 Women	IDU-4-4	TPEFY012MA144A	Ceiling-Concealed (Ducted)	12,000	13,500	74.0/61.7	70	FULL DEMAND	9,302.7	7,508.5	FULL DEMAND	8,508.3	1/4 / 1/2	HIGH	371	0.6/0.6	208/230V/1-phase	2.13/15	1, 2, 3, 4
ODU-4	33 Dispatch Center	IDU-4-5	TPLFY024EM140B	Ceiling-Cassette (Four-Way)	24,000	27,000	74.0/61.7	70	FULL DEMAND	18,605.4	15,161.4	FULL DEMAND	17,016.7	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/0.54/15	1, 2, 3, 4
ODU-4	33 Dispatch Center	IDU-4-6	TPLFY024EM140B	Ceiling-Cassette (Four-Way)	24,000	27,000	74.0/61.7	70	FULL DEMAND	18,605.4	15,161.4	FULL DEMAND	17,016.7	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/0.54/15	1, 2, 3, 4
ODU-4	33 Dispatch Center	IDU-4-7	TPLFY024EM140B	Ceiling-Cassette (Four-Way)	24,000	27,000	74.0/61.7	70	FULL DEMAND	18,605.4	15,161.4	FULL DEMAND	17,016.7	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/0.54/15	1, 2, 3, 4
ODU-4	33 Dispatch Center	IDU-4-8	TPLFY024EM140B	Ceiling-Cassette (Four-Way)	24,000	27,000	74.0/61.7	70	FULL DEMAND	18,605.4	15,161.4	FULL DEMAND	17,016.7	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/0.54/15	1, 2, 3, 4
ODU-4	40 LEO Conference	IDU-4-9	TPLFY012EM140B	Ceiling-Cassette (Four-Way)	12,000	13,500	74.0/61.7	70	FULL DEMAND	9,302.7	8,853.2	FULL DEMAND	8,508.3	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-4	41 JIC/PIO Conference	IDU-4-10	TPLFY012EM140B	Ceiling-Cassette (Four-Way)	12,000	13,500	74.0/61.7	70	FULL DEMAND	9,302.7	8,853.2	FULL DEMAND	8,508.3	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-4	42 Logistics Conference	IDU-4-11	TPLFY012EM140B	Ceiling-Cassette (Four-Way)	12,000	13,500	74.0/61.7	70	FULL DEMAND	9,302.7	8,853.2	FULL DEMAND	8,508.3	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.39/0.39/15	1, 2, 3, 4
ODU-4	23 Corridor	IDU-4-12	TPMFY006BM140F	Ceiling Cassette (One-Way)	6,000	6,700	74.0/61.7	70	FULL DEMAND	4,651.3	4,645.6	FULL DEMAND	4,222.7	1/4 / 1/2	HIGH	307		208/230V/1-phase	0.25/15	1, 2, 3, 4
ODU-5	30 Classroom	IDU-5-1	TPLFY024EM140B	Ceiling-Cassette (Four-Way)	24,000	27,000	74.0/61.7	70	FULL DEMAND	18,676.9	15,192.7	FULL DEMAND	17,689.5	3/8 / 5/8	HIGH	812		208/230		



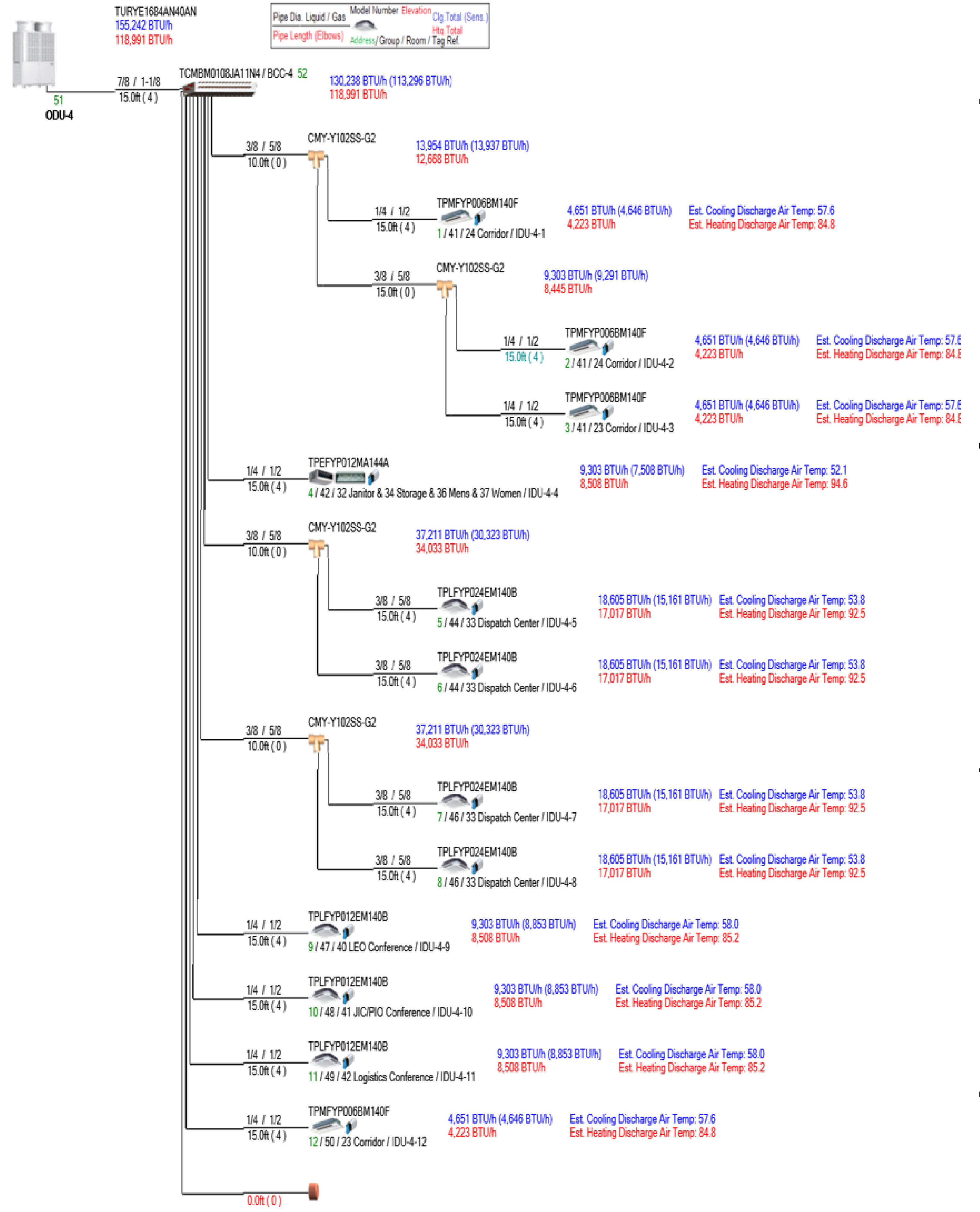
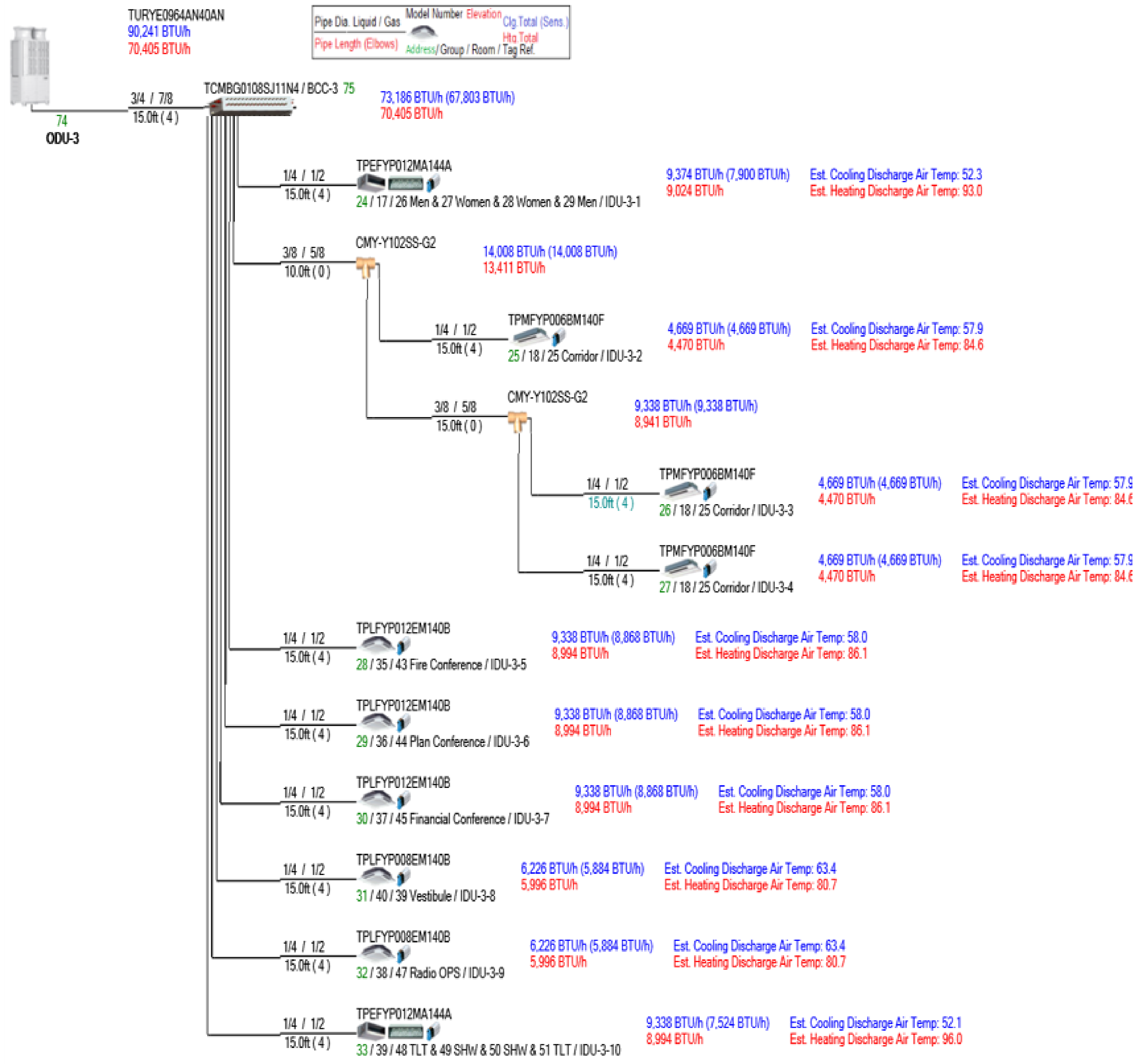
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 FOR:  
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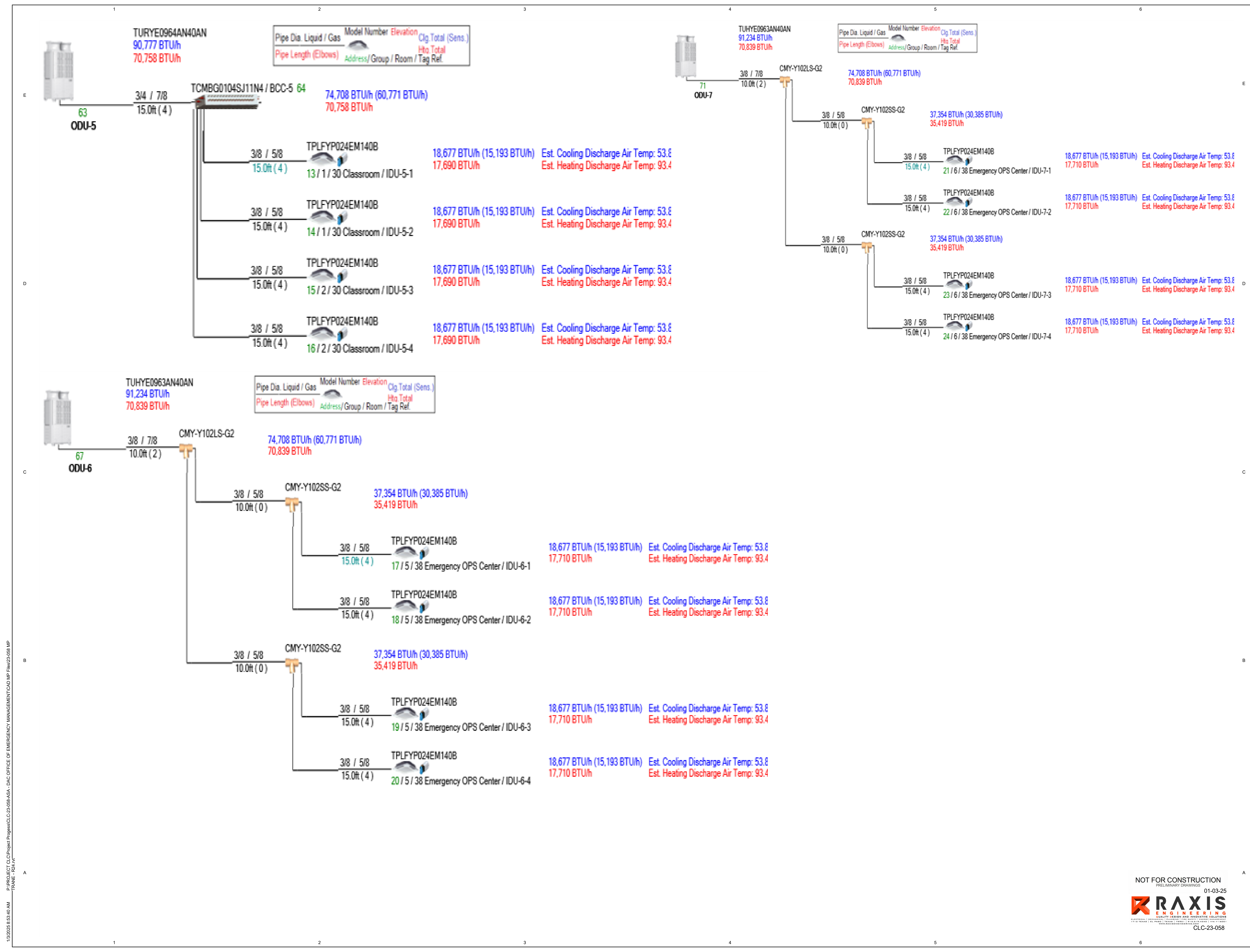
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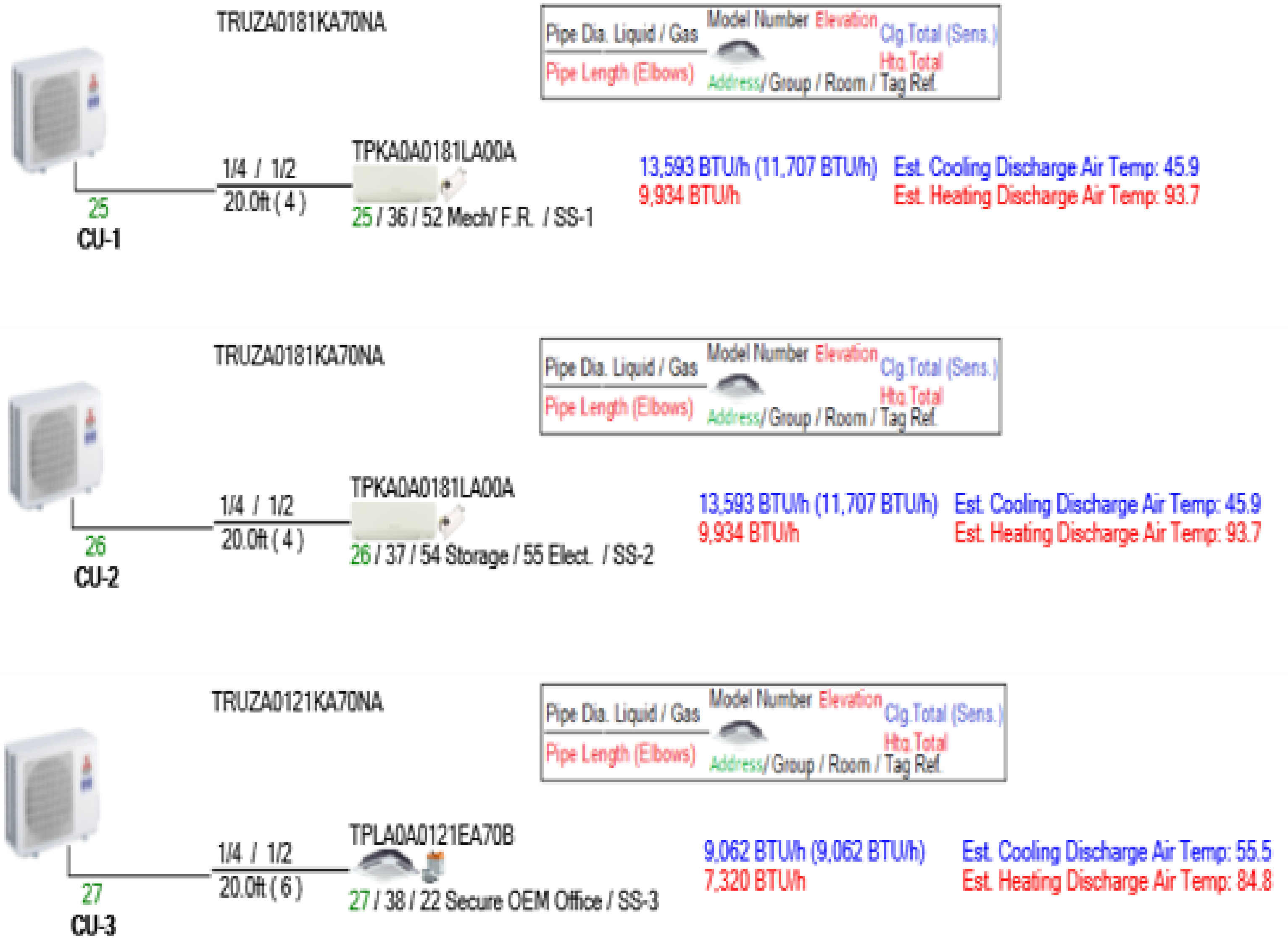
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**PIPING DIAGRAM**  
ODU-5-ODU-7

SHEET NO:  
**M-207**

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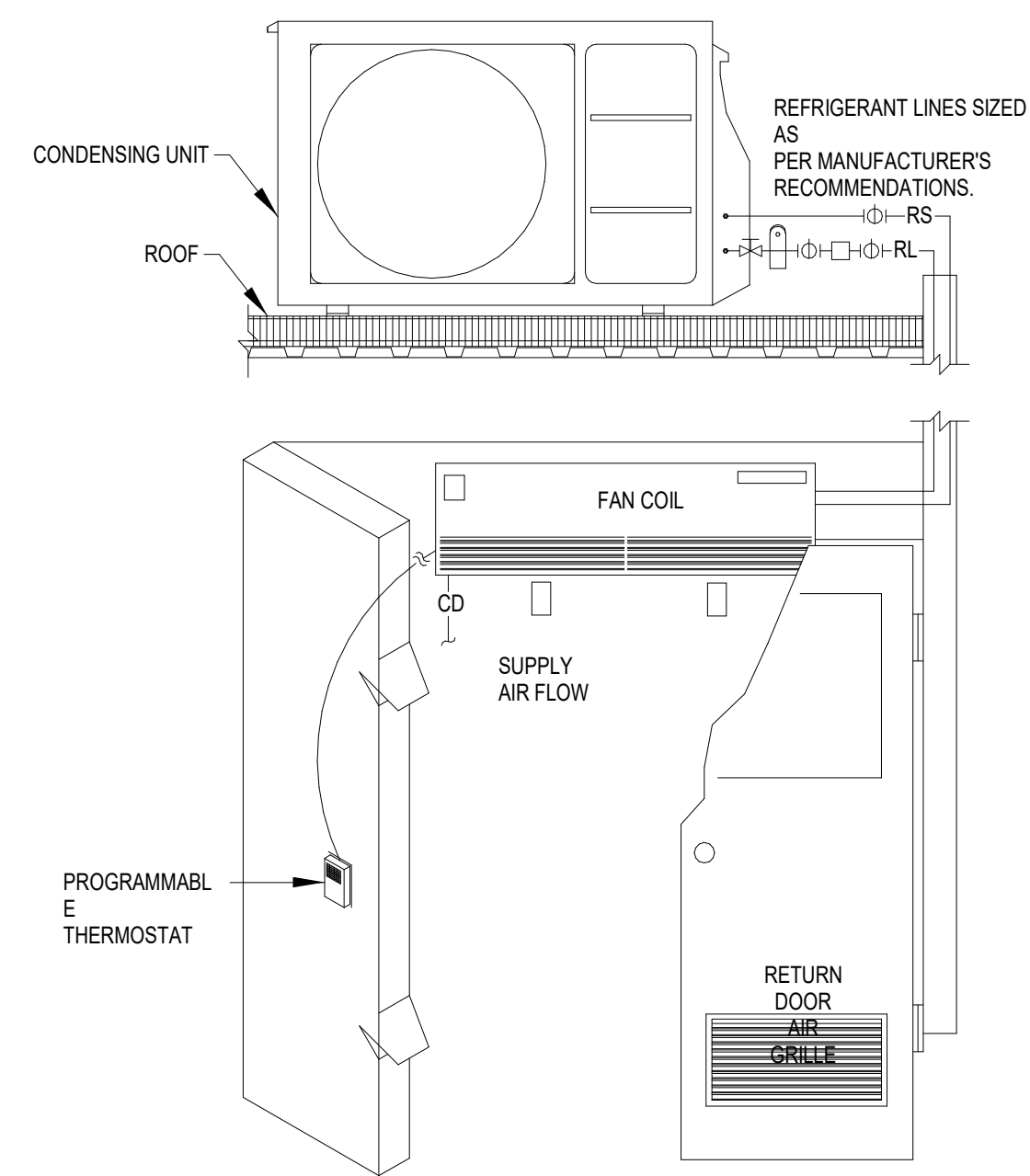
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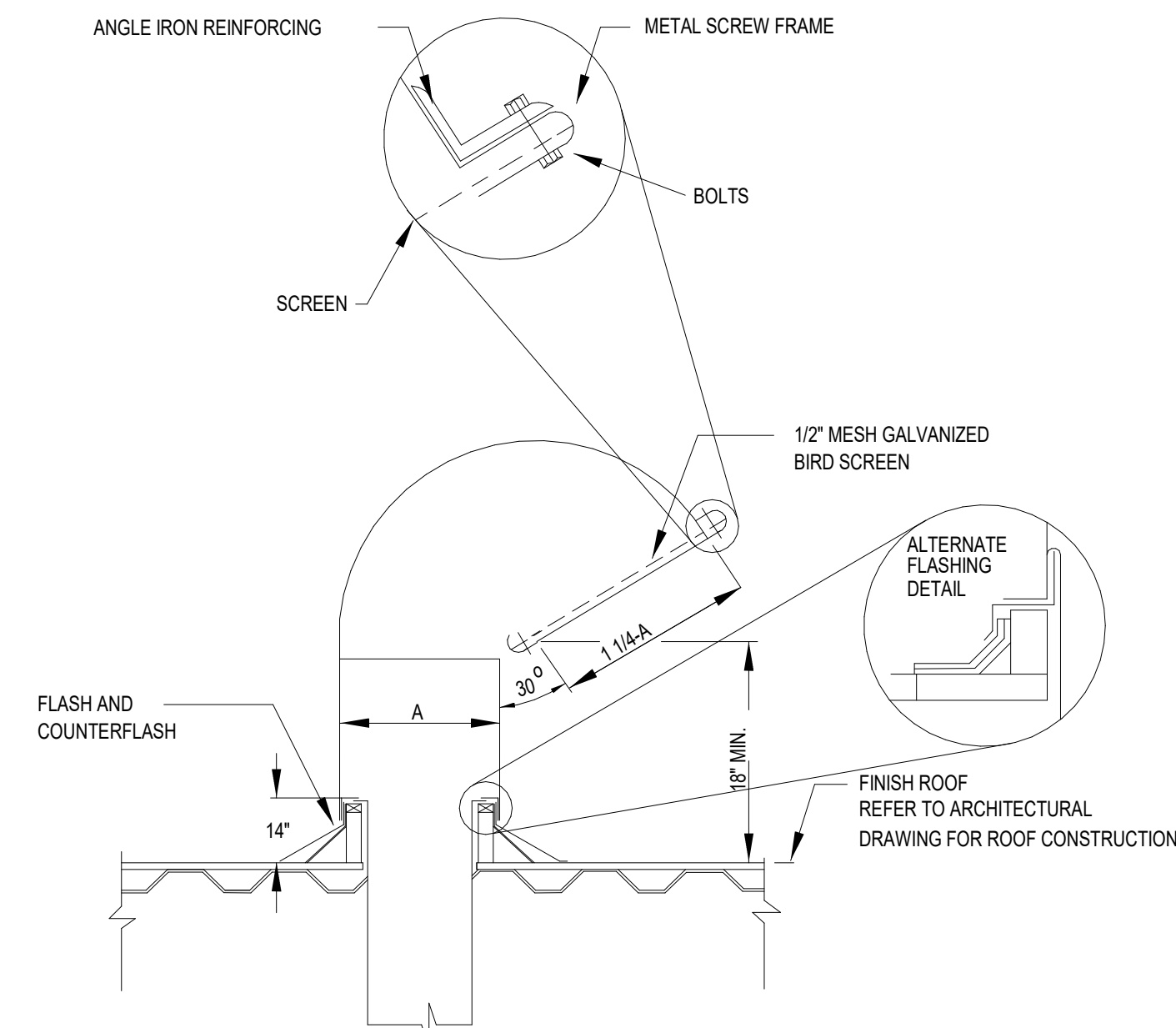
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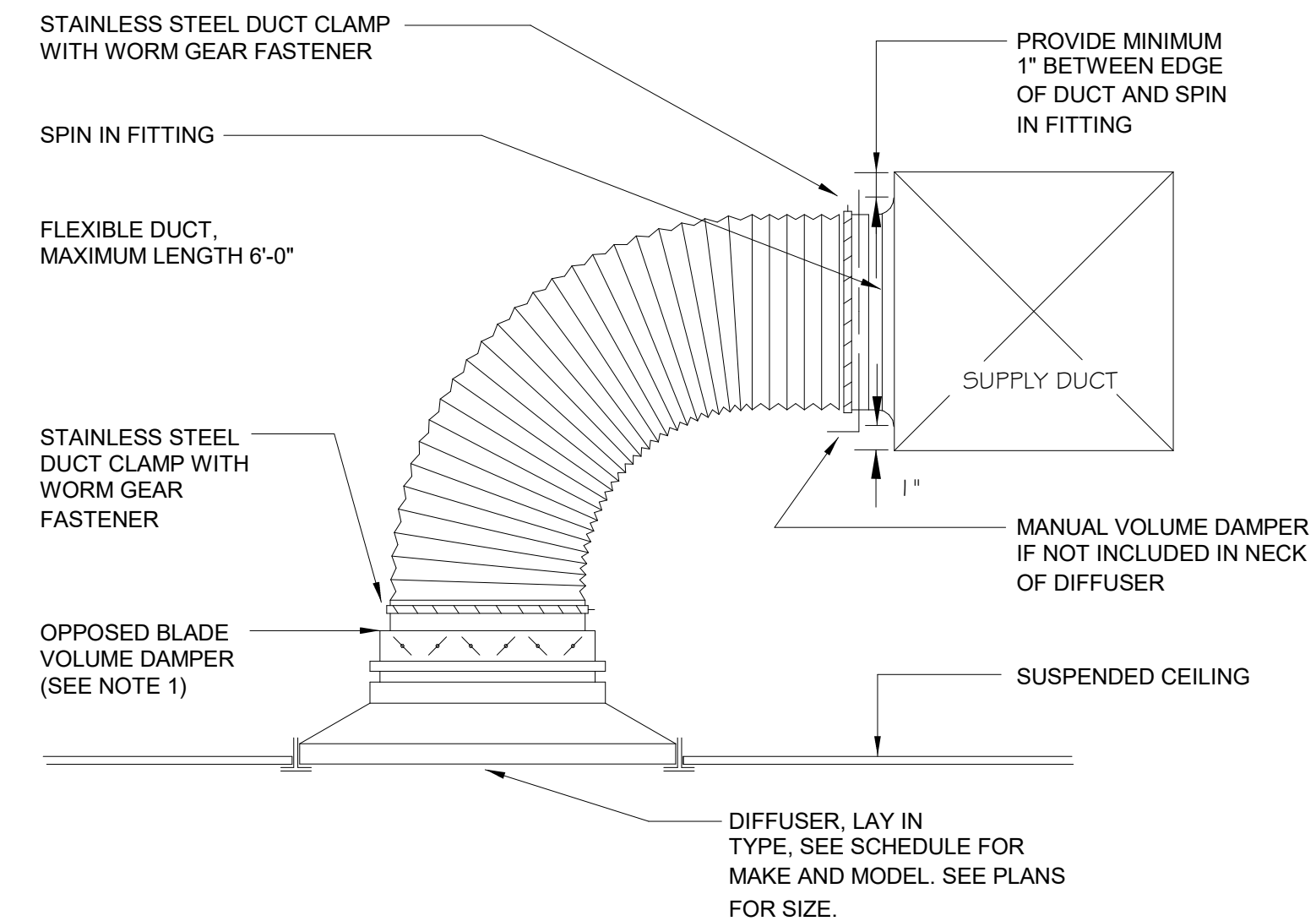




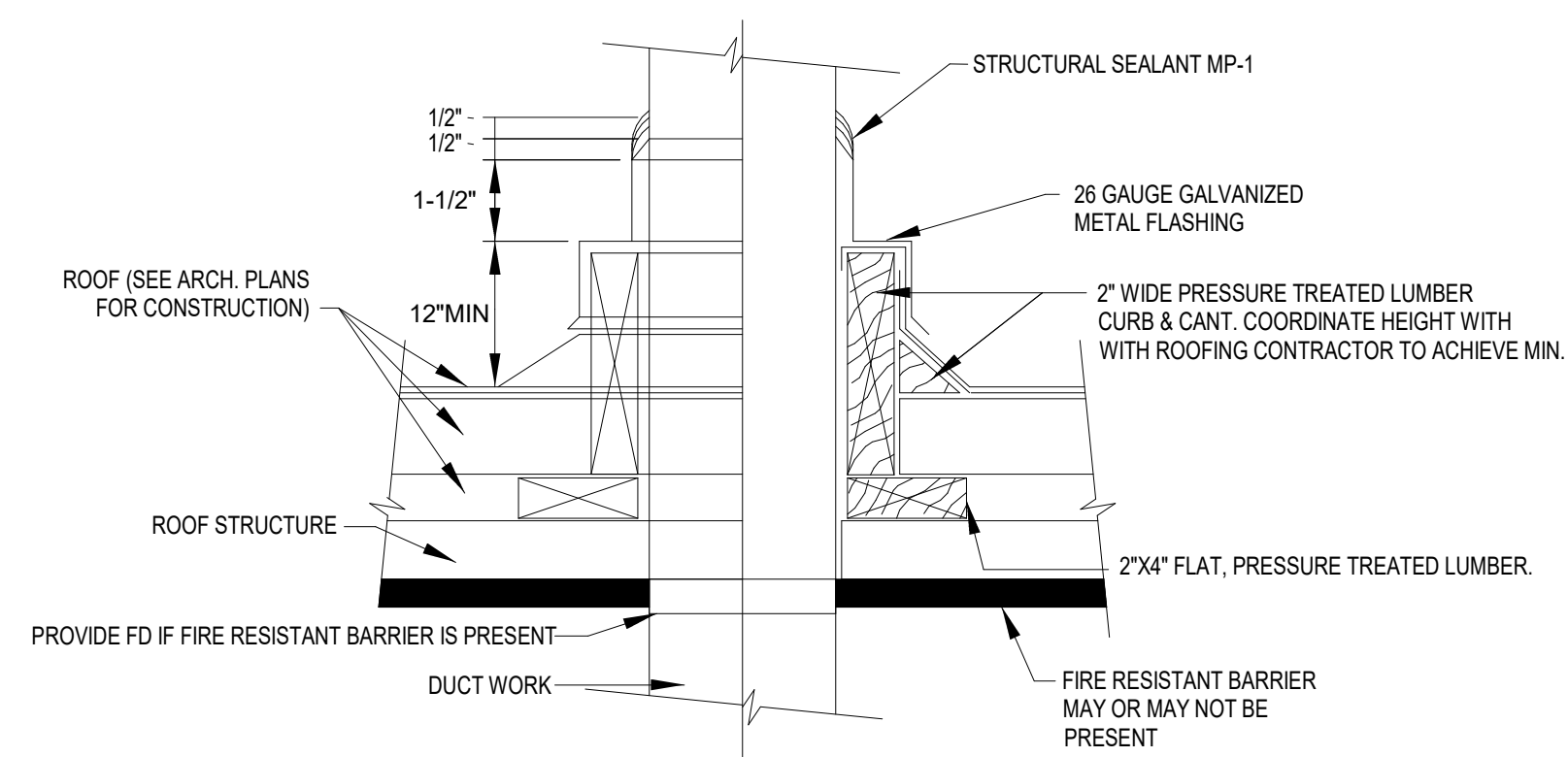
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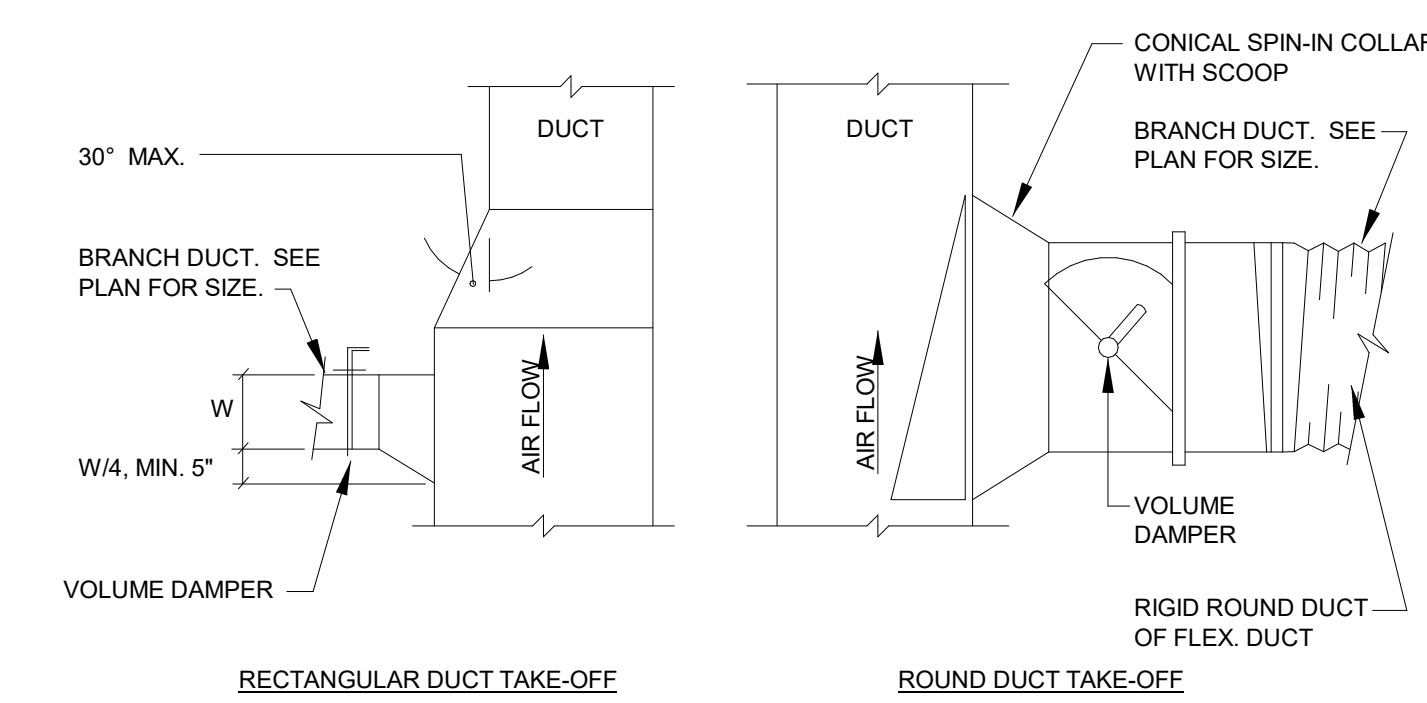
2 GOOSENECK DETAIL  
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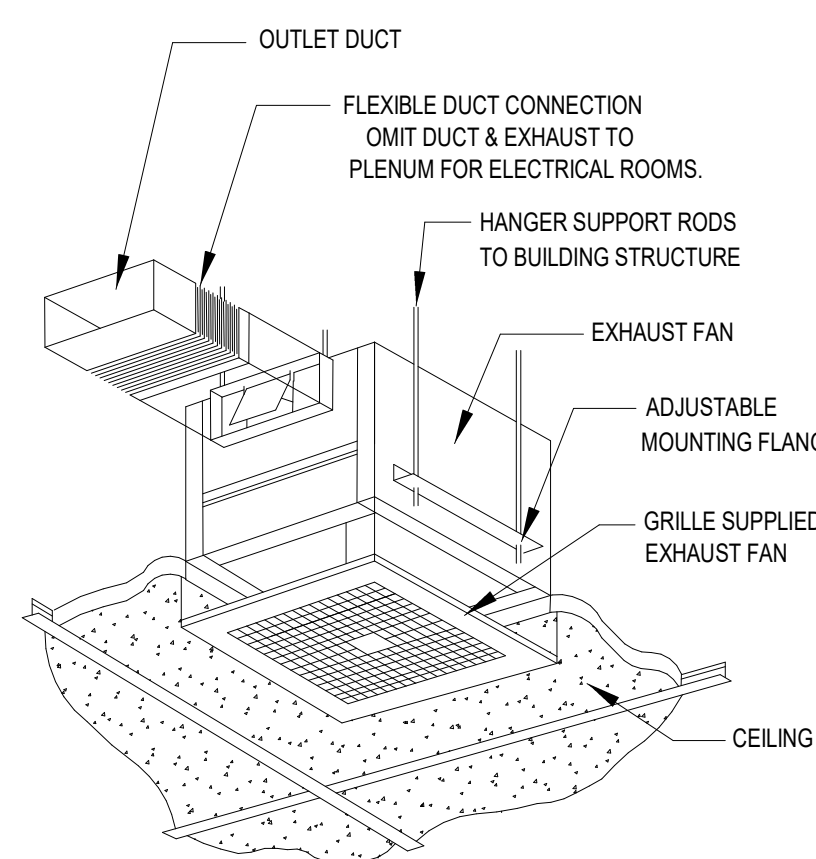
3 CEILING DIFFUSER SCHEMATIC  
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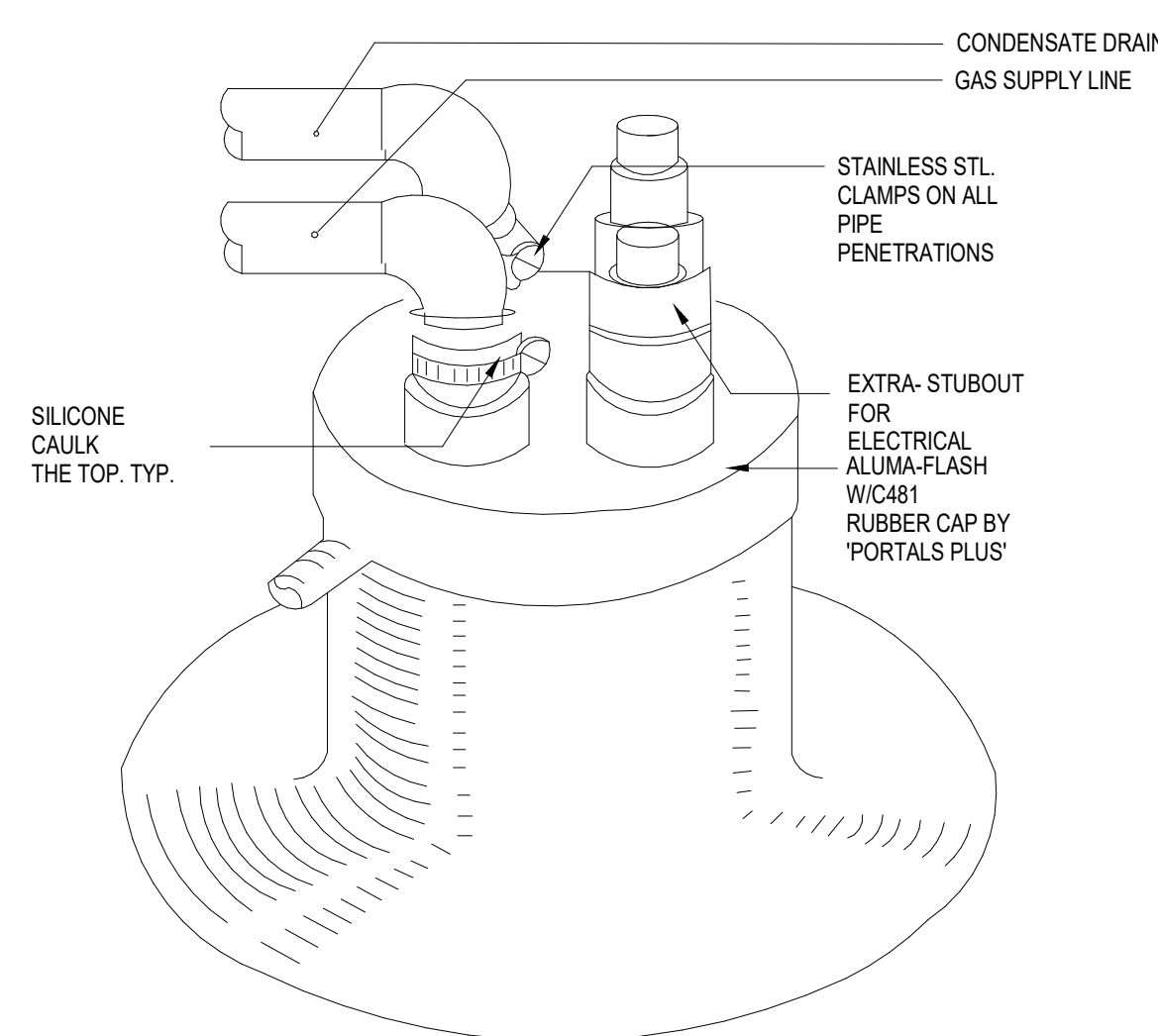
4 DUCT THRU ROOF DETAIL  
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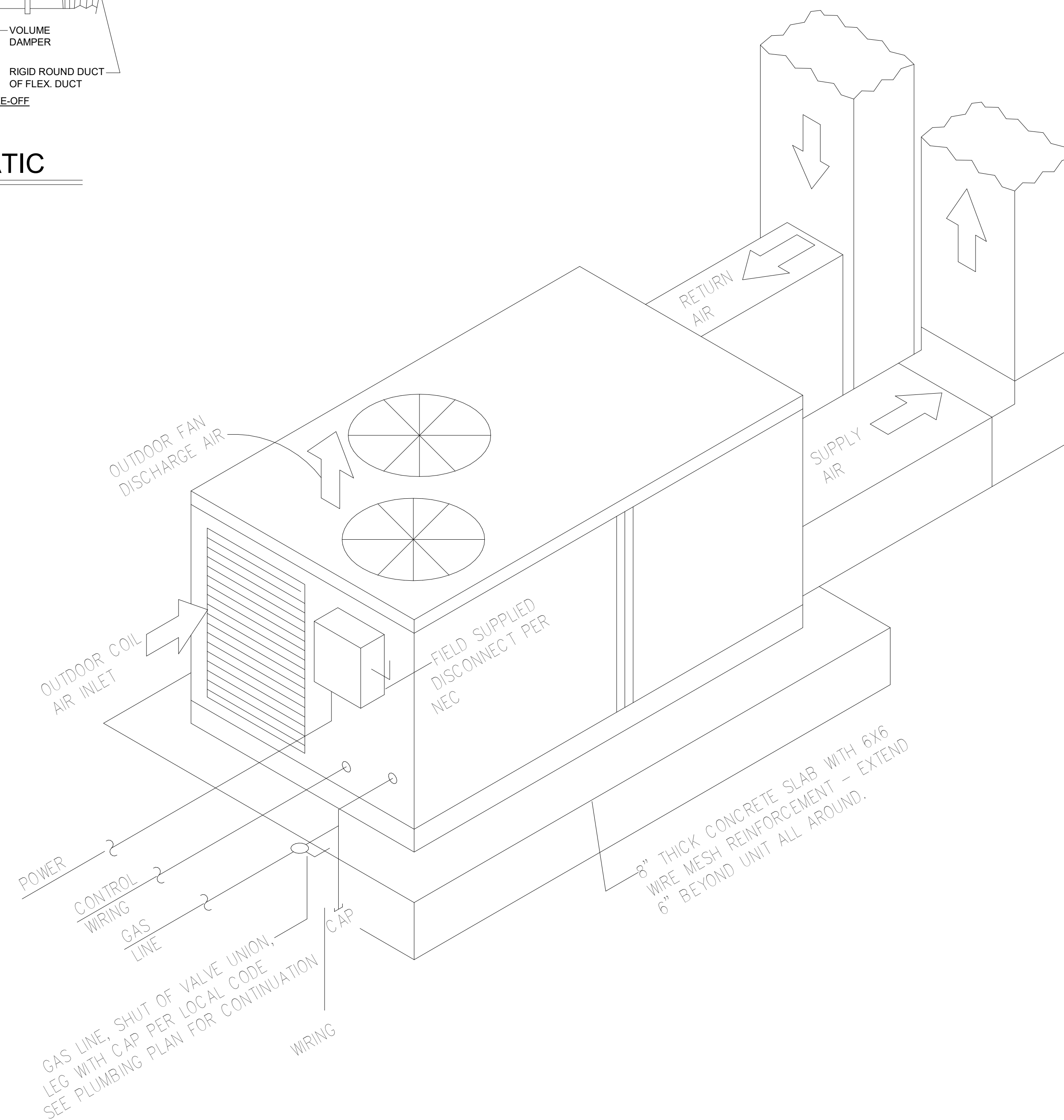
5 DUCT CONNECTION SCHEMATIC  
M300 NOT TO SCALE



6 EXHAUST FAN DETAIL  
M300 NOT TO SCALE



7 PIPE PENETRATION DETAIL  
M300 NOT TO SCALE



8 PACKAGED UNIT MOUNTED AT GRADE  
M300 NOT TO SCALE

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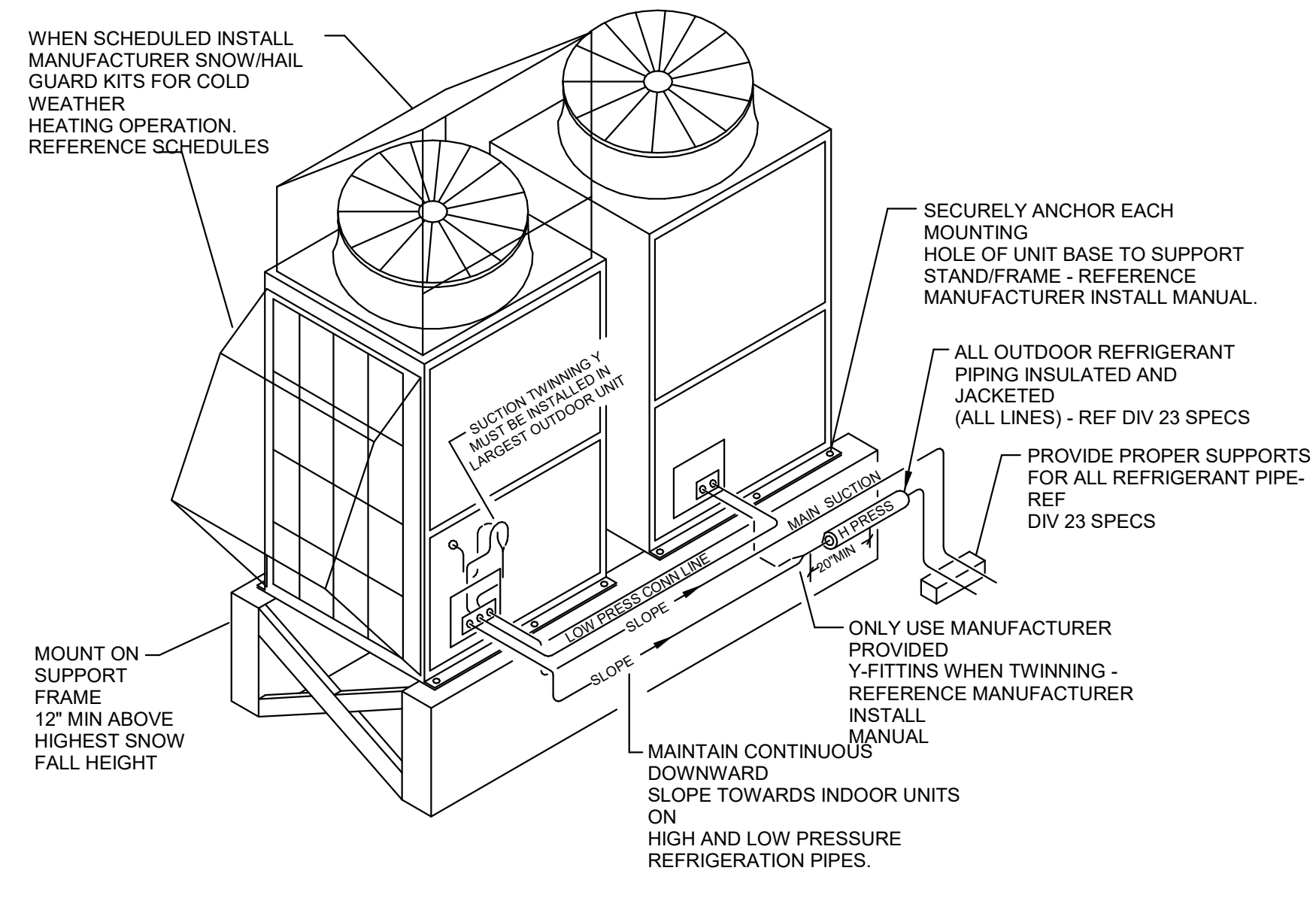
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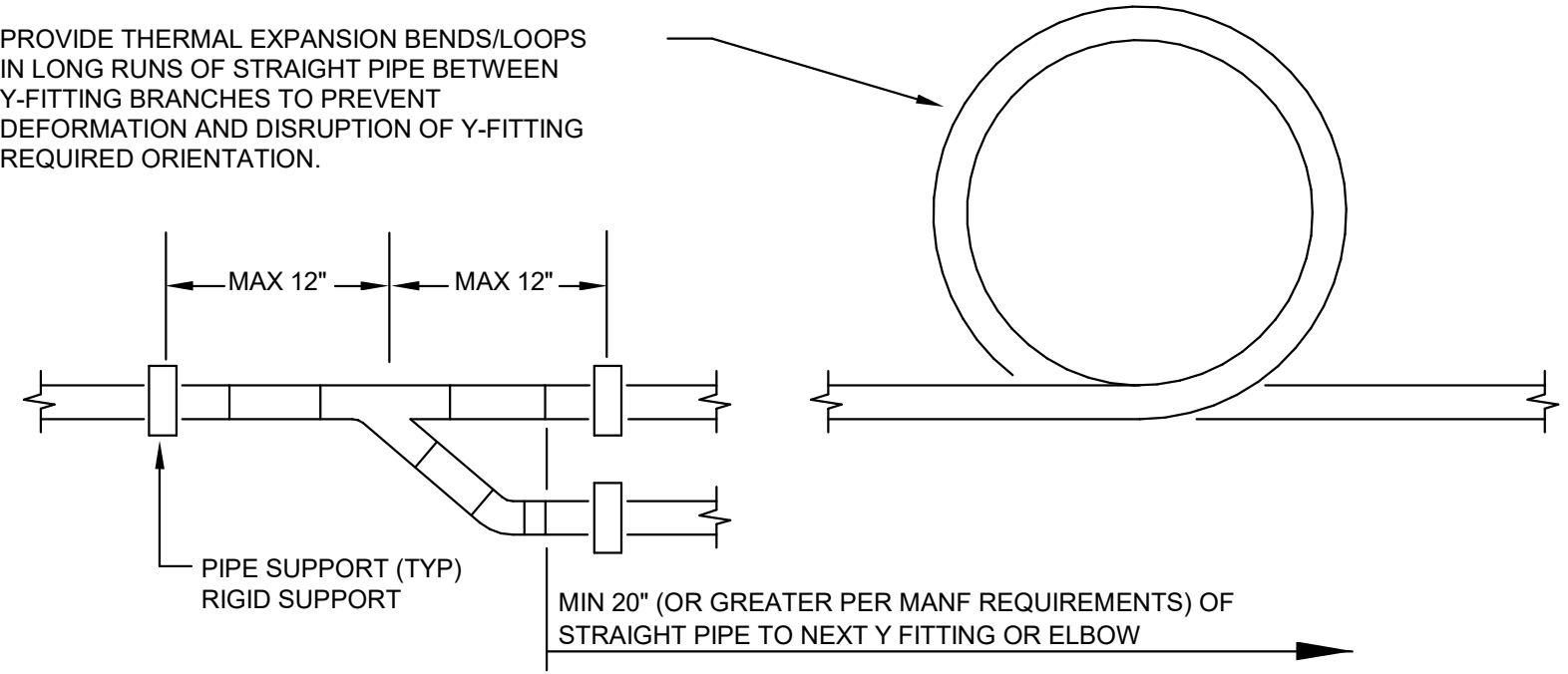
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MECHANICAL  
DETAILS

SHEET NO:  
M-300



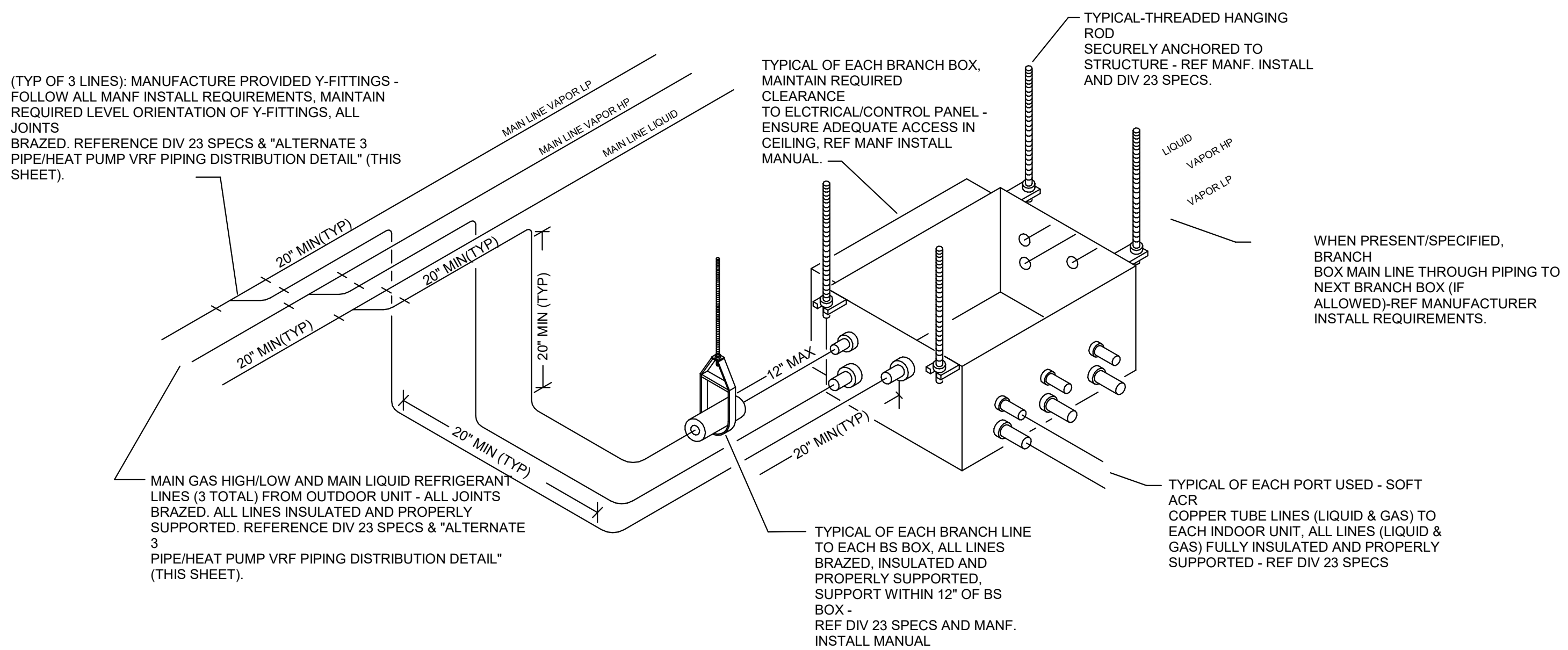
**01: MITSUBISHI VRF OUTDOOR HEAT RECOVERY R2 OLD MODEL (J, K, L GEN) TWINNED DETAIL**



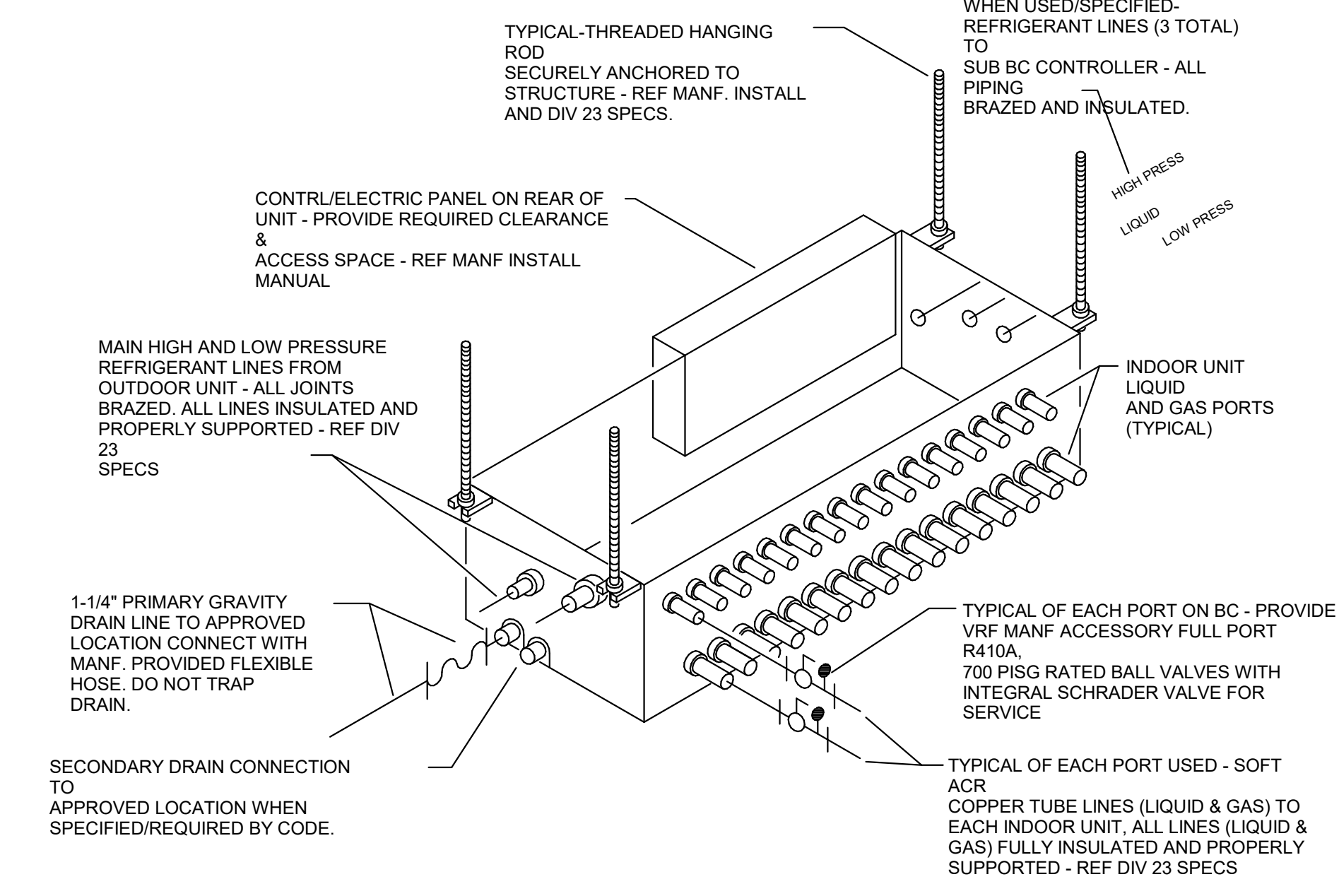
**02: PIPE/HEAT PUMP VRF PIPING DISTRIBUTION REQUIREMENTS**

**RIGHT: VERTICAL ORIENTATION RESTRICTIONS**

- ADDITIONAL PIPING DISTRIBUTION NOTES:**
- 90 DEG ELBOWS TO BE KEPT 20" FROM FAN COILS AND BS BOXES (OR GREATER PER MANF REQUIREMENTS)
  - 90 DEG ELBOWS SHOULD BE KEPT 20" FROM Y-FITTINGS AND HEADERS (OR GREATER PER MANF REQUIREMENTS)
  - ALL PIPING TO BE SUPPORTED WITHIN 12" OF FAN COILS, BS BOXES, AND CONDENSERS.

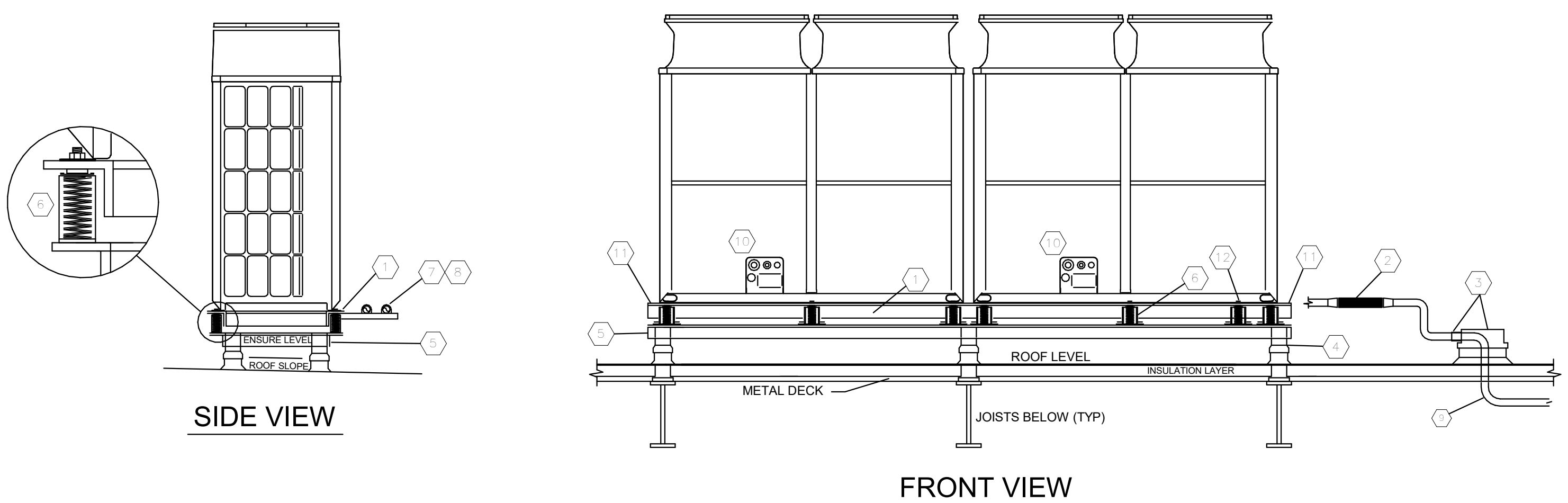


**03: PIPE VRF BRANCH BOX DETAIL**

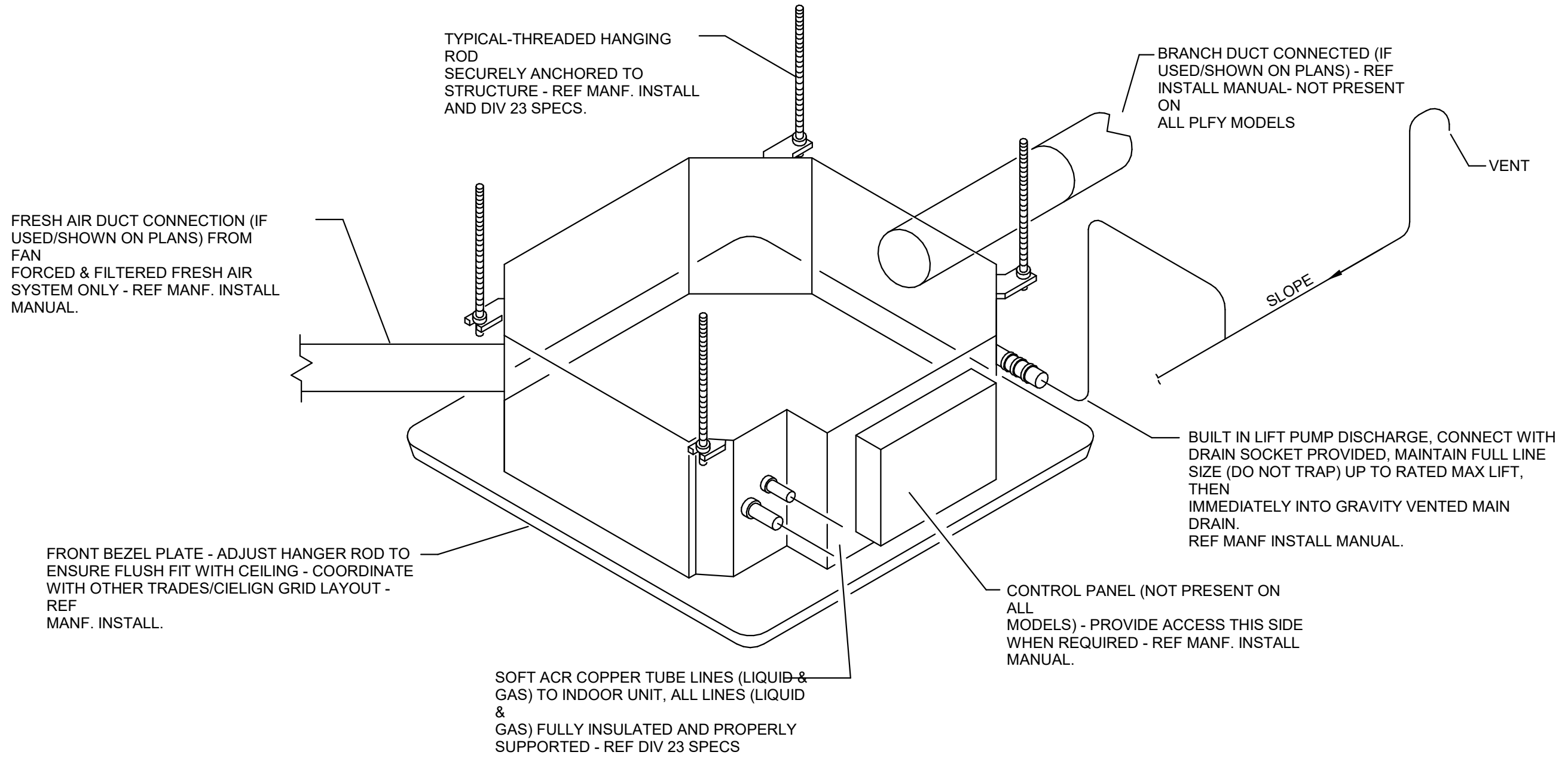


**04: MITSUBISHI VRF R2 HEAT RECOVERY BRACH CIRCUIT (BC) CONTROLLER DETAIL**

**DISCLAIMER:**  
THIS DRAWING IS SCHEMATIC IN NATURE, INTENDED TO REFLECT TYPE OF CONSIDERATION THAT SHOULD BE GIVEN TO INSTALLING VRF OUTDOOR UNIT EQUIPMENT ON LIGHT BUILT UP CORRUGATED METAL DECK ROOFING SYSTEM. FINAL DESIGN AND SELECTION OF ALL SUPPORT AND VIBRATION ISOLATION EQUIPMENT SHOULD BE BY DESIGN ENGINEER OF RECORD AND/OR STRUCTURAL ENGINEER OF RECORD.



**05: ROOF LEVEL VRF VIBRATION ISOLATION SAMPLE DETAIL**



**06: MITSUBISHI VRF CASSETTE INDOOR UNIT (PLFY) DETAIL**

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**VRF MECHANICAL DETAILS**

SHEET NO: **M-301**

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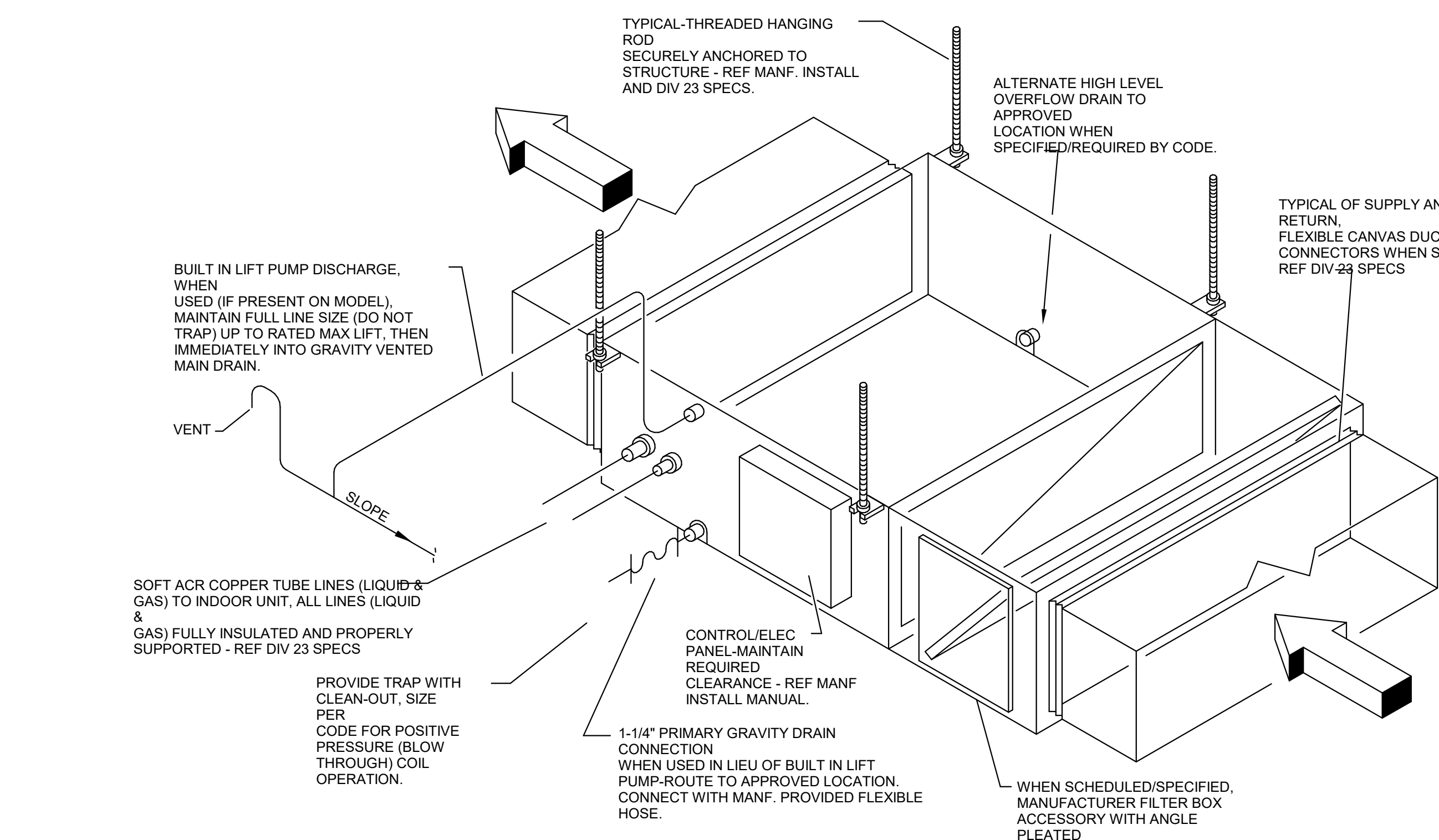
VRF MECHANICAL  
DETAILS 2

SHEET NO:  
M-302

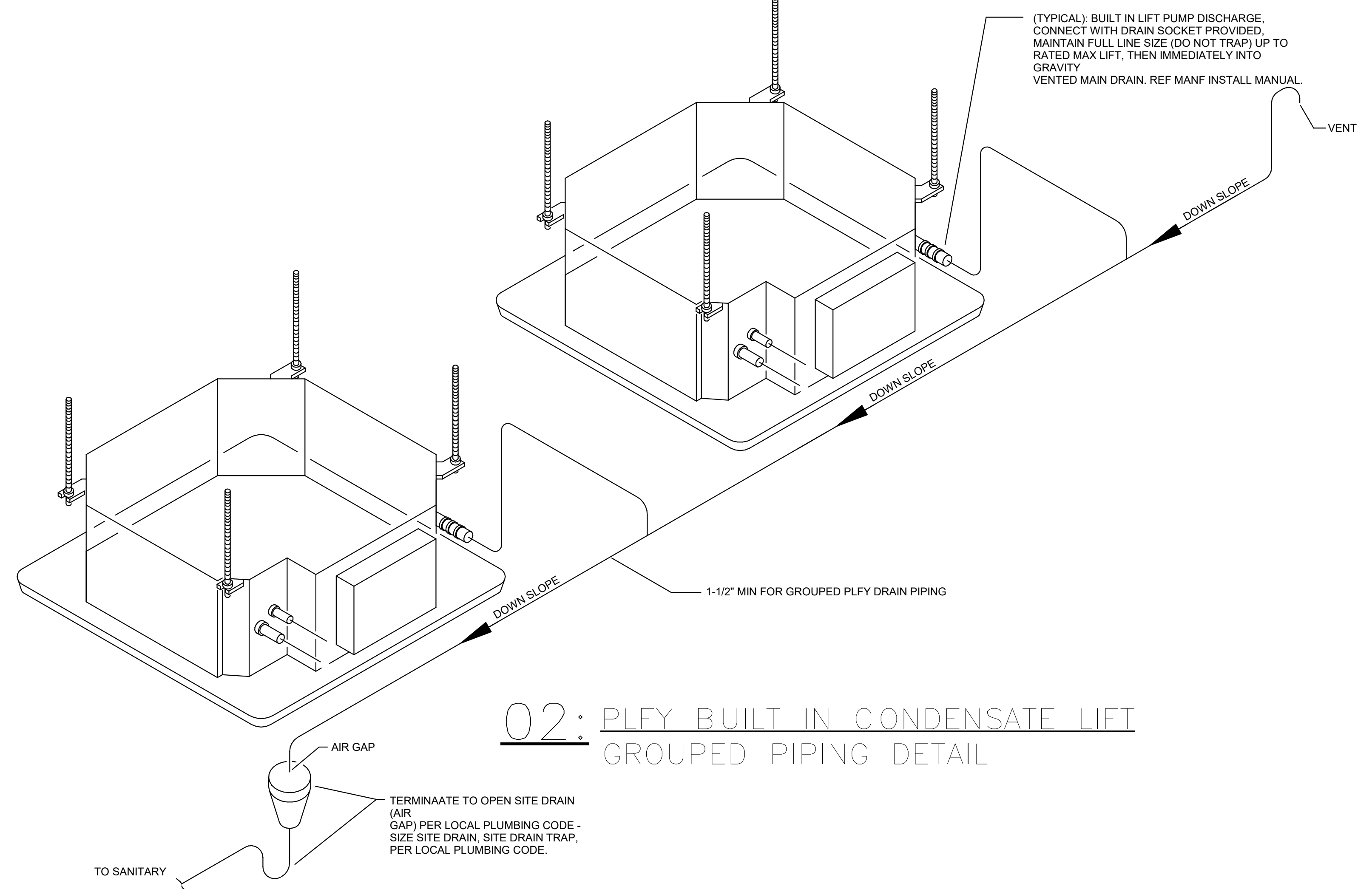
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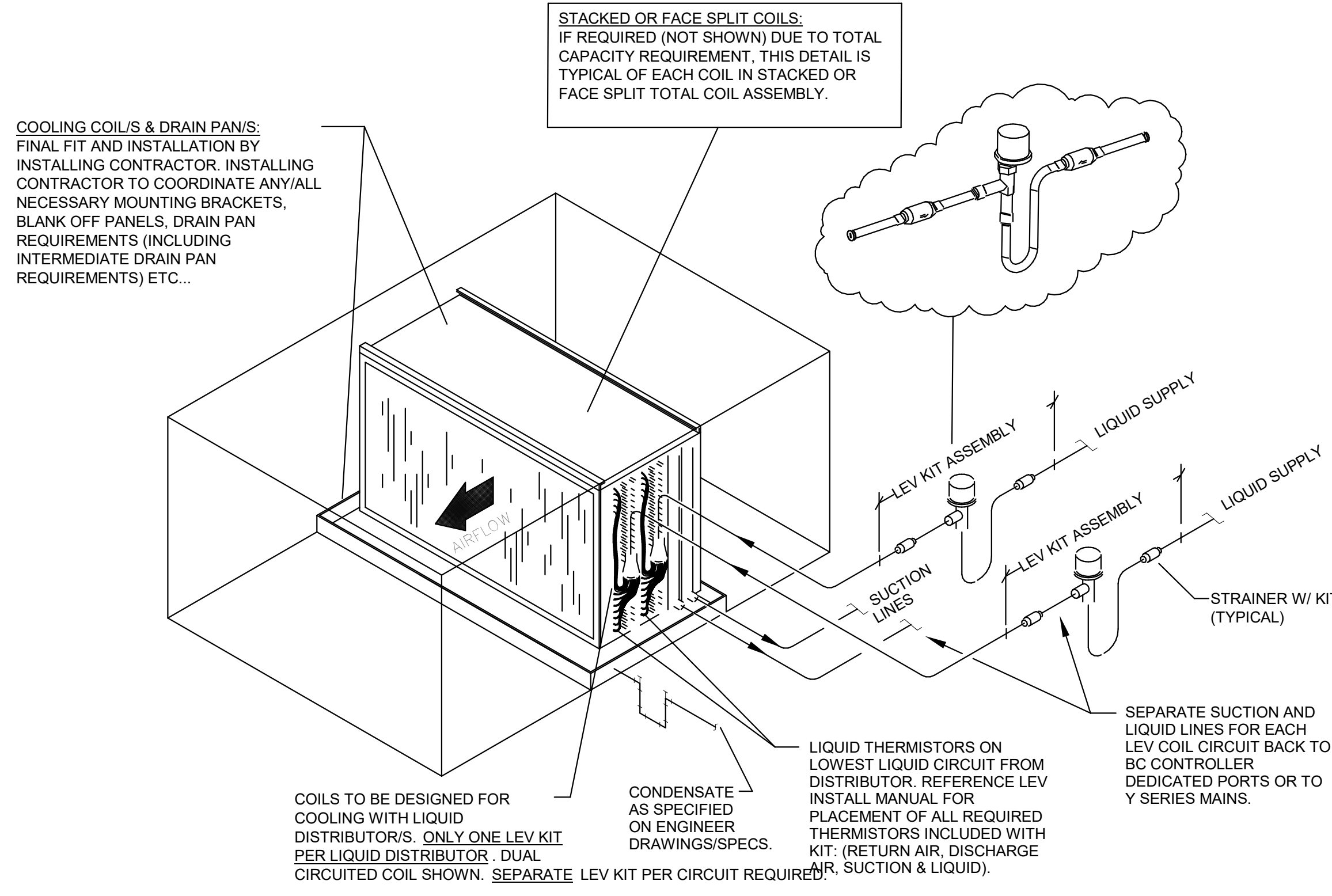
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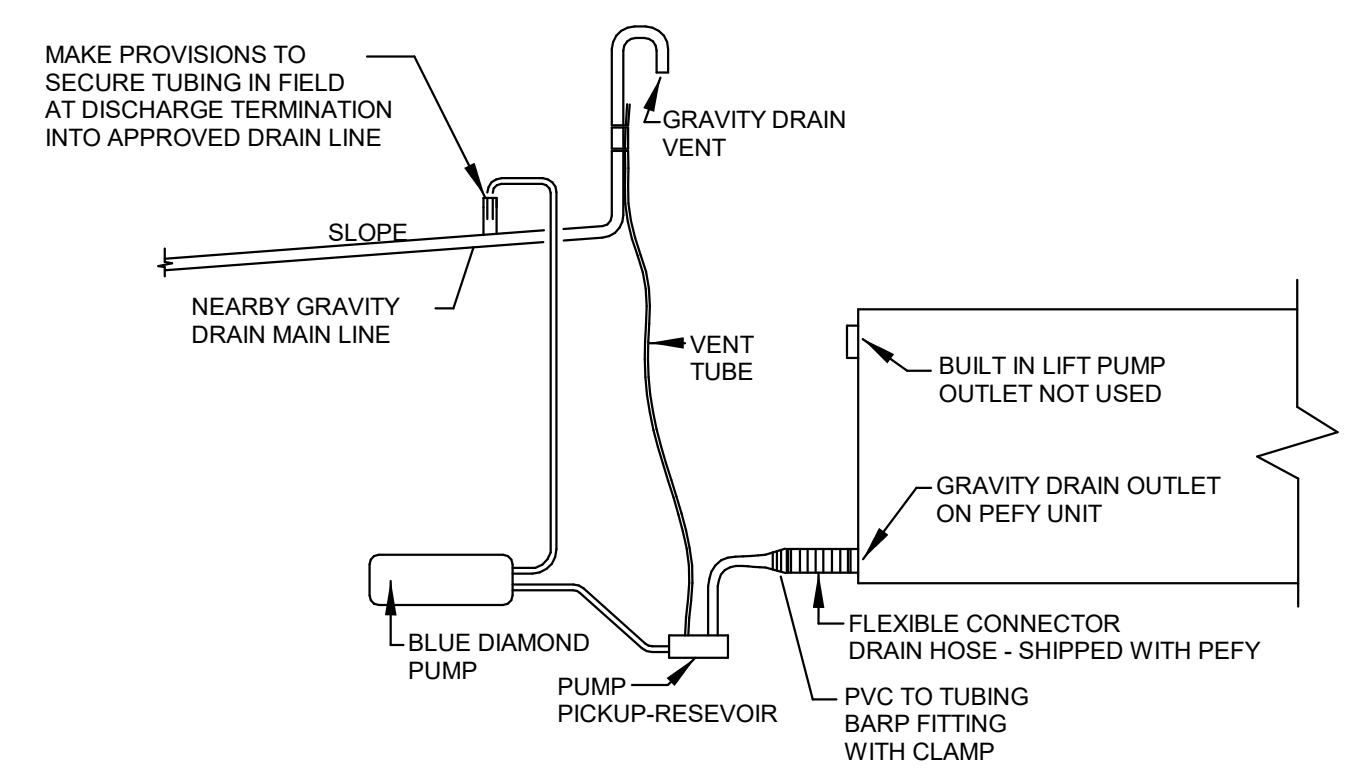
**01: MITSUBISHI VRF DUCTED INDOOR UNIT (PEFY FAMILY) DETAIL**



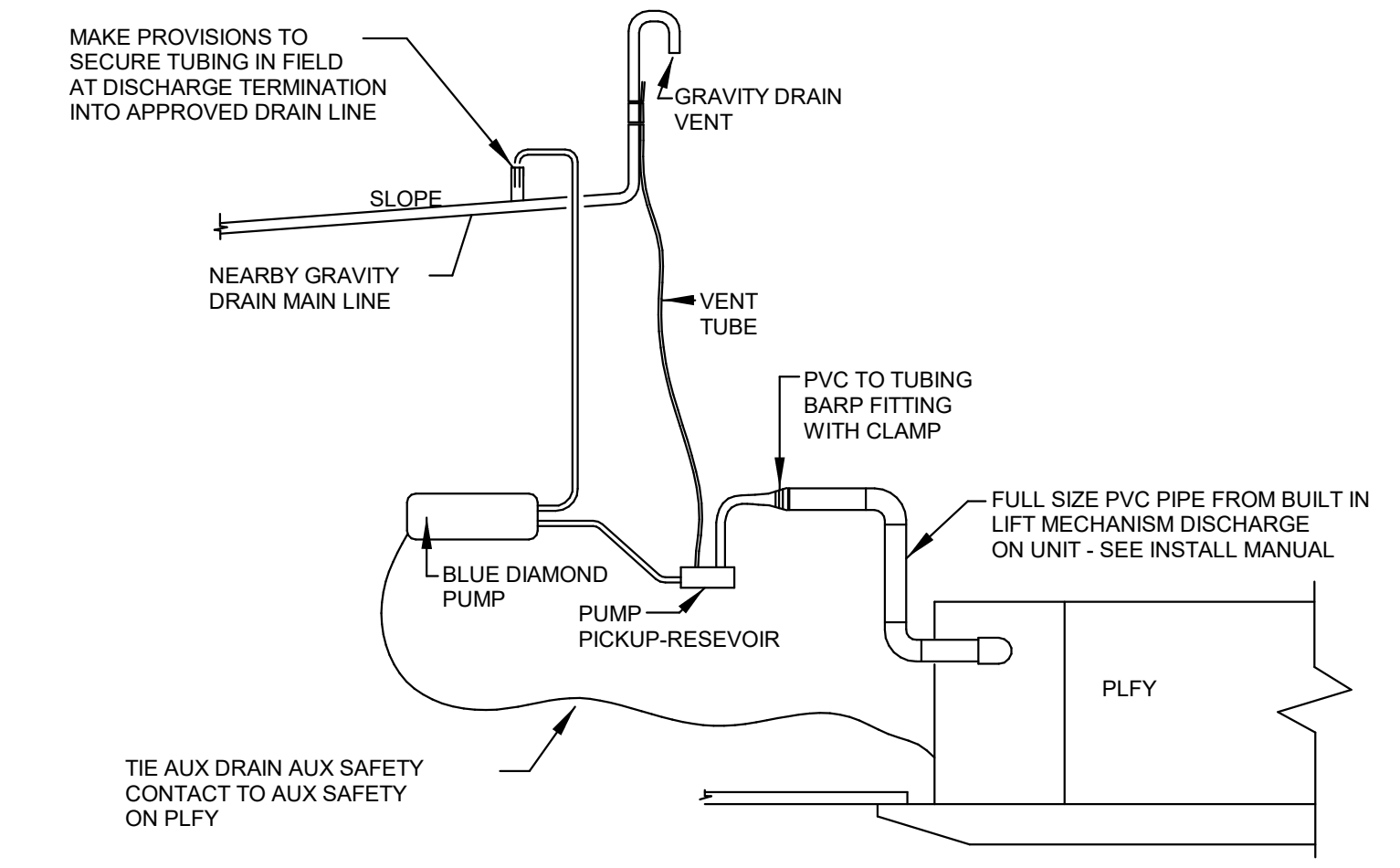
**02: PLY BUILT IN CONDENSATE LIFT GROUPED PIPING DETAIL**



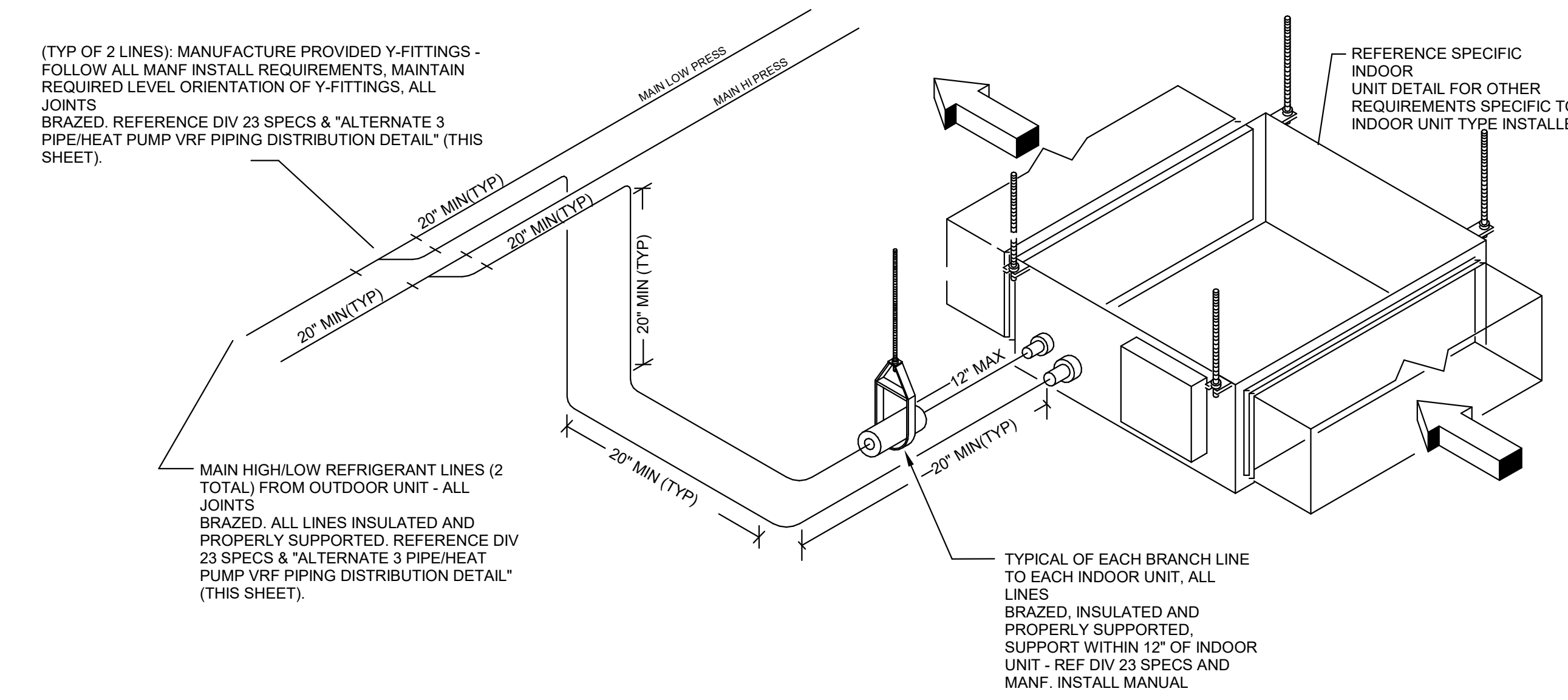
**03: LEV KIT COIL PIPING DETAIL - DUAL CIRCUIT (TYPICAL OF EACH COIL IF MULTIPLE PRESENT)**



**04: BLUE DIAMOND PUMP ON PEFY DUCTED**



**05: BLUE DIAMOND PUMP ON PLY**



**06: ALTERNATE HEAT PUMP BRANCH CONNECTION DETAIL (TO INDOOR UNIT)**

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# PLUMBING SYMBOLS AND ABBREVIATIONS

[SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT]

## GENERAL PIPING SYMBOLS

SYMBOL	DESCRIPTION
	90 DEGREE ELBOW
	FLANGE CONNECTION
	CAP
	BLIND FLANGE
	PLUMBING FIXTURE & DESIGNATION SEE FIXTURE CONNECTION SCHEDULE
	PLAN/DETAIL NUMBER SHEET NUMBER
	PIPE DROP
	PIPE RISE
	TEE FITTING - SIDE BRANCH CONNECTION
	TEE FITTING - BOTTOM BRANCH CONNECTION
	TEE FITTING - TOP BRANCH CONNECTION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	BALL JOINT
	EXPANSION JOINT
	FLEXIBLE CONNECTION (PIPE)
	FLOW DIRECTION
	PIPE ANCHOR
	PIPING GUIDE
	NEW CONNECTION TO EXISTING
	FIRE HYDRANT
	GAS PRESSURE REGULATOR
	GAS METER
	WATER METER
	THERMOMETER

## GENERAL PIPING SYMBOLS - VALVES

SYMBOL	DESCRIPTION
	VALVE IN BOX
	BALL VALVE
	CHECK VALVE
	GATE VALVE
	PRESSURE & TEMP. RELIEF VALVE
	PETE'S PLUG (TYPICAL)
	REDUCED PRESSURE BACK FLOW PREVENTER (RPBP)
	PRESSURE REDUCING VALVE

## PLUMBING ABBREVIATIONS

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
ABV	ABOVE	ID	INSIDE DIMENSION
AC	ABOVE CEILING	IE	INVERT ELEVATION (FLOW LINE)
AD	ACCESS DOOR	IN	INCHES
AFF	ABOVE FINISHED FLOOR	INSUL	INSULATION
AP	ACCESS PANEL	IN WG	INCHES OF WATER
APPROX	APPROXIMATE	KW	KILOWATT(S)
ARCH	ARCHITECTURAL	L	LONG LENGTH
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	L-F	LAVATORY - REF. PLUMB. FIXT. SCHEDULE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	LB	POUND
AV	ACID VENT	MAX	MAXIMUM
AW	ACID WASTE	MECH	MECHANICAL
BHP	BRAKE HORSEPOWER	MIN	MINIMUM
BLDG	BUILDING	MS	MOTOR STARTER
BOF	BOTTOM OF PIPE	MTD	MOUNTED
BSMT	BASEMENT	NA	NOT APPLICABLE
BTU	BRITISH THERMAL UNIT	NIC	NOT IN CONTRACT
BW-#	BACKWATER VALVE	NTS	NOT TO SCALE
CA	COMPRESSED AIR	OC	ON CENTER
CC	CENTER TO CENTER	OH	OVERHEAD
CAP.	CAPACITY	PCT	PERCENT
CD	CONDENSATE	PLBG	PLUMBING
CDP	CONDENSATE DRAIN PUMP	PRESS	PRESSURE
CI	CAST IRON	PRV	PRESSURE REDUCING VALVE
CLG	CEILING	PSIG	POUNDS PER SQUARE INCH (GAUGE)
CO	CLEANOUT	PVC	POLYVINYL CHLORIDE
CONN	CONNECTION	PW-#	PRESSURE WASHER - REF. PLUMB. FIXT. SCHED.
CONT	CONTINUATION	RD	ROOF DRAIN
CW	COLD WATER	REF. 4/P-500	REFER TO DETAIL 4, SHEET P-500
Q	CENTER LINE	REQD	REQUIRED
D	DRAIN	RPBP-#	REDUCED PRESSURE BACKFLOW PREVENTER
DCO	DOUBLE CLEANOUT	S-#	SINK - REF. PLUMB. FIXT. SCHEDULE
DIA	DIAMETER	SCHED.	SCHEDULE
DN	DOWN	SD	STORM DRAIN
DN-F	DOWNSPOUT NOZZLE	SEC	SECOND
DWG	DRAWING	SH-#	SHOWER HEAD - REF. PLUMB. FIXT. SCHED.
EA	EACH	SPEC	SPECIFICATION
EQ	EQUAL	SP	SUMP PUMP
EQUIP	EQUIPMENT	SR	SECONDARY ROOF DRAIN
EXIST	EXISTING	SS	SERVICE SINK/MOP SINK
3" FD-1	3" FLOOR DRAIN TYPE 1	STD	STANDARD
F	DEGREES FAHRENHEIT	STL	STEEL
FOO	FLOOR CLEANOUT	SW	SWITCH
FIXT	FIXTURE	TEMP	TEMPERATURE
FF	FINISHED FLOOR	TP-#	TRAP PRIMER - REF. PLUMB. FIXT. SCHED.
FG	FINISHED GRADE	TYP	TYPICAL
FLG	FLANGE	U-#	URINAL - REF. PLUMB. FIXT. SCHED.
FLR	FLOOR	UF	UNDER FLOOR
FM	FACTORY MUTUAL	UG	UNDER GROUND
FPM	FEET PER MINUTE	UL	UNDERWRITERS LABORATORIES
FT	FEET, FOOT	UTIL	UTILITY
FS	FLOOR SINK	VB	VALVE BOX
GA	GALUZE	VCP	VITRIFIED CLAY PIPE
GAL	GALLON	VEL	VELOCITY
GALV	GALVANIZED	VOL	VOLUME
GCO	GROUND CLEANOUT	VOLT	VOLTAGE
GPH	GALLONS PER HOUR	VTR	VENT THRU ROOF
GPM	GALLONS PER MINUTE	W	WIDE, WIDTH
GW	GREASE WASTE	WB-#	WASHER BOX - REF. PLUMB. FIXT. SCHED.
GV	GREASE VENT	WD-#	WATER DEVICE - REF. PLUMB. FIXT. SCHED.
H	HIGH, HEIGHT	WI	WITH
HB-#	HOSE BIBB - REF. PLUMB. FIXT. SCHED.	W/O	WITHOUT
HP	HORSEPOWER	WC-#	WATER CLOSET - REF. PLUMB. FIXT. SCHED.
HR	HOUR	WCO	WALL CLEANOUT
HTR	HEATER	WD-#	WATERING DEVICE - REF. PLUMB. FIXT. SCHEDULE
HWRP	HOT WATER RECIRCULATING PUMP	WH-#	WATER HEATER - REF. PLUMB. FIXT. SCHED.
HZ	HERTZ	WS-#	WATER SOFTENER - REF. SPECIFICATIONS
		WTD-#	WIDE TRENCH DRAIN - REF. PLUMB. FIXT. SCHED.
		WTR	WATER

## PLUMBING GENERAL NOTES

- NOTE: FOR THE PURPOSE OF CLARITY AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGNOSTIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHERE POSSIBLE, THE CONTRACTOR SHALL HAVE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
- THE PLUMBING SYSTEMS, INCLUDING MATERIALS AND METHODS OF INSTALLATION, SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
- PLUMBING QUALITY: HEIGHTS OF MATERIALS AND ALTERNATE METHODS OF CONNECTION SHALL CONFORM TO THE APPLICABLE PLUMBING CODES, WITH LOCAL JURISDICTION CODE AMENDMENTS.
- CONTRACTOR SHALL COORDINATE WITH UTILITY SERVICES FOR THE NEW STRUCTURE.
- CONTRACTOR SHALL VERIFY PRIOR TO SUBMITTAL OF BID ALL EXISTING CONDITIONS INCLUDE IN BID THE LOCATION OF ALL EXISTING UTILITIES THAT WILL OBSTRUCT NEW CONSTRUCTION. INCLUDE BID ALL DEVELOPMENT FEES, DEPOSITS MEASURING DEVICE FEES, AND ALL OTHER FEES RELATED TO THE ESTABLISHMENT OF UTILITY SERVICES FOR THE NEW STRUCTURE.
- CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL FEES, CHARGES, PERMITS AND DELAYS.
- THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND LABOR INCLUDING THE COMPLETE PLUMBING SYSTEM FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE TENDER. ANY DEFECTS IN MATERIALS AND/OR LABOR FOUND WITHIN THE GUARANTEE PERIOD SHALL BE REMEDIATED OR REPAIRED BY THIS CONTRACTOR IN A TIMELY MANNER, AT NO COST TO THE TENDER.
- CONTRACTOR TO FIELD VERIFY ELEVATION OF EXISTING GREASE WASTE AND SANITARY SEWER BEFORE COMMENCING ANY WORK.
- ALL PLUMBING FIXTURES, LOCATIONS (WATER CLOSET, LAVATORIES, ETC.) ARE DIAGNOSTIC. CONTRACTOR SHALL REFER TO FOOD SERVICE AND ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT AND MOUNTING HEIGHTS.
- ANY DEVIATIONS FROM THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTAL OF BID AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. SUBMITTAL OF BID WILL VERIFY THAT THE CONTRACTOR HAS VISITED THE SITE.
- PIPES SHALL BE INSTALLED PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. THE INSTALLATION SHALL MEET ALL CONSTRUCTION CONDITIONS AND ALLOW FOR THE INSTALLATION OF OTHER TRADES.
- SUPPORT PIPING WITH CLEAN SURFACES AND FINISH TYPE PIPING HANDLES WITH 3/8" ALL THREAD ROD AND BRASS CLAMPS. PLUMBING TAPS AND WIRE NOT PERMITTED.
- TRAP PRIMERS FOR FLOOR DRAINS AND FLOOR SINKS AND WATER HAMMER ARRESTORS TO BE INSTALLED AS PER APPLICABLE PLUMBING CODES WITH LOCAL JURISDICTION CODE AMENDMENTS AND THE LATEST EDITION OF THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE 1010) SIZING AND INSTALLATION REQUIREMENTS.
- ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
- ALL SERVICE WATER HEATING EQUIPMENT TO BE IN COMPLIANCE WITH THE APPLICABLE PLUMBING CODES, WITH LOCAL JURISDICTION CODE AMENDMENT REQUIREMENTS AND LABELED AS SUCH.
- ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT AND VENT PIPING.
- CONTRACTOR SHALL PROVIDE: FLUENTS, TRAPS, STOP, BALL VALVES, BACKFLOW DEVICES FOR KITCHEN EQUIP. GASCOOKS, WATER HAMMER ARRESTORS, CLEANOUT COVERS AND PERFECT WASTE TO APPROVED RECEPTOR AND ALL NECESSARY TIE-IN FOR COMPLETE CONNECTED PLUMBING SYSTEM. (SEE SCHEDULES)
- ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE AND LOCATED AS PER CODE REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, MECHANICAL, ETC., PRIOR TO INSTALLATION.
- ALL PLUMBING FIXTURES VENTS TO TERMINATE A MINIMUM OF 6" ABOVE ANY VERTICAL SURFACE AND 10'-0" FROM OR 3'-0" ABOVE ANY MECHANICAL EQUIPMENT OUTSIDE AIR INTAKE.
- UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SINK/TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
- PIPES SHALL BE INSTALLED COMPLETELY WITH DIELECTRIC JOINTS BETWEEN CONNECTIONS OF NON-FERROUS MATERIALS.
- PROVIDE DIELECTRIC INSULATION FOR COPPER PIPE ANYWHERE IT CONTACTS DISSIMILAR METAL. THIS INCLUDES THE WATER HEATER CONNECTIONS.
- PROVIDE ACCESSIBLE WATER SUPPLY STOP VALVES AT EACH PLUMBING FIXTURE.
- PROVIDE A LINE SIZE PRESSURE REDUCING VALVE AT THE BUILDING SERVICE CONNECTION SHOULD THE SUPPLY PRESSURE EXCEED 80 PSI.
- ALL UNDERGROUND METALLIC PIPE AND FITTINGS SHALL BE PROTECTED IN ACCORDANCE WITH THE SOILS ENGINEER'S RECOMMENDATIONS.
- NO PIPES SHALL BE DIRECTLY EMBEDDED IN CONCRETE, MASONRY WALLS, CONCRETE FOOTINGS.
- THE PLUMBING CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR ALL POINTS OF CONNECTION WITH THE GENERAL CONTRACTOR AND OTHER TRADES PRIOR TO START OF WORK.
- VERIFY EXACT LOCATION, DEPTH AND SIZE OF ALL PIPING TO WHICH CONNECTIONS ARE REQUIRED; COORDINATE ALL CONNECTIONS WITH SITE CONDITIONS AND SITE UTILITY CONTRACTOR REPRESENTATIVE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL WORK RELATED TO PLUMBING UTILITIES INCLUDING: TRENCHING, BACKFILL, SUPPORTS, CLEAN-OUT PIPES, SERVICE VALVES AND BOXES, SERVICE LINES, TESTING, CLEANING, AND STERILIZING.
- ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATION AND NOT LESS THAN 6" ABOVE THE FLOOR TO PROVIDE CLEARANCE FOR CLEANING.
- ALL CUTTING OF EXISTING PIPING, WALLS AND/OR FLOORS SHALL UTILIZE MACHINE SAW CUTTING EQUIPMENT. HOLES FOR PIPES IN CONCRETE WALLS OR FLOORS SHALL UTILIZE CORE DRILLING EQUIPMENT. COORDINATE WITH ARCHITECTURAL DETAILS FOR FLOOR CUTTING AND PATCHING. THE PLUMBING CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR COORDINATION WITH WORK OF OTHER TRADES.
- PIPES TO WHICH IS SOLELY OR ONLY EXACT ROUTING AND INSTALLATION OF PIPES TO BE COORDINATED WITH THE BUILDING STRUCTURE AND THE WORK OF OTHER CONTRACTORS. NO WATER OR DRAIN LINES ARE PERMITTED TO BE INSTALLED OVER OR UNDER ELECTRICAL PANELS.
- NO LOWER TRANSMISSION PLUMBING PIPING SHALL BE INSTALLED ABOVE ELECTRICAL SWITCHGEAR EQUIPMENT OR PANELS. MAKE ADJUSTMENTS NECESSARY TO REROUTE PIPING FOR ACTUAL INSTALLATION OF ELECTRICAL EQUIPMENT.
- WHENEVER FOUNDATION WALLS, EXTERIOR WALLS, ROOFS, ETC. ARE PENETRATED FOR THE INSTALLATION OF PLUMBING SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT.
- ANY EXPOSED PIPING IN GUEST OR PUBLIC AREAS SHALL BE PAINTED TO MATCH THE WALL COLOR. ANY EXPOSED GAS PIPING IN VITICONS SHALL BE PAINTED WHITE.
- DURING THE PROGRESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH NUMBERS AND TRADE NAMES), MATERIALS, SIZES, LOCATIONS AND HOOK-UP POINTS. AS-BUILT SHALL BE GIVEN TO OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB.
- UPON COMPLETION OF JOB, THE CONTRACTOR SHALL REMOVE ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATION AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS AND FOREIGN MATERIAL, EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW.
- PLUMBING CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF THE PROJECT TURNOVER.
- PLUMBING CONTRACTOR SHALL PROVIDE MANUFACTURER'S OPERATION LITERATURE FOR ALL INSTALLED EQUIPMENT AND FIXTURES AT THE DATE OF PROJECT TURNOVER.
- ALL PLUMBING FIXTURES SHALL MEET AND BE INSTALLED AT DIMENSIONS REQUIRED BY ACCESSIBILITY STANDARDS FOR HANDICAPPED PERSONS.
- ANY PLASTIC PIPING (PVC PIPE) LOCATED IN A RETURN CEILING SPACE (OPEN CEILING) OR PLENUM SHALL BE ENCLOSED IN OPB OR WRAPPED WITH 3/8" FIRE-RATED BLANKET WITH FIBER STANDARD COVER.
- ALL UNDERGROUND WATER PIPING SHALL BE SOFT COPPER PIPING. THERE SHALL NOT BE ANY UNDERGROUND JOINT FITTINGS.
- ALL DENTAL SPECIALTY PIPING SHALL BE COPPER PIPING.
- DENTAL SPECIALTY PIPING SHALL BE INSTALLED BY A CERTIFIED MED GAS INSTALLER WITH 3 YEARS EXPERIENCE.
- ALL PIPING IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FINISHED CHASES OR INSTALLED ABOVE SUSPENDED CEILING UNLESS NOTED DIFFERENT.
- ALL FLOOR BRANCHES OFF PIPE RISERS SHALL BE PROVIDED IN SHUT OFF VALVES AND CAPPED DRAIN CONNECTION.
- INSULATED PIPEWORK SHALL BE INSTALLED SO THAT FULL THICKNESS INSULATION CAN BE APPLIED TO EACH PIPE.
- ALL PIPES INSTALLED ON THE ROOF MUST BE SUPPORTED, WITH PIPE SUPPORTS EVERY 4'-0". PIPE SUPPORTS TO BE DURA-BLOCK, CONTRACTOR TO PROVIDE SIZES AND ACCESSORIES REQUIRED.
- TYPICAL DETAILS AND NOTES SHALL APPLY, THOUGH NOT NECESSARILY INDICATED AT A SPECIFIC LOCATION ON PLANS, WHERE NO DETAILS ARE SHOWN. CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OBTAIN INFORMATION FOR CLARITY.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL, STRUCTURAL, NOTES AND TYPICAL DETAILS.

## SANITARY SEWER/WASTE/VENT

SYMBOL	DESCRIPTION
	CLEANOUT
	FLOOR DRAIN & P-TRAP (RISER)
	FLOOR DRAIN, ROOF DRAIN, OR AREA DRAIN (SIZE & TYPE NOTED)
	HUB DRAIN & P-TRAP
	2-WAY COUNTERSUNK CLEANOUT PLUGS MOUNT IN CONCRETE PAD FLUSH WITH FINISHED GRADE
	SANITARY COMBINATION FITTING
	VENT PIPE (PLUMBING)
	INDIRECT DRAIN
	CONDENSATE DRAIN
	FLOOR CLEANOUT
	ROOF DRAINAGE
	SECONDARY ROOF DRAINAGE
	NEW PIPING (WASTE, WATER, ETC)
	PIPING TO BE REMOVED
	EXISTING PIPING (WASTE, WATER, ETC)(LIGHT LINES)
	EXISTING WATER PIPE
	EXISTING SANITARY SEWER PIPE
	EXISTING VENT PIPE
	NEW VENT PIPE

## NATURAL GAS

SYMBOL	DESCRIPTION
	PIPING TO BE REMOVED
	EXISTING MED PRESS GAS PIPE
	EXISTING LOW PRESS GAS PIPE
	GAS (MEDIUM PRESSURE)
	GAS (LOW PRESSURE PRESSURE)
	PLUG VALVE

## DOMESTIC WATER SUPPLY

SYMBOL	DESCRIPTION
	PIPING TO BE REMOVED
	NEW COLD WATER PIPE
	NEW HOT WATER (120")
	NEW HOT WATER RETURN (120")
	NEW FIRE PIPE
	HOT WATER @ 140"
	SHOCK ABSORBER SEE PLUMBING FIXTURE CONNECTION SCHEDULE

## UTILITIES

WATER / SEWER CONTACT: \_\_\_\_\_

NATURAL GAS CONTACT: \_\_\_\_\_

CONTRACTOR IS RESPONSIBLE TO OBTAIN AND VERIFY WITH ARCHITECT AND CITY FOR LATEST PLANS

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TORTUGAS TRAIL, LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION
5		
4		
3		
2		
1		
ISSUE:	01-03-25	

PROJECT NO.: 22115L  
FILE NAME: \_\_\_\_\_  
DRAWN BY: M.C  
CHECKED BY: J.M  
SHEET TITLE:

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PRELIMINARY DRAWINGS 01-03-25

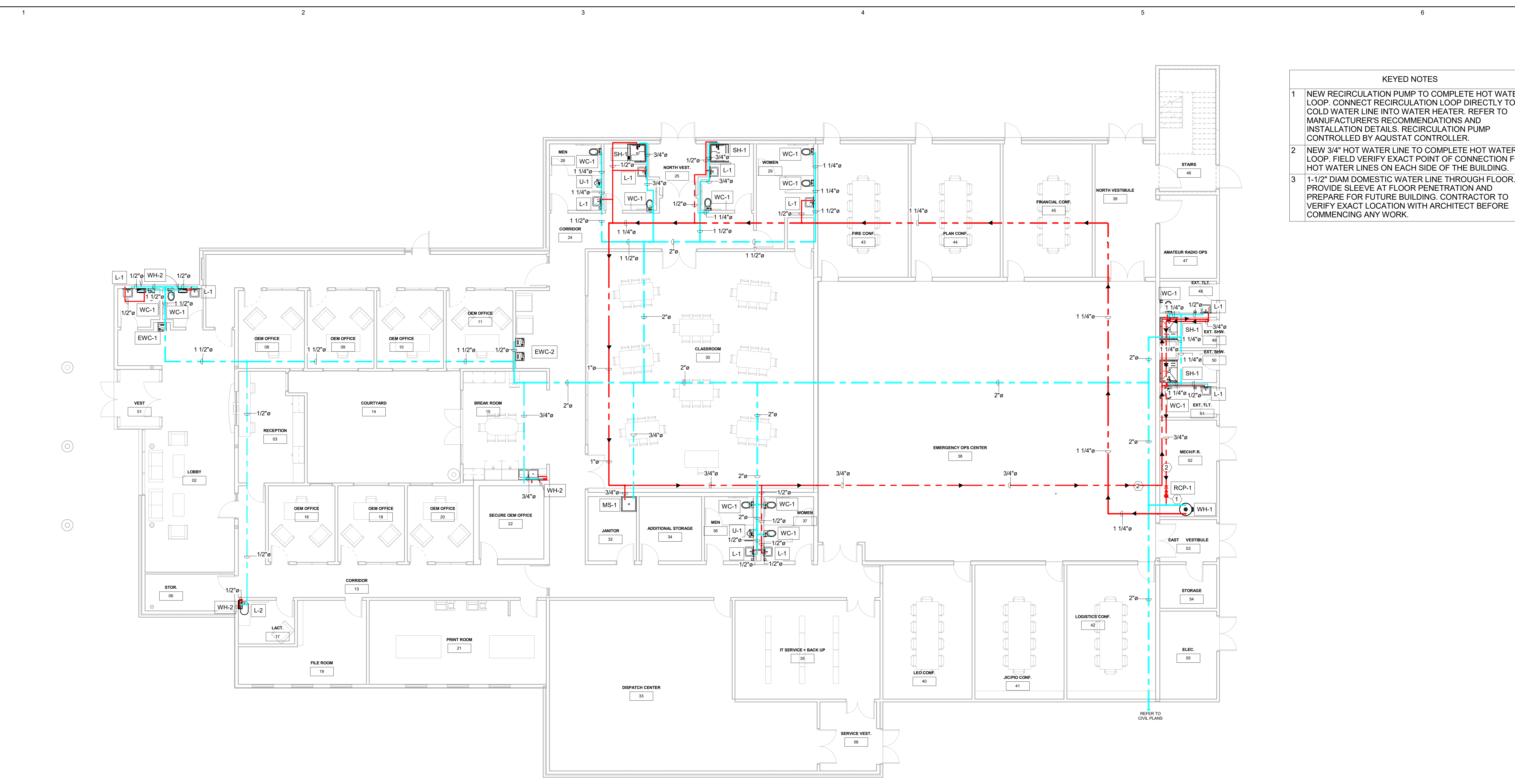
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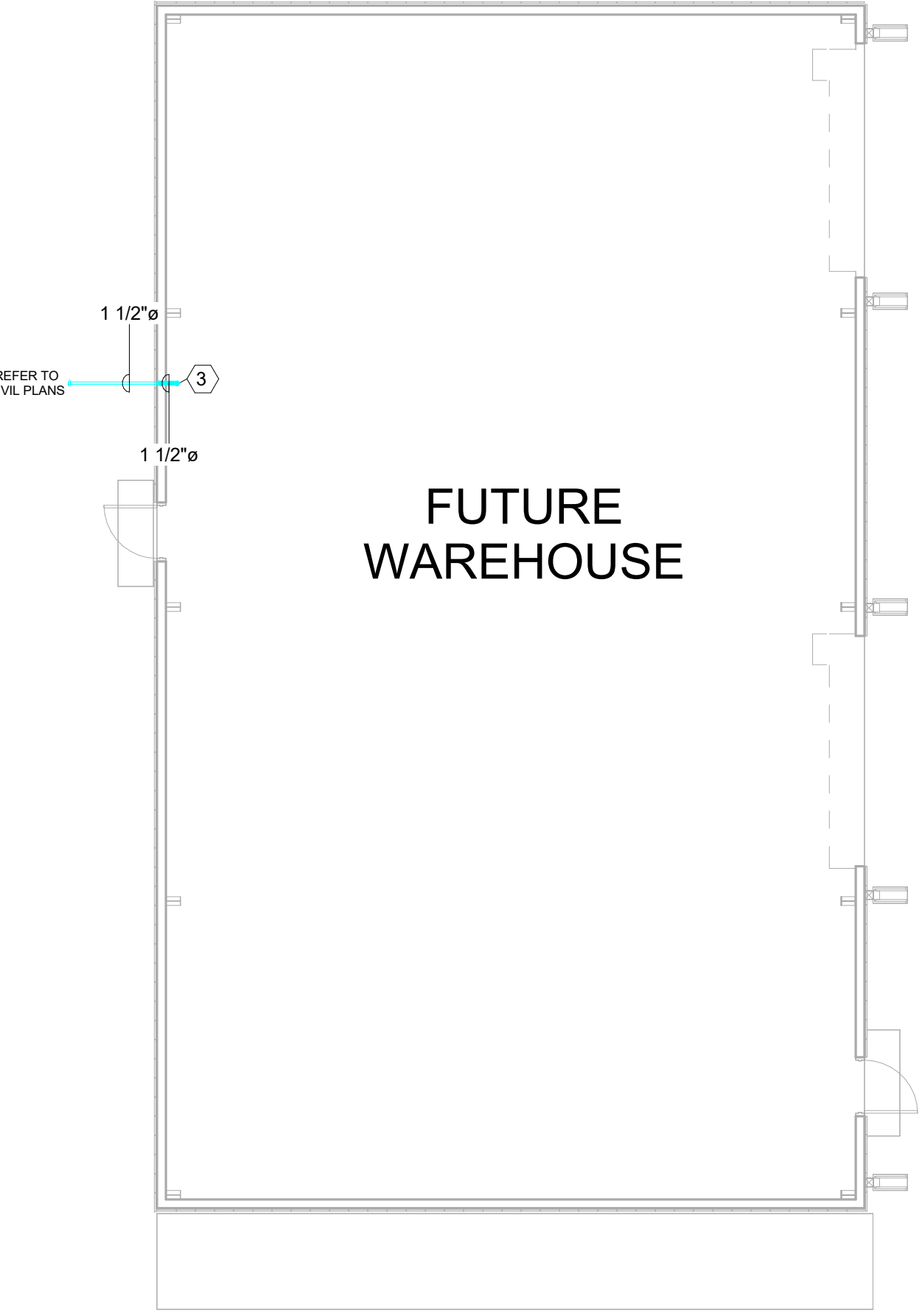
PLUMBING  
GENERAL NOTES

SHEET NO:  
**P-100**

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1 DOMESTIC WATER PLUMBING PLAN  
1/8" = 1'-0"



2 WAREHOUSE DOMESTIC WATER PLUMBING PLAN  
1/8" = 1'-0"

- KEYED NOTES
- 1 NEW RECIRCULATION PUMP TO COMPLETE HOT WATER LOOP. CONNECT RECIRCULATION LOOP DIRECTLY TO COLD WATER LINE INTO WATER HEATER. REFER TO MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION DETAILS. RECIRCULATION PUMP CONTROLLED BY AQUASTAT CONTROLLER.
  - 2 NEW 3/4" HOT WATER LINE TO COMPLETE HOT WATER LOOP. FIELD VERIFY EXACT POINT OF CONNECTION FOR HOT WATER LINES ON EACH SIDE OF THE BUILDING.
  - 3 1-1/2" DIAM DOMESTIC WATER LINE THROUGH FLOOR. PROVIDE SLEEVE AT FLOOR PENETRATION AND PREPARE FOR FUTURE BUILDING. CONTRACTOR TO VERIFY EXACT LOCATION WITH ARCHITECT BEFORE COMMENCING ANY WORK.

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**OEM EMERGENCY OPERATIONS CENTER**  
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MARK	DATE	DESCRIPTION
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PROJECT NO.: 22115L  
FILE NAME:  
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CHECKED BY: Checker  
SHEET TITLE:

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- KEYED NOTES**
- 1 PROVIDE FULL SIZE CLEANOUT.
  - 2 PROVIDE 2" DIAM. VENT THROUGH ROOF.
  - 3 PROVIDE FLOOR DRAIN/SINK TRAP SEALS.
  - 4 4" DIAM SANITARY SEWER STUB-UP FOR FUTURE CONNECTION. CAP 24" ABOVE FINISHED GRADE. CONTRACTOR TO VERIFY EXACT LOCATION WITH ARCHITECT BEFORE COMMENCING ANY WORK.

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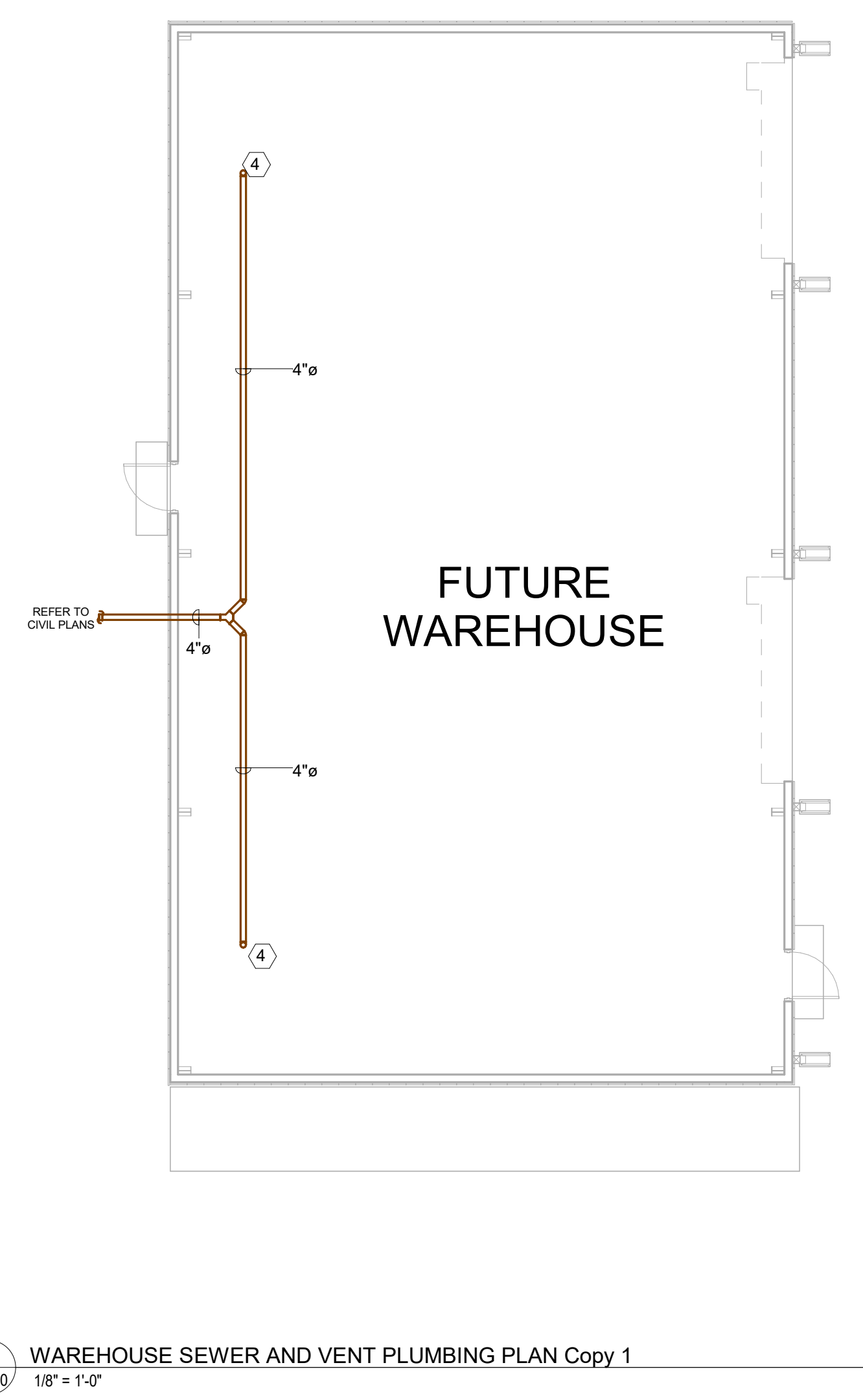
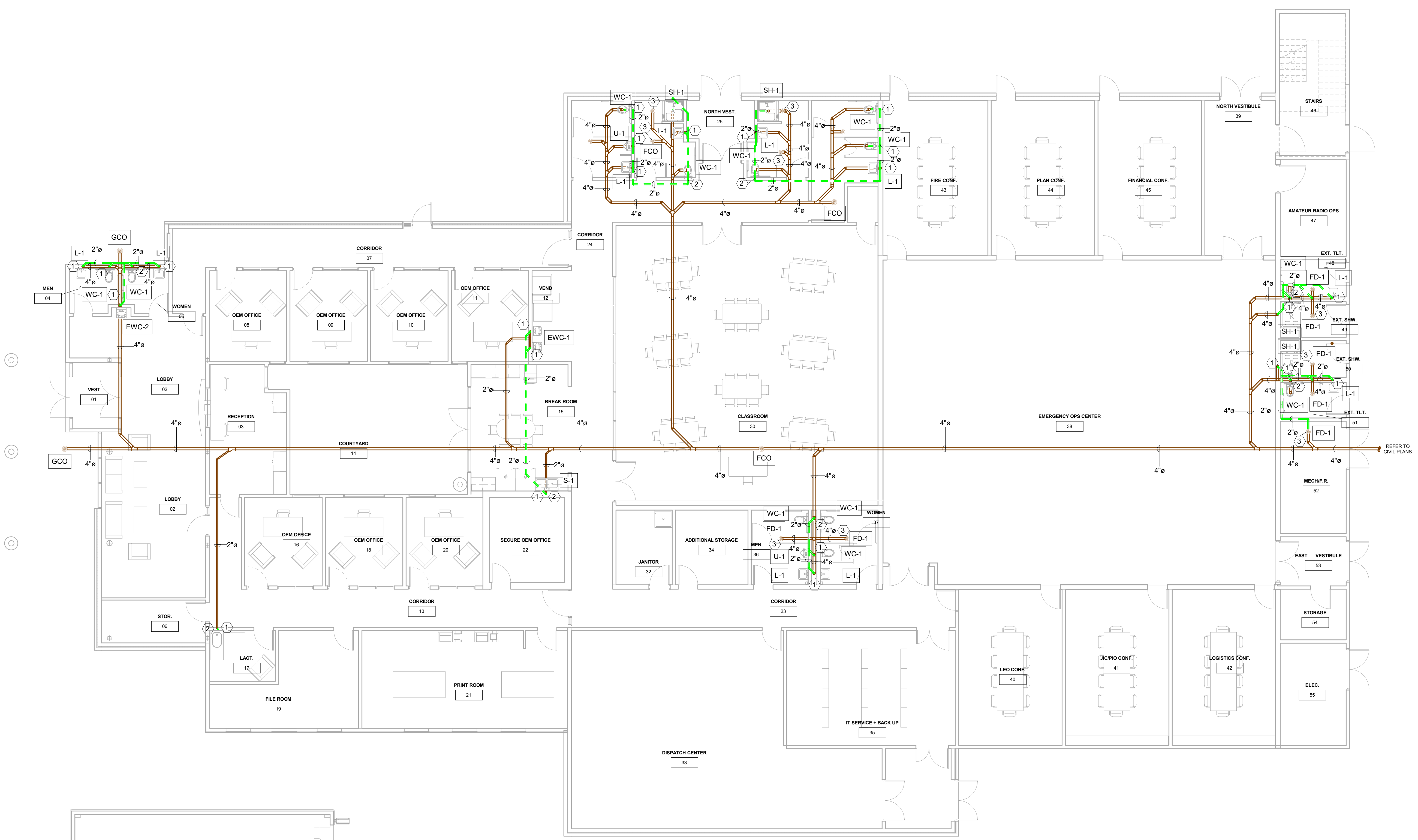
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5			01-03-25
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2			
1			

PROJECT NO.: 22115L  
 FILE NAME:  
 DRAWN BY: M.C.  
 CHECKED BY: J.M.  
 SHEET TITLE: SEWER AND VENT PLUMBING PLAN  
 SHEET NO.: P-300

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1 SEWER AND VENT PLUMBING PLAN  
 P-300  
 1/8" = 1'-0"

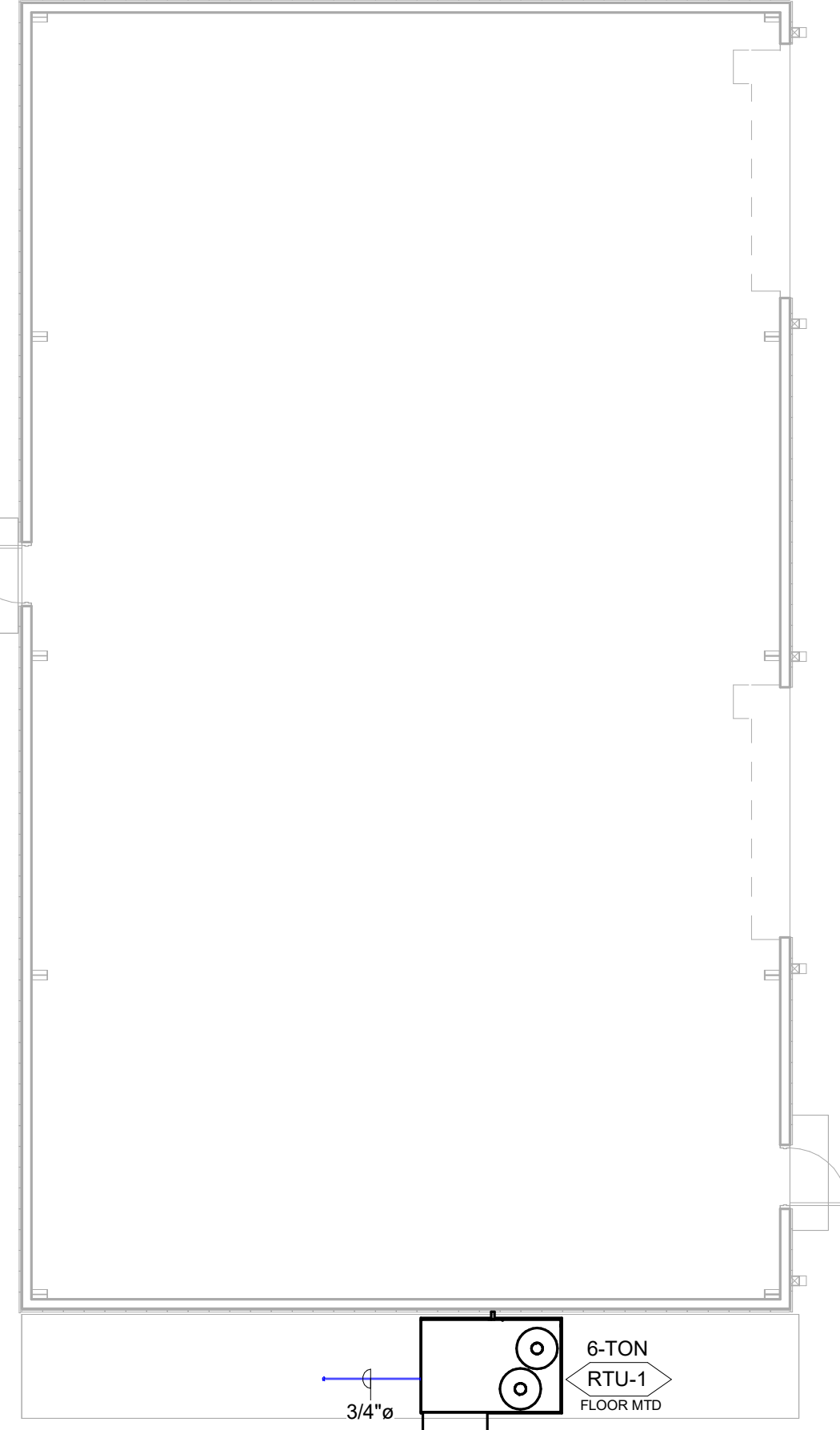
MARK	DESCRIPTION	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUAL	ROUGH-IN REQUIREMENTS				ACCESSORIES
			DRAIN	VENT	COLD	HOT	
WC-1	WATER CLOSET FLOOR MOUNTED REAR OUTLET AUTO FLUSHOMETER (HYBRID CELL)	KOHLER K-4333-S-0	3"	1-1/2"	1-1/2"	-	BOWL ELONGATED, ADA COMPLIANT, VITREOUS CHINA, ANTIMICROBIAL FINISH SEAT: KOHLER MODEL K-4771-CA-0 WHITE OPEN FRONT TOILET SEAT FLUSHOMETER: KOHLER MODEL K-7151-CP AUTOMATIC, TOUCHLESS, 30-YEAR ENERGY CELL, EXPOSED HYBRID 1.28 GPF WASH-DOWN TOILET FLUSHOMETER, 1-1/2" TOP SPUD
U-1	URINAL WALL MOUNTED TOP SPUD AUTO FLUSHOMETER	KOHLER K-4991-ETSS-0	2"	1-1/4"	3/4"	-	URINAL, ADA COMPLIANT, VITREOUS CHINA, SIPHON JET, PROVIDE WITH MANUFACTURER'S APPROVED MOUNTING BRACKET FLUSHOMETER: KOHLER MODEL K-1040W30-CP, AUTOMATIC, TOUCHLESS, 30-YEAR ENERGY CELL, 1.0 GPF, 3/4" TOP SPUD
L-1	LAVATORY WALL MOUNTED VITREOUS CHINA AUTO FAUCET (HYBRID CELL)	KOHLER K-1997-S31-0	2"	1-1/4"	1/2"	1/2"	SAVATORY, ADA COMPLIANT, VITREOUS CHINA, ANTIMICROBIAL FINISH, CHAIN OVERFLOW DRAIN, SINGLE HOLE. PROVIDE WITH K-8968 P-TRAP AND K-1988-S3-0 SHORLUD AND MOUNTING BRACKET FAUCET: KOHLER MODEL K-13402, AUTO, 30-YEAR ENERGY CELL, 0.5 GPM, VANDAL RESISTANT OPERATOR AND TEMPERATURE MIXER
SH-1	TRANSFER SHOWER ADA	AQUATIC BATH 1808FSD	2"	1-1/4"	3/4"	3/4"	KRYTORE™ THERMO SHOWER 30" X 36" W/ 15.25" H. TRIPLE SHOWER, AZORLY APPLIED SHOWER PAN WITH 1/2 IN. THRESHOLD, SLIP RESISTANT TEXTURED BOTTOM, CENTER DRAIN HOLE, DRAIN NOT INCLUDED. PROVIDE WITH GRAB BARS AND FOLDING SHOWER SEAT. COMMERCIAL SHOWER SYSTEM TRIM KIT, CONTAINS DOUBLE CERAMIC PRESSURE BALANCE CARTRIDGE, VALVE TRIM KIT, 3-FUNCTION WATER SAVING HAND SHOWER NON-POSITIVE SHUT-OFF, METAL HOSE, MEDIUM BREAKER, 2-WAY DIVERTER TRIM KIT, FIXED SHOWERHEAD, WALL SUPPLY AND 3/8" SLIDE BAR, 2.5 GPM @ 80PSI, 1" FLUSH ROUGH-IN VALVE AND 2-WAY DIVERTER VALVE (R422) MUST BE PURCHASED SEPARATELY. AMERICAN STANDARD - TRIM KIT MODEL # TUM2213.002 AND FLUSH VALVE BODY MODEL # BUD10155
S-1	SINK STAINLESS STEEL DROP-IN DOUBLE BOWL	JUST SINKS DUFADA2133-A-GR	2"	1-1/4"	1/2"	1/2"	SINK, 21 1/2" X 33 1/4" X 6 1/2", 18 GAUGE 304 STAINLESS STEEL, SINGLE HOLE AND INTEGRA OVERFLOW SYSTEM. FAUCET: JUST SINKS MODEL JPS3000, POLISHED CHROME, PULL-OUT SPRAY, SINGLE HANDLE, DECK PLATE AND POP-UP DRAIN
EW-C1	ELECTRIC WATER COOLER HOT	HALEY TAYLOR H405L	2"	1-1/4"	1/2"	-	COOLER, 8.5 LEVEL, ADA COOLER, FILTERED 8 GPM PLATINUM VINYL, PROVIDE WITH 98312C CANE BROCK AND 1/2" IN WALL CARRIER (B-L) 5/8"
EW-C2	ELECTRIC WATER COOLER COLD	HALEY TAYLOR H405L	2"	1-1/4"	1/2"	-	COOLER, SINGLE ADA COOLER, FILTERED 8 GPM PLATINUM VINYL, PROVIDE WITH 98312C CANE BROCK AND 1/2" IN WALL CARRIER
RB-1	REFRIGERATOR BOX	DAVEY MDDA 37887	-	-	3/4"	-	BOX, REFRIGERATOR, COPPER (WALL), STANDARD
ICE-1	ICE MAKER	DAVEY MDDA 37887	-	-	3/4"	-	BOX, ICE MAKER, COPPER (WALL), STANDARD
MS-1	MOP SINK	FRIT MSB2424	3"	2"	3/4"	3/4"	SINK, 24" X 24" X 16", 18 GAUGE 304 FAUCET, HOSE AND BRACKET NO. 832-AA-307 MOP HANGER NO. 895-CC-247
FD-1	FLOOR DRAIN	ZURN ZM415-SZ1	LINE SIZED	LINE SIZED	-	-	DRAIN, ZURN MODEL ZM415-BZ1 CAST IRON FLOOR DRAIN WITH NICKEL BRONZE TOP, PROVIDE WITH 1/2" TRAP GUARD 80,000 BTUH INPUT, 115/110
WH-1	WATER HEATER NATURAL GAS (ATMOSPHERIC) 100 GALLON TANK	BRAEFORD WHITE LG100W903N	-	-	1-1/4"	1-1/4"	78 GPM RECOVERY RATE AT 100°F RISE. ALL INTERNAL SURFACES OF THE TANK EXPOSED TO WATER SHALL BE GLASS-LINED WITH VITREOUS CHINA. VITREOUS CHINA, WITH MICROBAM™ ANTIMICROBIAL TECHNOLOGY THAT HAS BEEN FUSED TO STEEL BY FIRING AT A TEMPERATURE RANGE OF 1800°F
SA-1	WATER HAMMER ARRESTOR (SHOCK ABSORBER)	ZURN Z1700	-	-	LINE SIZED	-	ZURN MODEL Z1700 SHOCKTROL WATER HAMMER ARRESTOR
MXV-1	MIXING VALVE	ZURN ZV1070-XL	-	-	LINE SIZED	-	ZURN MODEL ZV1070-XL AQUA-GARD THERMOSTATIC MIXING VALVE, WITH BRONZE BODY AND INTERNAL MOUNTING HOLES, TEMPERATURE ADJUSTMENT FROM 95-115°F
RCF-1	RECIRCULATION PUMP	GRUNDFOS MUP19-1885	-	-	3/4"	3/4"	BRANDS MODEL MUP19-1885 PLUM HOT WATER OPEN SYSTEM RECIRCULATING PUMP, CAPABLE OF 4.0 GPM (140°F) @ 10' HEAD, 1.25 HP, 115V/60Hz, INTEGRAL ATTACHED TIMER FOR OPERATION CONTROL, OPTIONAL ADJUSTAT AND ATTACHED BLOWER COIL
FCO	FLOOR CLEANOUT	ZURN ZM440BZ1	2" TO 4"	-	-	-	ZURN MODEL ZM440BZ1 CLEANOUT, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, WITH GAS AND WATERTIGHT THREADED ABS TAPERED PLUG AND TOP ASSEMBLY, *TYPE B LIGHT DUTY SCOURTED COVER
WCO	WALL CLEANOUT	ZURN Z-1448	2" TO 4"	-	-	-	ZURN MODEL Z-1448 CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED PLUG, AND ROUND, SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW
GCO	GRADE CLEANOUT	ZURN Z-1402-HD	2" TO 4"	-	-	-	ZURN MODEL Z-1402-HD TUF-TOP NON ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST IRON BODY, WITH GAS AND WATERTIGHT ABS TAPERED THREADED PLUG, AND ROUND SCOURATED CAST IRON BODY WITH SECURED COVER AND FRAME
BFP-1	BACKFLOW PREVENTER	ZURN/WILKINS 975XL2	-	-	LINE SIZED	-	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER SHALL BE CERTIFIED TO NSF 61 AND SHALL BE ASSES LISTED 1013, RATED TO 180°F, AND SUPPLIED WITH FULL PORT BALL VALVES, THE MAIN BODY AND ACCESS COVERS SHALL BE LOW LEAD BRONZE (ASTM B 584). THE SEAT RING AND ALL INTERNAL POLYMERS SHALL BE EPDM™ AND THE SEAT O-RINGS/ELASTOMERS SHALL BE SILICONE. THE FIRST AND SECOND CHECKS SHALL BE ACCESSIBLE FOR MAINTENANCE WITHOUT REMOVING THE RELIEF VALVE OR THE ENTIRE DEVICE FROM THE LINE. IF INSTALLED INDOORS, THE INSTALLATION SHALL BE SUPPLIED WITH AN AIR GAP ADAPTER AND INTERNAL MONITOR SWITCH.

2 WAREHOUSE SEWER AND VENT PLUMBING PLAN Copy 1  
 P-300  
 1/8" = 1'-0"

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1 CONDENSATE PLUMBING PLAN  
P-400/ 1/8" = 1'-0"



2 WAREHOUSE CONDENSATE PLUMBING PLAN  
P-400/ 1/8" = 1'-0"

- KEYED NOTES
- 1 EXTEND AND DISCHARGE FULL SIZE DRAIN FROM INDOOR UNIT CONDENSATE LINE DOWN TO P-TRAP.
  - 2 EXTEND AND DISCHARGE FULL SIZE DRAIN FROM INDOOR UNIT CONDENSATE LINE DOWN TO 6" ABOVE MOP SINK.

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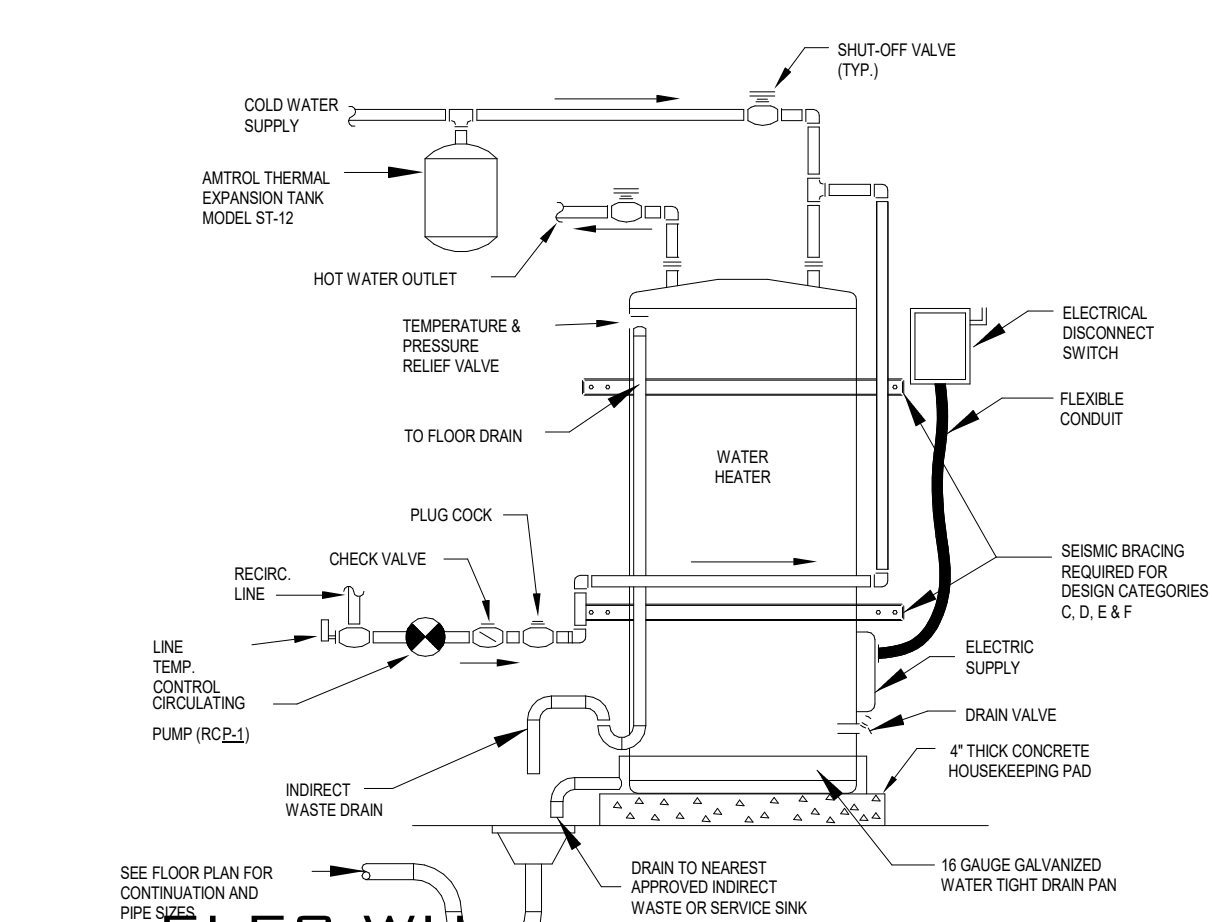
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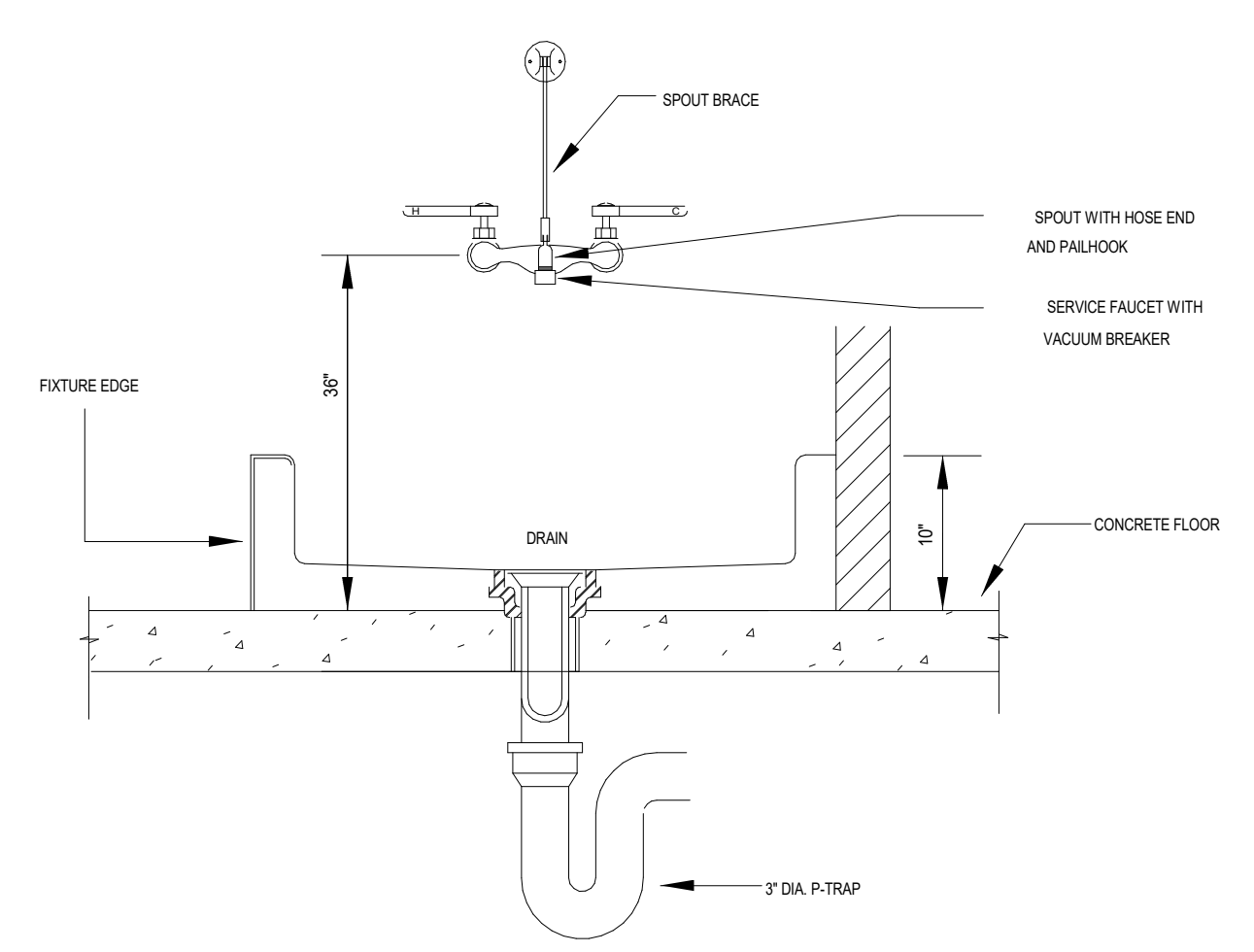
CONDENSATE AND GAS PLUMBING PLAN

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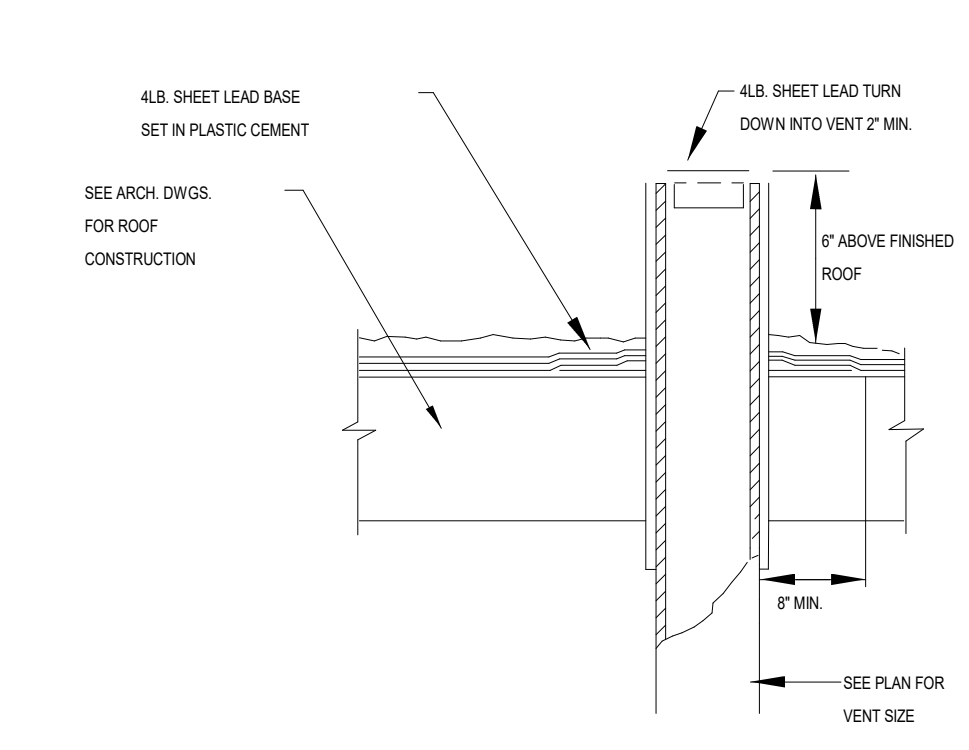
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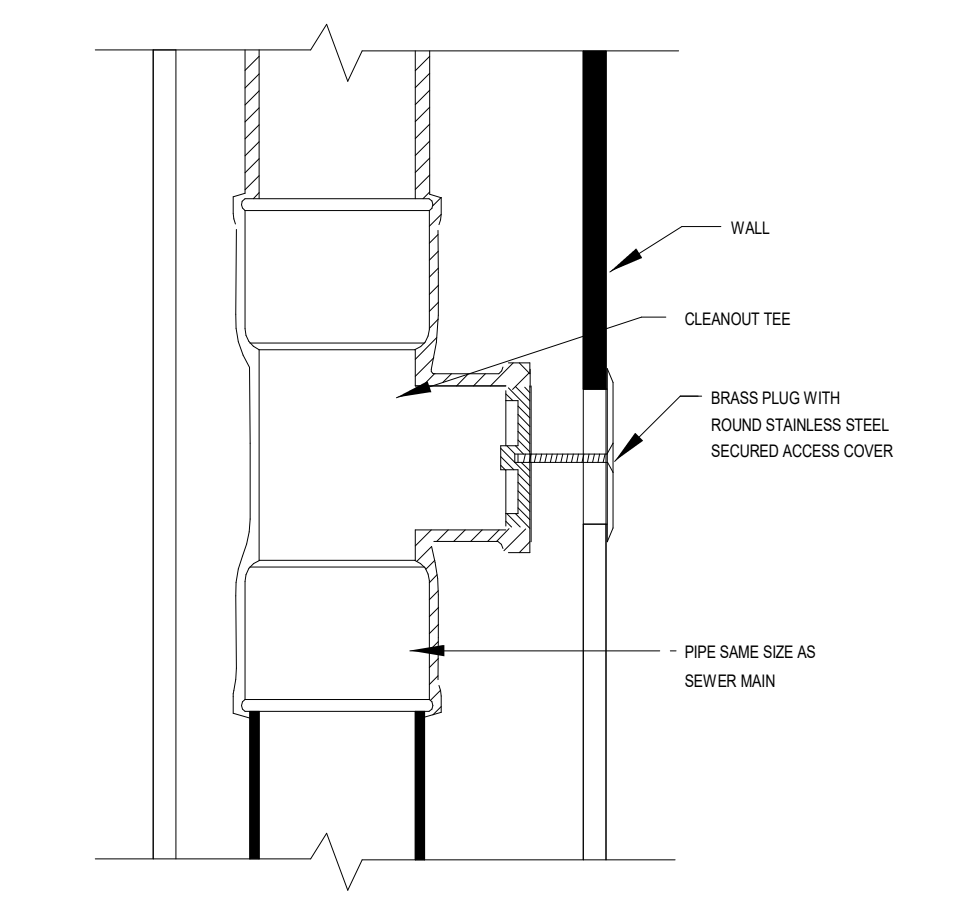
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**DETAIL (W/RECIRC. PUMP)**  
P-500 NOT TO SCALE



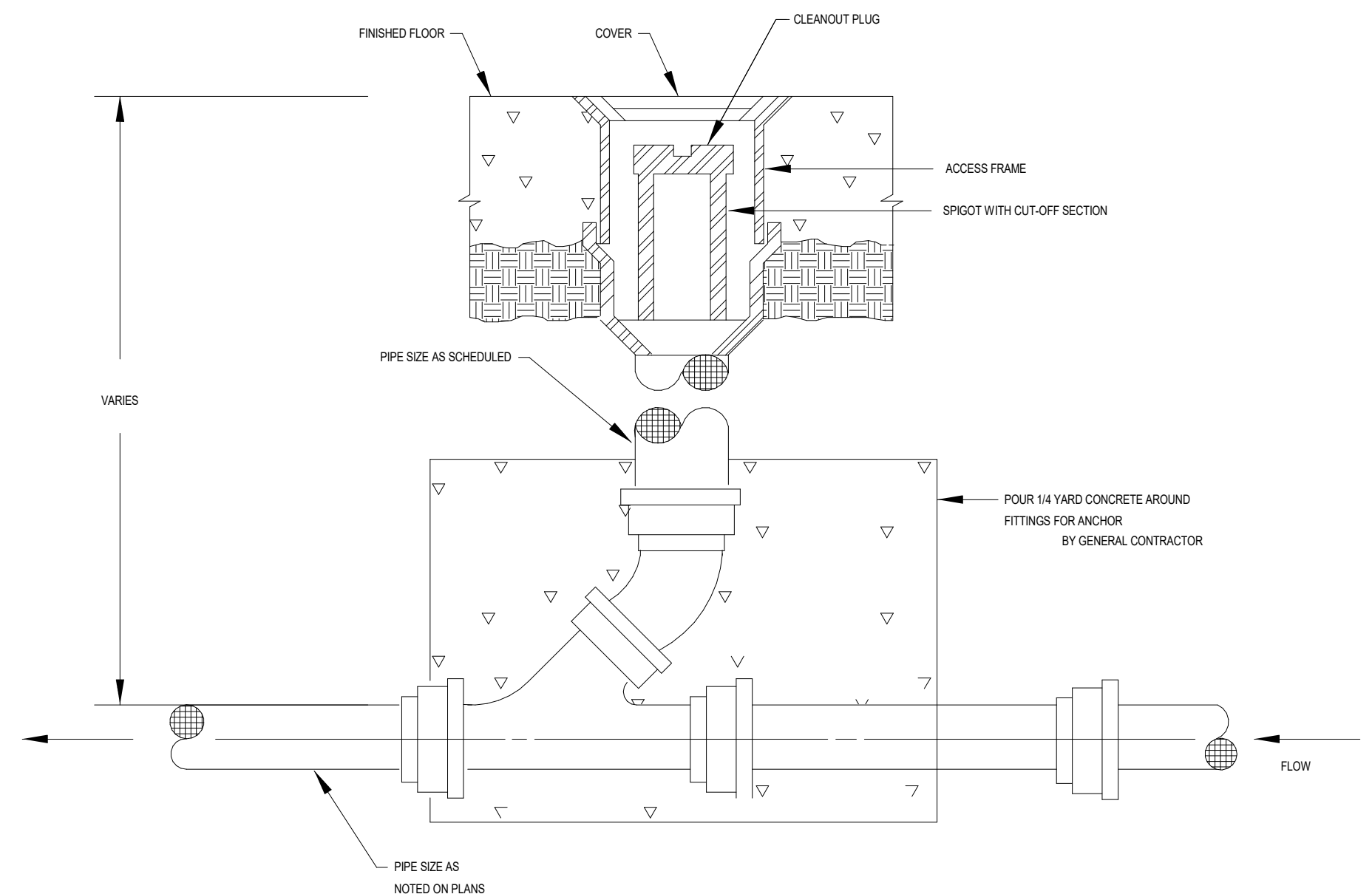
**2** **MOP SINK DETAIL**  
P-500 NOT TO SCALE



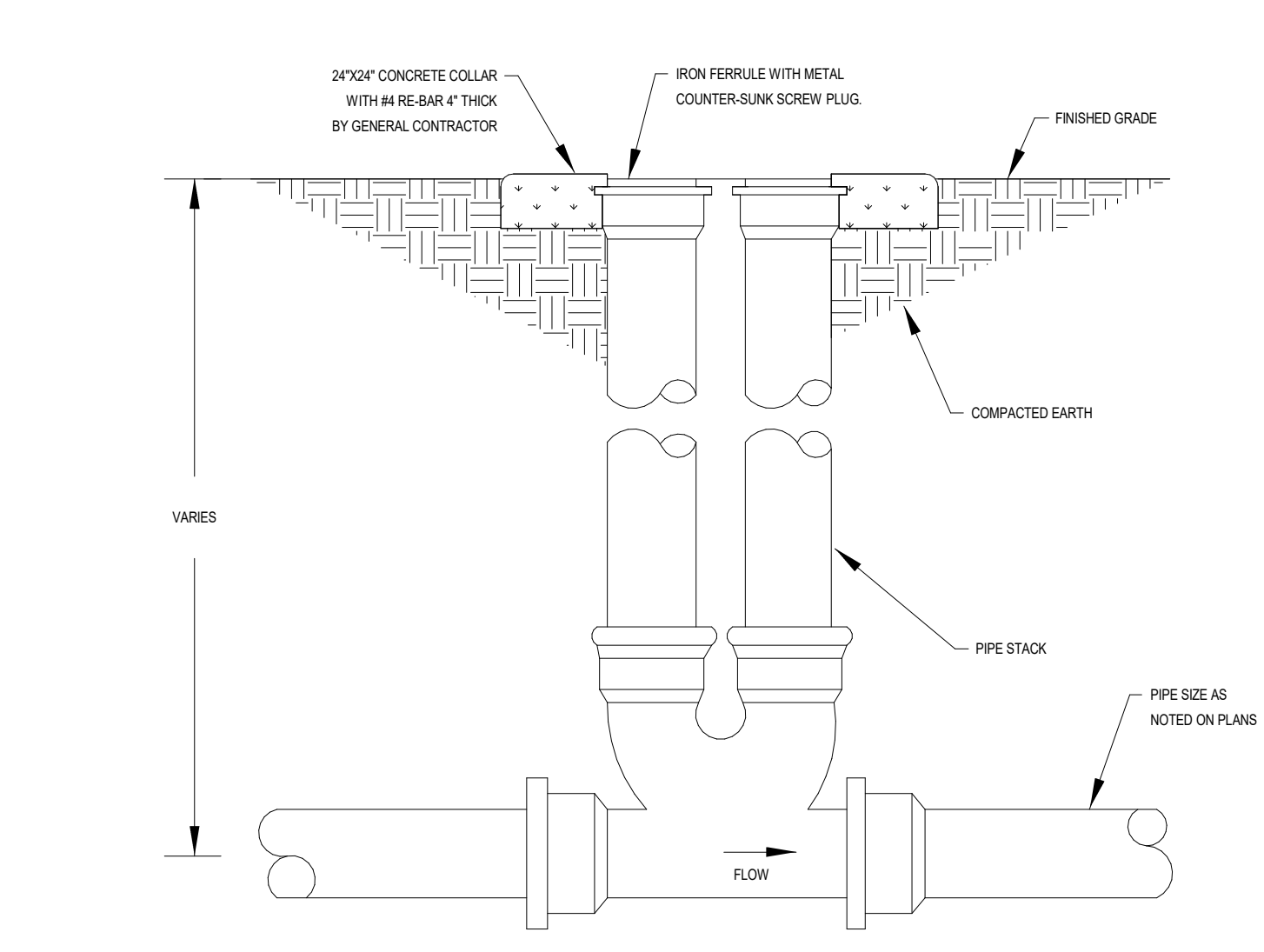
**3** **VENT THRU ROOF**  
P-500 NOT TO SCALE



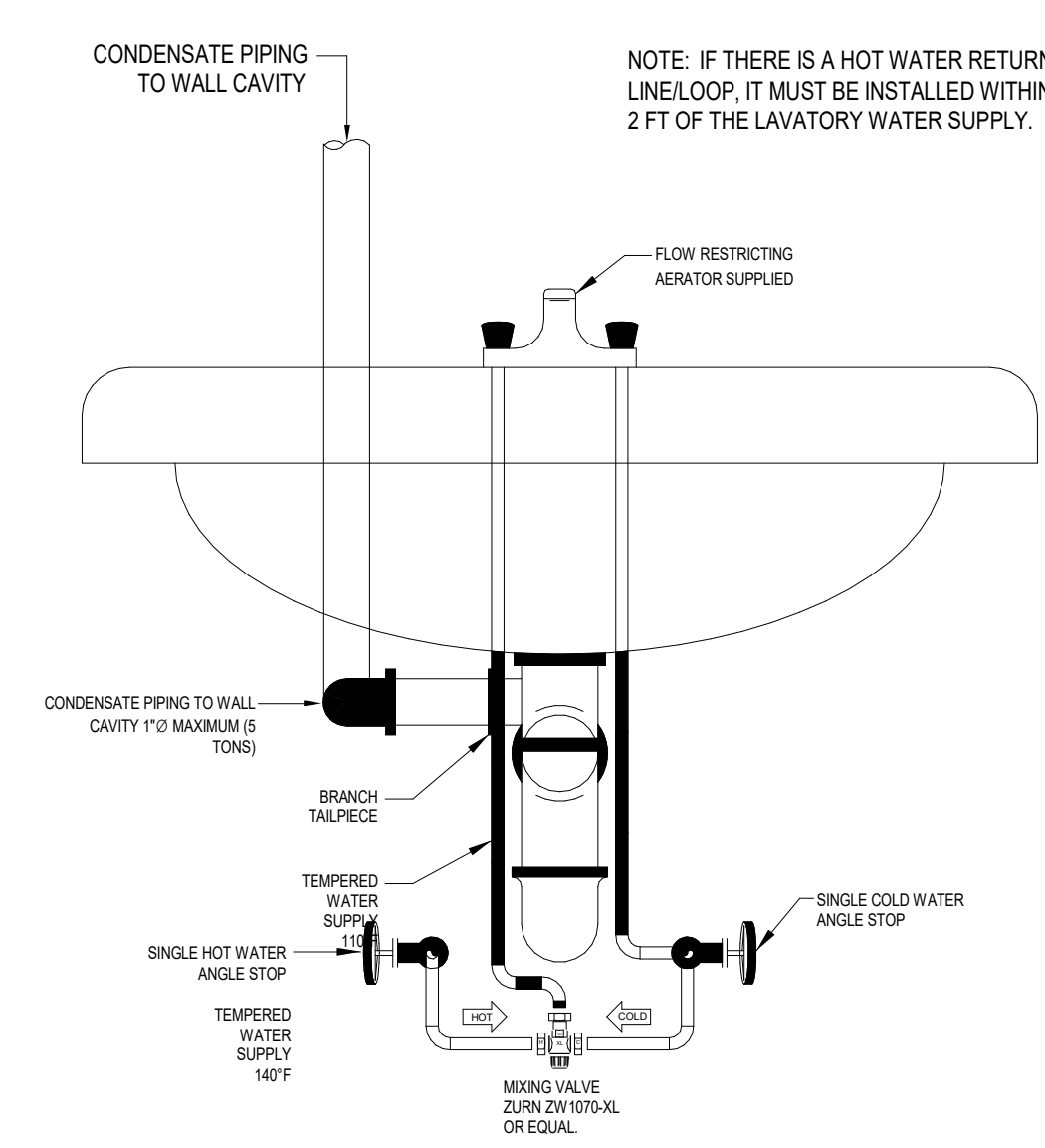
**4** **WALL CLEANOUT DETAIL**  
P-500 NOT TO SCALE



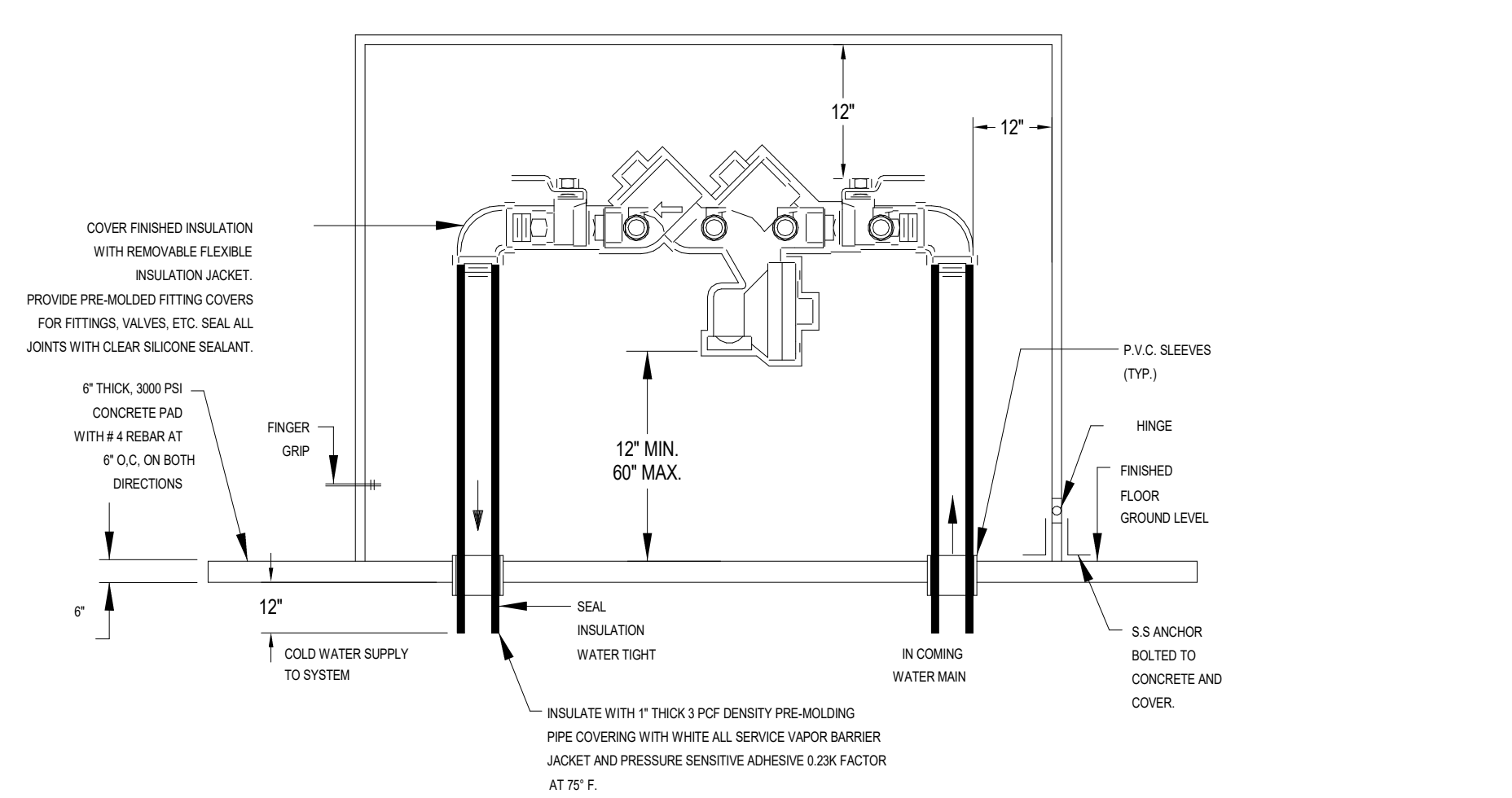
**5** **FLOOR CLEANOUT DETAILS**  
P-500 NOT TO SCALE



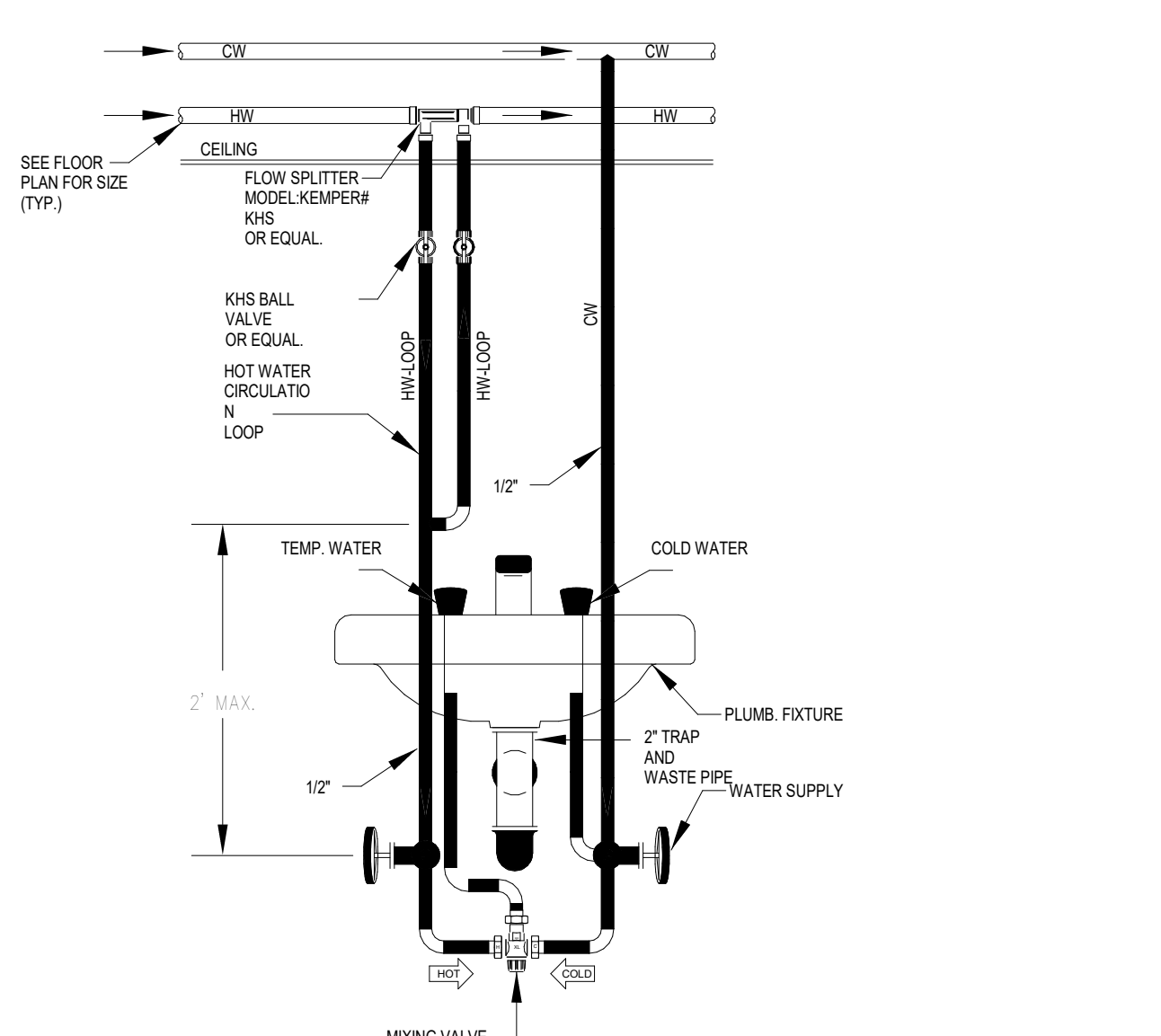
**6** **DOUBLE GRADE CLEANOUT DETAIL**  
P-500 NOT TO SCALE



**7** **MIXING VALVE DETAIL**  
P-500 NOT TO SCALE



**8** **DOMESTIC BACKFLOW PREVENTER**  
P-500 SCALE: NONE



**9** **TYP. PUBLIC LAVATORY HOT WATER LOOP DETAIL**  
P-500 SCALE: NONE

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ELECTRICAL SYMBOL LEGEND

- 1. THESE SYMBOLS COMPRISE A STANDARD LIST; NOT ALL SYMBOLS MAY APPEAR ON THIS PROJECT.
2. ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE ABOVE FINISHED FLOOR. MOUNTING HEIGHTS INDICATED ON ARCHITECTURAL WALL ELEVATIONS OR AS NOTED SPECIFICALLY ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER MOUNTED HEIGHTS LISTED BELOW.

Table with columns: SYMBOL, DESCRIPTION, MOUNTING HEIGHT, SYM, DESCRIPTION, MOUNTING HEIGHT, SYM, DESCRIPTION, MOUNTING HEIGHT. Includes sections for LIGHTING SYMBOLS, POWER SYMBOLS, SPECIAL SYSTEMS SYMBOLS, and FIRE ALARM SYSTEM SYMBOLS.

ELECTRICAL SYMBOL LEGEND

Table with columns: A OR AMP, AMPERE, NEC, NATIONAL ELECTRIC CODE; AF, AMP FUSED, NEUT, NEUTRAL; AFF, ABOVE FINISH FLOOR, NEMA, NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION; etc.

DEFINITIONS

Table with columns: SYMBOL, DESCRIPTION, MOUNTING HEIGHT. Includes terms like CONTRACTOR, DRAWINGS, EQUIPMENT SUPPLIER, PROVIDE, OR EQUAL, INSTALL.

ELECTRICAL GENERAL NOTES

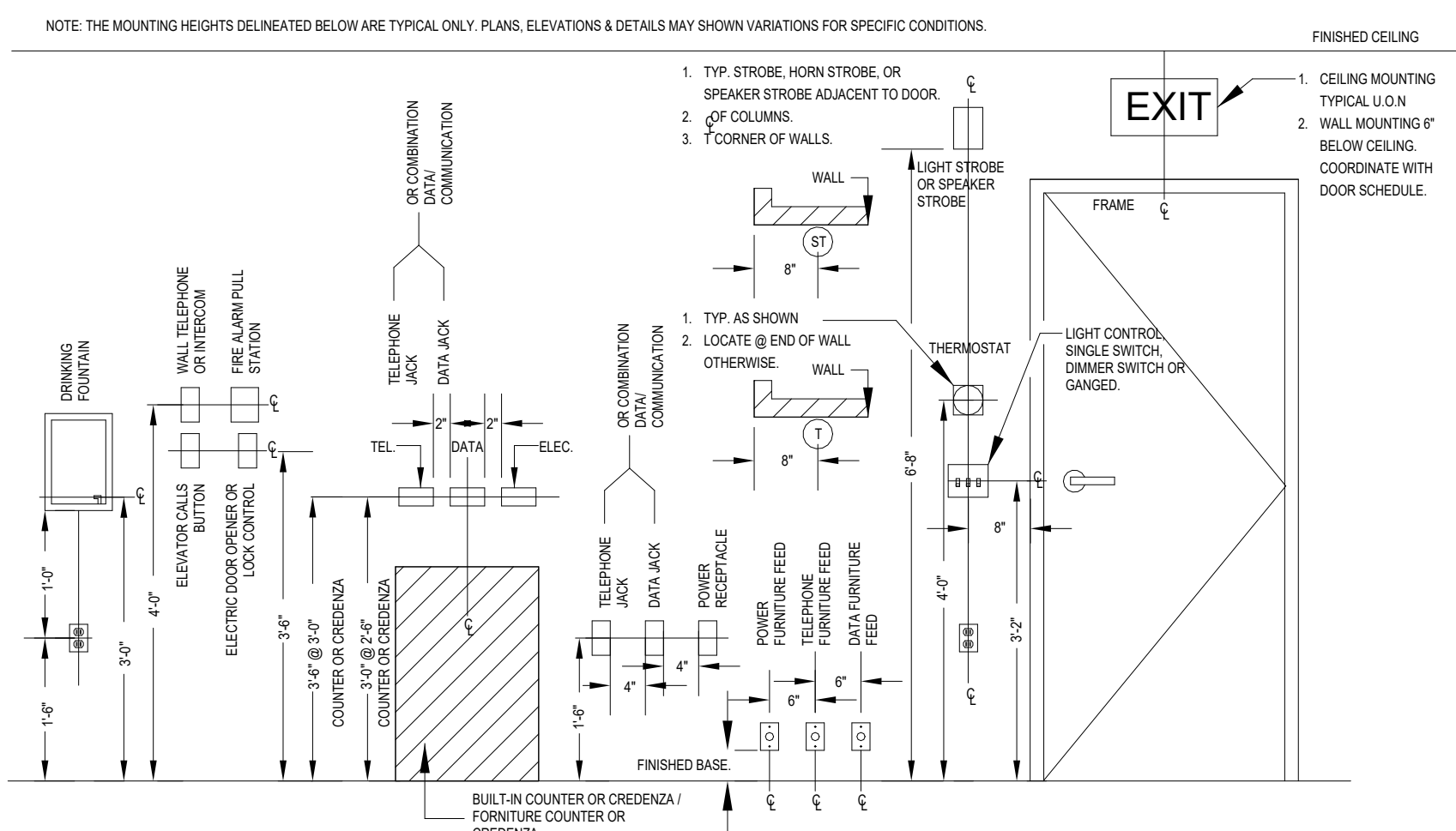
GENERAL

- A. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZED THEMSELVES WITH THE PROJECT CONDITIONS.
B. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL ARCHITECTURAL AND MECHANICAL EQUIPMENT AND PROVIDE ELECTRICAL CONNECTIONS IN THIS CONTRACT FOR ANY ITEM REQUIRED.
C. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH PROJECT PRIOR TO THE BID OPENING...
U. CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW LAY-IN FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND MECHANICAL DIFFUSERS PRIOR TO INSTALLATION OF FIXTURES.

ELECTRICAL SPECIFICATIONS

- 1. THE ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE AND ADOPTED PROVISIONS OF THE NATIONAL ELECTRICAL CODE, ENERGY CODE AS ADOPTED AND INTERPRETED BY THE STATE OF NEW MEXICO AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REGULATIONS...
2. ALL WORK SHALL CONFORM WITH FEDERAL, STATE, AND LOCAL CODES, RULES, AND REGULATIONS. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR...
3. ALL MATERIALS SHALL BE NEW, EXCEPT WHERE NOTED OTHERWISE. ALL WORK SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE WHEN COMPLETED...

TYPICAL DEVICE MOUNTING HEIGHTS



CONTRACTOR IS RESPONSIBLE TO OBTAIN AND VERIFY WITH ARCHITECT AND CITY FOR LATEST PLANS.

NOT FOR CONSTRUCTION PRELIMINARY DRAWINGS 01-03-25



Vertical sidebar containing ASA ARCHITECTS logo, project information (OEM EMERGENCY OPERATIONS CENTER, TORTUGAS TRAIL, LAS CRUCES, NM), contact details, and sheet title E-100.

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CONSTRUCTION  
DOCUMENTS  
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CONSTRUCTION

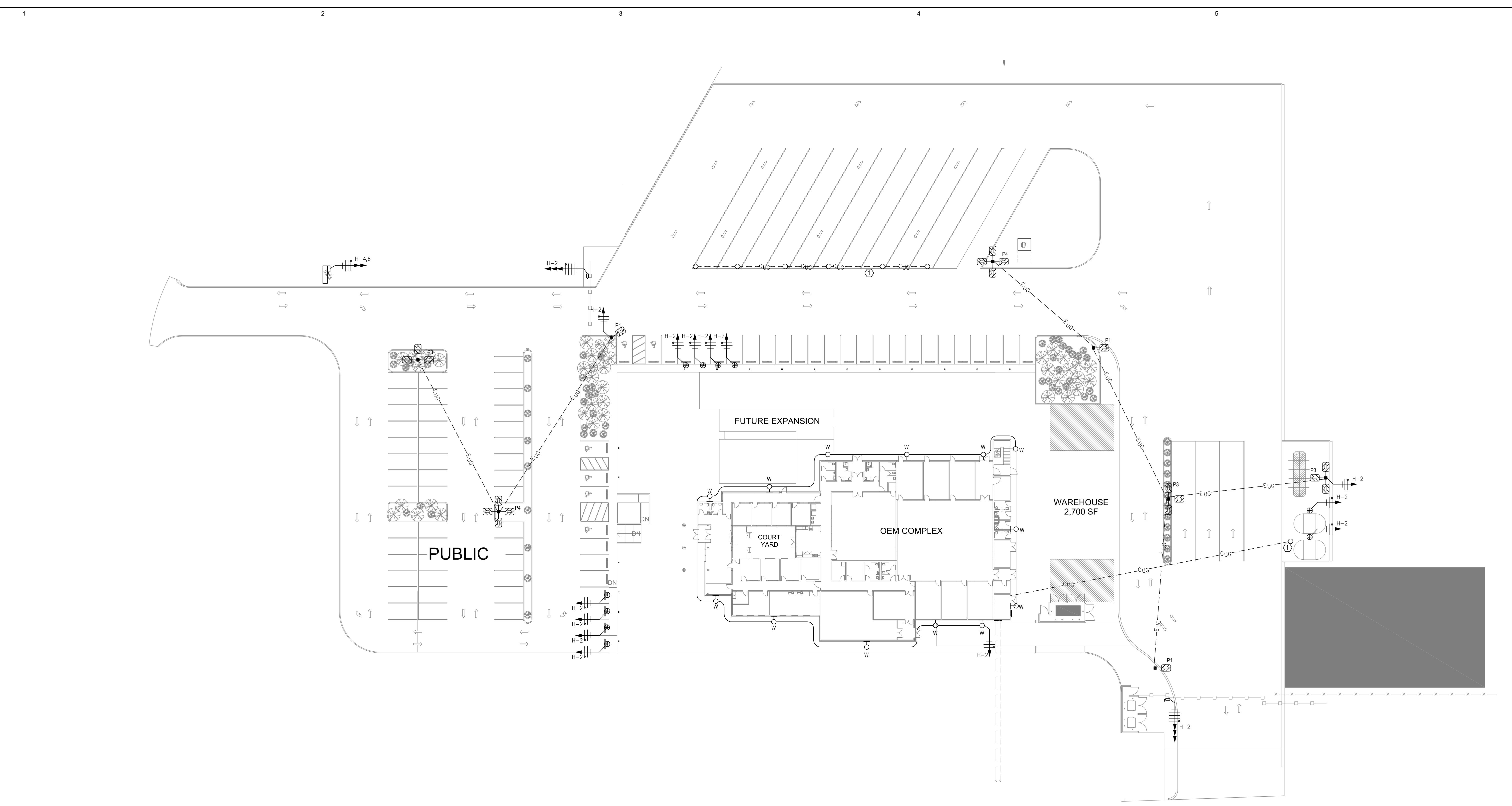
OEM EMERGENCY OPERATIONS CENTER  
TORTUGAS TRAIL, LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION
1	01-03-25	ISSUE

PROJECT NO.: 22115L  
FILE NAME:  
DRAWN BY: M.C.  
CHECKED BY: J.M.  
SHEET TITLE:

ELECTRICAL  
SITE PLAN  
SHEET NO:  
E-101



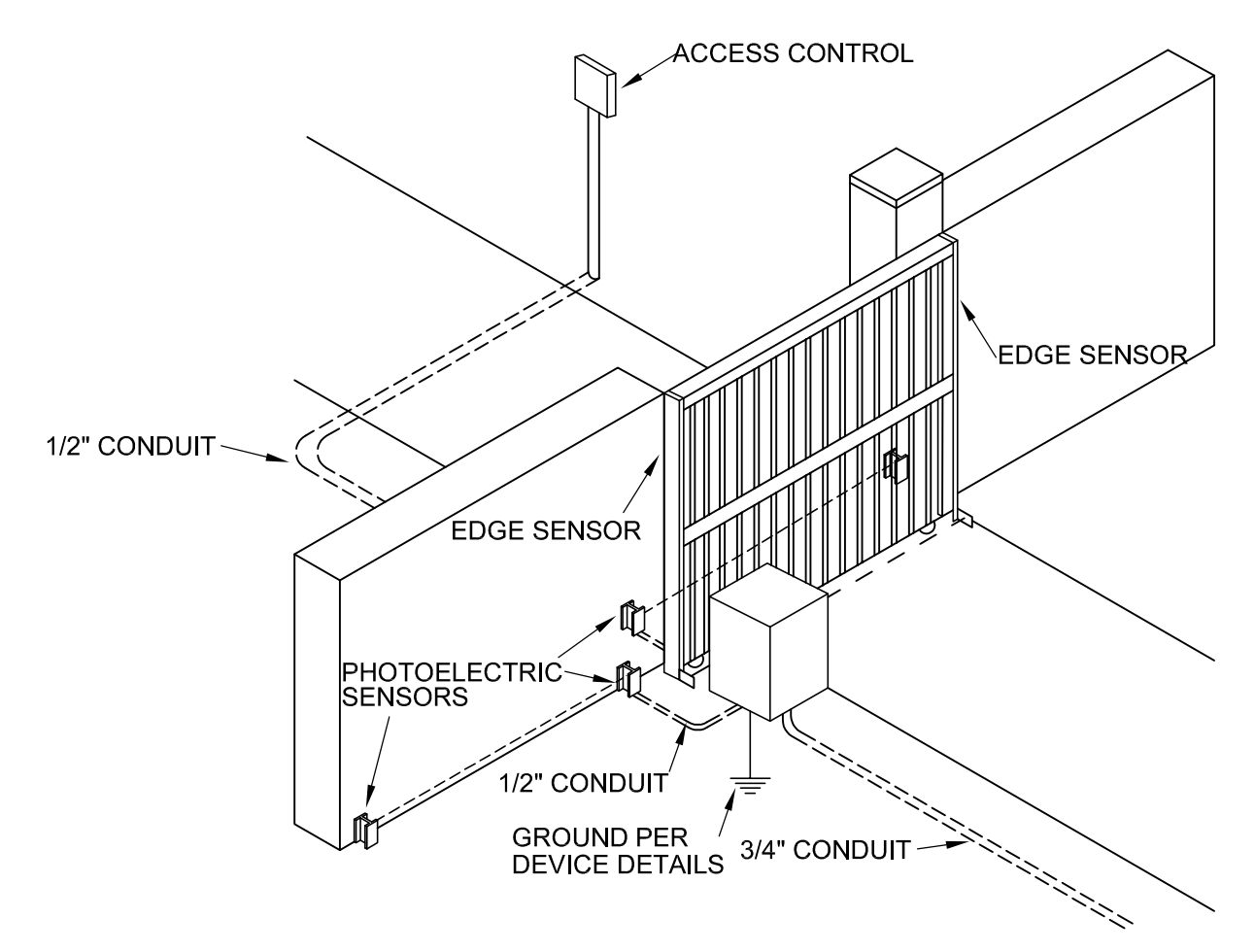
LIGHTING FIXTURE SCHEDULE								
TYPE	MANUFACTURER/MODEL NO.	VOLTAGE	LED LAMP INFO		COLOR	MOUNTING	MOUNTING HEIGHT	NOTES
			WATTAGE	TEMP.				
P1	Visionaire #VMX-II_T4_80LC_7_4K_UNV_AM_BZ	UNV	177W LED	40K	WHT	POLE	33'	
P3	Visionaire #VMX-II_T4_80LC_7_4K_UNV_AM_BZ	UNV	531W LED	40K	WHT	POLE	33'	
P4	Visionaire #VMX-II_T4_80LC_7_4K_UNV_AM_BZ	UNV	708W LED	40K	WHT	POLE	33'	
W	Visionaire #WMS-1_T4_48LC_5_4K_UNV_WM_BZ	UNV	78W LED	40K	WHT	WALL	12'	

NOTES: [1] PROVIDE WITH 90 MIN. MINIMUM POWER LIFE BATTERY  
[2] REMOTE MOUNTED EMERGENCY HEAD, CONNECT TO INTERIOR EXIT SIGN.  
[3] COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT

GENERAL NOTES:  
[A] FIXTURES SELECTED BASED ON PERFORMANCE AND AESTHETICS.  
[B] ARCHITECT TO SELECT ALL FIXTURE FINISH/COLORS PRIOR TO ORDERING LIGHT FIXTURES.  
[C] SUBSTITUTIONS MUST BE PRE-APPROVED. PROVIDE SUBSTITUTION SUBMITTALS FOR REVIEW 10 BUSINESS DAYS PRIOR TO BID DATE.  
[D] CONTRACTOR MUST PROVIDE FULL PHOTOMETRIC STUDIES ON SUBSTITUTION FIXTURES.

1  
E-101  
ELECTRICAL SITE PLAN  
1" = 30'-0"

KEYED NOTES Ⓢ  
1. 1-1/2" ELECTRICAL CONDUIT TO BE RUN TO SEMI TRUCK PARKING. FIELD VERIFY LOCATION WITH ARCHITECT/OWNER BEFORE COMMENCING ANY WORK.



1  
E-101  
TYPICAL GATE SCHEMATIC  
NTS

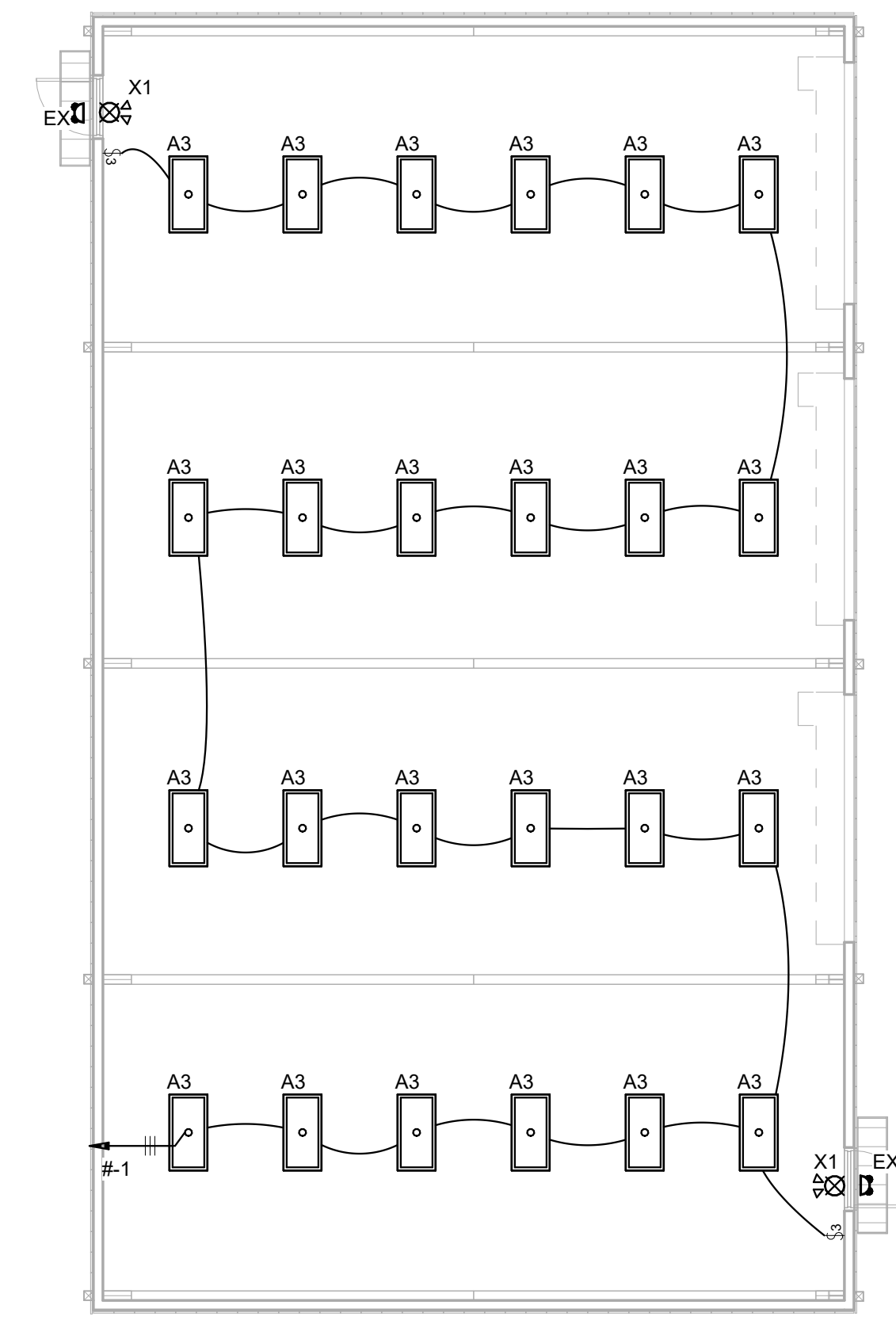


1 LIGHTING PLAN  
E-200  
1/8" = 1'-0"

TYPE	MANUFACTURER/MODEL NO.	VOLTAGE	LED LAMP INFO		COLOR	MOUNTING	MOUNTING HEIGHT	NOTES
			WATTAGE	TEMP.				
A	LITETRONICS VLFT4 EB10EBCM	UNV	27W LED		WHT	LAY-IN	8'	
A1	LITETRONICS VLFT4 EB10EBCM	UNV	27W LED		CBA	LAY-IN	10'	
A2	LUMAX LGHLED198L4K24 9FC1RS EM2	UNV	152W LED		CBA	LAY-IN	18'	
A3	LUMAX LGLED101L4K24 9FARS EM2	UNV	86W LED		CBA	LAY-IN	15'	
B	NAL AIR 22 DM 04W EM S0854 LBN	UNV	49W LED		CBA	LAY-IN	9'8"	
B1	LITETRONICS PT2 EB10 EBCM	UNV	36W LED		CBA	LAY-IN	9'4"	
B2	LITETRONICS PT2	UNV	36W LED		CBA	LAY-IN	10'	
C1	LITETRONICS PT1 EB10 EBCM	UNV	30W LED		CBA	SURFACE	9'4"	
C2	LITETRONICS PT1 EB10 EBCM	UNV	30W LED		CBA	SURFACE	8'	
D	LIGHTOLIER 6RN UNV Z6RDL 35940 W O CD EU	UNV	37W LED		CBA	RECESSED		
F	DAYBRITE SF4 C 42A 40 U DZT US EMLD	UNV	32W LED		CBA	WALL		
X1	EELP XCLB2RW	UNV	INCLUDED		WH	CEILING/WALL	ABOVE DOOR	[1]
EL	EELP EM5 LED WH	UNV	INCLUDED		WH	WALL	8FT A.F.F.	[1]
EX	EELP DEM LED BR ACEM PC	UNV	INCLUDED		WH	WALL	ABOVE DOOR	[2]

NOTES: [1] PROVIDE WITH 90 MIN. MINIMUM POWER LIFE BATTERY  
 [2] REMOTE MOUNTED EMERGENCY HEAD, CONNECT TO INTERIOR EXIT SIGN.  
 [3] COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT

GENERAL NOTES:  
 [A] FIXTURES SELECTED BASED ON PERFORMANCE AND AESTHETICS.  
 [B] ARCHITECT TO SELECT ALL FIXTURE FINISH/COLORS PRIOR TO ORDERING LIGHT FIXTURES.  
 [C] SUBSTITUTIONS MUST BE PRE-APPROVED. PROVIDE SUBSTITUTION SUBMITTALS FOR REVIEW 10 BUSINESS DAYS PRIOR TO BID DATE.  
 [D] CONTRACTOR MUST PROVIDE FULL PHOTOMETRIC STUDIES ON SUBSTITUTION FIXTURES.



2 WAREHOUSE  
E-200  
1/8" = 1'-0"

KEYED NOTES

100% DESIGN DEVELOPMENT NOT FOR CONSTRUCTION

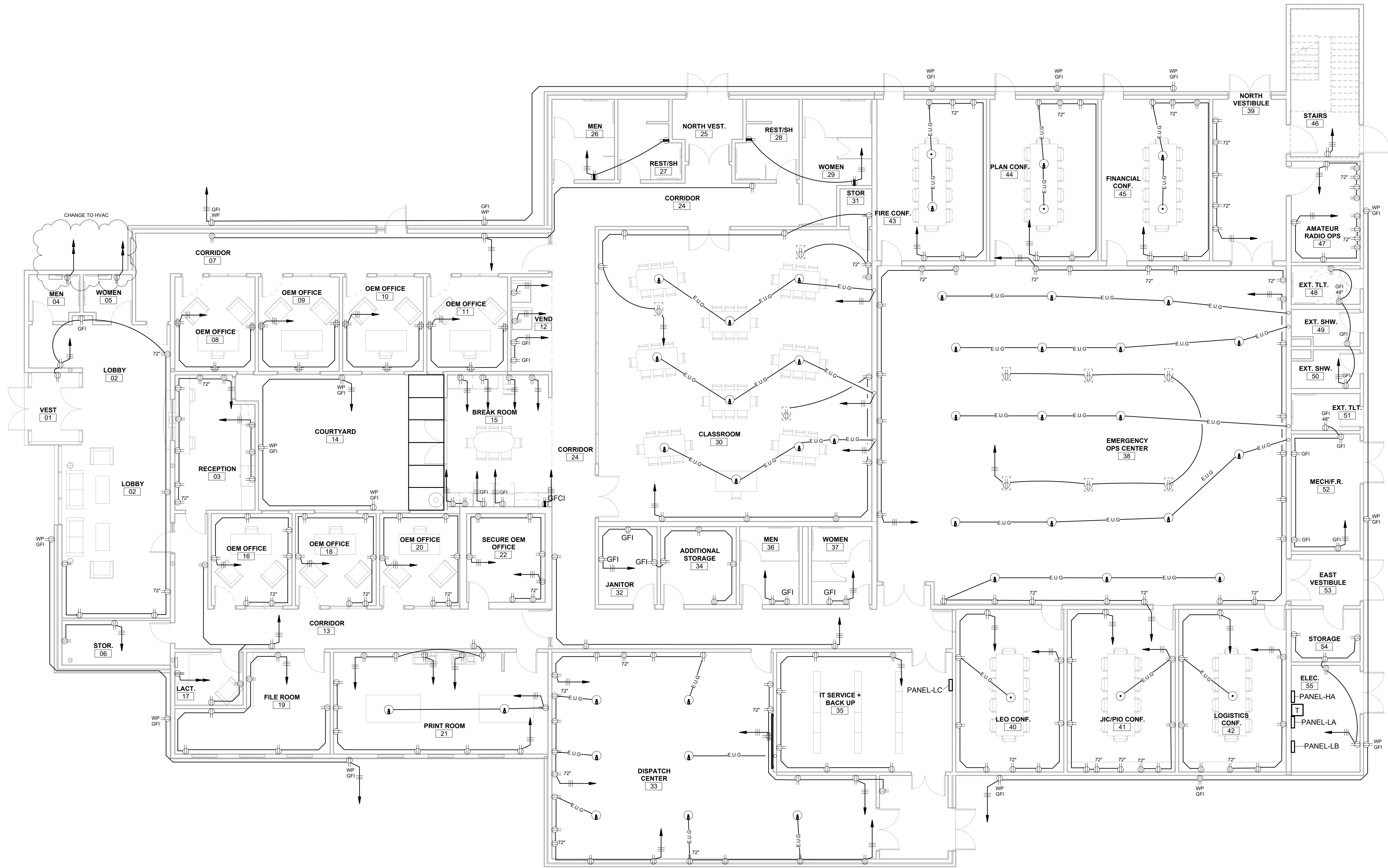
**OEM EMERGENCY OPERATIONS CENTER**  
 TORTUGAS TRAIL, LAS CRUCES, NM  
 FOR: DOÑA ANA COUNTY  
 845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION	ISSUE
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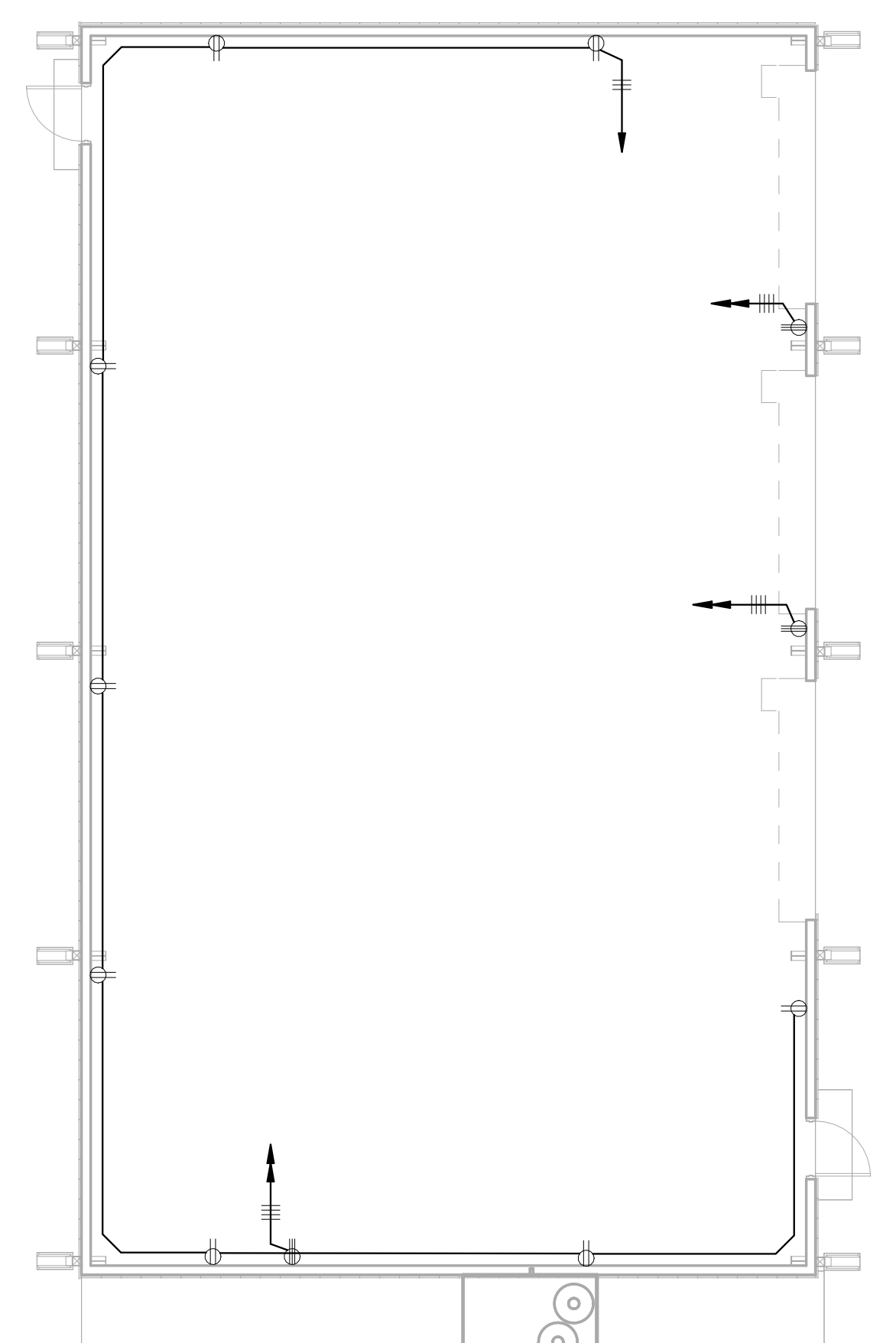
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1 POWER PLAN  
E-300 1/8" = 1'-0"



2 WAREHOUSE POWER PLAN  
E-300 1/8" = 1'-0"

KEYED NOTES

100% DESIGN DEVELOPMENT NOT FOR CONSTRUCTION

**OEM EMERGENCY OPERATIONS CENTER**  
TORTUGAS TRAIL, LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

MARK	DATE	DESCRIPTION	ISSUE
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100% DESIGN DEVELOPMENT NOT FOR CONSTRUCTION

OEM EMERGENCY OPERATIONS CENTER  
TORTUGAS TRAIL, LAS CRUCES, NM

FOR:  
DOÑA ANA COUNTY  
845 N MOTEL BLVD., LAS CRUCES, NM 88007

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01-03-25  
**RAXIS**  
ENGINEERING  
QUALITY DESIGN AND INNOVATIVE SOLUTIONS  
CLC-23-058

CEILING HVAC POWER  
SHEET NO: E-400



FOR THIS PAGE ONLY

### DATA/COMMUNICATIONS SYMBOL LEGEND

SYMBOL	DESCRIPTION
	DATA/COMMUNICATIONS J-BOX; PROVIDE J-BOX IN WALL, 4" SQ. DEEP J-BOX WITH SINGLE GANG PLASTER RING, STUBB UP 1" WITH PULLSTRING AND BUSHINGS TO CABLE TRAY.
	INTRUSION ALARM MOTION SENSOR.
	INTRUSION ALARM CONTROL PANEL.
	INTRUSION ALARM KEY PAD.
	CEILING MOUNTED FIRE ALARM HORNS/STROBE, NUMBER DENOTES 1/2 RATING, PROVIDE 4" SQ. DEEP J-BOX WITH SINGLE GANG PLASTER RING, 1" CONDUIT TO ACCESSIBLE CEILING.
	STROKE, NUMBER DENOTES 1/2 RATING, PROVIDE 4" SQ. DEEP J-BOX WITH SINGLE GANG PLASTER RING, 1" CONDUIT TO ACCESSIBLE CEILING.
	FULL STATION WITH STOPPER, PROVIDE 4" SQ. DEEP J-BOX WITH SINGLE GANG PLASTER RING, 1" CONDUIT TO ACCESSIBLE CEILING.
	FIRE ALARM CONTROL PANEL WITH DIGITAL NOTIFIER
	FIRE ALARM REMOTE ANNUNCIATOR
	12" WIDE X 4" DEEP CABLE TRAY, PROVIDE J-HOOKS ALONG CABLE TRAY FOR FIRE ALARM, P.A., AND SECURITY WIRING.
	WIRELESS ACCESS POINT, ROUTER BY OTHERS PROVIDE DATA/COMMUNICATIONS DEVICE, PROVIDE J-BOX IN WALL, 4" SQ. DEEP J-BOX WITH SINGLE GANG PLASTER RING, STUBB UP 3/4" WITH 4 CAT 6 CABLES AND TERMINATE AT NEW DATA PATCH PANEL AT NEW IT ROOM.
	CCTV CAMERA, BY OTHERS, PROVIDE 4" SQ. DEEP J-BOX WITH SINGLE GANG PLASTER RING, STUBB 3/4" CONDUIT WITH PULLSTRING TO CABLE TRAY OR IT ROOM.
	DOOR LOCK DOWN SYSTEM
	SPRINKLER TAMPER SWITCH
	SPRINKLER FLOW SWITCH

### KEYED NOTES

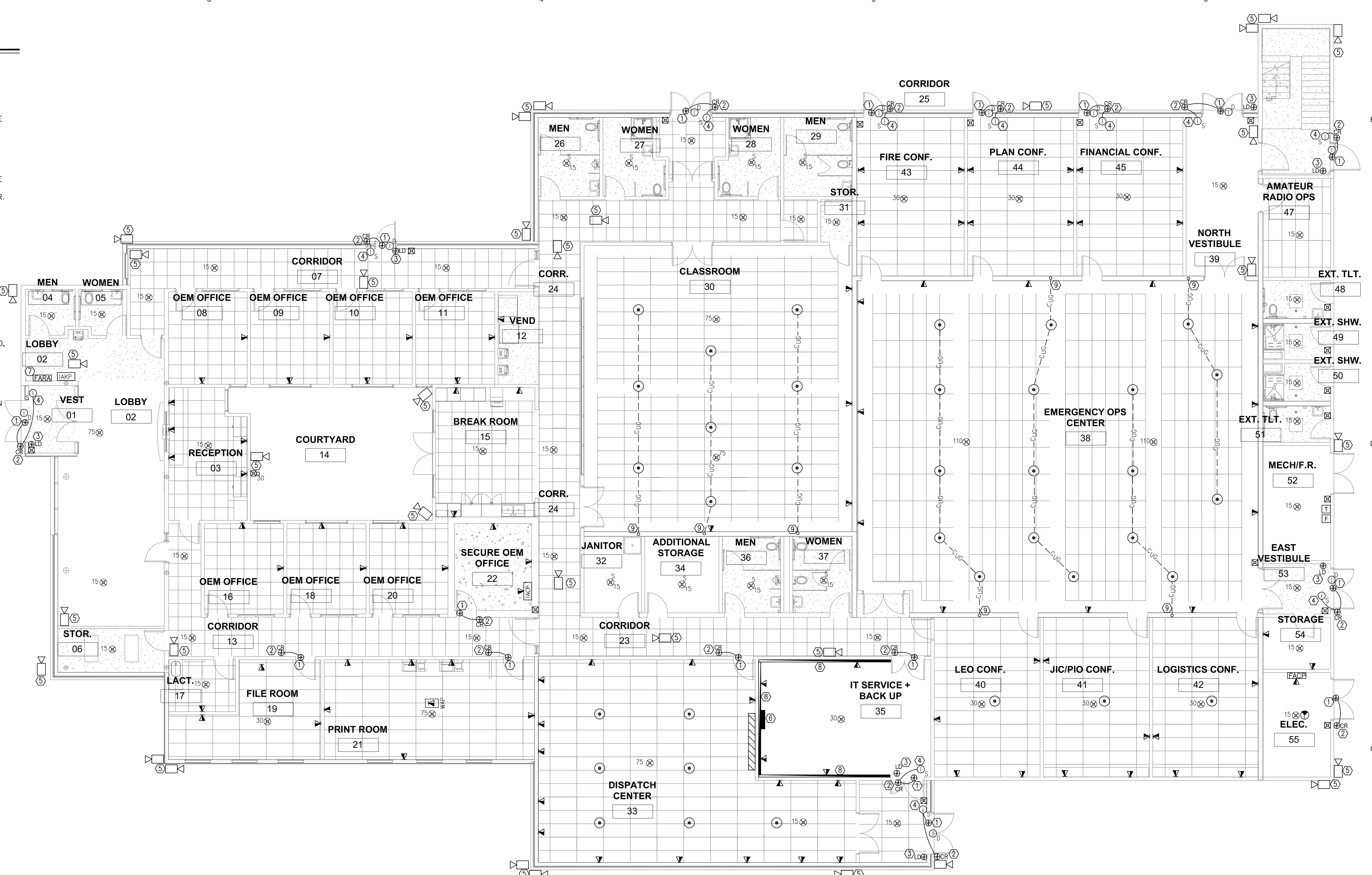
- PROVIDE AND INSTALL J-BOX FOR DOOR STRIKE MAGLOCK, STUBB 3/4" CONDUIT WITH PULLSTRING TO I.T. ROOM, COORDINATE WITH ACCESS CONTROL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO COMMENCING ANY WORK.
- PROVIDE AND INSTALL J-BOX ON ALUMINUM FRAME AT 48" A.F.F. FOR CARD READER, UTILIZE MT15 CARD READER, PROVIDE ELECTRICAL STRIKE WITH BATTERY BACK UP POWER, COORDINATE WITH IT/OWNER DEPARTMENT FOR EXACT REQUIREMENTS PRIOR TO COMMENCING ANY WORK.
- PROVIDE AND INSTALL J-BOX ON ALUMINUM FRAME AT 48" A.F.F. FOR LOCK DOWN SYSTEM, PROVIDE ELECTRICAL STRIKE WITH BATTERY BACK UP POWER, COORDINATE WITH IT DEPARTMENT FOR EXACT REQUIREMENTS PRIOR TO COMMENCING AN WORK.
- PROVIDE AND INSTALL J-BOX FOR DOOR CONTACT, STUBB 3/4" CONDUIT WITH PULSTRING TO I.T. ROOM, COORDINATE WITH OWNER/ACCESS CONTROL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO COMMENCING ANY WORK.
- PROVIDE AND INSTALL J-BOX ON WALL FOR CCTV CAMERA, VERIFY LOCATION WITH OWNER/SECURITY CONTRACTOR PRIOR ROUGH-IN, STUBB 3/4" CONDUIT WITH PULLSTRING TO CABLE TRAY OR IT ROOM.
- CONTRACTOR TO PROVIDE AND INSTALL GROUND BAR FOR THE IT ROOM, REFER TO DETAIL 4/E-500, VERIFY LOCATION BEFORE COMMENCING ANY WORK.
- PROPOSED LOCATION OF FIRE ALARM REMOTE ANNUNCIATOR.
- INSTALL 4"x8"x3/8" SHEETS FOR FIRE RESISTANT PLYWOOD ON THREE WALLS OF IT ROOM AS SHOWN FOR TELEPHONE BOARD, COORDINATE WITH OWNER FOR EXACT LOCATION, INSTALL GROUND BAR WITH #6 CU. GND. TO BUILDING STEEL.
- RISE TO ABOVE ACCESSIBLE CEILING WITH 1" CONDUIT WITH PULLSTRING.

### COMMUNICATIONS GENERAL NOTES:

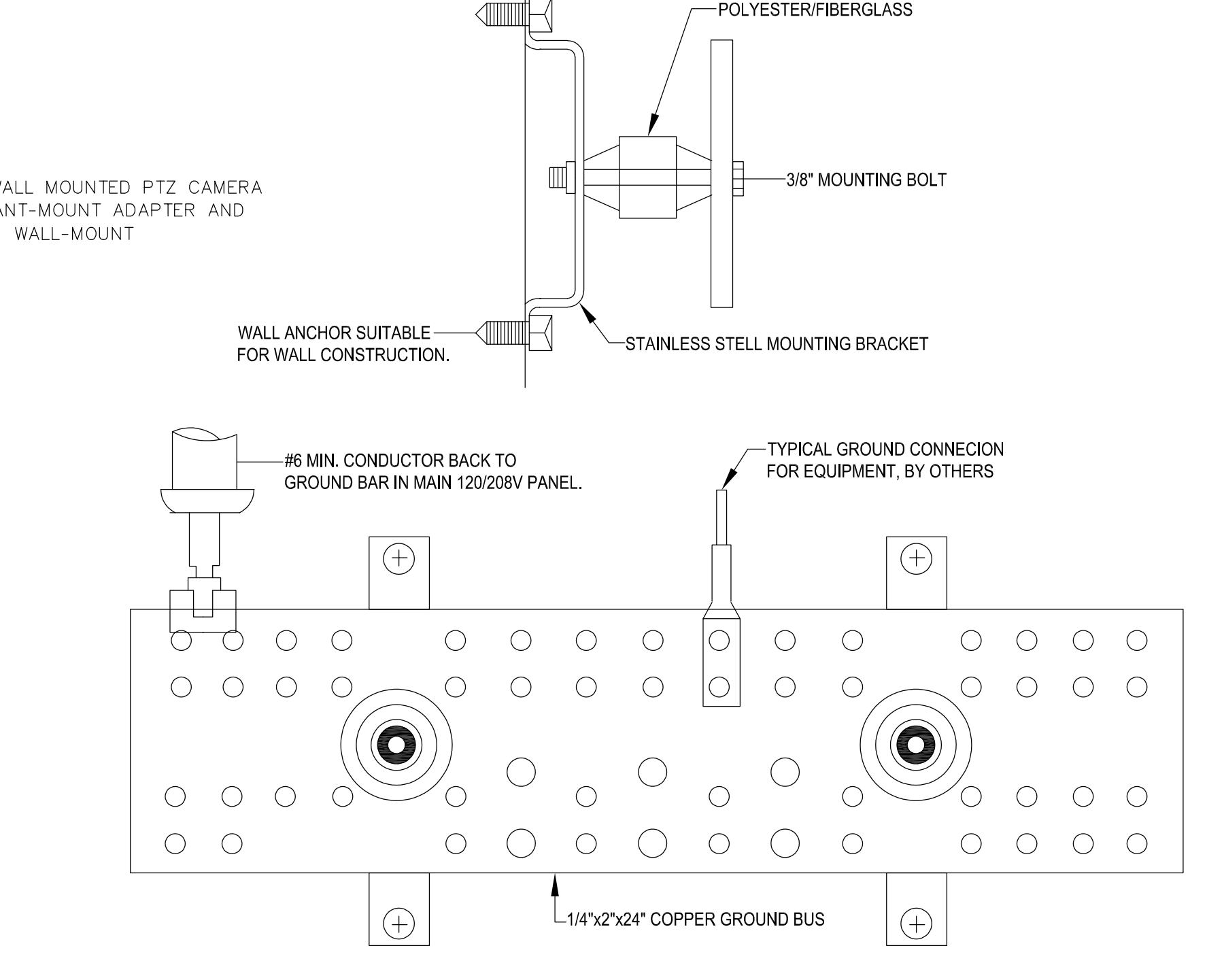
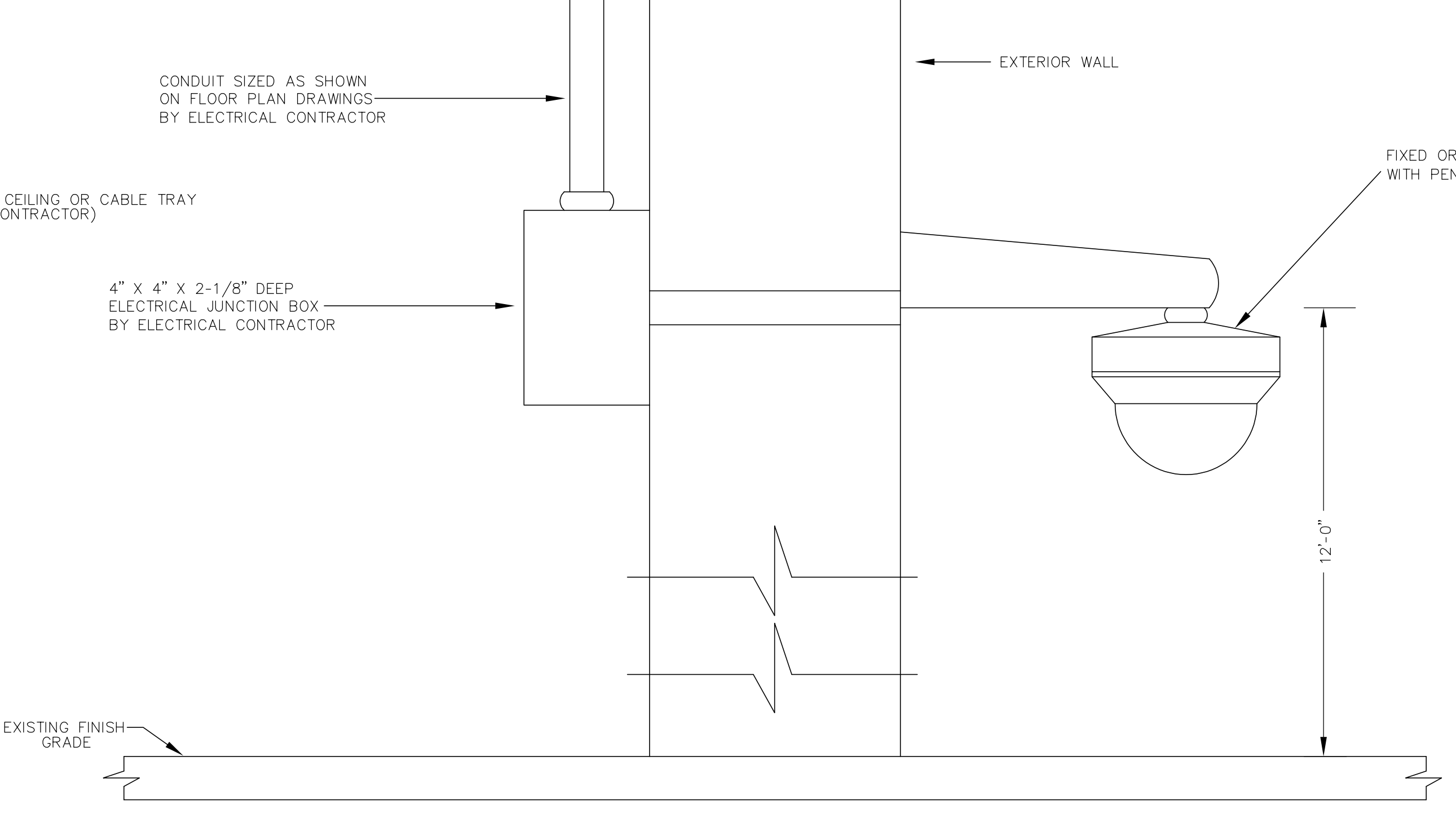
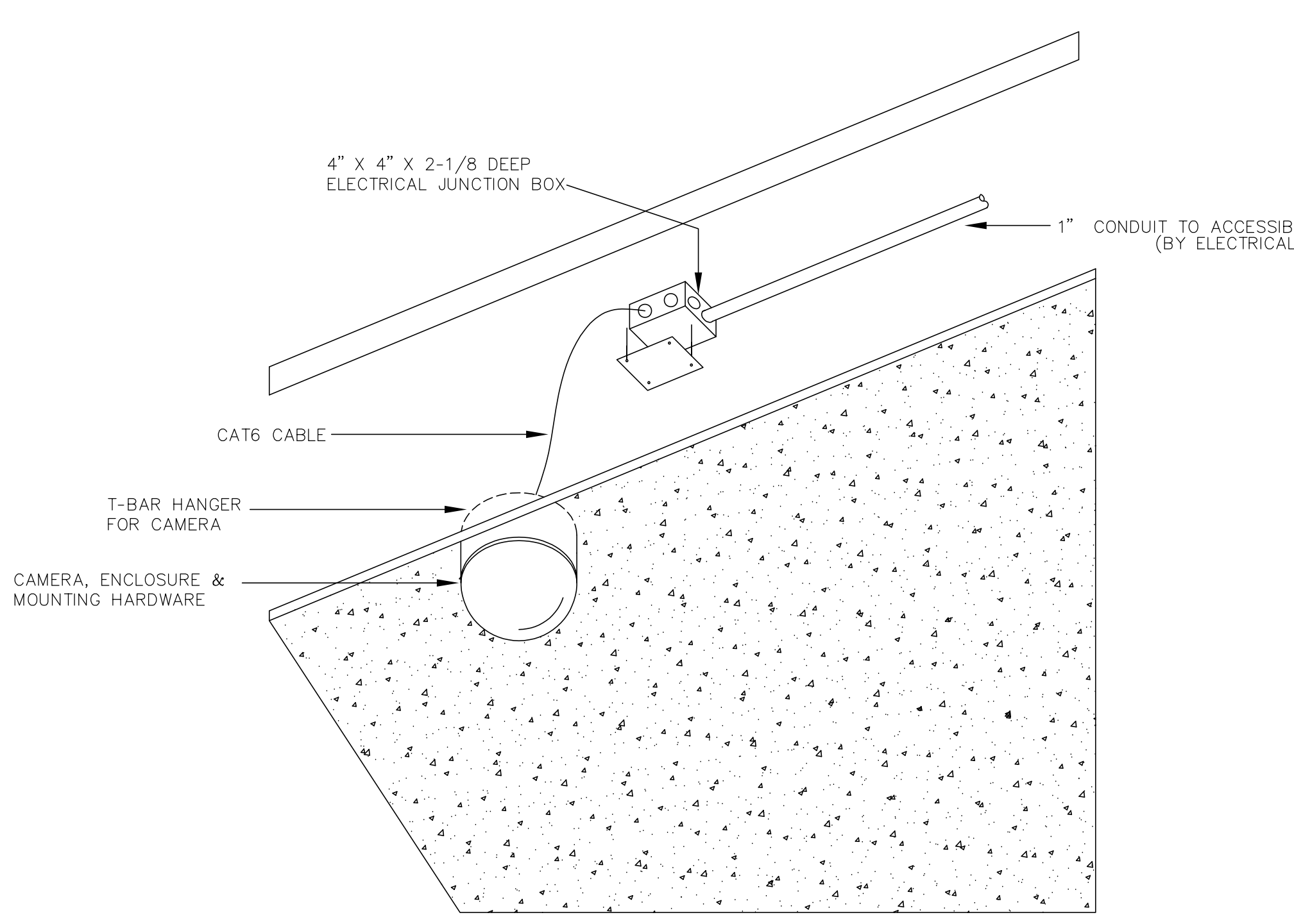
- CONTRACTOR MUST INSTALL ALL COMMUNICATIONS CABLING, INCLUDING BUT NOT LIMITED TO: CABLES, CONNECTORS, FACEPLATES, COMMUNICATIONS RACKS IN IT ROOM FOR PATCH PANEL 48 PORT CAT 6 PATCH PANELS, AND GROUNDING, INSTALL PER DOA ANA COUNTY TECHNOLOGY DESIGN AND CONSTRUCTION STANDARDS.
- NETWORK SWITCHES, FIBER OPTIC PATCH PANEL, FIBER OPTIC CABLE, AND NETWORK SWITCHES RACK TO BE INSTALLED AND PROVIDED BY OWNER.
- ALL COMMUNICATIONS CABLING MUST BE AN END TO END SOLUTION, INSTALLATION MUST CONFORM TO LATEST TIA STANDARDS.
- INSTALLER MUST WARRANTY THE DATA CABLING FOR A 1 YEAR PERIOD.
- ALL CABLES AND TERMINATION POINTS INSTALLED MUST BE TESTED AND CERTIFIED.
- CONTRACTOR MUST PROVIDE AND INSTALL ONE BLUE 5FT CAT6, NON-BOOTED, PATCH CORD FOR EVERY PORT TERMINATED IN THE LAN CLOSET, VERIFY WITH OWNER.
- CONTRACTOR TO LABEL ALL WIRING WITH PORT NUMBER EACH CABLE IS TERMINATED AT.
- PROVIDE A COMPLETE CCTV SYSTEM TO INCLUDE WIRING, CAMERAS, DVR AND ALL REQUIRED SOFTWARE AND LICENSES.
- CONTRACTOR TO PROVIDE A FULL WORKING PUBLIC ADDRESS SYSTEM TO INCLUDE BUT NOT LIMITED TO CONSOLE, SPEAKERS, WIRING.
- CONTRACTOR TO PROVIDE A FULL WORKING ACCESS CONTROL SYSTEM TO INCLUDE BUT NO LIMITED TO CONTROL PANELS, CARD READERS, WIRING, DOOR HARDWARE.

### FIRE ALARM GENERAL NOTES

- FIRE ALARM INSTALLER TO INSTALL SYSTEM TO MEET ALL NATIONAL AND LOCAL FIRE CODES (I.e. NEC 760 AND NFPA), INSTALLER TO SUBMIT TO ARCHITECT "AS BUILT"
- FIRE ALARM INSTALLER TO COORDINATE AND CONNECT SMOKE DETECTION SYSTEM TO A/C DUCT SYSTEM.
- FIRE ALARM INSTALLER CAN SUBSTITUTE FIRE ALARM FIXTURES FOR OTHERS OF EQUAL PERFORMANCE.
- F.A. INSTALLER MUST BE CERTIFIED BY THE STATE AND SUBMIT ALL REQUIRED PLANS AND DRAWINGS, F.A. SYSTEM CALCULATIONS AND ALL APPLICABLE SUBMITTALS TO THE GOVERNING AUTHORITIES TO OBTAIN A PERMIT.
- THE F.A. INSTALLER MUST BID ON A COMPLETE F.A. SYSTEM THAT COMFORMS TO ALL APPLICABLE CODES.
- CONTRACTOR MUST VISIT SITE BEFORE BIDDING ON THIS PROJECT AND ALLOW FOR ANY MODIFICATIONS OR ADDITIONS NEEDED TO BE DONE ON THE EXISTING FIRE ALARM PANEL TO ACCOMMODATE ALL NEW DEVICES IN THE NEW ADDITION.
- CONTRACTOR MUST MAKE ALL FINAL CONNECTIONS AND TEST THE SYSTEM IN THE PRESENCE OF BUILDING PERSONNEL OR ENGINEER.
- PROVIDE AFCI PROTECTION TO ALL CIRCUITS THAT SERVE ANY FIRE ALARM PANEL OR DEVICE.



### SPECIAL SYSTEMS



2 TYPICAL INTERIOR WALL MOUNT SECURITY E-500 NTS

3 TYPICAL EXTERIOR WALL MOUNT SECURITY E-500 NTS

4 GROUNDING BAR DETAIL E-500 NTS

OEM EMERGENCY OPERATIONS CENTER  
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**RAXIS**  
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QUALITY DESIGN AND INNOVATIVE SOLUTIONS

PROJECT NO. 22115L  
SHEET NO. E-500  
CLC-23-058

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