

2012 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2- FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: DOBSON EQUIPMENT SHOP
Address: SURRY COUNTY, NORTH CAROLINA Zip Code: _____
Proposed Use: EQUIPMENT & VEHICLE REPAIR AND MAINTENANCE (STORAGE)
Owner/Authorized Agent: FACILITIES MANAGEMENT DIVISION, NCDOT Phone # 919-707-4560 E-Mail: _____
Owned By: STATE OF NORTH CAROLINA ☐ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☐ City ☐ County ☐ State

LEAD DESIGN PROFESSIONAL: R. DAVID APPELYARD, JR., AIA, NCARB, CSI
DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL
Architectural EBA ARCHITECTS, P.A. DAVID APPELYARD 6641 (336) 725-1361 dappleyard@ebaarchitects.com
Civil WEST CONSULTANTS, INC. TODD POTEET P-0210 (828) 433-5661 tpoteet@west-consultants.com
Electrical BRITTAIN ENGINEERING DONALD R. BRITTAIN 7883 (828) 328-1813 dbrittain@brittainengineering.com
Fire Alarm
Plumbing BRITTAIN ENGINEERING DONALD R. BRITTAIN 7883 (828) 328-1813 dbrittain@brittainengineering.com
Mechanical BRITTAIN ENGINEERING DONALD R. BRITTAIN 7883 (828) 328-1813 dbrittain@brittainengineering.com
Sprinkler-Standpipe
Structural NCDOT MIKE MOUNTCASTLE 17326 (919) 707-4547 mdmountcastle@ncdot.gov
Retaining Walls >5' High WEST CONSULT. TODD POTEET P-0210 (828) 433-5661 tpoteet@west-consultants.com
Other

2012 EDITION OF NC CODE FOR: ☐ New Construction ☐ Addition ☐ Uplift
EXISTING: ☐ Reconstruction ☐ Alteration ☐ Repair ☐ Renovation
CONSTRUCTED (date): _____ ORIGINAL USE(S)(Ch. 3): _____
RENOVATED (date): _____ CURRENT USE(S)(Ch. 3): _____ PROPOSED USE(S)(Ch. 3): _____

BASIC BUILDING DATA
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☐ I-B ☐ II-B ☐ III-B ☐ V-B
Sprinklers: ☐ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☐ No ☐ Yes ☐ Class I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☐ No ☐ Yes (Primary) Flood Hazard Area: ☐ No ☐ Yes
Building Height: Feet 24'-10"
Gross Building Area:
FLOOR EXISTING (SQ FT) NEW (SQ FT) RENO/ALTER (SQ FT) SUB-TOTAL
Mezzanine 2,171 2,171
1st Floor 9,495 9,494
TOTAL 11,666 11,666

ALLOWABLE AREA
Occupancy: ☐ Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5 ☐ Business ☐ Educational ☐ Factory ☐ F-1 ☐ Moderate ☐ F-2 ☐ Low ☐ Hazardous ☐ H-1 ☐ Detonate ☐ H-2 ☐ Deflagrate ☐ H-3 ☐ Combat ☐ H-4 ☐ Health ☐ H-5 ☐ HPM
Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4 ☐ I-5
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ Mercantile ☐ Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 ☐ Moderate ☐ S-2 ☐ Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage ☐ Utility and Miscellaneous
Accessory Occupancies: N/A
Incidental Uses (Table 508.2.5): N/A
Special Uses: N/A
Special Provisions: N/A
Mixed Occupancy: ☐ No ☐ Yes Separation: _____ Hr. Exception: _____
Incidental Use Separation (508.2.5): N/A

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 AREA	(C) AREA FOR OPEN SPACE INCREASE ¹	(D) AREA FOR SPRINKLER INCREASE ²	(E) ALLOWABLE AREA OR UNLIMITED ³	(F) MAXIMUM BUILDING AREA ⁴
Mezzanine	Storage(S-1)	2,177	N/A	NOT USED	NOT USED	1/3 RM=2,481	2,481
1	Storage(S-1)	9,495	17,500	NOT USED	NOT USED	17,500	17,500

ALLOWABLE HEIGHT				
	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type III-B		Type III-B	503
Building height in feet	26'-5"	Feet=H+20'÷ Stories+1=	Feet 24'-10"	503
Building Height in Stories	2	N/A	Stories 1	503

FIRE PROTECTION REQUIREMENTS							
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/ RATIO REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural frame, including columns, girders, trusses	—	0	0	—	—	—	—
Bearing walls							
Exterior							
North	30	0	0	—	—	—	—
East	30	0	0	—	—	—	—
West	30	0	0	—	—	—	—
South	30	0	0	—	—	—	—
Interior	—	0	0	—	—	—	—
Nonbearing Walls and Partitions							
Exterior Walls							
North	30	0	0	—	—	—	—
East	30	0	0	—	—	—	—
West	30	0	0	—	—	—	—
South	30	0	0	—	—	—	—
Interior Walls and partitions	—	0	0	—	—	—	—
Floor construction including supporting beams and joist	—	0	0	—	—	—	—
Roof construction including supporting beams and joist	—	0	0	—	—	—	—
Shaft Enclosures—Exit	—	N/A	—	—	—	—	—
Shaft Enclosures—Other	—	N/A	—	—	—	—	—
Corridor Separation	—	N/A	—	—	—	—	—
Occupancy Separation	—	N/A	—	—	—	—	—
Party/Fire Wall Separation	—	N/A	—	—	—	—	—
Smoke Barrier Separation	—	N/A	—	—	—	—	—
Tenant Separation	—	N/A	—	—	—	—	—
Incidental Use Separation	—	N/A	—	—	—	—	—

* Indicate section number permitting reduction

LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes
Fire Alarm: ☐ No ☒ Yes
Smoke Detection Systems: ☐ No ☒ Yes ☐ Partial
Panic Hardware: ☐ No ☒ Yes

LIFE SAFETY PLAN REQUIREMENTS
Life Safety Plan Sheet #: N/A

ACCESSIBLE DWELLING UNITS
(SECTION 1107)
N/A

EXIT REQUIREMENTS NUMBER AND ARRANGEMENT OF EXITS						
FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM ² NUMBER OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS ^{1,3} (SECTION 1015.2)	
	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1016.1)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
Ground Floor: S-1	2	5	300'	93'-6"	N/A	—
Mezzanine: S-1	1	1	300'	135'-4"	N/A	—

1 Corridor dead ends (Section 1017.3) * 100' Allowed to bottom of stair / 79' Actual distance.
2 Single exits (Table 1019.2)
3 Common Path of Travel (Section 1014.3)

USE GROUP OR SPACE DESCRIPTION	(A)		(B)		(C)		EXIT WIDTH (in) ^{2,3,4,5,6}			
	AREA ¹ SQ. FT.	AREA ¹ PER OCCUPANT (TABLE 1004.1.2)	CALCULATED OCCUPANT LOAD	EGRESS WIDTH PER OCCUPANT (TABLE 1005.1)	REQUIRED WIDTH (SECTION 1005.1) (a+b)yc	ACTUAL WIDTH SHOWN ON PLANS	STAIR	LEVEL	STAIR	LEVEL
Storage/Mezz	11,346	300	38	N/A	.2	N/A	7.6"	N/A	180"	
Office	320	100	3	N/A	.2	N/A	.7"	N/A	72"	

ACCESSIBLE PARKING (SECTION 1106)						
LOT OR PARKING AREA	TOTAL# OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 13' ACCESS AISLE	8' ACCESS AISLE	
CARS	N/A	4	0		1	1
(REPAIR VEHICLES)	N/A	18				
TOTAL	N/A	22	0		1	1

DESIGN LOADS:
Importance Factors: Wind (I_w) 1.0
Snow (I_s) 1.0
Seismic (I_e) 1.0
Live Loads: Roof 20 psf
Mezzanine 125 psf
Floor 20 kip axle load
Ground Snow Load: 15 psf
Wind Load: Basic Wind Speed 90 mph (ASCE-7)
Exposure Category B
Wind Base Shears (for MWFRS) V_x = 30,500# V_y = 49,000#
SEISMIC DESIGN CATEGORY A ☐ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) ☐ I ☒ II ☐ III ☐ IV
Spectral Response Acceleration S_s 0.396 %g S₁ 0.144 %g
Site Classification (Table 1613.5.2) ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
Data Source: ☒ Field Test ☐ Presumptive ☐ Historical Data
Basic structural system (check one)
☐ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☒ Moment Frame ☐ Inverted Pendulum
V_x = 21,000# V_y = 26,300#
Seismic base shear
Analysis Procedure ☒ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☒ Yes ☐ No
LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☒
SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) 2,000 psf
Presumptive Bearing capacity _____ psf
Pile size, type, and capacity _____
SPECIAL INSPECTIONS REQUIRED: ☐ YES ☒ NO

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)									
USE	WATERCLOSETS		URINALS	LAVATORIES		SHOWERS/TUBS	DRINKING FOUNTAINS		
	MALE	FEMALE		MALE	FEMALE		REGULAR	ACCESSIBLE	
SPACE	EXISTING	—	—	—	—	—	—	—	—
NEW	1	1*	1	1	1*	1*	1	1	1
REQUIRED	1	1	0	1	1	0	—	—	—

*UNISEX SHOWER W/ 1-WC & 1-LAV

STORAGE OCCUPANCY: (11,346/300) 38 + (320/100) 3 = 41 OCCUPANTS (6 TOTAL EMPLOYEES: ALL MALE)
FEMALE: 20 MALE: 21

SPECIAL APPROVALS: N/A

ENERGY SUMMARY					
THERMAL ENVELOPE					
Project Type: New Construction Method of Compliance: <input checked="" type="checkbox"/> Prescriptive (Energy Code)					
Building Location: Dobson, North Carolina <input type="checkbox"/> Performance (Energy Code)					
Climate Zone: <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> Prescriptive (ASHRAE 90.1)					
Building Type for Envelope Requirements: Non-Residential <input type="checkbox"/> Performance (ASHRAE 90.1)					
Vertical Glazing / Wall Area Pct.: 4% <input type="checkbox"/> Performance (ASHRAE 90.1)					
Building Type: Storage Group S-1 (Motor vehicle repair garage) Floor Area: 9,495 SF					
COMPONENT NAME / DESCRIPTION	GROSS AREA	CAVITY R-VALUE	CONT. R-VALUE	PROPOSED U-FACTOR	BUDGET U-FACTOR
Roof 1: Metal Building, Standing Seam	12,408	0.0	35.0	0.028	0.065
Exterior Wall 1: Concrete Block 8", Partially Grouted, Cells Empty, Light Density, Furring: Metal	644	0.0	9.5	0.087	0.104
Exterior Wall 2: Concrete Block 8", Partially Grouted, Cells Empty, Light Density, Furring: None	5,124	0.0	3.0	0.191	0.104
Exterior Wall 3: Metal Building Wall	3,848	0.0	15.8	0.084	0.113
Window 1: Metal Frame with Thermal Break, Double Pane with Low-E Clear, SHGC 1.00, PF 0.25	419	---	---	0.540	0.550
Door 1: Uninsulated Hollow Metal, Swinging	125	---	---	0.540	0.700
Door 2: Uninsulated Single-Layer Metal, Non-Swinging (OH)	1372	---	---	1.400	1.500
Floor 1: Slab-On-Grade, Unheated, 24" Horizontal without vertical 2 ft.	46	---	15	---	---
Floor 2: Slab-On-Grade, Unheated	366	---	---	---	---
ENVELOPE PASSES: DESIGN 8% BETTER THAN CODE					

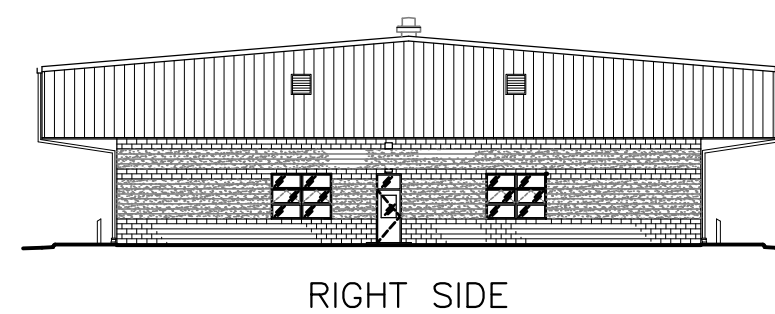
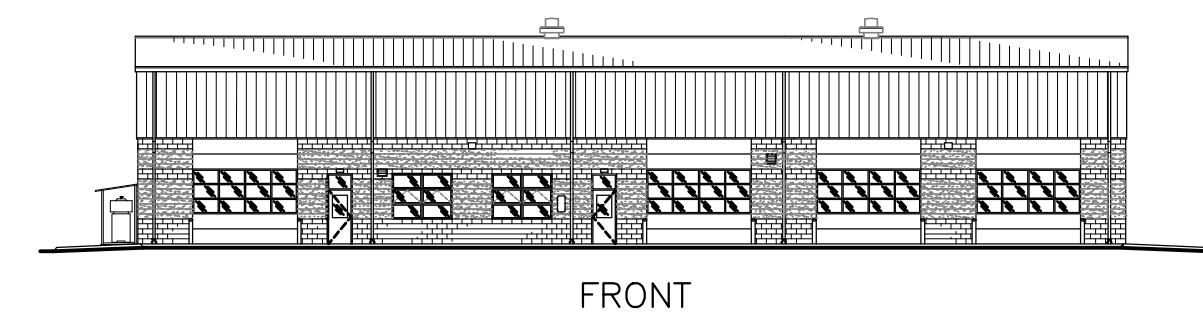
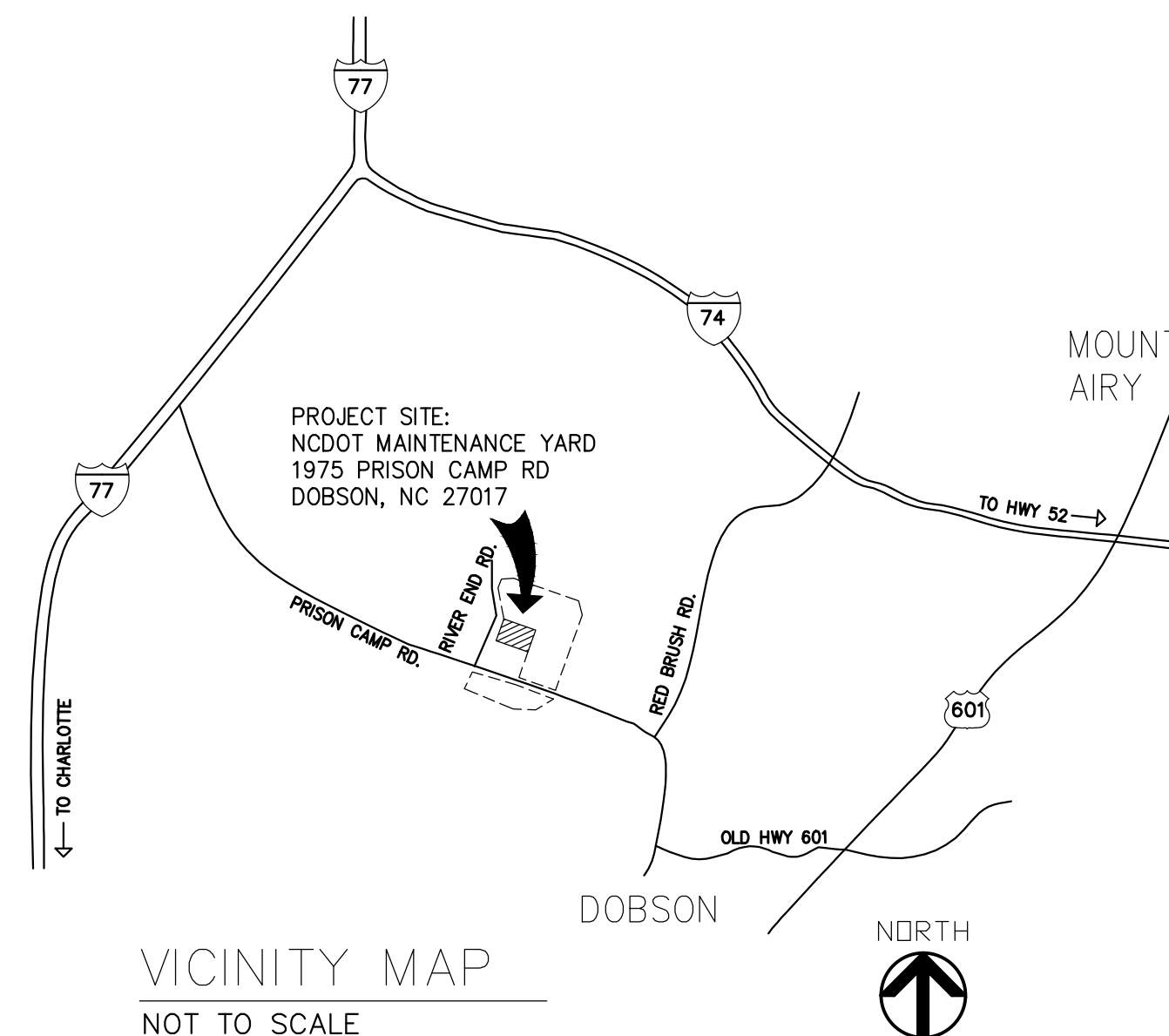
MECHANICAL SUMMARY: SEE MECHANICAL

ELECTRICAL SUMMARY: SEE ELECTRICAL

DOBSON EQUIPMENT SHOP

NC DEPARTMENT OF TRANSPORTATION SURRY COUNTY, NC

SCO ID.# 12-09354-01A



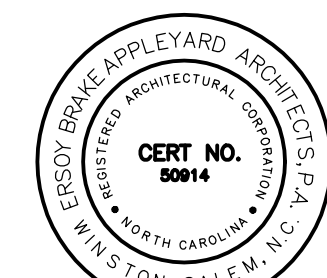
ABBREVIATIONS AND SYMBOLS

L	ANGLE, LONG/LENGTH	EA	EACH	MO	MASONRY OPENING	T	TREAD
AL	ALUMINUM	EW	EACH WAY	MATL	MATERIAL	THRU	THROUGH
ANCH	ANCHOR BOLT	ELEC	ELECTRICAL	MAX	MAXIMUM	T&G	TONGUE AND GROOVE
AFF	ABOVE FINISH FLOOR	EL	ELEVATION	MIN	MINIMUM	TLT	TOILET
ALT	ALTERNATE	ELEV	ELEVATOR	MTD	MOUNTED	TOF	TOP OF FOOTING
APRX	APPROXIMATE	EXIST	EXISTING	MLD	MOULDING	TOJ	TOP OF JOIST
ARCH	ARCHITECTURAL	EJ	EXPANSION JOINT	NIC	NOT IN CONTRACT	TOS	TOP OF STEEL
AVG	AVERAGE	EXT	EXTERIOR	NTS	NOT TO SCALE	TOW	TOP OF WALL
		EW	ELECTRIC WATER COOLER	NO	NUMBER	TRD	TREATED
BB	BACK TO BACK	FE	FIRE EXTINGUISHER ON BRACKET	OC	ON CENTER	TRWD	TREATED WOOD
BFF	BELOW FINISH FLOOR	FEC	FIRE EXTINGUISHER IN RECESSED CABINET	OPNG	OPENING	TYP	TYPICAL
BSMT	BASEMENT	FD	FLOOR DRAIN	OSB	ORIENTED STRAND BOARD	UNFIN	UNFINISHED
BRG	BEARING	FFE	FINISH FLOOR ELEVATION	PNL	PANEL	UON	UNLESS OTHERWISE NOTED
BM	BENCHMARK, BEAM	FIN FL	FINISH FLOOR	PL LAM	PLASTIC LAMINATE	VERT	VERTICAL
BLKG	BLOCKING	FTG	FOOTING	PLMB	PLUMB	VTR	VENT THROUGH ROOF
BD	BOARD	FV	FIELD VERIFY	PLWD	PLYWOOD	W	WIDE, WIDTH
BLDG	BUILDING	G	CENTERLINE	PREFAB	PREFABRICATED	W/	WITH
CAB	CABINET	GALV	GALVANIZED	PSI	POUNDS PER SQ INCH	WWF	WOVEN WIRE FABRIC
CANTL	CANTILEVER	GA	GAUGE			WD	WOOD
CB	CATCH BASIN	GL	GLASS, GLAZING				
C&G	CURB AND GUTTER	GWB	GYPSON WALL BOARD				
CIP	CAST IRON PIPE	GYP	GYPSON				
CJ	CONTROL JT, CEILING JST						
CLG	CEILING	H	HIGH, HEIGHT				
CLKG	CAULKING	HB	HOSE BIB				
CLO	CLOSET	HR	HOUR				
CMU	CONCRETE MASONRY UNIT	HM	HOLLOW METAL				
COL	COLUMN	HORIZ	HORIZONTAL				
CONC	CONCRETE	INSUL	INSULATION				
CONT	CONTINUOUS	INT	INTERIOR				
CRS	COURSES	INV	INVERT				
D	DEEP, DEPTH	JC	JANITOR'S CLOSET				
DBL	DOUBLE	JST	JOIST				
DET	DETAIL	KS	KNEE SPACE				
DIA	DIAMETER	LAV	LAVATORY				
DIAG	DIAGONAL	LB, #	POUND				
DM	DIMENSION	MFR	MANUFACTURER				
DN	DOWN	MH	MANHOLE				
DS	DOWNSPOUT						
DWL	DRYWALL						

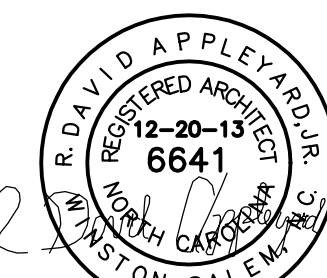
DIRECTION OF VIEW
DETAIL NUMBER
SHEET NUMBER
NAME-D6A1
DETAIL NO. SHEET NO.
KEYNOTES - SEE LEGEND
ROOM NUMBER
DOOR NUMBER
WINDOW TYPE

DRAWING SHEET INDEX

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A2 REFLECTED CEILING PLAN & MEZZANINE PLAN, DETAILS
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A4 STAIR SECTION & DETAILS
A5 EXTERIOR ELEVATIONS
A6 WALL & BUILDING SECTIONS
A7 WALL SECTIONS, WASH CURTAIN DETAILS
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M3 MECHANICAL SCHEDULES
M4 MECHANICAL DETAILS
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E3 FLOOR PLAN - LIGHTING
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E5 ELECTRICAL PANELS, LIGHTING FIXTURES
E6 ELECTRICAL DETAILS
CIVIL - SITE WORK
C1 EXISTING SITE PLAN & CONDITIONS
C2 EROSION CONTROL & GRADING PLAN
C3 SITE LAYOUT & UTILITY PLAN
C4 SITE FENCING DETAILS
C5 PROFILES, TYPICAL SECTIONS & SEWER DETAILS
C6 EROSION CONTROL & SITE DETAILS



DOBSON EQUIPMENT SHOP
HIGHWAY DIVISION 11, NCDOT
SURRY COUNTY • NORTH CAROLINA



REVISED: 12-20-2013
REVISED: _____
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CHECKED: D. APPELYARD
COMM.: 1308
SCO ID #: 12-09354-02A
DATE: 09-09-2013

T1 OF 1

DOBSON EQUIPMENT SHOP

HIGHWAY DIVISION 11, NCDOT

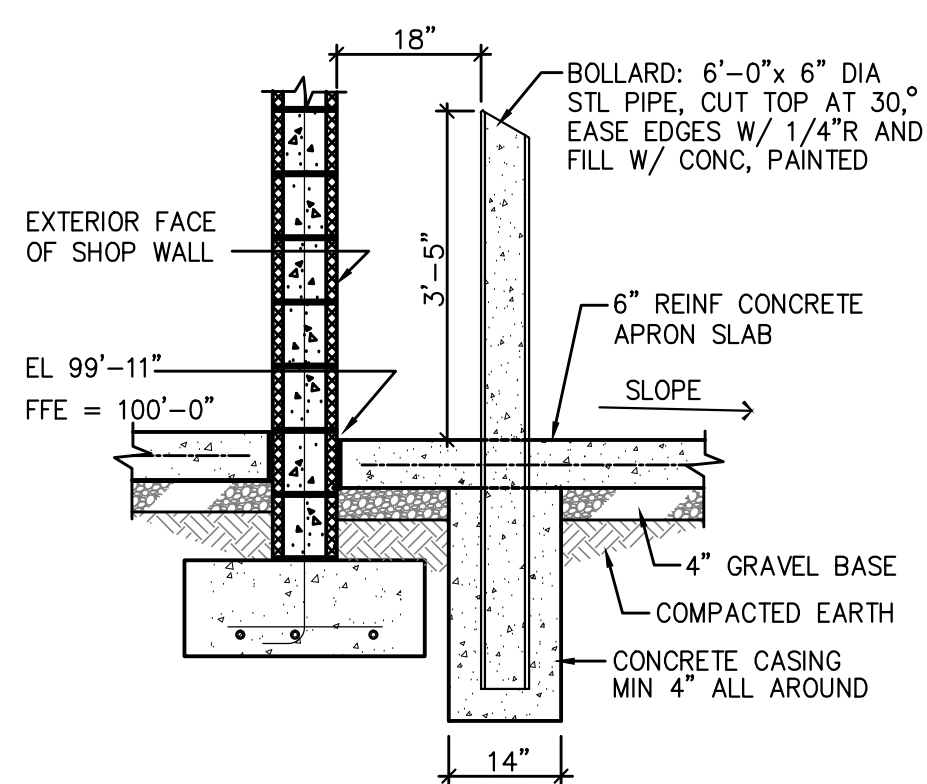
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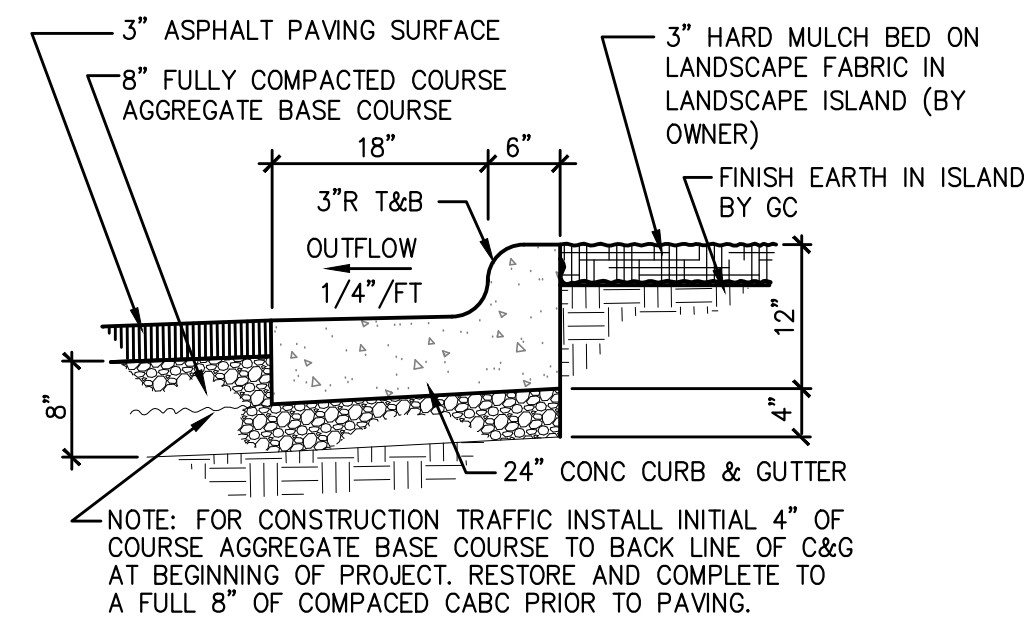
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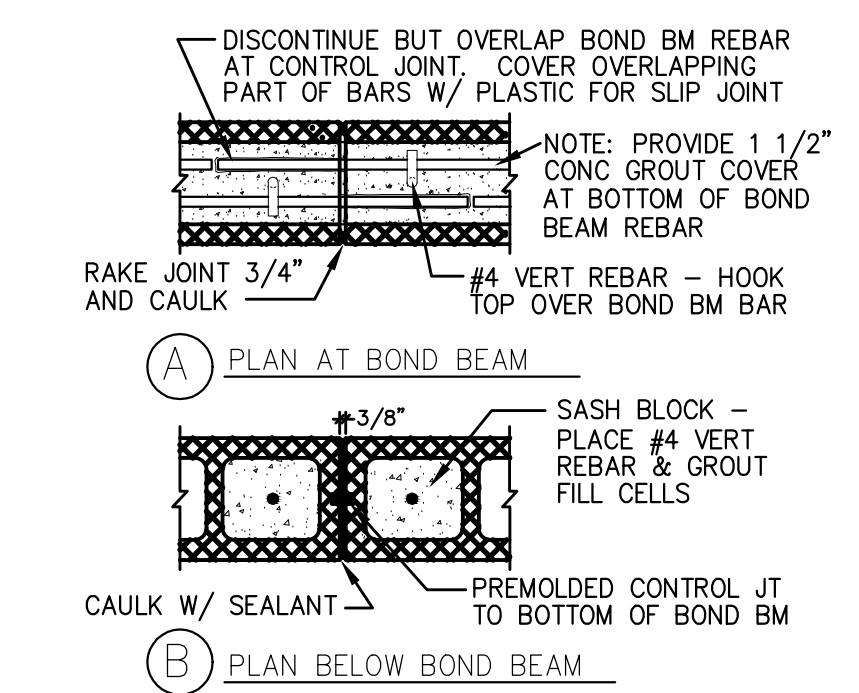
A1 OF 9



D6 PIPE BOLLARD
A1 SCALE: 1/2" = 1'-0"



C6 OUTFLOW CURB & GUTTER
A1 SCALE: 3/4" = 1'-0" (AT BUILDING ONLY)



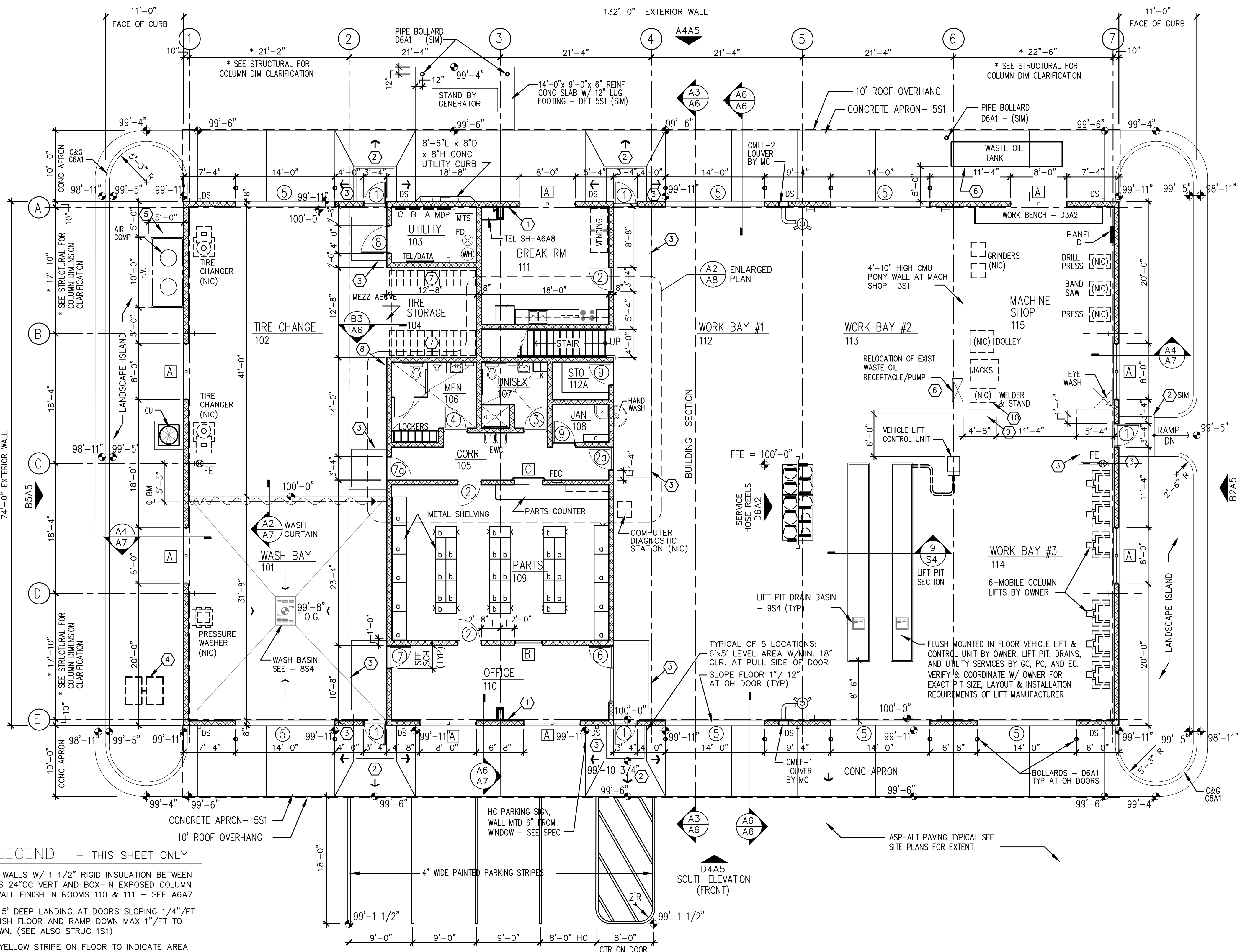
B6 CMU CONTROL JOINT
A1 SCALE: 1" = 1'-0"

GENERAL NOTES

- BUILDING DRAWING REFERENCE FINISH FLOOR EL = 100'-0" FOR ACTUAL FIN FL EL ABOVE SEA LEVEL SEE SITE PLAN.
- TOP OF NON-LOAD BEARING INTERIOR CMU WALLS IN OFFICE CORE AREA SHALL BE 8'-8" AFF WITH CONT BOND BEAM TOP. INTERIOR CMU WALLS AROUND TOILET AND MECHANICAL ROOMS SHALL BE EXTENDED TIGHT TO DECK ABOVE WITH 5/8" DWL ON 3 5/8" MET STUDS 24"OC WITH 3" SOUND BATT INSUL.
- EQUIPMENT SHOWN DASHED IN ROOMS 101, 102, & 115 IS PROVIDED BY OWNER. GC IS TO COORDINATE POWER SUPPLY LOCATION AND TYPE WITH ELECTRICAL. (SEE ELEC PLANS)
- PROVIDE BULLNOSE CMU AT ALL EXPOSED INTERIOR CMU PARTITION OUTSIDE CORNERS, WINDOW AND DOOR JAMBS, GRIND BULLNOSE ON CAP BLOCK CORNERS. SEE B6A8-A, A6A9-J2 & 3S1 FOR EXAMPLES.

KEYNOTE LEGEND - THIS SHEET ONLY

- FURR EXTERIOR WALLS W/ 1 1/2" RIGID INSULATION BETWEEN METAL Z-STRIPS 24"OC VERT AND BOX-IN EXPOSED COLUMN FOR 5/8" DRYWALL FINISH IN ROOMS 110 & 111 - SEE A6A7
- CENTER 6" W x 5" DEEP LANDING AT DOORS SLOPING 1/4"/FT AWAY FROM FINISH FLOOR AND RAMP DOWN MAX 1"/FT TO APRON AS SHOWN. (SEE ALSO STRUC 1S)
- PAINT 4" WIDE YELLOW STRIPE ON FLOOR TO INDICATE AREA TO BE KEPT CLEAR FOR ACCESSIBILITY AT ALL TIMES.
- OIL/WATER SEPARATORS FURNISHED AND INSTALLED BY PC.
- AT AIR COMPRESSOR PROVIDE 5' x 10'-0" x 4" WWF REINF CONCRETE PAD AND 2 1/2" SQ WELDED STEEL TUBE BOX FRAME WITH METAL SHED ROOF & END PANELS TO MATCH METAL SIDING. SEE ELEVATIONS AND DET C1A3
- EXISTING ON SITE WASTE OIL TANK, AND RECEPTACLE/PUMP TO BE RELOCATED TO NEW SHOP AND RE-INSTALLED BY PC.
- TIRE STORAGE RACKS BY OWNER (MAX 8'-0" HIGH).
- PROVIDE SIGN: COPY
TIRE STORAGE
700 CU. FT. MAX. LIMIT
- PROVIDE SIGN: COPY
CAUTION
HOT WORK IN PROGRESS
STAY CLEAR
- ARC WELDING SHALL NOT OCCUR WITH-IN 18" OF THE FLOOR



METAL SHELVING SCHEDULE		
MARK	SIZE	REMARKS: ">" DENOTES CLOSED END
a	48"W x 24"D x 84"H	6 SHELF CLIPPER UNIT
b	36"W x 18"D x 84"H	7 SHELF CLIPPER UNIT
c	42"W x 12"D x 84"H	7 SHELF CLIPPER UNIT

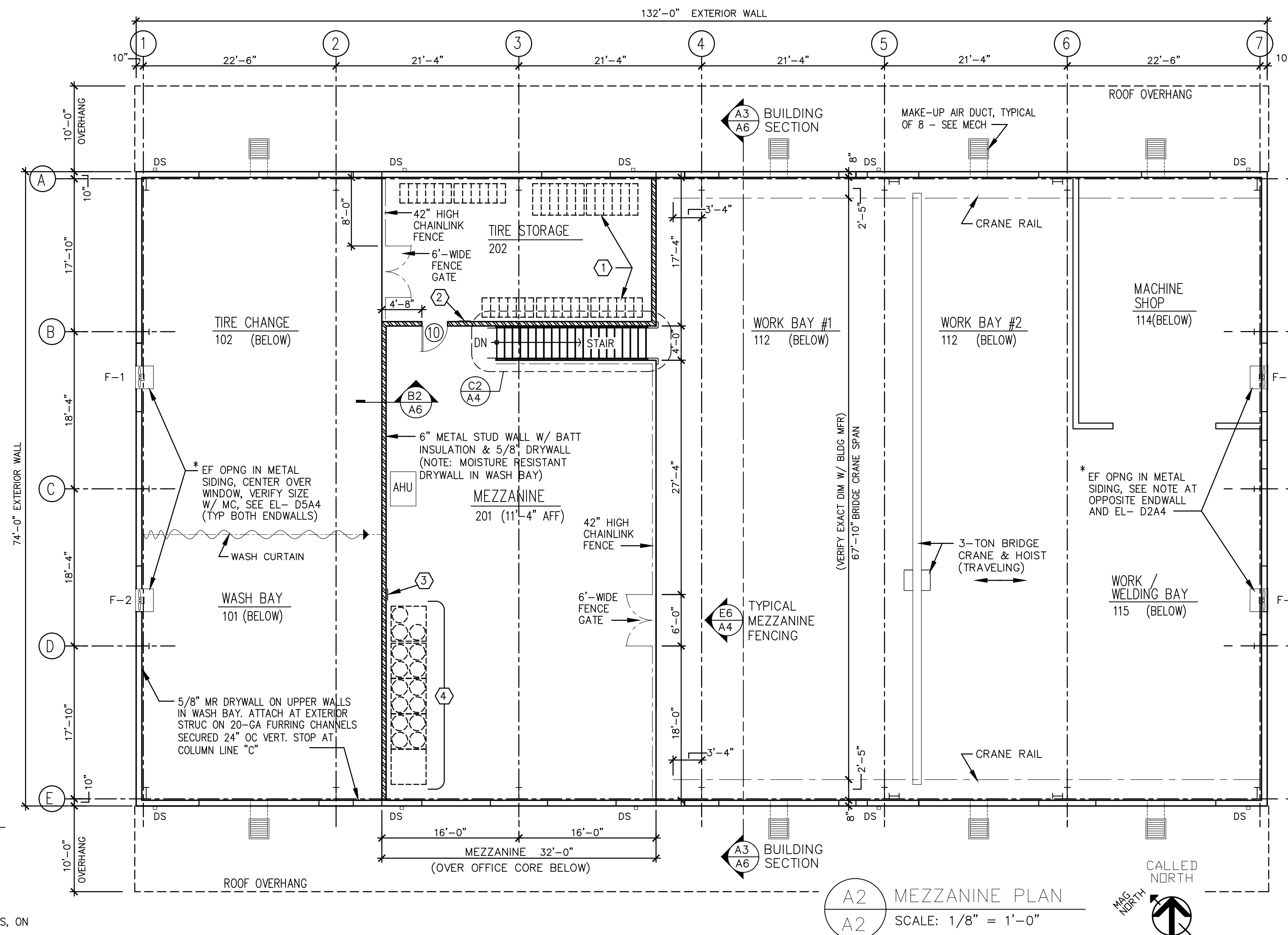
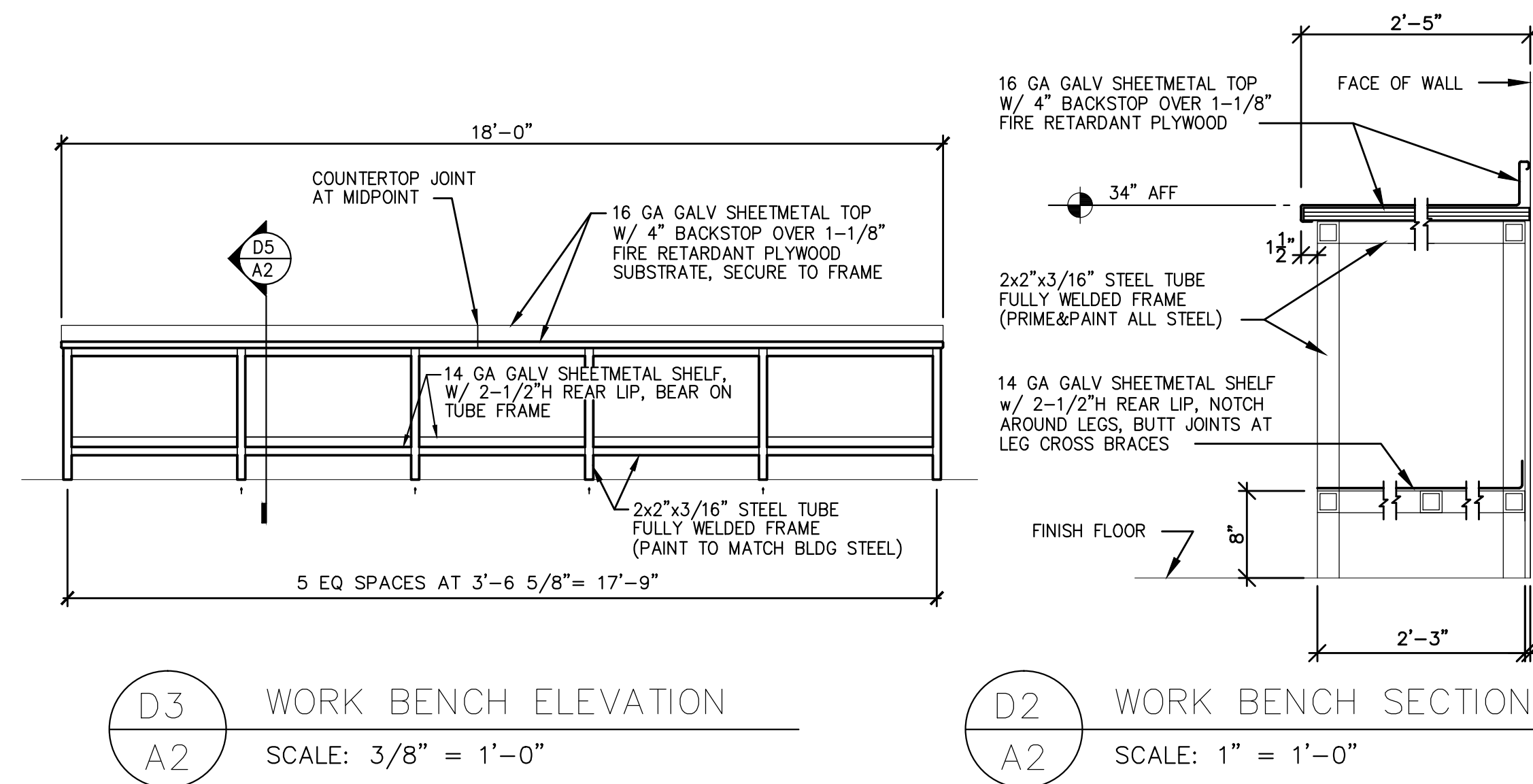
A2 FLOOR PLAN
A1 SCALE: 1/8" = 1'-0"





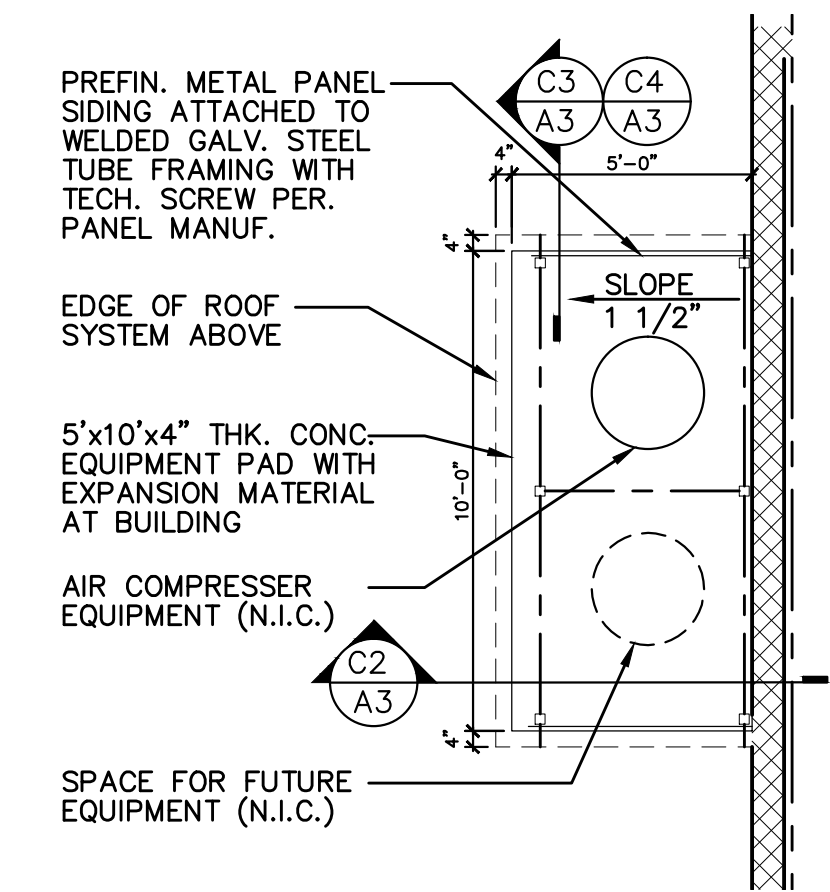
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A2 OF

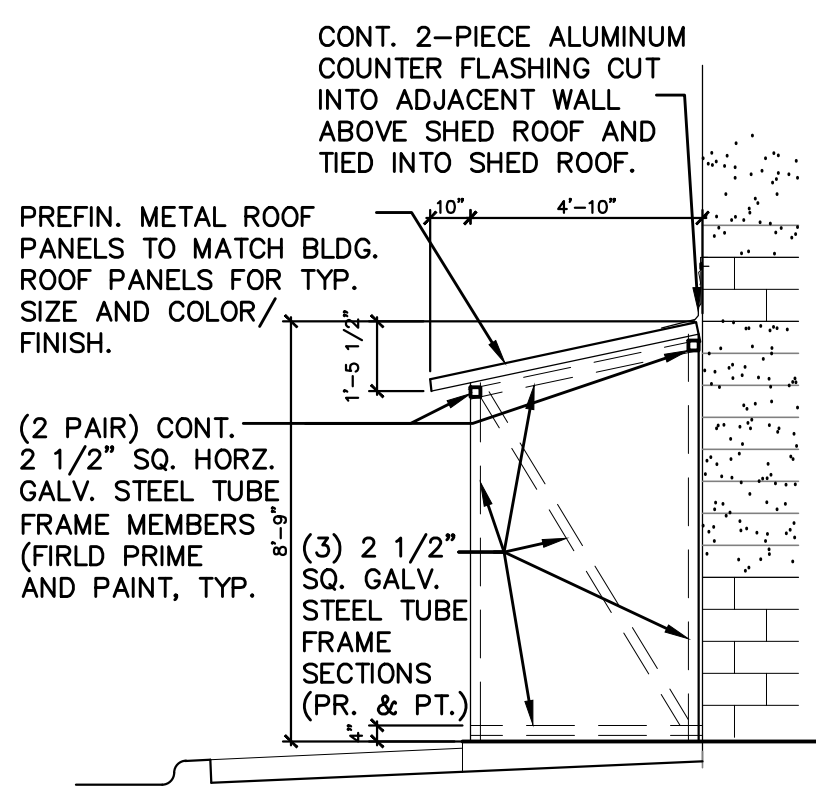


4 DRUMS W/ OIL & HYDRAULIC FLUIDS, FOR SERVICE REELS, ON
APPROVED SPILL CONTROL PALLETS BY OWNER.

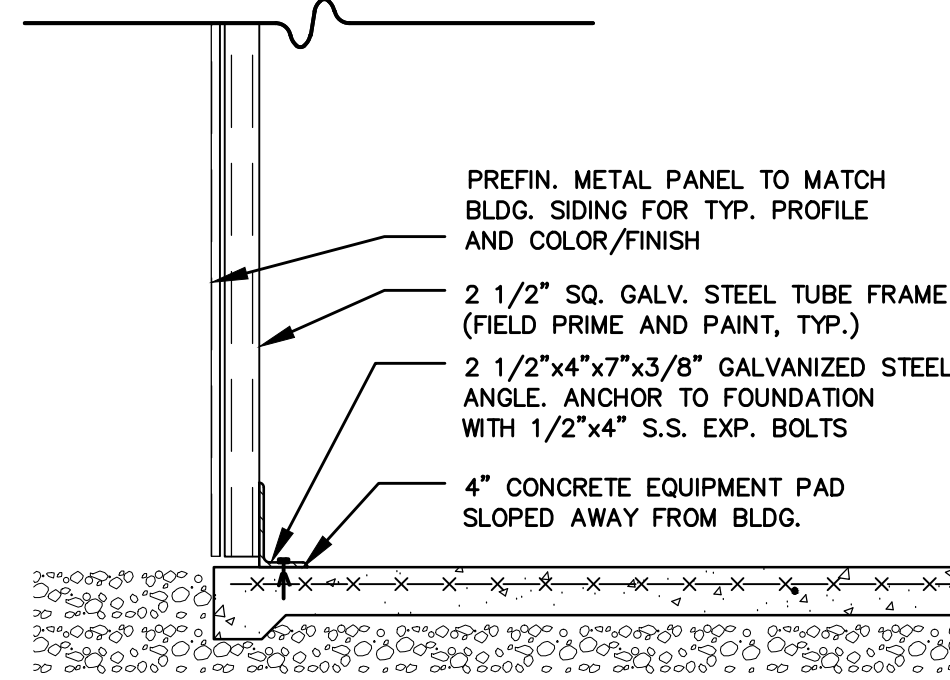
SCALE: 1/8" = 1'-0"



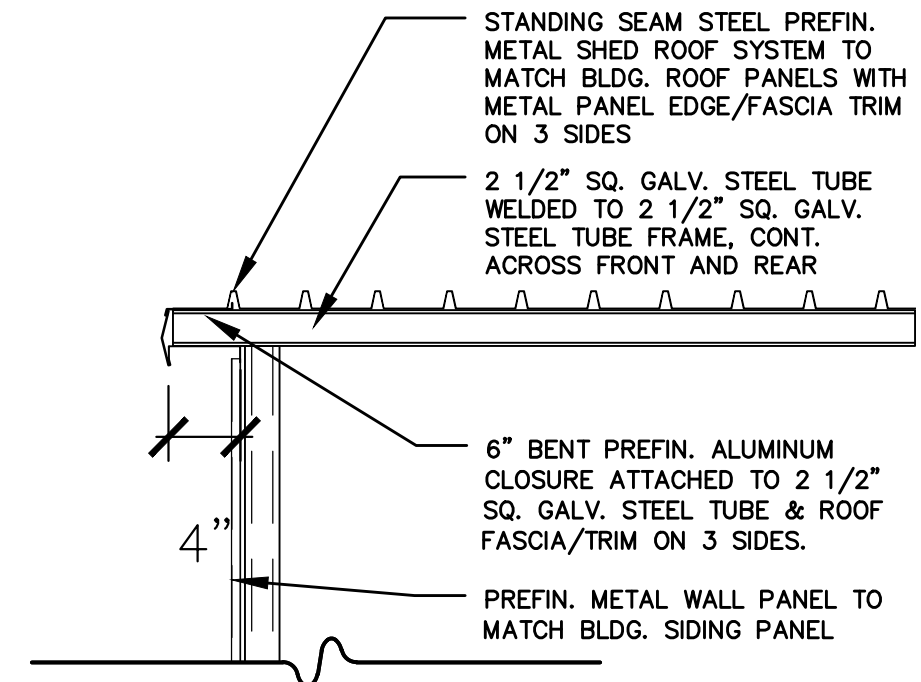
C1 AIR COMPRESSOR FOOTPRINT
A3 NOTE TO SCALE



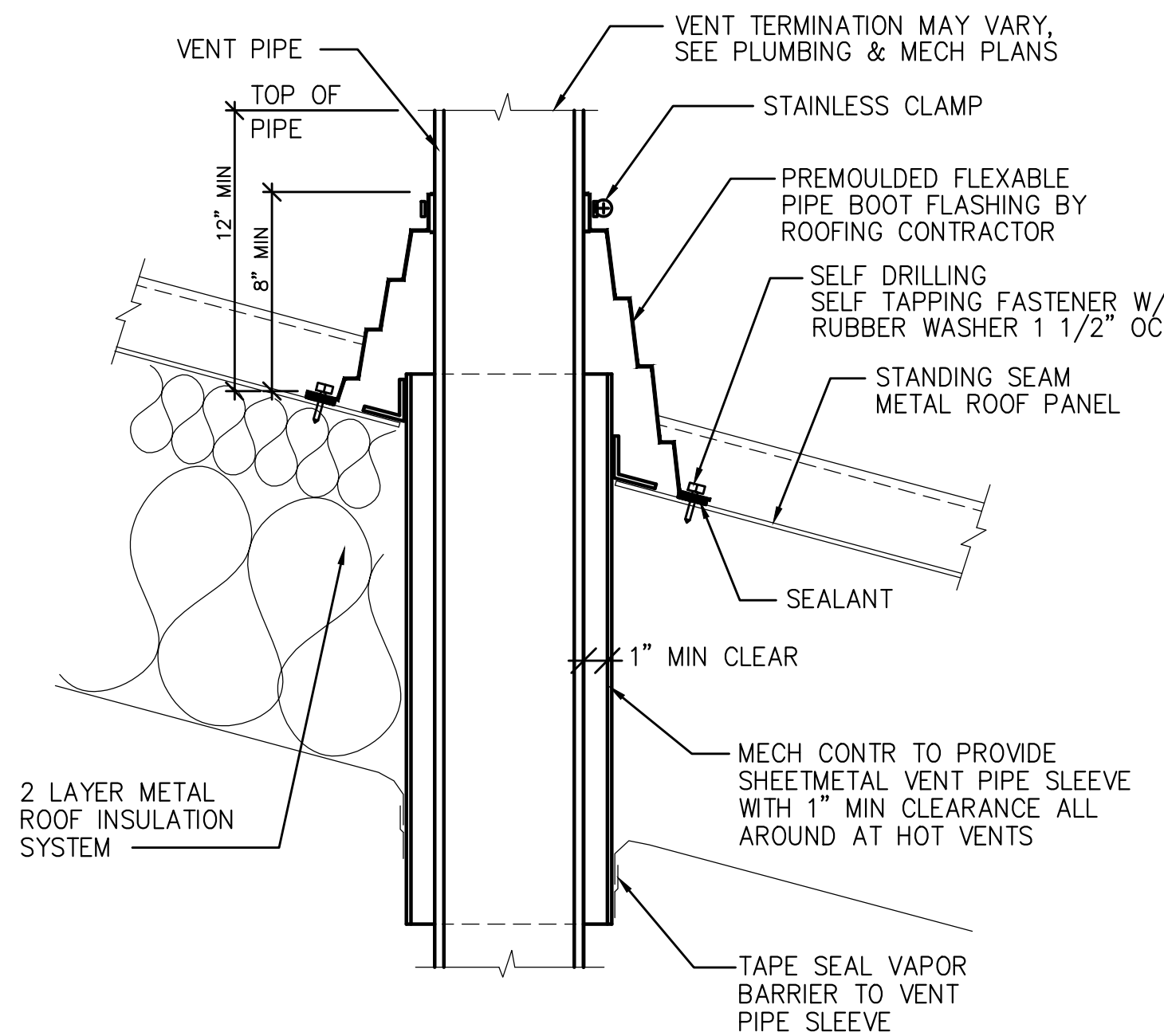
C2 ELEVATION OF SHED
A3 NOTE TO SCALE



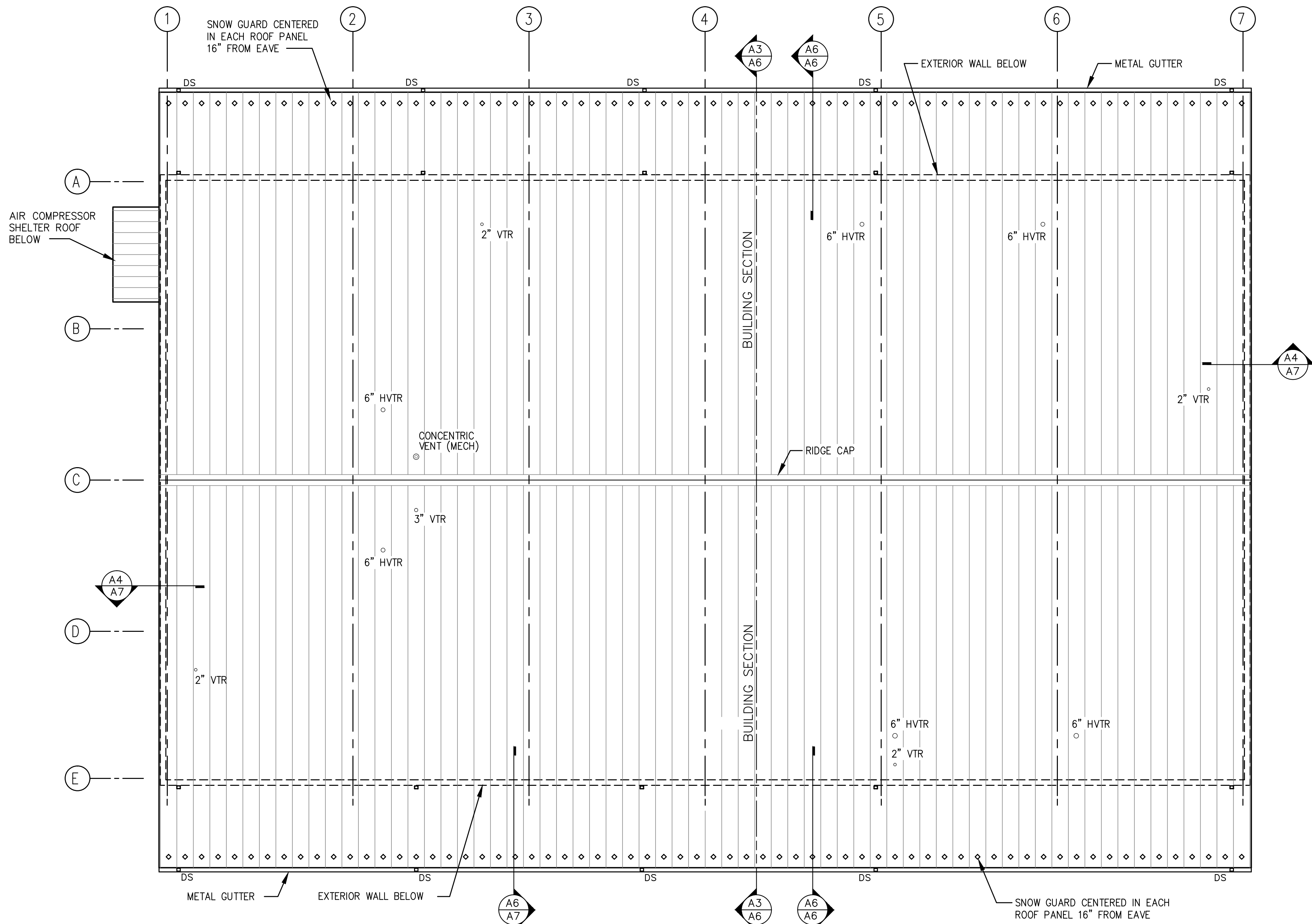
C3 SECTION BASE OF SHED
A3 NOTE TO SCALE



C4 SHED ROOF DETAIL
A3 NOTE TO SCALE



B6 STANDARD ROOF VENT DETAIL
A3 NOTE TO SCALE



A2 ROOF PLAN
A3 SCALE: 1/8" = 1'-0"

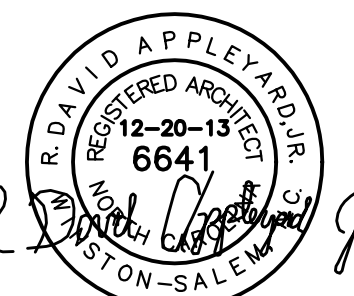
GENERAL NOTES

1. ROOFING DETAILS AS SHOWN ON DRAWINGS ARE GENERIC AND PROVIDED AS A REFERENCE TO CLARIFY BUILDING CONSTRUCTION CONDITIONS FOR ESTIMATING PURPOSES ONLY. EXACT ROOFING MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE CHOSEN MANUFACTURER'S SPECIFICATIONS, APPROVED INSTALLATION INSTRUCTIONS AND STANDARD DETAILS.
2. THE CONTRACTOR SHALL PERFORM ALL WORK AS REQUIRED TO OBTAIN AND PROVIDE THE ROOFING MANUFACTURER'S LABOR AND MATERIAL WARRANTY AS SPECIFIED.



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A3 OF 9

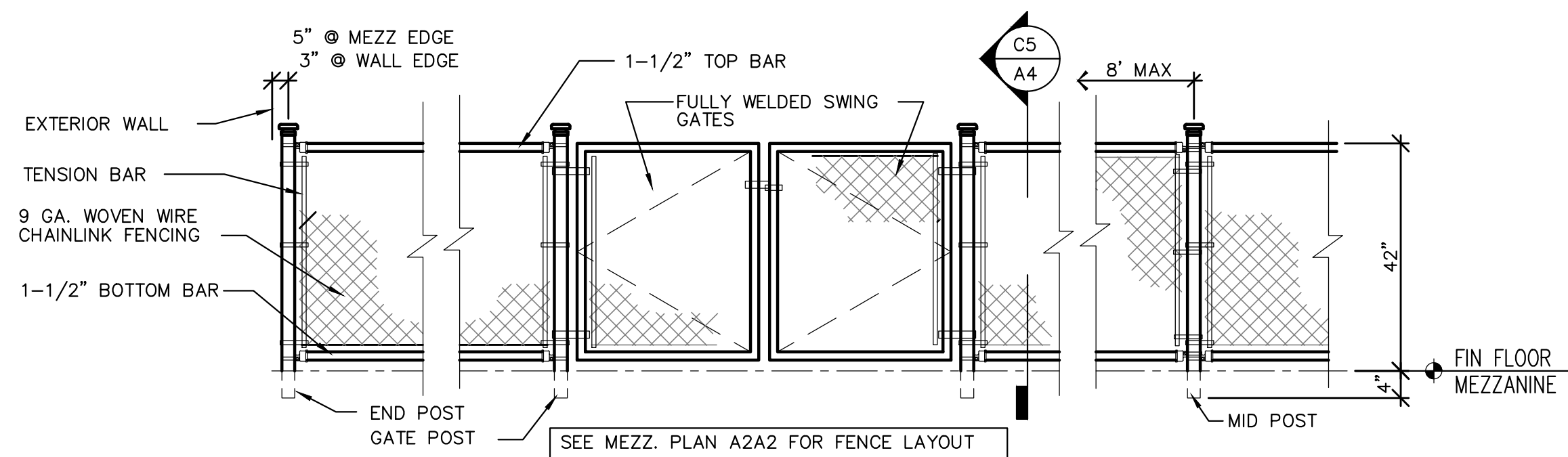
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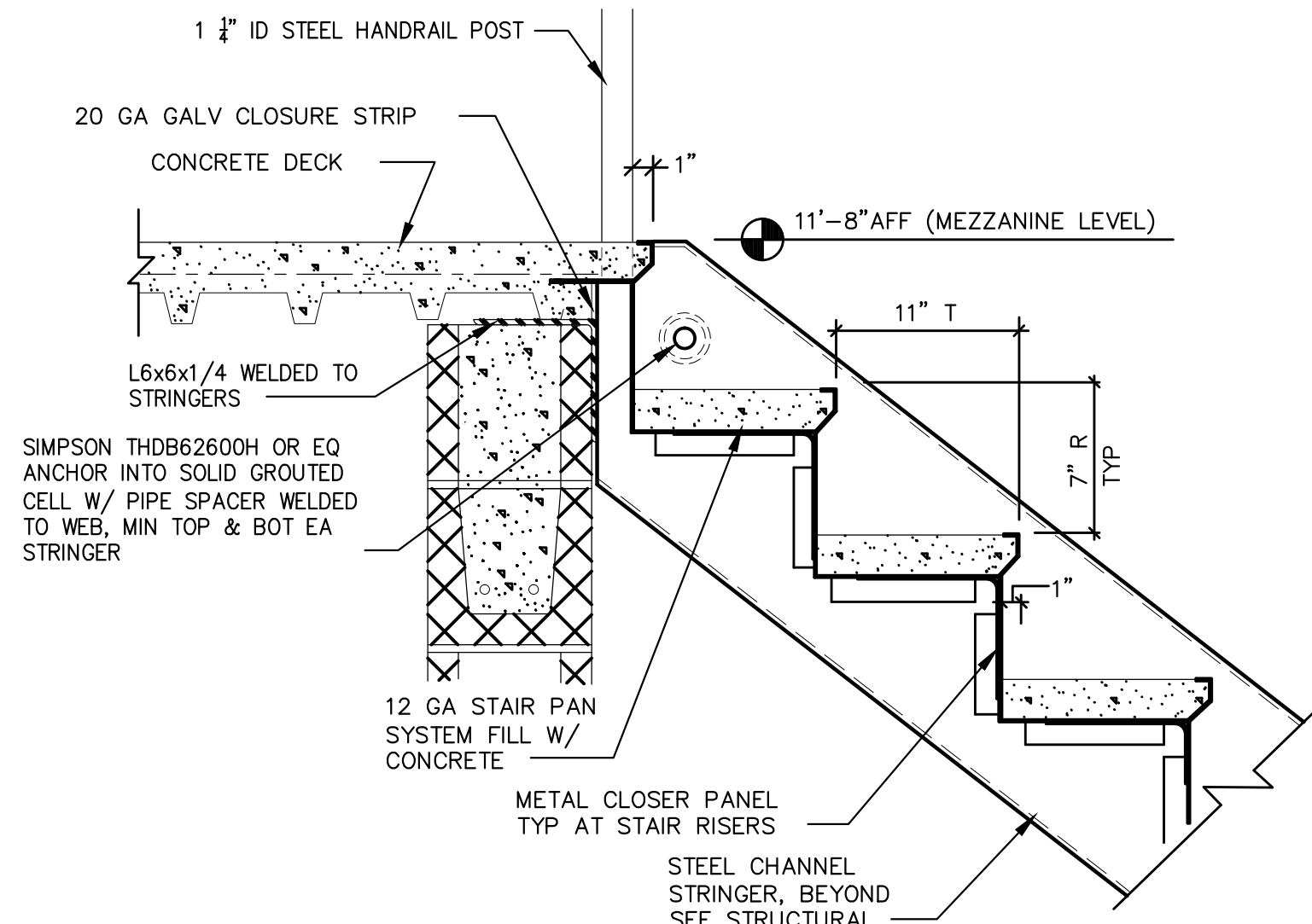
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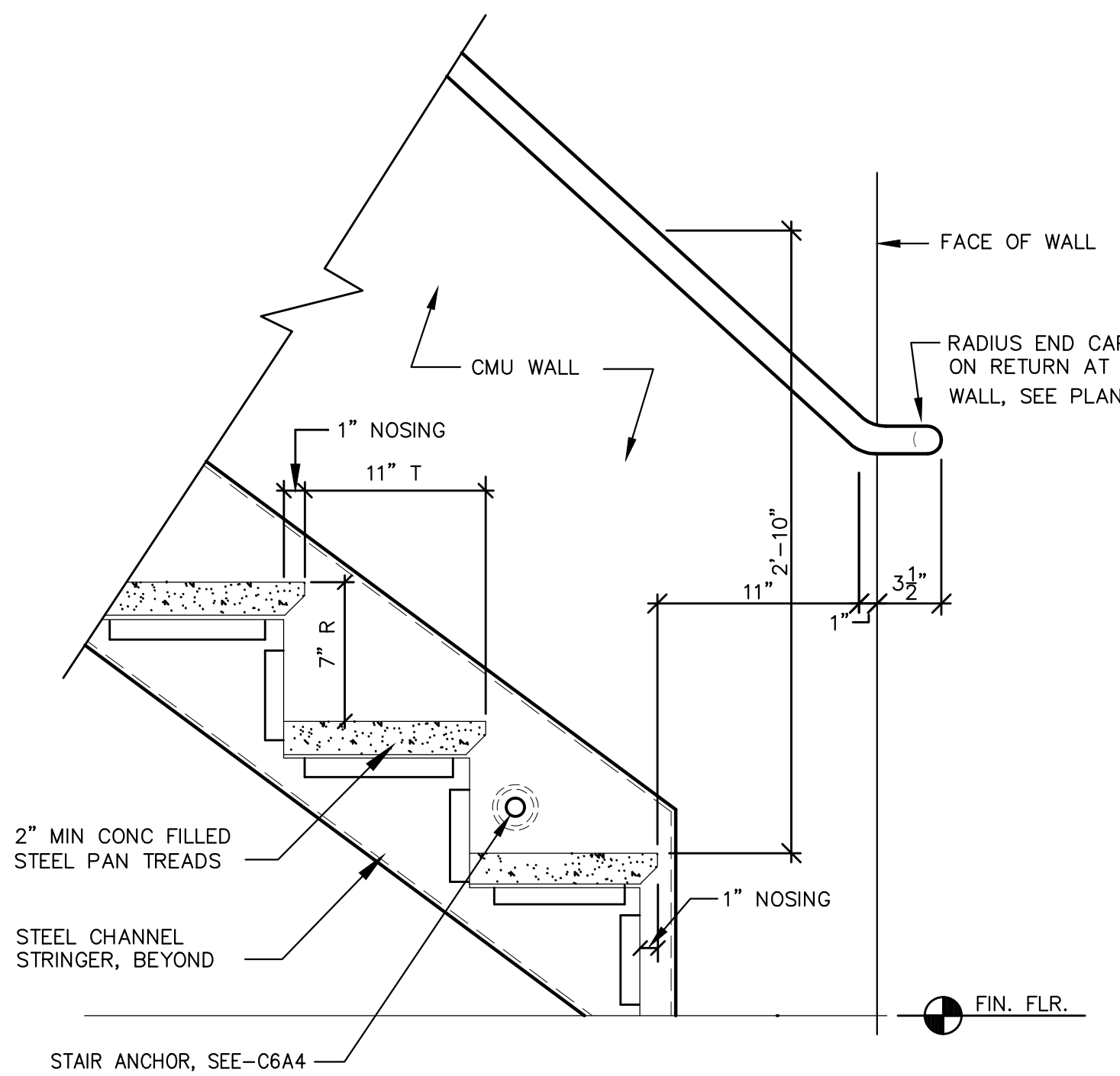
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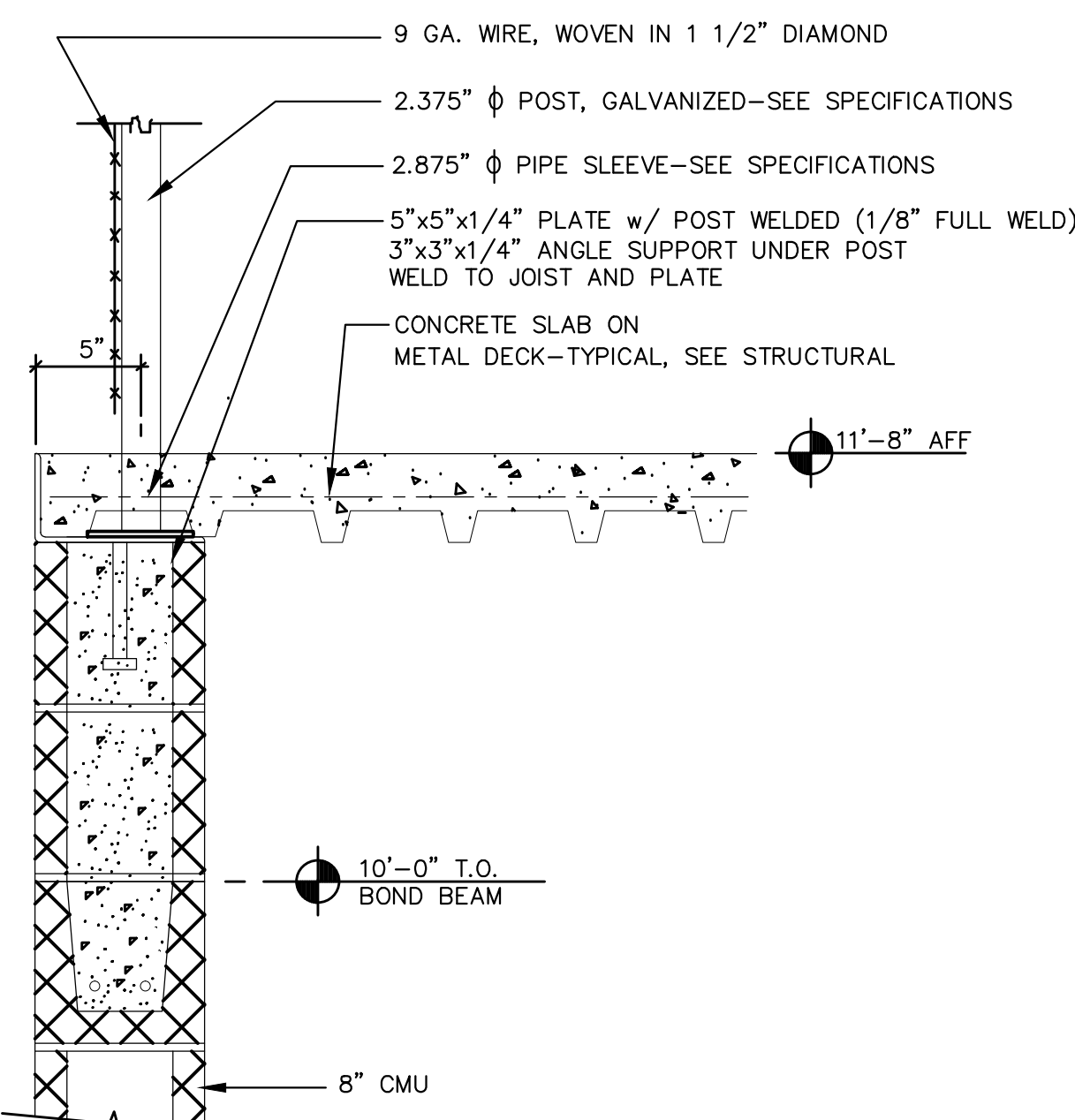
E6 TYPICAL MEZZANINE FENCING
 SCALE: 1/2" = 1'-0"



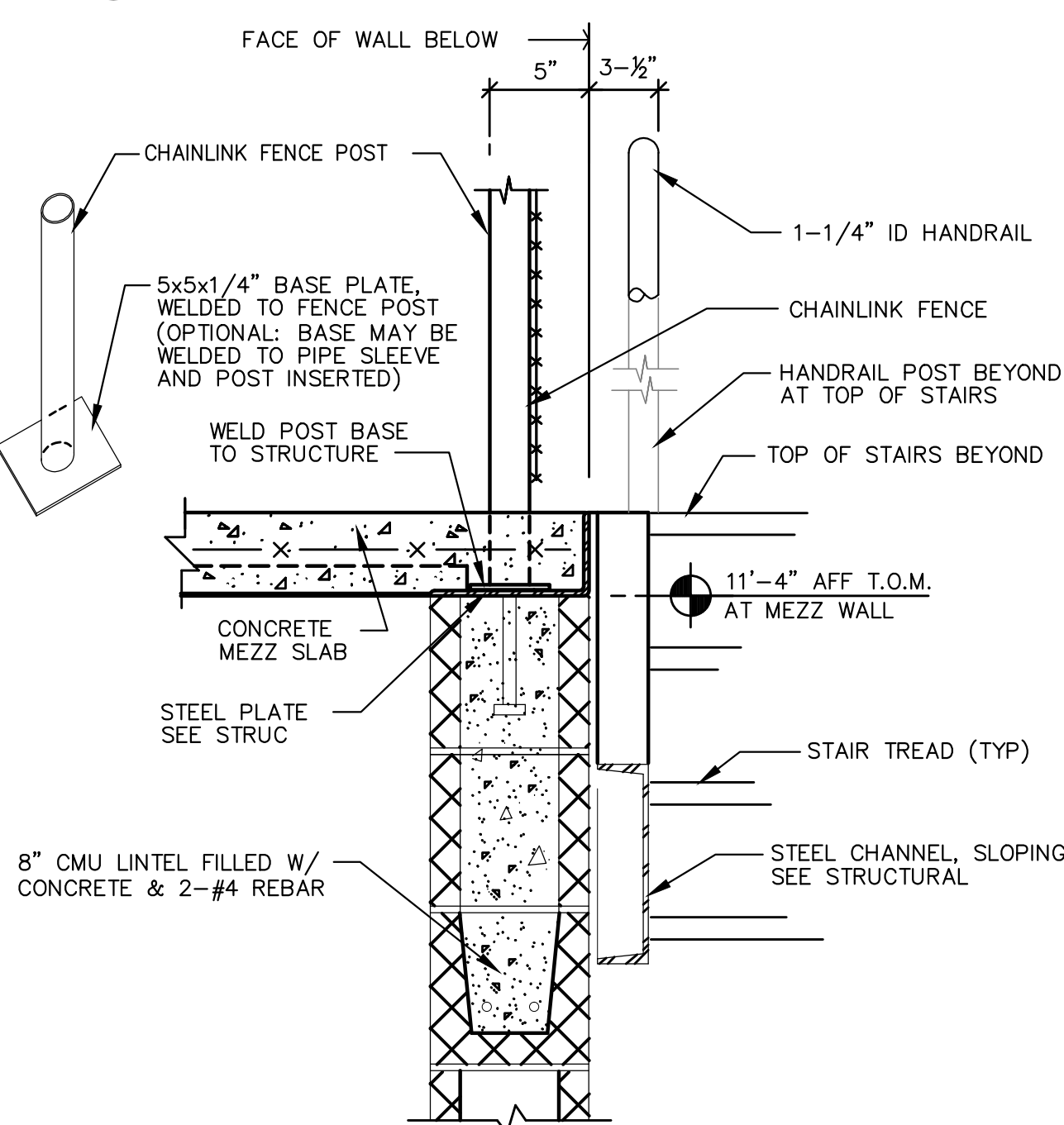
C6 STAIR SECTION
 SCALE: 1-1/2" = 1'-0"



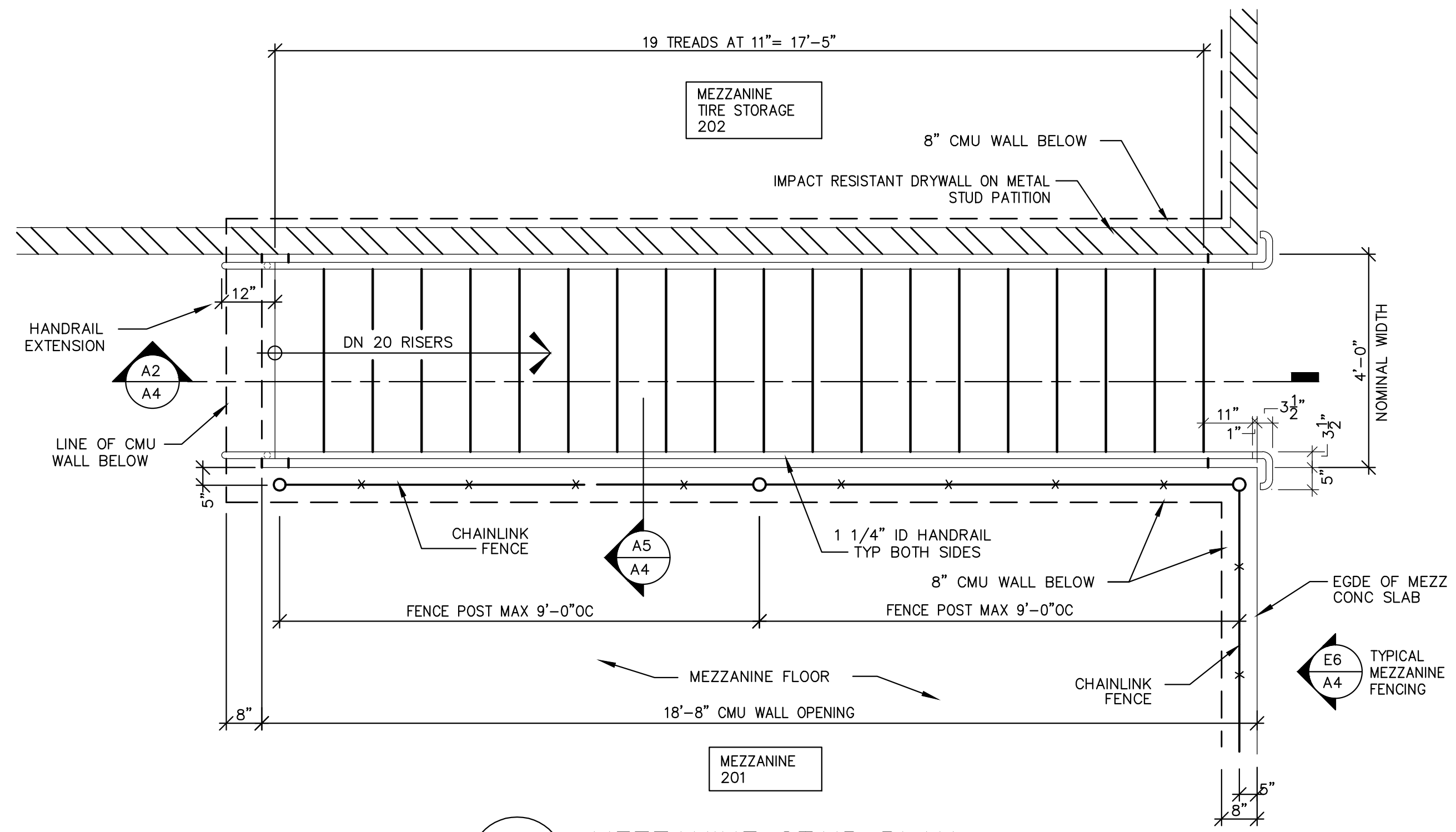
A6 STAIR SECTION
 SCALE: 1-1/2" = 1'-0"



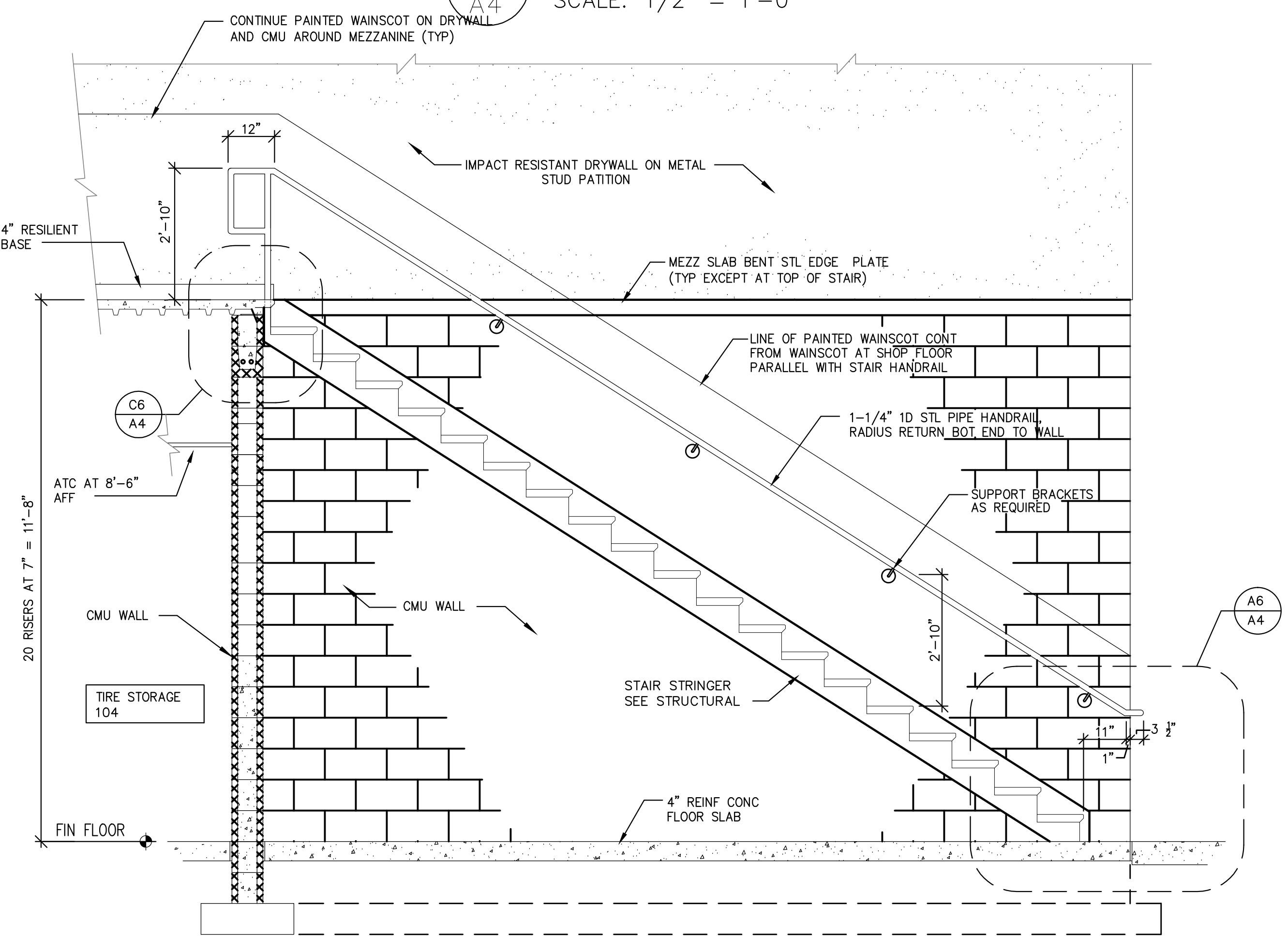
C5 FENCE SECTION
 SCALE: 1-1/2" = 1'-0"



A5 STAIR SECTION
 SCALE: 1-1/2" = 1'-0"



C2 MEZZANINE STAIR PLAN
 SCALE: 1/2" = 1'-0"



A2 MEZZANINE STAIR SECTION
 SCALE: 1/2" = 1'-0"

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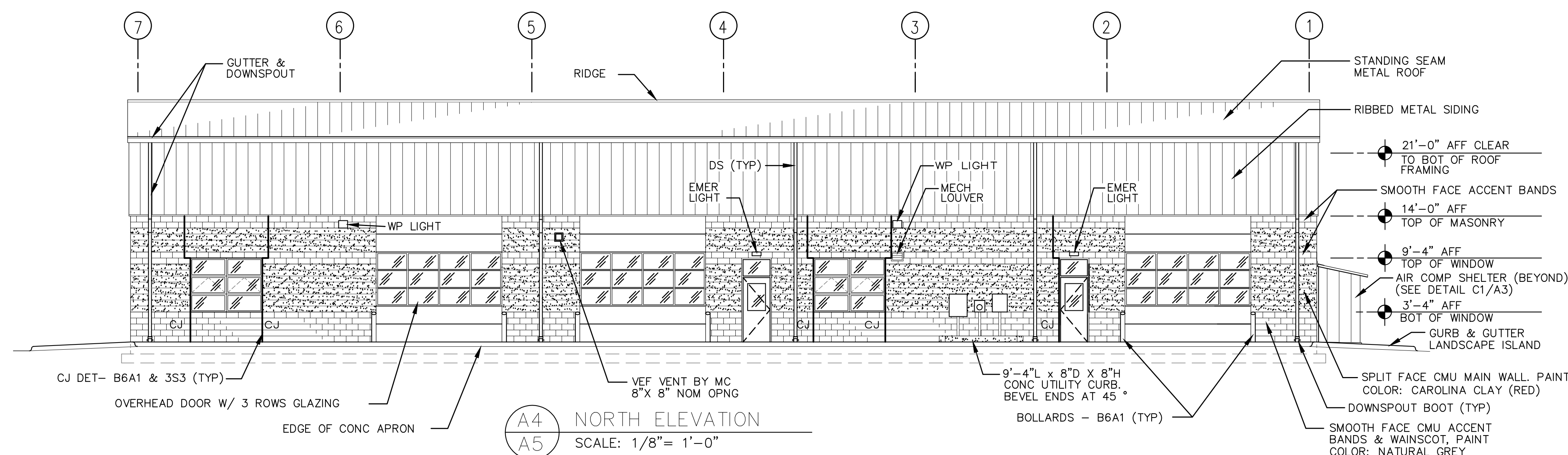
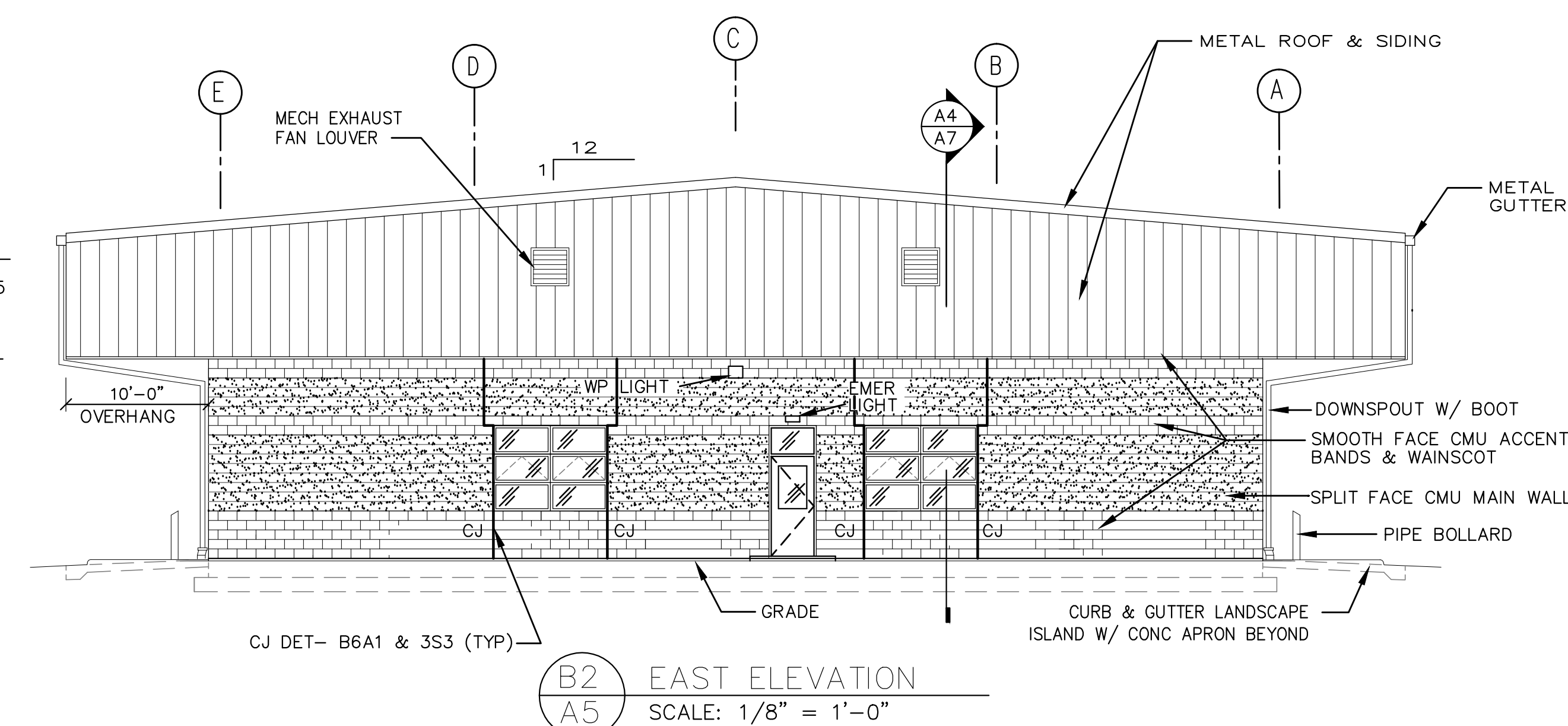
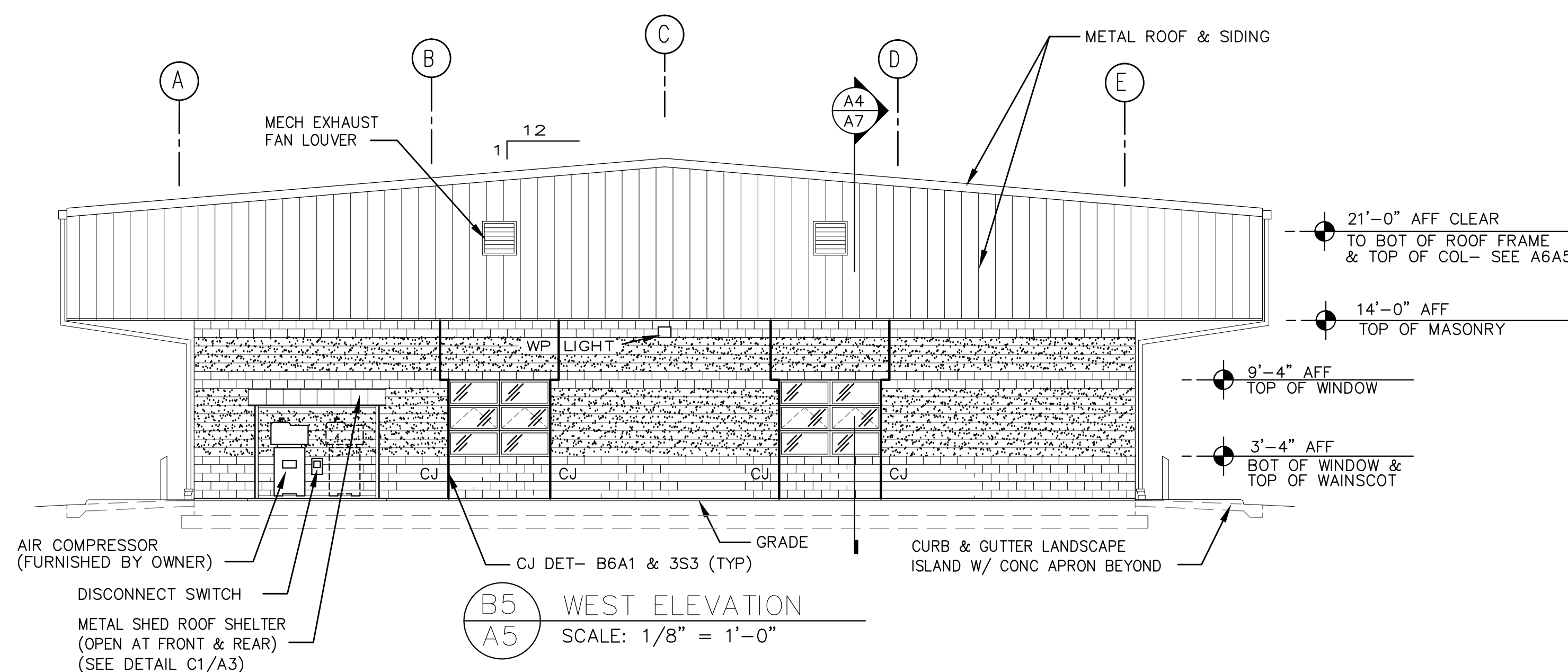
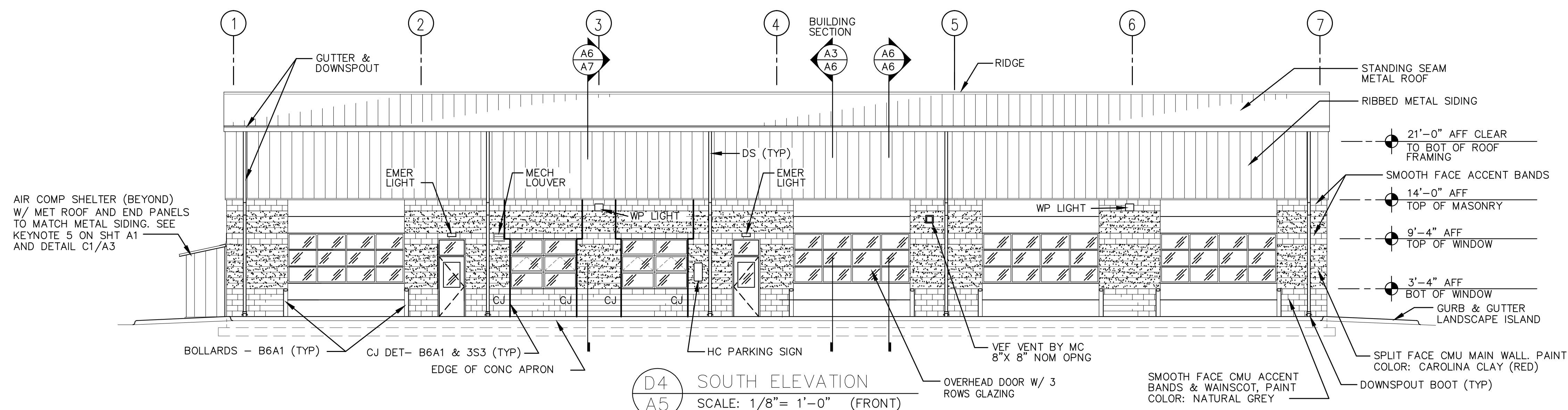
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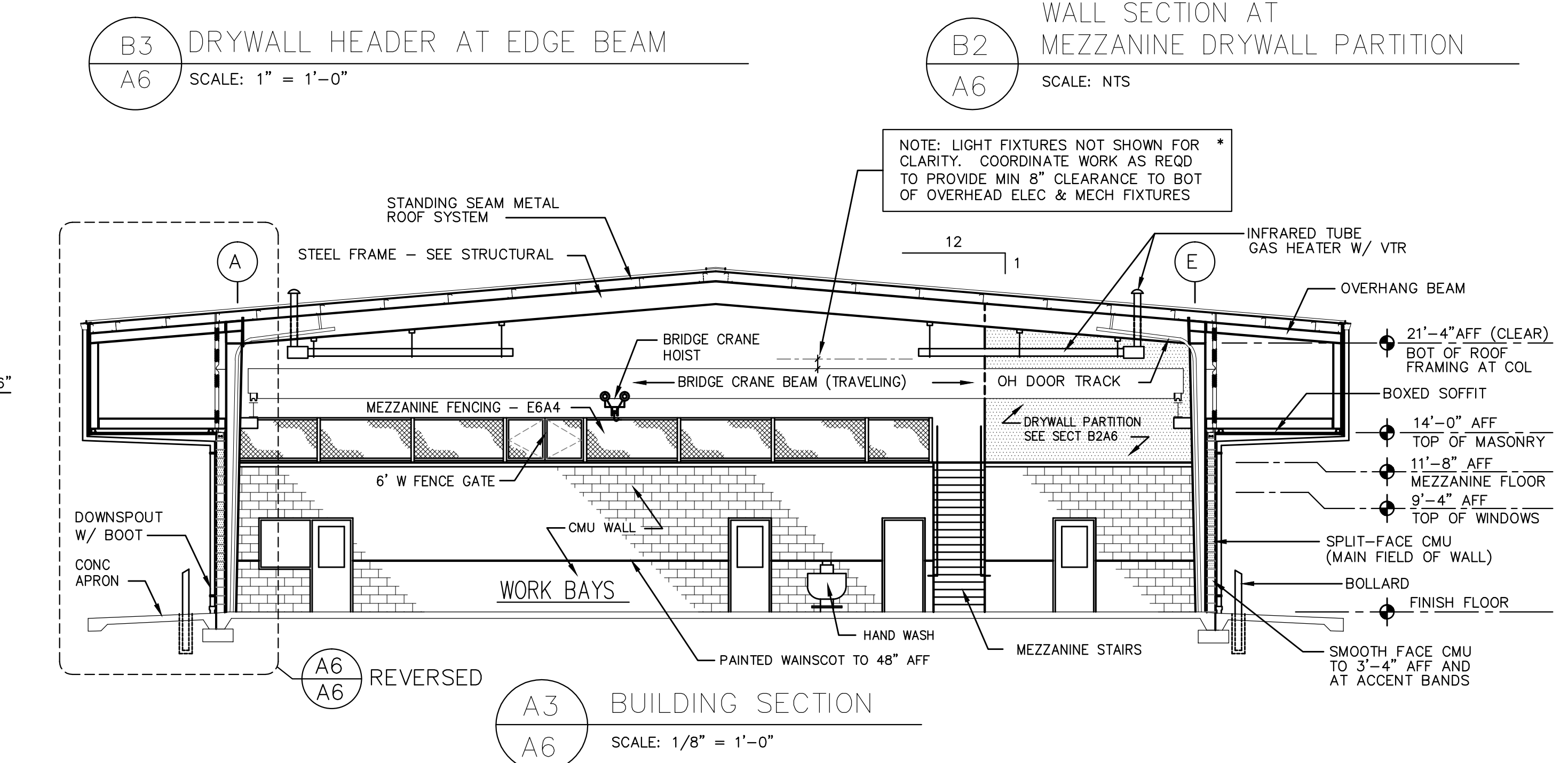
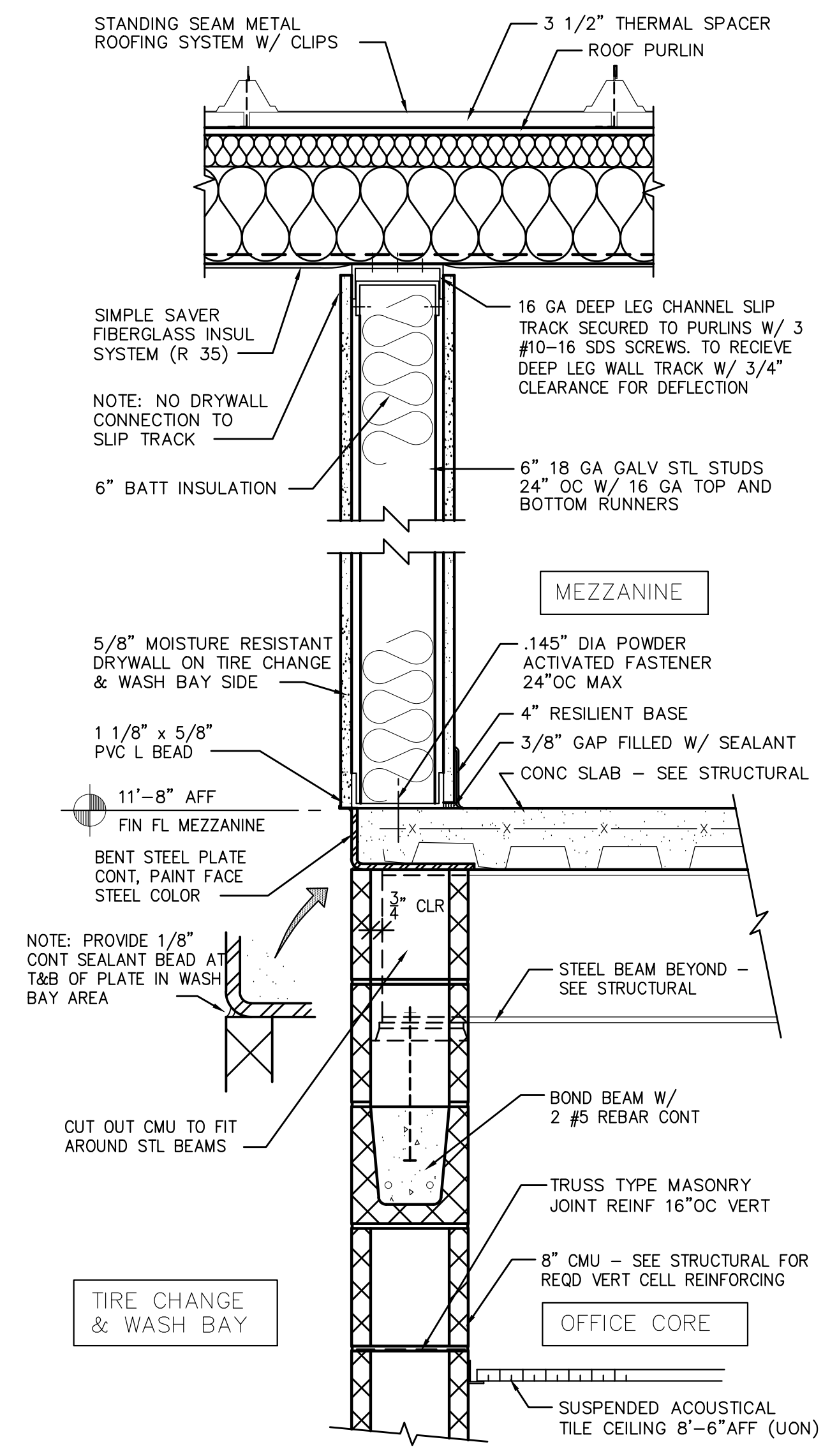
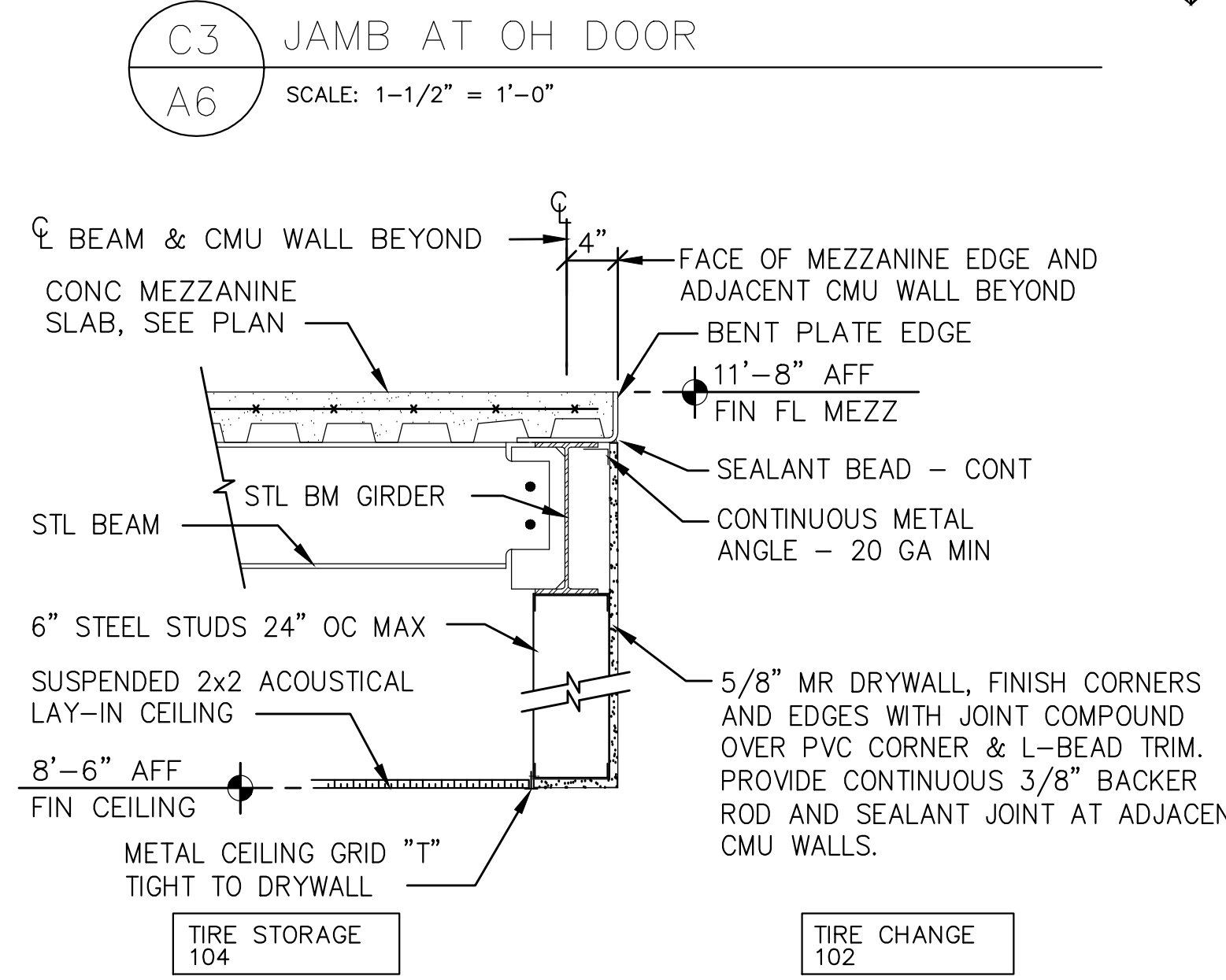
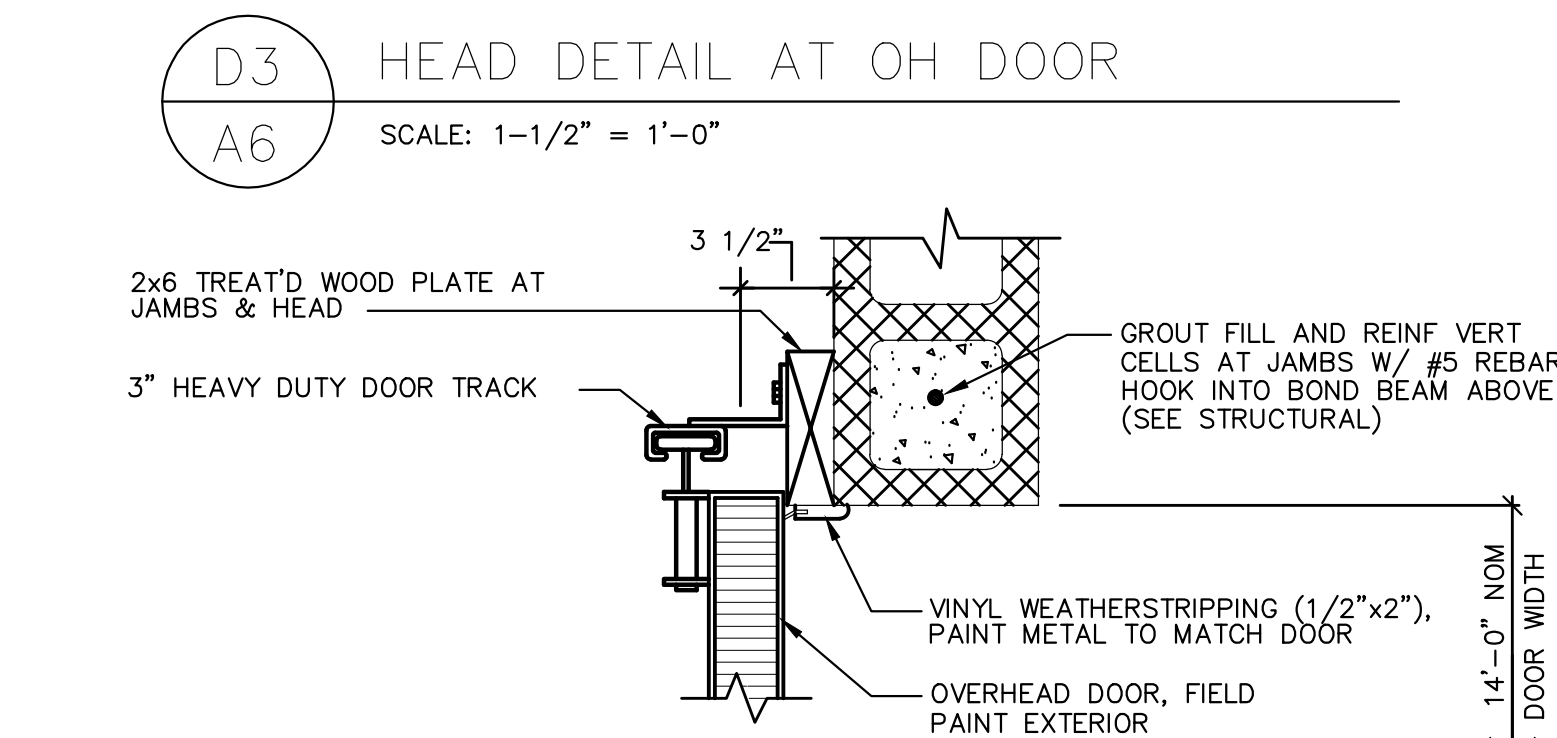
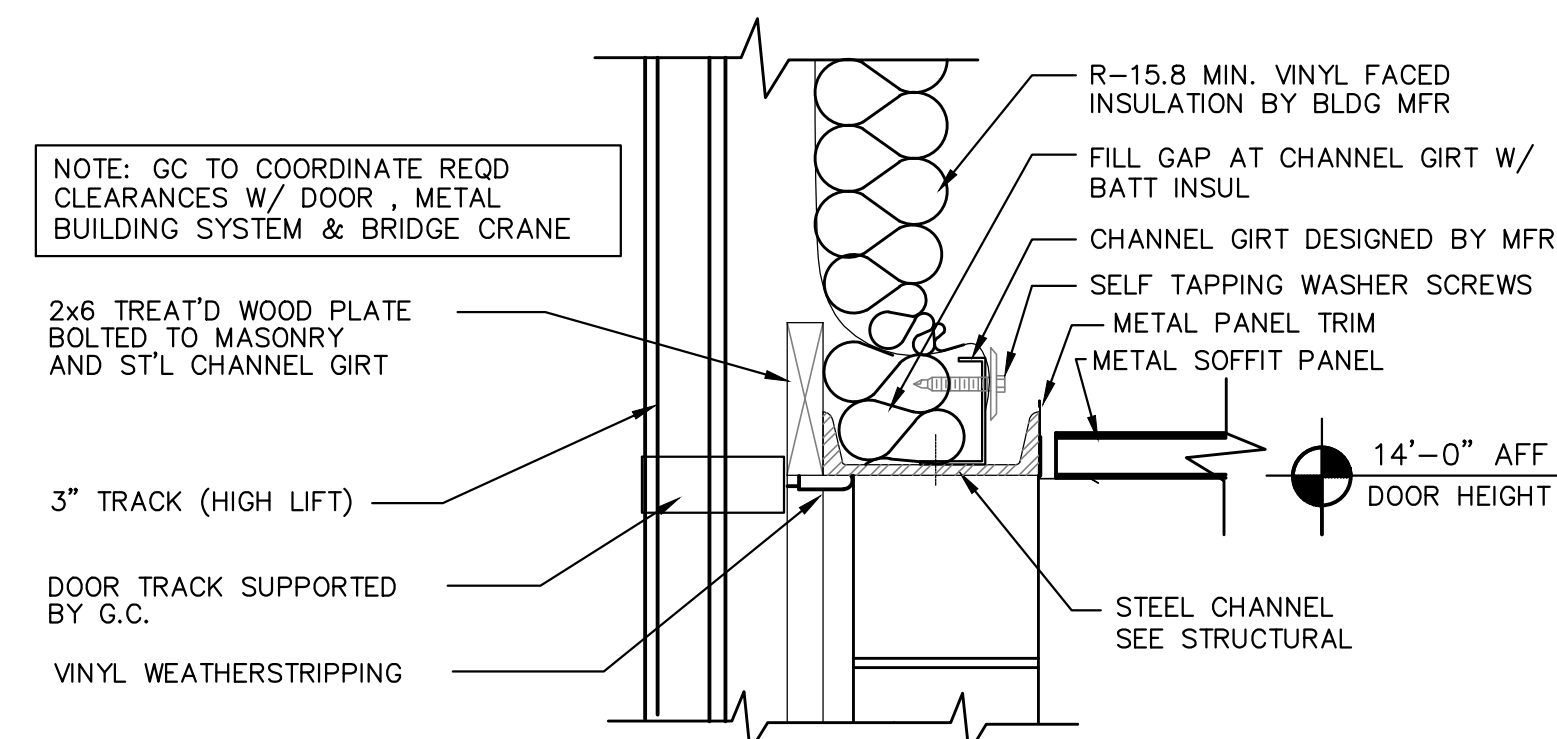
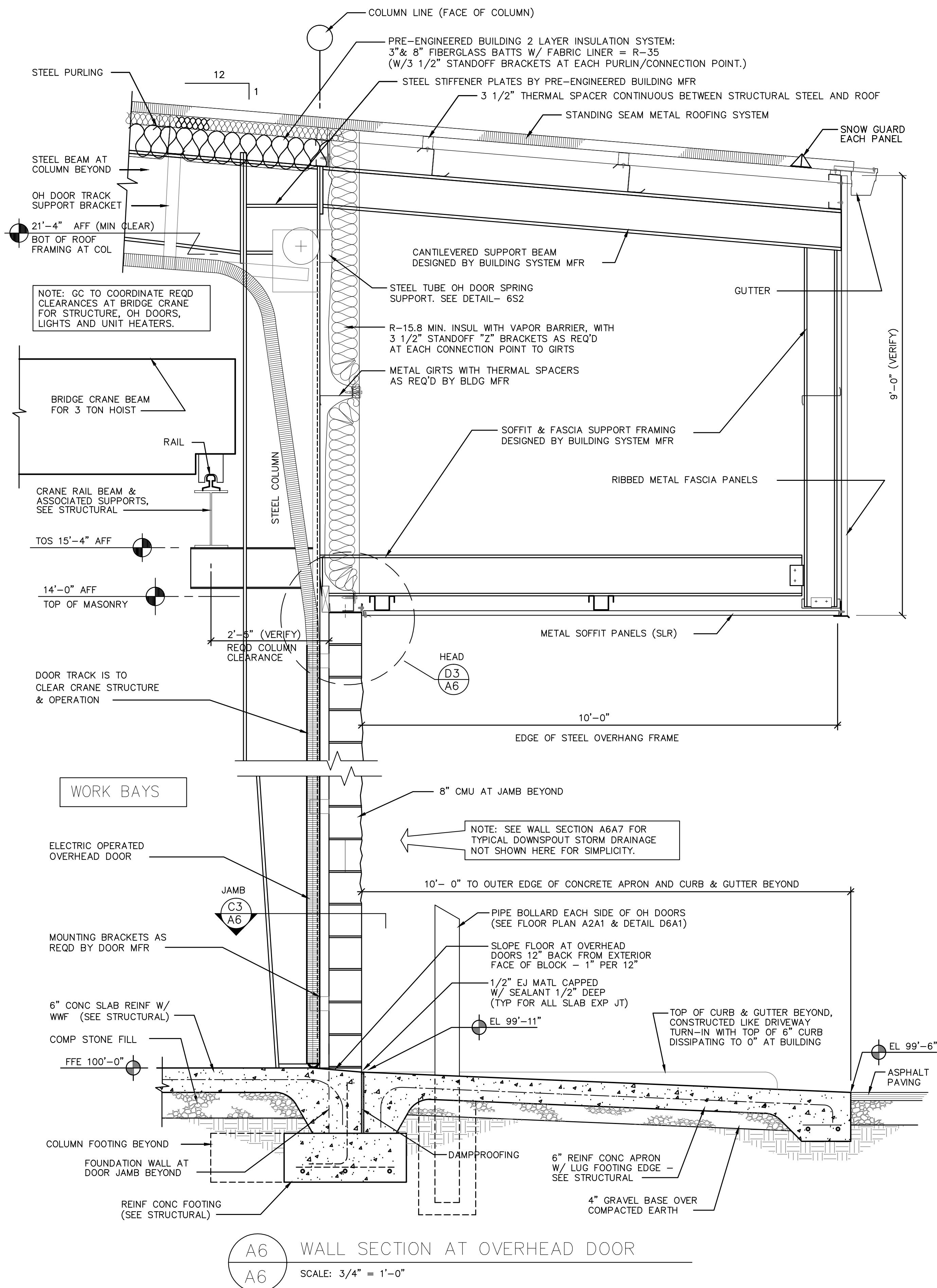
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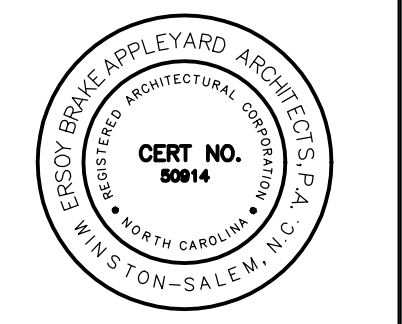
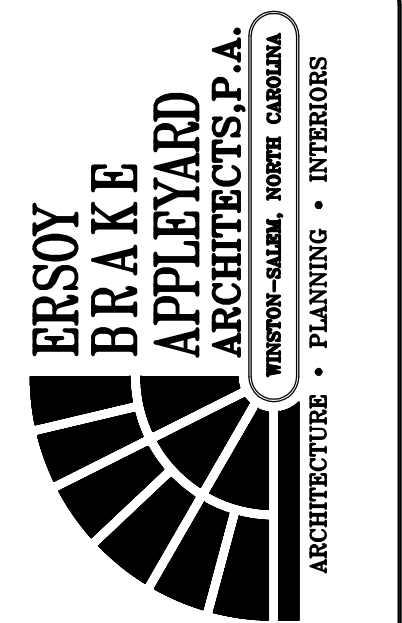
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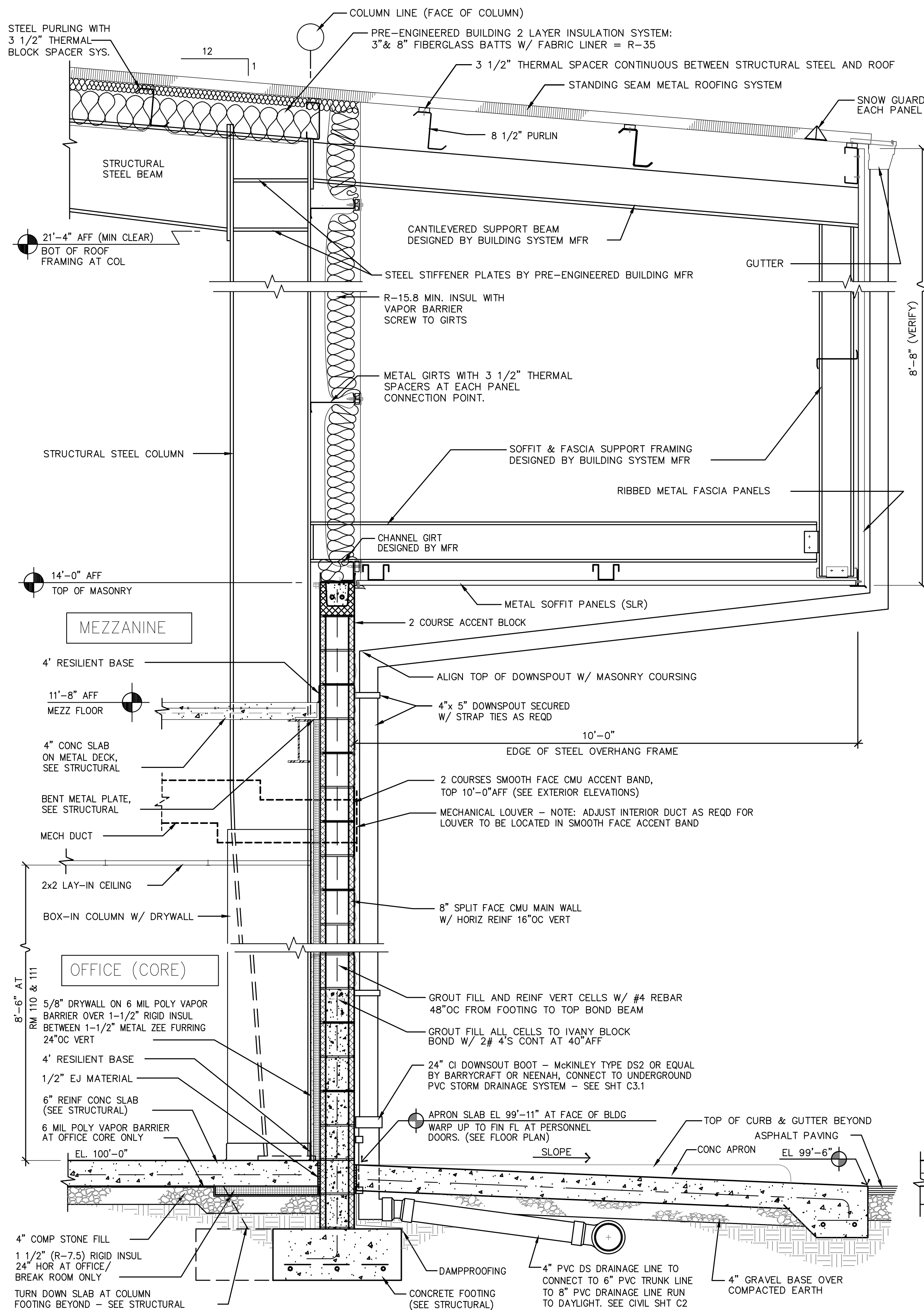


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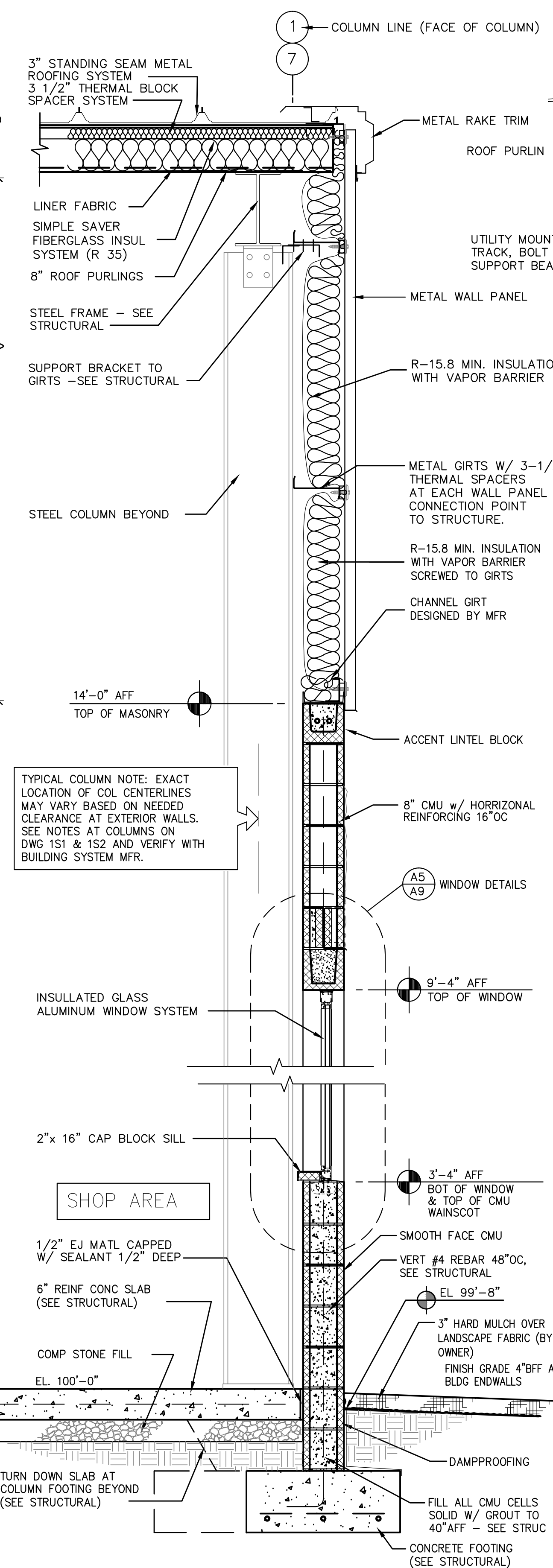
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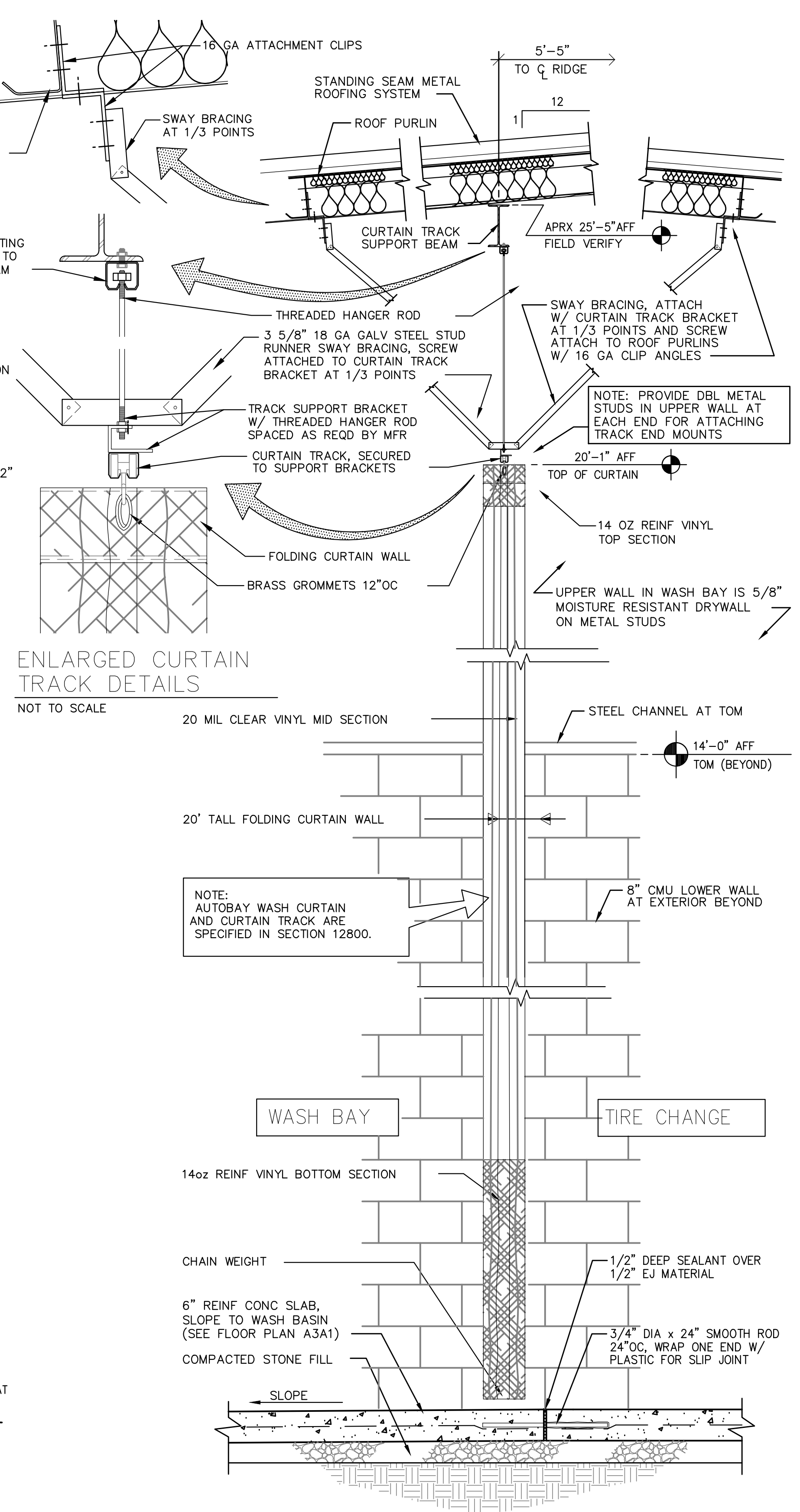
A6 OF 9



A6 WALL SECTION AT OFFICE CORE
A7
 SCALE: 3/4" = 1'-0"



A4 WALL SECTION AT END WALL
A7
 SCALE: 3/4" = 1'-0"



A2 SECTION AT WASH CURTAIN
A7
 SCALE: 3/4" = 1'-0"

**ERSOY
BRAKE
APPLEYARD
ARCHITECTS, P.A.**
 WINSTON-SALEM, NORTH CAROLINA
 ARCHITECTURE • PLANNING • INTERIORS

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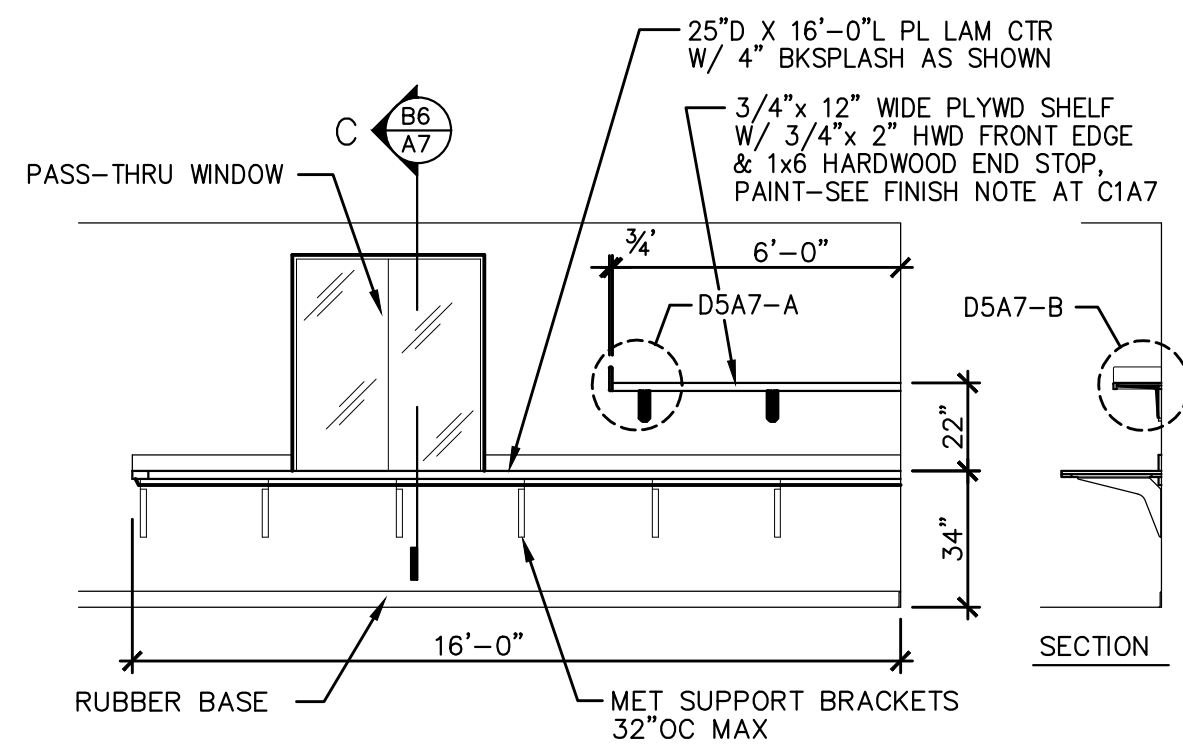
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 COMM. :1308
 SCO ID# :12-08354-02A
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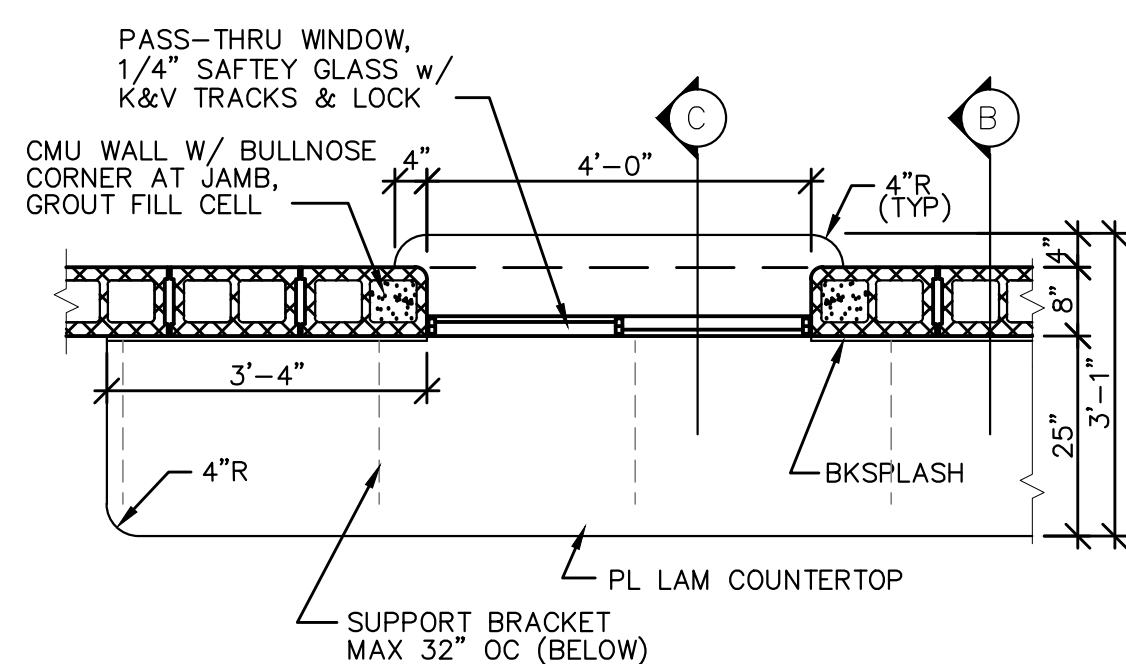
A7
 OF 9

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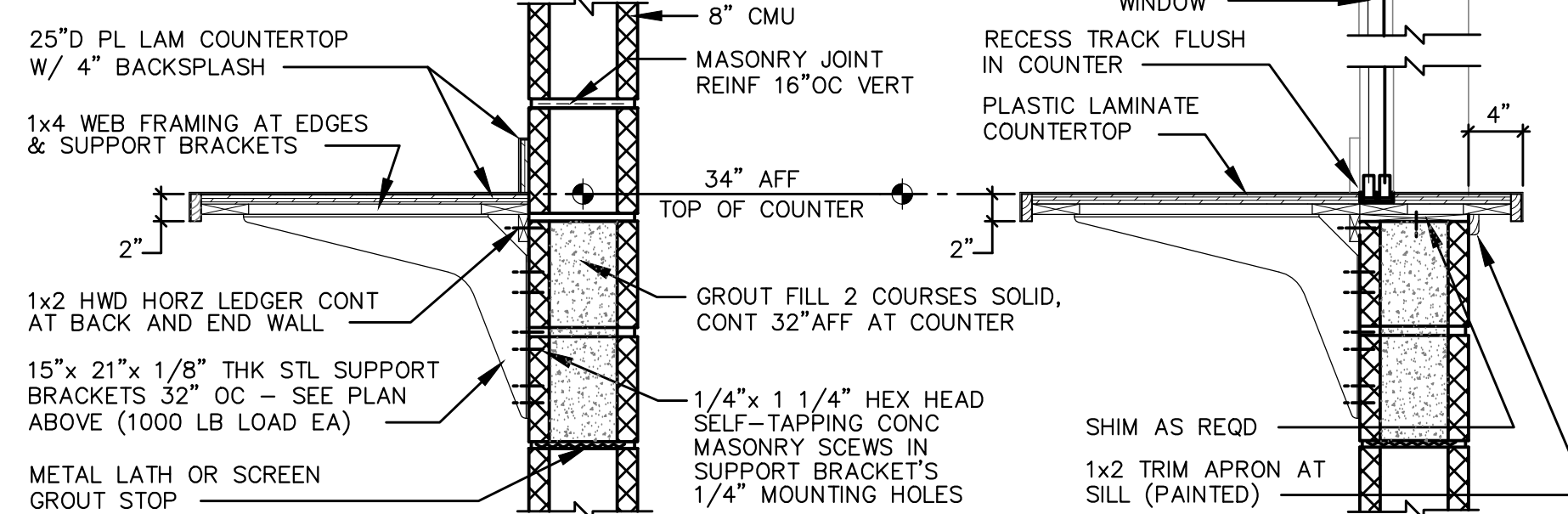
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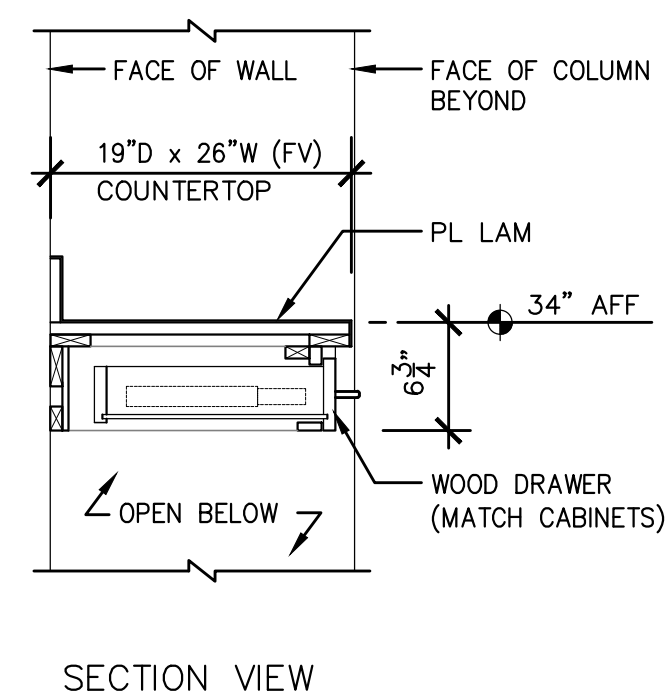
D6 PARTS COUNTER ELEVATION
A8 SCALE: 1/4" = 1'-0" (PARTS ROOM 109)



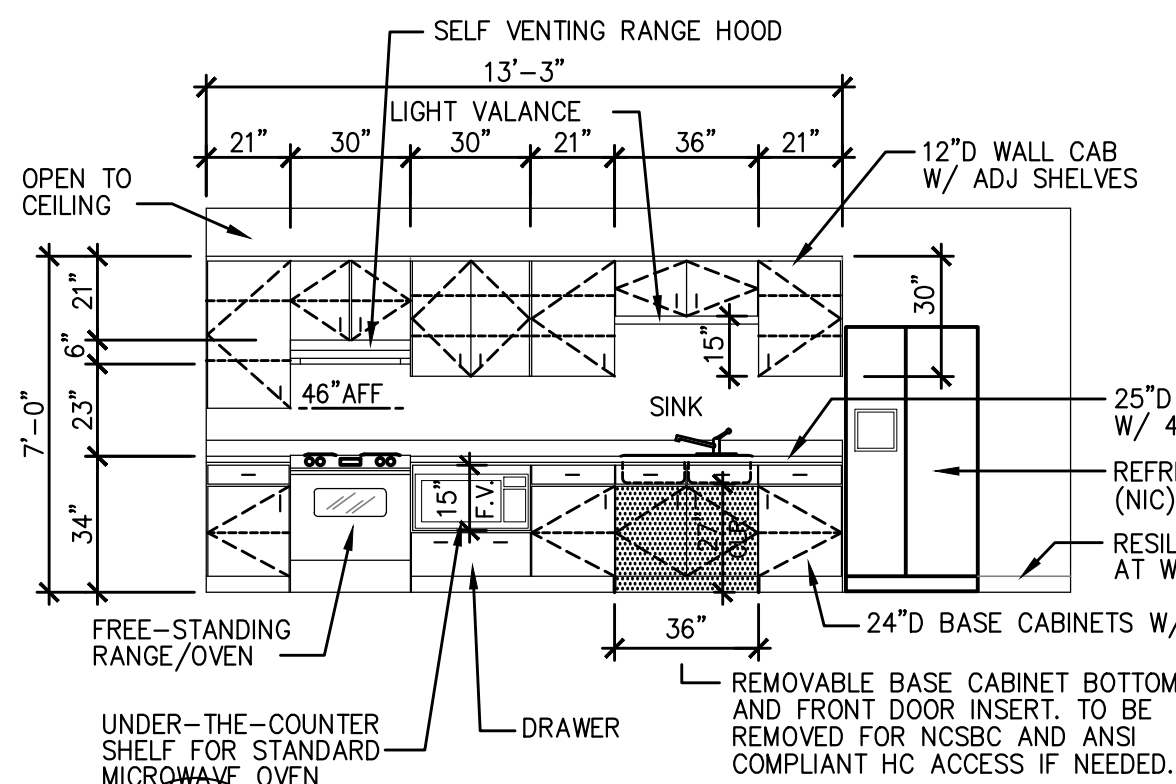
A PLAN AT PASS-THRU WINDOW
SCALE: 1/2" = 1'-0"



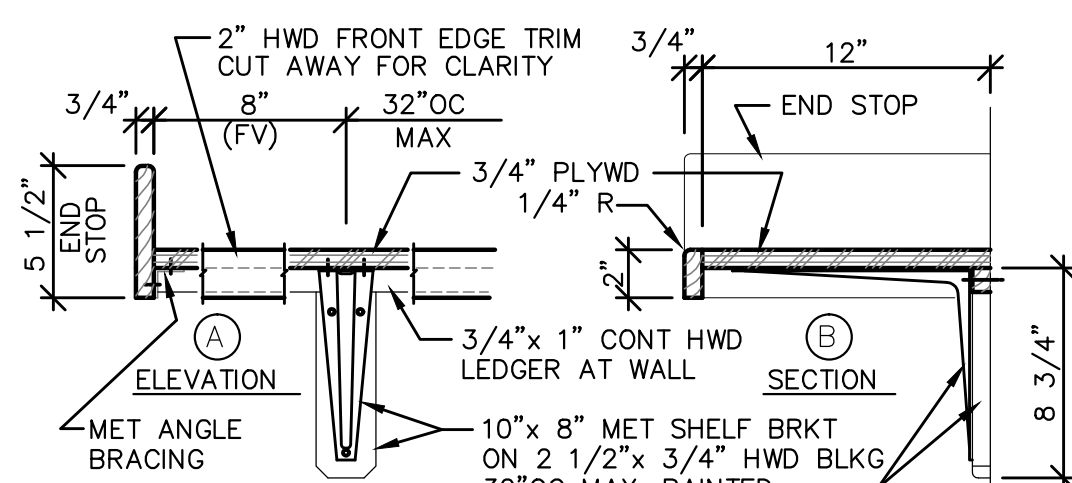
B6 PARTS COUNTER & PASS-THRU WINDOW DETAILS
A8 SCALE: AS NOTED (PARTS ROOM 110)



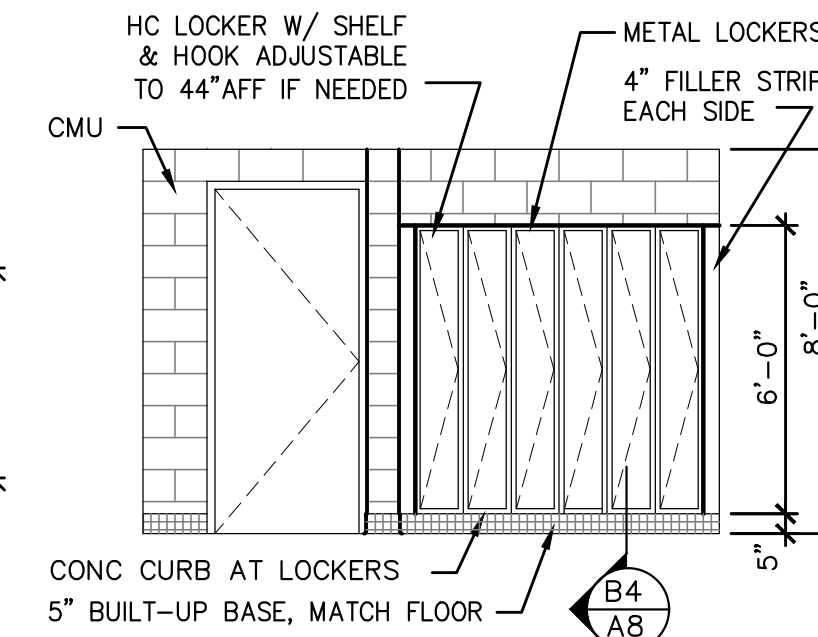
A6 TELEPHONE SHELF
A8 SCALE: 1" = 1'-0" (BREAK ROOM 111)



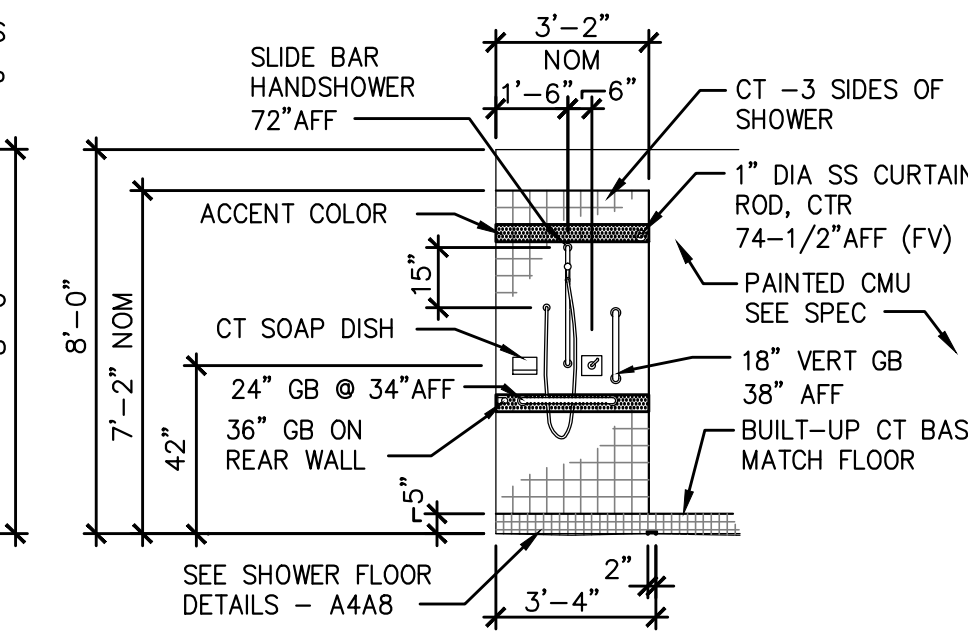
D5 CABINET WALL ELEVATION
A8 SCALE: 1/4" = 1'-0" (BREAK ROOM 111)



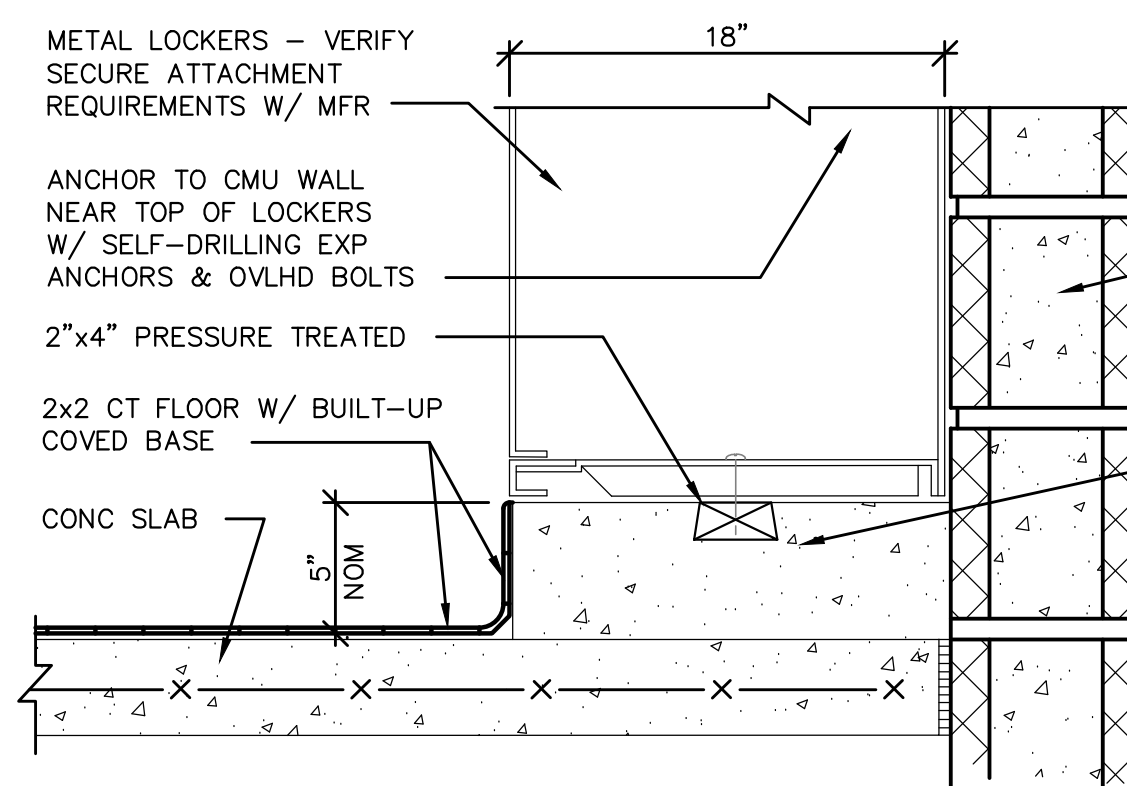
D5 FIXED WALL SHELF
A7 SCALE: 1-1/2" = 1'-0" (PAINTED- SEE FINISH NOTE AT C1A7)



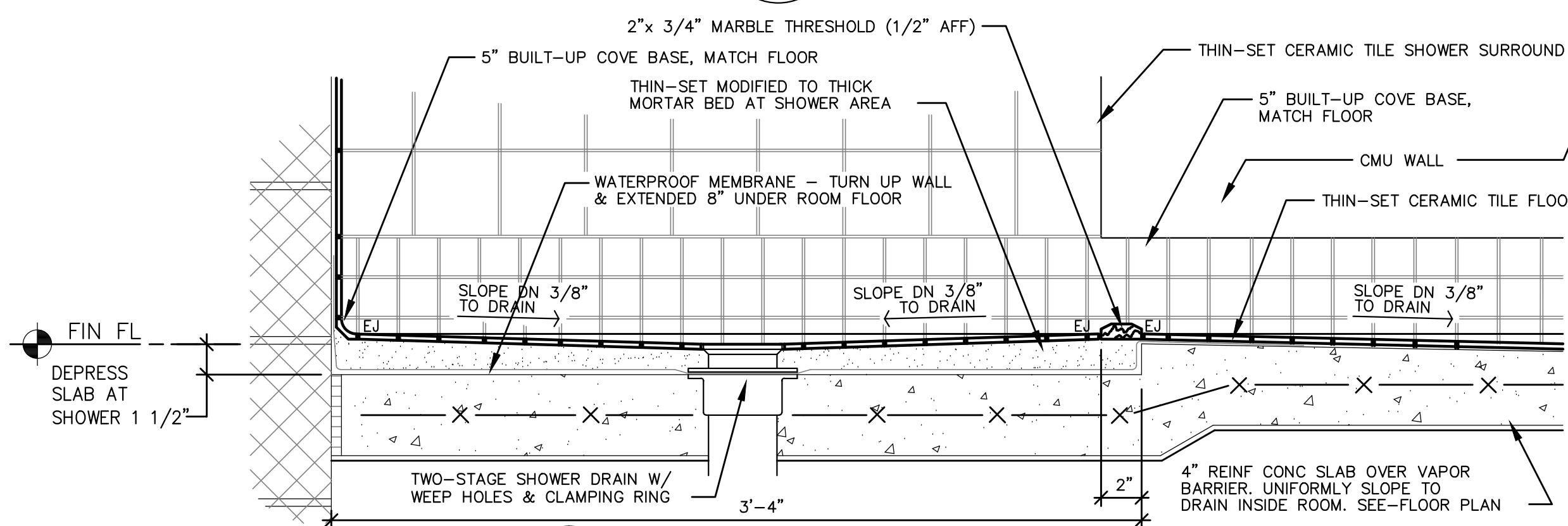
C4 LOCKERS ELEVATION
A8 SCALE: 1/4" = 1'-0" (MEN 106)



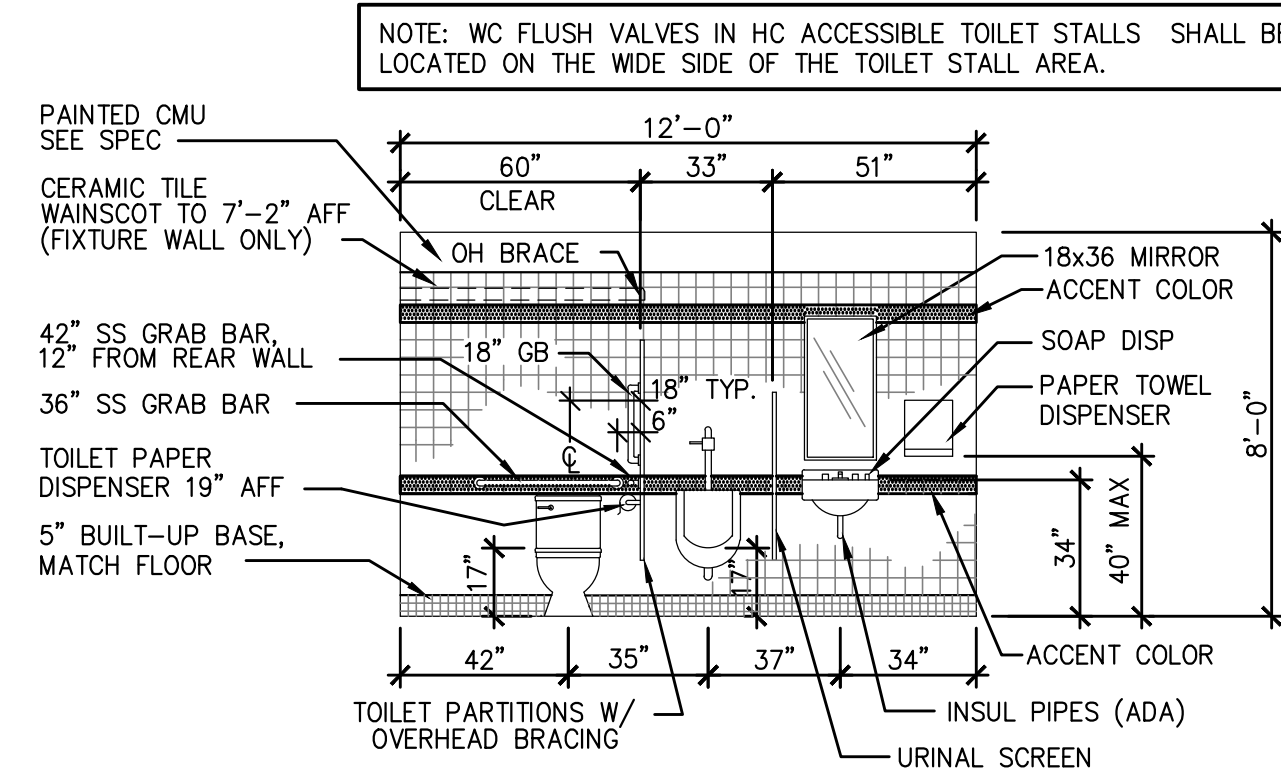
C3 SHOWER ELEVATION
A8 SCALE: 1/4" = 1'-0" (UNISEX 107)



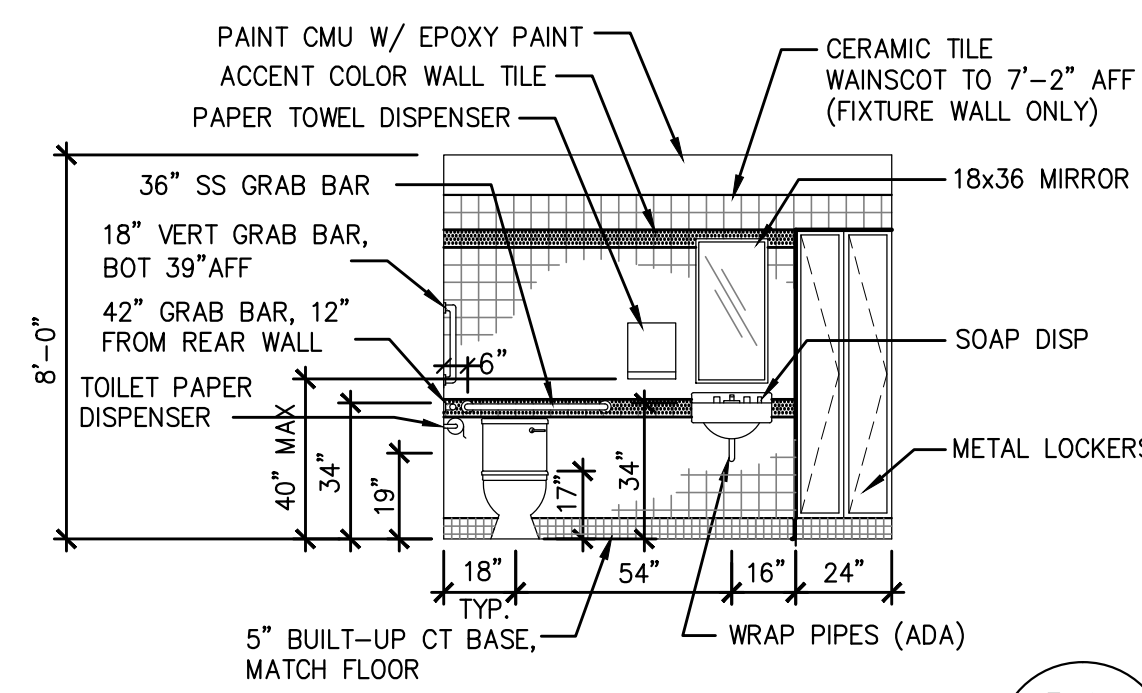
B4 BASE DETAIL AT LOCKERS
A8 SCALE: 1-1/2" = 1'-0"



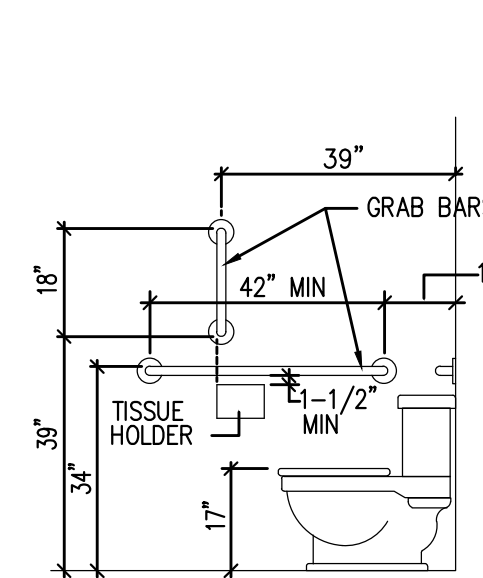
A4 SHOWER FLOOR DETAILS - RM 107
A8 NOT TO SCALE



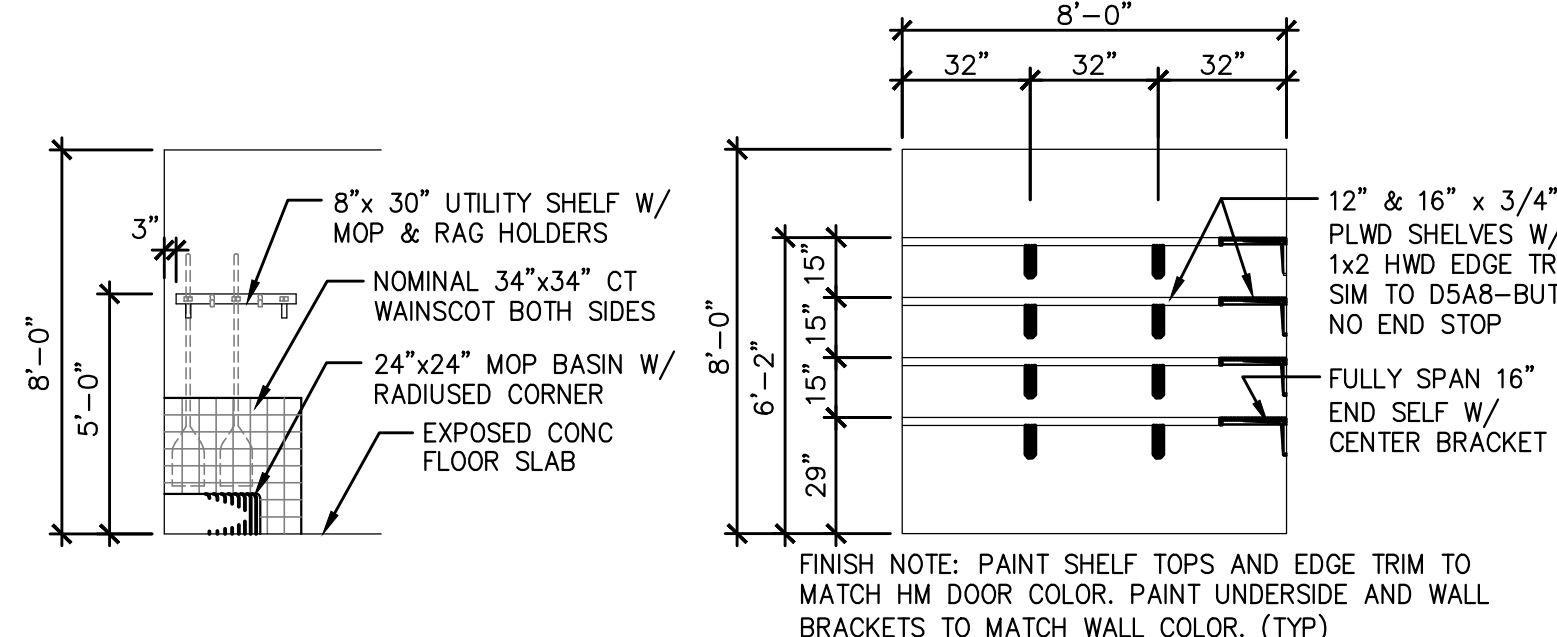
D3 RESTROOM ELEVATION
A8 SCALE: 1/4" = 1'-0" (MEN 106)



D2 RESTROOM ELEVATION
A8 SCALE: 1/4" = 1'-0" (UNISEX 107)

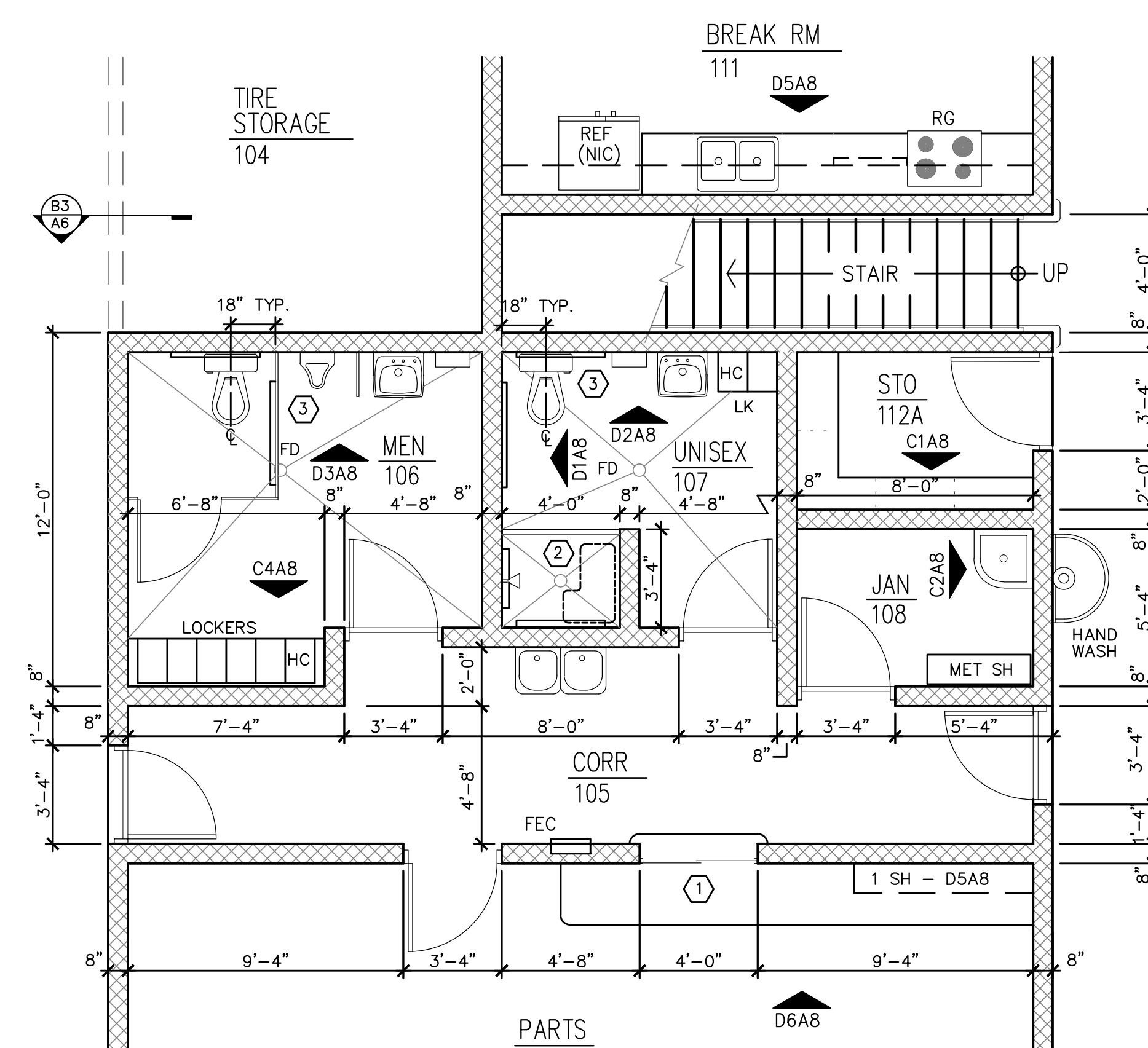


D1 STANDARD TOILET SIDEWALL ELEVATION
A8 SCALE: 3/8" = 1'-0"



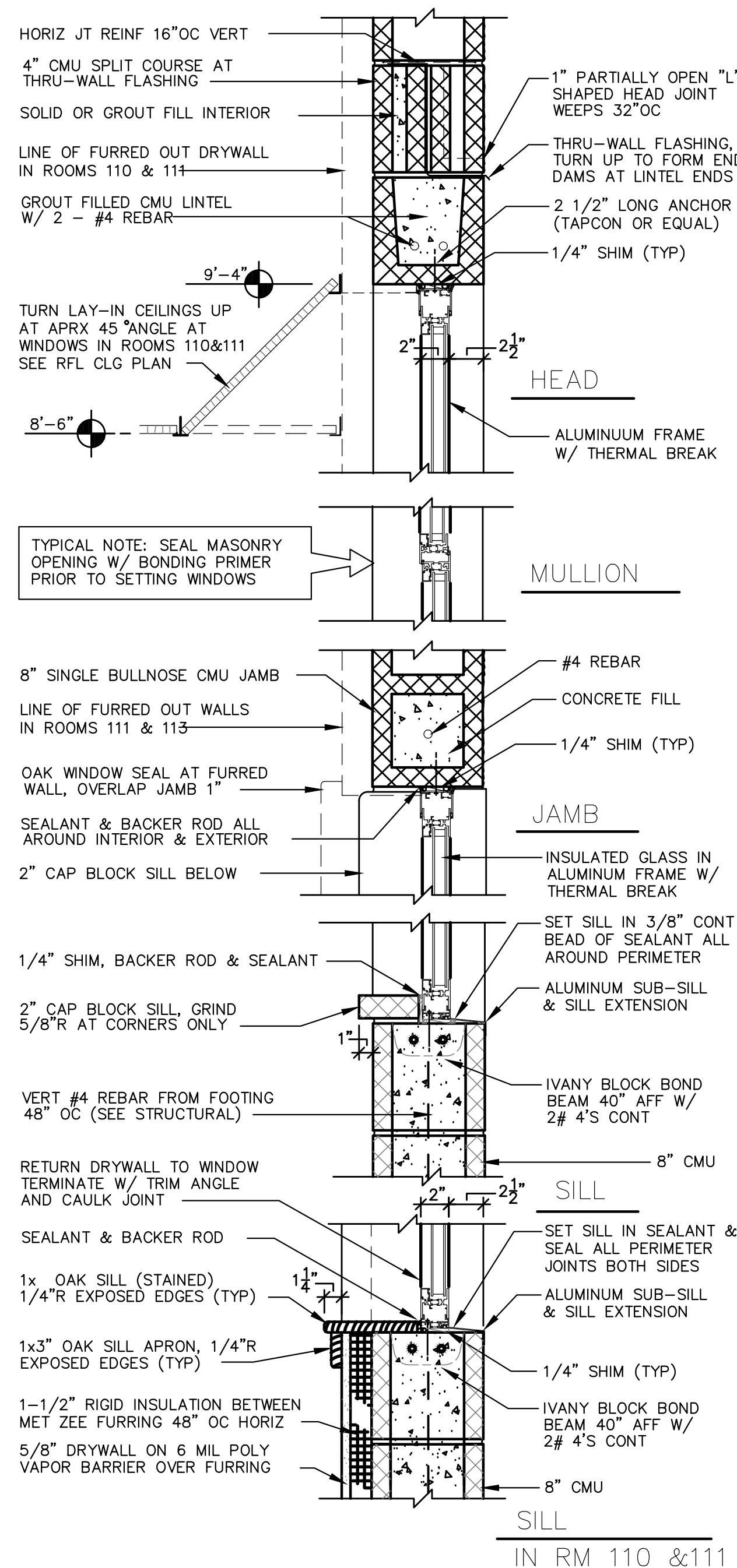
C2 MOP BASIN (JAN 108)
A8 SCALE: 1/4" = 1'-0"

C1 SHELVES (STO 112A)
A8 SCALE: 1/4" = 1'-0"

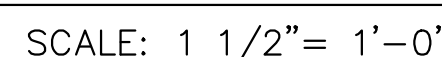


A2 ENLARGED PLAN
A8 SCALE: 1/4" = 1'-0"

- KEYNOTE LEGEND**
- ① PARTS COUNTER & PASS-THRU WINDOW SEE-B6A8
 - ② SHOWER - SEE C3A8. FOLDING SEAT FOR HC ACCESSIBILITY FURNISHED BY GC, INSTALLED BY OWNER.
 - ③ SEE RESTROOM ELEVATIONS FOR PLUMBING FIXTURE AND TOILET PARTITION LOCATION DIMENSIONS.



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



SCALE: 1 1/2" = 1'-0" (UON)

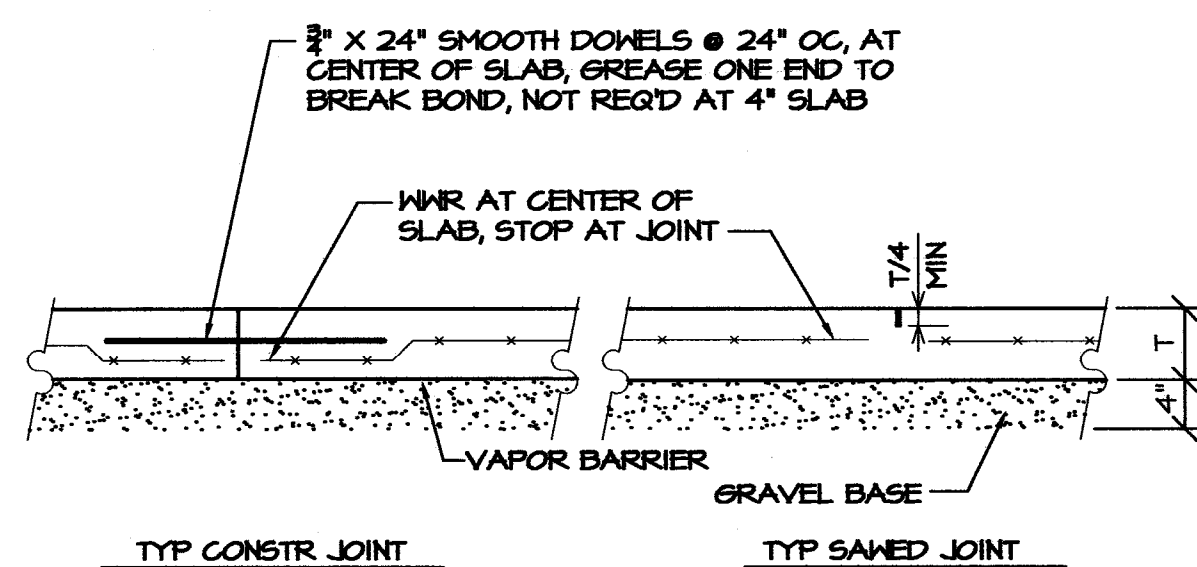
A9 SCALE: 1 1/2" = 1'-0" (UON)

$$1/4'' = 1'-0'$$

NOTES:

- COMPRESSIVE STRENGTH OF CONCRETE FOR FOOTINGS SHALL BE 3000 PSI. CONCRETE FOR FLOOR SLABS SHALL BE 4000 PSI.
- GRANULAR BASE FOR SLABS SHALL HAVE 1-1/2" MAX AGGREGATE SIZE & LESS THAN 2 PERCENT FINES.
- SHOP FOOTING SIZES SHOWN ARE BASED ON ESTIMATED COLUMN REACTIONS, & ARE TO BE VERIFIED BY ENGINEER AFTER RECEIPT OF REACTION REPORT BY BLDG MFR.
- MCJ DENOTES WALL CONTROL JOINTS IN MASONRY WALLS. SEE PLANS & ARCHITECTURAL ELEVATIONS FOR LOCATIONS. MASONRY CONTROL JOINTS SHALL HAVE CONT. PREFORMED MASONRY CONTROL JOINT GASKET.
- VERIFY LIFT PIT LOCATIONS & DIMENSIONS W/ ARCHITECTURAL PLANS & APPROVED EQUIPMENT SHOP DRAWINGS.
- COORDINATE FLOOR SLOPES & DEPRESSIONS W/ ARCHITECTURAL & PLUMBING PLANS.
- REINFORCING STEEL SHALL MEET ASTM A 615, GRADE 60.
- ELEVATIONS SHOWN ON STRUCTURAL PLANS ARE RELATIVE TO THE FIN FLOOR ELEVATION = +0'-0".
- CJ DENOTES SLAB CONTROL JOINT, SEE DETAIL 2/SI.
- GROUT CMU SOLID UP TO 3'-4" AFF IN WALLS ADJACENT TO VEHICULAR TRAFFIC. PROVIDE #4 VERT REINF 24" OC; PROVIDE BOND BEAM W/ (2) #4S CONT AT 3'-4" AFF.
- SHOP DOOR & WINDOW FRAMING BY BLDG MFR. COORD REQ'D JAMBS AT OVERHEAD DOORS W/ OVERHEAD DOOR MFR.
- PROVIDE 3" COVER FOR REINF IN FOOTINGS CAST AGAINST SOIL.

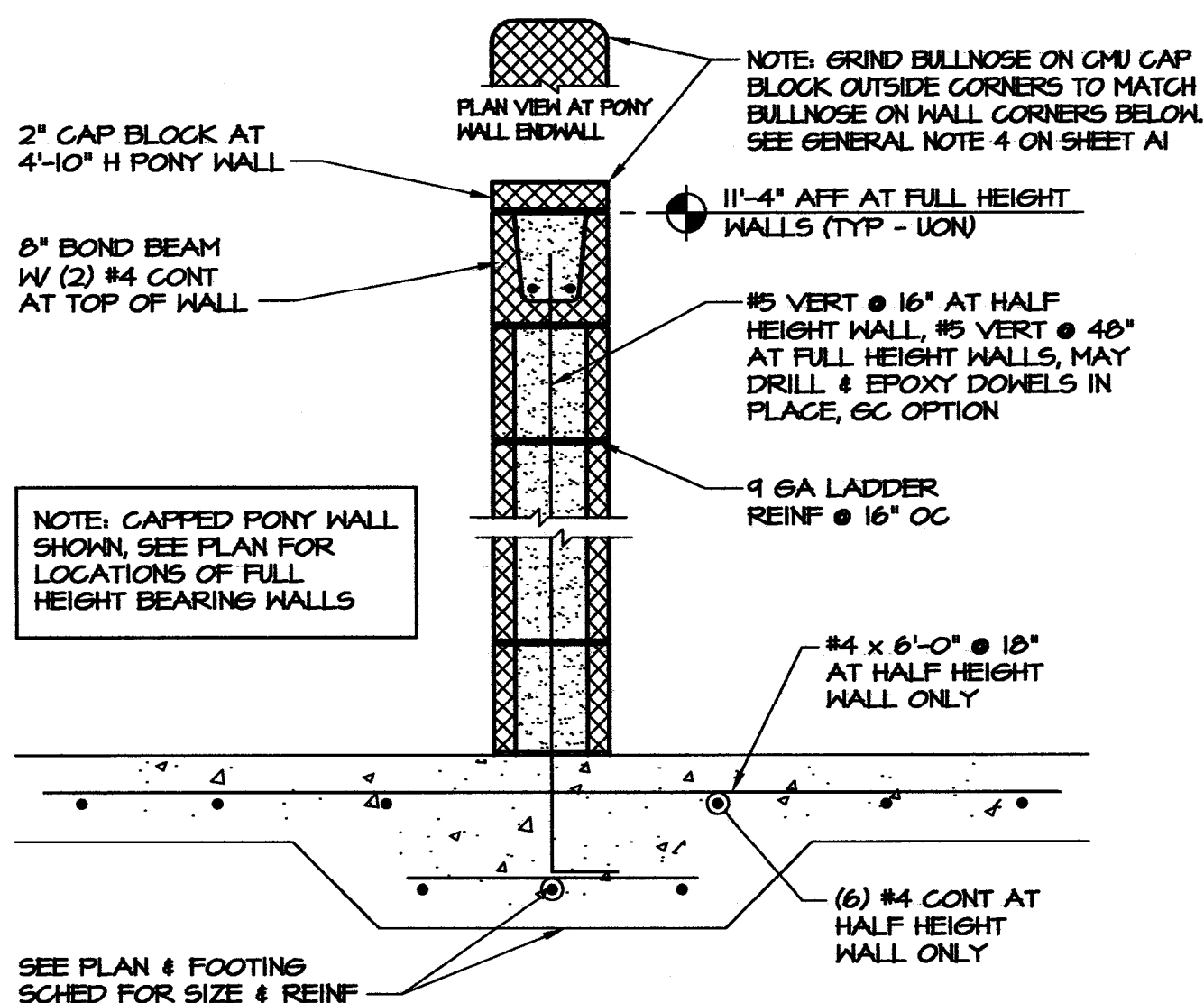
NOTE: DO NOT CUT OR STOP CONT #5 BARS SHOWN AT GRID LINES 2 THRU 6, SEE PLAN



TYPE OF JOINT IS OPTIONAL W/ CONTRACTOR
"T" INDICATES SLAB THICKNESS

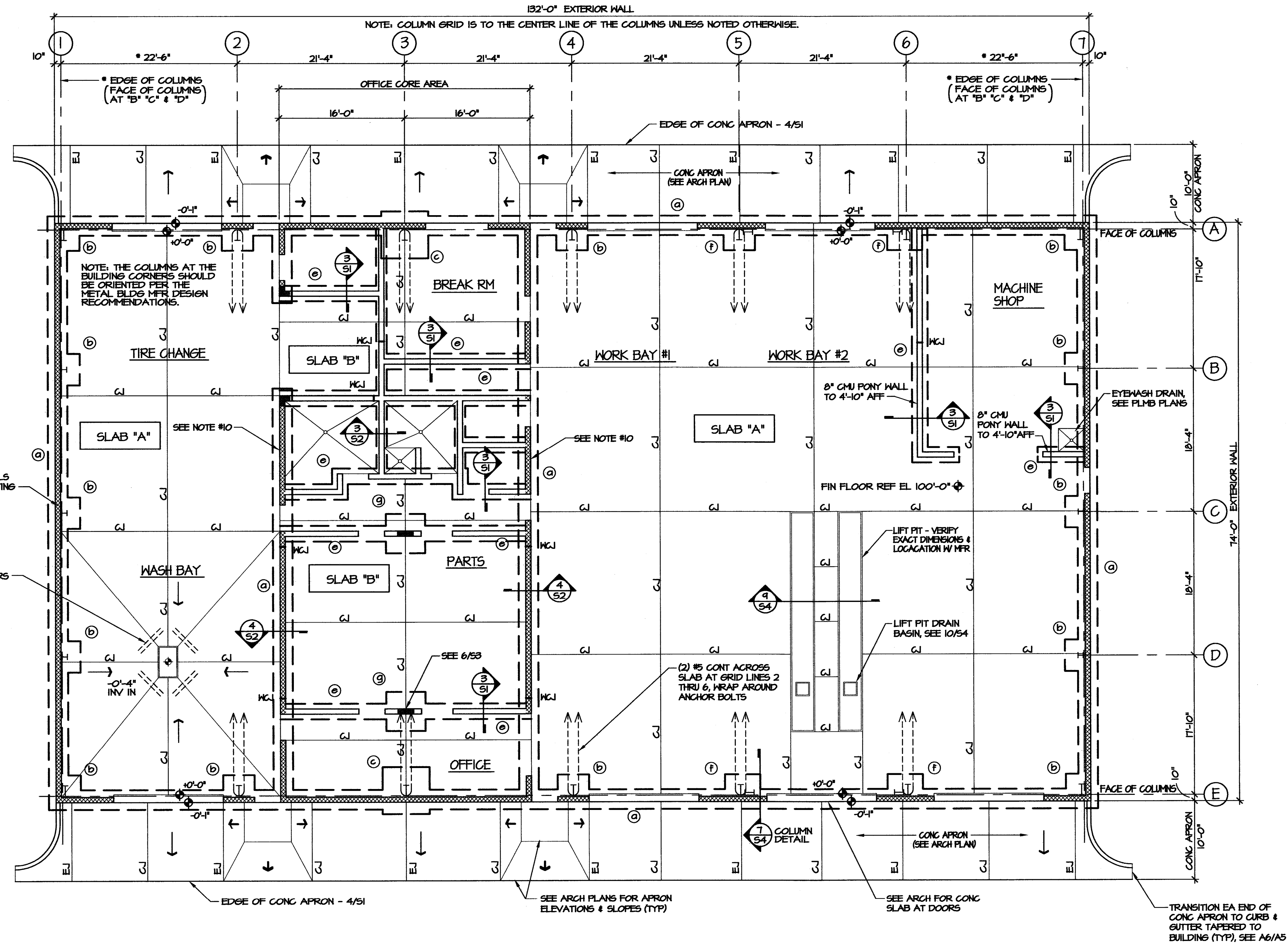
2 SLAB JOINT DETAILS

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



3 TYPICAL THICKENED SLAB

SCALE: 1" = 1'-0" (AT INTERIOR WALLS)



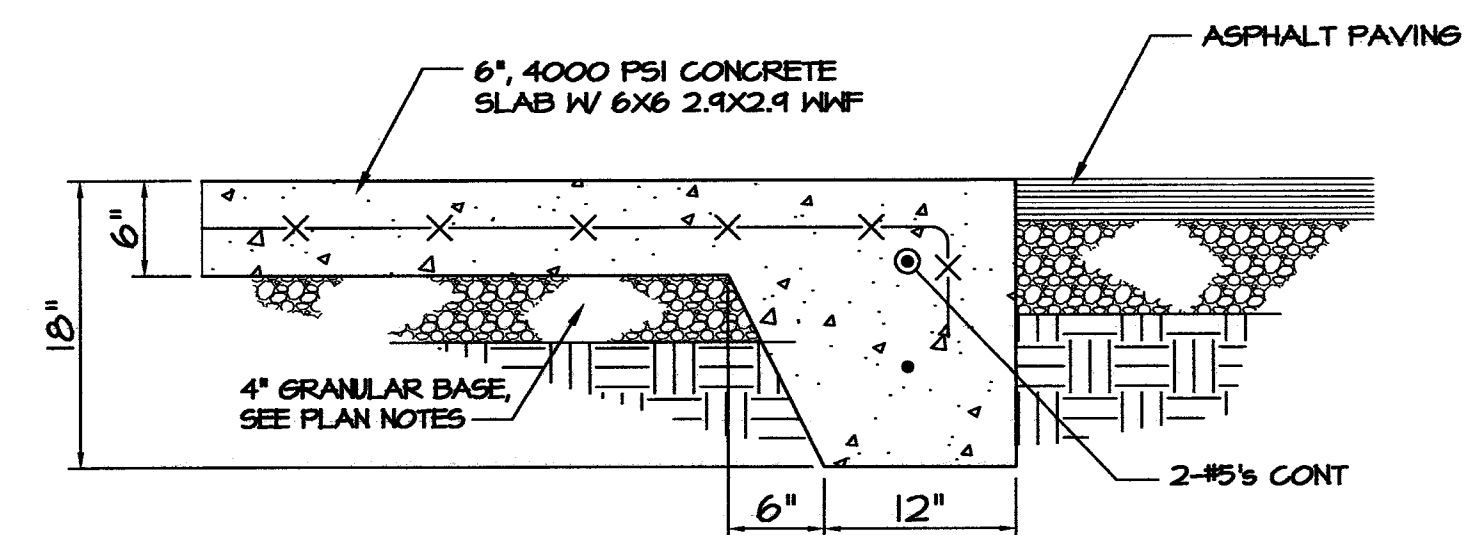
1 FOUNDATION PLAN

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

FOOTING SCHEDULE

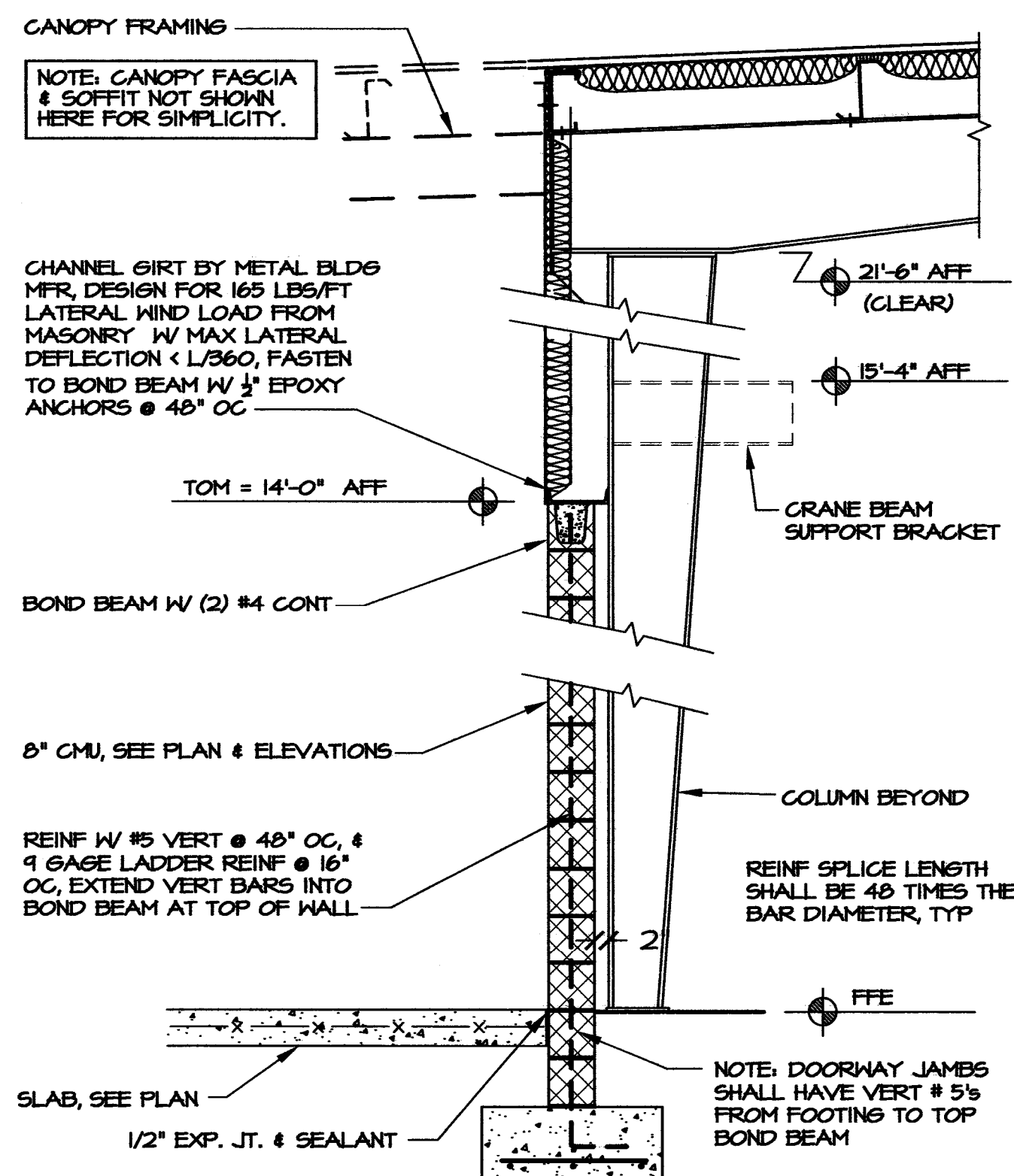
MARK	SIZE	REINFORCEMENT
a	2'-6" X 1'-0" CONTINUOUS	(3) #5 CONT. W/ #4 TIES @ 24"
b	4'-0" X 4'-0" X 1'-0"	(4) #5 E.W. TOP & BOTTOM
c	6'-0" X 6'-0" X 1'-0"	(6) #5 E.W.
d	3'-0" X 3'-0" X 1'-0"	(3) #5 E.W. TOP & BOTTOM
e	2'-0" X 1'-0" LUG FTG	(3)-#5 CONT. W/ #4 TIES @ 24"
f	4'-6" X 4'-0" X 1'-0"	(4) #5 E.W. TOP & BOTTOM
g	5'-0" X 5'-0" X 1'-0" LUG FTG	(4) #5 E.W. TOP & BOTTOM

NOTE: ALL STRIP FOOTINGS ARE TYPE 1a UON

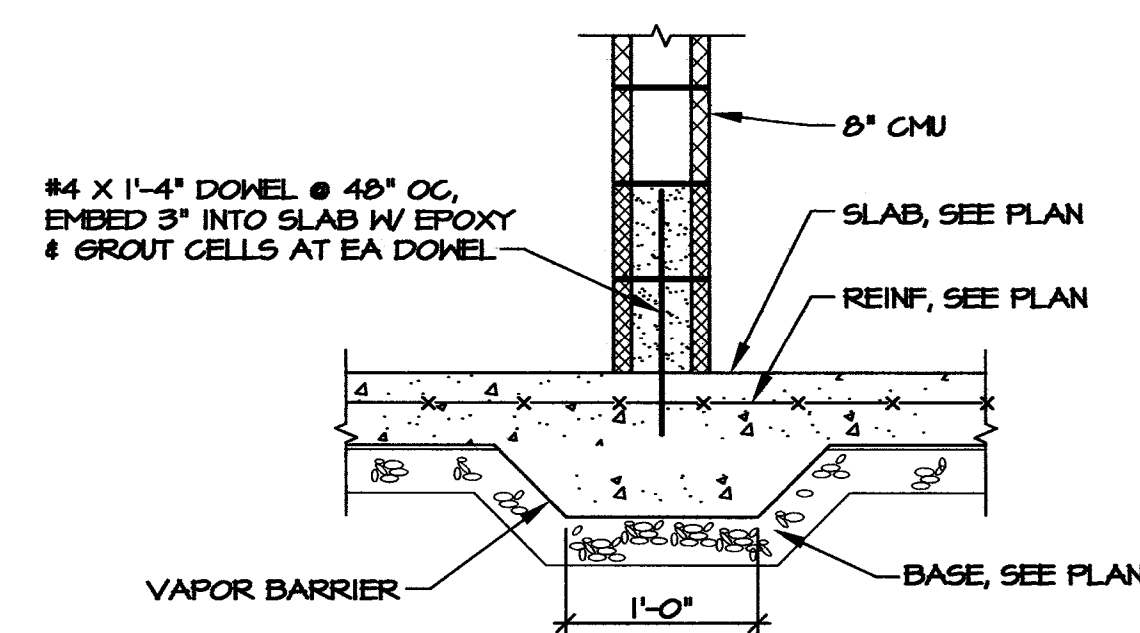


4 CONG APRON LUG FOOTING

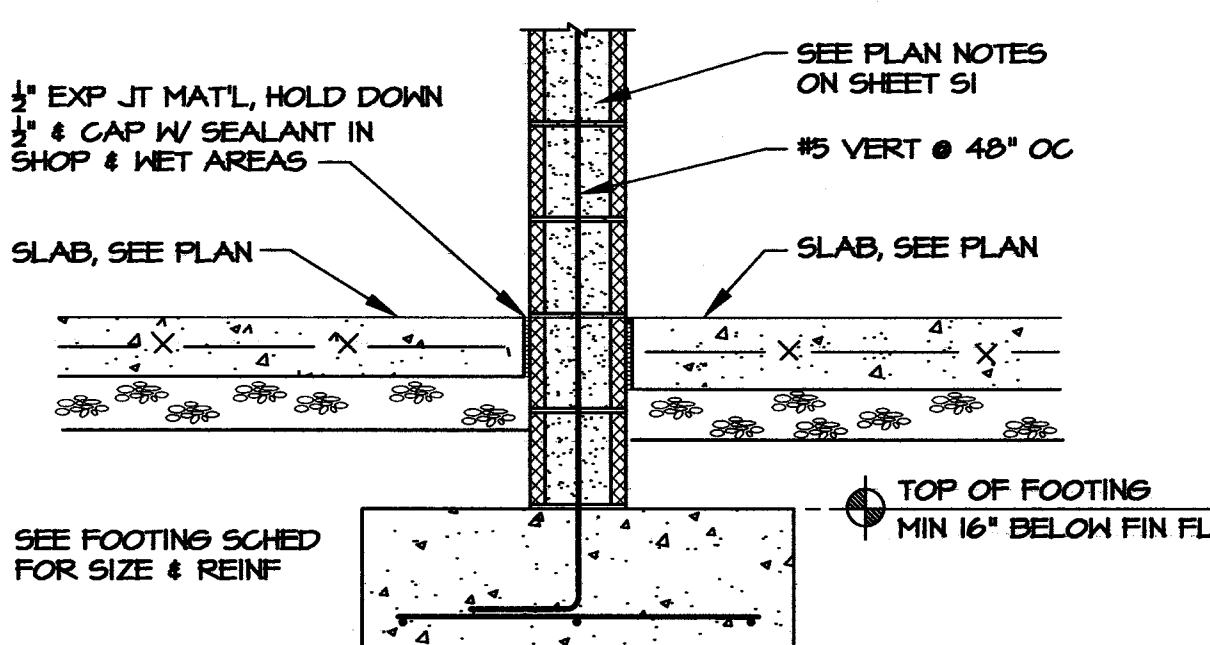
SCALE: 1" = 1'-0"



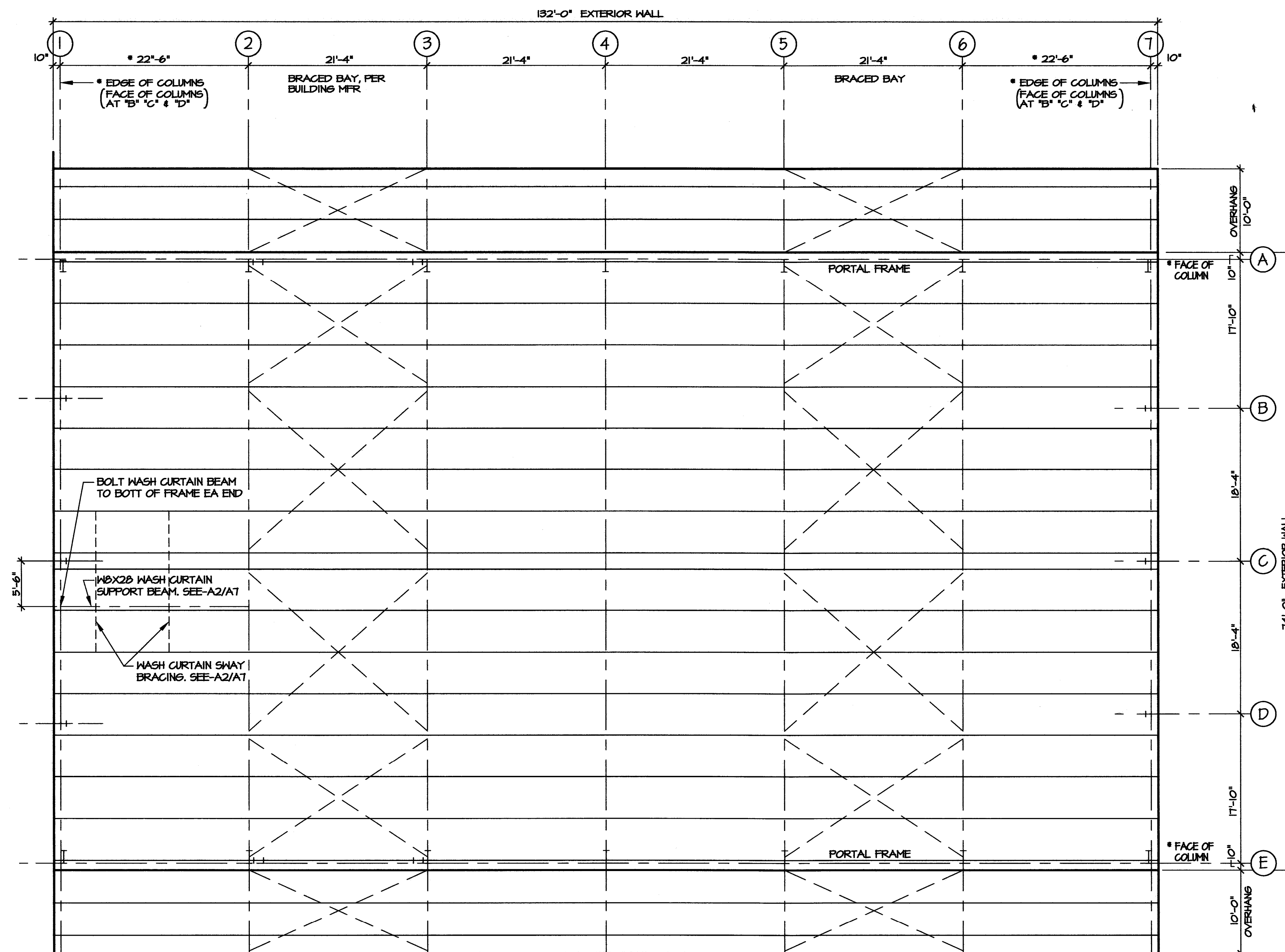
2 TYP EXTERIOR WALL SECTION
SCALE: 1/2" = 1'-0"



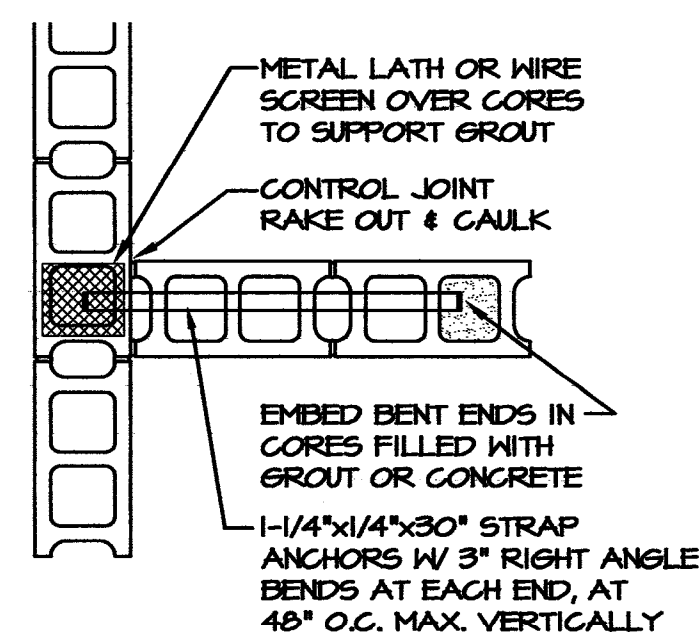
3 INTERIOR NON-BEARING WALL
SCALE: 3/4" = 1'-0"



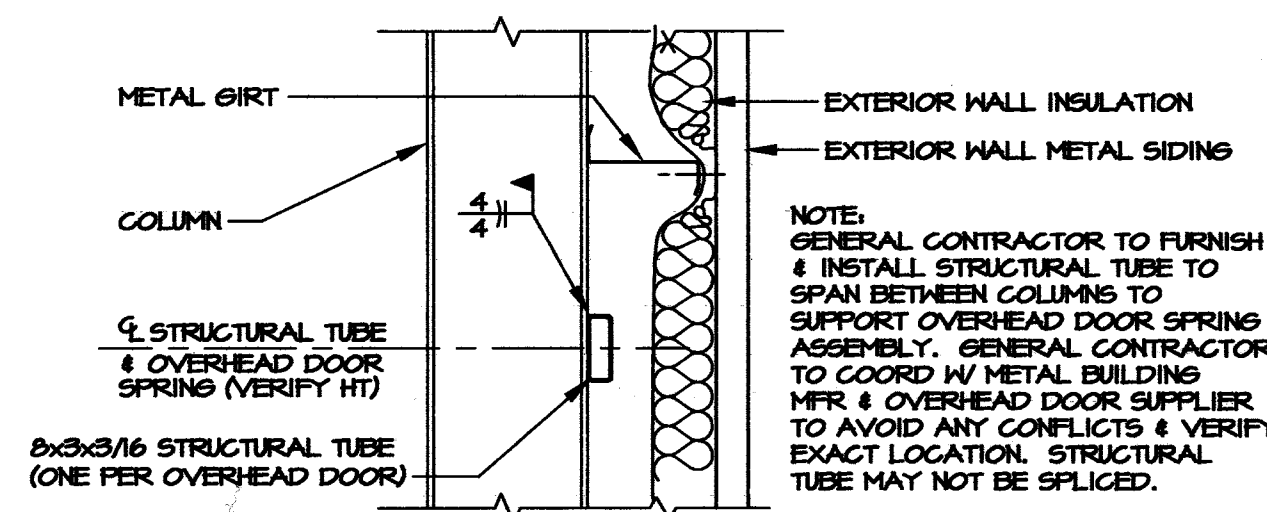
4 INTERIOR LOAD BEARING WALL
SCALE: 3/4" = 1'-0"



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



5 CMU WALL INTERSECTION
SCALE: 3/4" = 1'-0"



6 OH DOOR SPRING SUPPORT
SCALE: 1/2" = 1'-0"

- NOTES:**
- SEE SHEET T1 FOR DESIGN CRITERIA. ROOF LIVE LOADS MAY BE REDUCED IN ACCORDANCE WITH NCBC.
 - DESIGN BUILDING FOR 5 PSF COLLATERAL LOAD IN ADDITION TO SPECIFIED LOADS. COORDINATE W/ MECH FOR SUPPORTED EQUIPMENT.
 - BUILDING END WALLS ARE NOT EXPANDABLE.
 - DESIGN FRAMING TO COMPLY W/ AISC DESIGN GUIDE 3, "SERVICEABILITY DESIGN CONSIDERATIONS FOR LOW-RISE BUILDINGS," UNLESS OTHERWISE NOTED. LIMIT BUILDING DRIFT TO H/200.

DOBSON EQUIPMENT SHOP
HIGHWAY DIVISION 11, NCDOT
SURRY COUNTY • NORTH CAROLINA

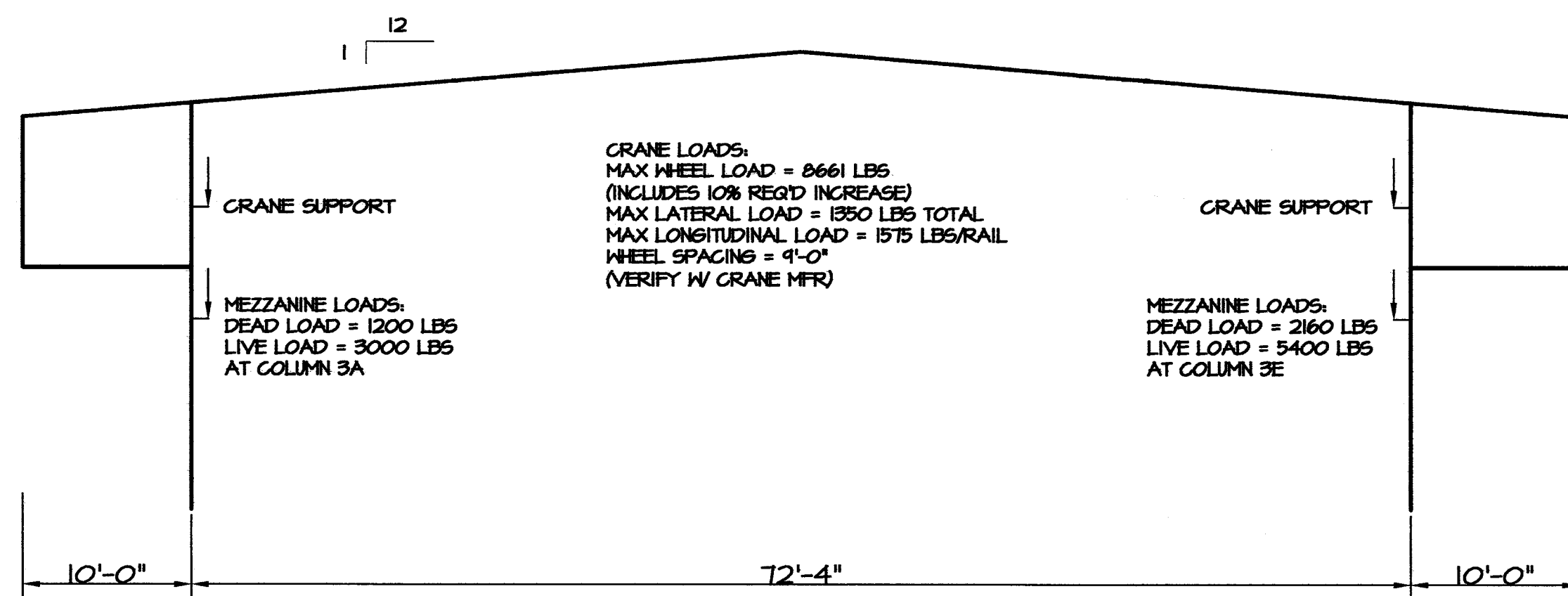
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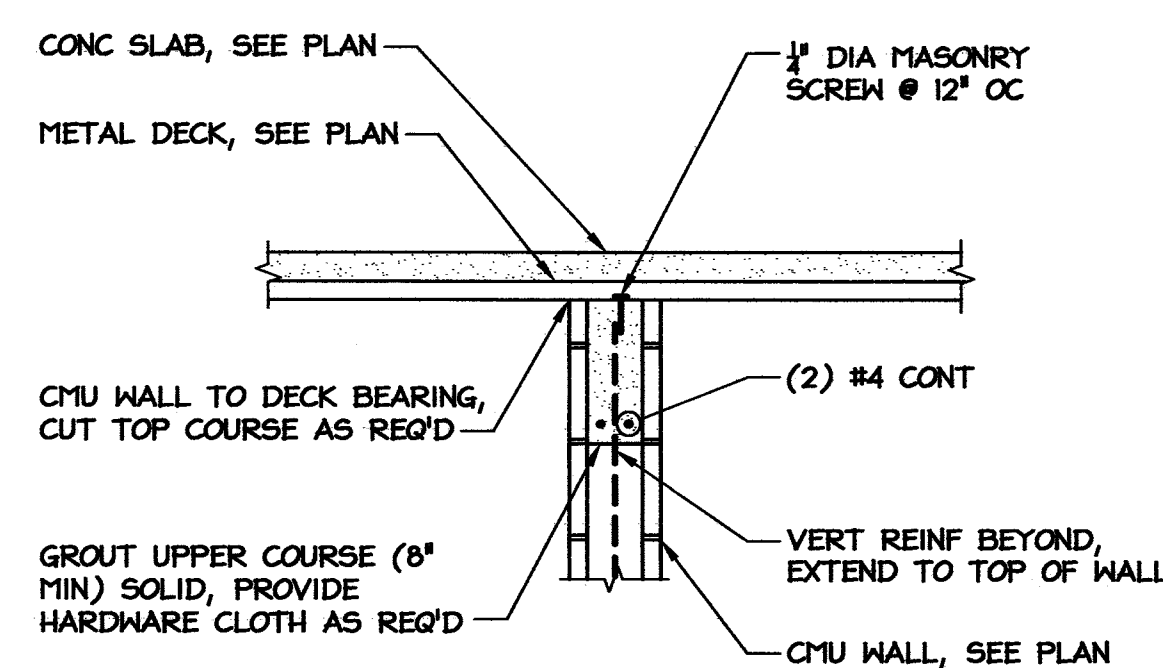
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COMM: JBC
SCO ID#: 12-01354-02A
DATE: 01-09-2013

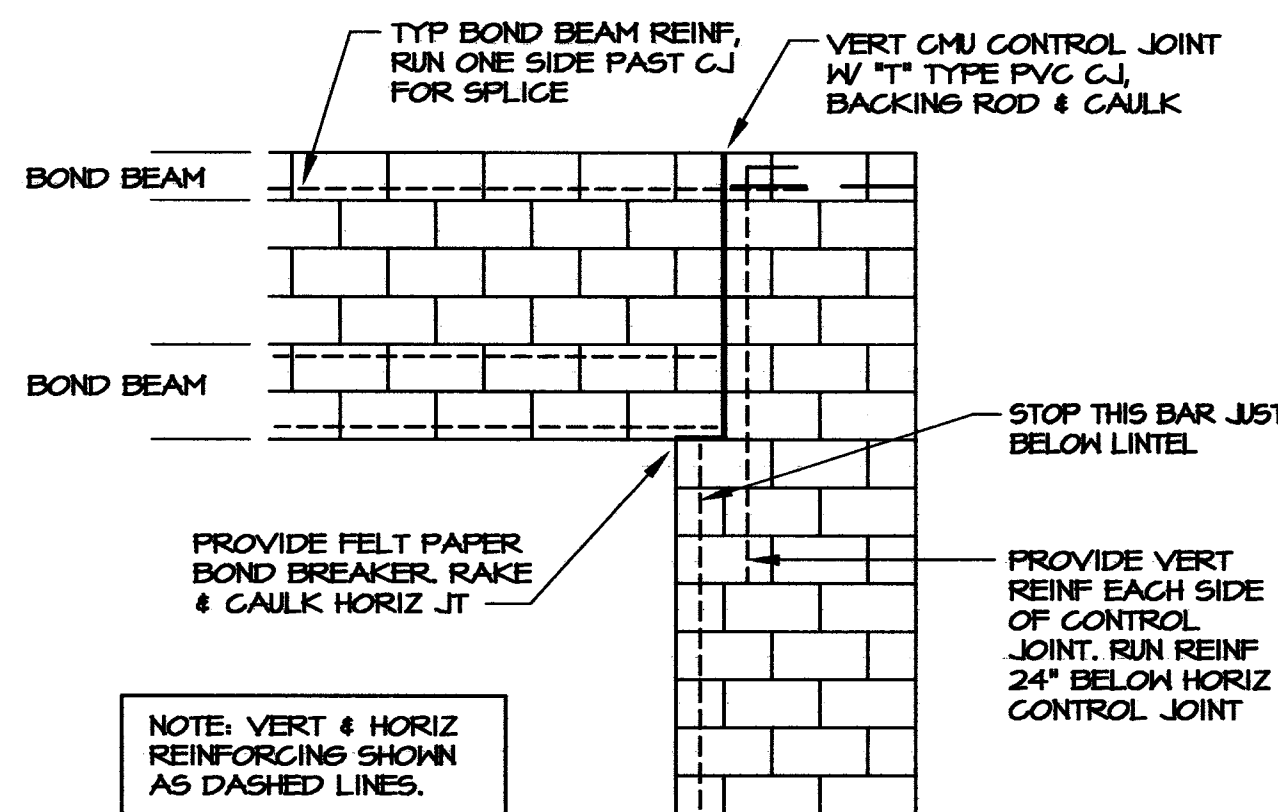
S2 OF 4



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

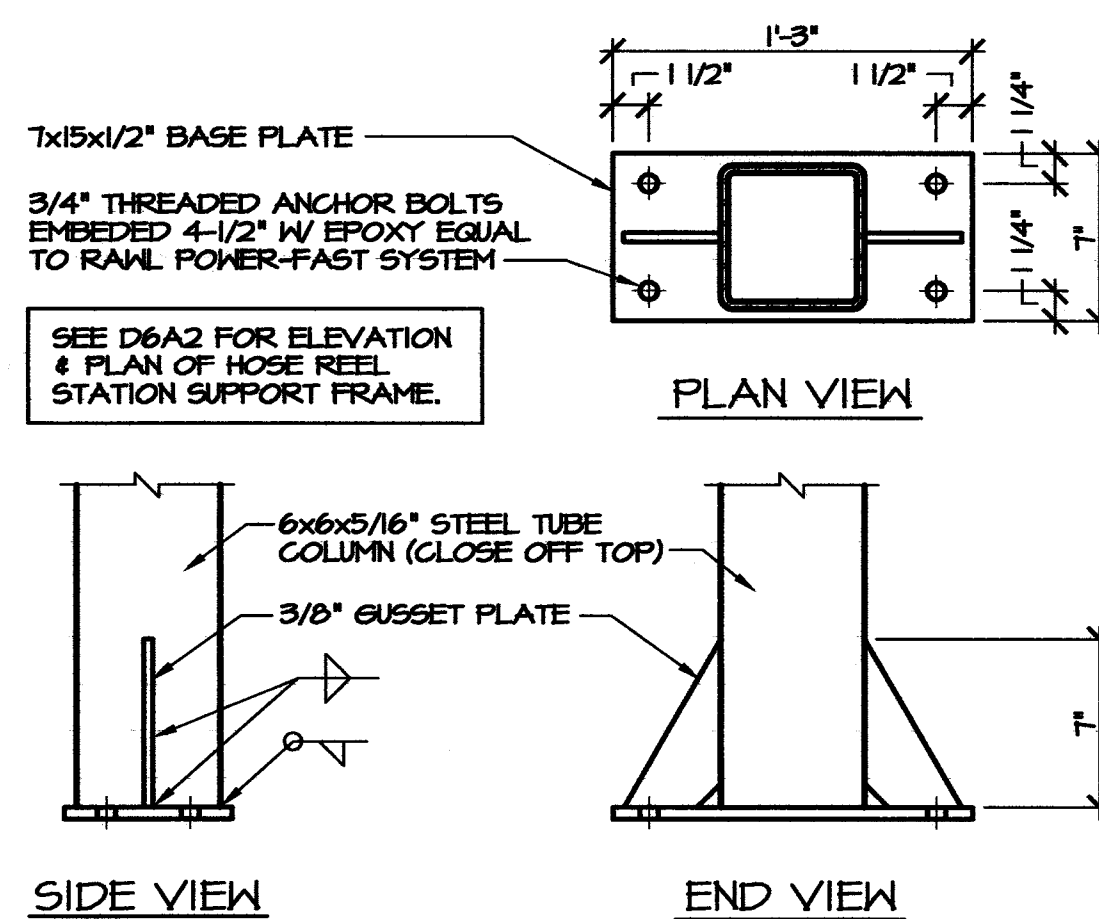


2 DECK BEARING ON CMU
SCALE: 3/4" = 1'-0"

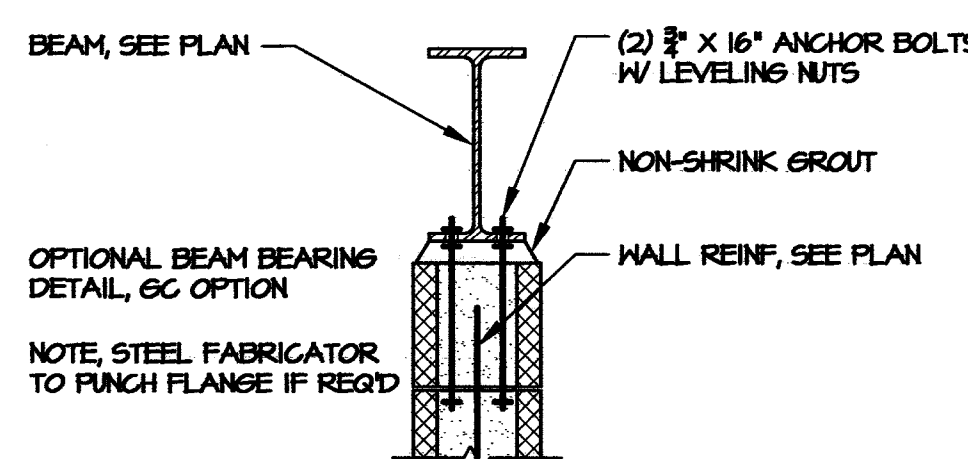


3 TYP CMU CONTROL JOINT
SCALE: 3/8" = 1'-0"

NOTE: METAL BUILDING MFR IS RESPONSIBLE FOR ALL STEEL BUILDING FRAMING, INCLUDING FRAMING SYSTEM FOR SOFFIT & FASCIA TO CONFORM W/ SHAPE SHOWN ON ARCHITECTURAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING W/ ALL TRADES TO ASSURE PROPER CLEARANCES & FIT-UP OF BUILDING PARTS & SYSTEMS.



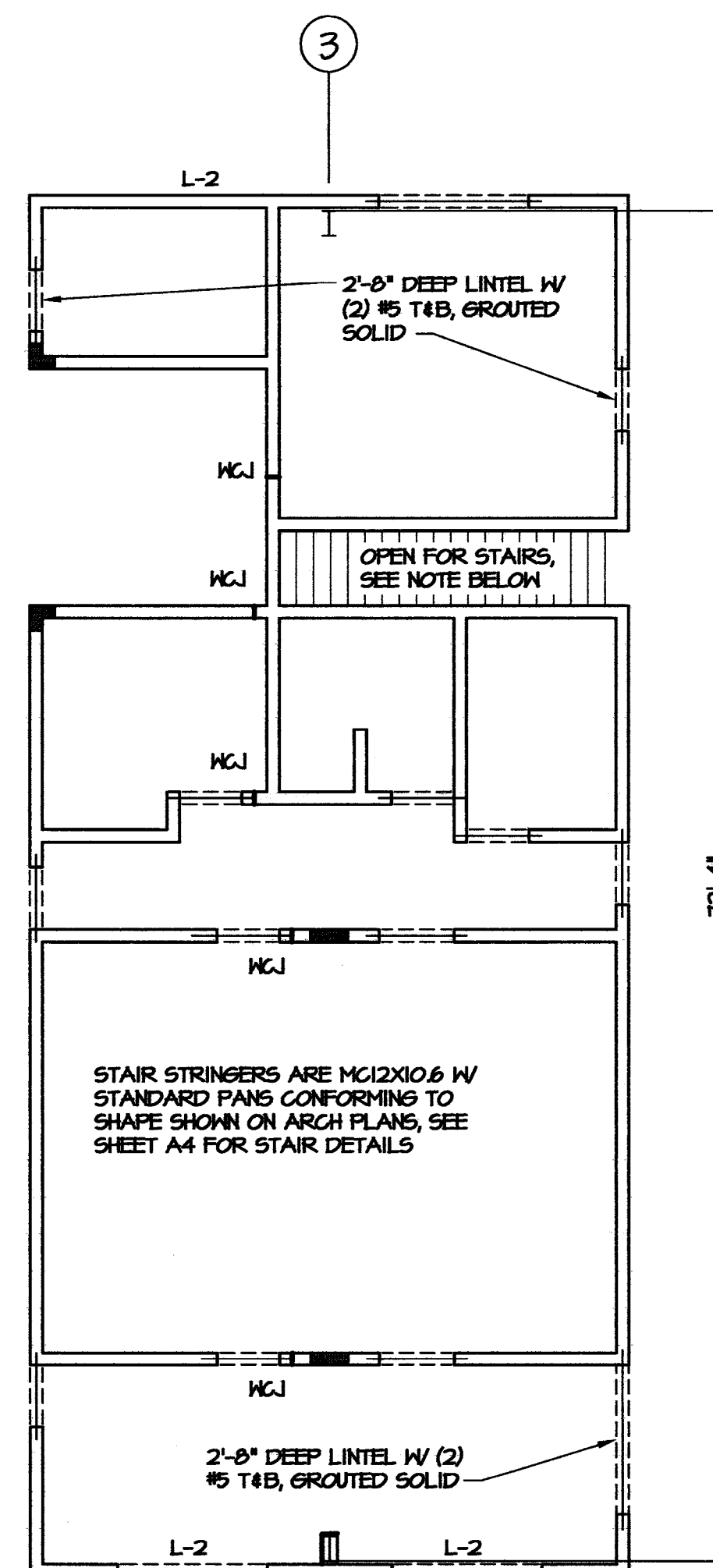
8 HOSE REEL STATION COLUMN BASE DETAIL
SCALE: 3/4" = 1'-0"



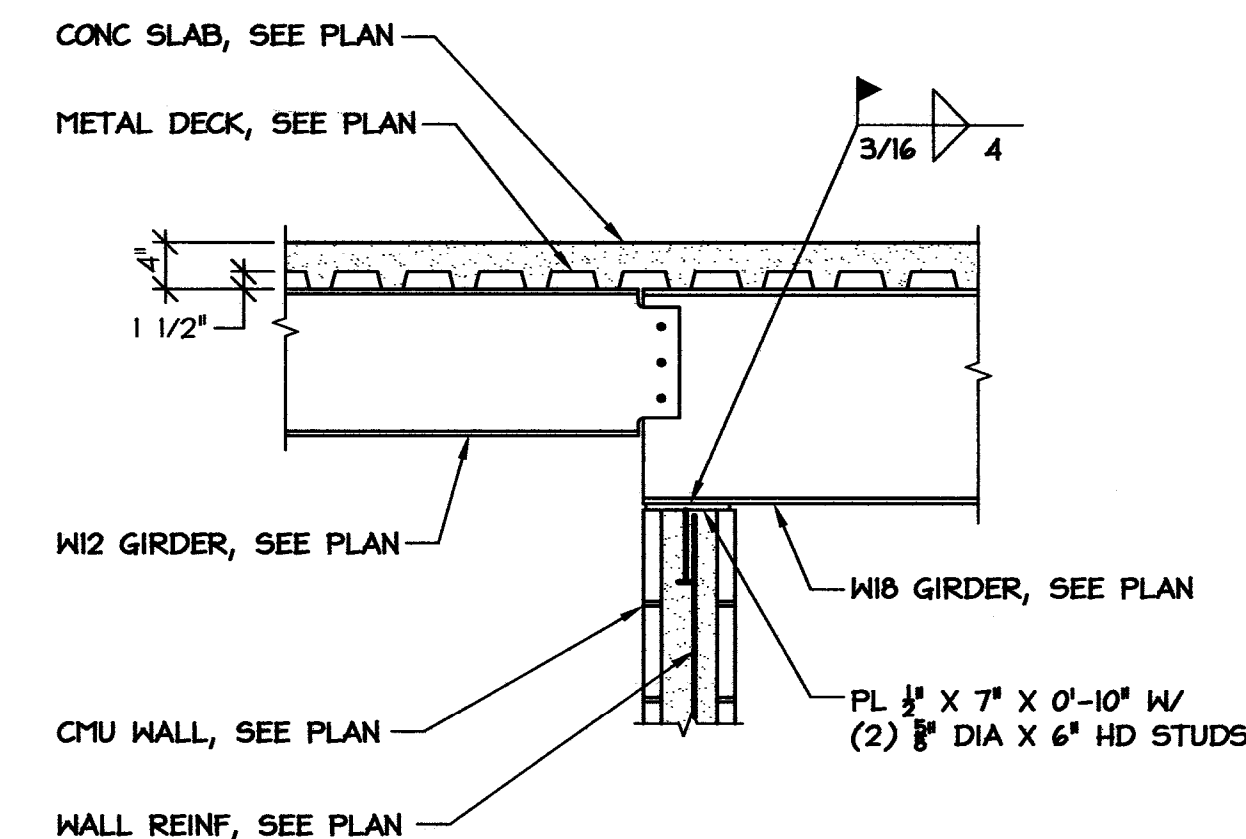
4 ALT BEAM BRG ON CMU
SCALE: 1" = 1'-0"

MASONRY WALL LINTEL SCHEDULE				
NOTES: 1. ALL UNSCHEDULED OPENINGS INCLUDING OPENINGS FOR MECHANICAL WORK SHALL BE PROVIDED WITH LINTELS IN ACCORDANCE WITH THIS SCHEDULE. USE THE FOLLOWING N.C. CONCRETE MASONRY ASSOCIATION STYLES OF LINTEL BLOCK. NCCMA-#6016-55, #12016-54. 2. REINF. IN CMU LINTELS TO HAVE 1 1/2" TOP & BOTTOM COVER U.O.N. 3. PROVIDE PROPER SUPPORT OF CMU LINTEL DURING CONSTRUCTION. DO NOT REMOVE SUPPORT UNTIL LINTEL HAS ATTAINED ADEQUATE STRENGTH TO SUPPORT LOAD ABOVE OPENING.				
TYPE	OPENINGS	6" OR 8" WALL	10" OR 12" WALL	BEARING
L-1	2'-0" TO 5'-4"	8" 2-#4	8" 2-#4	8"
L-2	5'-4" TO 8'-0"	16" 2-#5 2-#5	16" 2-#5 2-#5	8"
L-3	3'-4" UNDER STAIR	VARIES STAIR STRINGER SLOPING DOUBLE L3 1/2x3x1/4" CUT CMU TO MATCH STRINGER SLOPE		4" & 8"

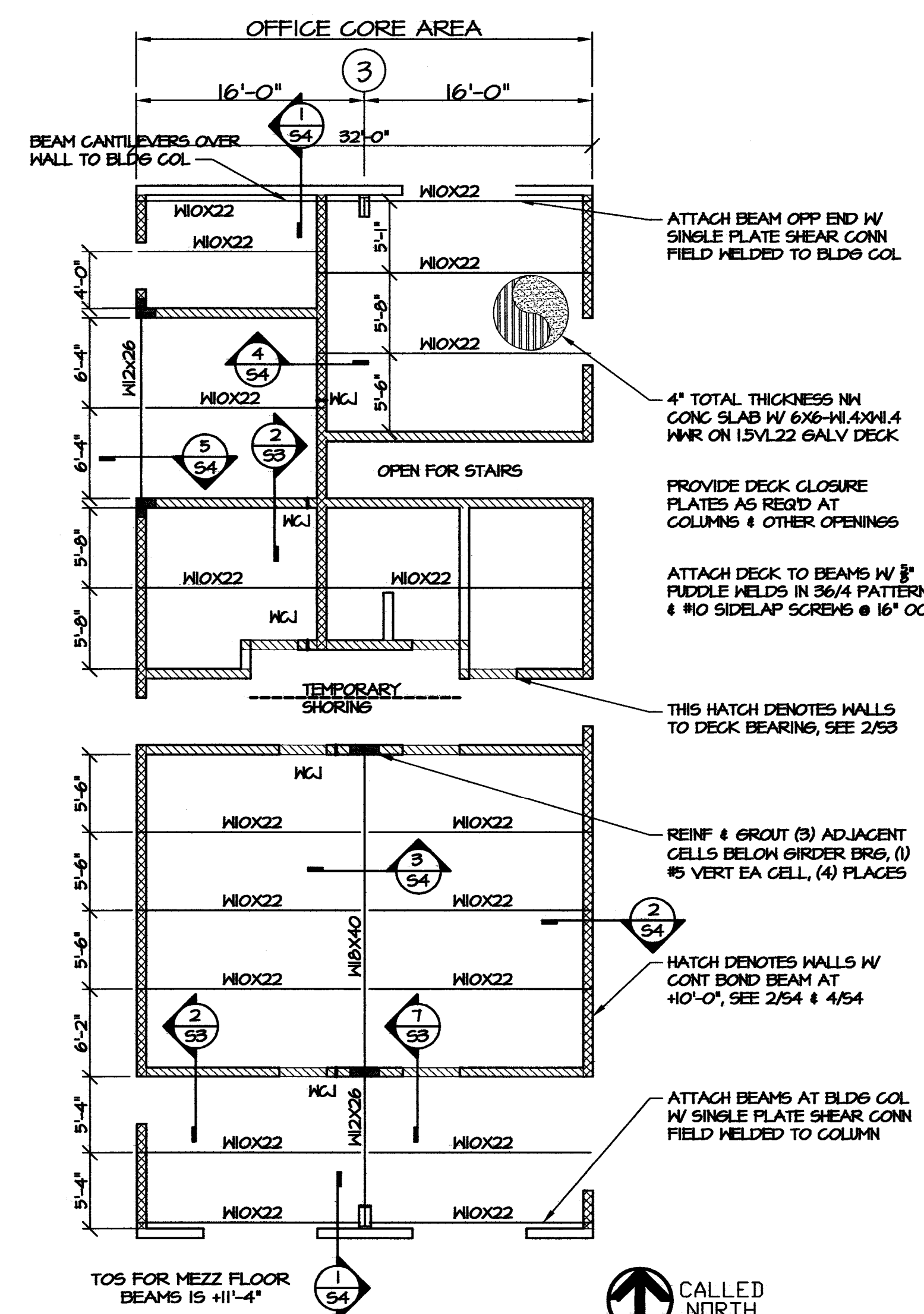
NOTE: ALL LINTELS ARE L-1 (NON). LINTELS OVER ALL PERSONNEL DOORS (NOT SHOWN BELOW) ARE L-1.



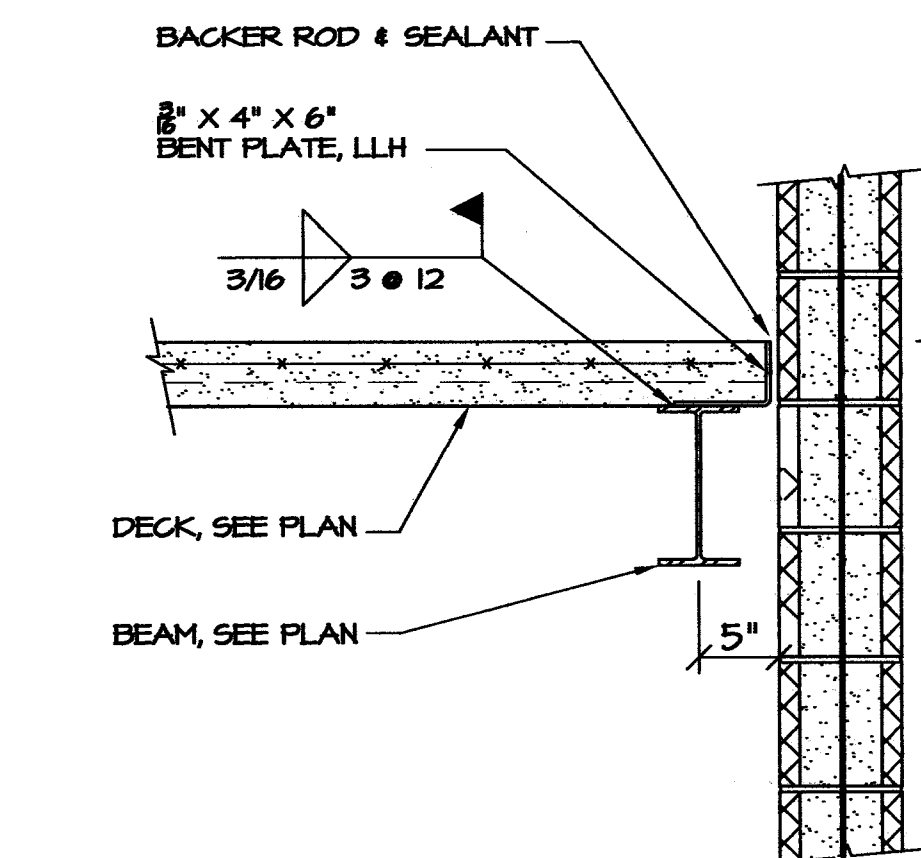
5 LINTEL LOCATIONS
SCALE: 1/8" = 1'-0"



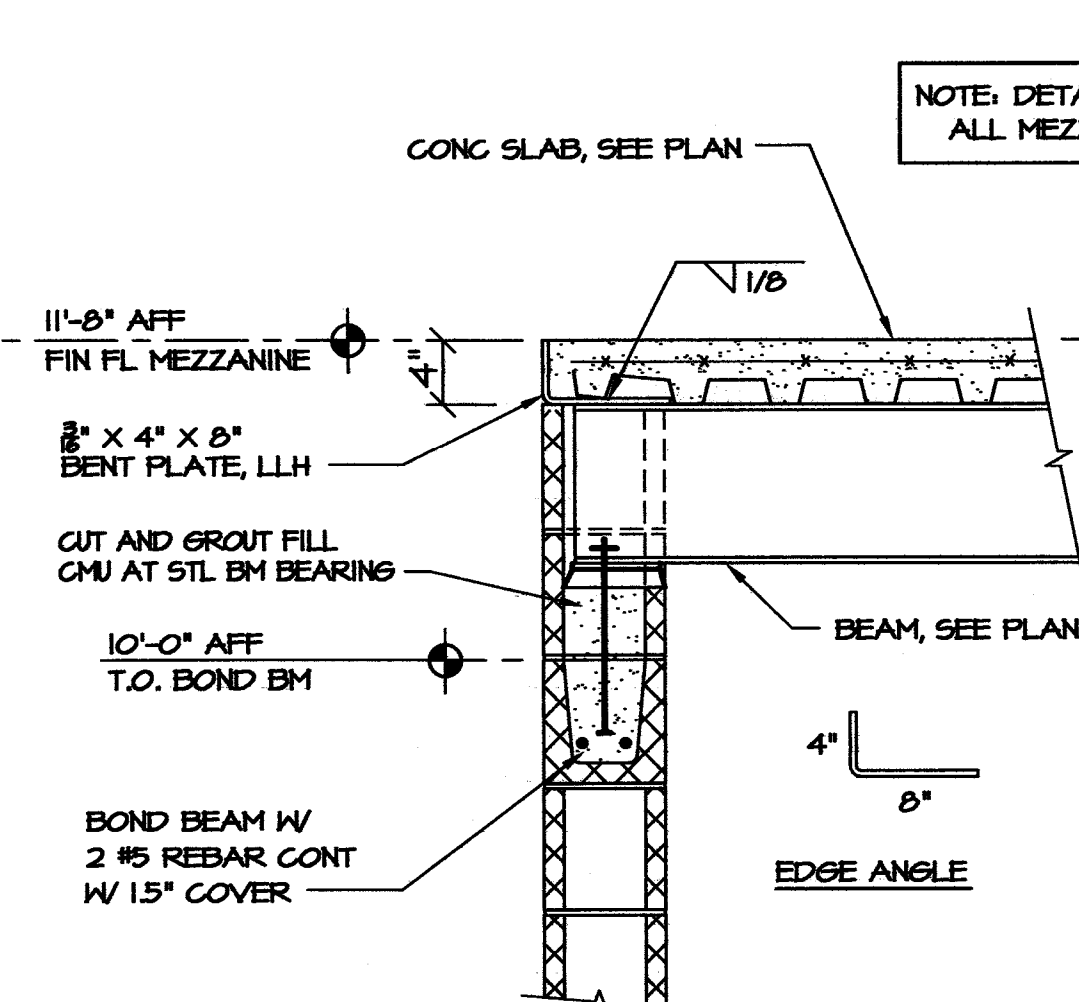
7 MEZZ BEAM BEARING
SCALE: 3/4" = 1'-0"



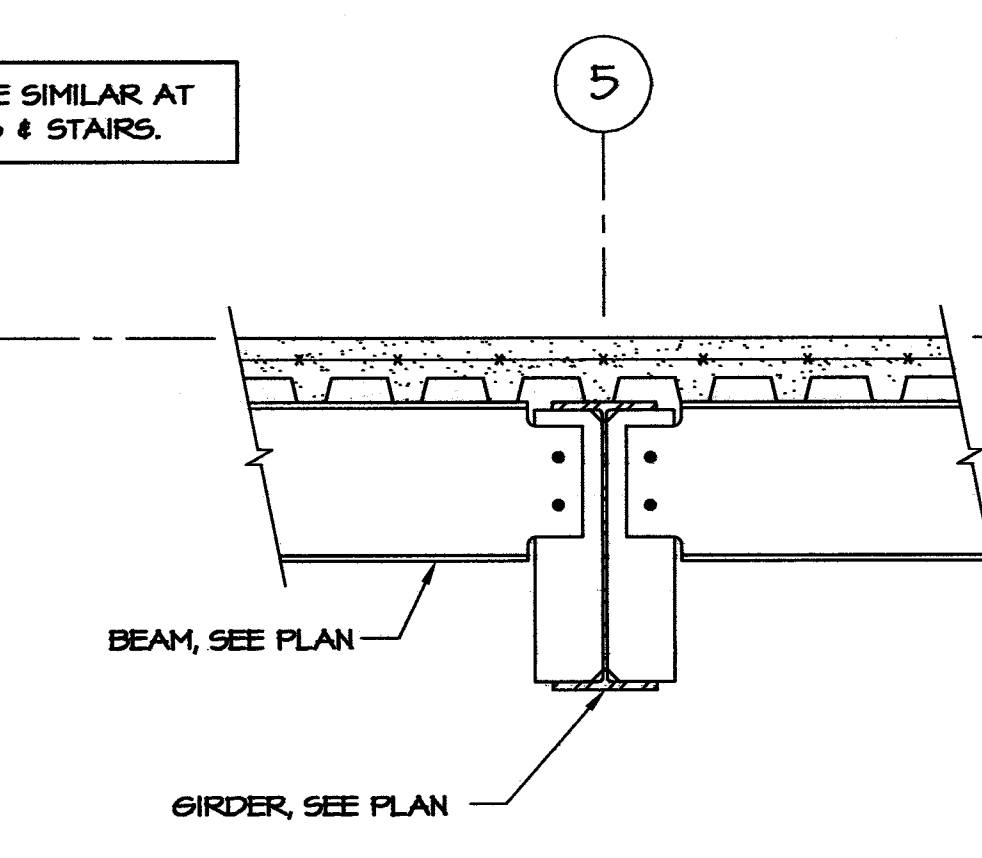
6 MEZZANINE FRAMING
SCALE: 1/8" = 1'-0"



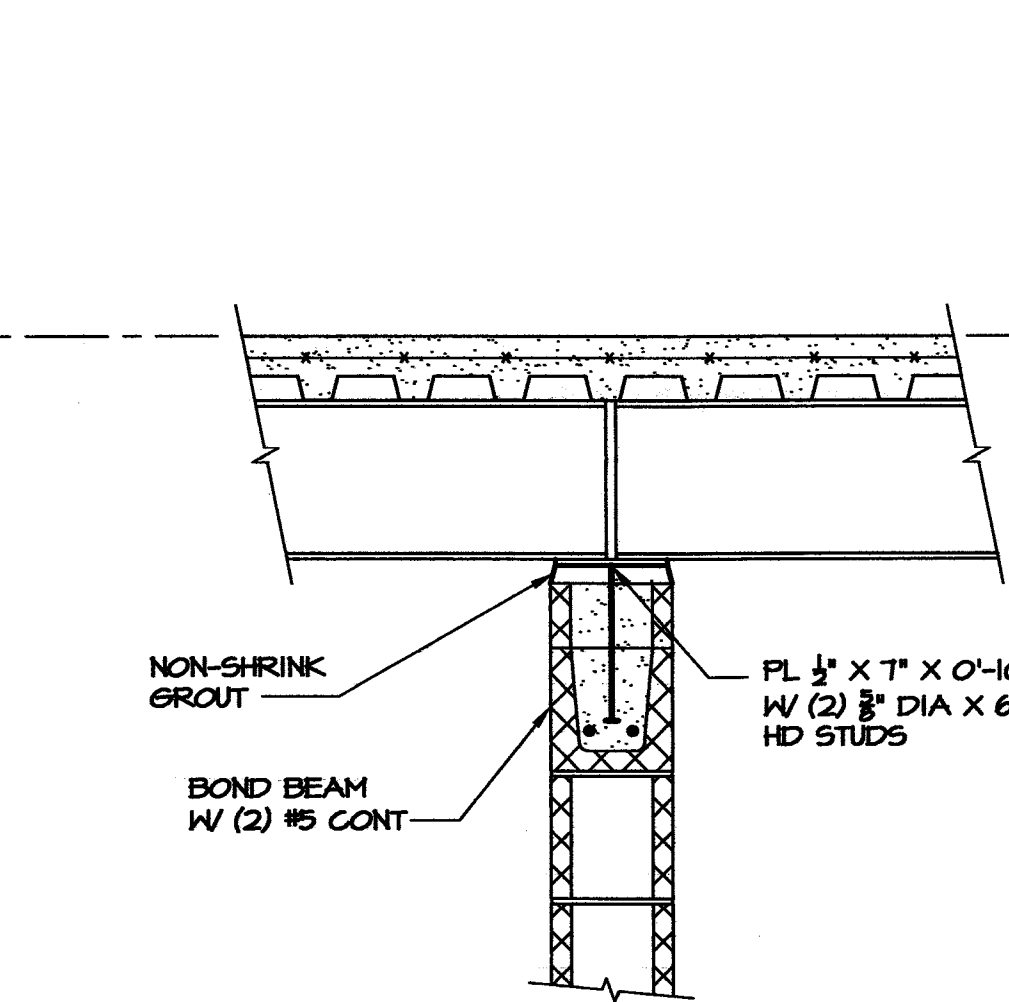
1 MEZZ AT EXT WALL
S4 SCALE: 1" = 1'-0"



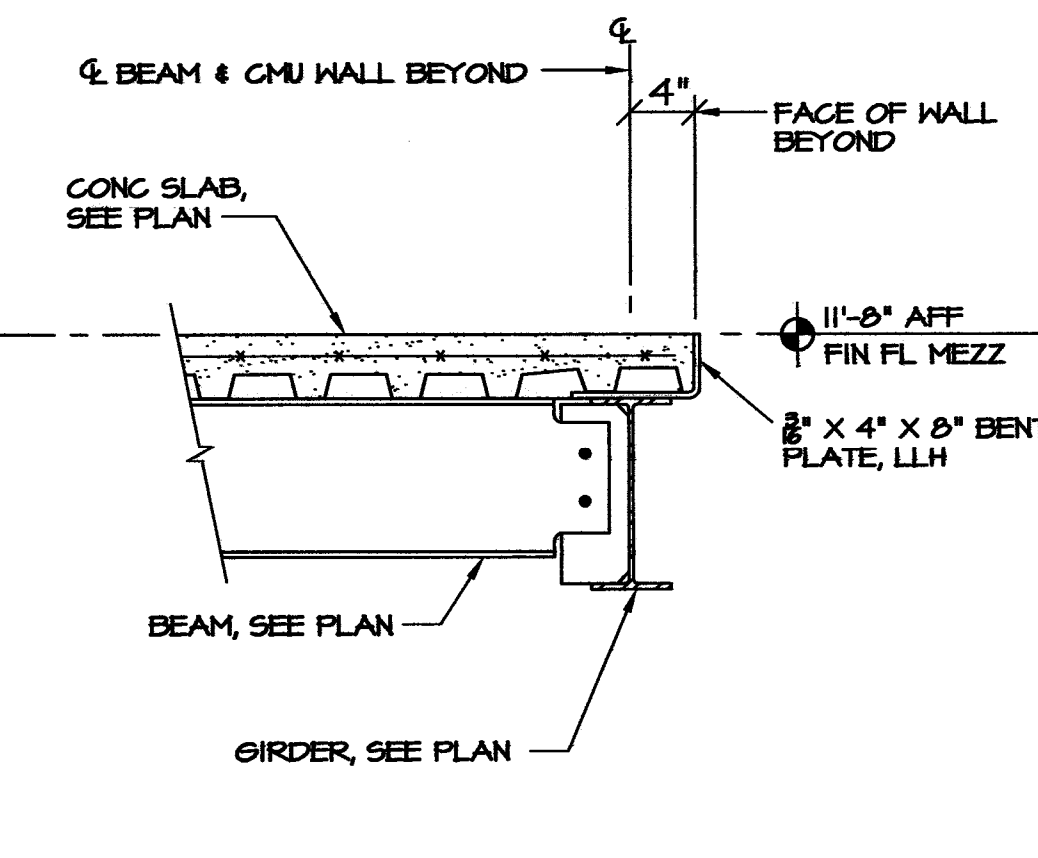
2 MEZZ AT EDGE WALL
S4 SCALE: 1" = 1'-0"



3 MEZZ AT INT BEAM
S4 SCALE: 1" = 1'-0"

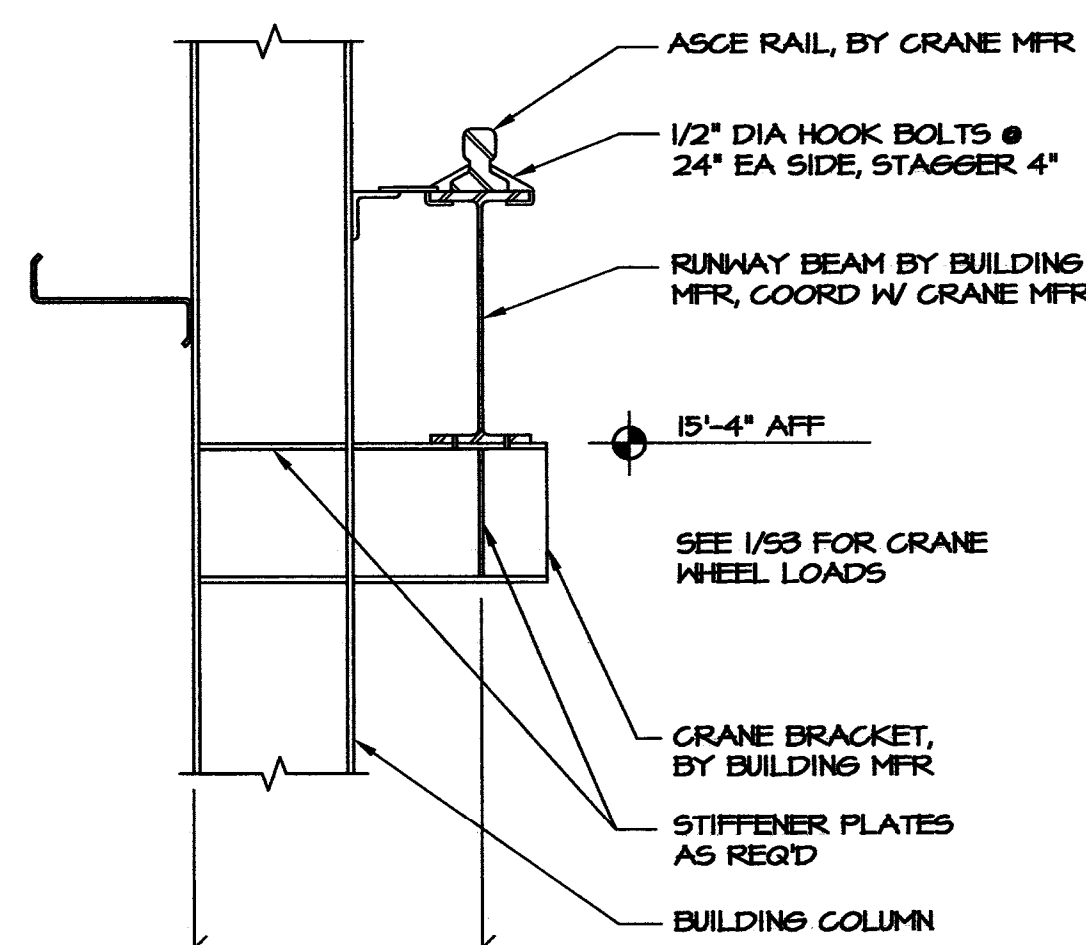


4 MEZZ AT INT WALL
S4 SCALE: 1" = 1'-0"

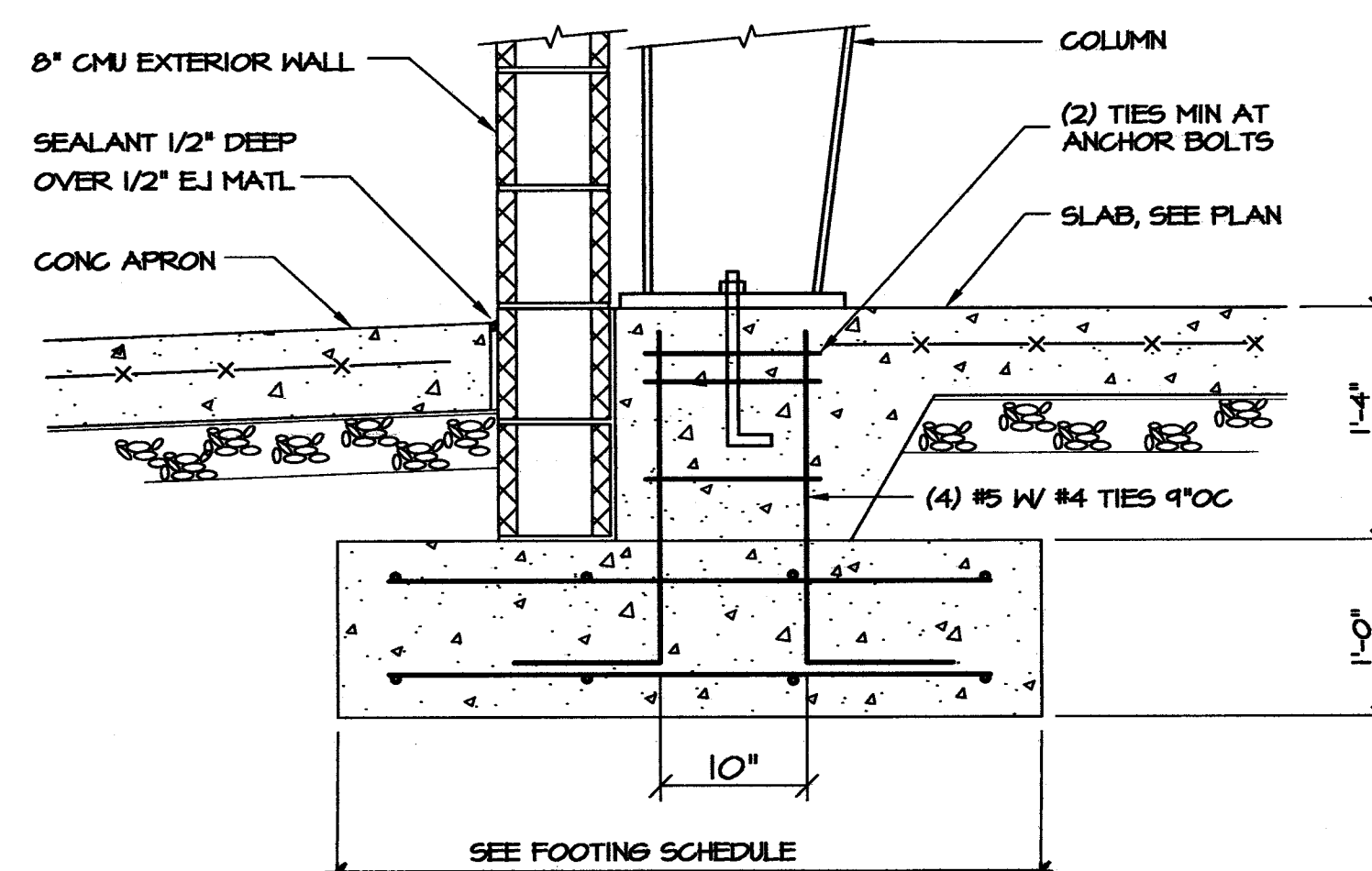


5 MEZZ AT EDGE BEAM
S4 SCALE: 1" = 1'-0"

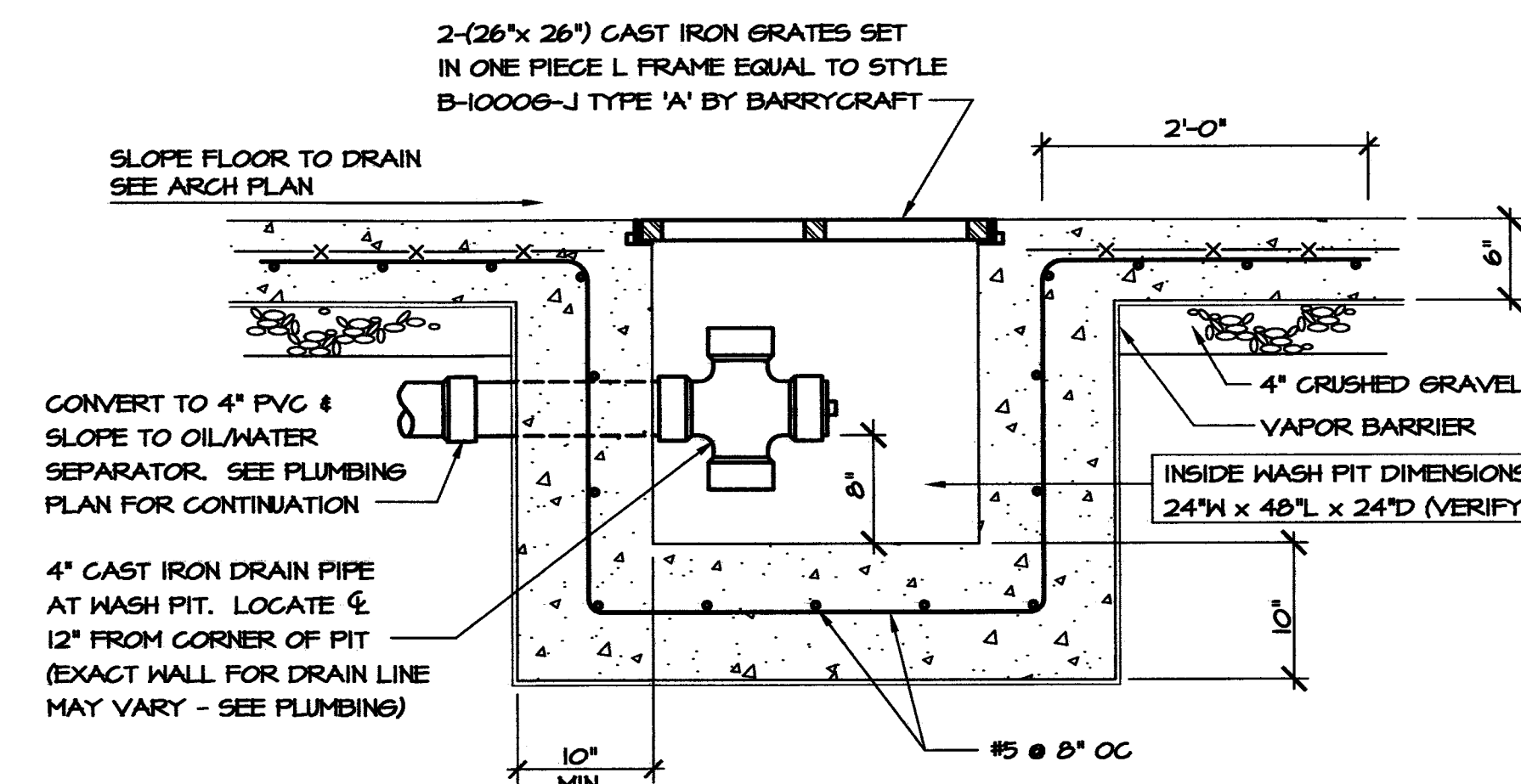
SEE ARCH FOR EAVE & FRAME HEIGHTS, VERIFY ADEQUATE CLEARANCE ABOVE RAIL FOR CRANE W/ CRANE MFR, COORD W/ OVERHEAD DOOR TRACK



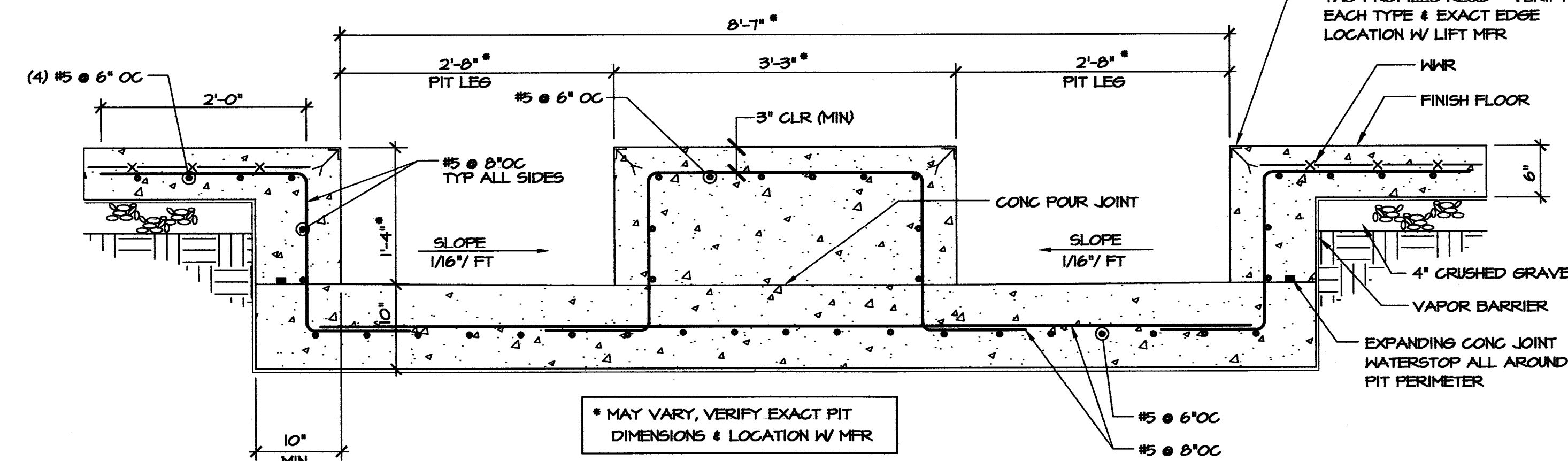
6 CRANE RAIL DETAILS
S4 SCALE: 1" = 1'-0"



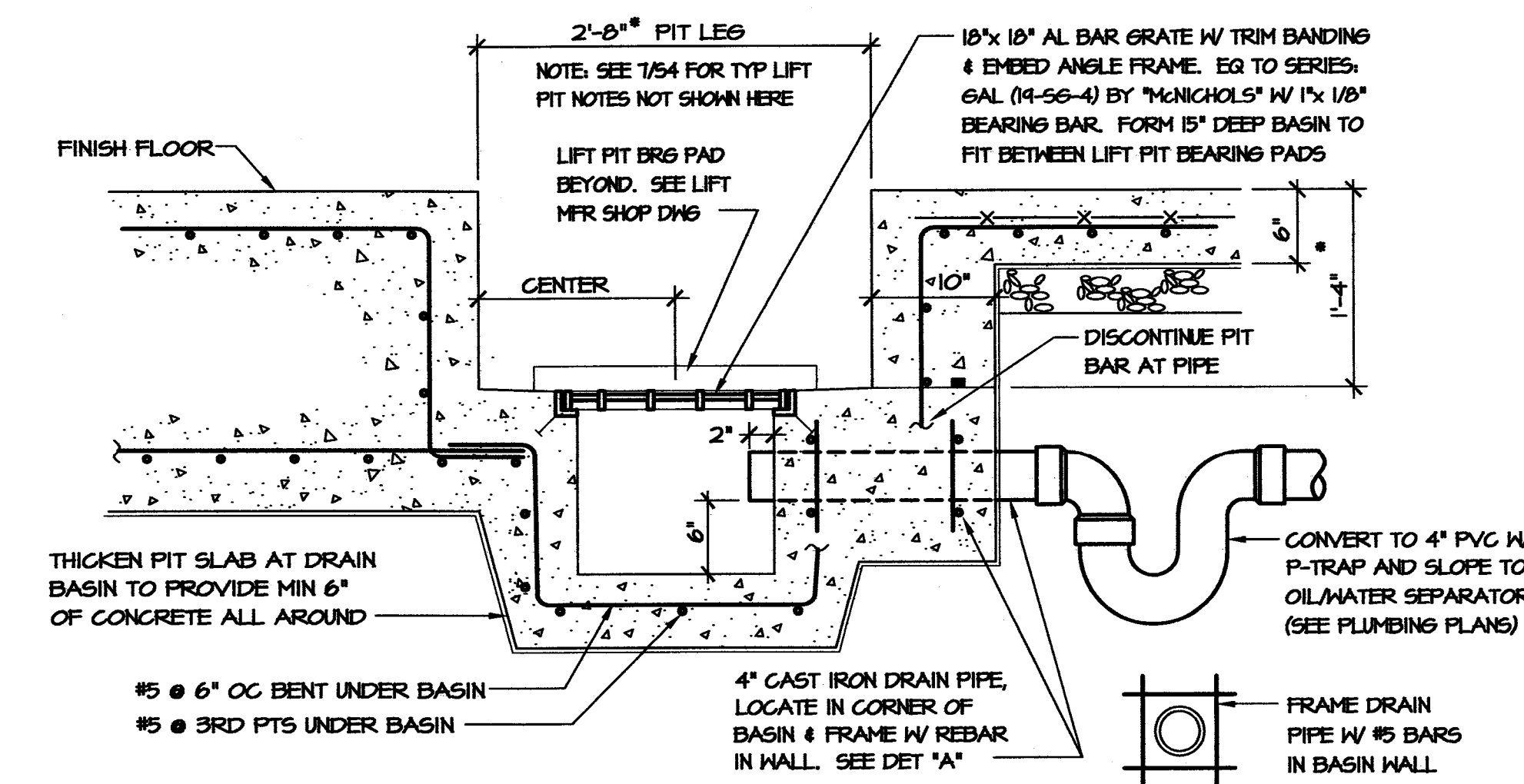
7 TYPICAL FOOTING AT COLUMN
S4 SCALE: 1" = 1'-0"



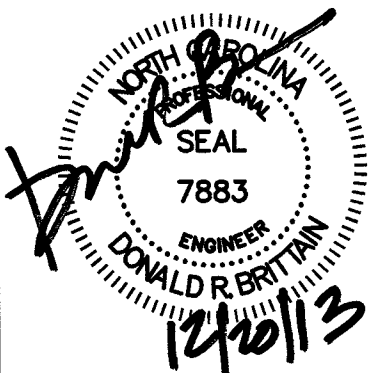
8 WASH PIT SECTION
S4 SCALE: 1" = 1'-0"



9 LIFT PIT SECTION
S4 SCALE: 1" = 1'-0"



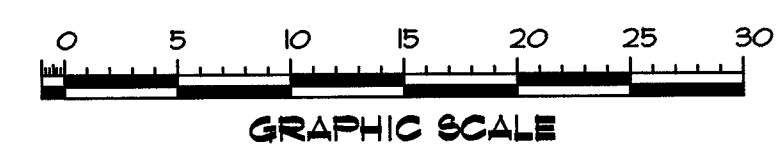
10 LIFT PIT DRAIN BASIN
S4 SCALE: 1" = 1'-0"



REVISED : 12-20-2013
REVISED : _____
REVISED : _____

DRAWN : DRB
CHECKED: DRB
COMM. : 1308
SCO ID# : 12-09354-02A
DATE : 09-09-2013

P 1 OF 5



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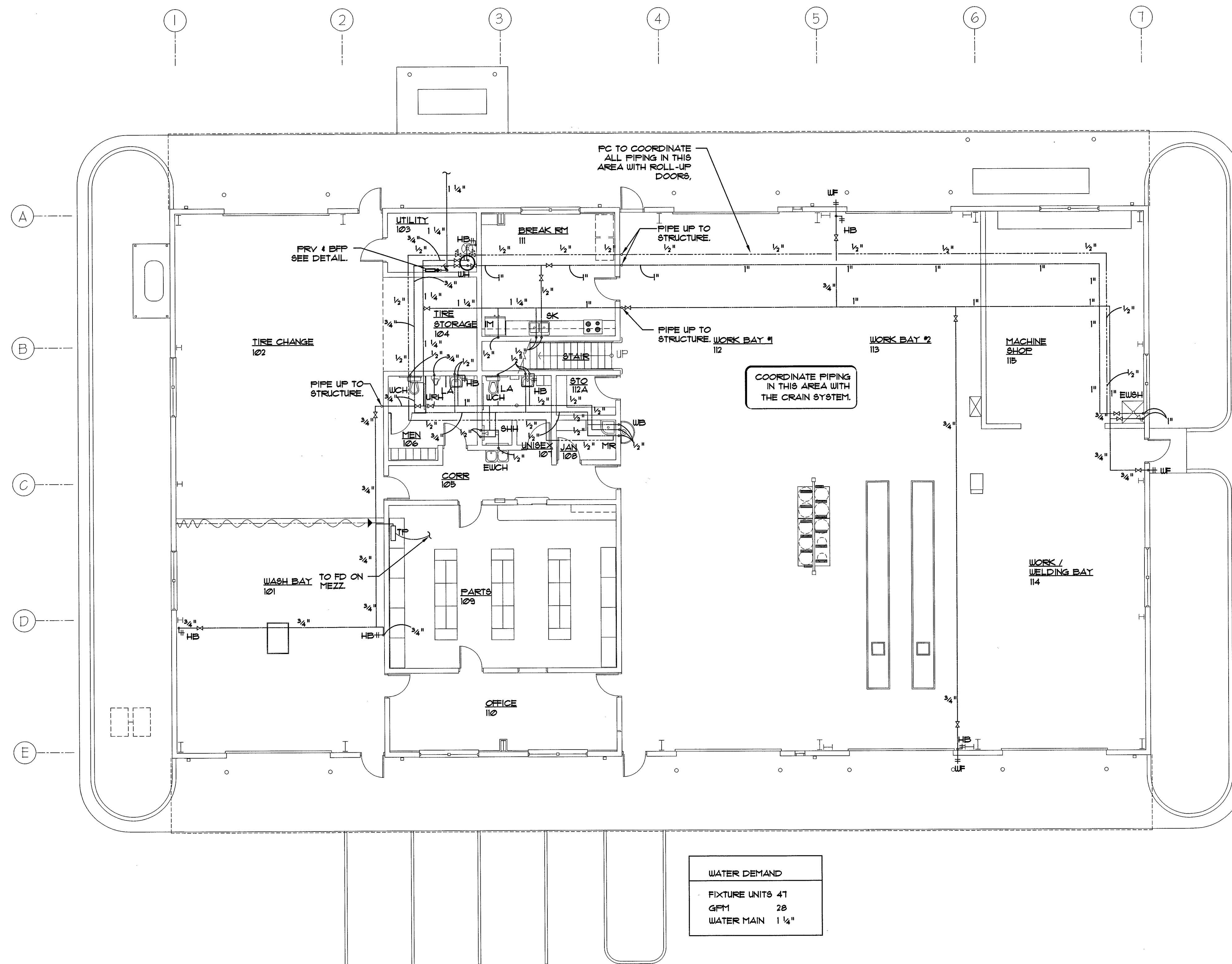
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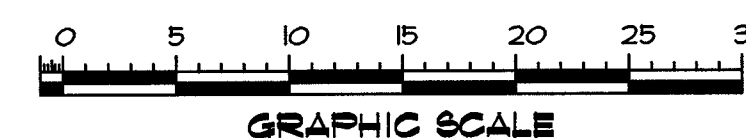
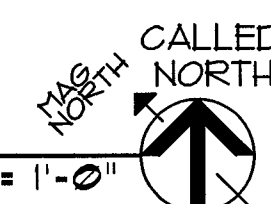
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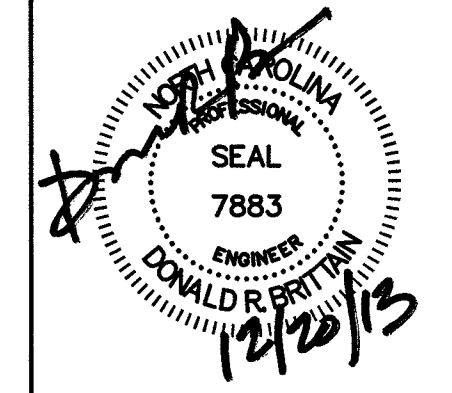
P2 OF 5



FLOOR PLAN - WATER

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





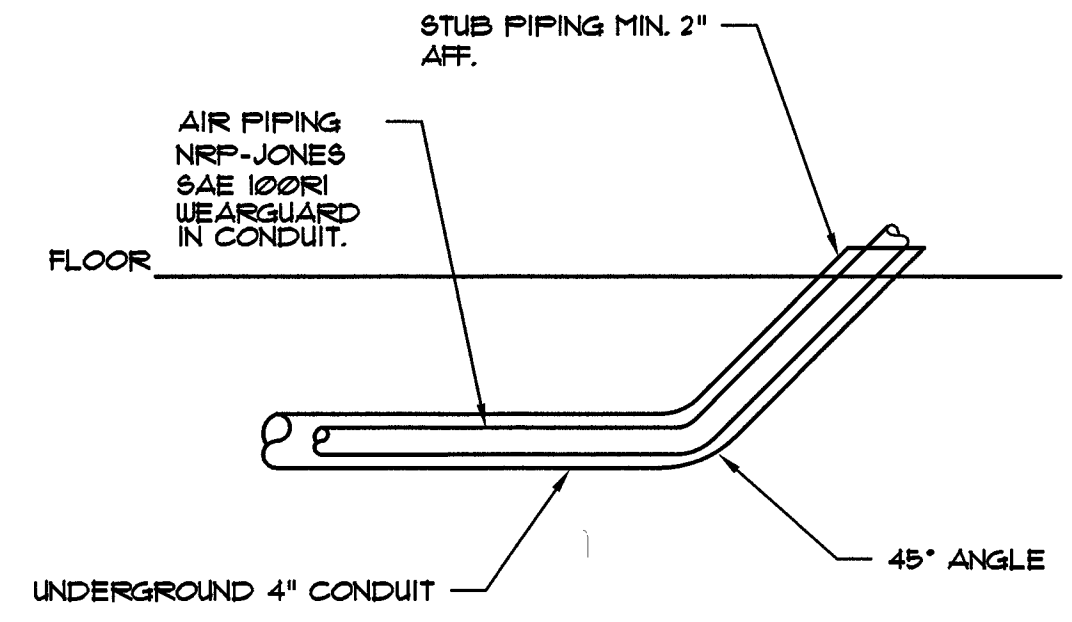
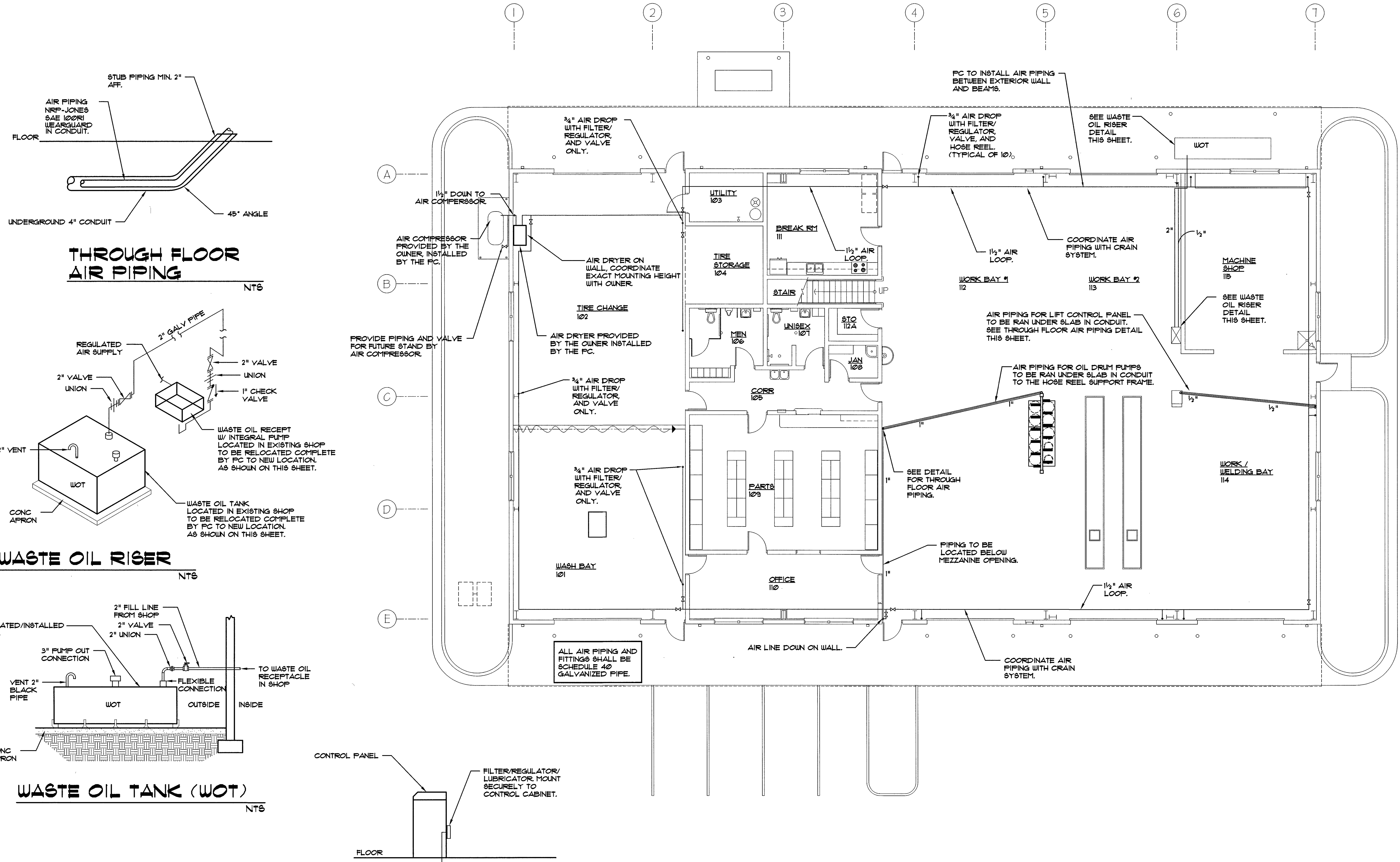
DOBSON EQUIPMENT SHOP
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SURRY COUNTY * NORTH CAROLINA

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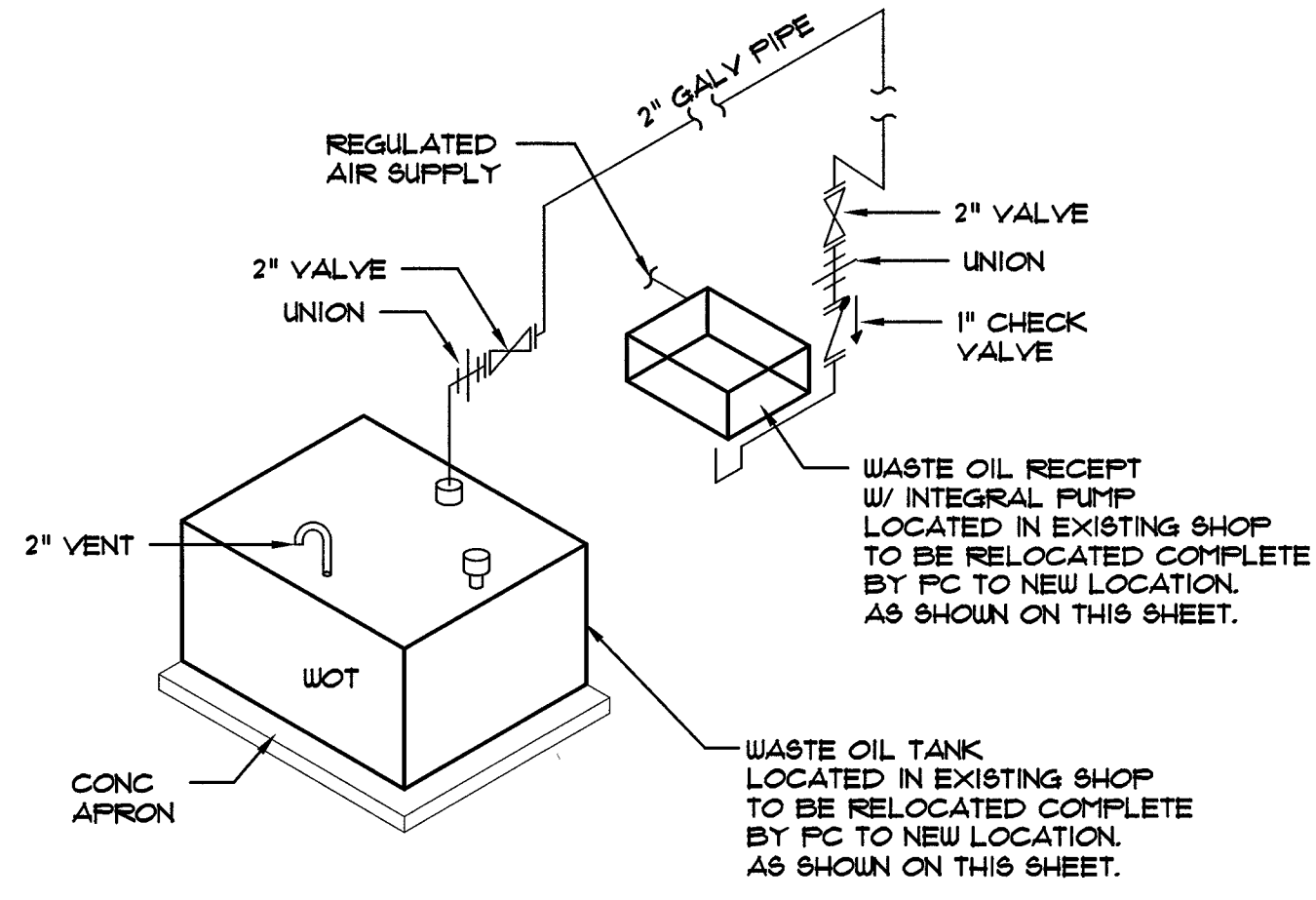
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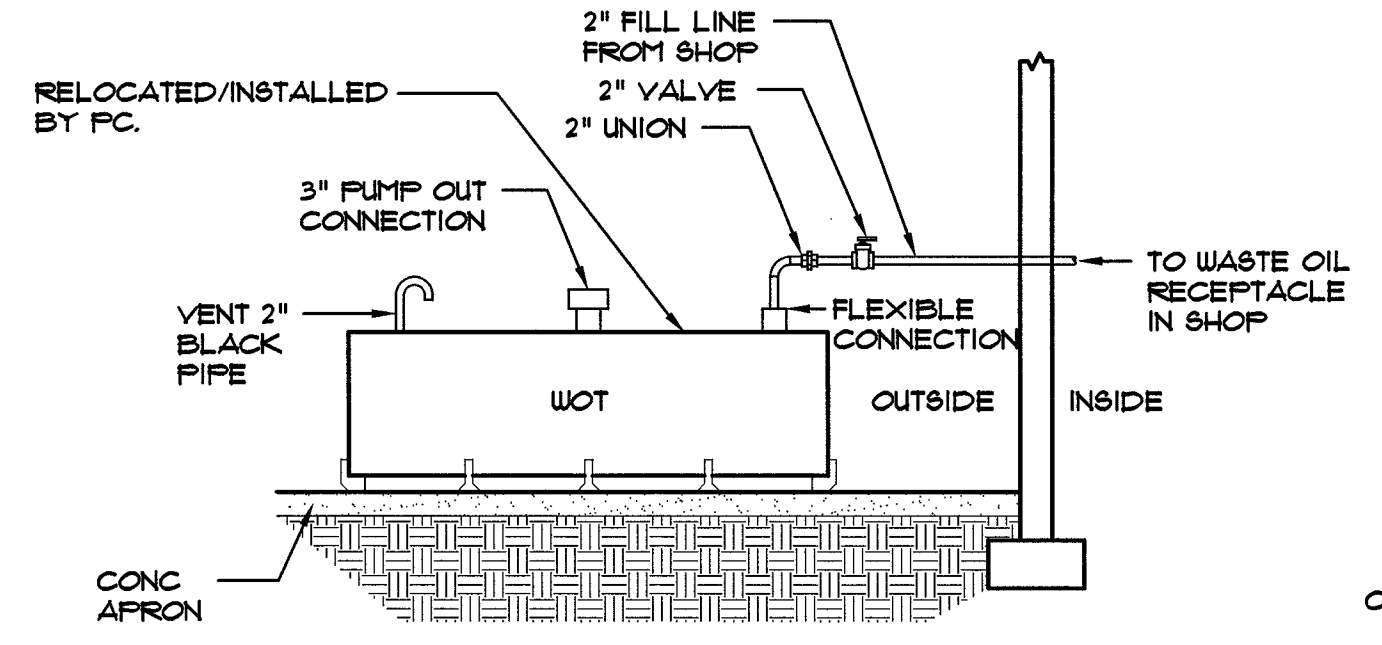
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SCO ID# : 12-0394-02A
DATE : 04-04-2013



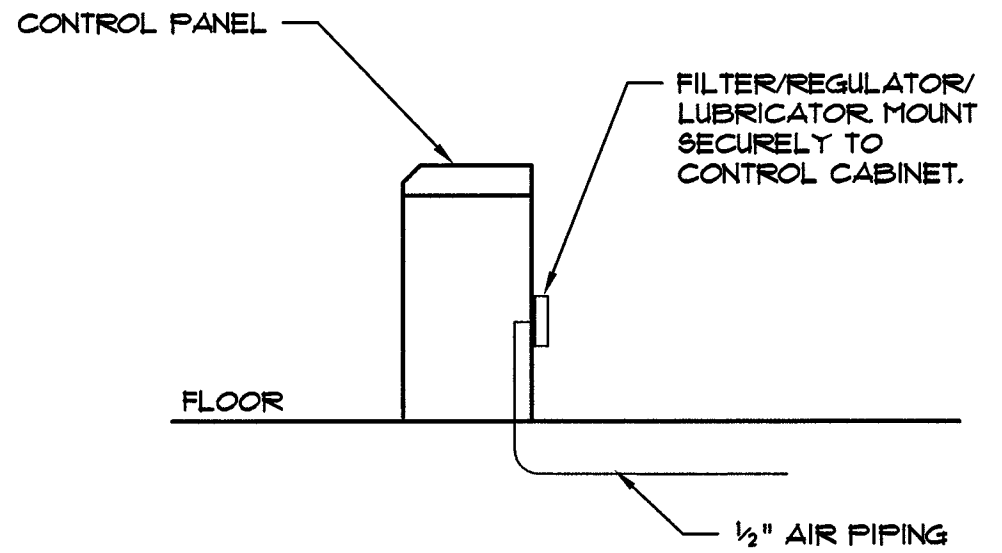
THROUGH FLOOR AIR PIPING
NTS



WASTE OIL RISER
NTS



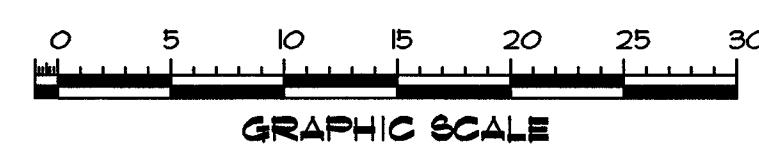
WASTE OIL TANK (WOT)
NTS



LIFT CONTROL PANEL AIR PIPING
NTS

FLOOR PLAN - AIR PIPING

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



040312DRB139800

BRITTAIN ENGINEERING, INC.
CONSULTING MECHANICAL AND ELECTRICAL ENGINEERS
PO BOX 838 HICKORY, NC 28603
TEL: (703) 538-1813 FAX: (703) 538-1814

PLUMBING FIXTURE SCHEDULE

NOTE: ALL FIXTURE AFFURTENANCES SHALL BE SUPPLIED BY FIXTURE MANUFACTURER.

FIXTURE SYMBOL	FIXTURE TYPE	FIXTURE DESCRIPTION	CONNECTION SIZES			
			W	V	CW	HW
WCH	WATER CLOSET (HANDICAPPED)	KOHLER K-3611 "HIGHLINE"/BENEKE 523-88 EXTRA HEAVY DUTY SOLID PLASTIC ELONGATED OPEN FRONTSEAT/ KOHLER K-1606 SUPPLY WITH WHEEL HANDLE STOP.	4"	2"	1/2"	
LA	WALL MOUNTED LAVATORY	KOHLER K-2849/DELTA 523-UF HGMHDF FAUCET AND PERFORATED DRAIN KOHLER K-1601, 3/8" WITH WHEEL OPERATED VALVE/MCGUIRE 19812-C-F "P" TRAP MATCHING ZURN CONCEALED FLOOR MOUNTED CARRIER TRUEBRO WASTE AND WATER GUARD 102, MOUNT RIM 34" AFF.	2"	1 1/2"	1/2"	1/2"
URH	URINAL HANDICAP	KOHLER K-4960-ET "BARDON" WITH 3/4" TOP SPUD/SLOAN REGAL 186-03-XL-YK FLUSH VALVE/SCREWDRIWER OPERATED ANGLE STOP/ VACUUM BREAKER AND CAST BRASS WALL ESCUTCHEON WITH SET SCREW/ZURN MATCHING CONCEALED FLOOR-MOUNTED CARRIER, MOUNT RIM 11" AFF. MAX	2"	1 1/2"	3/4"	
SK	2- COMP. SINK HANDI-CAPPED	JUST LTC-ADA-2193-AGR-3-R-MOD, 21" X 33" LEDGE TYPE, 18 GAUGE 304 STAINLESS STEEL SINK WITH LEFT BOWL 4 1/2" DEEP AND RIGHT BOWL 1 1/2" DEEP. DELTA 26C314 FAUCET WITH WRIST BLADES AND AERATOR. JUST J35 STAINLESS CRUMB STRAINER WITH REMOVEABLE BASKET WITH RUBBER SEAT STOPPER AND 1 1/2" STAINLESS TAILPIECE WITH CENTER REAR WASTE OUTLET. KOHLER 1601 3/8" FLEXIBLE LAVATORY SUPPLY UNIT WITH WHEEL OPERATED ANGLE VALVE AND CAST BRASS WALL ESCUTCHEON AND SET SCREW. MCGUIRE 193C21G1 1-1/2" CENTER OUTLET 21" CENTERS 11 GA. CONTINUOUS WASTE CAST BRASS. MCGUIRE 19312C-F, 1 1/2" ADJUSTABLE SEMI-CAST BRASS "P" TRAP WITH INTEGRAL THREAD CLEANOUT PLUG, OUTLET TO WALL AND CAST BRASS ESCUTCHEON. DISPOSER IN-SINK-ERATOR MODEL 333/88, 1/2 HP SPLIT PHASE MOTOR IN RIGHT BOWL.	2"	1 1/2"	1/2"	1/2"
SHH	SHOWER HANDICAP	THE SHOWER SHALL BE TILED WITH A JOSAM 93000-6A-92 SERIES CAST IRON FLOOR DRAIN WITH GALVANIZED INTERIOR AND TYPE "B" 6" STRAINER. SYMMONS-1-9229-F8B "HYDAPIPE" SHOWER VALVE.	2"	2"	1/2"	1/2"
MR	MOP RECEPTOR	FIAT 178CB-1610 "TERRAZZO" 24" X 24" X 12" MOP SERVICE SINK WITH INTEGRAL CAST BRASS DRAIN/ 19350-AA FITTING/BUCKET HOOK 3/4" HOSE THREAD END/VACUUM BREAKER AND ADJUSTABLE TOP BRACE/1989-CC MOP HANGER AND 1932-AA HOSE AND WALL HOOK AND MODEL E-88-AA BUMPERGUARD.	3"	2"	1/2"	1/2"
IM	ICEMAKER VALVE BOX	FURNISH AND INSTALL 4" TO 6" SQUARE PVC VALVE BOX WITH CHROME PLATED BRASS STOP VALVE IN WALL FOR ICEMAKER IN REFRIGERATOR			1/2"	
WF	WALL FAUCET	WOODFORD MODEL 65 FREEZELESS WALL HYDRANT/VACUUM BREAKER BACKFLOW PREVENTER, MOUNT 24" AF. GRADE			3/4"	
HB	HOSE BIBB	WOODFORD MODEL 24P-1/2 WALL FAUCET WITH WHEEL HANDLE AND VACUUM BREAKER BACKFLOW PREVENTER, MOUNT 18" AFF.			1/2"	
WH	WATER HEATER	LOCHINVAR MODEL 1LTJ080KK, 80 GALLON ELECTRIC WATER HEATER WITH TWO (2) 4500 WATT ELEMENTS, 208 VOLT, SINGLE PHASE, NON-SIMULTANEOUS WIRING WITH 3 YEAR WARRANTY. FURNISH WITH ASME APPROVED RELIEF VALVE & PROPER SIZED EXPANSION TANK SET TEMPERATURE AT 110°F.			3/4"	3/4"
RCP	RECIRCULATION PUMP	BELL & GOSSETT MODEL PL-30 ALL BRONZE PUMP, 1/2 HP, 17, 115V, 10 GPM @ 10' HD. 3/4" FLANGED CONNECTIONS.			1/2"	
EUCH	ELECTRIC WATER COOLER HANDICAP	OASIS 18AC8L WALL HUNG BI-LEVEL ELECTRIC WATER COOLER, 80 GPH, 1/4 HP, 115V, 460W, ROUGH STOP SUPPLY, STAINLESS STEEL FINISH & CABINET, C.P.B. "P" TRAP, MOUNT RIM 40" AFF.	2"	1 1/2"	1/2"	
FD	FLOOR DRAIN	JOSAM 93000-6A-92 SERIES CAST IRON FLOOR DRAIN WITH GALVANIZED INTERIOR AND TYPE "B" 6" STRAINER.	4"	2"		
WB	WASH BASIN	WILLOUGHBY INDUSTRIES MODEL WAF-3603-ELI-58 WITH SYMMONS 5-120CK MIXING VALVE.	2"	2"	1/2"	1/2"
EEUS	EMERGENCY EYE WASH SHOWER	GUARDIAN 61850P-TMY EMERGENCY EYE WASH SHOWER WITH GUARDIAN 3800 THERMOSTATIC MIXING VALVE. SET TEMPERATURE AT 80°F	3"	2"	1/2"	1/2"

ACCEPTABLE MANUFACTURERS:

WATER CLOSETS, URINALS, LAVATORIES: KOHLER, AMERICAN STANDARD, ELJER, CRANE, TOTO, ZURN ONE. CARRIERS - WADE, SMITH, ZURN, MIFAB.

SINKS - KOHLER, AMERICAN STANDARD, JUST, ELKAY, AMERICAN STANDARD, ZURN, CECO. SHOWER VALVE ASSEMBLIES - SYMMONS, T45, LEONARD, POWERS, AMERICAN STANDARD.

WATER HEATERS - STATE, BOCK, LOCHINVAR, BRADFORD WHITE, A.O. SMITH, RHEEM.

HOSE BIBBS - ZURN, WOODFORD, NIBCO.

WALL FAUCETS - WOODFORD, ZURN, WADE, SMITH, MIFAB.

FLOOR DRAINS, ROOF DRAINS, FLOOR SINKS - WADE, SMITH, ZURN, JOSAM, SIOUX CHIEF.

MOP RECEPTOR - FIAT, FLORSTONE, WILLIAMS, AMERICAN STANDARD.

RECIRCULATION PUMP - BELL & GOSSETT, TACO, GRUNDPOS

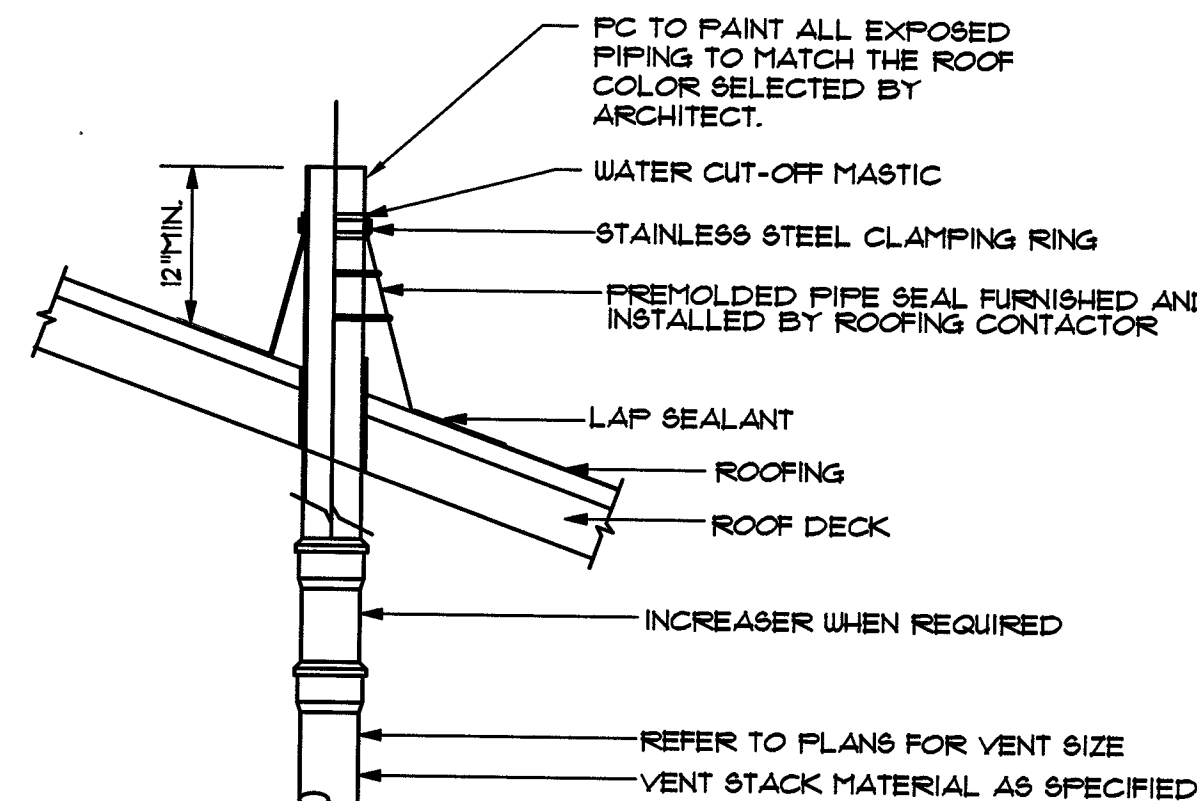
FAUCETS - DELTA, SYMMONS, T45, AMERICAN STANDARD, MOEN.

WATER COOLERS - ELKAY, OASIS, HALSEY TAYLOR, ACORN AQUA.

FLUSH VALVES - DELANTY, SLOAN, ZURN, HYDROTEK.

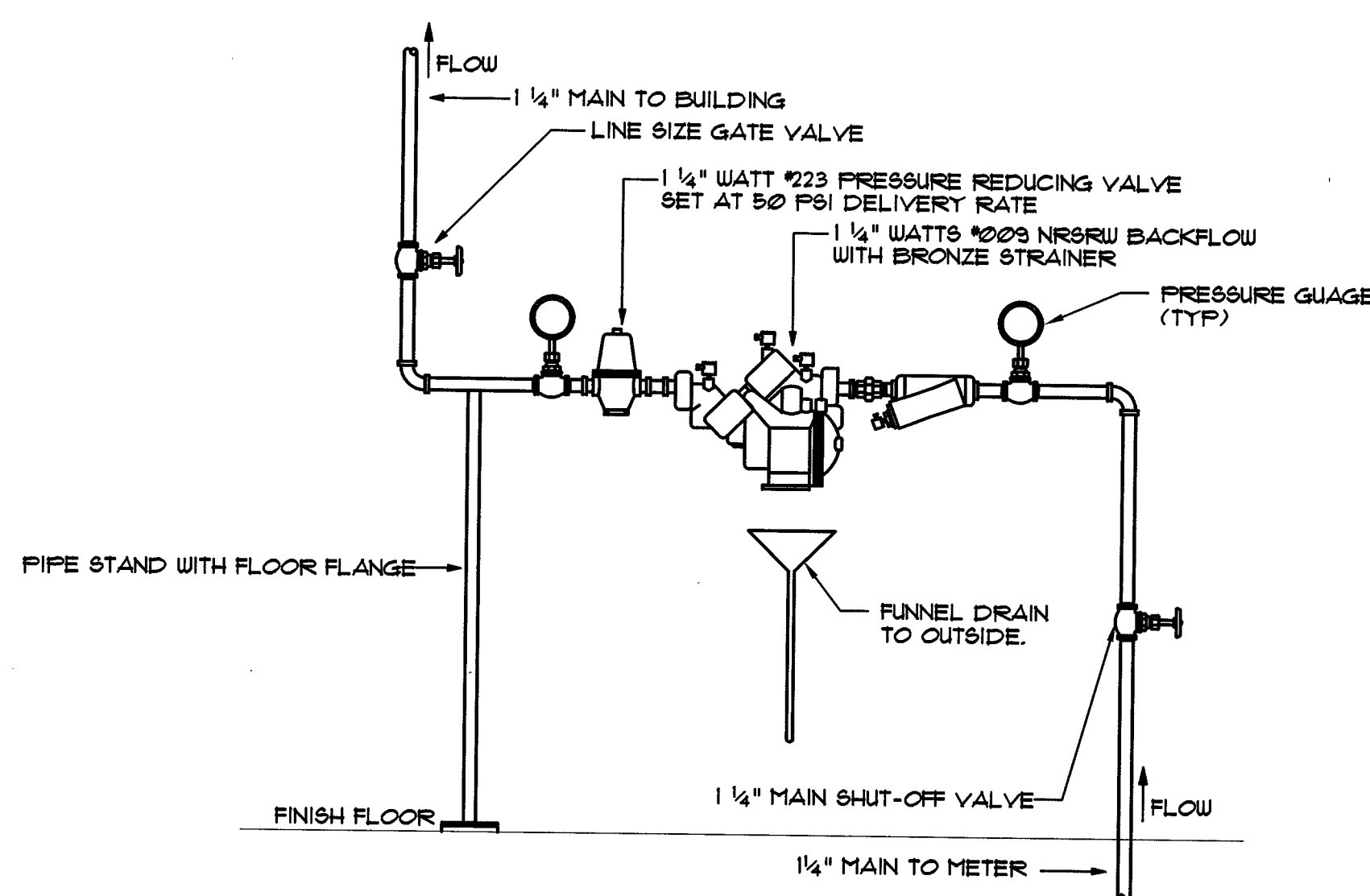
PLUMBING LEGEND

SYMBOL	DESCRIPTION
---	SANITARY WASTE
----	SANITARY VENT
----	DOMESTIC COLD WATER
----	DOMESTIC HOT WATER
----	DOMESTIC HOT WATER RECIRC.
⊥	SHUT-OFF VALVE
⊥	COMBINATION FLOW CONTROL/ BALL VALVE
⊥	CUT-OFF VALVE IN RISER
⊥	RISER UP AND RISER DOWN
⊥	CLEANOUT (CO)
⊥	HOSE BIBB (HB) OR WALL HYDRANT (WF)
VTR	VENT THRU ROOF
EA	SHOCK ABSORBER "WATER HAMMER"
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR

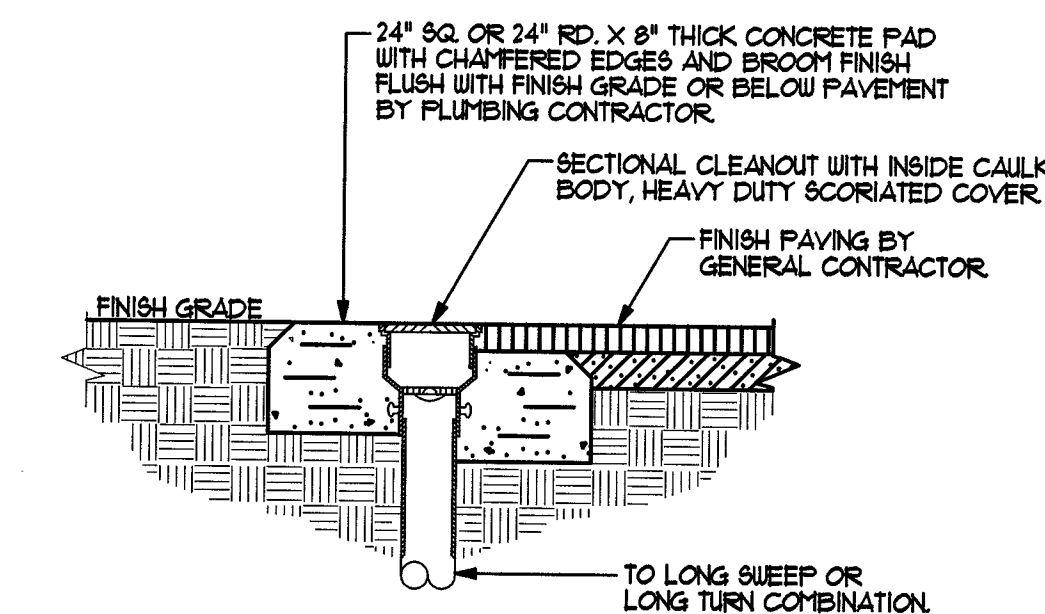


PLUMBING VENT PENETRATION SHALL COMPLY WITH SECTION 904.1 OF THE NCP. PROVIDE SUPPORTS PER NCP.

VENT THRU THE ROOF SCALE: NONE

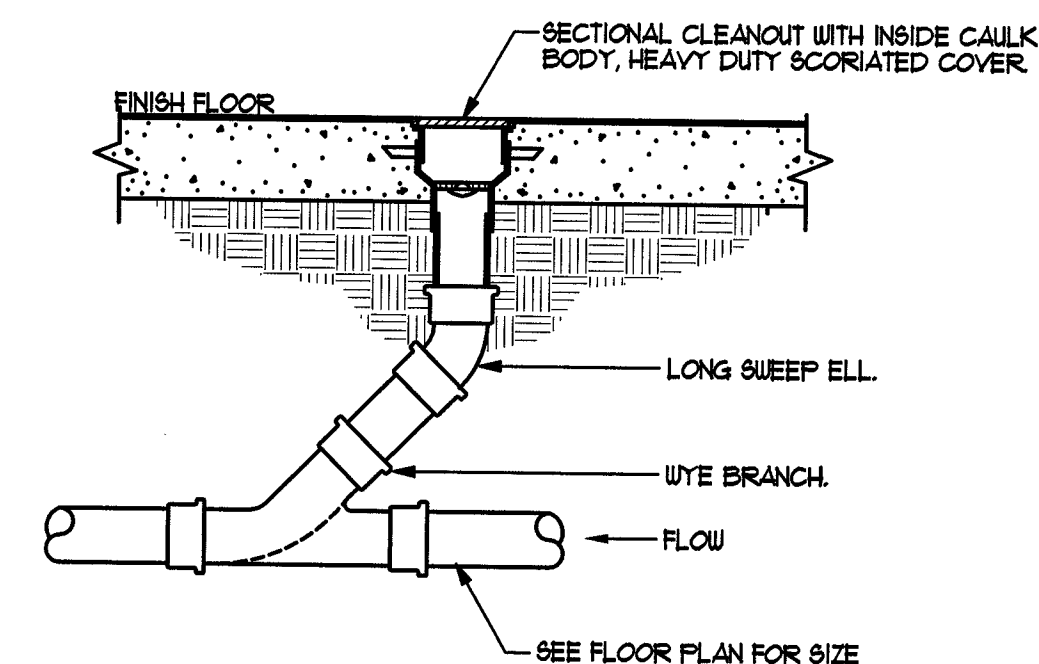


WATER PRESSURE REDUCING VALVE AND BACKFLOW PREVENTER STATION SCALE: NONE

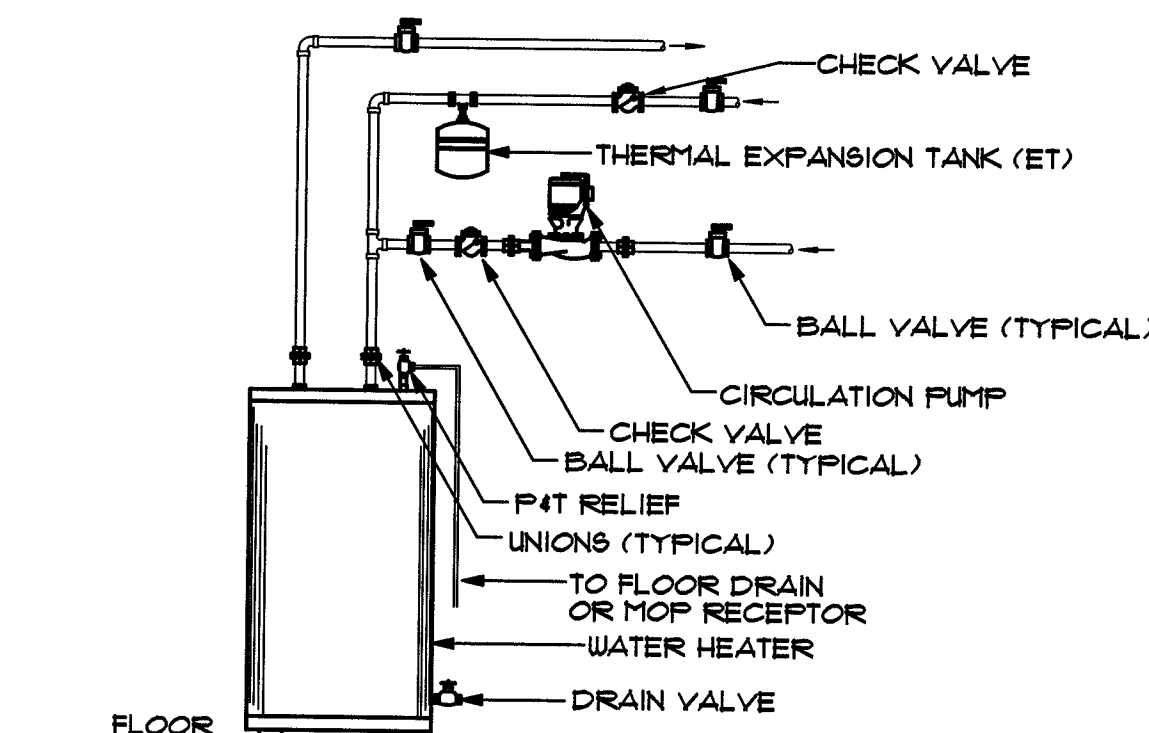


NOTE: ONIT CONCRETE PAD IF C.O. IS SET IN CONC. SURFACE PROVIDED BY GENERAL CONTRACTOR.

CLEANOUT AT FINISH GRADE SCALE: NONE

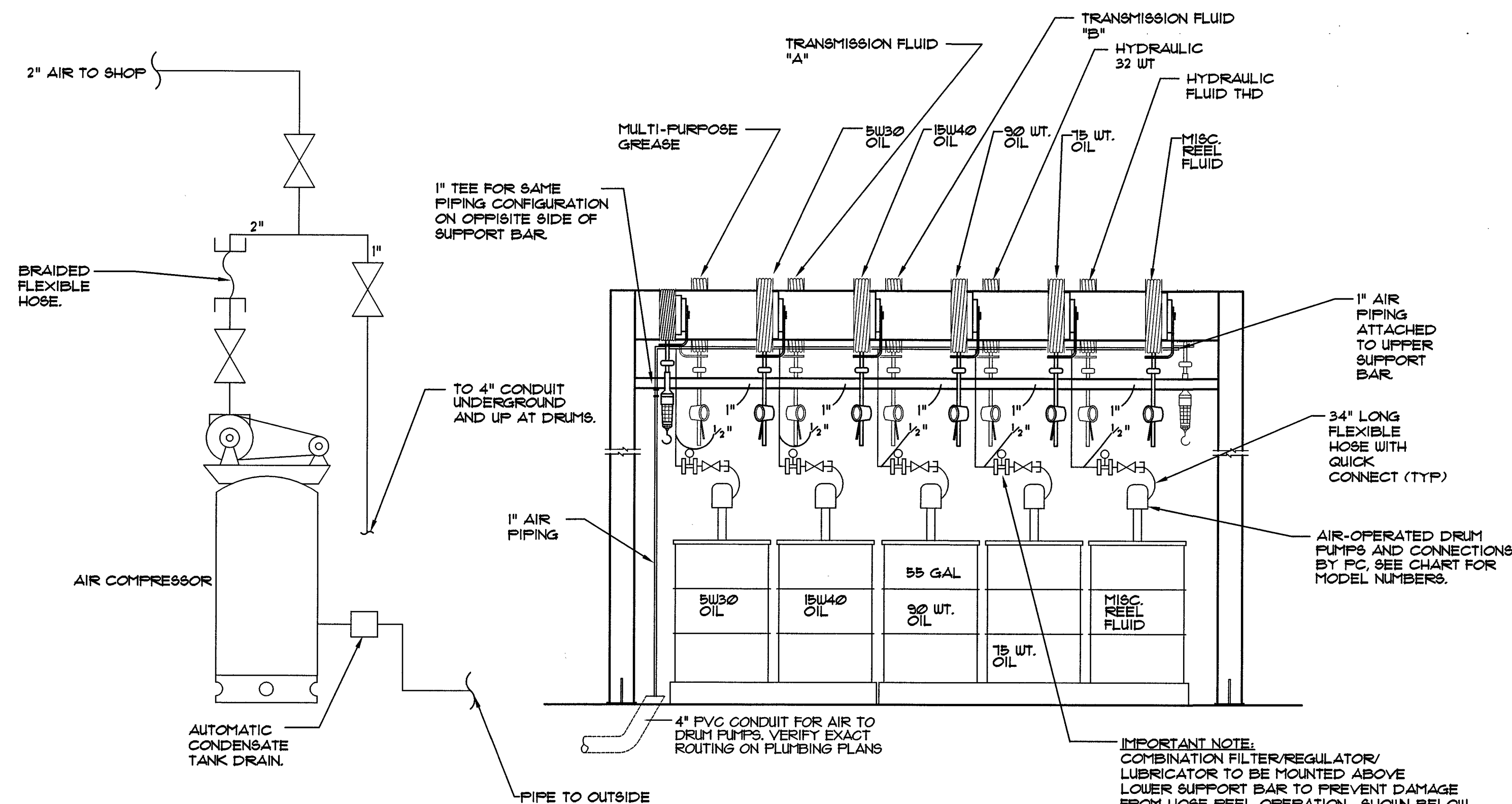


CLEANOUT AT FINISH FLOOR SCALE: NONE



NOTE: PROVIDE TIME SWITCH FOR RECIRCULATING PUMP PER SECTION 504.6 OF NC ENERGY CONSERVATION CODE.

ELECTRIC WATER HEATER SCALE: NONE



SEE SHEET A2 FOR
ADDITIONAL ELEVATIONS AND
DIMENSIONS.

COMPRESSED AIR SCHEMATIC

NTS

FLUID	PUMP MODEL	REEL MODEL	DISPENSER MODEL
5W/30	GRACO PACKAGE MODEL 225640	GRACO MODEL H8M165B	GRACO MODEL 256556
15W/40	GRACO PACKAGE MODEL 225640	GRACO MODEL H8M165B	GRACO MODEL 256556
75 WT.	GRACO PACKAGE MODEL 225034	GRACO MODEL H8M165B	GRACO MODEL 256781
30 WT.	GRACO PACKAGE MODEL 225034	GRACO MODEL H8M165B	GRACO MODEL 256781
HYDRAULIC FLUID	GRACO PACKAGE MODEL 225034	GRACO MODEL H8M165B	GRACO MODEL 256786
TRANSMISSION FLUID	GRACO PACKAGE MODEL 225034	GRACO MODEL H8M165B	GRACO MODEL 256786
MULTI PURPOSE GREASE	GRACO PACKAGE MODEL 223128	GRACO MODEL H8H55B	GRACO MODEL 242058

NOTE: ALL PUMP PACKAGES REQUIRE 1/2" IN AIR REGULATOR/GAUGE MODES 244844

SPECIFICATIONS (OCT-15)

1. 1/2" CONNECTION.
2. OIL STORAGE CAPACITY: 90 GALLONS.
3. UNIT WEIGHT W/STD. COVERS: 95 POUNDS.
4. MAXIMUM OPERATING TEMPERATURE 150°F.

NOTES

1. FOR GRAVITY DRAINAGE APPLICATIONS ONLY. DO NOT USE FOR PRESSURE APPLICATIONS.
2. 1/2" THICK HIGH DENSITY POLYETHYLENE WALLS.
3. CUSTOM EXTENSION HEIGHTS AVAILABLE.
4. FOR ON-THE-FLOOR OR BURIED APPLICATIONS.
5. MEDIUM-DUTY COMPOSITE COVER WITH 5/16" STAINLESS STEEL BOLTS. (LOAD CAPACITY 5000 LBS.)

ENGINEER SPECIFICATION GUIDE

TANK SHALL BE LIFETIME GUARANTEED AND MADE IN USA OF SEAMLESS, ROTATIONALLY-MOLDED HIGH DENSITY POLYETHYLENE WITH MINIMUM 1/2" UNIFORM WALL THICKNESS. TANK SHALL ACCEPT OIL DRAU-OFF FROM SCHIER O6 SERIES OIL SEPARATORS, AND BE FURNISHED FOR ABOVE OR BELOW GRADE INSTALLATION. COVER SHALL BE GASKETED AND HAVE MINIMUM 5000 LB LOAD CAPACITY.

OPTIONS TO BE PROVIDED:

- EXT - CUSTOM EXTENSION TO FINISHED FLOOR OR GRADE.
- H20 LOAD RATED SEALED COMPOSITE COVER (AVAILABLE IN BOLTED OR PICKABLE STYLE)

SPECIFICATIONS (08-15)

1. 4" INLET AND OUTLET CONNECTIONS.
2. MAX FLOW RATE: 75 GPM.
3. LIQUID CAPACITY: 125 GALLONS (16 CU. FT.)
4. MAX OIL CAPACITY: 62 GALLONS.
5. UNIT WEIGHT W/STD. COVERS: 102 POUNDS.
6. MAXIMUM OPERATING TEMPERATURE 150°F.

NOTES

1. FACTORY INSTALLED BUILT-IN FLOW CONTROL.
2. FOR GRAVITY DRAINAGE APPLICATIONS ONLY. DO NOT USE FOR PRESSURE APPLICATIONS.
3. 3/8" THICK HIGH DENSITY POLYETHYLENE WALLS.
4. CUSTOM EXTENSION HEIGHTS AVAILABLE.
5. ENGINEERED INLET AND OUTLET DIFFUSERS ARE REMOVABLE TO INSPECT/CLEAN PIPING.
6. FOR ON-THE-FLOOR OR BURIED APPLICATIONS.
7. MEDIUM-DUTY COMPOSITE COVER WITH 5/16" STAINLESS STEEL BOLTS. (LOAD CAPACITY 5000 LBS.)
8. INTEGRAL AIR RELIEF / ANTI-SIPHON.

ENGINEERED INLET AND OUTLET DIFFUSERS

THE INLET DIFFUSER DISTRIBUTES INCOMING EFFLUENT INTO TWO PATHS THAT UTILIZE THE ENTIRE LIQUID VOLUME OF THE TANK FOR EFFICIENT OIL SEPARATION. THE CALIBRATED OPENINGS GREATLY REDUCE EFFLUENT TURBULENCE. THE EFFLUENT ENTERS THE TANK WITHOUT DISTURBING THE OIL OR SEDIMENT LAYERS.

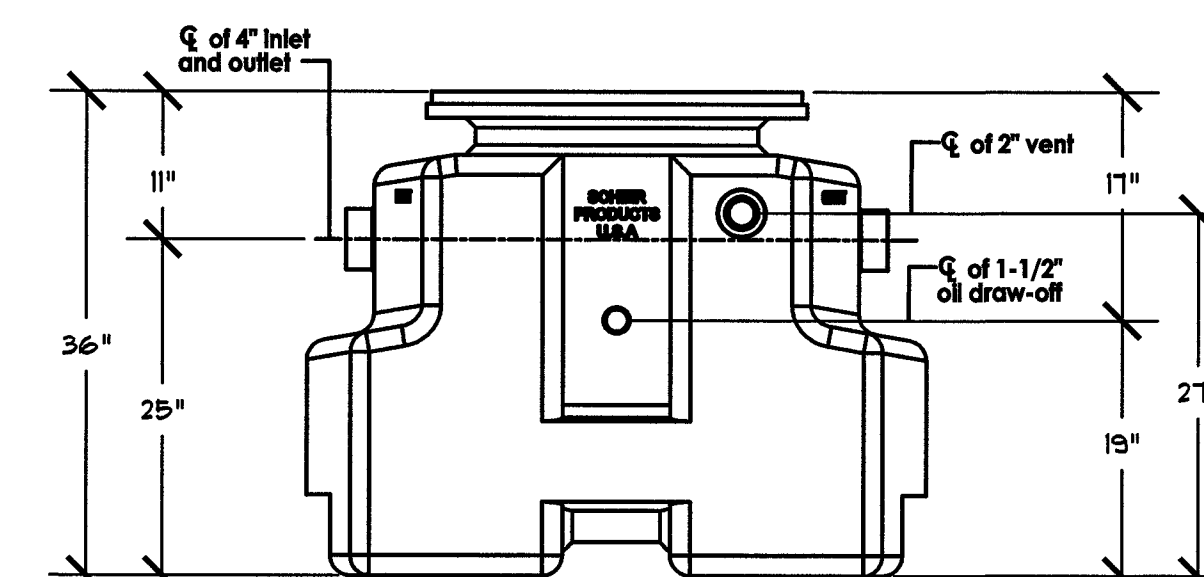
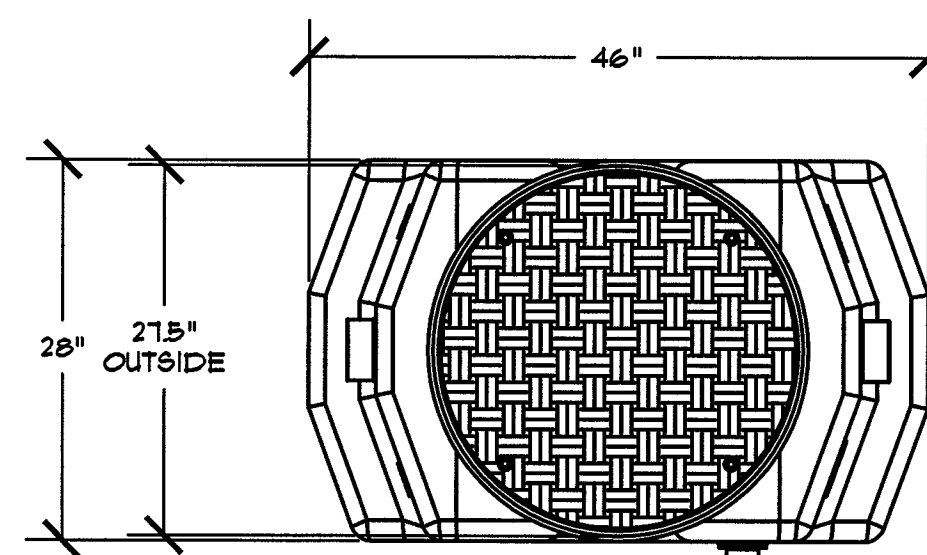
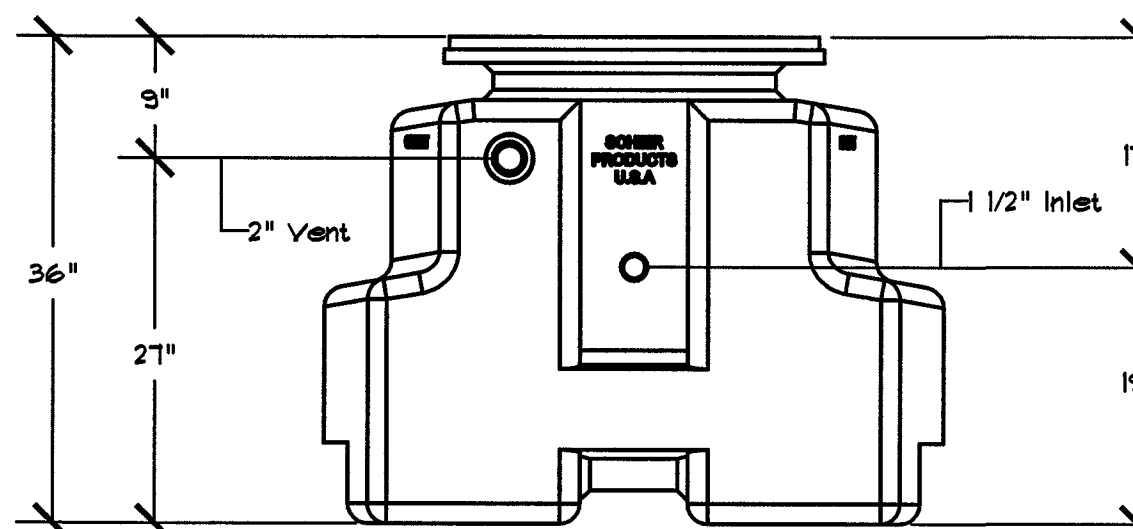
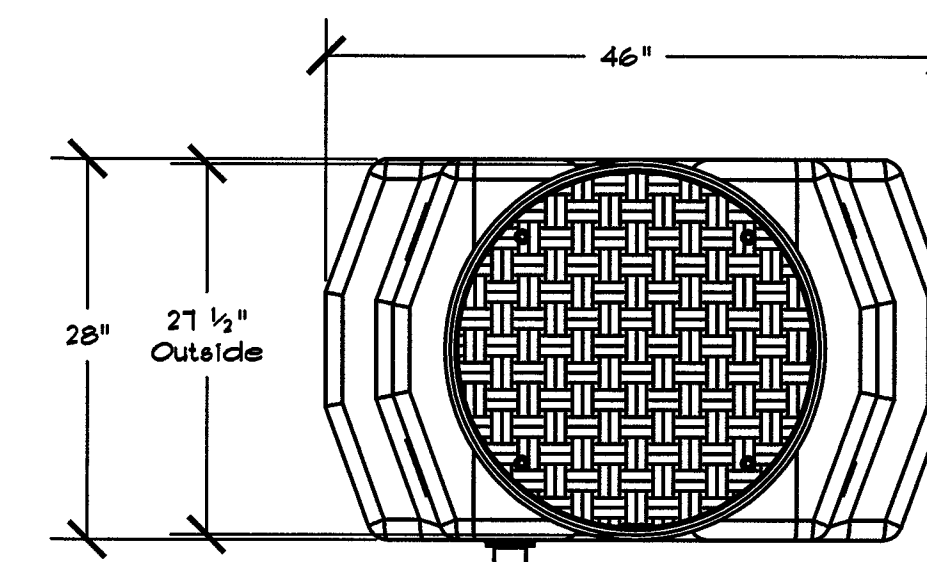
THE OUTLET DIFFUSER ALLOWS ONLY EFFLUENT WHICH IS FREE OF OIL TO EXIT THE TANK.

ENGINEER SPECIFICATION GUIDE

SEPARATOR SHALL BE LIFETIME GUARANTEED AND MADE IN USA OF SEAMLESS, ROTATIONALLY-MOLDED HIGH DENSITY POLYETHYLENE WITH MINIMUM 1/2" UNIFORM WALL THICKNESS. SEPARATOR SHALL BE FURNISHED WITH 1-1/2" ADJUSTABLE OIL DRAU-OFF CONNECTION AND BE SUITABLE FOR ABOVE OR BELOW GRADE INSTALLATION. AT THE UNIT'S RATED CONTINUOUS FLOW, SEPARATOR SHALL SEPARATE AT LEAST 82% OF ALL FLOATABLE LIQUID SUBSTANCES OF SPECIFIC GRAVITY .81 OR LESS. UNIT SHALL HAVE INTERNAL FLOW CONTROL. COVER SHALL BE GASKETED AND CONSTRUCTED OF FIBERGLASS COMPOSITE WITH MINIMUM 5000 LB LOAD CAPACITY.

OPTIONS TO BE PROVIDED:

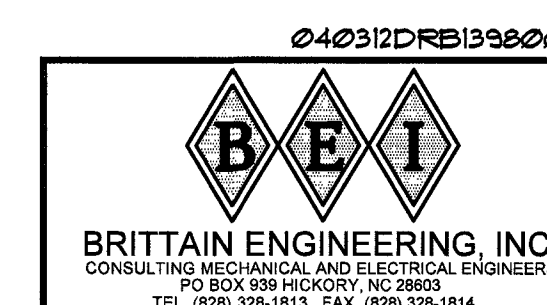
- EXT - CUSTOM EXTENSION TO FINISHED FLOOR OR GRADE.
- H20 LOAD RATED SEALED COMPOSITE COVER (AVAILABLE IN BOLTED OR PICKABLE STYLE)
- MPT - MALE PIPE THREAD CONNECTIONS



OIL INTERCEPTOR DETAIL

BASE BID

NTS



DOBSON EQUIPMENT SHOP
HIGHWAY DIVISION 11, NCDOT
SURREY COUNTY * NORTH CAROLINA

REVISED : 12-20-2018
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CHECKED : DRB
COMM. : 1806
SCO ID# : 12-01354-02A
DATE : 04-04-2018

P5 OF 5

DOBSON EQUIPMENT SHOP
HIGHWAY DIVISION 11, NCDOT
SURRY COUNTY • NORTH CAROLINA

REVISED : 12-20-2013
REVISED :
REVISED :

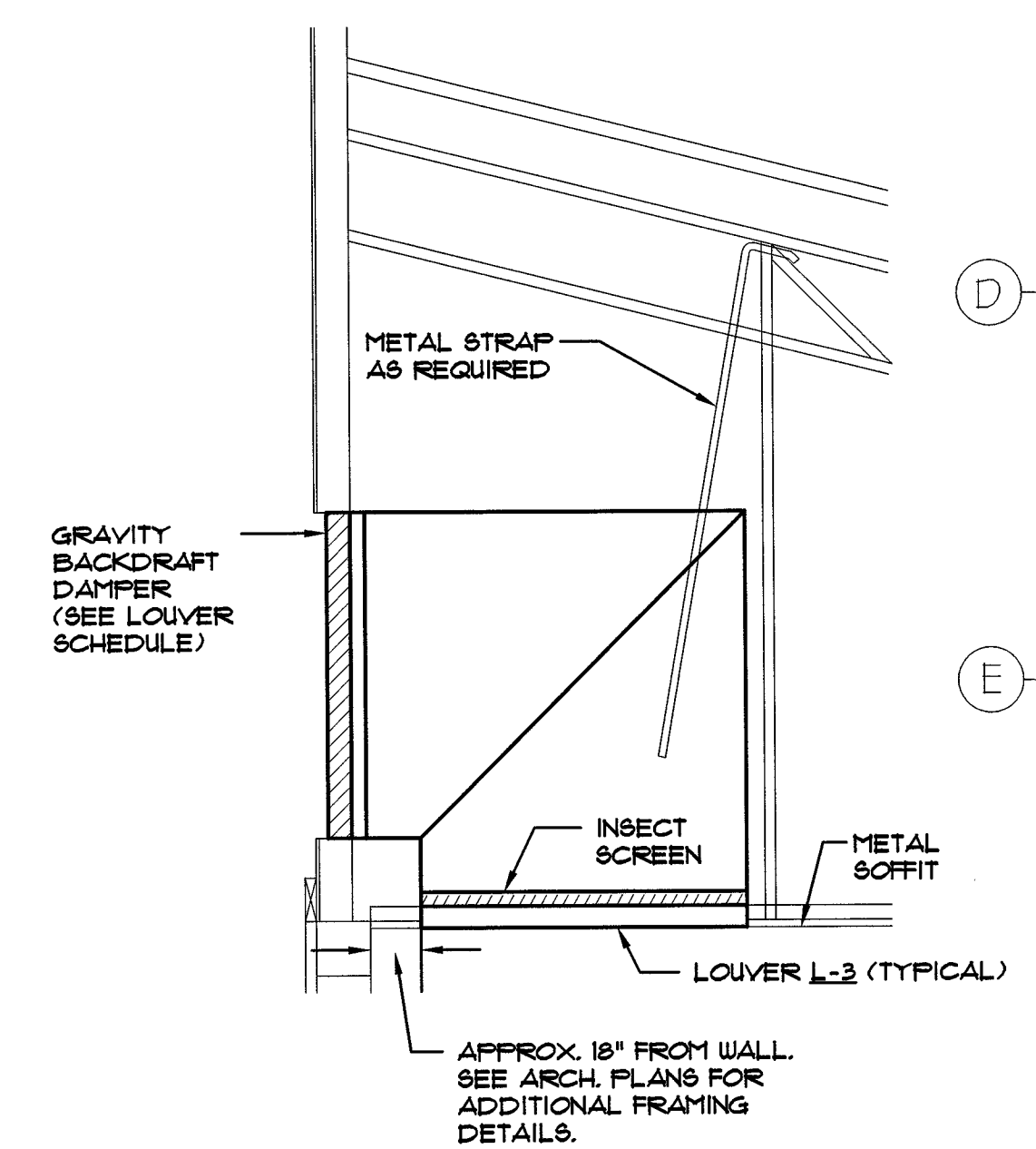
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COMM. : BCB
SCO ID# : 12-0354-02A
DATE : 01-09-2013

M1 of 4

SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE OR REGISTER
	EXHAUST AIR GRILLE OR REGISTER
	DUCTWORK
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
	TRANSITION RECTANGULAR TO RECTANGULAR
	TRANSITION RECTANGULAR TO ROUND
	ELBOW W/SINGLE THICKNESS VANES
	ADJUSTABLE SPLITTER TEE WITH TURNING VANES (SUPPLY AIR ONLY)
	THERMOSTAT
	FIRE DAMPER - VERTICAL
	FIRE DAMPER - HORIZONTAL
	GAS PIPING
	GATE VALVE
	PIPE RISER
	PIPE DROP
	CAP ON END OF MAIN OR PLUGGED TEE
	AIR HANDLING UNIT
	ABOVE FINISHED FLOOR
	CONDENSING UNIT
	DOWN
	EXHAUST AIR
	OUTSIDE AIR
	OPPOSED BLADE DAMPER
	RETURN GRILLE
	RETURN AIR
	SUPPLY AIR
	SUPPLY FAN
	TYPICAL
	MANUAL MOTOR RATED TOGGLE SWITCH



MAKE-UP-AIR
DUCT DETAIL-
SOFFIT MTD

NTS

OUTSIDE AIR CALCULATIONS: WORK BAY
PER 2012 NORTH CAROLINA MECHANICAL CODE:
REPAIR GARAGE = 0.15 CFM/SF.
5400 SF. X 0.15 CFM/SF. = 4,050 CFM
4,050 CFM O.A. REQUIRED.
8,400 CFM PROVIDED VIA E-3, 4, & 6 FOR SUMMER VENTILATION.

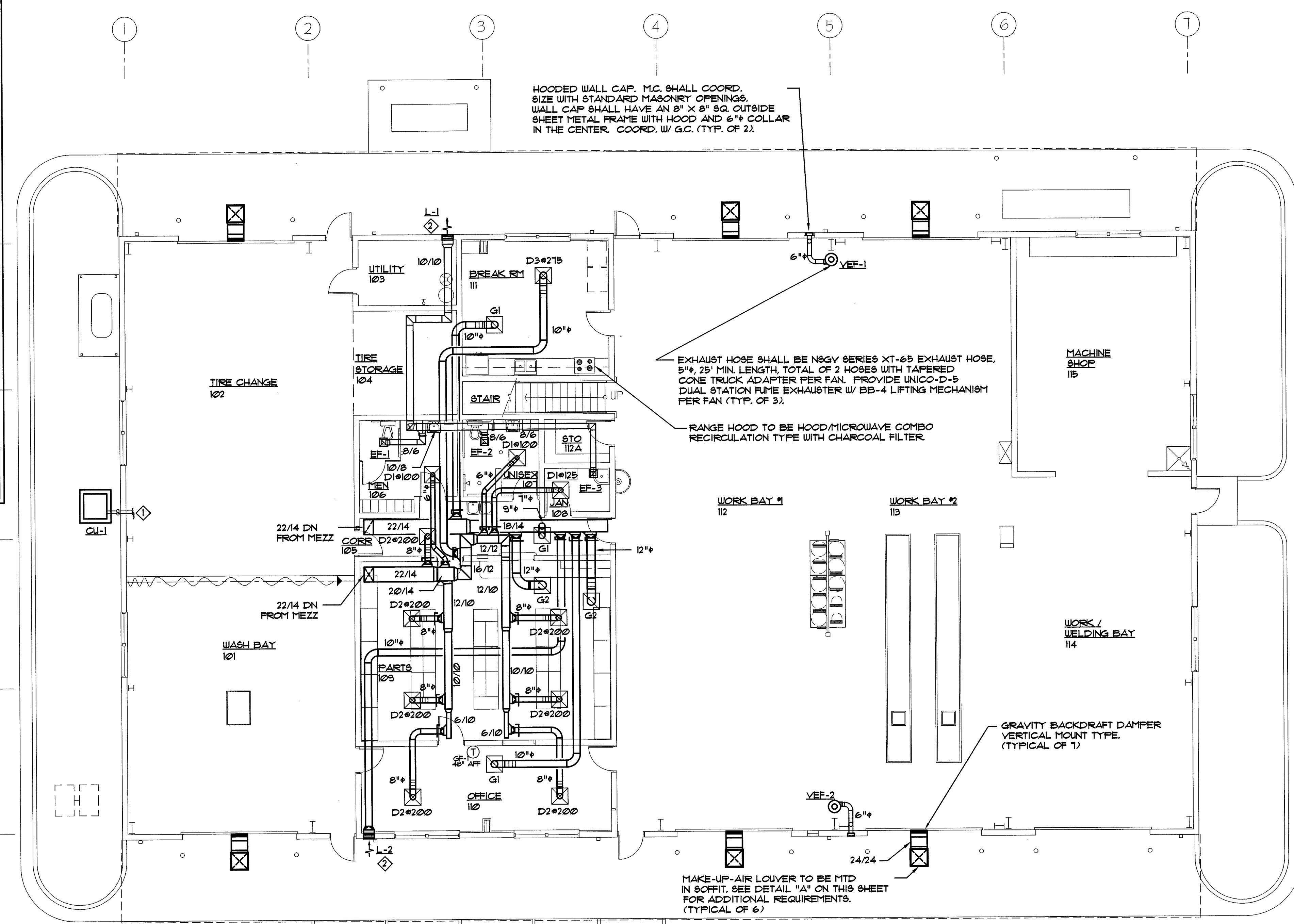
OUTSIDE AIR CALCULATIONS: TIRE/WASH BAY
PER 2012 NORTH CAROLINA MECHANICAL CODE:
REPAIR GARAGE = 0.15 CFM/SF.
2125 SF. X 0.15 CFM/SF. = 1594 CFM
1594 CFM O.A. REQUIRED.
1300 CFM PROVIDED VIA E-1 & 2 FOR SUMMER VENTILATION.

KEYNOTE LEGEND: (THIS SHEET ONLY)

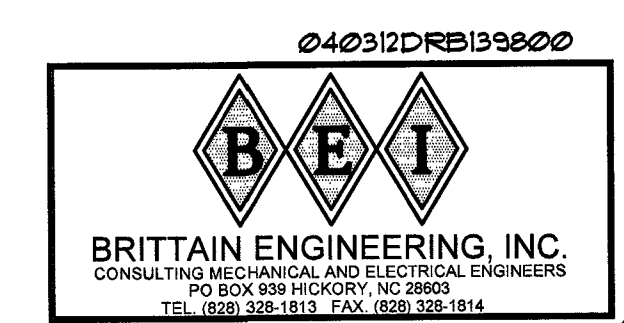
- ◇ EXTEND THE REFRIGERANT PIPING FROM THE EVAPORATOR COIL TO THE CONDENSER. THE PIPING AND TRAPS SHALL BE SIZED AND INSTALLED PER THE HVAC EQUIPMENT MFR'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- ◇ COORDINATE EXACT LOCATIONS OF VENTS AND LOUVERS WITH ARCHITECTURAL ELEVATIONS SHEET A4.

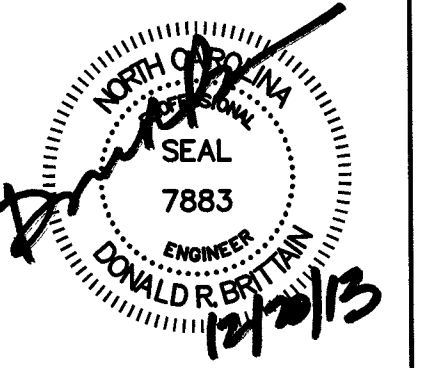
FLOOR PLAN - HYAC

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



OUTSIDE AIR CALCULATIONS: CUSTOMER LOUNGE/RETAIL
PER 2012 NORTH CAROLINA MECHANICAL CODE:
OFFICE SPACE
Vbz = Rp/Pz, Ra/Az
Vbz = OUTDOOR AIR RATE IN BREATHING ZONE
Az = FLOOR AREA OF SPACE
Pz = PEOPLE IN SPACE
Rp = PEOPLE OUTDOOR AIR RATE
Ra = AREA OUTDOOR AIR RATE
Vbz = 5 CFM/PERSON (510 SF.5 PEOPLE/1000 SF.) + 0.06 CFM/SF.510 SF.
Vbz = 43 SF. OUTSIDE AIR
STORAGE = 0.12 CFM/SF.
124 SF. X 0.12 CFM/SF. = 81 CFM
CORRIDOR = 0.06 CFM/SF.
136 SF. X 0.06 CFM/SF. = 8 CFM
138 CFM OUTSIDE AIR REQUIRED.
Vbz = Vbz/Ez
Vbz = 138/0.8
Vbz = 172 CFM
172 CFM OUTSIDE AIR REQUIRED.
175 CFM OUTSIDE AIR SUPPLIED VIA GF-1





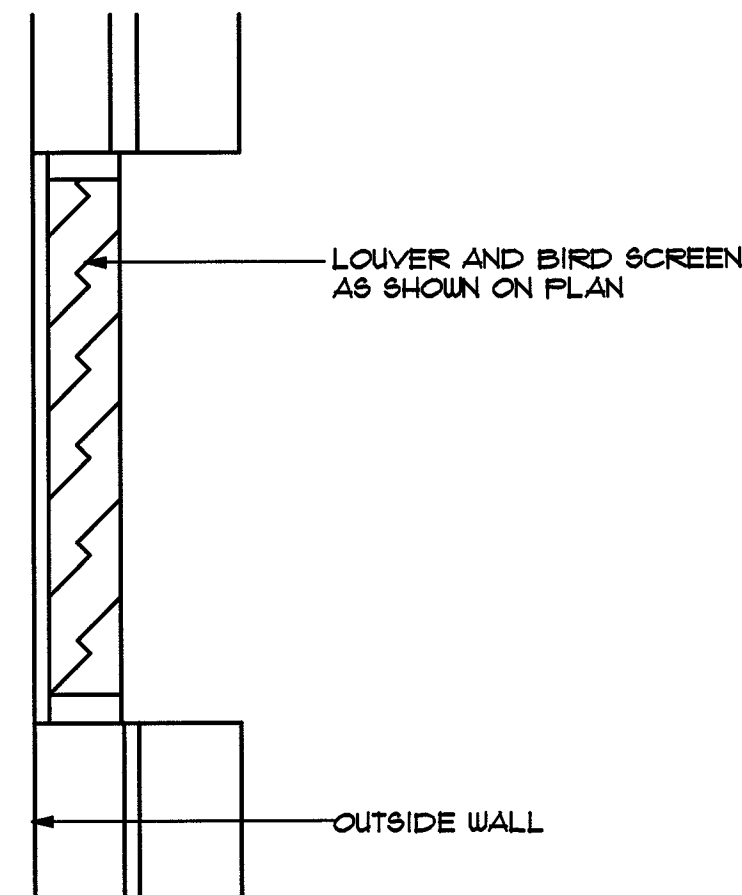
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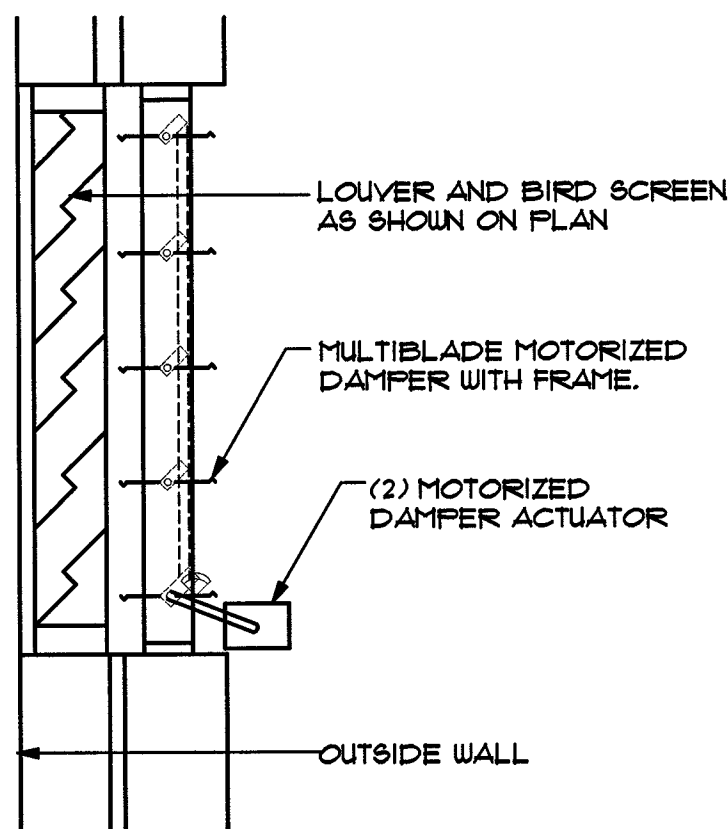
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SCO ID#: 12-0354-02A
DATE: 04-04-2018

M2 OF 2



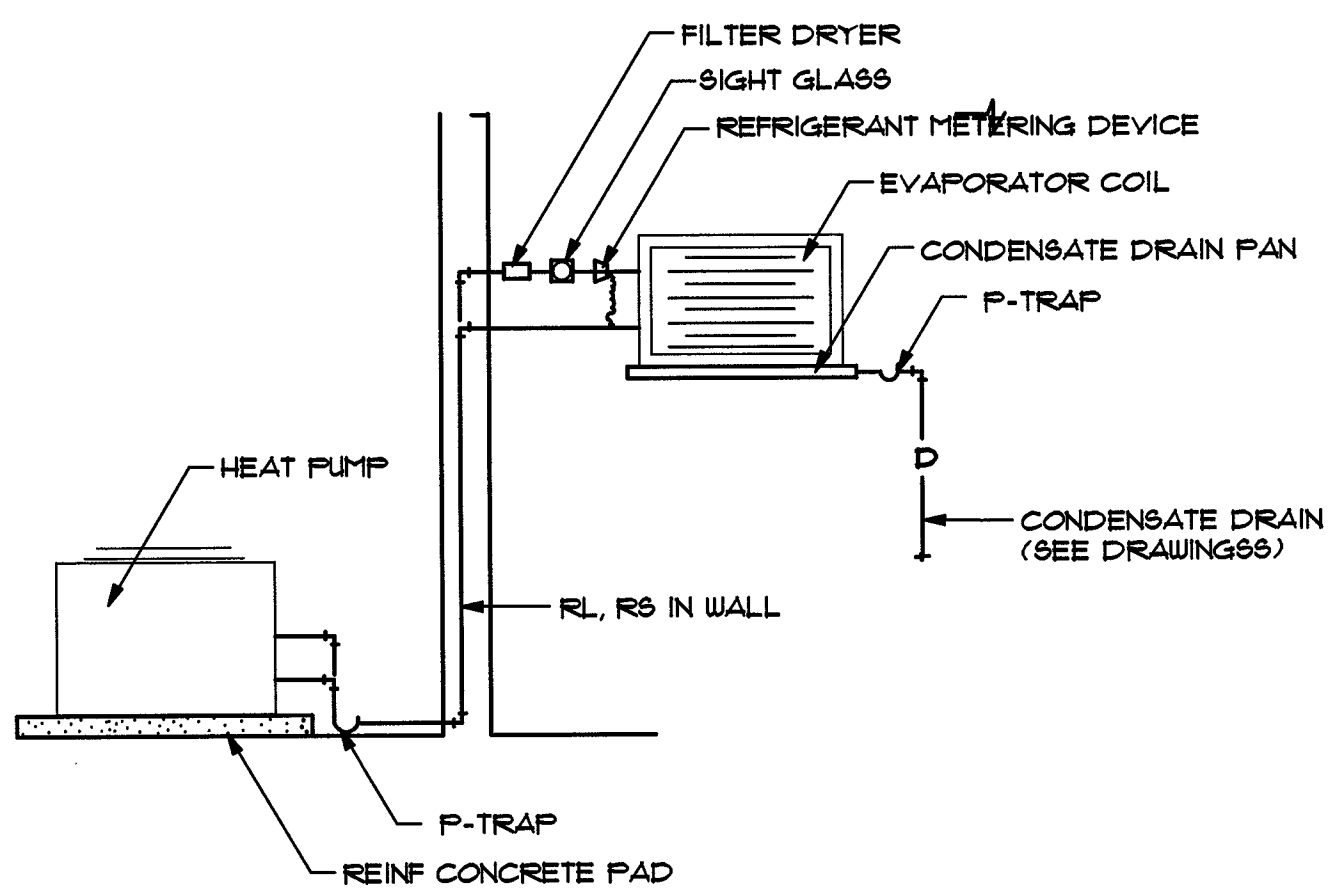
NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR EXACT WALL TYPES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

A LOUVER DETAIL
SCALE: NTS

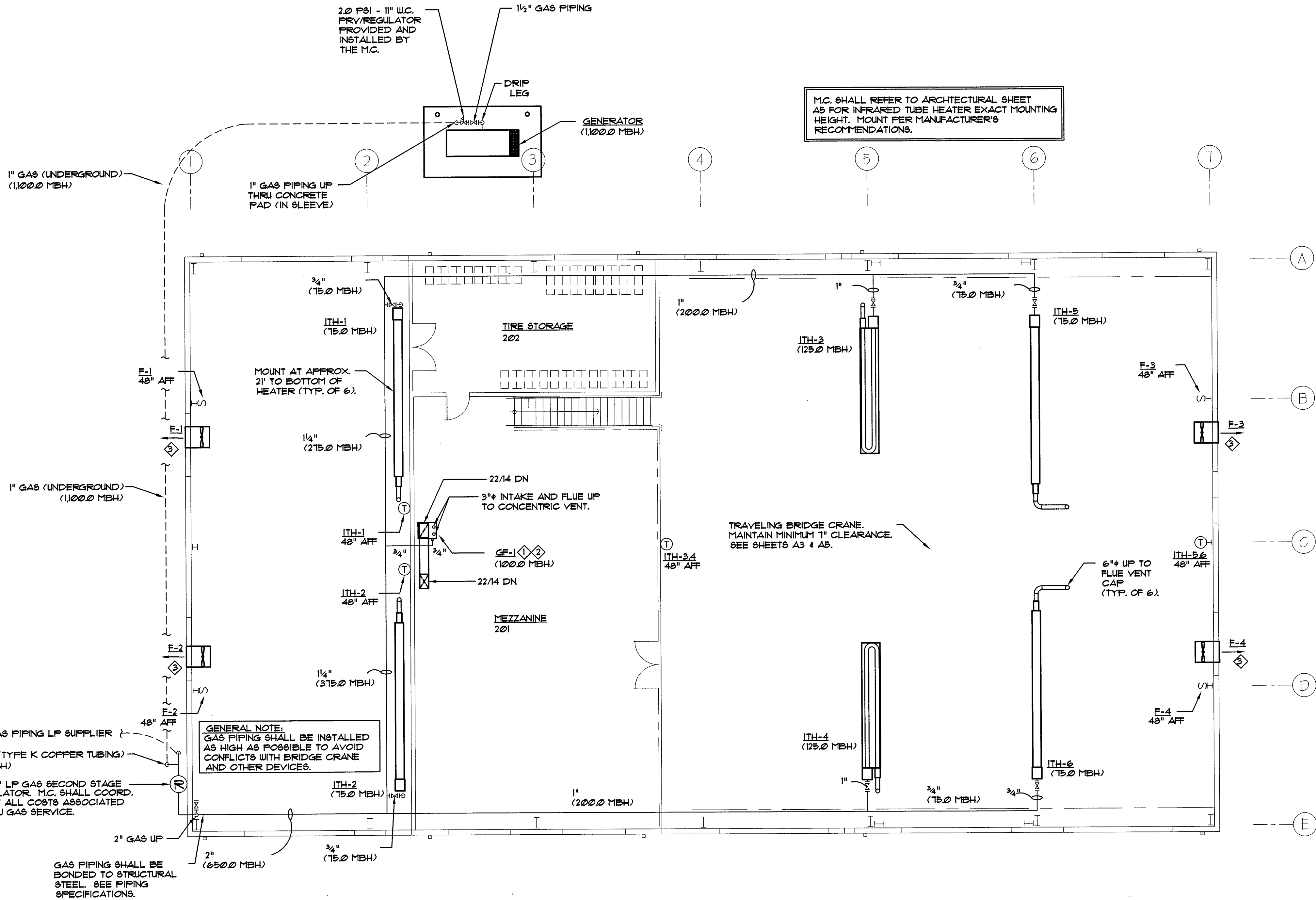


NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR EXACT WALL TYPES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

B LOUVER WITH DAMPER DETAIL
SCALE: NTS



C CONDENSING UNIT ON GROUND PIPING DIAGRAM
SCALE: NTS



KEYNOTE LEGEND: (THIS SHEET ONLY)

- ① EXTEND THE REFRIGERANT PIPING FROM THE EVAPORATOR COIL TO THE CONDENSER. THE PIPING AND TRAPS SHALL BE SIZED AND INSTALLED PER THE HVAC EQUIPMENT MFR'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- ② EXTEND THE CONDENSATE DRAIN FROM THE EVAPORATOR COIL TO THE HUB DRAIN. THE DRAIN AND TRAP SHALL BE SIZED AND INSTALLED PER THE HVAC EQUIPMENT MFR'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- ③ COORDINATE EXACT LOCATIONS OF EXHAUST FANS WITH ARCHITECTURAL ELEVATIONS SHEET A4.

MEZZANINE FLOOR PLAN - HVAC

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

GAS LOAD SUMMARY: (UNDERGROUND)

GENERATOR	1,100.0 MBH
TOTAL	1,100.0 MBH

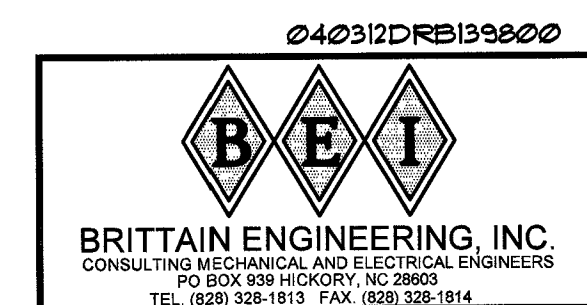
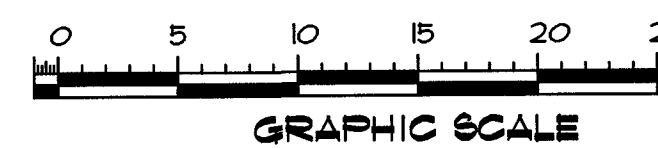
TOTAL EQUIVALENT LENGTH OF LP GAS PIPING IS 150 LF. 1" SEMIRIGID COPPER TUBING WILL CARRY 2,120.0 MBH OF 2.0 PSI GAS • 150 LF PER TABLE 402.4(2) OF THE 2012 NORTH CAROLINA FUEL GAS CODE.

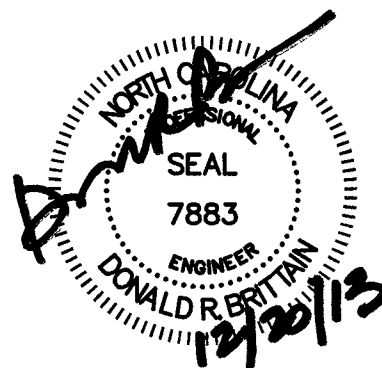
M.C. SHALL PROVIDE & INSTALL THE 2.0 PSI - 110" W.C. PRV/REGULATOR AS REQUIRED FOR THE GENERATOR.

GAS LOAD SUMMARY:

GF-1	110.0 MBH
ITH-1	175.0 MBH
ITH-2	175.0 MBH
ITH-3	125.0 MBH
ITH-4	125.0 MBH
ITH-5	175.0 MBH
ITH-6	175.0 MBH
TOTAL	660.0 MBH

TOTAL EQUIVALENT LENGTH OF GAS PIPING IS 250 LF. 2" WILL CARRY 1,440.0 MBH OF 11" W.C. LP GAS • 250 LF PER TABLE 402.4(2) OF 2012 NORTH CAROLINA FUEL GAS CODE.





INFRA-RED TUBE HEATER SCHEDULE											
TAG	MFR	MODEL	LP GAS INPUT MBH	RADIANT SURFACE SQ. FT.	SIZE (IN.)			ELECTRICAL			REMARKS
					L	W	H	START AMPS	RUN AMPS	VOLTS PH	
ITH-1	SPACE- RAY	LT8-15-20	15.0	---	213	13	6	---	2.6	120V 1Ø	ISOLATION BRACKETS, WALL MOUNTED T'STAT, DISCONNECT SWITCH, MOUNT ON 45°, LP GAS CONVERSION KIT
ITH-2	SPACE- RAY	LT8-15-20	15.0	---	213	13	6	---	2.6	120V 1Ø	ISOLATION BRACKETS, WALL MOUNTED T'STAT, DISCONNECT SWITCH, MOUNT ON 45°, LP GAS CONVERSION KIT
ITH-3	SPACE- RAY	LTU-125-30	125.0	---	2105	28	7	---	2.6	120V 1Ø	ISOLATION BRACKETS, WALL MOUNTED T'STAT, DISCONNECT SWITCH, LP GAS CONVERSION KIT
ITH-4	SPACE- RAY	LTU-125-30	125.0	---	2105	28	7	---	2.6	120V 1Ø	ISOLATION BRACKETS, WALL MOUNTED T'STAT, DISCONNECT SWITCH, LP GAS CONVERSION KIT
ITH-5	SPACE- RAY	LT8-15-20	15.0	---	213	13	6	---	2.6	120V 1Ø	ISOLATION BRACKETS, WALL MOUNTED T'STAT, DISCONNECT SWITCH, MOUNT ON 45°, LP GAS CONVERSION KIT
ITH-6	SPACE- RAY	LT8-15-20	15.0	---	213	13	6	---	2.6	120V 1Ø	ISOLATION BRACKETS, WALL MOUNTED T'STAT, DISCONNECT SWITCH, MOUNT ON 45°, LP GAS CONVERSION KIT

ACCEPTABLE MANUFACTURERS: SPACE-RAY, ROBERTS GORDON, SUPERIOR RADIANT, SWANK.

OFFICE AREA ONLY
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
METHOD OF COMPLIANCE
Prescriptive • Energy Cost Budget _____
Thermal Zone 4A
Exterior design conditions:
winter dry bulb 14° F
summer dry bulb 91° F DB/73° F WB
Interior design conditions:
winter dry bulb 75° F
summer dry bulb 78° F
relative humidity 50%
Building heating load 402.6 MBH
Building cooling load 55.1 MBH
Mechanical Spacing Conditioning System:
Unitary description of unit GAS FIRED FURNACE
heating efficiency SEE SCHEDULES
cooling efficiency SEE SCHEDULES
heat output of unit SEE SCHEDULES
cooling output of unit SEE SCHEDULES
boiler total boiler output. If oversized, state reason.
N/A
chiller total chiller capacity. If oversized, state reason.
N/A
List equipment efficiencies. N/A
Equipment schedules with motors (mechanical systems):
motor horsepower SEE SCHEDULES
number of phases SEE SCHEDULES
minimum efficiency PER NEMA STD MG 1-2023, TABLES 12-10 & 11
motor type ODP
of poles 4
DESIGNER STATEMENT:
To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipments of the North Carolina State Building Code, Energy Conservation Code, 2012 ed.
SIGNED: *Donald R. Brittain*
NAME: DONALD R. BRITTAIN
TITLE: PROFESSIONAL ENGINEER

GAS FIRED FURNACE SCHEDULE		
DESIGNATION	GF-1	
MANUFACT.	TRANE	
MODEL NO.	TDH110A3601A	
CFM	2000	
O.A. CFM	175	
ESP (IN WC.)	0.55"	
INPUT (MBH)	110.0	
OUTPUT (MBH)	104.5	
EFFICIENCY	95%	
TEMP. RISE (°F)	480	
FAN HP	3/4	
FILTERS	(1) 24 X 25 X 1	
POWER SUPPLY	120V/1Ø/60	
MCA	12.9	
MOP	20.0	
WEIGHT (LBS)	193	
ACCESSORIES:	7-DAY PROG. T'STAT, MATCHING COOLING COIL (MODEL 4TXCD061BC3), DISCONNECT SWITCH, TWO SPARE FILTERS, LP GAS CONVERSION KIT, CONDENSATE NEUTRALIZATION KIT	

ACCEPTABLE MANUFACTURERS: TRANE, RHEEM, LENNOX.

CONDENSER UNIT COOLING ONLY SCHEDULE												
UNIT NO.	COOLING CAP. (BTUH) AT ARI, STD CONDITIONS	SENSIBLE CAP. (BTUH) AT ARI, STD CONDITIONS	FACE VELOCITY (FPM)	COIL EAT. (DB/WB)	COIL EAT. (DB)	SEER	ELECTRICAL POWER			OPERATING WEIGHT (LBS)	MANUFACTURER & MODEL NUMBER OR APPROVED EQUAL	
							VOLTS	PHASE	MCA AMPS			MOP AMPS
CU-1	51,000	43,100	286	80.0/67.0	60.5	15.0	208	1	31.0	60.0	215	TRANE 4TTB6061A1000A

ACCEPTABLE MANUFACTURERS: TRANE, RHEEM, LENNOX.

(1) REFRIGERANT PIPING SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS, LOW AMBIANT COOLING, COIL GUARDS, 250V/60/3Ø FUSED DISCONNECT, FUSE FOR UNIT.

AIR DISTRIBUTION DEVICE SCHEDULE						
TYPE	DESCRIPTION NECK SIZE	MOUNTING	MANUFACTURER CATALOG NO. PRICE	MATERIAL	FINISH	ACCESSORIES/ REMARKS
D1	SUPPLY DIFFUSER 8" X 8"	CEILING SURFACE	52ØD	STEEL	WHITE	VC83 OBD, BORDER TYPE F, SR3 ADAPTER
D2	SUPPLY DIFFUSER 9" X 9"	CEILING LAY-IN	5MD	STEEL	WHITE	VC83 OBD, BORDER TYPE 3P, SR3 ADAPTER
D3	SUPPLY DIFFUSER 12" X 12"	CEILING LAY-IN	5MD	STEEL	WHITE	VC83 OBD, BORDER TYPE 3P, SR3 ADAPTER
G1	RETURN GRILLE 14" X 14"	CEILING LAY-IN	535	STEEL	WHITE	BORDER TYPE TB
G2	RETURN GRILLE 16" X 16"	CEILING LAY-IN	535	STEEL	WHITE	BORDER TYPE TB

ACCEPTABLE MANUFACTURERS: PRICE, TITUS, METALAIR, KRUEGER.

FAN SCHEDULE									
DESIG.	SERVES	CFM	EXT. S.P.	RPM	WATTS H.P.	VOLTS MFG./PART NO. PHASE GREENHECK	SONES	DRIVE	REMARKS
EF-1	MEN	150	0.25	1325	113 W	120V/1Ø 9P-A190	2.0	DIRECT	BACKDRAFT DAMPER, DISCONNECT SWITCH, FACTORY MTD. SPEED CONTROLLER, MOTION SENSOR IN GRILLE
EF-2	UNISEX	150	0.25	1325	113 W	120V/1Ø 9P-A190	2.0	DIRECT	BACKDRAFT DAMPER, DISCONNECT SWITCH, FACTORY MTD. SPEED CONTROLLER, MOTION SENSOR IN GRILLE
EF-3	JAN.	150	0.25	1325	113 W	120V/1Ø 9P-A190	2.0	DIRECT	BACKDRAFT DAMPER, DISCONNECT SWITCH, FACTORY MTD. SPEED CONTROLLER, MOTION SENSOR IN GRILLE
VEF-1	VEHICLE EXHAUST	1200	3"	3450	3 HP	208V/3Ø NSGV AF-12-3	--	DIRECT	WALL MOUNT BRACKET, ON/OFF SWITCH, CERUS BASI-18/J-G10-22 STARTER DISCONNECT, INLET Y FITTING, TAPERED CONE ADAPTER, VIB. ISOLATORS
VEF-2	VEHICLE EXHAUST	1200	3"	3450	3 HP	208V/3Ø NSGV AF-12-3	--	DIRECT	WALL MOUNT BRACKET, ON/OFF SWITCH, CERUS BASI-18/J-G10-22 STARTER DISCONNECT, INLET Y FITTING, TAPERED CONE ADAPTER, VIB. ISOLATORS
F-1	BAY EXHAUST	3650	.125	544	1/4 HP	120V/1Ø 9BE-IL24-4	10.0	BELT	GRAVITY DISCHARGE DAMPER, DISCONNECT SWITCH, SHORT WALL HOUSING, EXTENDED LUBE LINES, CLOSURE ANGLES
F-2	BAY EXHAUST	3650	.125	544	1/4 HP	120V/1Ø 9BE-IL24-4	10.0	BELT	GRAVITY DISCHARGE DAMPER, DISCONNECT SWITCH, SHORT WALL HOUSING, EXTENDED LUBE LINES, CLOSURE ANGLES
F-3	BAY EXHAUST	5600	.125	690	1/2 HP	120V/1Ø 9BE-IL24-5	12.2	BELT	GRAVITY DISCHARGE DAMPER, DISCONNECT SWITCH, SHORT WALL HOUSING, EXTENDED LUBE LINES, CLOSURE ANGLES
F-4	BAY EXHAUST	5600	.125	690	1/2 HP	120V/1Ø 9BE-IL24-5	12.2	BELT	GRAVITY DISCHARGE DAMPER, DISCONNECT SWITCH, SHORT WALL HOUSING, EXTENDED LUBE LINES, CLOSURE ANGLES

ACCEPTABLE MANUFACTURERS: GREENHECK, LOREN COOK, TWIN CITY

LOUVER SCHEDULE						
DESIG.	SIZE W X H	CFM	MANUFACTURER AND MODEL NO.	MATERIAL	FINISH	ACCESSORIES/ REMARKS
L-1	16" X 12"	500	GREENHECK EDD-601	ALUMINUM	KYNAR COLOR BY ARCHITECT	(1)
L-2	16" X 12"	500	GREENHECK EDD-601	ALUMINUM	KYNAR COLOR BY ARCHITECT	(1), (2)
L-3	24" X 24"	2500	GREENHECK ESJ-202	ALUMINUM	KYNAR COLOR BY ARCHITECT	(3) (4)

ACCEPTABLE MANUFACTURERS: POTTORFF, RUSKIN, GREENHECK, UNITED INTERTECH.

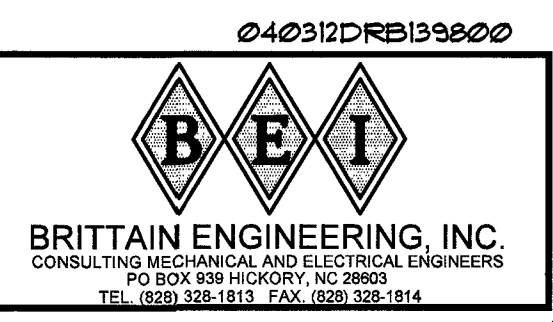
- (1) LOUVERS SHALL BE SUPPLIED BY M.C. M.C. SHALL COORDINATE THE OPENING SIZE W/ THE G.C. G.C. SHALL INSTALL THE LOUVERS COMPLETE.
(2) 24V MOTORIZED DAMPER AT LOUVER TO BE INTERLOCKED WITH GF-1 FAN TO OPEN WHEN FAN IS ENERGIZED.
(3) LOUVER TO BE SUPPLIED COMPLETE WITH FLANGE FRAME, INSECT SCREEN AND SHALL INCLUDE A MODEL UD-430 VERTICAL MOUNT GRAVITY INTAKE DAMPER WITH FLANGE FRAME. (TYPICAL OF 8)
(4) LOUVERS SHALL BE SUPPLIED BY M.C. M.C. SHALL COORDINATE THE OPENING SIZE W/ THE G.C. M.C. SHALL INSTALL THE LOUVERS COMPLETE.

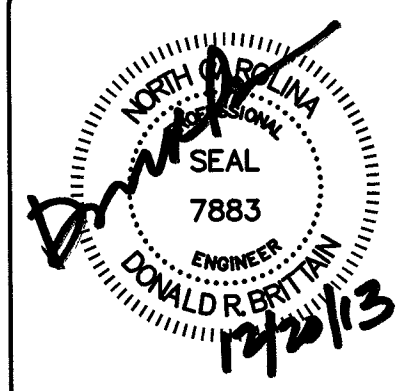
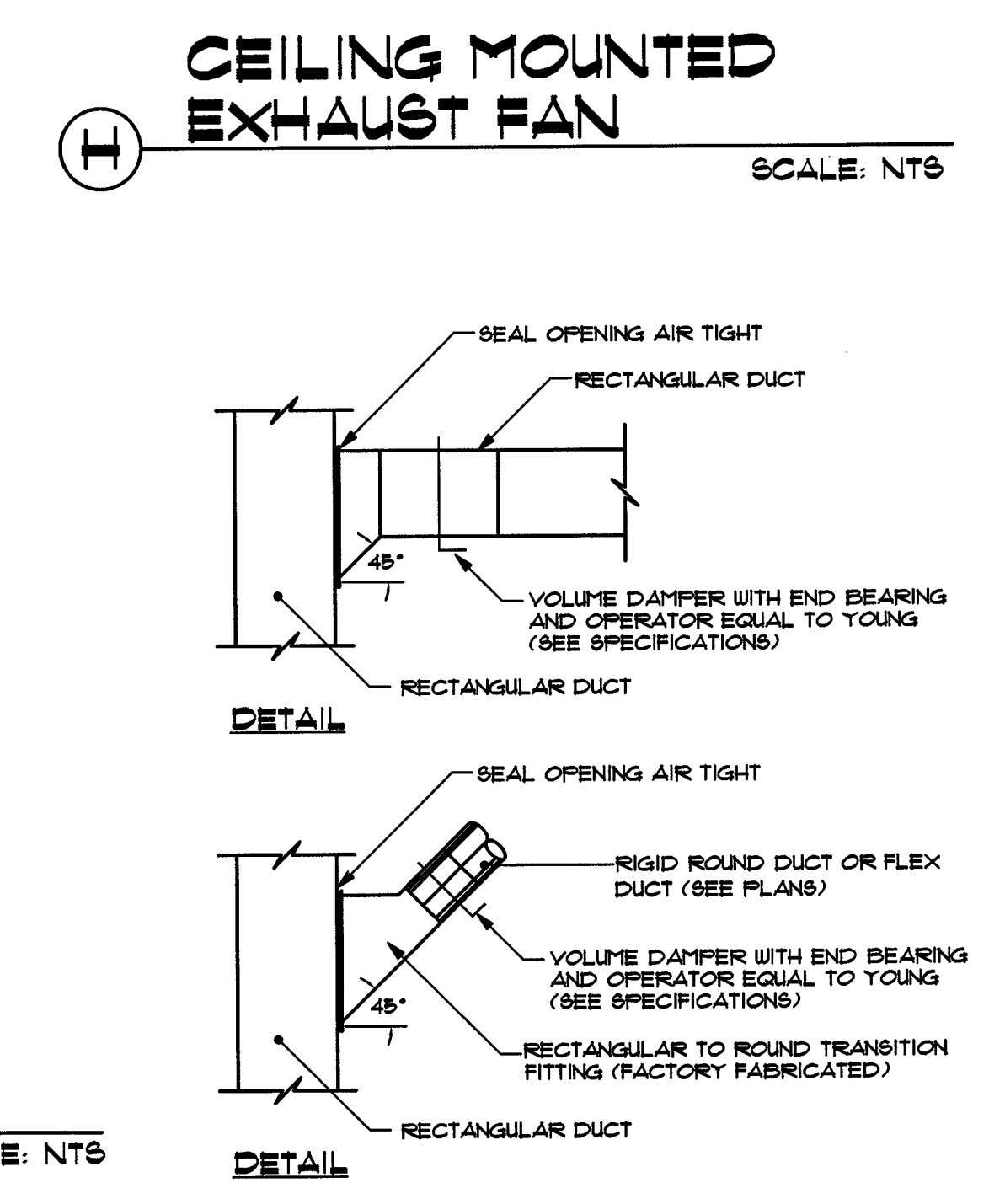
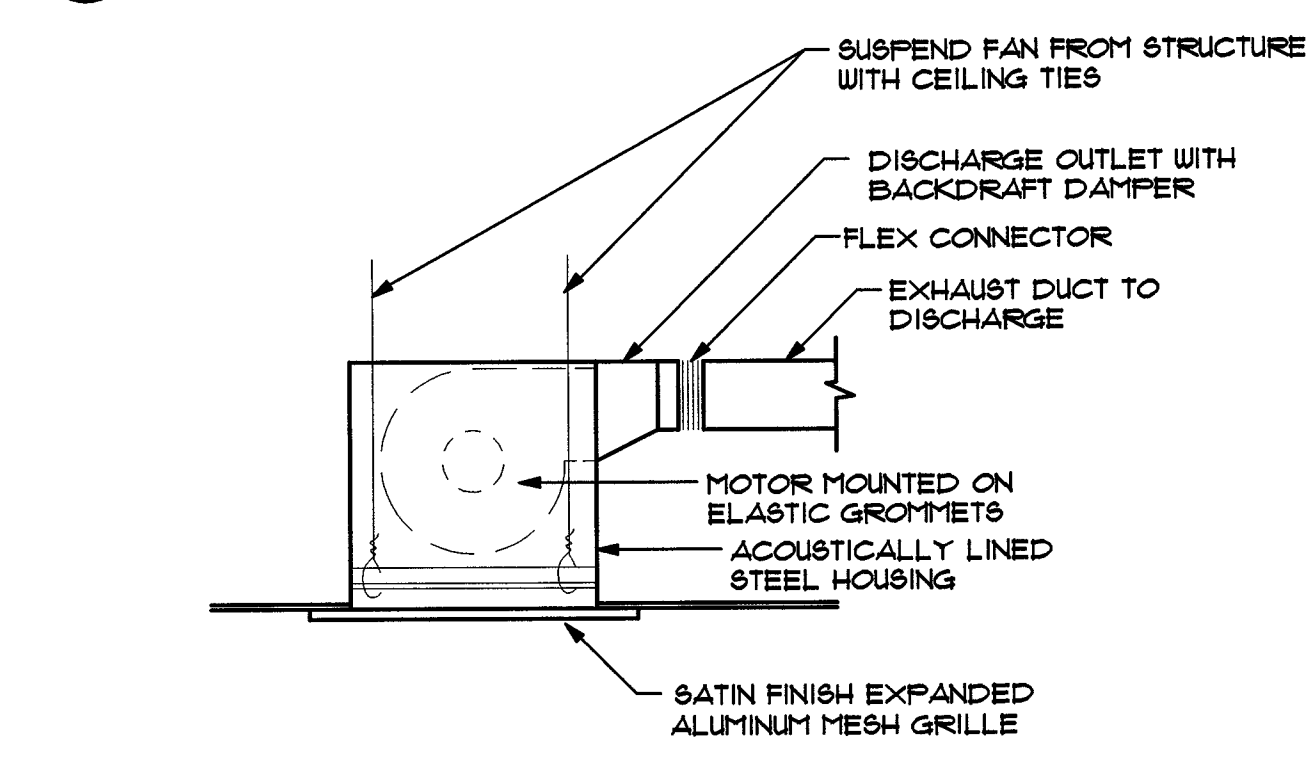
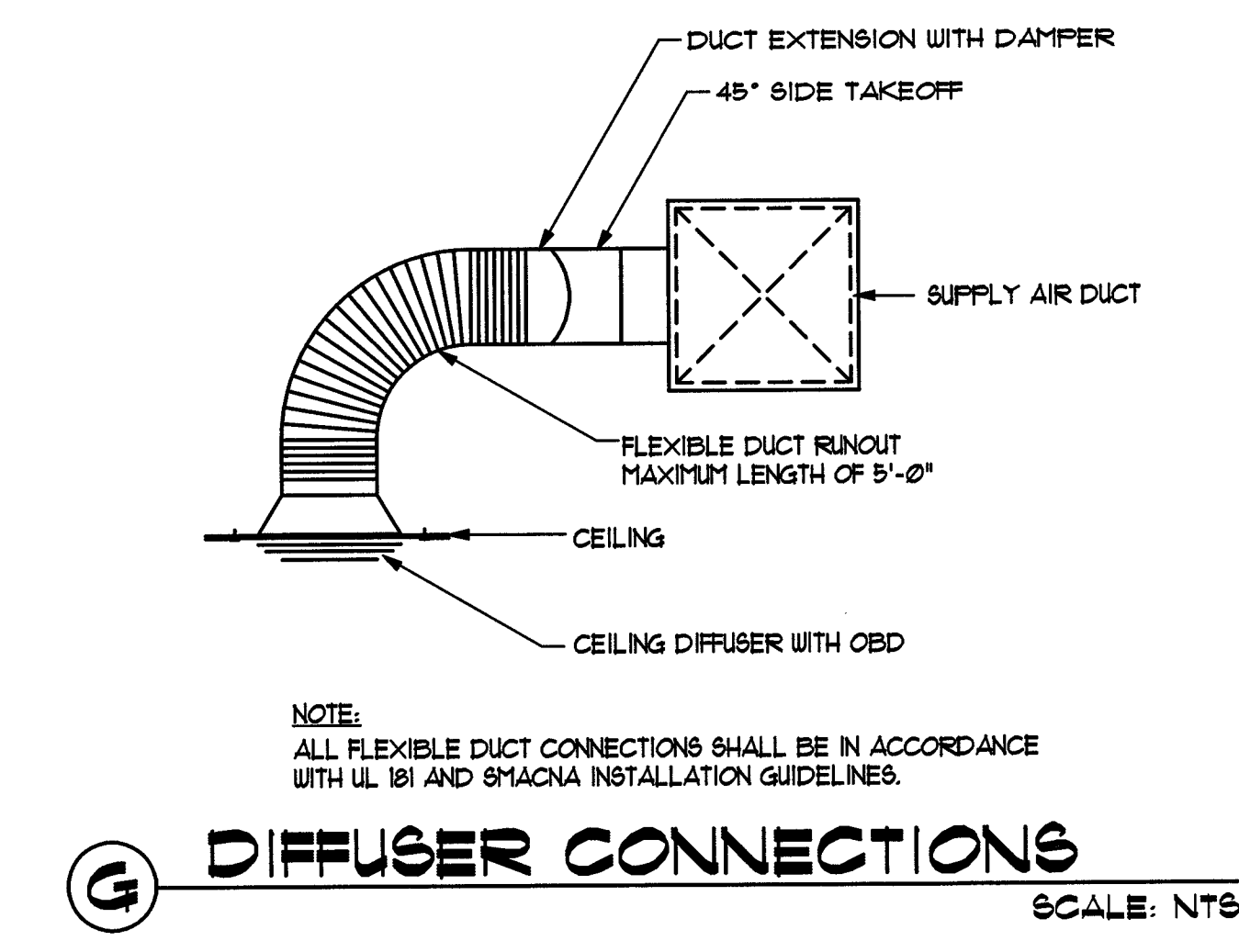
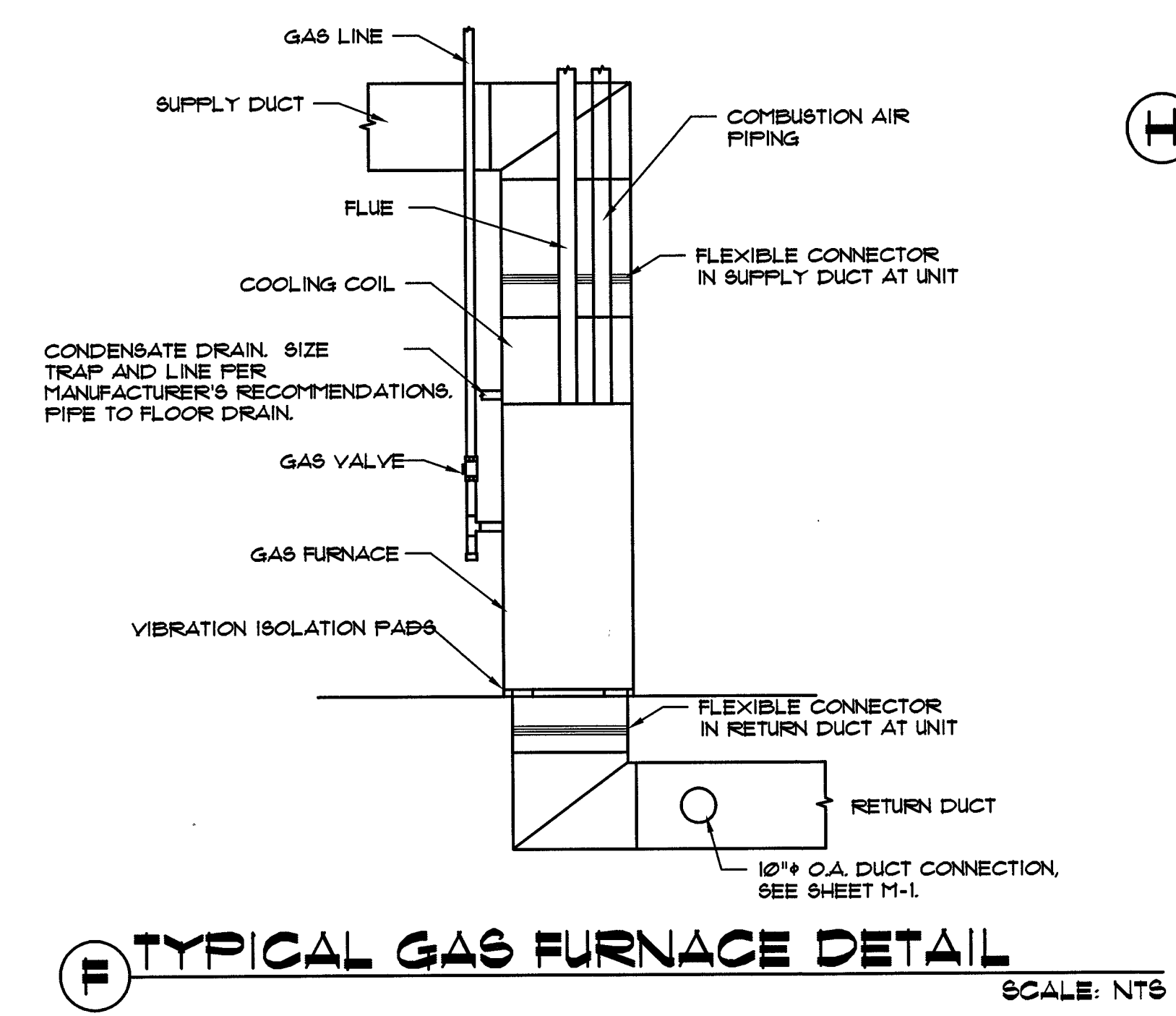
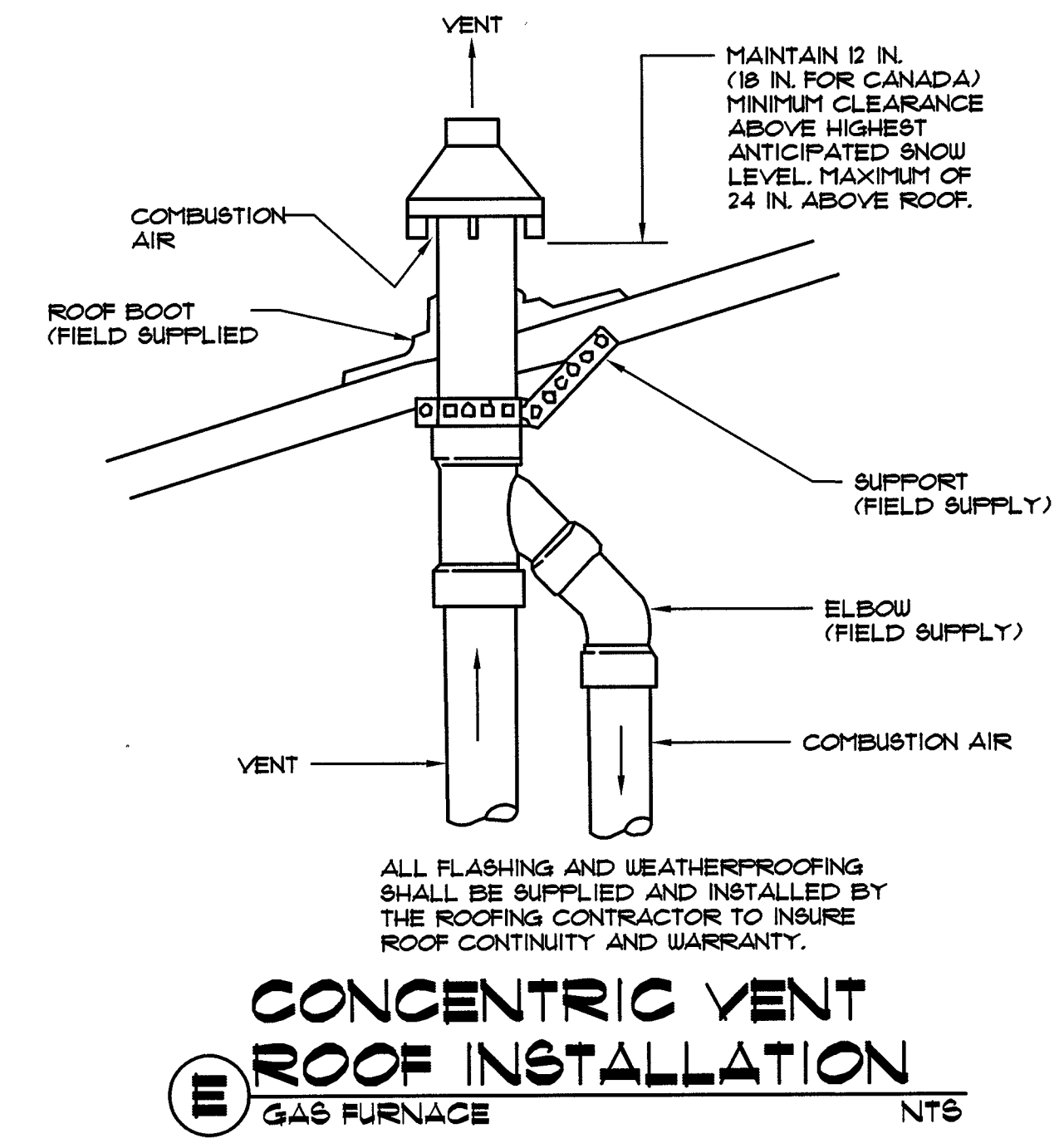
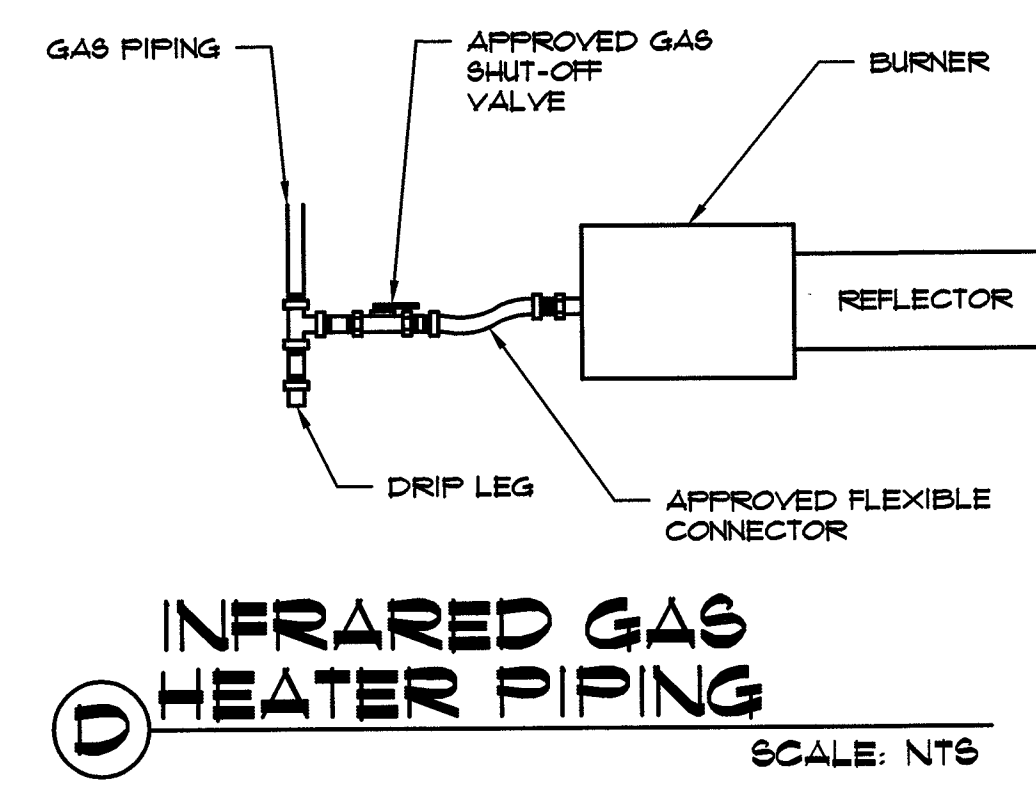
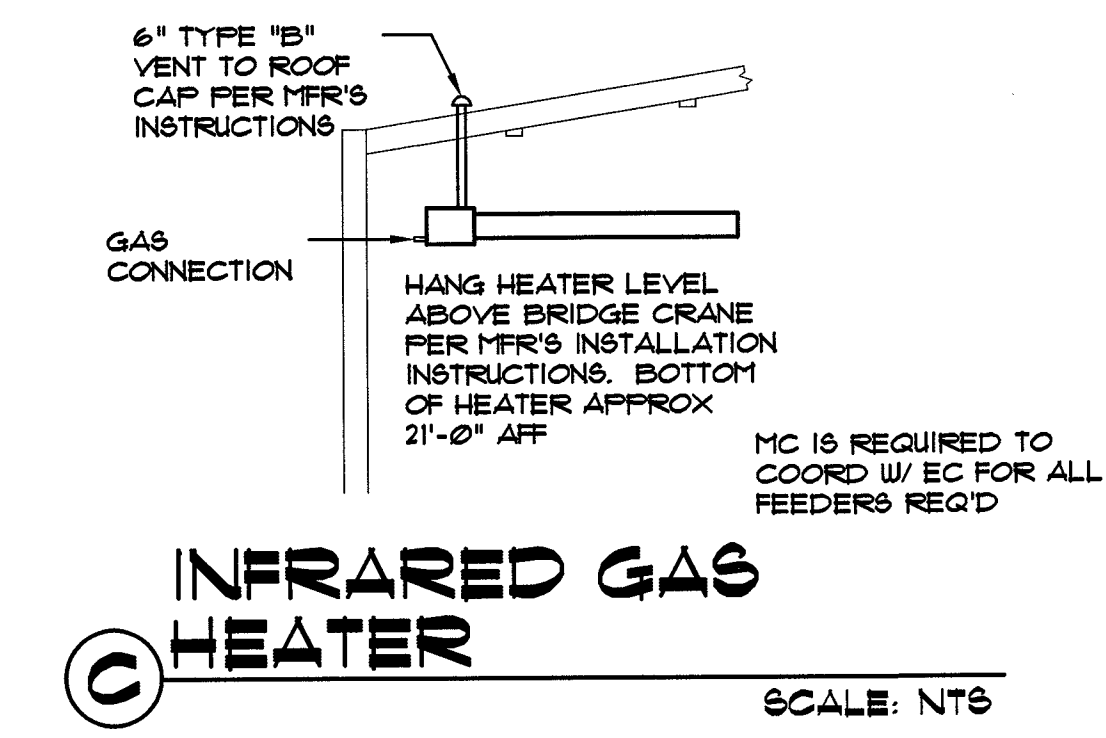
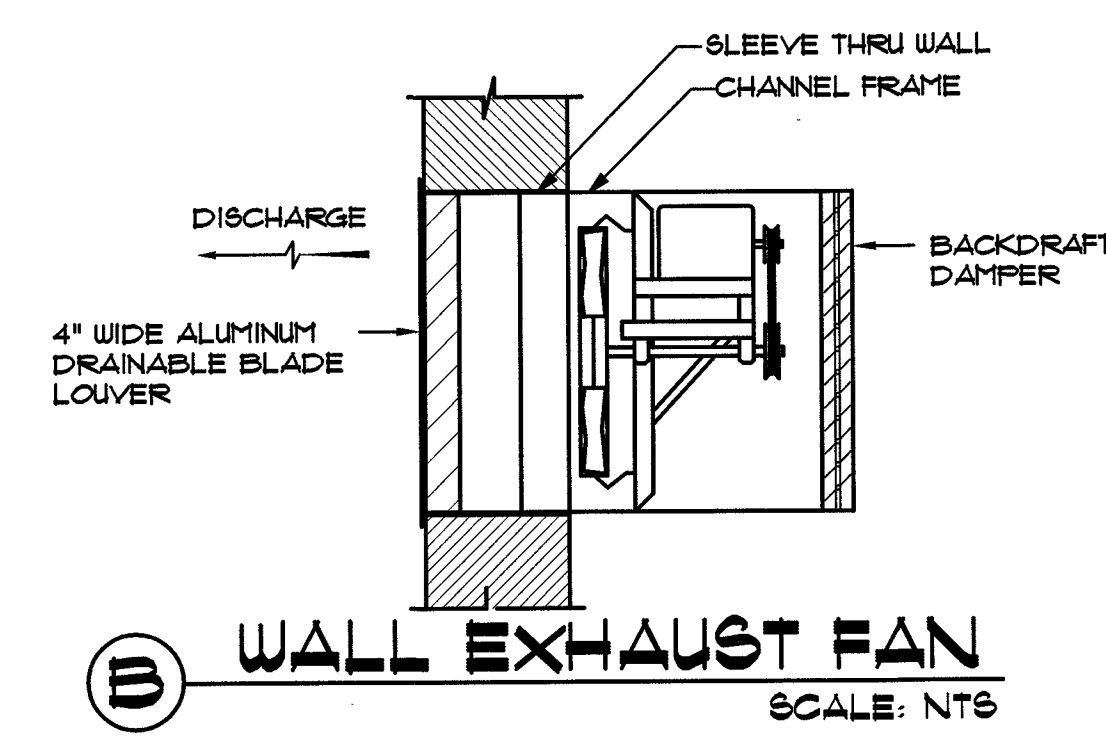
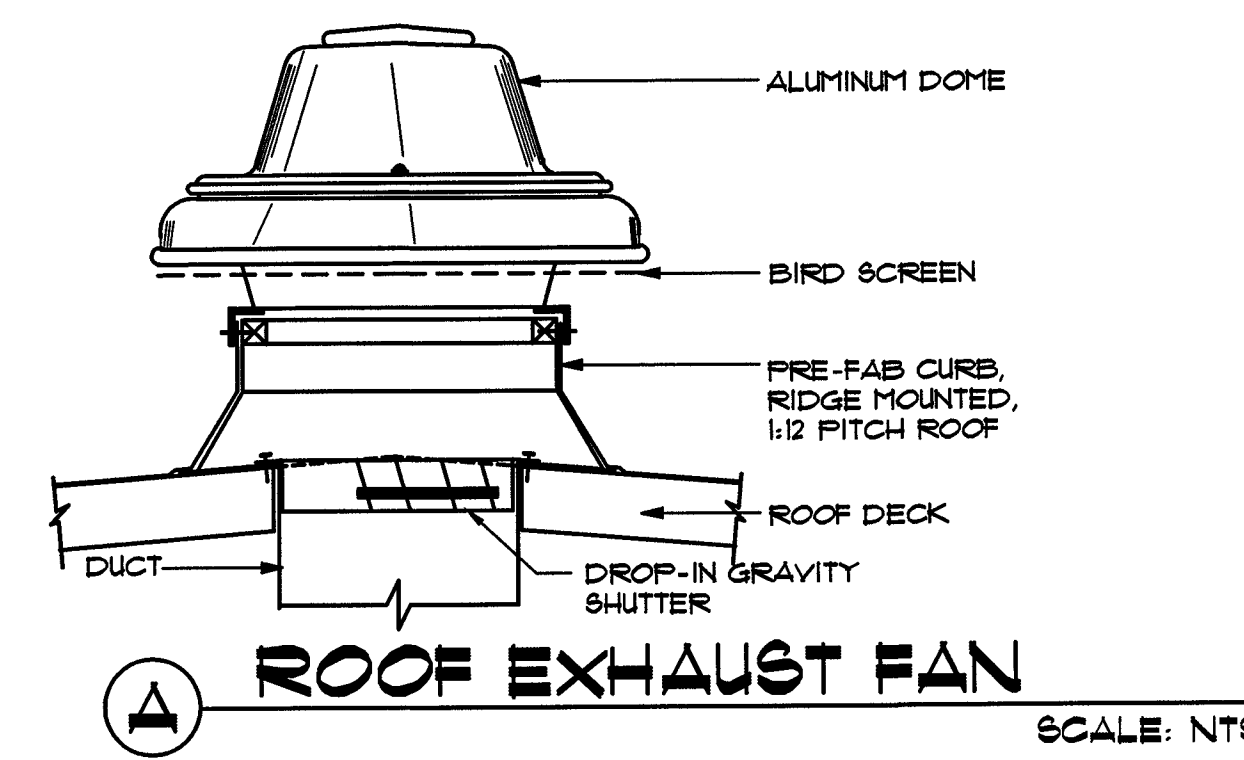
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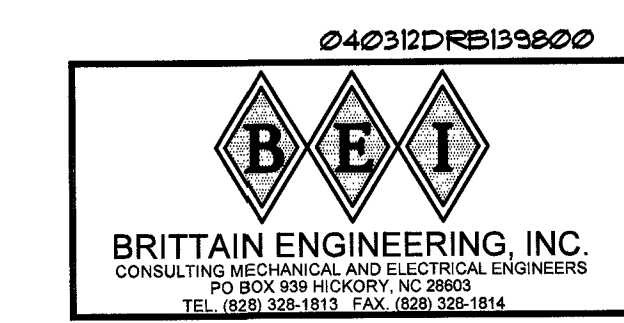
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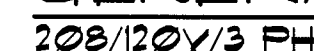




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PANEL MDP

CONNECTED LOAD (KVA)	GROSS	USE	NET
LIGHTING	12.5	90%	11.3
RECEPTACLES	11.0	10%	1.1
HVAC	22.8	75%	16.9
WATER HEATER	4.5	50%	2.3
KITCHEN	8.5	25%	2.1
DOOR OPENERS	1.4	25%	.3
SHOP EQUIPMENT	30.5	40%	12.2
AIR COMPRESSORS	21.0	65%	13.7
TOTAL	112.1	53%	89.1
GROSS PHASE TOTALS (KVA)	A = 51.6	B = 51.6	C = 51.6

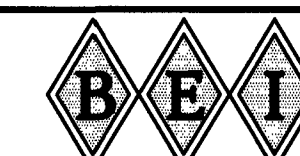


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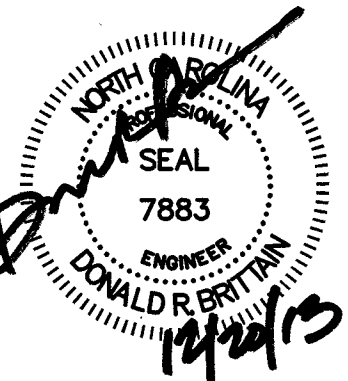
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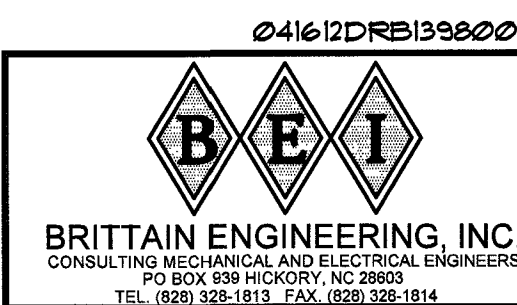
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OCCUPANCY SENSOR LEGEND

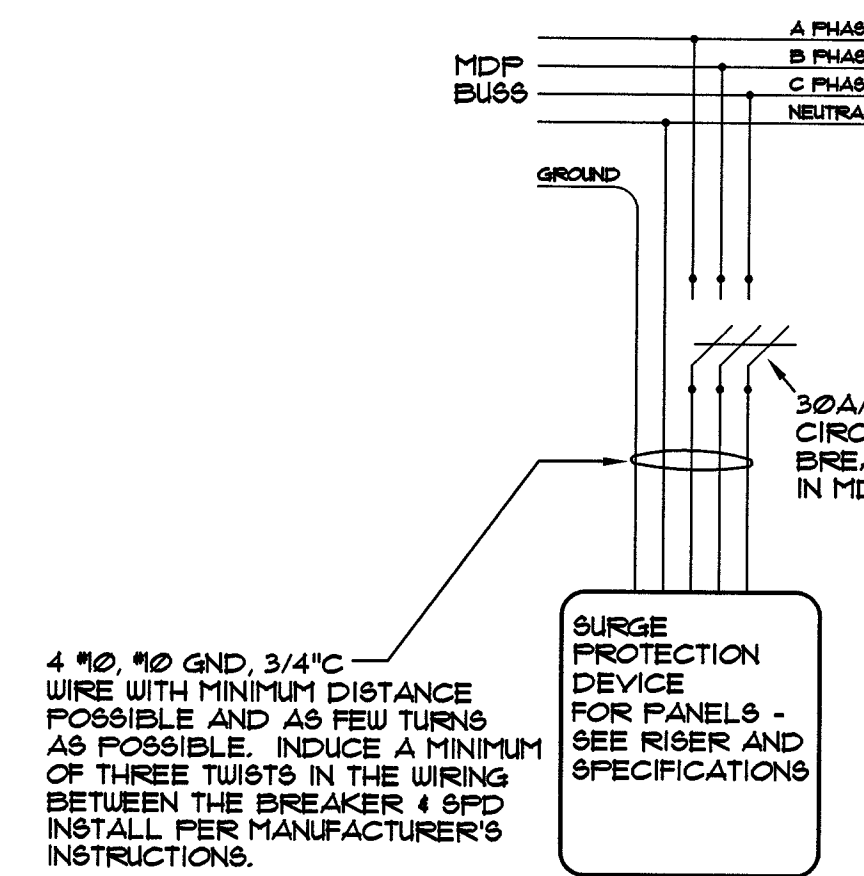
SYMBOL	DESCRIPTION
	CEILING OCCUPANCY SENSOR - THE BASIS OF DESIGN IS THE HUBBELL "CONDT2020".
	UNIVERSAL VOLTAGE POWER PACK - THE BASIS OF DESIGN IS THE HUBBELL "UVFP".
	WALL MTD CLG OCCUPANCY SENSOR - THE BASIS OF DESIGN IS THE HUBBELL "MODA".
	WALL SWITCH OCCUPANCY SENSOR - THE BASIS OF DESIGN IS THE HUBBELL "LHMTD1".

GENERAL NOTES:

- CEILING MOUNTED SENSORS SHALL BE MOUNTED A MINIMUM OF 4'-0" FROM ALL HVAC SUPPLY AND RETURN GRILLES.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS. REFER TO MANUFACTURER'S INSTRUCTIONS.
- SENSORS MOUNTED OVER DOORS SHALL BE PLACED A MINIMUM OF 12" INSIDE OF THRESHOLD.
- CONTRACTOR SHALL INSTALL ALL DEVICES AS PER THE MANUFACTURER'S RECOMMENDATIONS.
- "H" & "HW" HAVE INTEGRAL OCCUPANCY SENSORS.

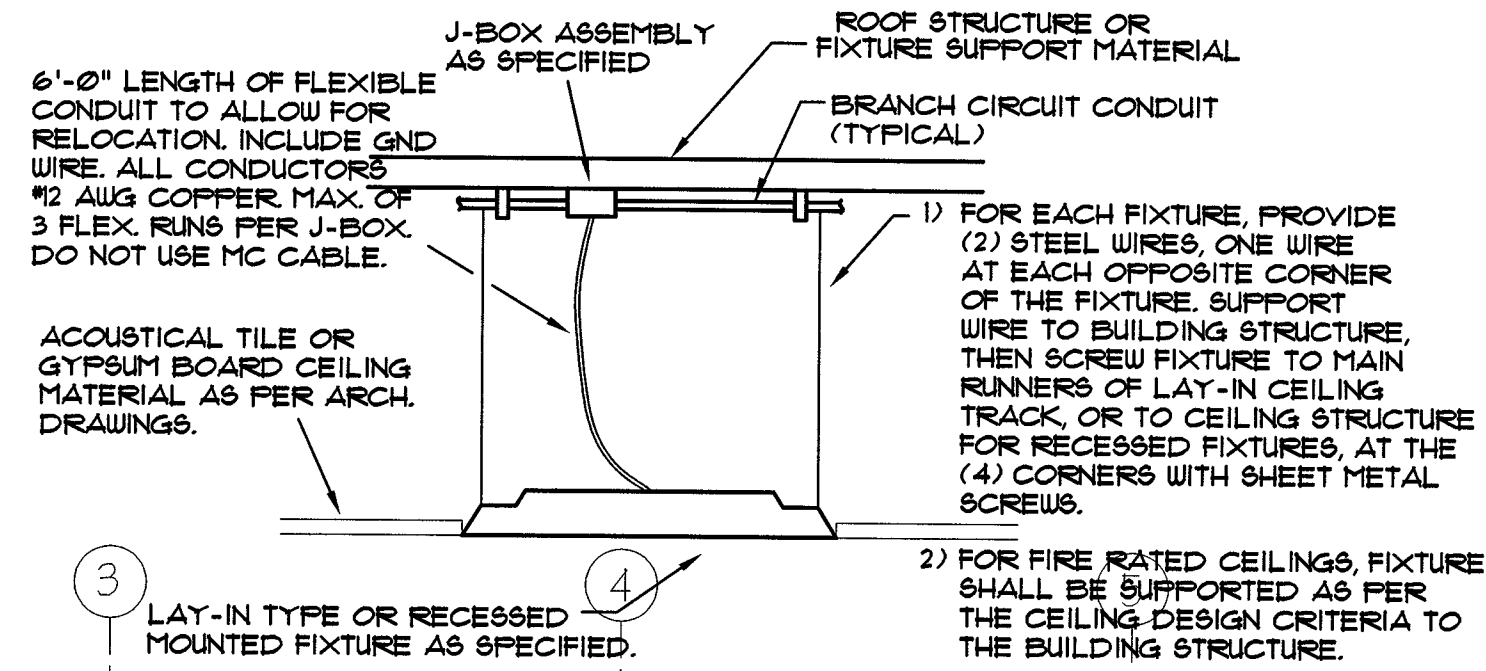
NOTE:
THE INTENT OF THE OWNER IS THAT THE OCCUPANCY SENSORS SHALL TURN THE LIGHTS ON & OFF. HOWEVER, THE SWITCHES SHOWN ARE TO ALLOW THE OCCUPANT A MEANS OF OVERRIDING THE OCCUPANCY SENSORS & TURNING THE LIGHTS "OFF" WHEN REQUIRED.

NOTES:
COORDINATE EXACT LOCATIONS AND HEIGHTS OF THE EXTERIOR LIGHT FIXTURES WITH THOSE SHOWN ON THE ARCHITECTURAL ELEVATIONS ON SHEET A4.



SPD CONNECTION NTS

NOTE:
THERE NO HAZARDOUS CLASSIFIED AREAS IN THE FACILITY AS DETERMINED BY THE OWNER/ARCHITECT BASED ON THE FACILITY USAGE AS "MINOR REPAIR" MAINTENANCE FACILITY.



TYPICAL RECESSED LIGHT FIXTURE MOUNTING DETAIL SCALE: NONE

NOTE:
CONNECT ALL EMERGENCY AND EXIT FIXTURES TO THE NEAREST LIGHTING CIRCUIT IN THE AREA IN WHICH IT SERVES.

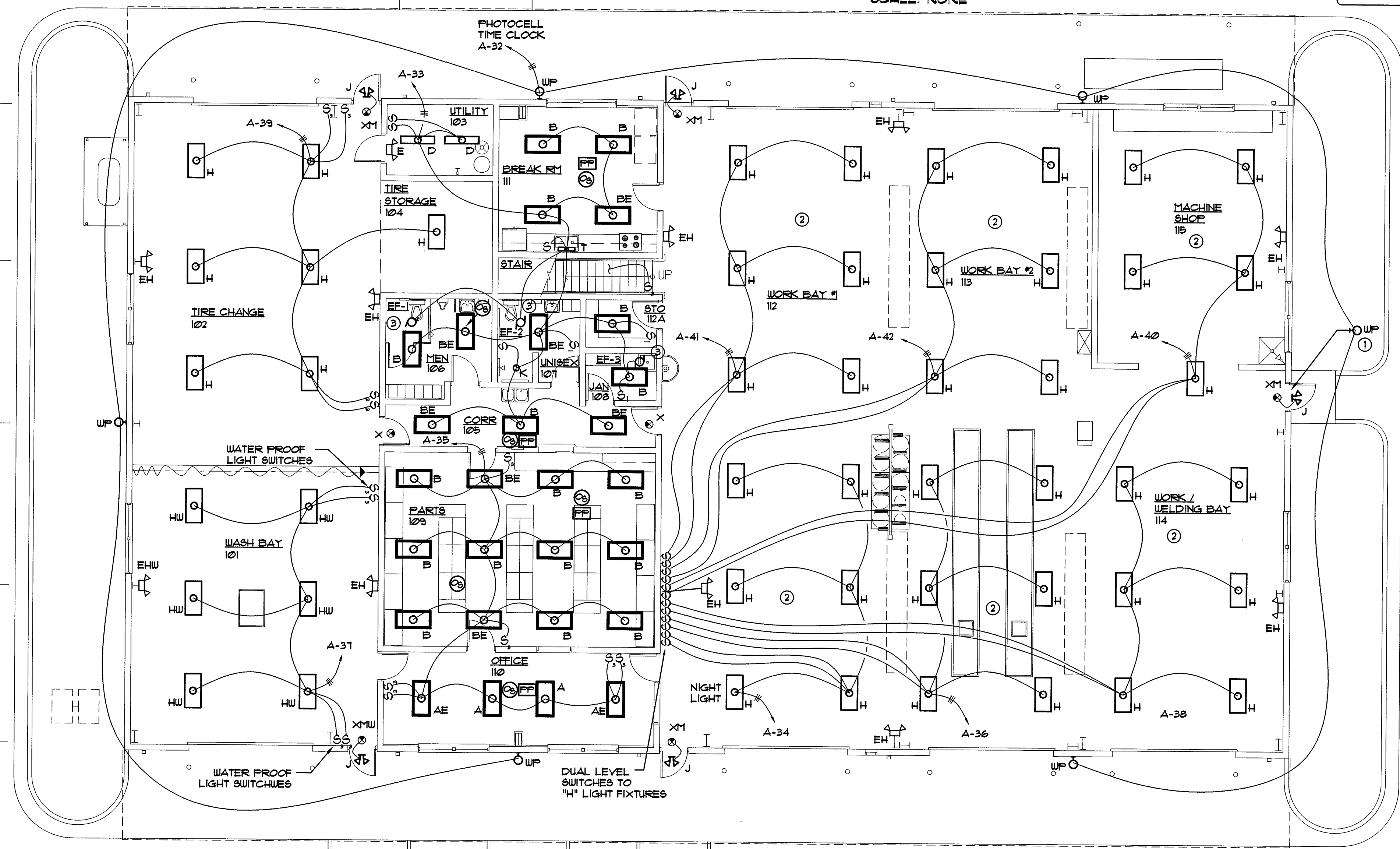
NOTE:
ALL CONDUCTORS INCLUDING LOW VOLTAGE CONDUCTORS SHALL BE IN RACEWAY.

NOTE:
AN EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED FOR ALL POWER BRANCH CIRCUITS (INCLUDING THOSE IN METALLIC RACEWAYS) AND SIZED IN ACCORDANCE WITH NEC TABLE 250-122.

NOTE:
ALL MULTI CIRCUIT CONDUIT RUNS SHALL HAVE INDIVIDUAL DEDICATED NEUTRALS FOR EACH CIRCUIT PER 210.4(B) OF THE 2008 NEC.

NOTE:
PLACE PHOTOCELL ON NORTH SIDE OF BUILDING FOR OPTIMUM OPERATION.

NOTE:
TIME CLOCK MUST BE ELECTRONICALLY PROGRAMMABLE ABLE TO SCHEDULE MULTIPLE EVENTS EACH DAY AND OPERATE 24/7/365.



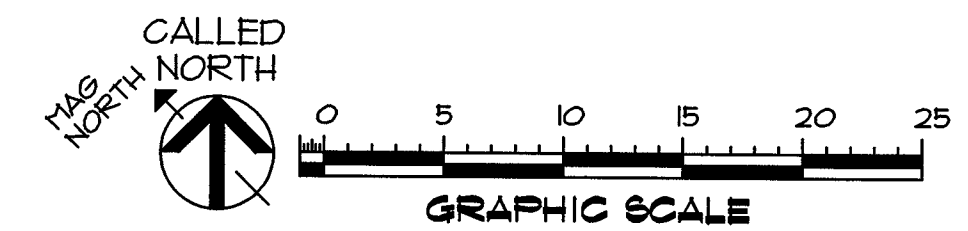
- NOTES:**
- 1) CENTER LIGHT FIXTURE "UP" OVER THE EXIT DOOR AND EMERGENCY LIGHT "U" SIMILAR TO THAT SHOWN ON ARCHITECTURAL ELEVATION DTL D2, SHT A5.
 - 2) LIGHT FIXTURES IN WORKBAYS 114, 115, 116, 117 & 118 MUST BE POSITIONED AT LEAST 1" CLEARANCE ABOVE TRAVELING BRIDGE BEAM CRANE. SEE DTL A3, SHT A6.
 - 3) CONNECT EF-1, EF-2 AND EF-3 TO THE MOTION SENSOR IN THE HVAC GRILLE IN THEIR RESPECTIVE ROOMS. MOTION SENSOR & GRILLE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

NOTES:
DUE TO THE OVERHEAD MOVABLE CRANE, ALL CIRCUITS MUST BE ROUTED UNDER CONCRETE SLAB IN THESE AREAS: WORK BAY 112, 113, 114 AND MACHINE SHOP 115. BECAUSE OF CONFLICT WITH THE CRANE, THERE CAN BE NO CIRCUITS ROUTED OVERHEAD AND THEN DROPPED DOWN TO REACH THEIR INTENDED EQUIPMENT IN THESE AREAS. THE CIRCUITS OBVIOUSLY AFFECTED ARE THOSE IN THE MACHINE SHOP 115 TO PANEL "D" AND THOSE IN THE MIDDLE OF THE WORK BAYS 112 AND 113 TO PANELS "C" AND "D".

CONDUITS TO SWITCHES, THERMOSTATS & DISCONNECTS CANNOT BE EXPOSED IN THE OFFICE /PARTS/BREAK AREAS AND MUST BE INSTALLED INSIDE OF THE CMU WALLS. CONDUITS IN THE SHOP AREAS CAN BE EXPOSED ON THE CMU WALLS.

FLOOR PLAN - LIGHTING

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



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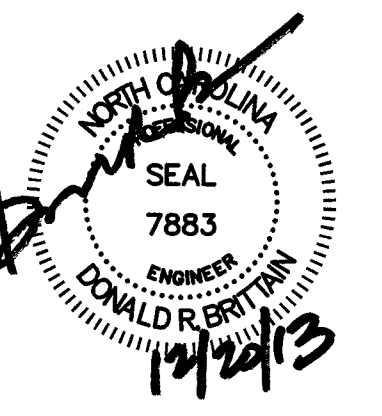
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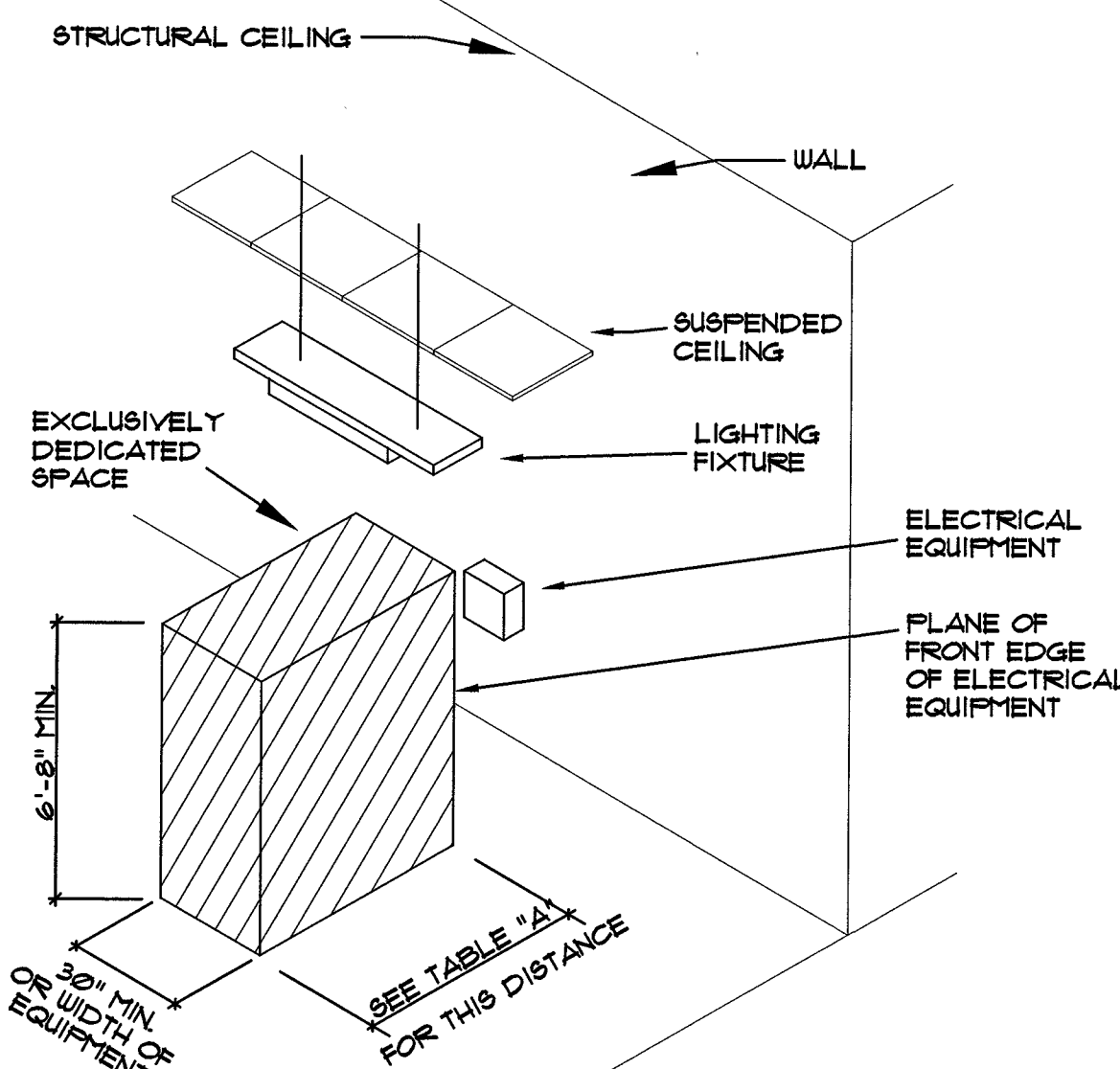
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WHERE THE "CONDITIONS" ARE AS FOLLOWS

1. EXPOSED LIVE PARTS ON ONE SIDE THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
2. EXPOSED LIVE PARTS ON ONE AND GROUNDED PARTS ON THE OTHER.
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKSPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.



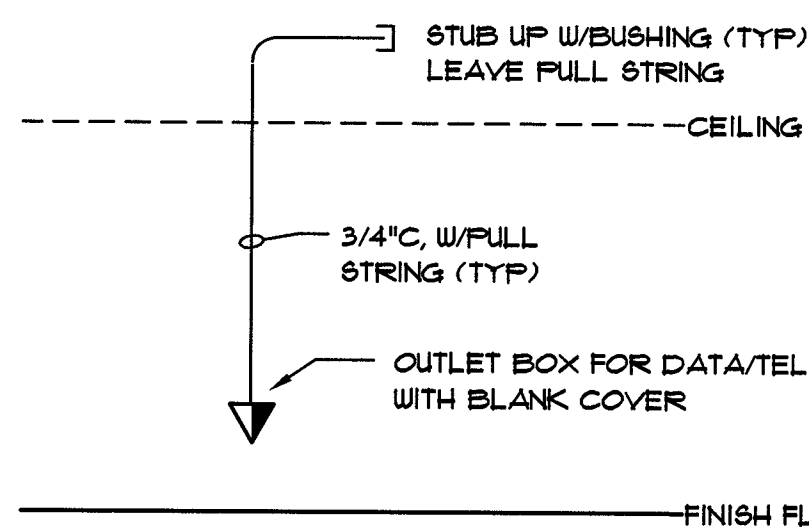
NOTE:
THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT REQUIRED BY NEC SECTION 110-26.

TABLE A - CLEARANCES

VOLTAGE TO GND NOMINAL	MINIMUM CLEAR DISTANCE (1)		
	CONDITION: 1	2	3
0 - 150	3	3	3
151 - 600	3	3.5	4

CLEARANCES FOR ELECTRICAL EQUIPMENT

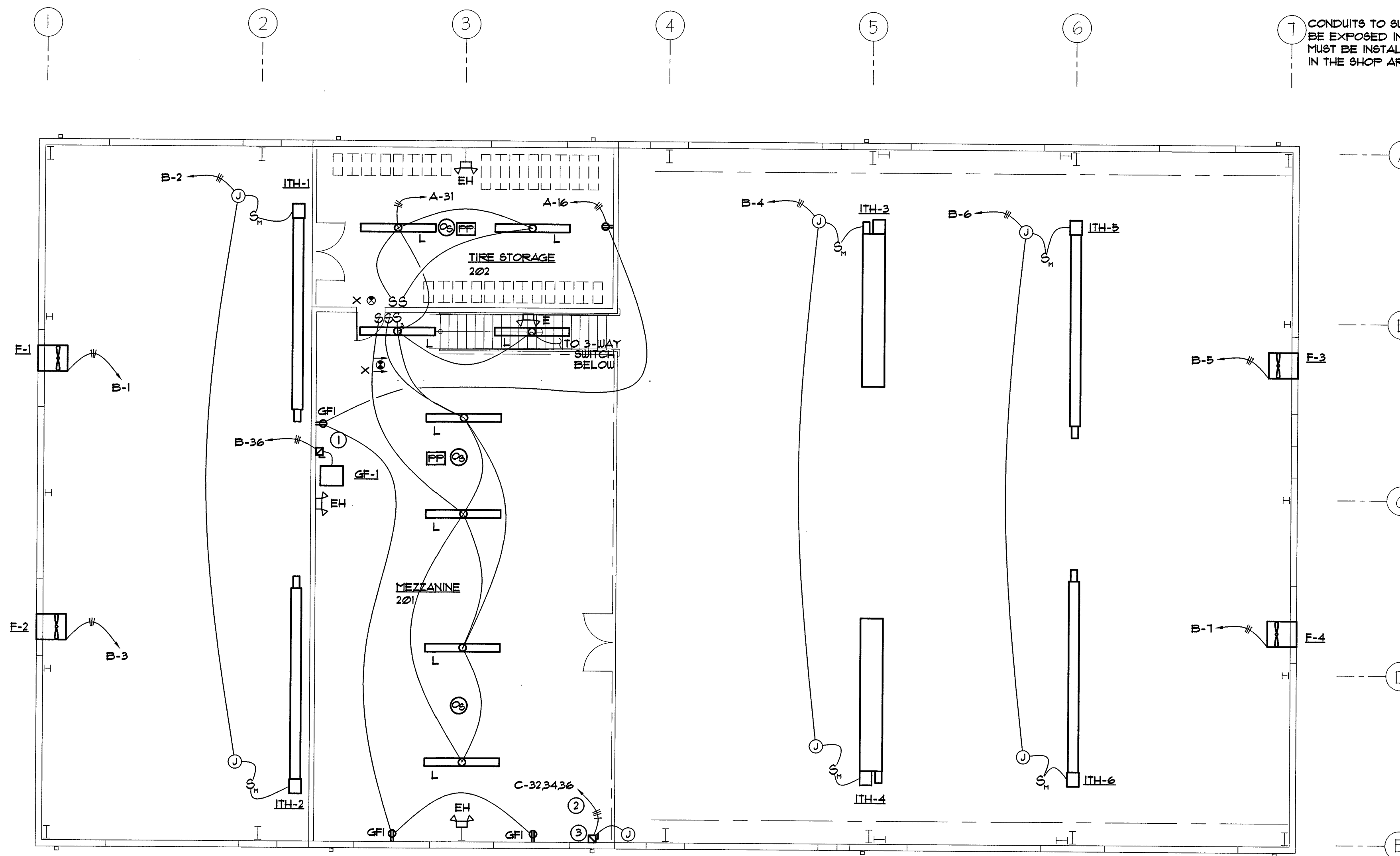
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TELEPHONE & COMPUTER COMBINATION OUTLET DETAIL

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NOTE:
THIS DETAIL ALSO APPLIES WHEN ONLY THE TELEPHONE OUTLET WITHOUT THE COMPUTER CONNECTION IS REQUIRED.



NOTE:
THERE NO HAZARDOUS CLASSIFIED AREAS IN THE FACILITY AS DETERMINED BY THE OWNER/ARCHITECT BASED ON THE FACILITY USAGE AS "MINOR REPAIR" MAINTENANCE FACILITY.

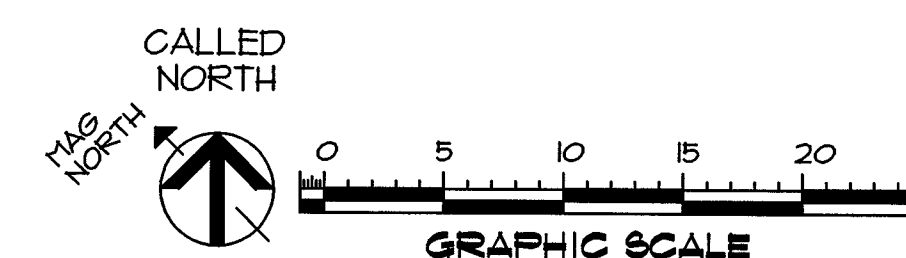
MEZZANINE FLOOR PLAN - POWER & LIGHTING

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

NOTES:

- 1 250/30/11/5N FUSE FOR UNIT
- 2 3 1/2, 1/2 GND, 1/2 C
- 3 250/30/3 FUSE FOR UNIT. LOCATE THE FUSED DISCONNECT ON THE WALL AT NORMAL STANDING HEIGHT ON MEZZANINE FLOOR LEVEL AND USE RIGID CONDUIT FOR CONNECTION TO ELECTRIC CRANE RAIL OR JUNCTION BOX. THIS FD MUST BE CAPABLE OF BEING LOCKED IN THE "ON" POSITION.

NOTE:
CONNECT ALL EMERGENCY AND EXIT FIXTURES TO THE NEAREST LIGHTING CIRCUIT IN THE AREA IN WHICH IT SERVES.



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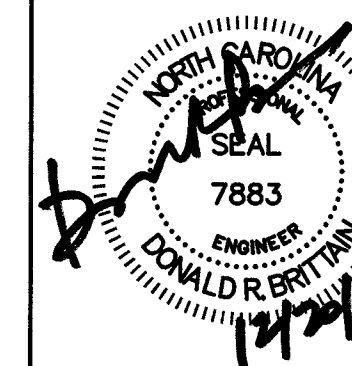
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NOTES:
DUE TO THE OVERHEAD MOVABLE CRANE, ALL CIRCUITS MUST BE ROUTED UNDER CONCRETE SLAB IN THESE AREAS: WORK BAY 112, 113, 114 AND MACHINE SHOP 115. BECAUSE OF CONFLICT WITH THE CRANE, THERE CAN BE NO CIRCUITS ROUTED OVERHEAD AND THEN DROPPED DOWN TO REACH THEIR INTENDED EQUIPMENT IN THESE AREAS. THE CIRCUITS OBVIOUSLY AFFECTED ARE THOSE IN THE MACHINE SHOP 115 TO PANEL "D" AND THOSE IN THE MIDDLE OF THE WORK BAYS 112 AND 113 TO PANELS "C" AND "D".

CONDUITS TO SWITCHES, THERMOSTATS & DISCONNECTS CANNOT BE EXPOSED IN THE OFFICE /PARTS/RR/BREAK AREAS AND MUST BE INSTALLED INSIDE OF THE CMU WALLS. CONDUITS IN THE SHOP AREAS CAN BE EXPOSED ON THE CMU WALLS.

MARK	TYPE
A	2' x TROC
AE	2' x EME TROC
B	2' x TROC
BE	2' x EME TROC
D	4' in FLUX
E	DEC EME TROC
EH	HI C FIVE

PANEL B

GROSS PHASE TOTALS (KVA) A = 15.7 B = 15.7 C = 15.7

J	EGR INCAL
L	8' 5" HVT FLUC
T	2' TA LIGH
X	THE EXIT
XZ	THE HI C
XZW	THE HI C WET
WP	WALL FACI

PANEL C

GROSS PHASE TOTALS (KVA) A = 211 B = 211 C = 211

	130
	050
	420
	030
	100

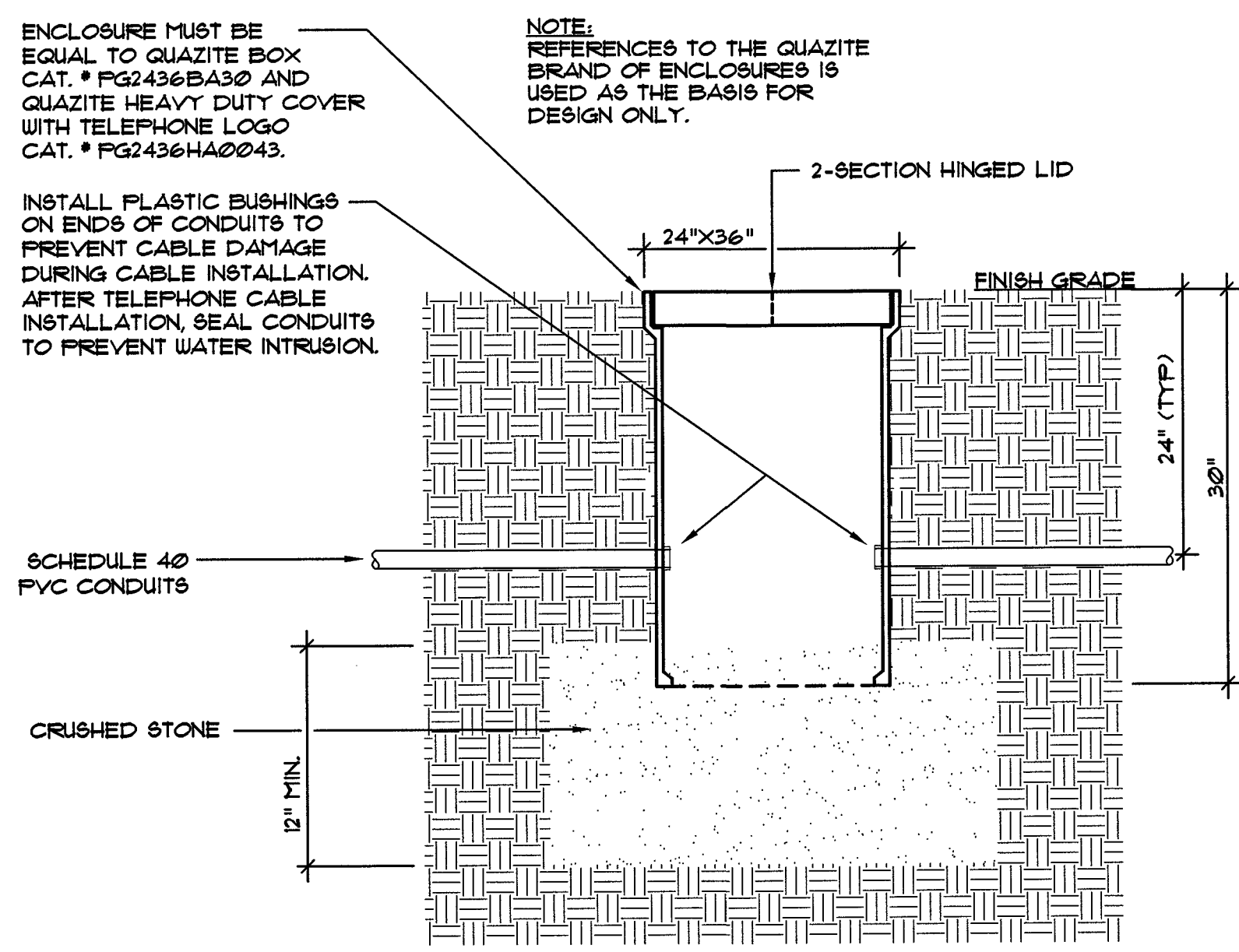
PANEL D

GROSS PHASE TOTALS (KYA) A = 14.1 B = 14.1 C = 14.1

						LOAD		
						KVA OR KW		
CCT NO.	BRKR. RATING	WIRE SIZE	GND	COND. #1	DESIGNATION TYPED ON DIRECTORY	A	B	C
2	20	12	12	1/4"	RECEPTACLES	0.34		
4							0.34	
6								0.34
8						0.72		
10							0.64	
12								0.32
14						0.72		
16	↓	↓	↓	↓	↓	MEZZANINE	0.30	
18	30	12	12		↓	WATER HEATER		2.25
20	↓	↓	↓	↓			2.25	
22	20				↓	SQUARE		
24								
26								
28								
30					↓			
32		12	12	1/4"	LIGHTING	0.65		
34					WORK BAY 14, NO. 17		1.00	
36					WORK BAY 15, NO. 18			1.00
38					WORKBELLING BAY, NO. 14	1.00		
40					MACHINE SHOP, NO. 15		0.85	

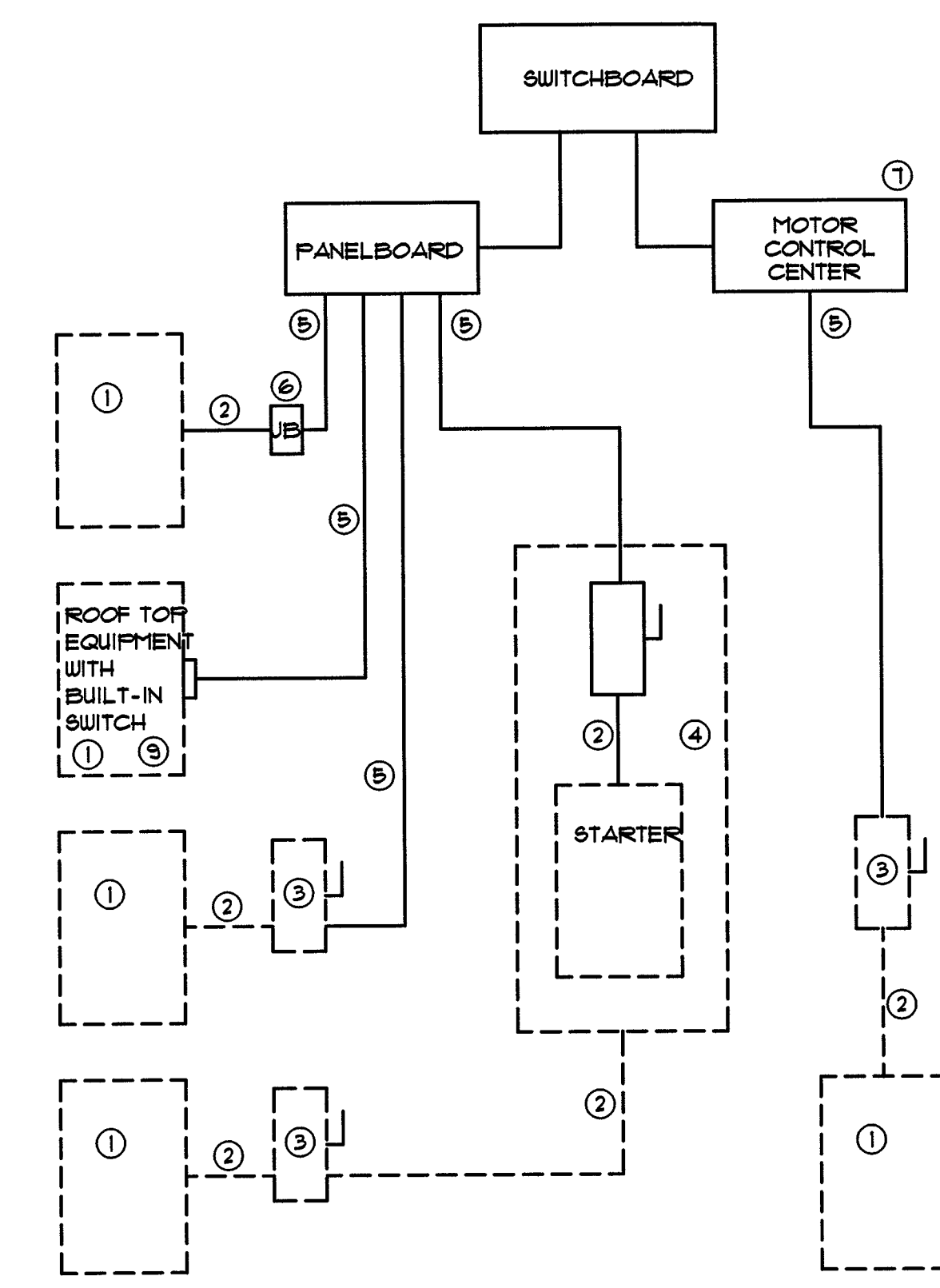
PANEL A

GROSS PHASE TOTALS (KVA) A = 11.7 B = 11.7 C = 11.7

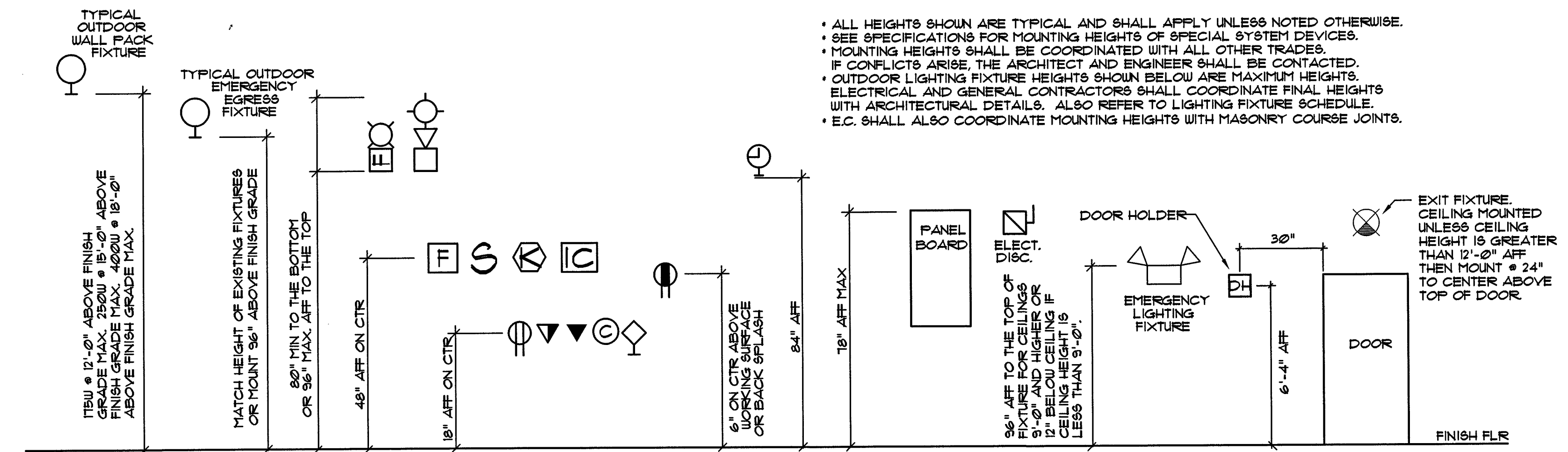


TELEPHONE ENCLOSURE DETAIL
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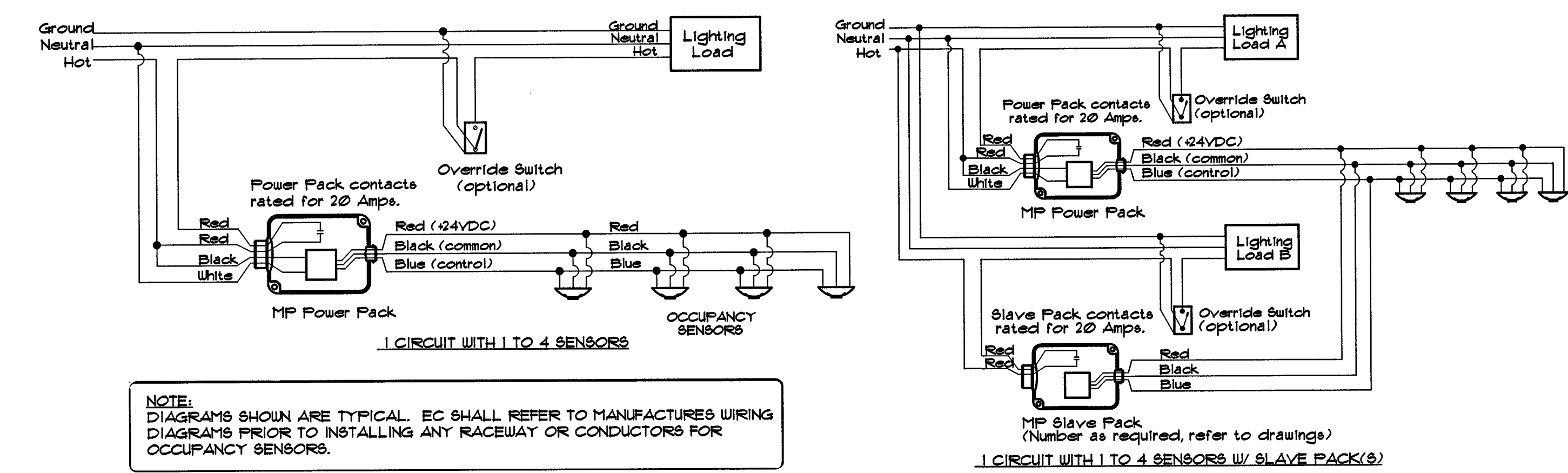
- ELECTRICAL NOTES**
- EQUIPMENT OF TRADES OTHER THAN ELECTRICAL
 - CONDUIT & WIRING BY HVAC, PLUMBING CONTRACTOR OR OTHER TRADES
 - IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR
 - A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER LOCATE ADJACENT TO EQUIPMENT.
 - FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
 - JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT. IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY THE MECHANICAL CONTRACTOR OR OTHER TRADES.
 - PROJECTS UTILIZING AN MCC, THE STARTER, CB, OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR
 - IN ALL CASES, THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP AND TEST EQUIPMENT.
 - IF THE ROOF TOP EQUIPMENT IS NOT PROVIDED WITH A BUILT-IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.
 - WHERE ELECTRICAL WIRING IS REQUIRED BY TRADES OTHER THAN COVERED BY DIVISION 16, THE INSTALLER SHALL REFER TO THE WIRING MATERIALS AND METHODS AS SPECIFIED UNDER DIVISION 16, NO EXCEPTIONS.



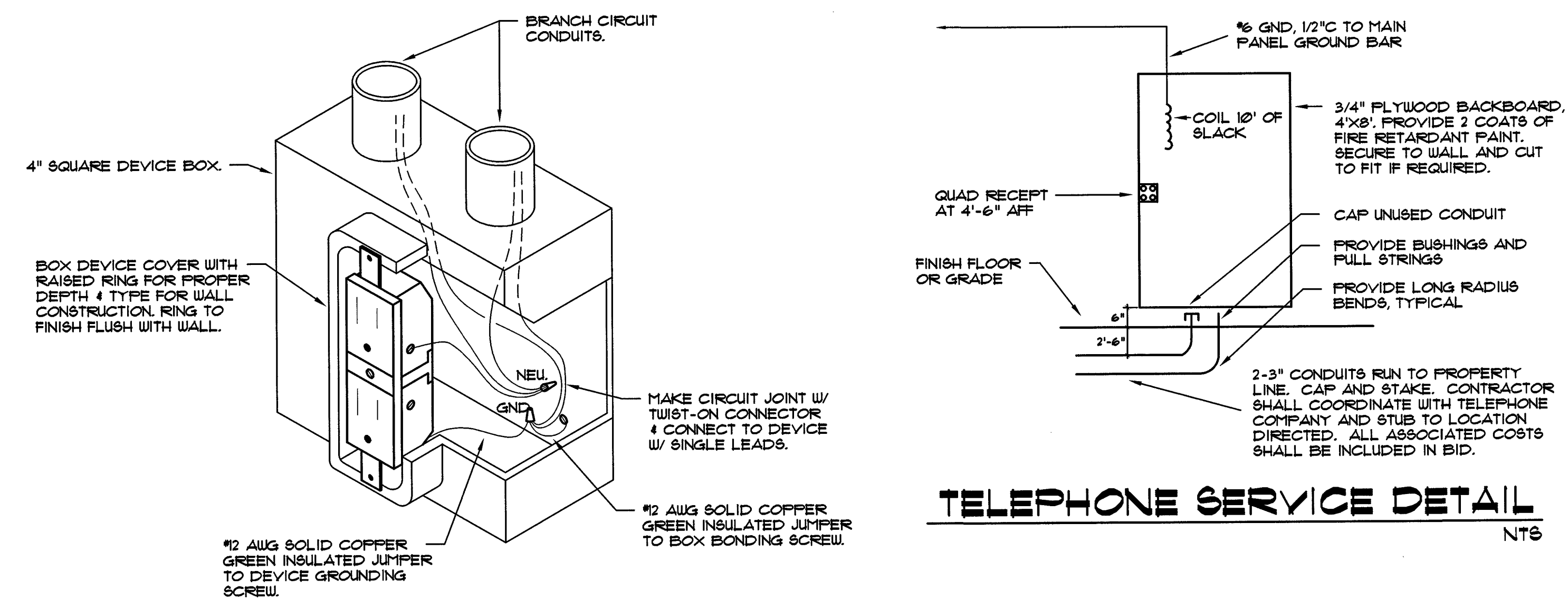
TYPICAL EQUIPMENT CONNECTION
NTS



TYPICAL MOUNTING HEIGHT DETAILS
NTS

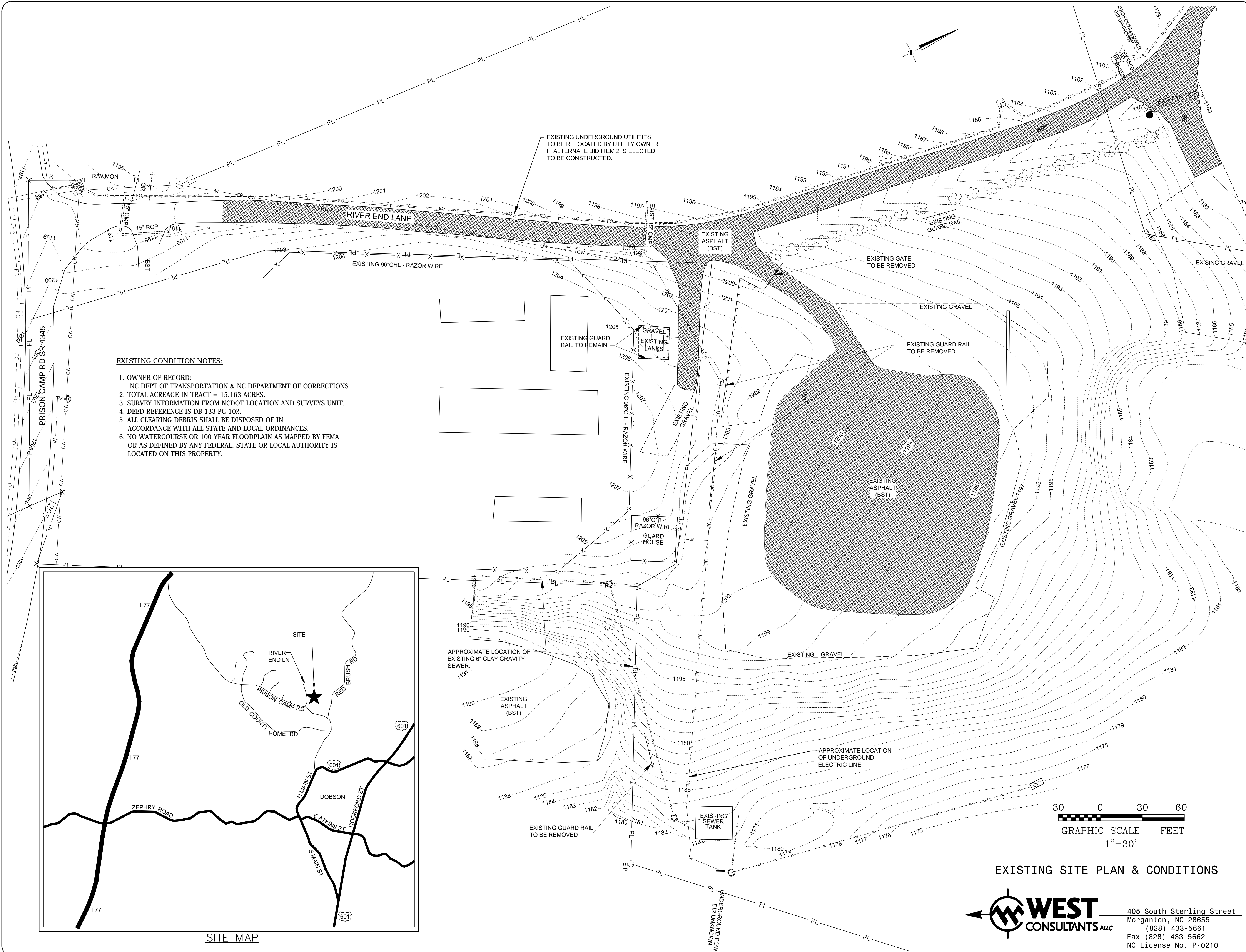


TYPICAL OCCUPANCY SENSOR WIRING DIAGRAMS
NTS

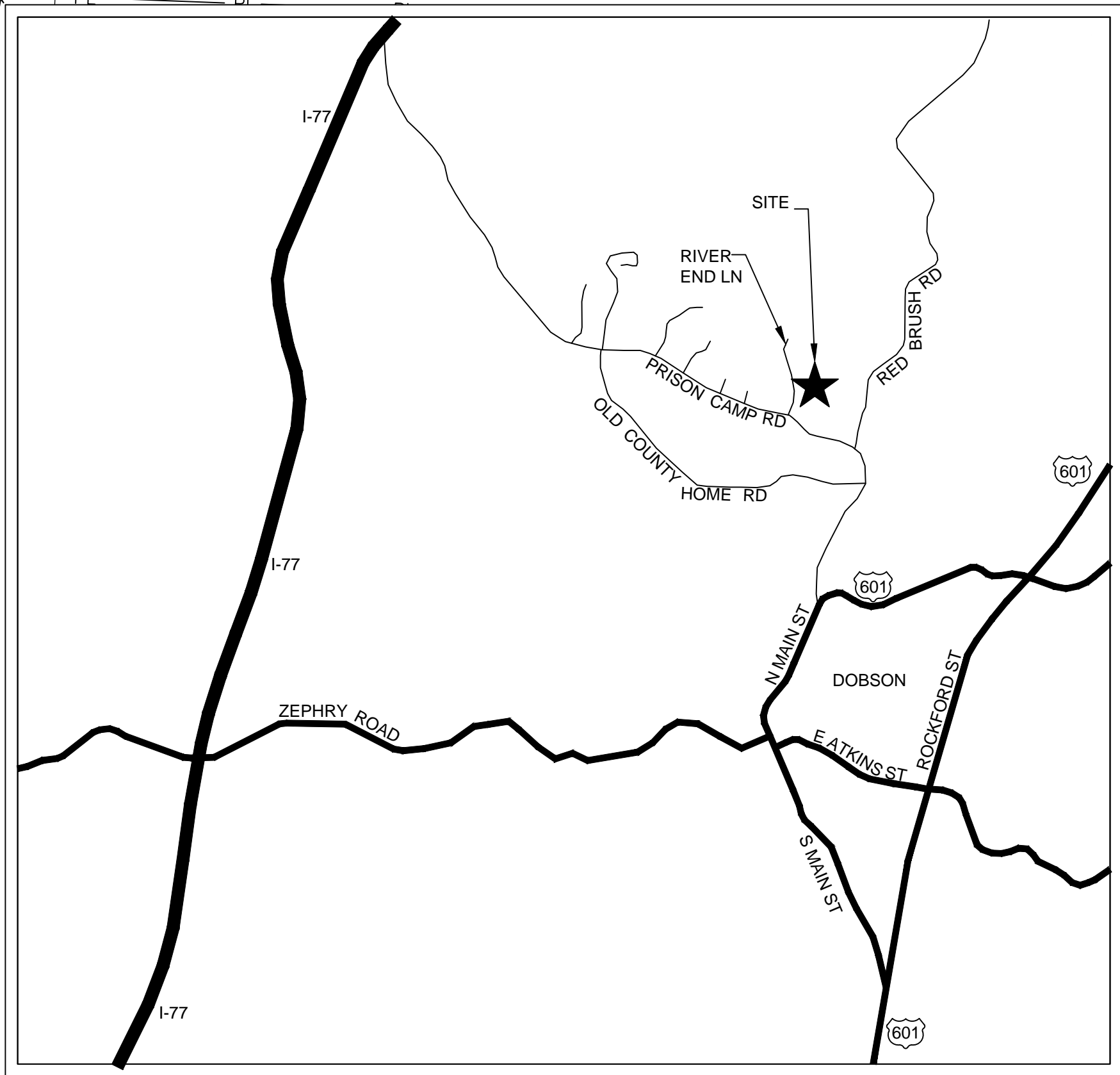


TELEPHONE SERVICE DETAIL
NTS

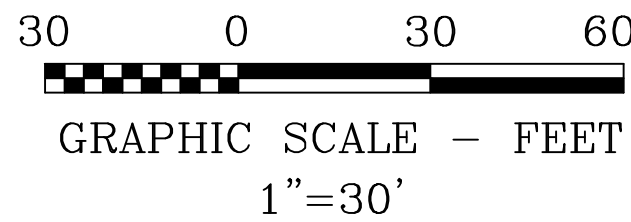
RECEPTACLE GROUNDING DETAIL
NTS



- EXISTING CONDITION NOTES:**
1. OWNER OF RECORD:
NC DEPT OF TRANSPORTATION & NC DEPARTMENT OF CORRECTIONS
 2. TOTAL ACREAGE IN TRACT = 15.163 ACRES.
 3. SURVEY INFORMATION FROM NCDOT LOCATION AND SURVEYS UNIT.
 4. DEED REFERENCE IS DB 133 PG 102.
 5. ALL CLEARING DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL STATE AND LOCAL ORDINANCES.
 6. NO WATERCOURSE OR 100 YEAR FLOODPLAIN AS MAPPED BY FEMA OR AS DEFINED BY ANY FEDERAL, STATE OR LOCAL AUTHORITY IS LOCATED ON THIS PROPERTY.



SITE MAP



EXISTING SITE PLAN & CONDITIONS



405 South Sterling Street
Morganton, NC 28655
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Fax (828) 433-5662
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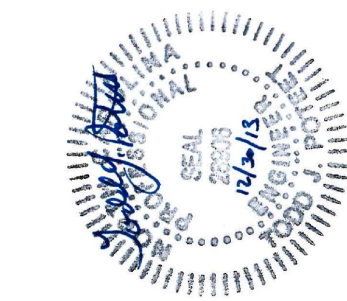
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DATE :09-09-2013

C1 OF

DOBSON EQUIPMENT SHOP

HIGHWAY DIVISION 11, NCDOT
SURRY COUNTY • NORTH CAROLINA



NCDOT LEVEL III DESIGNER

TODD J. POTEET, PE CERT. NUMBER:3162
EXPIRES: DECEMBER 31, 2014

GENERAL GRADING NOTES:

1. TOTAL DISTURBANCE AREA = 3.10 ACRES.
2. DEED REFERENCE IS DB 133 PG 102.
3. ALL CLEARING DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL STATE AND LOCAL ORDINANCES.
4. ALL CUT AND FILL SLOPES GREATER THAN 8' IN HEIGHT SHALL BE COVERED WITH NORTH AMERICAN GREEN LINER S 75 STAPLE PATTERN B OR APPROVED EQUAL.
5. A COPY OF THIS PLAN SHALL BE KEPT ON SITE.
6. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT NCDOT ROADSIDE ENVIRONMENTAL UNIT.
7. THE ROOF DRAIN PIPING SHALL BE HDPE OR SCHEDULE 40 PVC WITH A MINIMUM OF 2 FEET OF COVER.
8. ADDITIONAL FILL SOIL MAY BE OBTAINED ON SITE. THE BORROW AREA SHALL BE GRADED SMOOTH AND SEEDED WHEN COMPLETE.

CONSTRUCTION SEQUENCE AND MAINTENANCE PLAN:

A. CONSTRUCTION SEQUENCE:

1. PLACE GRAVEL CONSTRUCTION ENTRANCE.
2. CONSTRUCT SKIMMER BASIN, TEMPORARY DIVERSIONS AND INSTALL SILT FENCE.
3. GRADE PARKING AREA AND BUILDING SITE CONSTRUCTING BERM DITCHES AND TEMPORARY SLOPE DRAIN SIMULTANEOUSLY. INSTALL TEMPORARY ROCK SEDIMENT DAM, TYPE B WHEN AREA IS GRADED.
4. FERTILIZE, SEED, AND MULCH ALL DISTURBED AREAS WITHIN THE SOIL STABILIZATION TIME FRAME.

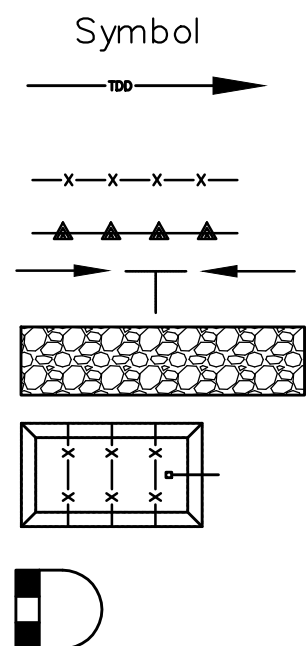
B. MAINTENANCE PLAN:

1. INSPECT ALL EROSION CONTROL DEVICES WEEKLY AND AFTER EACH RUN-OFF PRODUCING RAINFALL EVENT.
2. REMOVE ACCUMULATED SEDIMENT FROM BASINS WHEN HALF FULL AND REPAIR OR REPLACE STONE THAT HAS BEEN DISPLACED OR CONTAMINATED.
3. AFTER VEGETATION HAS BEEN ESTABLISHED, CHECK FOR ANY BARE SPOTS AND RE-SEED.
4. WHEN VEGETATION IS WELL ESTABLISHED AND APPROVED BY THE NCDOT, REMOVE ALL SILT FENCE AND SKIMMER BASINS, AND GRADE THOSE AREAS SMOOTH AND RE-SEED. (SKIMMERS WILL REMAIN THE PROPERTY OF THE CONTRACTOR.)

THE FOLLOWING ROADWAY ENGLISH STANDARDS APPEAR IN "ROADWAY STANDARD DRAWINGS"—ROADWAY DESIGN UNIT—N.C. DEPARTMENT OF TRANSPORTATION—RALEIGH, N.C., DATED JANUARY, 2012, AND THE LATEST REVISION THERETO ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE ARE HEREBY CONSIDERED PART OF THE PLANS THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description
1630.05	Temporary Diversion
1631.01	Matting Installation
1640.01	Coir Fiber Baffle
1605.01	Temporary Silt Fence
1622.01	Temporary Slope Drain With Berm
1607.01	Gravel Construction Entrance
	Skimmer Basin
1634.02	Temporary Rock Sediment Dam, Type B



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

EROSION CONTROL & GRADING PLAN



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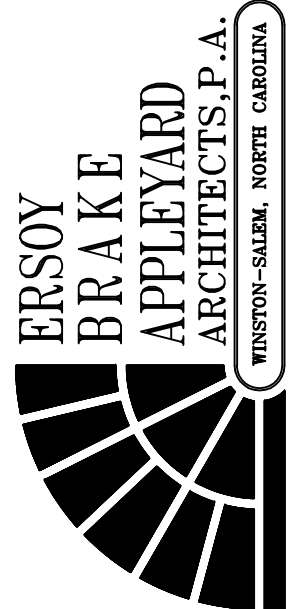
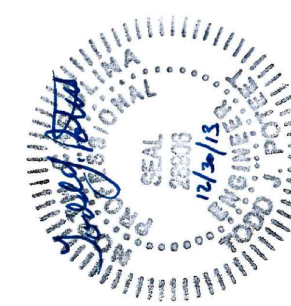
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OF

DOBSON EQUIPMENT SHOP

HIGHWAY DIVISION 11, NCDOT
SURRY COUNTY • NORTH CAROLINA



DOBSON EQUIPMENT SHOP
HIGHWAY DIVISION 11, NCDOT
SURRY COUNTY • NORTH CAROLINA

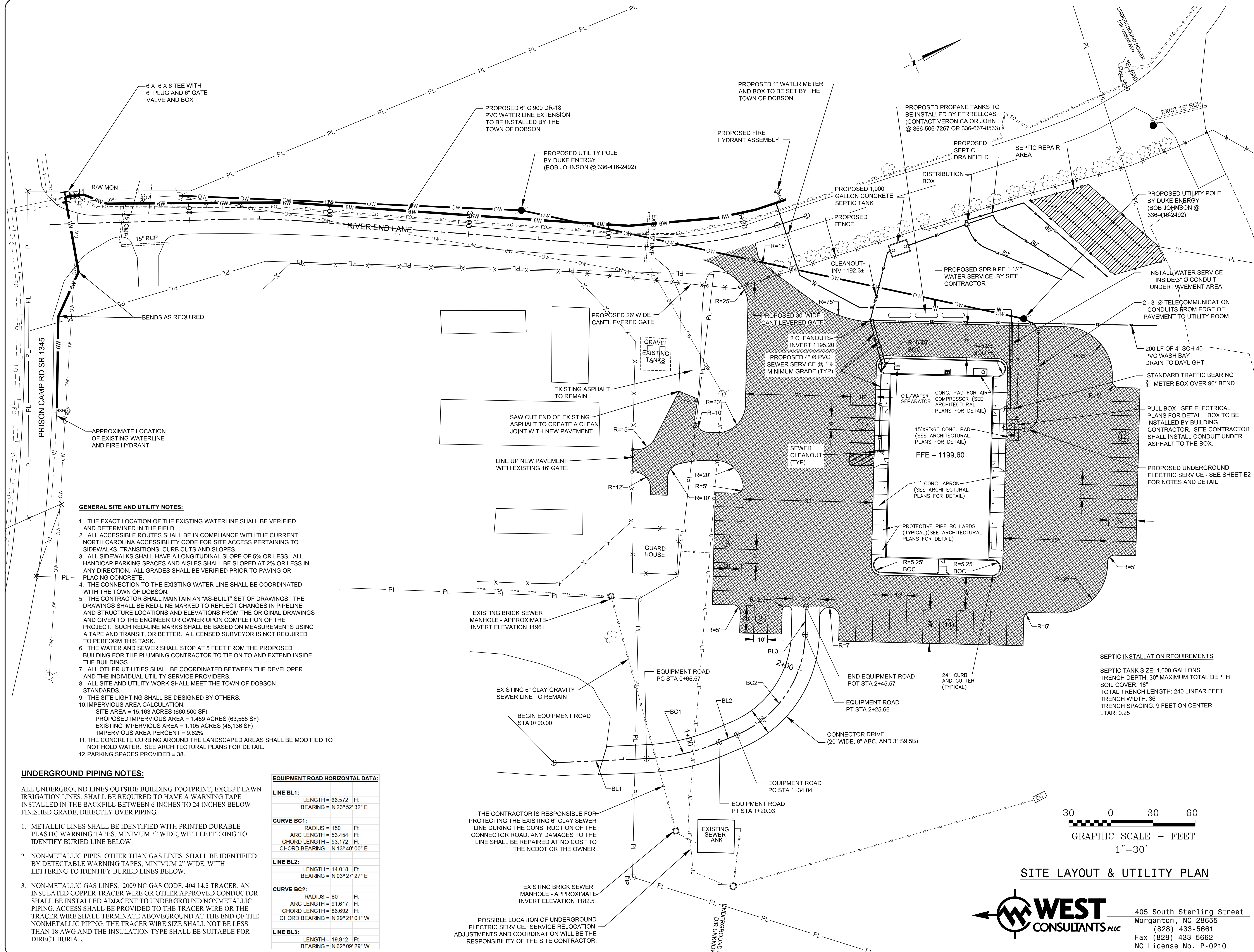
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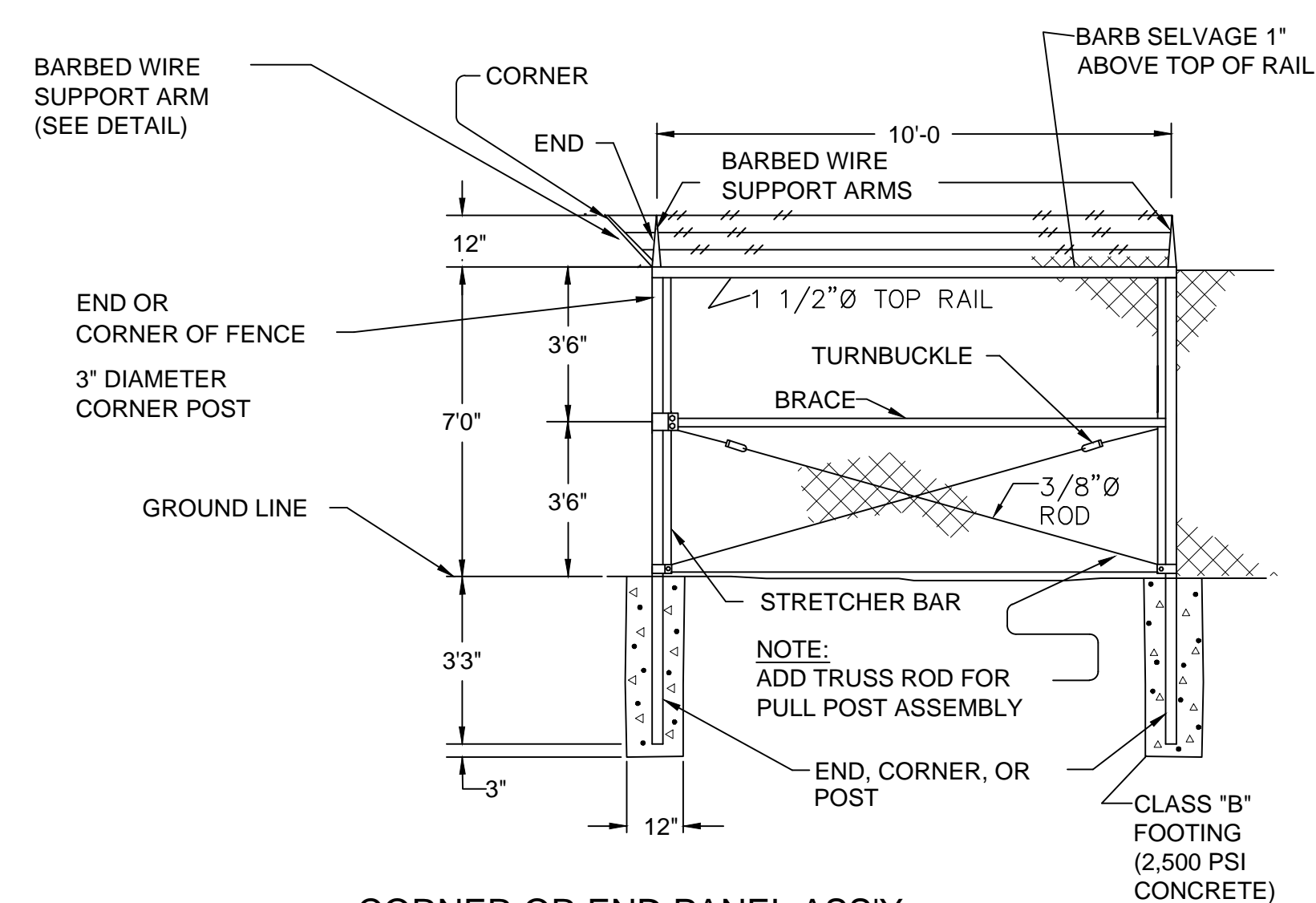
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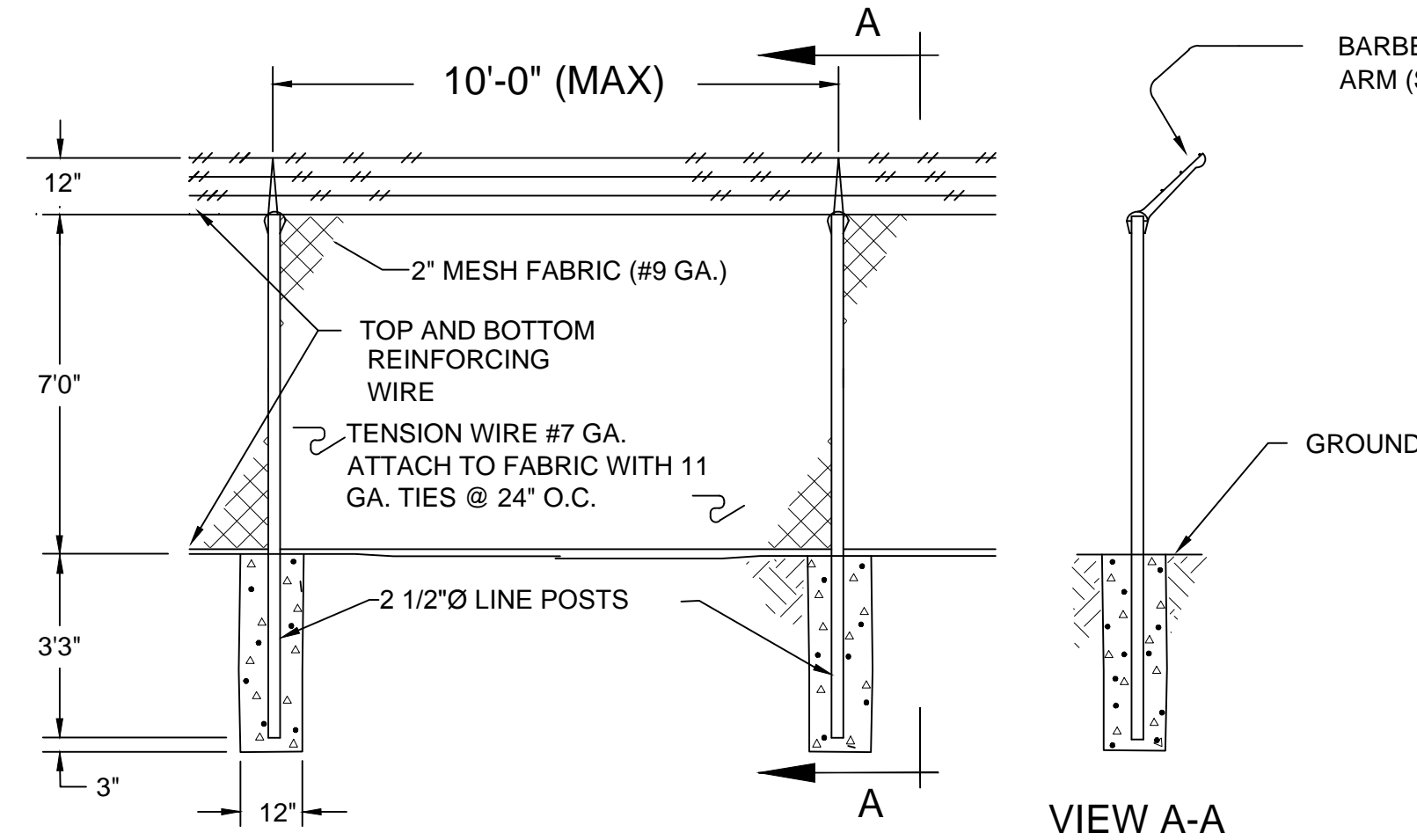
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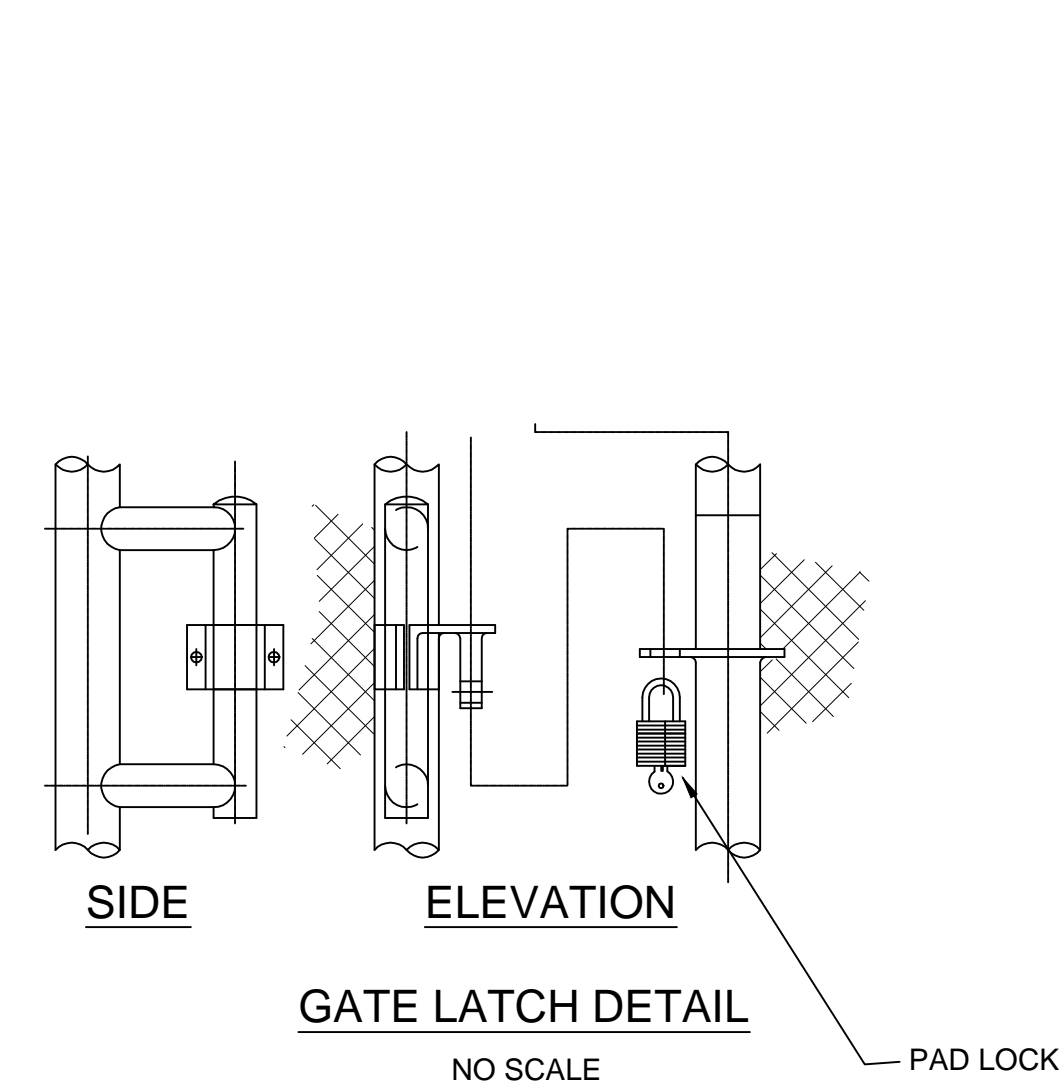
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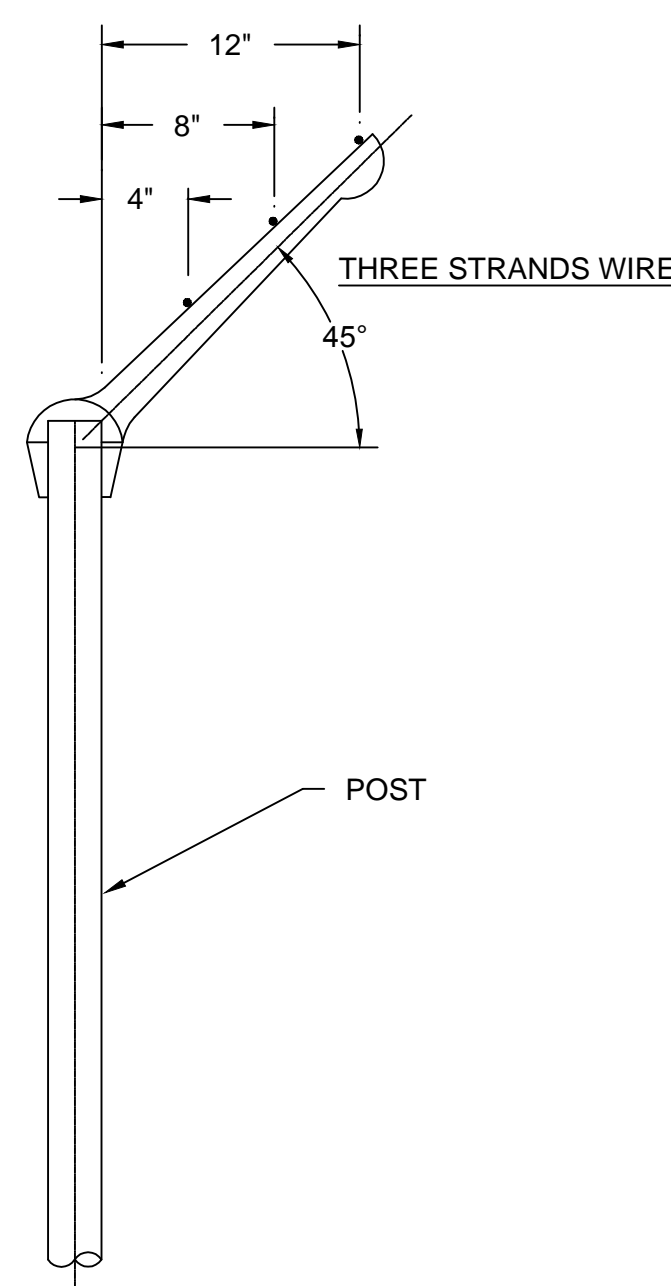
**CORNER OR END PANEL ASS'Y
PULL POST ASS'Y SIMILAR**
SCALE: NTS (EXCEPT AS INDICATED)



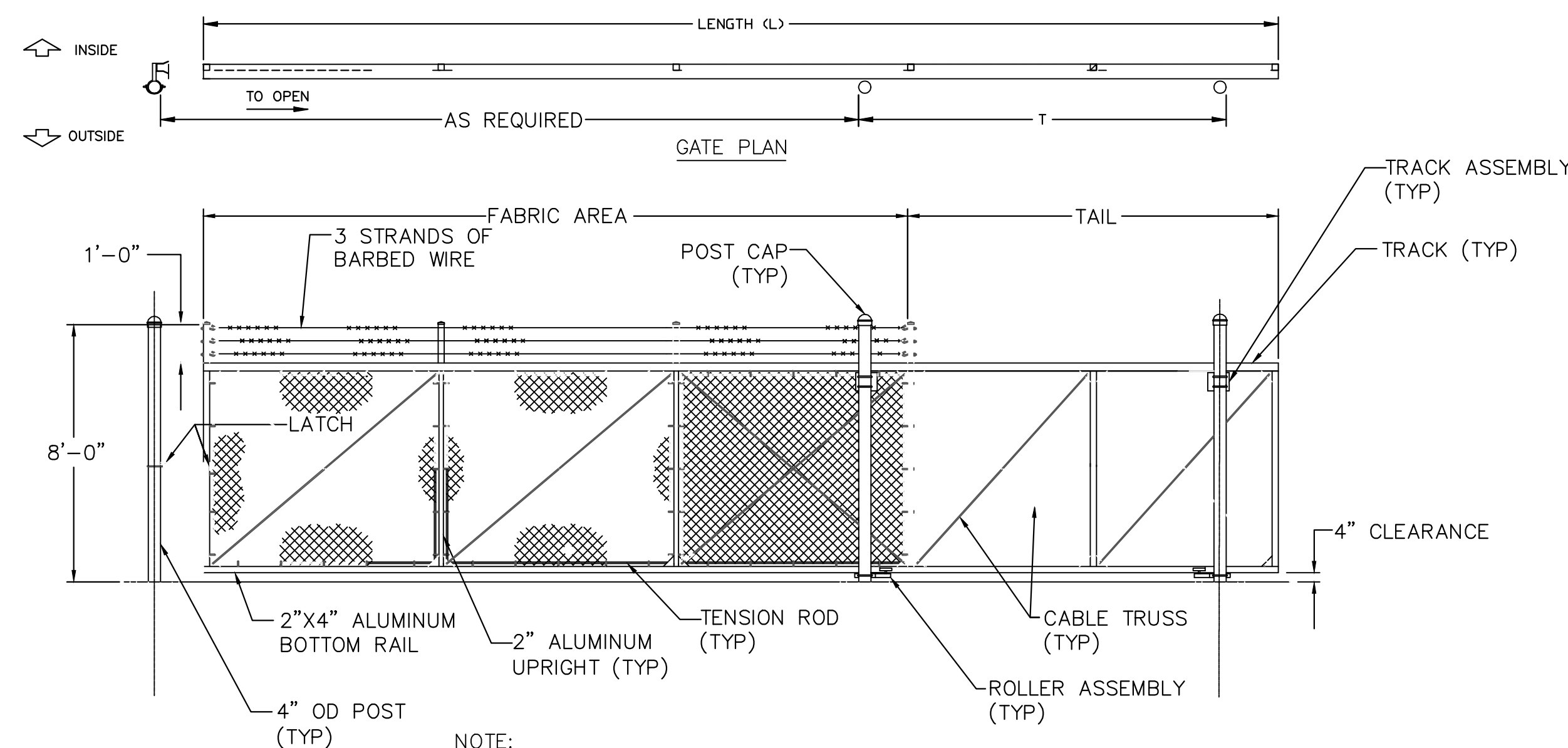
TYPICAL LINE FENCE DETAIL
SCALE: NTS



GATE LATCH DETAIL
NO SCALE

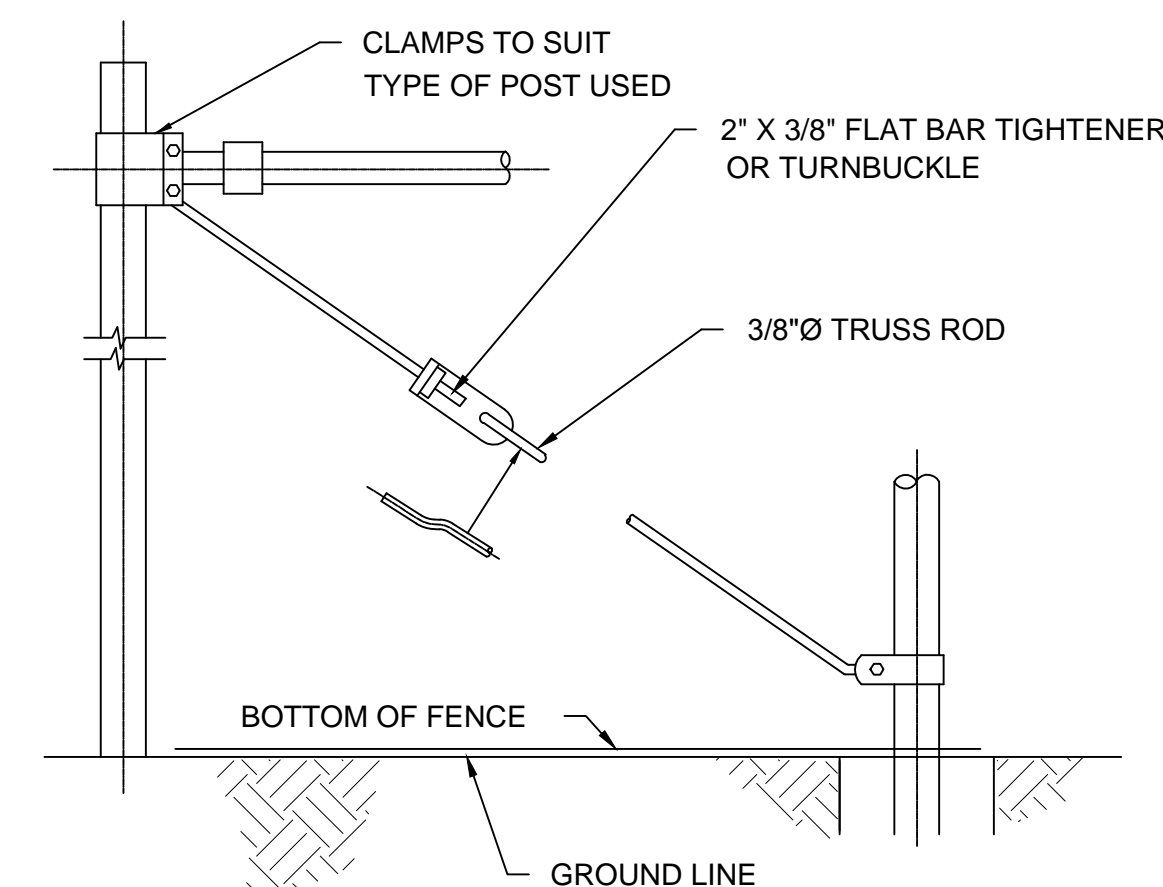


**DETAIL BARBED WIRE
SUPPORT ARM AND POST CAP**
SCALE: NTS



NOTE:
GATE POST FOUNDATIONS SHALL
BE AS RECOMMENDED BY THE
MANUFACTURER.

CATILEVERED GATE DETAIL



**TYPICAL DETAIL
TRUSS ROD TIES**
NO SCALE

SITE FENCING DETAILS



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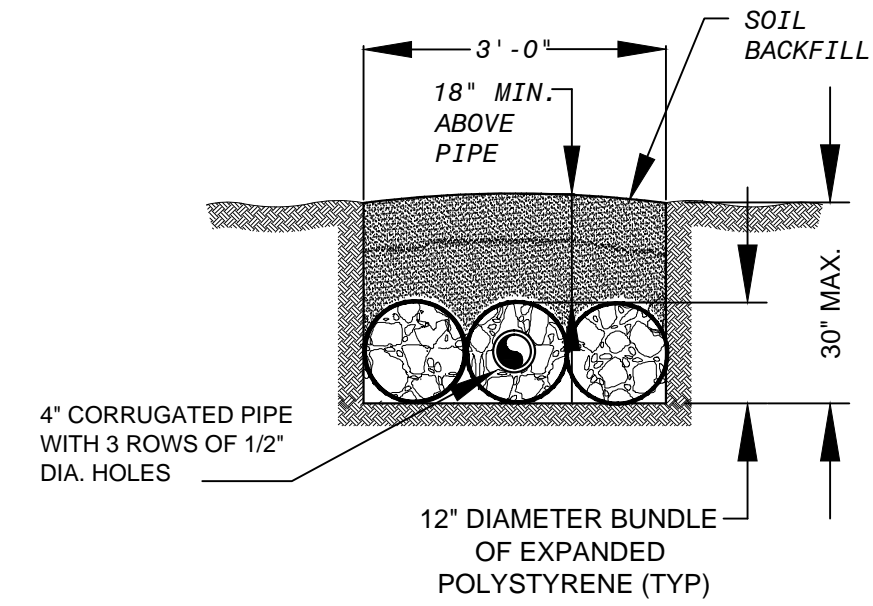
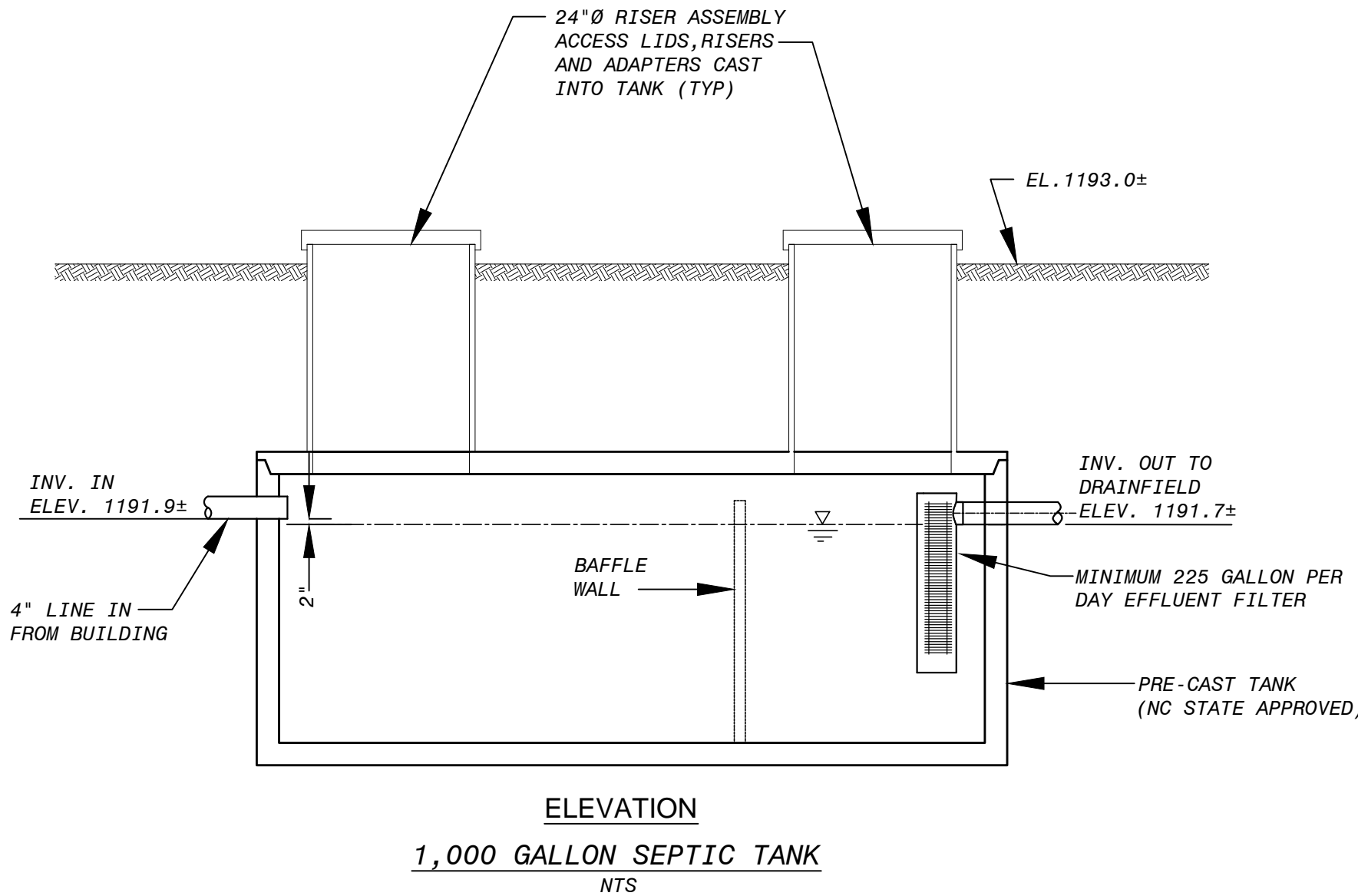
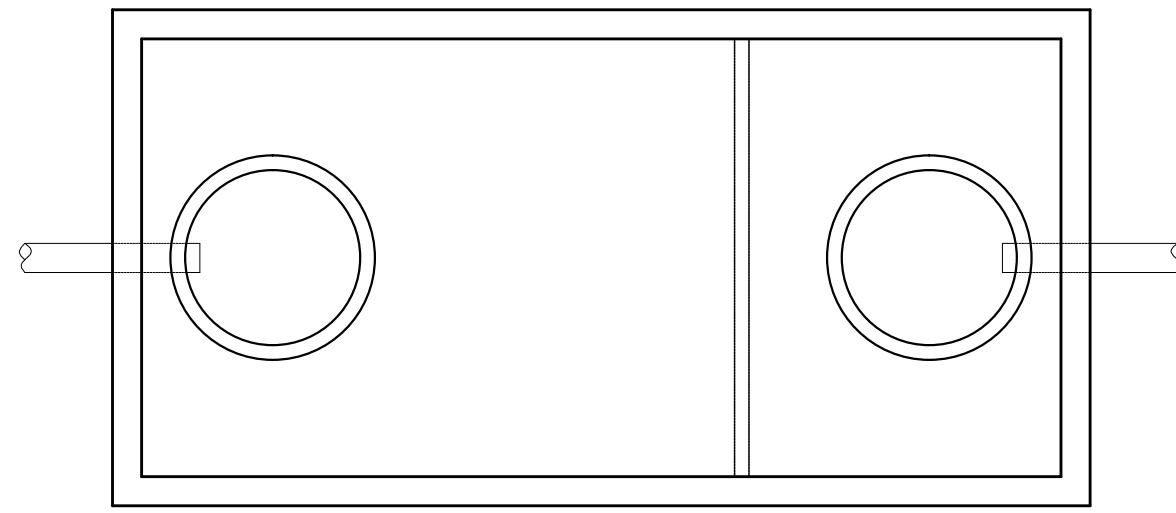
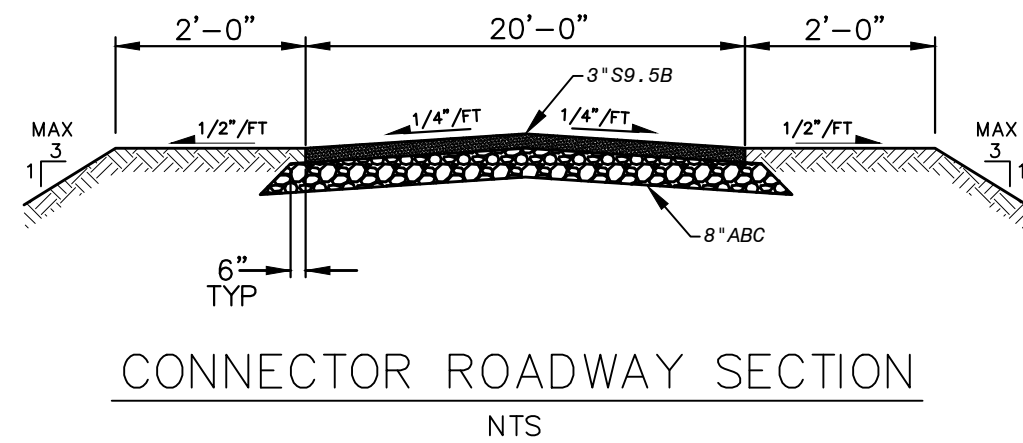
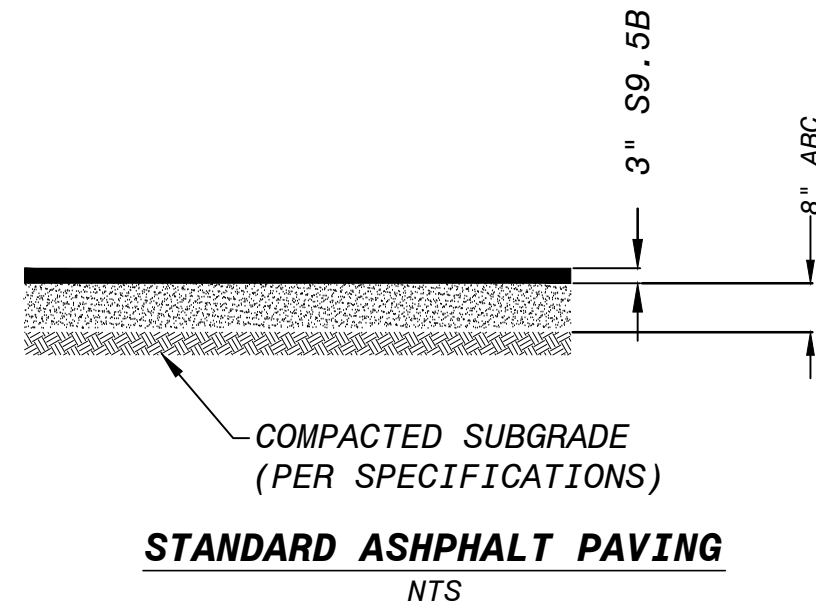
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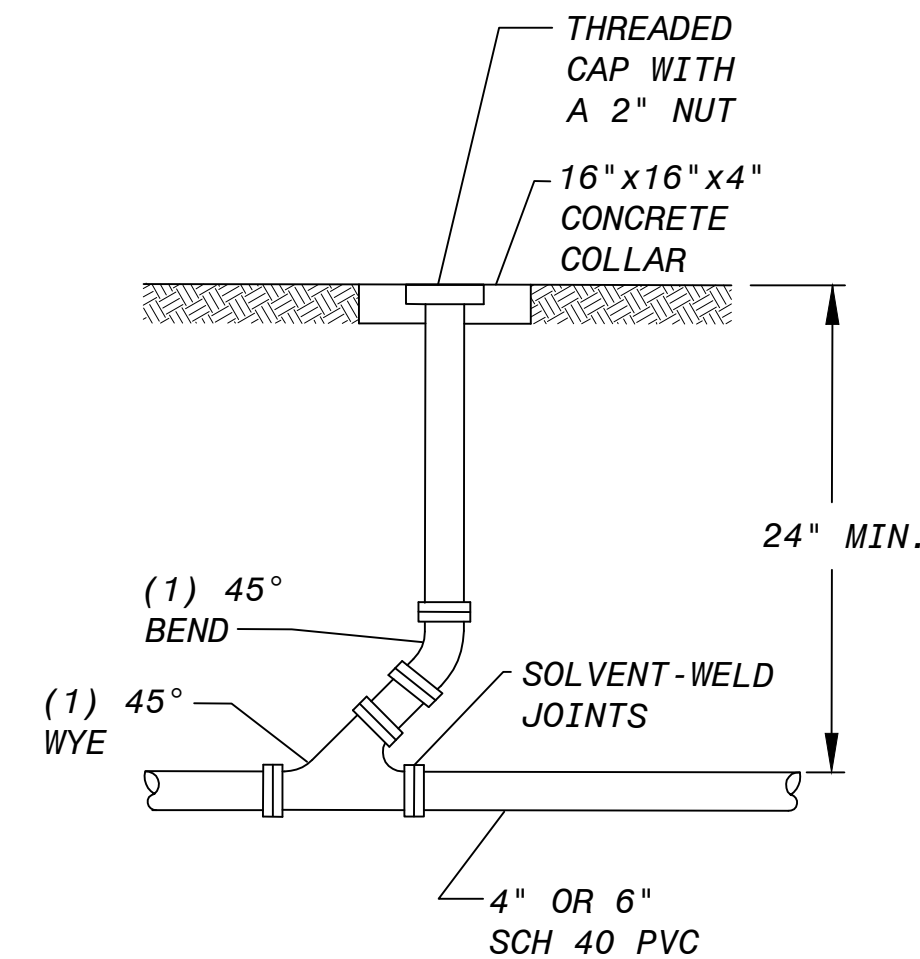
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- NOTES:**
- SEWER PIPE USED IN NITRIFICATION FIELD SHALL BE 4" CORRUGATED PIPE WITH 3 ROWS OF 1/2" Ø HOLES LOCATED 120" ALONG BOTTOM.
 - SEWER PIPE SHALL BE LAYED AT GRADE NOT TO EXCEED 1/4" FALL IN 10'.
 - NITRIFICATION TRENCHES SHALL BE APPROVED GRAVELLESS TRENCH SYSTEM.

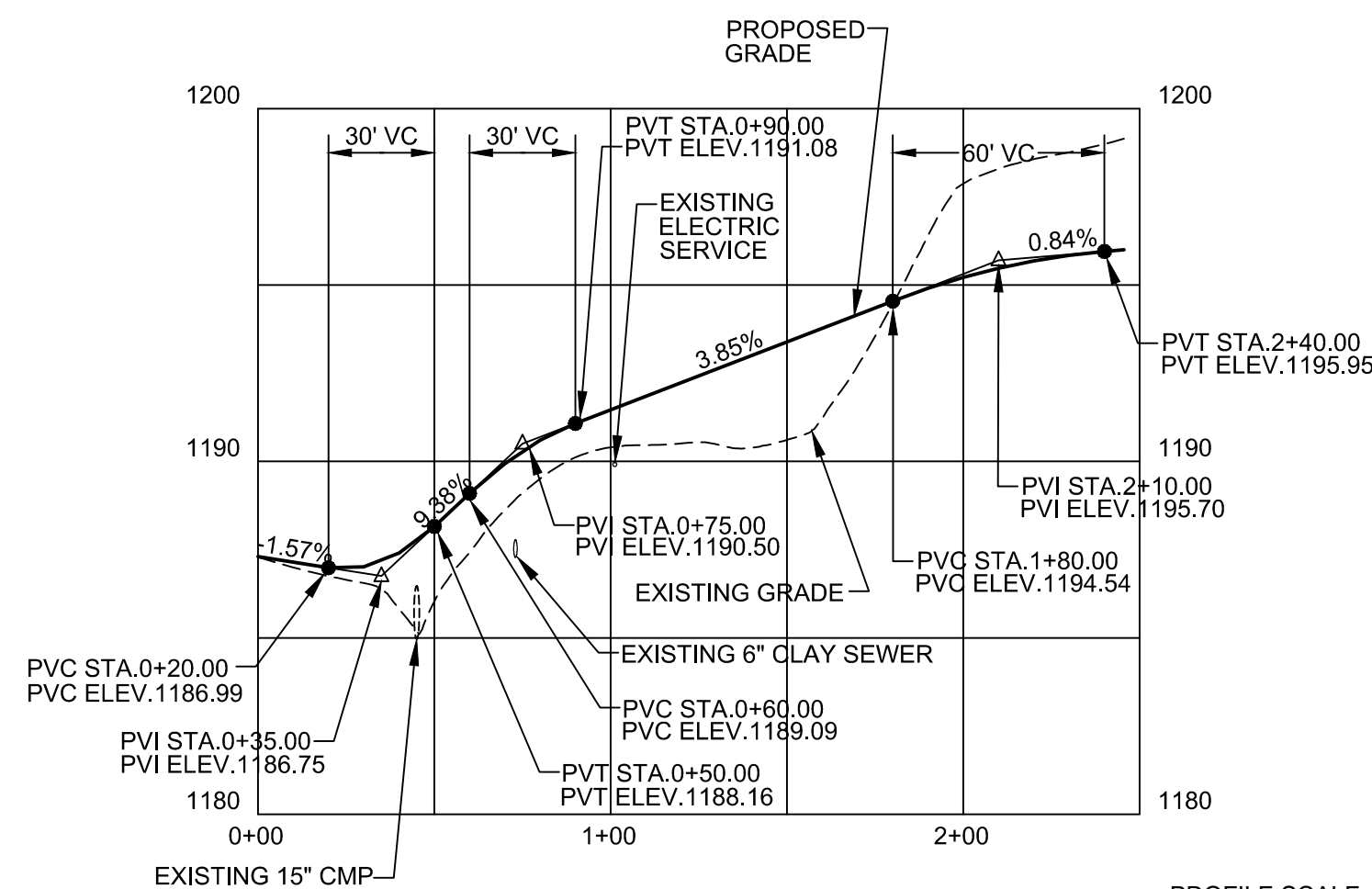
NITRIFICATION TRENCH DETAIL
3/4"=10"



TYPICAL CLEAN-OUT DETAIL
NTS

GENERAL NOTES:

- ALL INSTALLATION AND CONSTRUCTION TECHNIQUES SHALL CONFORM TO COUNTY AND STATE CODES.
- THE INSTALLATION OF THIS SYSTEM SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND PROCEDURES AS SUPPLIED BY THE MANUFACTURER OF THE EQUIPMENT.
- ALL PVC PIPE AND FITTINGS SHALL BE PVC SCH 40. ALL GLUED JOINTS SHALL BE CLEANED AND PRIMED WITH PURPLE (DYED) PVC PRIMER PRIOR TO BEING GLUED.
- ALL PVC PIPE IN THE WORK AREA SHALL HAVE THE ENDS COVERED WITH DUCT TAPE TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE PIPE PRIOR TO GLUING. ALL JOINTS SHALL BE INSPECTED FOR AND CLEARED OF ANY CONSTRUCTION DEBRIS.
- NO WET WEATHER INSTALLATION IS PERMITTED.
- NO ACTIVITY ON DRAINFIELD AREA IS ALLOWED OTHER THAN MINIMUM REQUIRED TO INSTALL SYSTEM. DO NOT PARK EQUIPMENT, DRIVE LARGE EQUIPMENT OVER, OR STORE MATERIALS ON DRAINFIELD SITE OR THE REPAIR AREA.
- IF SITE CONDITIONS REQUIRE THE INSTALLATION OF THE SYSTEM TO DEViate FROM THESE PLANS, ALL SITE WORK SHALL STOP IMMEDIATELY AND THE DESIGNER SHALL BE NOTIFIED. ANY ONGOING WORK SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE COMPLETE SYSTEM SHALL BE INSPECTED AND APPROVED BY SURRY COUNTY. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTION COORDINATION WITH THE COUNTY.
- THE INITIAL SYSTEM MUST BE LOCATED PRECISELY WHERE SHOWN. DO NOT USE ANY OF THE REPAIR AREA.
- ALL DISTURBED AREA SHALL BE RE-VEGETATED WITH GRASS. DO NOT PLACE MULCH, TREES, OR SHRUBS.



EQUIPMENT ROAD PROFILE

PROFILE SCALE:
HORIZONTAL 1"=50'
VERTICAL 1"=5'

PROFILE, TYPICAL SECTION AND SEWER DETAILS



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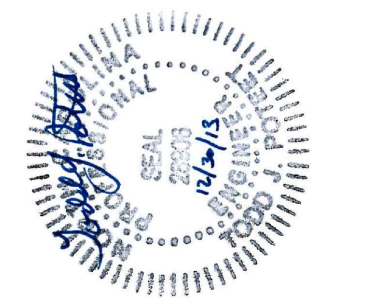
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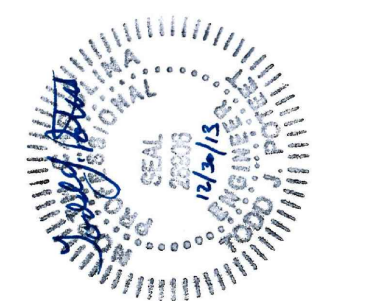
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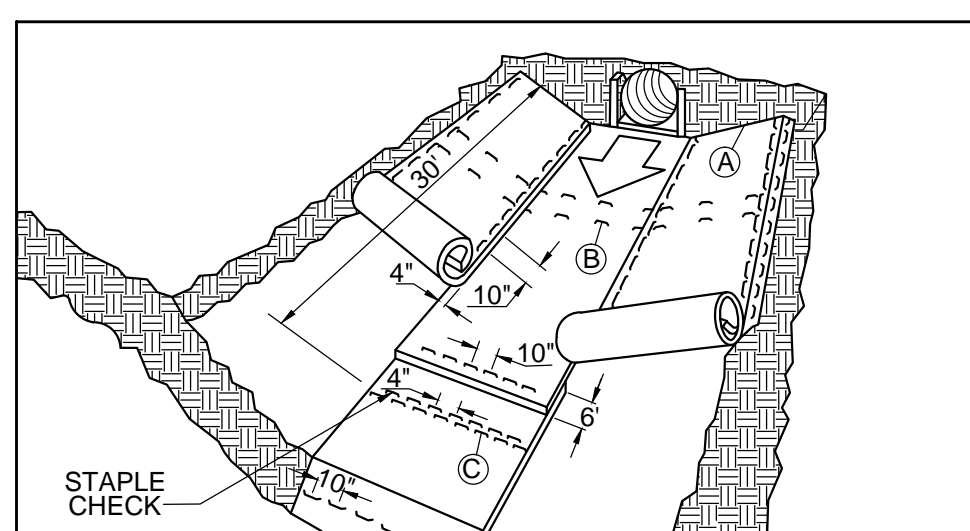
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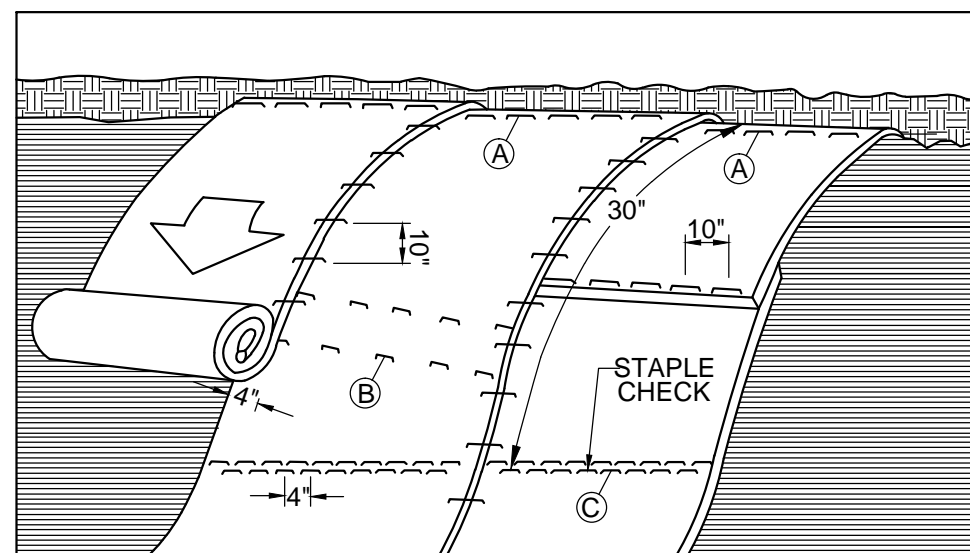
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MATTING IN DITCHES



MATTING ON SLOPES

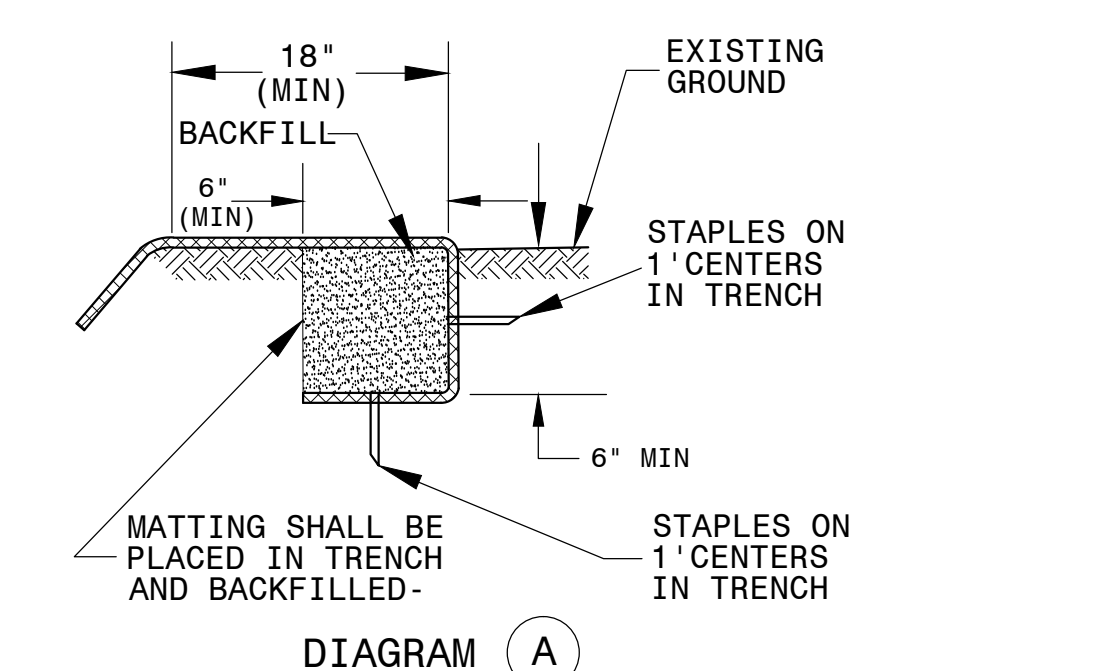


DIAGRAM A

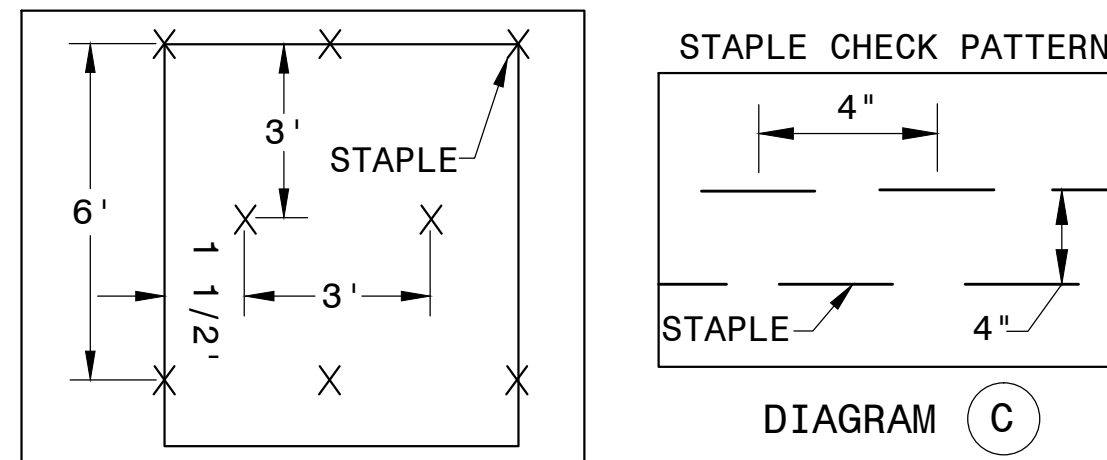


DIAGRAM B

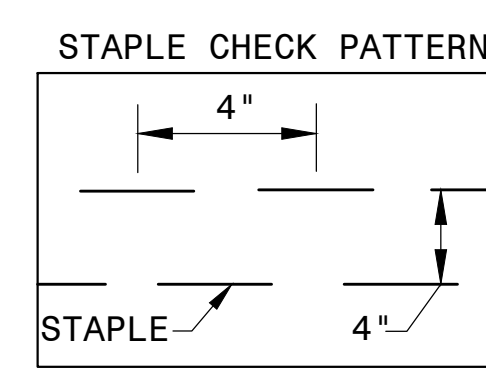
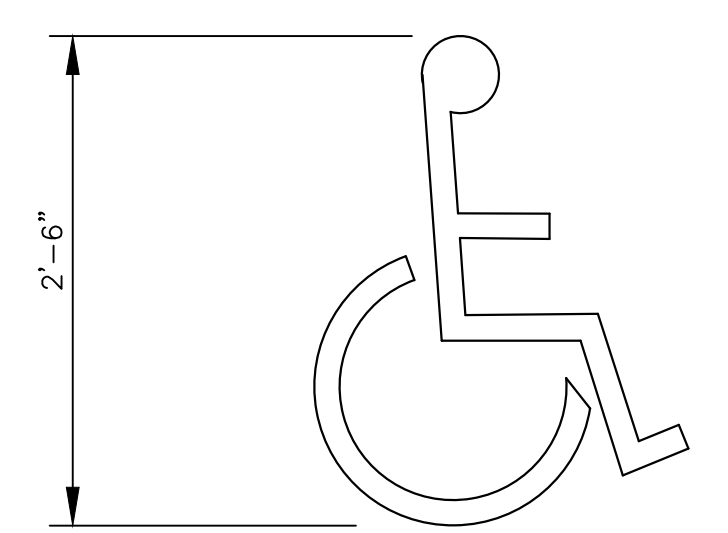
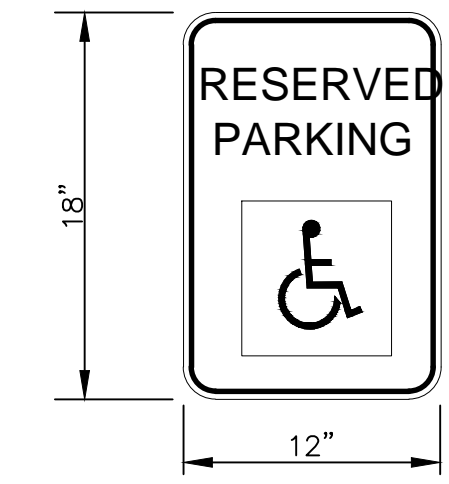


DIAGRAM C

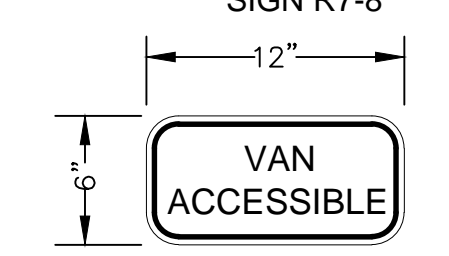
MATTING INSTALLATION DETAIL



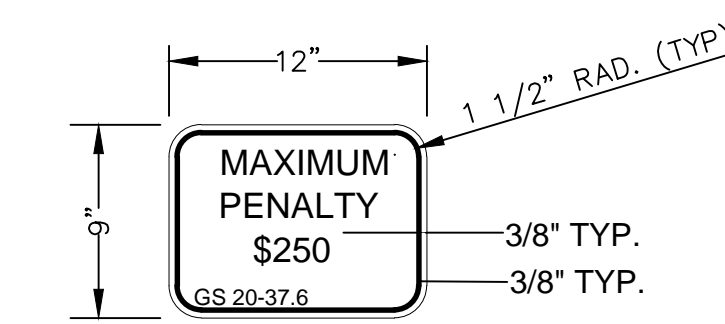
TYPICAL ACCESSIBILITY SYMBOL ON PARKING SPACES



SIGN "A"
SIGN R7-8



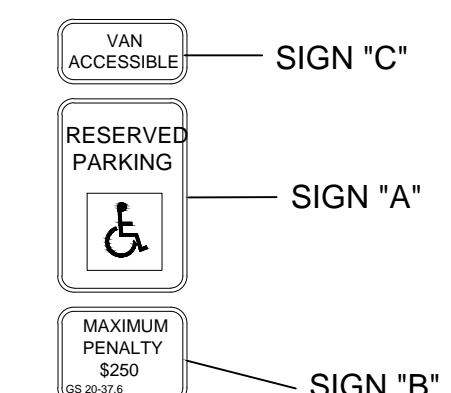
SIGN "C"
VAN ACCESSIBLE SIGN



SIGN "B"
SIGN R7-8D

- SIGN "A"
1. LEGEND & BORDER - GREEN
2. WHITE SYMBOL ON BLUE BACKGROUND
3. BACKGROUND - WHITE
SIGN "B"
1. LEGEND & BORDER - GREEN
2. BACKGROUND - WHITE
SIGN "C" (FOR SPACES SO DESIGNATED)
1. LEGEND & BORDER - GREEN
2. BACKGROUND - WHITE

HANDICAP SIGNS DETAIL



HANDICAP SIGN DETAIL
NTS

NOTE: SIGNS SHALL BE MOUNTED ON THE EXTERIOR WALL OF THE BUILDING. SIGNS SHALL BE COMBINED TO ONLY USE ONE OR TWO SIGNS AND BE IN COMPLIANCE WITH STATE CODE.

PERMANENT AND TEMPORARY SEEDING SCHEDULE

GRADED AREAS:

1. APPLY GROUND AGRICULTURAL LIMESTONE AND FERTILIZER IN ACCORDANCE WITH SOIL TEST RECOMMENDATIONS.
2. IF SOIL TESTS RESULTS ARE NOT AVAILABLE, APPLY LIMESTONE AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE AND 10-10-10 GRADE FERTILIZER AT A RATE OF 800-900 LB/ACRE.
3. INCORPORATE BOTH FERTILIZER AND LIME INTO THE TOP 4-6 INCHES OF SOIL.
4. TEMPORARY SEEDING SCHEDULE:

REGION	DATES	SEEDING MIXTURE	RATE
MOUNTAINS	FEB. 1 - MAY 15	RYE GRAIN	120 LB/AC.
	MAY 16 - AUG. 15	KOREAN LESPEDEZA	50 LB/AC.
	AUG. 16 - DEC. 15	GERMAN MILLET	40 LB/AC.
PIEDMONT	JAN. 1 - MAY 1	RYE GRAIN	120 LB/AC.
	MAY 2 - AUG. 15	KOBE LESPEDEZA	50 LB/AC.
	AUG. 16 - DEC. 30	GERMAN MILLET	40 LB/AC.

REGION	DATES	SEEDING MIXTURE	RATE
MOUNTAINS	AUG. 15 - MAY 1	KY 31 TALL FESCUE	100 LB/AC.
	AUG. 20 - APRIL 15	RYE GRAIN	40 LB/AC.
	AUG. 1 - JUNE 1	SERICEA LESPEDEZA	15 LB/AC.

REGION	DATES	SEEDING MIXTURE	RATE
PIEDMONT	SEPT. 1 - APRIL 15	KY 31 TALL FESCUE	100 LB/AC.
	APRIL 16 - JUNE 30	CENTPEDE GRASS	10 LB/AC.
		BERMUDA GRASS	25 LB/AC.

6. APPLY STRAW MULCH AT THE RATE OF 4,000 LB/AC. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. IF USING ASPHALT TACK, APPLY AT THE RATE OF 0.1 GAL/SY (11 GAL/SF). DO NOT APPLY ASPHALT TACK IN CLOSE PROXIMITY TO LIVE WATER.

SEEDBED PREPARATION:

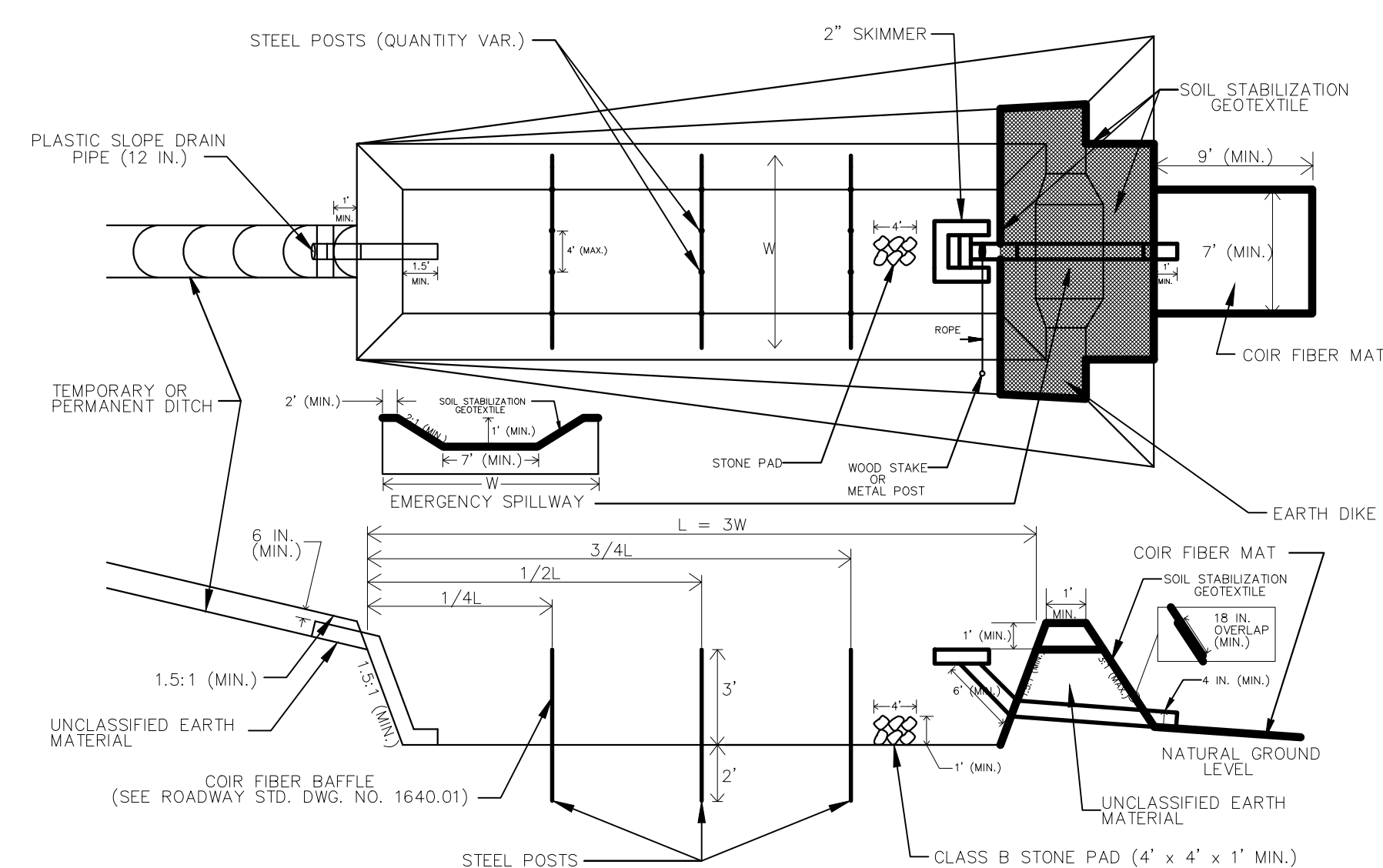
1. INSTALL SURFACE WATER CONTROLS IN ACCORDANCE WITH THE APPROVED PLAN.
2. REMOVE ROCKS, ROOTS, AND DEBRIS THAT COULD INTERFERE WITH SEEDBED PREPARATION.
3. AREA TO BE SEEDBED SHALL BE LOOSENESED TO A DEPTH OF 4-6 INCHES USING A RIPPER, HARROW, OR CHISEL PLOW.
4. SURFACE FOR FINAL SEEDBED SHALL BE TO GRADE, SMOOTH, AND UNIFORM. SLOPES SHALL BE GROOVED OF FURROWED ALONG THE CONTOUR.
5. APPLY LIME AND FERTILIZER IN ACCORDANCE WITH THESE SEEDING SPECIFICATIONS.
6. APPLY SEED AND MULCH IN ACCORDANCE WITH THESE SEEDING SPECIFICATIONS.
7. RESEED AND MULCH AREAS WHERE COVER IS SPARSE OR WHERE EROSION HAS OCCURRED.

NOTES:

1. MAXIMUM SLOPE ANGLES SHALL BE NO GREATER THAN THE ANGLE WHICH CAN BE ADEQUATELY RETAINED BY VEGETATIVE COVER OR EROSION CONTROL STRUCTURES.
2. ALL AREAS SHALL HAVE GROUND COVER PROVIDED WITHIN 15 DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
3. PERMANENT GROUND COVER SHALL BE ESTABLISHED WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS, WHICHEVER PERIOD IS SHORTER, FOLLOWING COMPLETION OF GRADING.
4. ON EXISTING LAWNS, ONLY REBEL FESCUE SHALL BE APPLIED, AND ASPHALT TACK SHALL NOT BE USED
5. STABILIZATION FOR THIS PROJECT SHALL COMPLY WITH THE TIME FRAME GUIDELINES AS SPECIFIED BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY. TEMPORARY OR PERMANENT GROUND COVER STABILIZATION SHALL OCCUR WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY, WITH THE FOLLOWING EXCEPTIONS IN WHICH TEMPORARY OR PERMANENT GROUND COVER SHALL BE PROVIDED IN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY:

- SLOPES BETWEEN 2:1 AND 3:1, WITH A SLOPE LENGTH OF 10 FT. OR LESS
- SLOPES 3:1 OR FLATTER, WITH A SLOPE OF LENGTH OF 50 FT. OR LESS
- SLOPES 4:1 OR FLATTER

THE STABILIZATION TIMEFRAME FOR HIGH QUALITY WATER (HQW) ZONES SHALL BE 7 CALENDAR DAYS WITH NO EXCEPTIONS FOR SLOPE GRADES OR LENGTHS. HIGH QUALITY WATER ZONES (HQW) ZONES ARE DEFINED BY NORTH CAROLINA ADMINISTRATIVE CODE 15A NCAC 04A.0105 (25). TEMPORARY AND PERMANENT GROUND COVER STABILIZATION SHALL BE ACHIEVED IN ACCORDANCE WITH THE PROVISIONS IN THIS CONTRACT AND AS DIRECTED.



NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT. THE MINIMUM BASIN WIDTH SHALL BE 20 FT.
4. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE AS DIRECTED.
6. SOIL STABILIZATION GEOTEXTILE FOR EMERGENCY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).
7. SKIMMER BASIN SHALL HAVE A 2" SKIMMER WITH A 1.5" ORIFICE PLATE.

SKIMMER BASIN WITH BAFFLES DETAIL

NOT TO SCALE

EROSION CONTROL AND SITE DETAILS



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