

## PURCHASING WAREHOUSE ROOF REPLACEMENT &amp; STRUCTURAL UPGRADES

ANCHORAGE SCHOOL DISTRICT

ANCHORAGE, AK



Anchorage  
School District

## REVISIONS

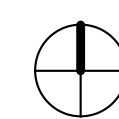
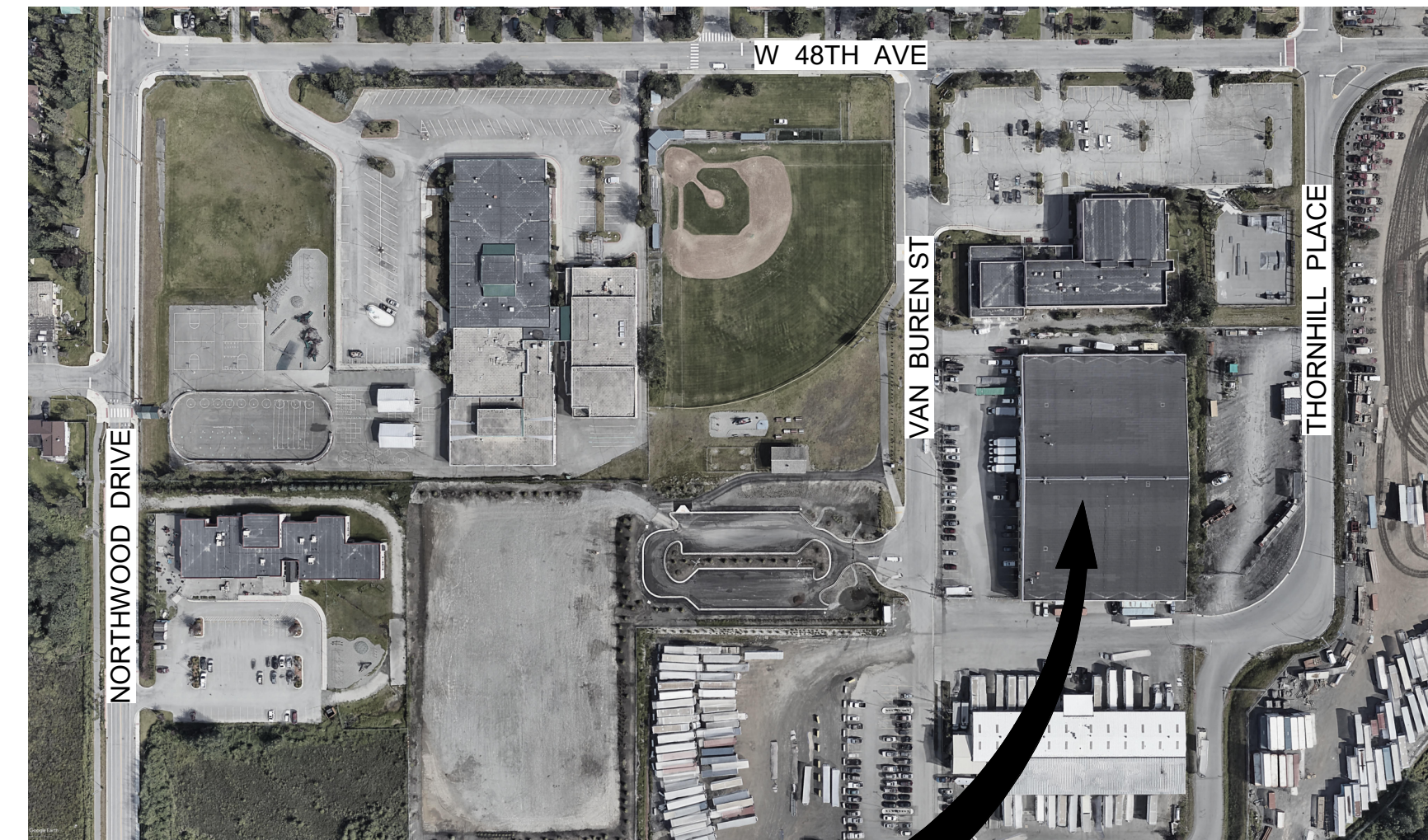
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## GENERAL NOTES

- THE "NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) ROOFING MANUAL: MEMBRANE ROOF SYSTEMS" IS USED AS THE BASIS FOR THIS DESIGN AND IS TO BE USED BY THE CONTRACTOR AS A BASIS FOR CONSTRUCTION, UNLESS OTHERWISE NOTED.
- ROOF INVESTIGATIVE INFORMATION IS SHOWN ON EXISTING DETAILS.
- EXISTING CONDITIONS ARE SHOWN AS ACCURATELY AS POSSIBLE. SITE VERIFY ALL INFORMATION NOTED IN THESE CONTRACT DOCUMENTS.
- ALL DETAILS ARE TO BE CONSIDERED TYPICAL. SIMILAR DETAILS OCCUR AT SIMILAR LOCATIONS.
- IF DECAYED WOOD OR STEEL IS FOUND, INFORM THE OWNER'S REPRESENTATIVE PRIOR TO REMOVAL / REPLACEMENT OR CONCEALING DAMAGE.
- NO SILICONE SEALANT IS TO BE USED. USE APPROVED POLYURETHANE SEALANT.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES, ELECTRICAL EQUIPMENT AND WIRING, INCLUDING ANY BELOW DECK APPURTENANCES BEFORE PROCEEDING WITH ANY WORK. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING MECHANICAL, ELECTRICAL, PLUMBING APPURTENANCES.
- ALL ROOFING AND BUILDING MATERIALS ARE TO BE KEPT DRY.
- CONTRACTOR TO WORK ON ONLY PORTION OF THE ROOFING THAT CAN BE WATERPROOFED THAT DAY.
- CLEANING DURING CONSTRUCTION: CONTROL ACCUMULATION OF WASTE MATERIALS AND RUBBISH. DISPOSE OF WASTE IMMEDIATELY. KEEP AREAS FREE OF HAZARDS AND RUBBISH.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE SITE AND BUILDING FROM PROJECT RELATED DAMAGE.
- TAKE SPECIAL CARE TO SECURE ALL CONSTRUCTION AND DEMOLITION MATERIALS FROM WIND DISPLACEMENT.
- COORDINATE WITH OWNER'S REPRESENTATIVE TO ACCOMMODATE ANY SPECIAL REASONABLE NEEDS.
- NO NOISE PRODUCING WORK BEFORE 7 AM OR AFTER 10 PM. COORDINATE IN COLLABORATION WITH EROSION CONTROL PLAN NOTED ON CIVIL DRAWINGS (C1.01)
- OWNER IS NOT LIABLE FOR ANY CHANGE EXPENSE NOT APPROVED CONTRACTUALLY.



## LEGAL DESCRIPTION:

RAIL-AIR BUSINESS PARK  
BLK 1 LT 2  
PLAT 74-216  
PARCEL ID 010-511-05-000

## PROJECT LOCATION

## PROJECT DESCRIPTION

IN GENERAL, THE PROJECT CONSISTS OF DEMOLISHING APPROXIMATELY 64,500 SF EXISTING BUR ROOF ASSEMBLY AND THE APPROXIMATELY 500 LF OF ASSOCIATED PARAPET WALL AND CONSTRUCTING A NEW FULLY ADHERED EPDM MEMBRANE ROOFING ASSEMBLY AND NEW PARAPET WALLS. WORK INCLUDES REPLACING EXISTING DRAINS WITH NEW DRAINS AT NEW LOCATIONS. NEW FALL PROTECTION RAILINGS ALONG WITH OTHER FALL PROTECTION FEATURES WILL BE PROVIDED. BUILDING INTERIOR INCLUDES RAIN LEADER RELOCATION, ROOF ACCESS LADDER MODIFICATIONS, STRUCTURAL UPGRADES AND ARCHITECTURAL RESTORATION TO INTERIOR SHEAR WALLS.

WHILE NOT NECESSARILY ALL-INCLUSIVE, WORK WILL INCLUDE GENERAL CONTRACTING, CIVIL, HAZ-MAT, ROOFING, MECHANICAL AND ELECTRICAL TRADES.

THE PROJECT INCLUDES 2 ADDITIVE ALTERNATIVES:

ALTERNATE NO. 1 - DEMOLITION AND REPLACEMENT OF WEST SIDE ACCESSIBLE HANDICAP RAMP TO INCLUDE A NEW PROTECTION CANOPY STRUCTURE. REPAIR/REPLACE EXISTING SIDING AT CANOPY.

ALTERNATE NO. 2 - CONSTRUCTION OF NEW OUTDOOR STORAGE CANOPY STRUCTURE ALONG THE NORTH SIDE OF THE BUILDING.

## WIND UPLIFT

REFER TO S0.05 FOR THESE PRESSURES.

## ACCESS &amp; STAGING NOTES

- MAINTAIN ALL SITE ACCESS AND BUILDING OCCUPANT AND VEHICLE ENTRIES FREE FROM OBSTRUCTIONS AT ALL TIMES.
- STAGING AREAS, BUILDING ACCESS, AND CONSTRUCTION ACTIVITIES TO BE COORDINATED WITH OWNER'S REPRESENTATIVE.
- CONTRACTOR TO BE RESPONSIBLE FOR TEMPORARY FENCING AND MATERIALS STORED ON SITE.

## ABBREVIATIONS

ACM	ASBESTOS CONTAINING MATERIALS	NA	NOT APPLICABLE
A.F.F.	ABOVE FINISH FLOOR	NIC	NOT IN CONTRACT
APPROX	APPROXIMATELY	NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
BLDG	BUILDING	NTS	NOT TO SCALE
BUR	BUILT UP ROOFING	OC	ON CENTERS
CMU	CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OFS	OVERFLOW SCUPPER
CONT	CONTINUOUS	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	POLY	POLYETHYLENE
DWG	DRAWING	POLYISO	POLYISOCYANURATE INSULATION
(E)	EXISTING	PREFAB	PREFABRICATE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	PSF	POUNDS PER SQUARE FOOT
EJ	EXPANSION JOINT	PSI	POUNDS PER SQUARE INCH
EL	ELEVATION	PT	PRESSURE PRESERVATIVE TREATED
ELEC	ELECTRIC, ELECTRICAL	PTR	PIPE THROUGH ROOF
ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	RD	ROOF DRAIN
EPS	EXPANDED POLYSTYRENE INSULATION	RL	RAIN LEADER
EQ	EQUAL	RM	ROOM
ETR	ELECTRICAL THROUGH ROOF	SAM	SELF ADHERING MEMBRANE
EXIST	EXISTING	SBS	STYRENE-BUTADIENE-STYRENE
F.F.	FINISH FLOOR	SD	STORM DRAIN
FIB BD	FIBER BOARD	SEBS	STYRENE-ETHYLENE-BUTADIENE-STYRENE
GA	GAUGE	SF	SQUARE FOOT, SQUARE FEET
GALV	GALVANIZED	SIM	SIMILAR
GLB	GLUE LAMINATED BEAM	SM	SHEET METAL
GWB	GYPSUM WALL BOARD	SPF	SPRAYED POLYURETHANE FOAM
HR	HOUR	SS	STAINLESS STEEL
INFO	INFORMATION	STRUC	STRUCTURAL
INSUL	INSULATION	TO	TOP OF
J-BOX	JUNCTION BOX	TYP	TYPICAL
LAM	LIQUID APPLIED MEMBRANE	UON	UNLESS OTHERWISE NOTED
LF	LINEAL FEET	VIF	VERIFY IN FIELD
LG	LIGHT GUARD	VR	VAPOR RETARDER
MAX	MAXIMUM	VTR	VENT THROUGH ROOF
MCBUR	MINERAL CAP BUILT UP ROOF	W	WIDE
MECH	MECHANICAL	W/	WITH
MFR	MANUFACTURER	XPS	EXTRUDED POLYSTYRENE BOARD
MISC	MISCELLANEOUS		
MIN	MINIMUM		

## SYMBOLS

ROOF 'XX'	ROOF DESIGNATION
TOD: 0'-0"	APPROXIMATE TOP OF ROOF DECK
○	EXISTING ROOF DRAIN
●	NEW ROOF DRAIN
⊕	EXISTING SCUPPER
⊕	NEW SCUPPER
●	HOT STACK
⊗	VENT STACK
⊗	ROOF CURB
⊗	PLUMBING VENT THROUGH ROOF
○	PIPE THROUGH ROOF
→	ROOF SLOPE DIRECTION
■	ROOF PENETRATION CUT LOCATION
△	TAPERED EPS DRAINAGE CRICKET
⊗	ROOF HATCH
⊕	ROOF ACCESS LADDER
⊕	ROOF WALKPADS

## DESIGN / CODE DATA

- LEVEL ONE RENOVATION
- COMPLY WITH APPLICABLE MOA AMENDMENTS
- OCCUPANCY S2/B - NO CHANGE IN OCCUPANCY
- CONSTRUCTION TYPE: IIA
- WIND DESIGN PER 2012 IBC (ASCE 7-16)
- MINIMUM ROOF COVERING CLASSIFICATION - B (CLASS A PROVIDED)
- AVERAGE ROOF INSULATION = R35

**PROPOSED FACILITY:**  
OCCUPANCY - MIXED, NON-SEPARATED USE PROVISIONS OF IBC, SECTION 508.3.1.1, ALLOW THE BUILDING TO COMPLY WITH THE MOST RESTRICTIVE OCCUPANCY WHICH IS E. THE E AND A OCCUPANCIES ARE NOT CONSIDERED SEPARATE OCCUPANCIES PER IBC, SECTION 303.1, EXCEPTION NO.4.

CONSTRUCTION TYPE: IIIB [CLASS A PROVIDED]

**FIRE PROTECTION:**  
AUTOMATIC SPRINKLERS PER 13 AAC 50.020 (37). FIRE EXTINGUISHERS PER IBC/IFC, SECTION 906, FIRE ALARM SYSTEM 907.2.3 AS REVISED BY 13 AAC 50.020 (47).

## DEAD LOAD ANALYSIS

EXISTING ROOF		NEW ROOF	
MINERAL SURFACE CAP BUR	5.0 PSF	EPDM MEMBRANE (90mil)	1.2 PSF
1/2" WOOD FIBERBOARD	0.67 PSF	1/2" COVERBOARD	0.28 PSF
<b>AT EAVES ONLY:</b>		<b>AT EAVES ONLY:</b>	
1/2" WOOD FIBERBOARD	0.67 PSF	VARIES TAPERED EPS FOAM	MINIMAL
VARIED TAPERED EPS FOAM	MINIMAL	7-1/2" FOAM ADHERED TO BUR	0.94 PSF
5.4" EPS SET IN ASPHALT	0.87 PSF	<b>TOTAL ADDED:</b>	<b>2.42 PSF</b>
<b>TOTAL REMOVED:</b>	<b>7.21 PSF</b>	<b>EXISTING TO REMAIN:</b>	
<b>EXISTING TO REMAIN:</b>		BUR MEMBRANE	
BUR MEMBRANE		5/8" PLYWOOD	
5/8" PLYWOOD		PREENGINEERED METAL	
PREENGINEERED METAL		ROOF PANELS (ASSUME 22GA)	
ROOF PANELS (ASSUME 22GA)		R-19 FIBERGLASS BLANKET(BAG)	
R-19 FIBERGLASS BLANKET(BAG)			

## COLOR SCHEDULE

- EPDM: BLACK
- PREFINISHED SHEET METAL: MIDNIGHT BRONZE
- PAINT: SUBMIT SAMPLES FOR ARCH. APPROVAL

## SPECIAL CONDITIONS

- CONTRACTOR MAY UTILIZE POWER AND WATER AT THE SITE AT NO COST.
- CONTRACTOR TO PROVIDE PORTABLE TOILETS.
- COORDINATE ANY BUILDING SHUTDOWNS WITH THE OWNER'S REPRESENTATIVE.

## OWNER

Anchorage School District,  
Capital Planning & Construction  
1301 Labar Street  
Anchorage, AK 99515-3517  
(907) 348-5244  
CONTACT: Linyi Long

## ARCHITECT

BDS Architects  
3330 C Street  
Suite 200  
Anchorage, Alaska 99503  
(907) 562-6076  
CONTACT: Ray Amsden

## GEOTECHNICAL ENGINEER

Golder Associates  
2121 Abbott Road, Suite 100  
Anchorage, AK 99507  
(907) 865-2537  
CONTACT: Richard Mitchells

## CIVIL ENGINEER

Enterprise Engineering, Inc.  
3601 C Street, Suite 650  
Anchorage, AK 99503  
(907) 677-6408  
CONTACT: Carl Bassler

## STRUCTURAL ENGINEER

Reid Middleton, Inc.  
4300 B Street, Suite 302  
Anchorage, AK 99503  
(907) 433-3305  
CONTACT: David Stierwalt

## MECHANICAL ENGINEER

RSA Engineering, Inc.  
670 W. Fireweed Ln, Suite 200  
Anchorage, Alaska 99503  
(907) 865-0579  
CONTACT: Dustin McCleskey

## ELECTRICAL ENGINEER

RSA Engineering, Inc.  
670 W. Fireweed Ln, Suite 200  
Anchorage, Alaska 99503  
(907) 276-0521  
CONTACT: Frank Silberer

## HAZARDOUS MATERIALS

EHS Alaska  
11901 Business Blvd., Suite 208  
Eagle River, AK 99577  
(907) 694-1383  
CONTACT: Robert French

**NOTIFICATION OF POTENTIAL HAZARDS:**  
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COVER SHEET  
G0.01

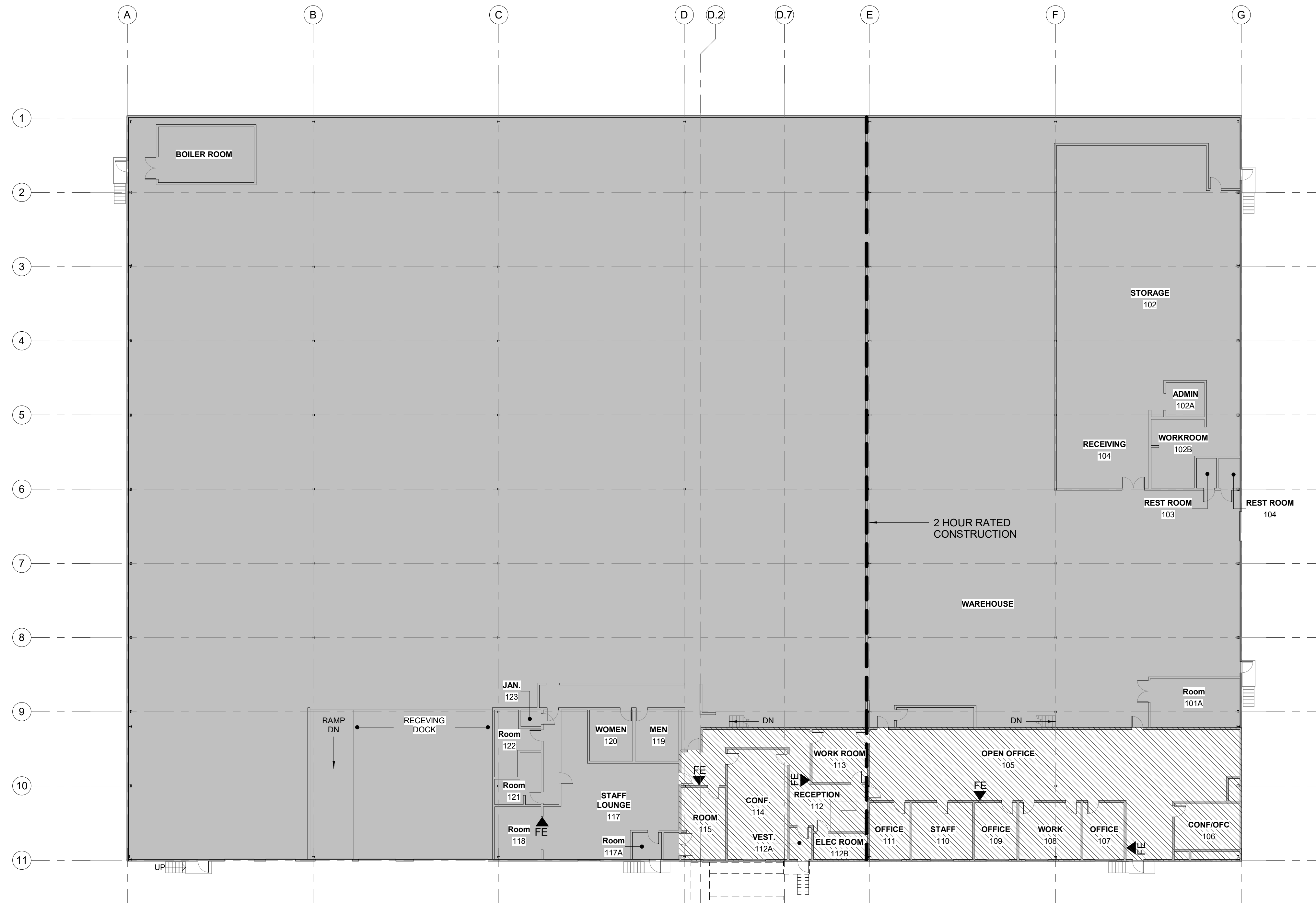




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**LEGEND**

- NO RENOVATIONS IN THIS SHADED AREA. WORK INSIDE THIS AREA AS REQUIRED - ALL OF THE INTERIOR DRAIN RAINLEADER RELOCATION AND NEW DRAIN HOOKUP WILL REQUIRE INTERIOR WORK.
- INTERIOR SHEAR WALL UPGRADES & ARCHITECTURAL RESTORATION
- 2 HOUR RATED CONSTRUCTION
- EXISTING FIRE EXTINGUISHER (OFFICE ADMINISTRATION SPACE ONLY)



BDS, Inc. Entity #25796D



3330 C St, Suite 200, Anchorage, Ak 99503  
 T: 907.562.6076 | F: 907.562.6635  
 W: www.bdsak.com

Drawn by: NS  
 Checked by: RA

**PURCHASING/WAREHOUSE  
 ROOF REPLACEMENT AND  
 STRUCTURAL UPGRADES**  
 4919 VAN BUREN ST

BDS Project No.: 023003  
 Client Project No.: 065006  
 BID DOCUMENTS  
 December 18, 2023

**1** CODE PLAN  
 G0.02 SCALE: 1/16" = 1'-0"

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**CODE PLAN  
 G0.02**



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NOTES

- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY. VERIFY LOCATIONS BY OBTAINING UTILITY LOCATES PRIOR TO BEGINNING CONSTRUCTION.
- DIMENSIONS ARE SHOWN TO EDGE OF ASPHALT, EDGE OF CONCRETE, CENTER OF STRIPE, FACE OF BUILDING, OR GRADE BREAK.
- ELEVATIONS ARE TO FINISHED GRADE. ELEVATIONS WITH (R) INDICATION ARE ON THE RAMP.
- IMPLEMENT EROSION CONTROL PLAN PREPARED BY ENTERPRISE ENGINEERING, INC. PLAN IS A LIVING DOCUMENT AND MUST BE UPDATED AS NEEDED THROUGHOUT CONSTRUCTION.
- FOLLOW MOA REGULATIONS FOR NOISE, HOURS OF OPERATION AND DUST CONTROL.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING IMPROVEMENTS OR USED TO DEEMPHASIZE PROPOSED IMPROVEMENTS. FOR CLARITY OF DRAWINGS, SOME WORK ELEMENTS ARE NOT SHOWN (E.G., SUBSURFACE UTILITY LINES ON A GRADING PLAN).
- PROVIDE REDLINES OF AS-CONSTRUCTED GRADES AND INVERTS FOR EVERY GRADE AND INVERT SHOWN ON THE PLANS. REDLINES WILL BE USED TO PREPARE RECORD DRAWINGS NEEDED FOR FINAL CO.

PROPERTY AND SURVEY DATA

LEGAL:

LOT 2, BLOCK 1, RAIL-AIR BUSINESS PARK, PLAT 74-216

BOUNDARY DIMENSIONS

ALL BOUNDARY DIMENSIONS ARE RECORD PER PLAT 74-216

HORIZONTAL AND VERTICAL CONTROL:

THIS PROJECT IS LOCATED WITHIN ALASKA STATE PLANE ZONE 4 NAD 83. THE VERTICAL DATUM IS NAVD88 COMPUTED USING GEOID12B. VERTICAL CONTROL WAS ESTABLISHED BY AN ON SITE LEVEL LOOP.

TBM 351: NORTHEAST BOLT ON FIRE HYDRANT (ELEVATION= 86.46')

TBM 352: BRASS DISK ON SIDE OF BUILDING LABELED GAAB 207. (ELEVATION= 88.19')

DATE OF FIELD SURVEY: JULY 12-13, 2023



ENTERPRISE ENGINEERING, INC.

3601 C STREET, SUITE 650  
ANCHORAGE, AK 99503  
TEL: (907) 563-3836  
LICENSE #AEC0651



BDS, Inc., Entity #25796D



3330 C St, Suite 200, Anchorage, AK 99503  
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Drawn by: RPP  
Checked by: CAB

PURCHASING/WAREHOUSE ROOF REPLACEMENT AND STRUCTURAL UPGRADES  
4919 VAN BUREN ST

BDS Project No.: 023003  
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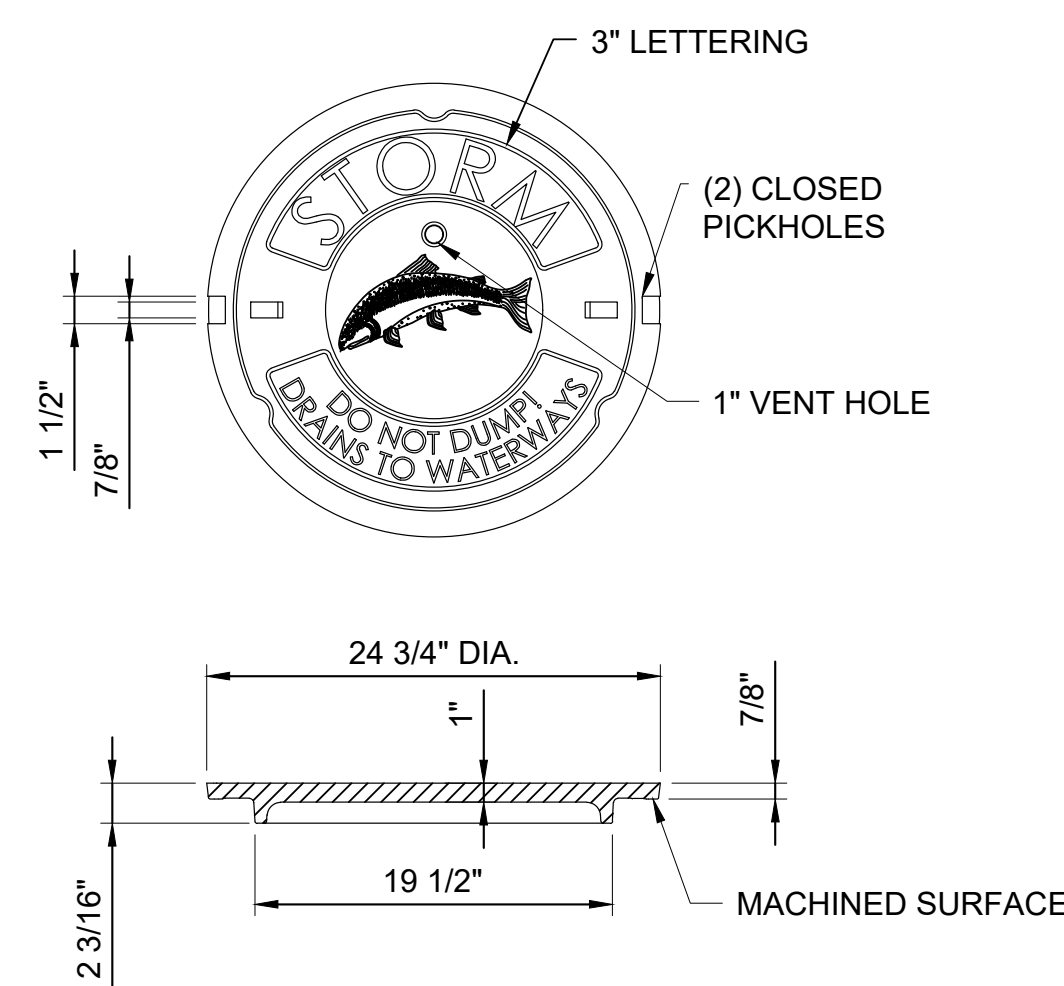
CIVIL NOTES,  
LEGEND AND  
ABBREVIATIONS  
**C0.01**

LEGEND (NOTE 6)

EXISTING	NEW	DESCRIPTION
---		PROPERTY LINE
---		EASEMENT
	---GB---	GRADE BREAK
—E <sub>x</sub> —		ELECTRICAL PRIMARY (ABOVEGROUND)
—E <sub>x</sub> —		ELECTRICAL PRIMARY (UNDERGROUND)
—SS <sub>x</sub> —		SANITARY SEWER
—SD <sub>x</sub> —	—SD—	STORM DRAIN
—W <sub>x</sub> —		WATER
—X—		FENCE
		EDGE OF ASPHALT
////	■	BUILDING
.....	.....	BUILDING OVERHANG
□	□	CONCRETE
—	—	PAINT STRIPE
124.77		SPOT ELEVATION
⊗		VALVE
⊗		CLEANOUT
⊗		SIGN
⊗		LIGHT POLE

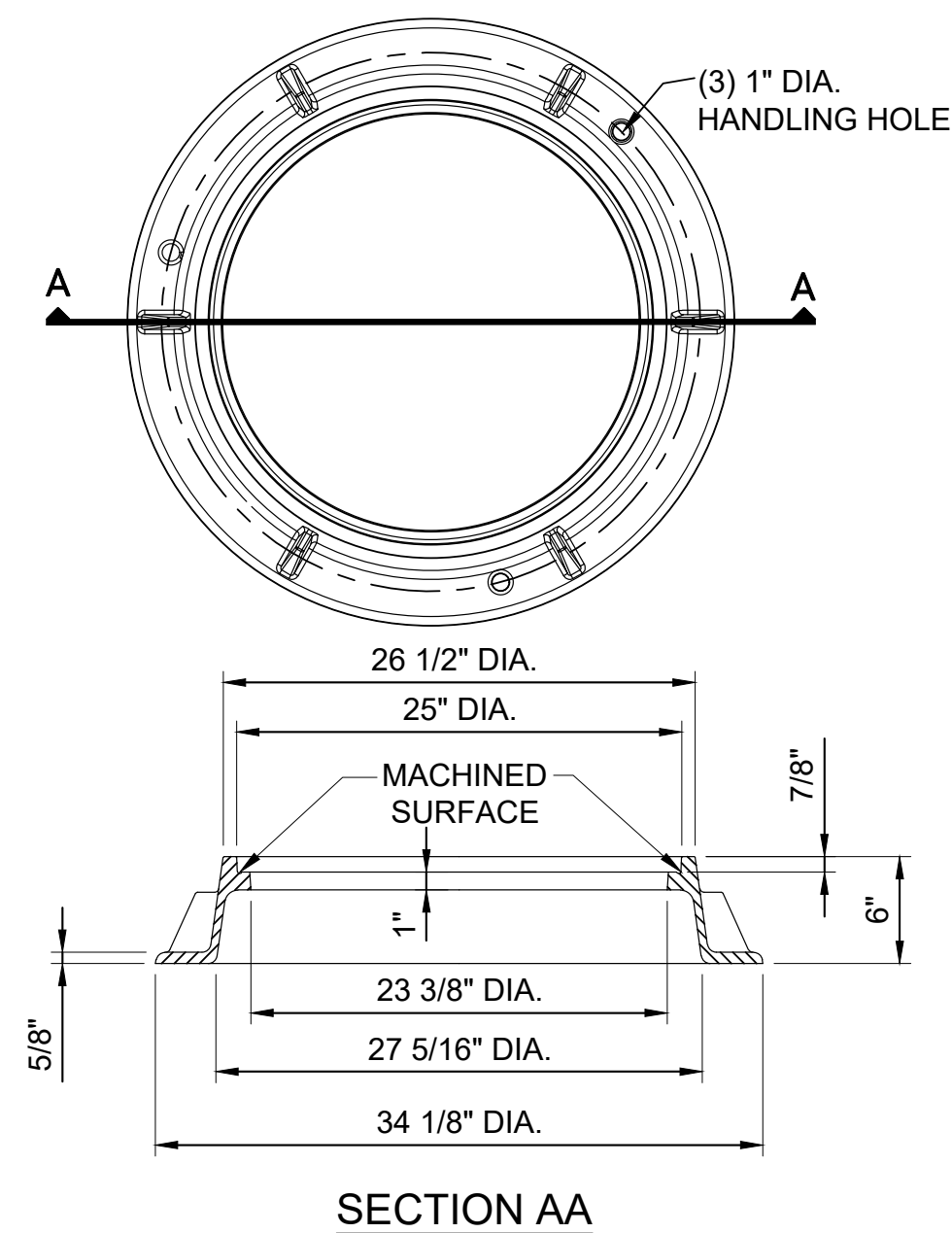
ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT
CPEP	CORRUGATED POLYETHYLENE PIPE
GB	GRADE BREAK
MASS	MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS
MIN	MINIMUM
ME	MATCH EXISTING
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
(R)	RAMP ELEVATION
%	PERCENT
±	PLUS OR MINUS



STORM DRAIN MANHOLE COVER (MASS 55-7)

SCALE: 1" = 1'-0"



MANHOLE FRAME (MASS 50-09)

SCALE: 1" = 1'-0"

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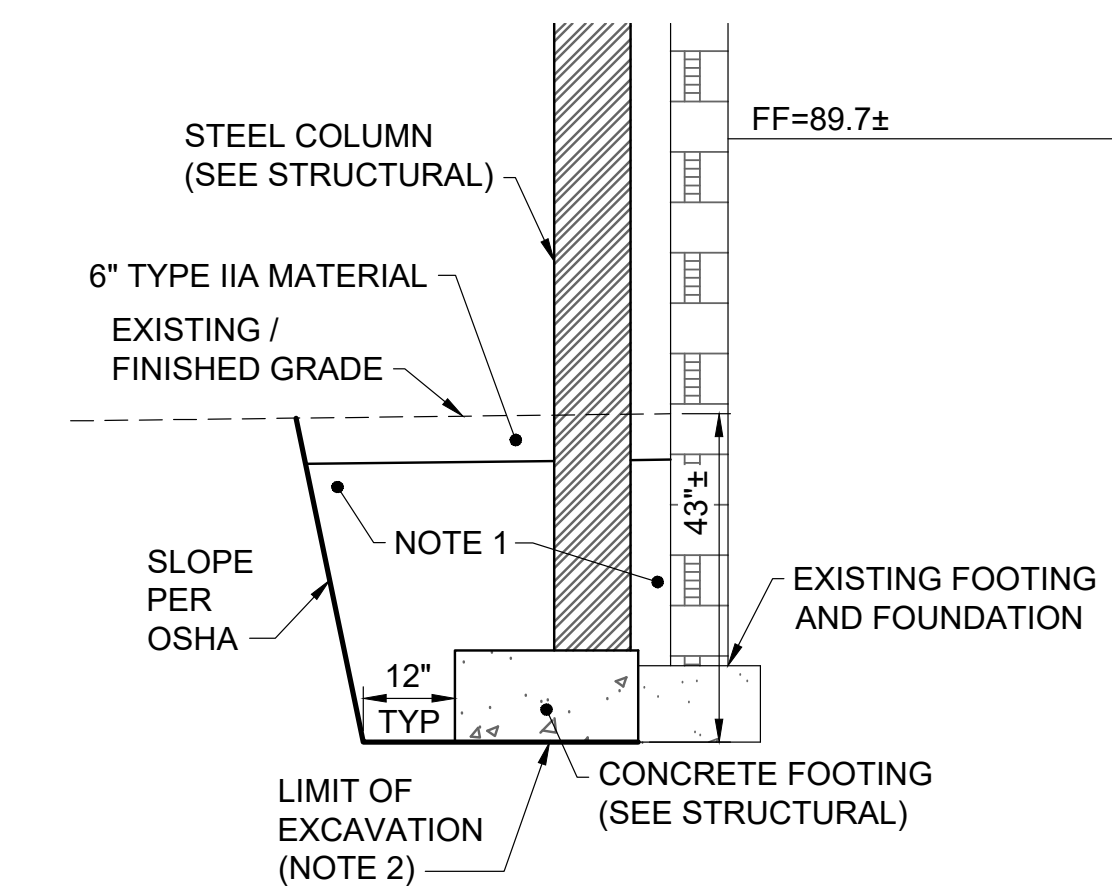
Anchorage School District

REVISIONS

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	No Description	

NOTES

1. REUSE EXISTING NON-ORGANIC MATERIAL.
2. DO NOT UNDERMINE EXISTING FOUNDATION.
3. REMOVE AND REINSTALL GATE AS NEEDED FOR CONSTRUCTION.



CANOPY FOUNDATION SECTION

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



ENTERPRISE ENGINEERING, INC.

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ANCHORAGE, AK 99503  
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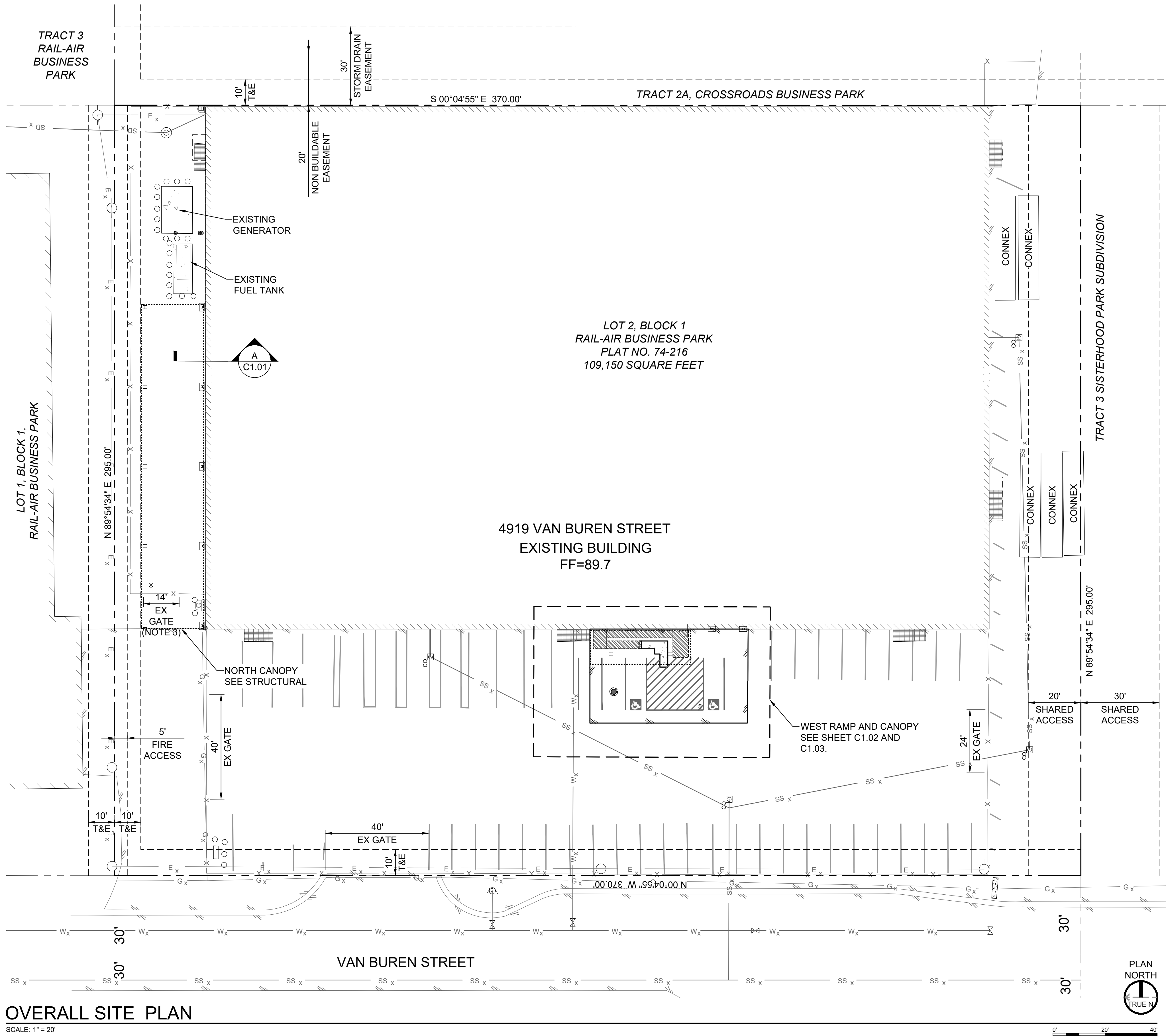
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4919 VAN BUREN ST

BDS Project No.: 023003  
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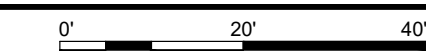
OVERALL SITE PLAN

C1.01



OVERALL SITE PLAN

SCALE: 1" = 20'



Plot Date: Dec 18, 2023 - 7:52am Drawing File: P:\projects\10163\Cad\CadCurrent\Cad\10163-C101\_EEI.dwg Last modified by: parpanr





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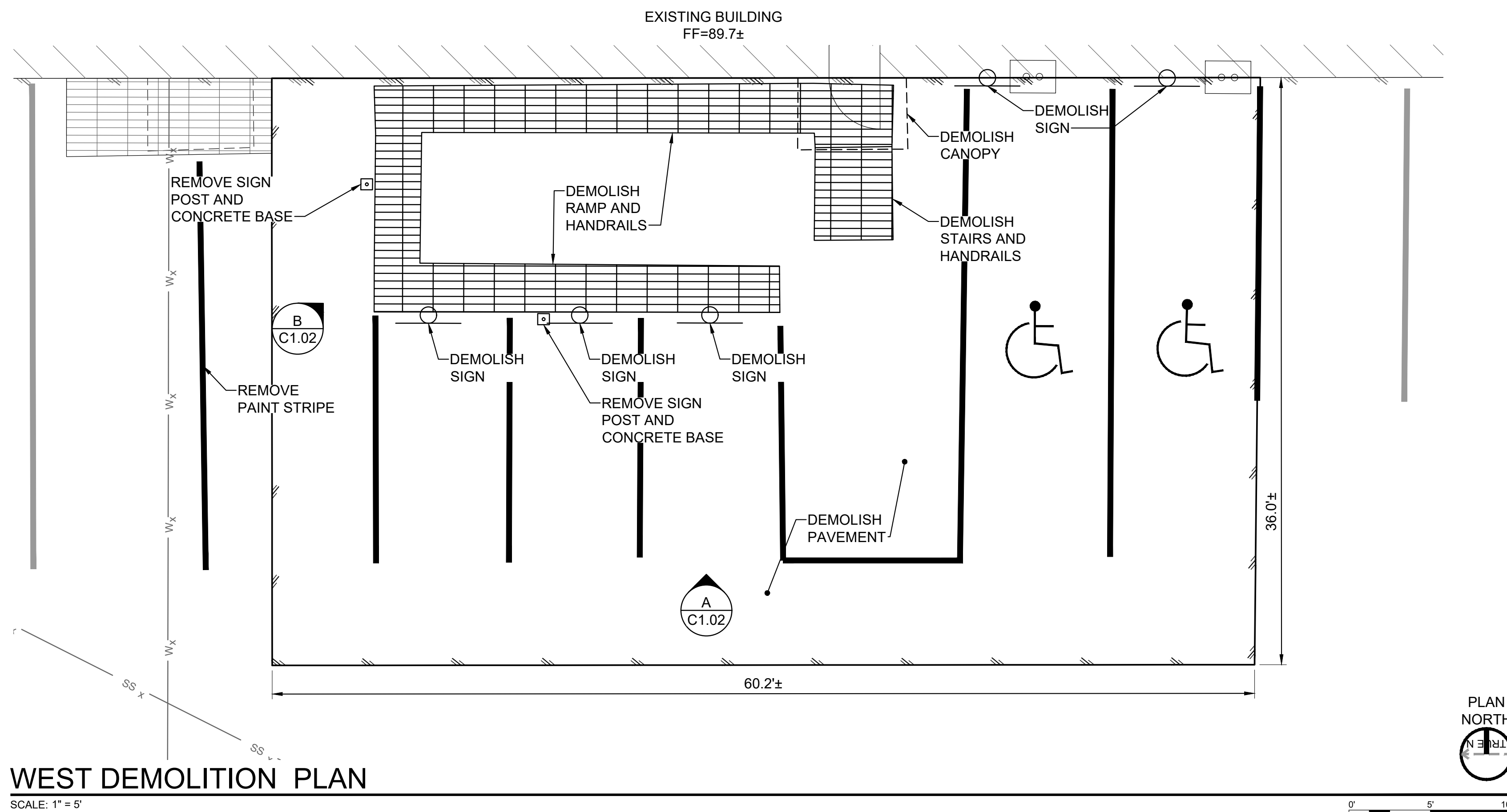
1. SEE ARCHITECTURAL FOR ADDITIONAL DEMOLITION DRAWINGS.
2. THIS IS A PRIMARY ENTRANCE TO THE BUILDING. MINIMIZE DOWNTIME. COORDINATE PLAN FOR TEMPORARY ACCESS WITH OWNER.



**A** DEMOLITION PHOTO 1  
SCALE: NTS

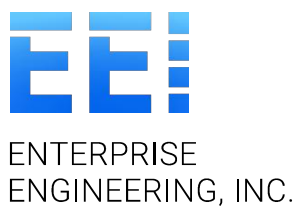


**B** DEMOLITION PHOTO 2  
SCALE: NTS



**WEST DEMOLITION PLAN**  
SCALE: 1" = 5'

Plot Date: Dec 18, 2023 - 7:52am Drawing File: P:\projects\10163\CartCurrent\Civil\10163-C1.02\_EEI.dwg Last modified by: parpanr



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**BDS ARCHITECTS**  
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4919 VAN BUREN ST

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**WEST DEMOLITION PLAN**  
**C1.02**

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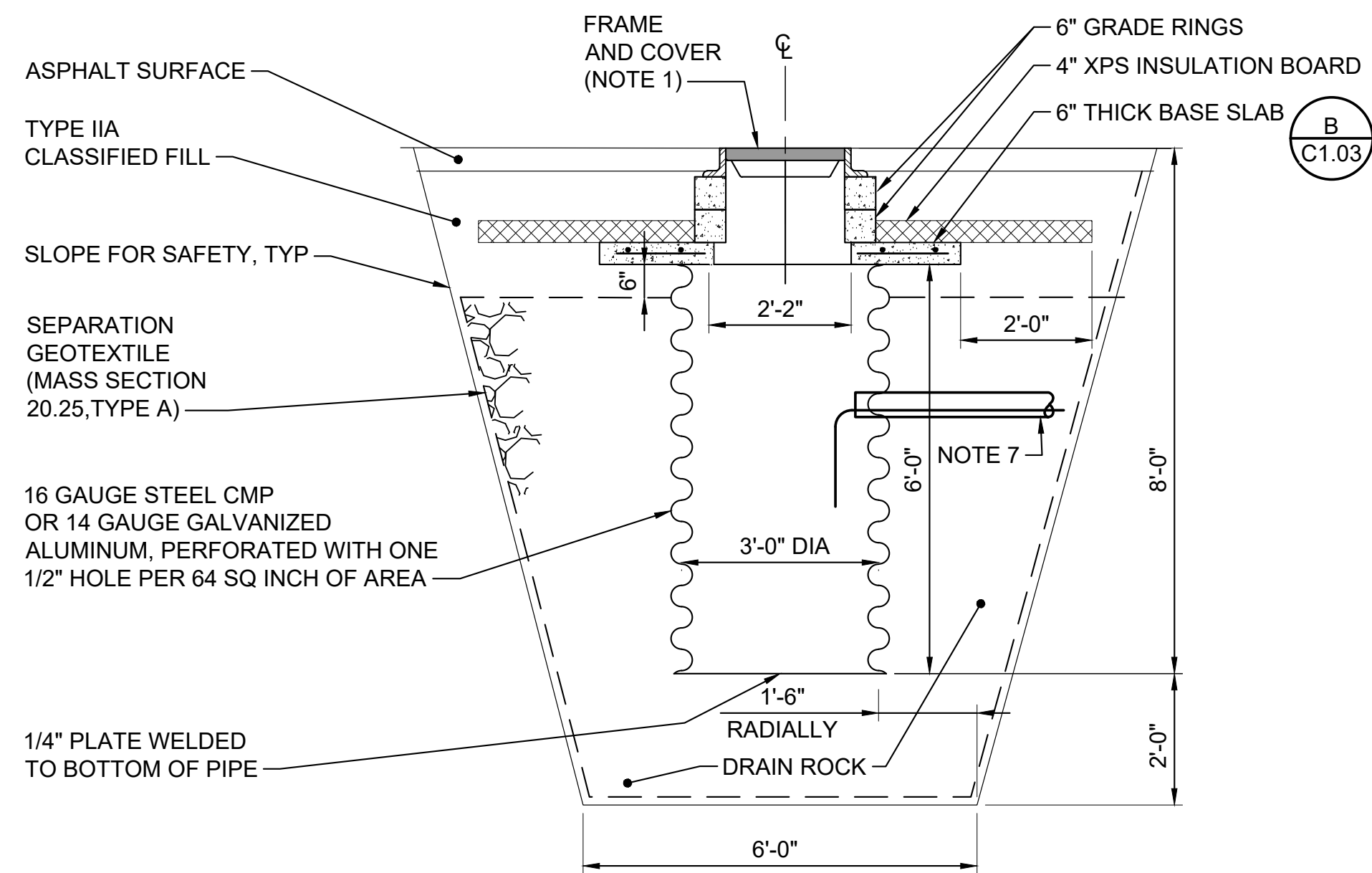
Anchorage School District

REVISIONS

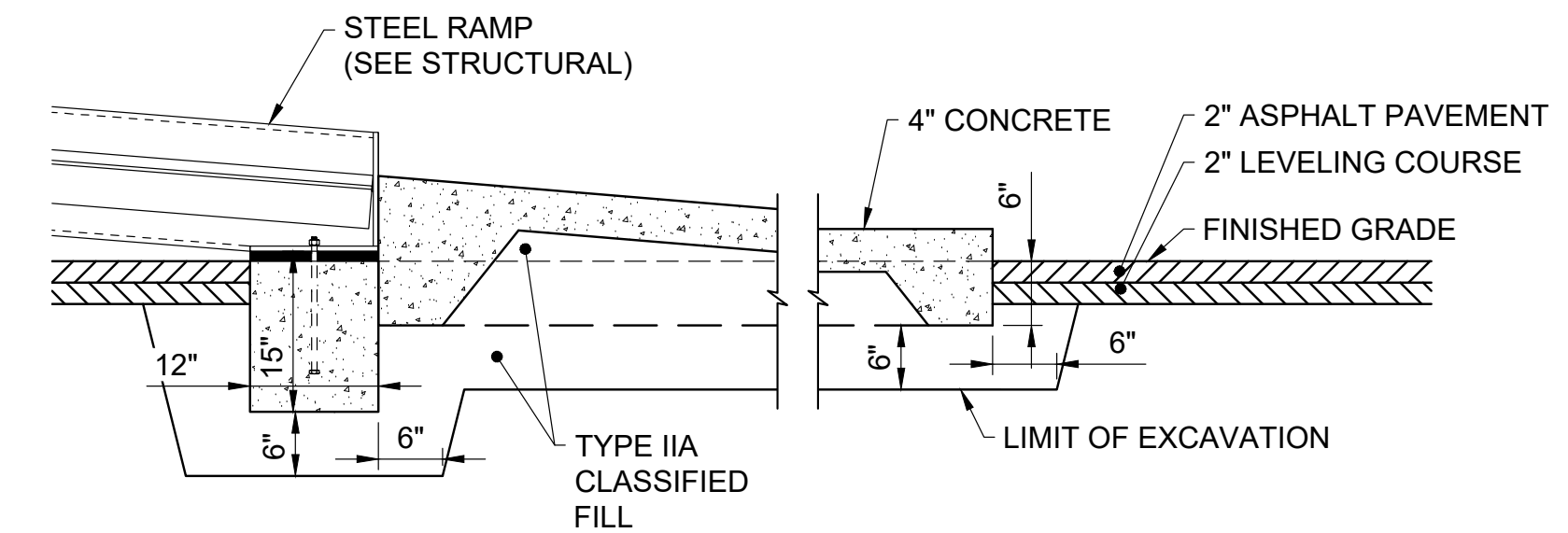
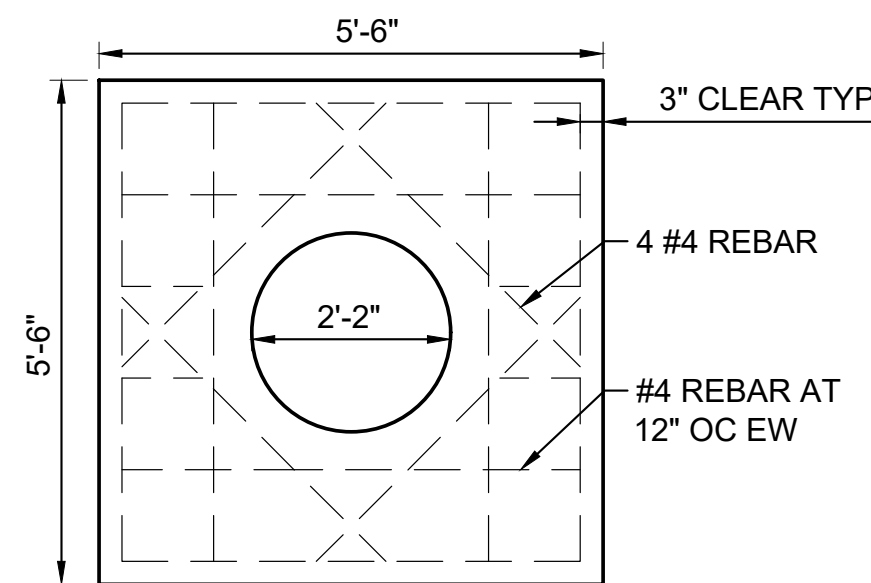
No	Description	Date
1.	No Description	

**NOTES**

- SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR RAMP, STAIR, HANDRAIL, AND CANOPY DETAILS.
- SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT TO THE LIMITS OF NEW PAVEMENT SHOWN.
- BASIS OF LAYOUT IS NORTH SIDE OF EXISTING DOOR. TOP OF RAMP MUST BE AT LEAST 2 FEET TO EDGE OF DOOR.
- BACKFILL EXCAVATIONS IN THE WEST PARKING LOT WITH TYPE IIA CLASSIFIED MATERIAL PER MASS SECTION 20.21. COMPACT TO 95% DENSITY PER AASHTO STANDARD METHOD T-180-D.
- PROVIDE A MINIMUM OF 2 INCHES THICK ASPHALT PAVEMENT OVER 2 INCHES OF LEVELING COURSE. ASPHALT MUST BE CLASS E. PROVIDE ASPHALT PAVEMENT PER MASS SECTION 40.06. IF NEEDED, PROVIDE TYPE IIA MATERIAL BENEATH ASPHALT TO BRING THE SUBGRADE TO PROPER ELEVATION. COMPACT TO AT LEAST 96% OF MAXIMUM DENSITY PER ASTM D2041.
- PROVIDE STRIPING OF THE COLOR INDICATED ON DRAWINGS PER MASS SECTION 70.10.
- CONTINUE INSULATED PIPE (SEE MECHANICAL DRAWINGS) WITH HEAT TRACE (SEE ELECTRICAL DRAWINGS) TO DRYWELL, TERMINATE INSIDE OF DRYWELL.



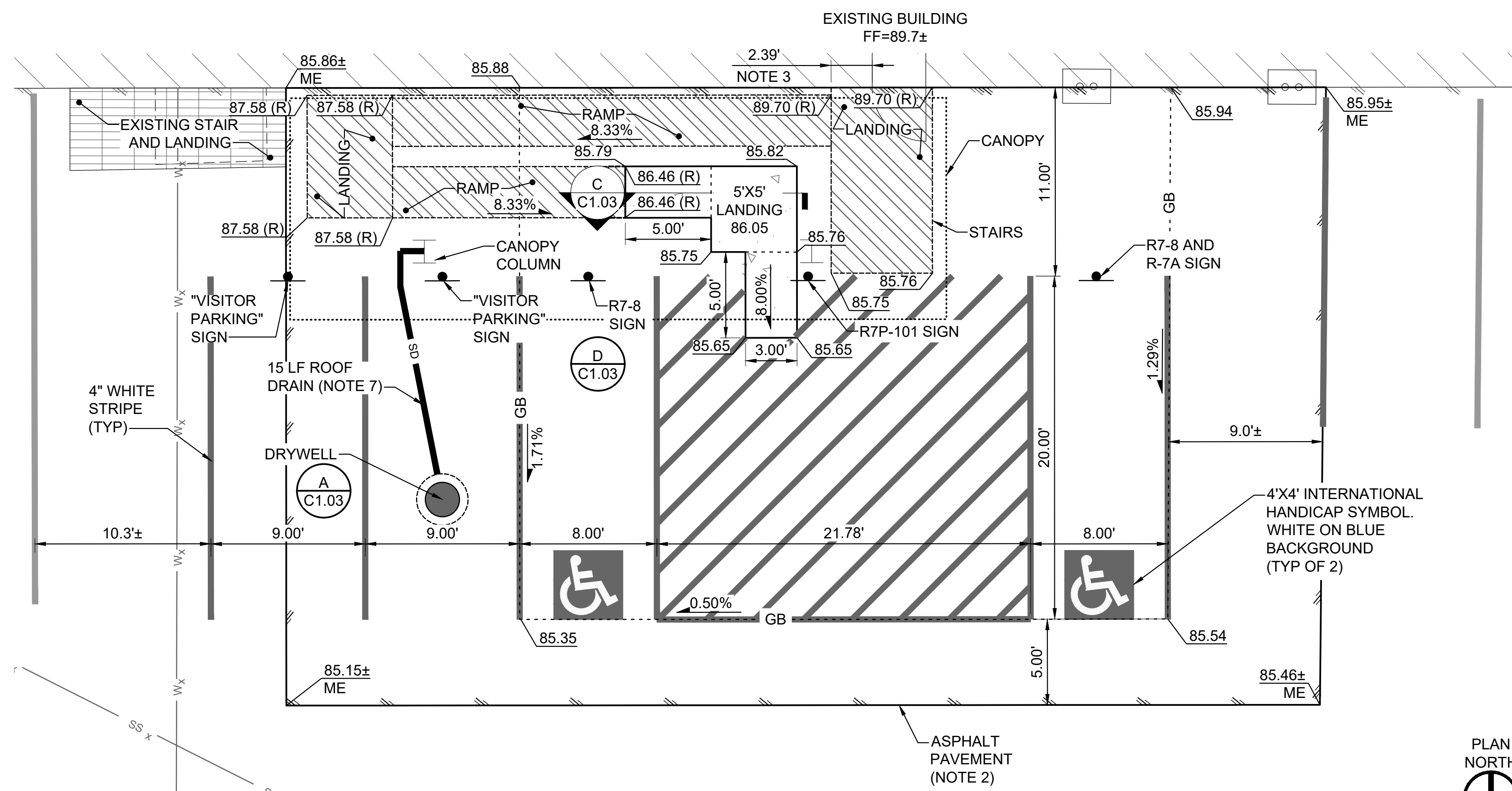
NOTE  
1. FRAME MUST BE PER MASS DETAIL 50-09. COVER MUST BE PER MASS DETAIL 55-7.



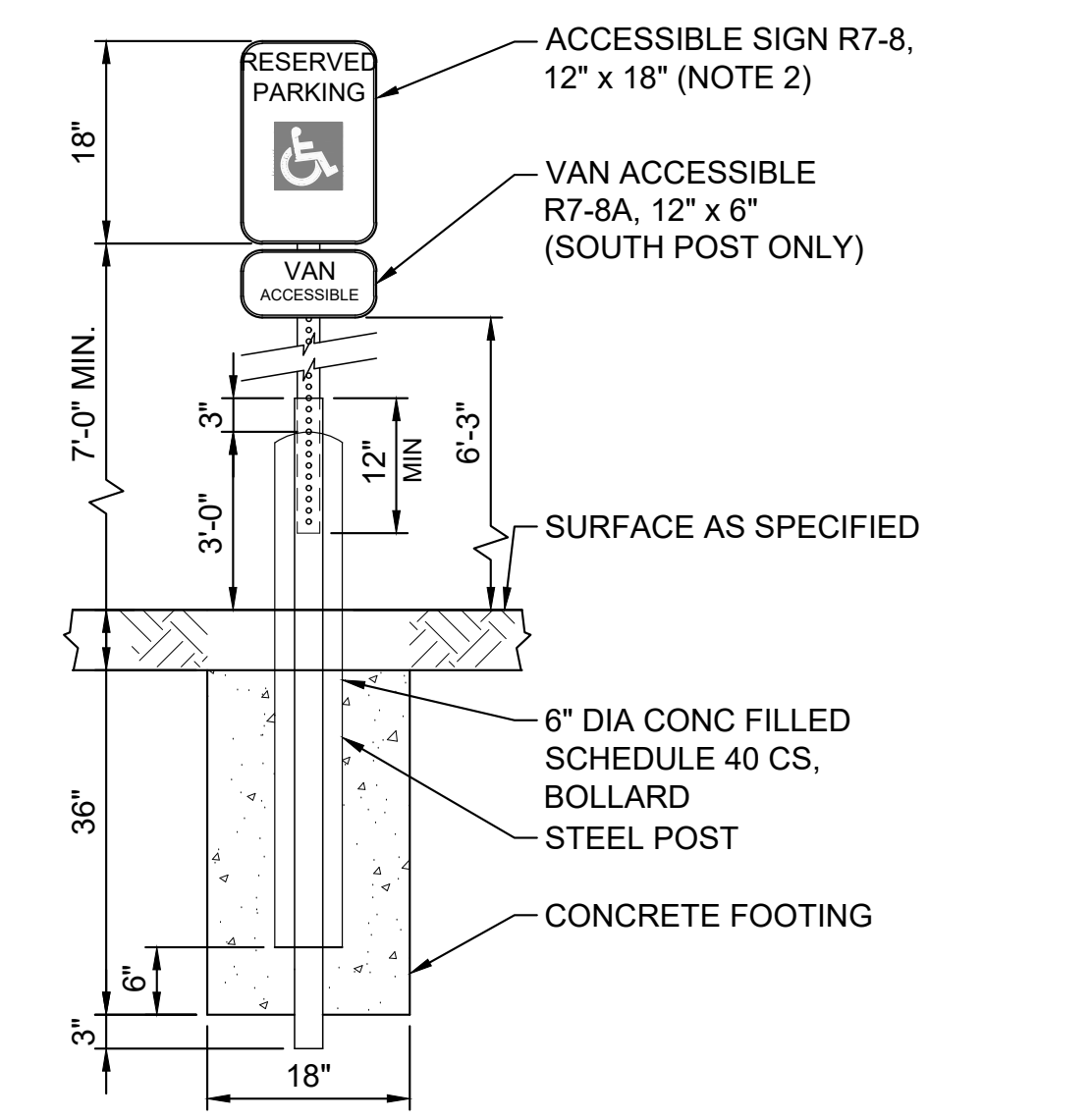
**A DRYWELL DETAIL**  
SCALE: 1/2" = 1'-0"

**B BASE SLAB DETAIL**  
SCALE: 1/2" = 1'-0"

**C RAMP LANDING DETAIL**  
SCALE: 1/2" = 1'-0"

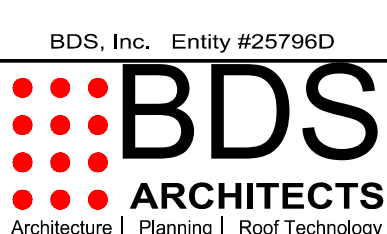


**WEST SITE AND GRADING PLAN**  
SCALE: 1" = 5'



- NOTES**
- SEE MASS SECTION 70.11 FOR CONSTRUCTION REQUIREMENTS.
  - SIGN AS INDICATED ON PLANS.

**D POST MOUNTED SIGN**  
SCALE: 3/4" = 1'-0"



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PURCHASING/WAREHOUSE ROOF REPLACEMENT AND STRUCTURAL UPGRADES  
4919 VAN BUREN ST  
BDS Project No.: 023003  
Client Project No.: 065006  
BID DOCUMENTS  
December 18, 2023

WEST SITE AND GRADING PLAN

**C1.03**

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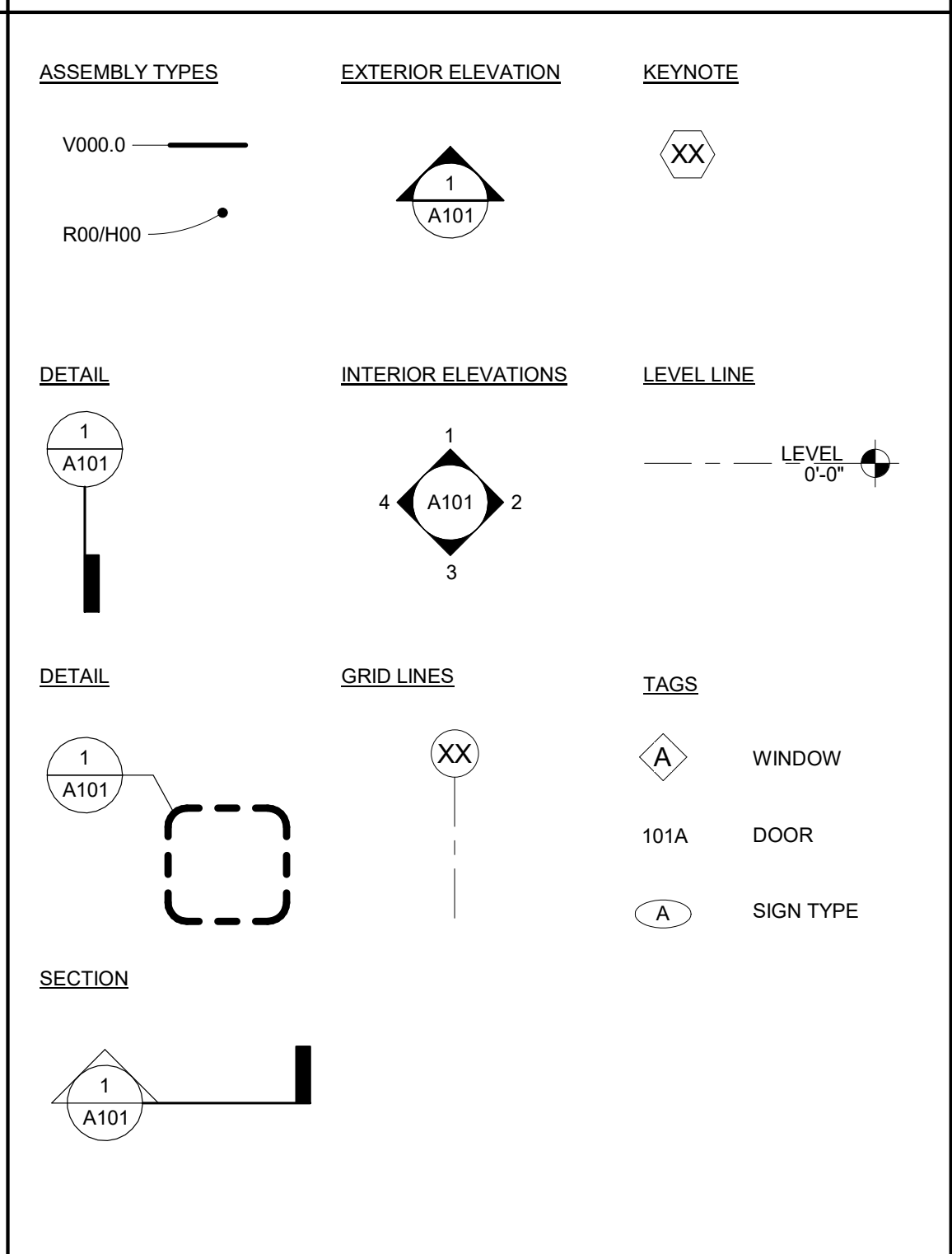
Plot Date: Dec 18, 2023 - 7:52am Drawing File: P:\projects\10163\CartCurrent\C1.03-C1.03\_EEI.dwg Last modified by: parpanr



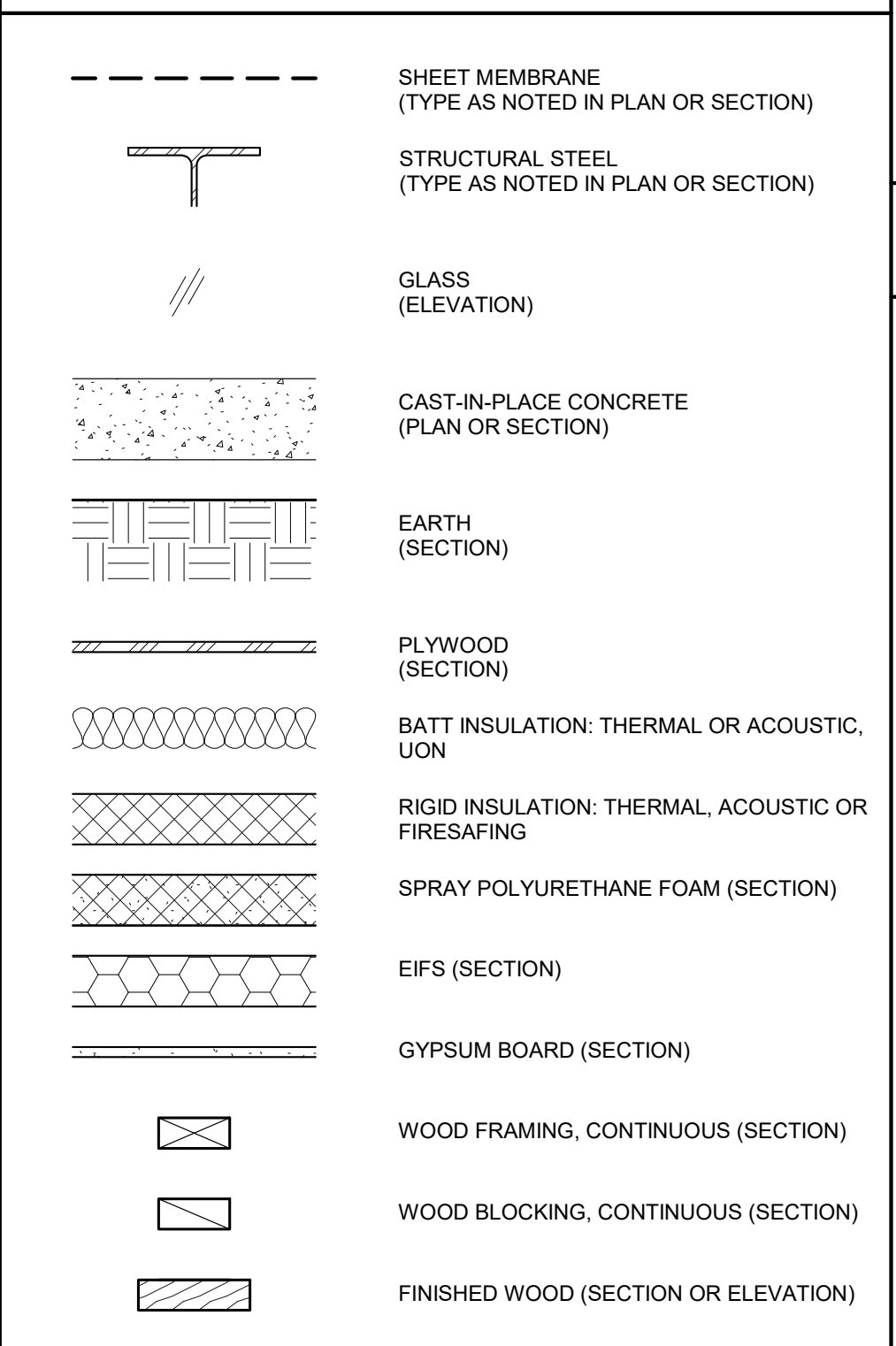
# ARCHITECTURAL ABBREVIATIONS

#	NUMBER	IBC	INTERNATIONAL BUILDING CODE	T&G	TONGUE AND GROOVE
&	AND	IFC	INTERNATIONAL FIRE CODE	TB	TACK BOARD
@	AT	IHM	INSULATED HOLLOW METAL	TBD	TO BE DETERMINED
		IN	INCH	TEMP	TEMPORARY
AB	ANCHOR BOLT	INCL	INCLUDED	THRES	THRESHOLD
ABV	ABOVE	INFO	INFORMATION	THRU	THROUGH
A/C	AIR CONDITIONING	INSUL	INSULATION	THK	THICKNESS
ACM	ASBESTOS CONTAINING MATERIALS	INT	INTERIOR	TLT	TOILET
ACOUS	ACOUSTICAL	TO	TOP OF	TOC	TOP OF CONCRETE
ACT	ACOUSTICAL CEILING TILE	J-BOX	JUNCTION BOX	TOD	TOP OF DECK
ADD ALT	ADDITIVE ALTERNATE	JT	JOINT	TOFF	TOP OF FINISHED FLOOR
ADDL	ADDITIONAL	KD	KNOCK DOWN	TOM	TOP OF MASONRY
ADJ	ADJACENT	KIT	KITCHEN	TOP	TOP OF PARAPET
ADJ	ADJACENT	TOF	TOP OF SLAB	TOS	TOP OF WALL
ALT	ALTERNATE	L	LENGTH	TPD	TOILET PAPER DISPENSER
ALUM	ALUMINUM	LAM	LIQUID APPLIED MEMBRANE	TPH	TOILET PAPER HOLDER
ANOD	ANODIZED	LAV	LAVATORY	TSTAT	THERMOSTAT
APPROX	APPROXIMATE	LB	POUND	TV	TELEVISION
ARCH	ARCHITECTURAL	LB/SF	POUND PER SQUARE FOOT	TYP	TYPICAL
AWW	ALL WEATHER WOOD	LF	LINEAR FOOT		
		LG	LIGHT GUARD INSULATION BOARD	UH	UNIT HEATER
BB	BASE BID	LR	LIVING ROOM	UL	UNDERWRITERS LABORATORY
BD	BOARD	LVR	LOUVER	UON	UNLESS OTHERWISE NOTED
BKBD	BACK BOARD	LVT	LUXURY VINYL TILE		
BLDG	BUILDING			VCT	VINYL COMPOSITION TILE
BLKG	BLOCKING	MAX	MAXIMUM	VERT	VERTICAL
BM	BEAM	MBR	MEMBRANE	VEST	VESTIBULE
BO	BOTTOM OF	MECH	MECHANICAL	VIF	VERIFY IN FIELD
BOD	BOTTOM OF DECK	MEZZ	MEZZANINE	VR	VAPOR RETARDER
BR	BEDROOM	MFR	MANUFACTURER	VTR	VENT THROUGH ROOF
BSMT	BASEMENT	MIL	MILLIMETER		
BTWN	BETWEEN	MIN	MINIMUM	W	WIDE
BUR	BUILT UP ROOFING (ASPHALT)	MISC	MISCELLANEOUS	W/	WITH
		MO	MASONRY OPENING	W/O	WITHOUT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	MR	MOISTURE RESISTANT	WD	WOOD
CG	CORNER GUARD	MTD	MOUNTED	WDW	WINDOW
CJ	CONTROL JOINT	MTL	METAL	WH	WATER HEATER
CL	CENTER LINE			WWF	WELED WIRE FABRIC
CLO	CLOSET	(N)	NEW	XPS	EXTRUDED POLYSTYRENE
CLR	CLEAR	N/A	NOT APPLICABLE		
CLG	CEILING	NFS	NON FROST SUSCEPTIBLE		
CLG	CEILING	NIC	NOT IN CONTRACT		
CMP	CORRUGATED METAL PIPE	NOM	NOMINAL		
CMU	CONCRETE MASONRY UNIT	NRCA	NATIONAL ROOFING CONTRACTOR'S ASSOCIATION		
COL	COLUMN	NTS	NOT TO SCALE		
CONC	CONCRETE			OC	ON CENTER
CONC	CONCRETE			OD	OUTSIDE DIAMETER
CONST	CONSTRUCTION			OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CONT	CONTINUOUS			OFOI	OWNER FURNISHED, OWNER INSTALLED
CONTR	CONTRACTOR			OF	OVERFLOW SCUPPER
COORD	COORDINATE			OH	OVERHEAD
CORR	CORRIDOR			OPNNG	OPENING
CPT	CARPET			OPP	OPPOSITE
CSK	COUNTERSINK			OSB	ORIENTED STRAND BOARD
CT	CERAMIC TILE			ORD	OVERFLOW ROOF DRAIN
CTR	CENTER			OVHD	OVER HEAD
CUH	CABINET UNIT HEATER			OZ	OUNCE
				P	PAINT
D	DEEP / DEPTH			PA	PUBLIC ADDRESS
DBL	DOUBLE			PERIM	PERIMETER
DEG	DEGREE			PH	PENTHOUSE
DEMO	DEMOLISH / DEMOLITION			PLAM	PLASTIC LAMINATE
DEPT	DEPARTMENT			PLYWD	PLYWOOD
DF	DRINKING FOUNTAIN			PNL	PANEL
DIA	DIAMETER			POLY	POLYETHYLENE SHEET
DIAG	DIAGONAL			POLYISO	POLYISOCYANURATE INSULATION
DIM	DIMENSION			PR	PAIR
DISP	DISPENSER			PRFAB	PREFABRICATE
DN	DOWN			PROP	PROPERTY
DR	DOOR			PSF	POUNDS PER SQUARE FOOT
DS	DOWNSPOUT			PT	PRESERVATIVE TREATED
DTL	DETAIL			PTD	PAINTED / PAPER TOWEL DISPENSER
DW	DISHWASHER			PTDR	PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
DWG	DRAWING			PTR	PENETRATION THROUGH ROOF
				PVC	POLYVINYL CHLORIDE
(E)	EXISTING			R	RADIUS
EA	EACH			RA	RETURN AIR
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM			RCP	REFLECTED CEILING PLAN
EJ	EXPANSION JOINT			RD	ROOF DRAIN
ELEC	ELECTRICAL			REINF	REINFORCE
ELEV	ELEVATION			RESIL	RESILIENT
EPDM	ETHYLENE PROPYLENE DIENE MONOMER			REST	REST ROOM
EPS	EXPANDED POLYSTYRENE INSULATION			REQD	REQUIRED
EQ	EQUAL			RL	RAIN LEADER
EQUIP	EQUIPMENT			RM	ROOM
ETR	ELECTRICAL THROUGH ROOF			RO	ROUGH OPENING
EXIST	EXISTING			REF	REFERENCE
				REFRIG	REFRIGERATOR
F	FAHRENHEIT			SA	SUPPLY AIR
FD	FLOOR DRAIN			SAM	SELF ADHERING MEMBRANE
FE	FIRE EXTINGUISHER			SBS	STYRENE-BUTADIENE-STYRENE
FEC	FIRE EXTINGUISHER CABINET			SCHED	SCHEDULE
FF	FINISHED FLOOR			SCD	SEAT COVER DISPENSER
FF&E	FURNITURE, FIXTURES AND EQUIPMENT			SCP	SCUPPER
FIN	FINISH			SD	SMOKE DETECTOR / SOAP DISPENSER
FIXT	FIXTURE			SEBS	STYRENE-ETHYLENE-BUTADIENE-STYRENE
FLR	FLOOR			SECT	SECTION
FOF	FACE OF FINISH			SF	SQUARE FEET
FOM	FACE OF MASONRY			SHR	SHOWER
FOS	FACE OF STUD			SHT	SHEET
FOC	FACE OF CONCRETE			SIM	SIMILAR
FRMG	FRAMING			SIP	STRUCTURAL INSULATED PANEL
FRP	FIBERGLASS REINFORCED PLASTIC			SM	SHEET METAL
FRT	FIRE RETARDANT TREATED			SND	SANITARY NAPKIN DISPENSER
FT	FEET			SNDU	SANITARY NAPKIN DISPOSAL UNIT
FTG	FOOTING			SPEC	SPECIFICATION
				SPKLR	SPRINKLER
				SPKR	SPEAKER
				SPF	SPRAY POLYURETHANE FOAM
				SQ	SQUARE
				SS	STAINLESS STEEL
				STD	STANDARD
				STL	STEEL
				STOR	STORAGE
				STRUC	STRUCTURAL
				SVF	SHEET VINYL FLOORING

# REFERENCE SYMBOLS



# MATERIAL SYMBOLS



# GENERAL NOTES

- THESE DRAWINGS WERE PREPARED FROM AS-BUILT DOCUMENTS PROVIDED BY THE. ACTUAL FIELD CONDITIONS MAY DEVIATE FROM THESE DRAWINGS. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS OF EXISTING CONSTRUCTION IMPACTED BY THE WORK. DIMENSIONAL HIERARCHY:
  - AS SPECIFICALLY NOTES
  - BUILDING GRIDLINES
  - FACE OF STUDS
  - FACE OF CONCRETE/MASONRY
  - FACE OF FINISH MATERIALS
- CONTRACTOR TO LABEL ALL RATED CONSTRUCTION IN ACCORDANCE WITH IBC 2021 SECTION 703.6



**REVISIONS**

No	Description	Date



BDS, Inc., Entity #25796D

**BDS ARCHITECTS**  
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Checked by: RA

PURCHASING/WAREHOUSE  
ROOF REPLACEMENT AND  
STRUCTURAL UPGRADES  
4919 VAN BUREN ST

BDS Project No.: 023003  
Client Project No.: 065006

BID DOCUMENTS  
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# ABBREVIATIONS AND SYMBOLS A0.01

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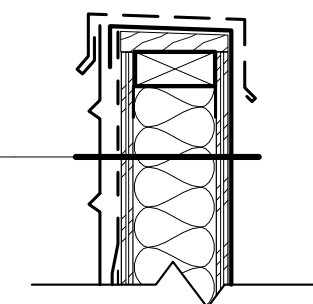
Anchorage School District

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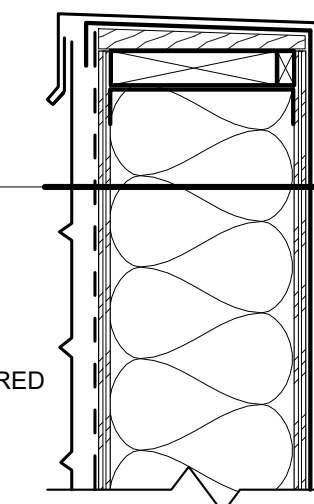
VERTICAL ASSEMBLIES

- CANOPY PARAPET WALL ASSEMBLY
- SHEET METAL
  - AIR BARRIER
  - 1/2" PLYWOOD
  - 2X4 METAL STUDS
  - BATT INSULATION
  - 1/2" PLYWOOD
  - 90 MIL EPDM FULLY ADHERED



V02

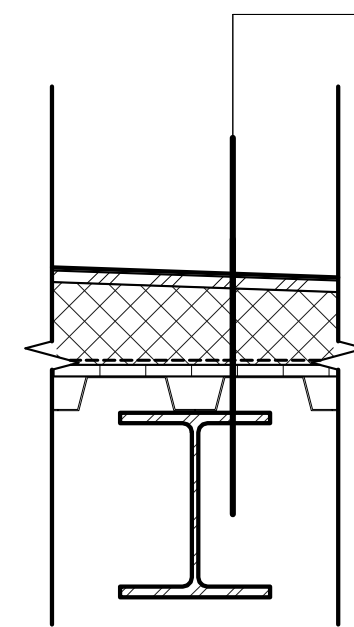
- PARAPET WALL ASSEMBLY
- SHEET METAL
  - AIR BARRIER
  - 1/2" PLYWOOD
  - 2X10 METAL STUDS
  - BATT INSULATION
  - 1/2" PLYWOOD
  - 90 MIL EPDM FULLY ADHERED



V01

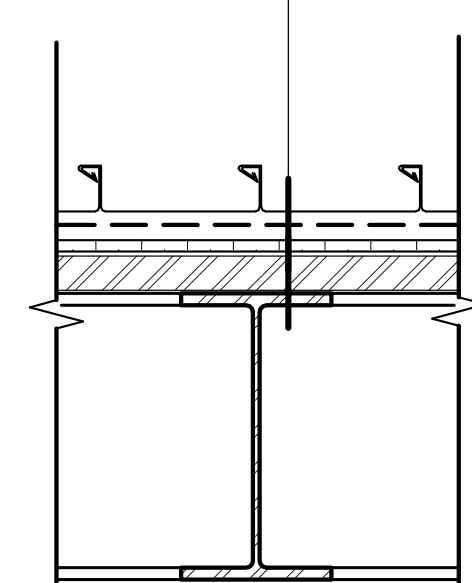
HORIZONTAL ASSEMBLIES

- 90 MIL EPDM MEMBRANE
- 1/2" HD COVERBOARD POLYISO.
- RIGID INSULATION (TAPERED)
- VAPOR BARRIER
- 1/2" DENSDECK
- METAL DECK
- STRUCTURAL STEEL



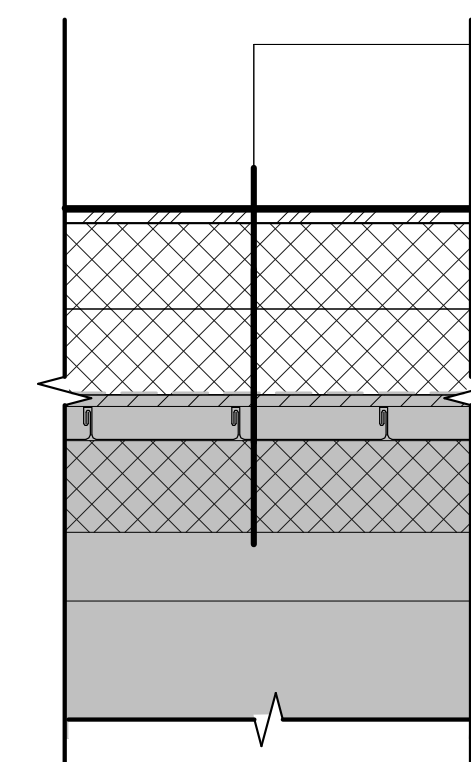
C02

- METAL ROOF
- ICE AND WATER SHIELD
- 1/2" DENSDECK
- 1-1/2" METAL DECK
- STRUCTURAL STEEL



C01

- 90 MIL EPDM MEMBRANE
- 1/2" HD COVERBOARD POLYISO.
- (2-LAYERS) 3.75" RIGID INSULATION
- SAM LAYER OVER EXISTING BUR
- EXISTING BUR VAPOR BARRIER
- PLYWOOD TO REMAIN
- EXISTING METAL ROOFING
- EXISTING INSULATION TO REMAIN



R01



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PURCHASING/WAREHOUSE  
 ROOF REPLACEMENT AND  
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 4919 VAN BUREN ST

BDS Project No.: 023003  
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ASSEMBLIES  
**A0.02**





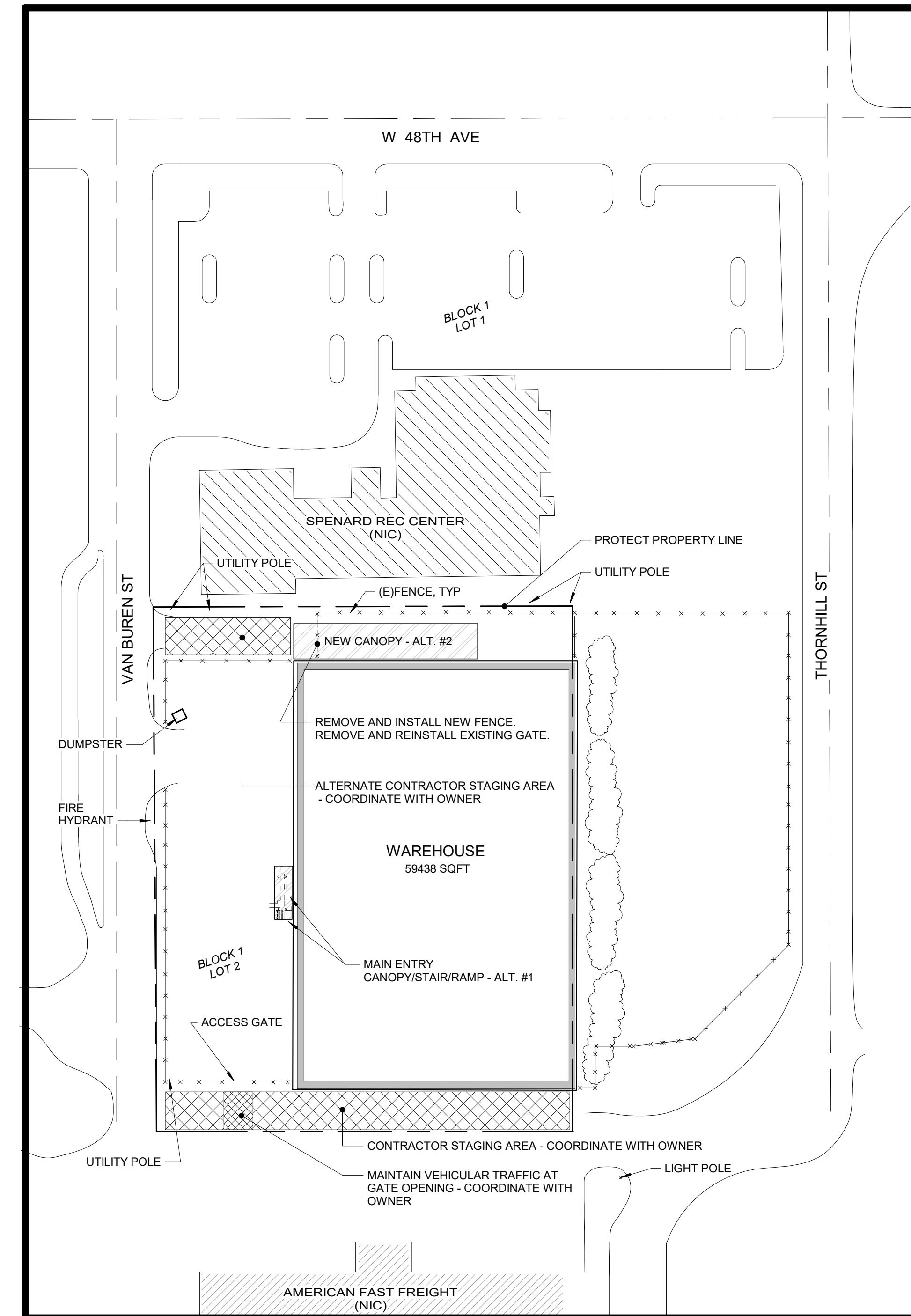
Anchorage School District

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No	Description	Date

ROOF SECTION CHART													
ROOF SECTION	ROOF ASSEMBLY	(E) DECK ROOF SLOPE	FLAT INSULATION	MIN TAPERED INSUL THICKNESS AT ROOF DRAIN (DOES NOT INCLUDE FLAT)	(E) ROOF DECK	TAPERED INSULATION ADDED SLOPE	TAPERED INSULATION ADDED	MAXIMUM THICKNES S AT EDGE	BUILDING LOCATION	NOTES	ASHRAE 90.1 MIN. R-VALUE	(N) ROOF ASSEMBLY AVG R-VALUE*	
A	R01	EPDM	1:12	2-LAYERS 3.75"	1.0"	BUILT-UP	CRICKET ONLY	CRICKET VARIES MIN. 3/8:12	22"	MAIN ROOF	BASE BID	35	35
B1		METAL ROOF	12:12	NONE	NONE	N/A	N/A	N/A	N/A	ENTRY CANOPY	NOT IN SCOPE	N/A	N/A
B2		METAL ROOF	12:12	NONE	NONE	N/A	N/A	N/A	N/A	ENTRY CANOPY	NOT IN SCOPE	N/A	N/A
B3		METAL ROOF	12:12	NONE	NONE	N/A	N/A	N/A	N/A	ENTRY CANOPY	NOT IN SCOPE	N/A	N/A
B4		METAL ROOF	12:12	NONE	NONE	N/A	N/A	N/A	N/A	ENTRY CANOPY	TO BE DEMOLISHED	N/A	N/A
B5		METAL ROOF	4:12	NONE	NONE	N/A	N/A	N/A	N/A	ENTRY CANOPY	NOT IN SCOPE	N/A	N/A
B6		METAL ROOF	12:12	NONE	NONE	N/A	N/A	N/A	N/A	ENTRY CANOPY	NOT IN SCOPE	N/A	N/A
C	C02	EPDM	0:12 (NONE)	NONE	1.0"	N/A	SHORT DIM.	VARIES (MIN. 3/8":12)	7"	MAIN ENTRY CANOPY	ADD ALTERNATE NO. 1	N/A	N/A
D	C01	METAL ROOF	2:12	NONE	NONE	N/A	N/A	N/A	N/A	NORTH EXTERIOR CANOPY	ADD ALTERNATE NO. 2	N/A	N/A

ROOF DRAINAGE INFORMATION CHART					
ROOF DRAIN DESIGNATION	ROOF DRAIN SIZE (INCHES)	ROOF SQUARE FEET (SF)	RD HEIGHT ABOVE FLOOR (FEET)	CEILING FINISH	NOTES
A-1	3	5975	20' - 4"	NONE	OVERFLOW DRAIN - EQUAL TO MAIN DRAIN
A-2	3	5975	20' - 4"	NONE	OVERFLOW DRAIN - EQUAL TO MAIN DRAIN
A-3	3	5975	20' - 4"	NONE	OVERFLOW DRAIN - EQUAL TO MAIN DRAIN
A-4	3	5975	20' - 4"	NONE	OVERFLOW DRAIN - EQUAL TO MAIN DRAIN
A-5	3	5975	20' - 4"	NONE	OVERFLOW DRAIN - EQUAL TO MAIN DRAIN
A-6	3	5975	20' - 4"	NONE	OVERFLOW DRAIN - EQUAL TO MAIN DRAIN
A-7	3	5975	20' - 4"	NONE	OVERFLOW DRAIN - EQUAL TO MAIN DRAIN
A-8	3	5975	20' - 4"	NONE	OVERFLOW DRAIN - EQUAL TO MAIN DRAIN
A-9	3	5975	20' - 4"	NONE	OVERFLOW DRAIN - EQUAL TO MAIN DRAIN
A-10	3	5975	20' - 4"	NONE	OVERFLOW DRAIN - EQUAL TO MAIN DRAIN
C-1	3	457	10' - 8"	N/A	OVERFLOW DRAIN - EQUAL TO MAIN DRAIN

**2** ROOF INFORMATION  
A0.03 SCALE: 12" = 1'-0"



**1** ARCHITECTURAL SITE PLAN  
A0.03 SCALE: 1" = 60'-0"

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December 18, 2023

ARCH SITE  
PLAN & ROOF  
INFORMATION  
**A0.03**



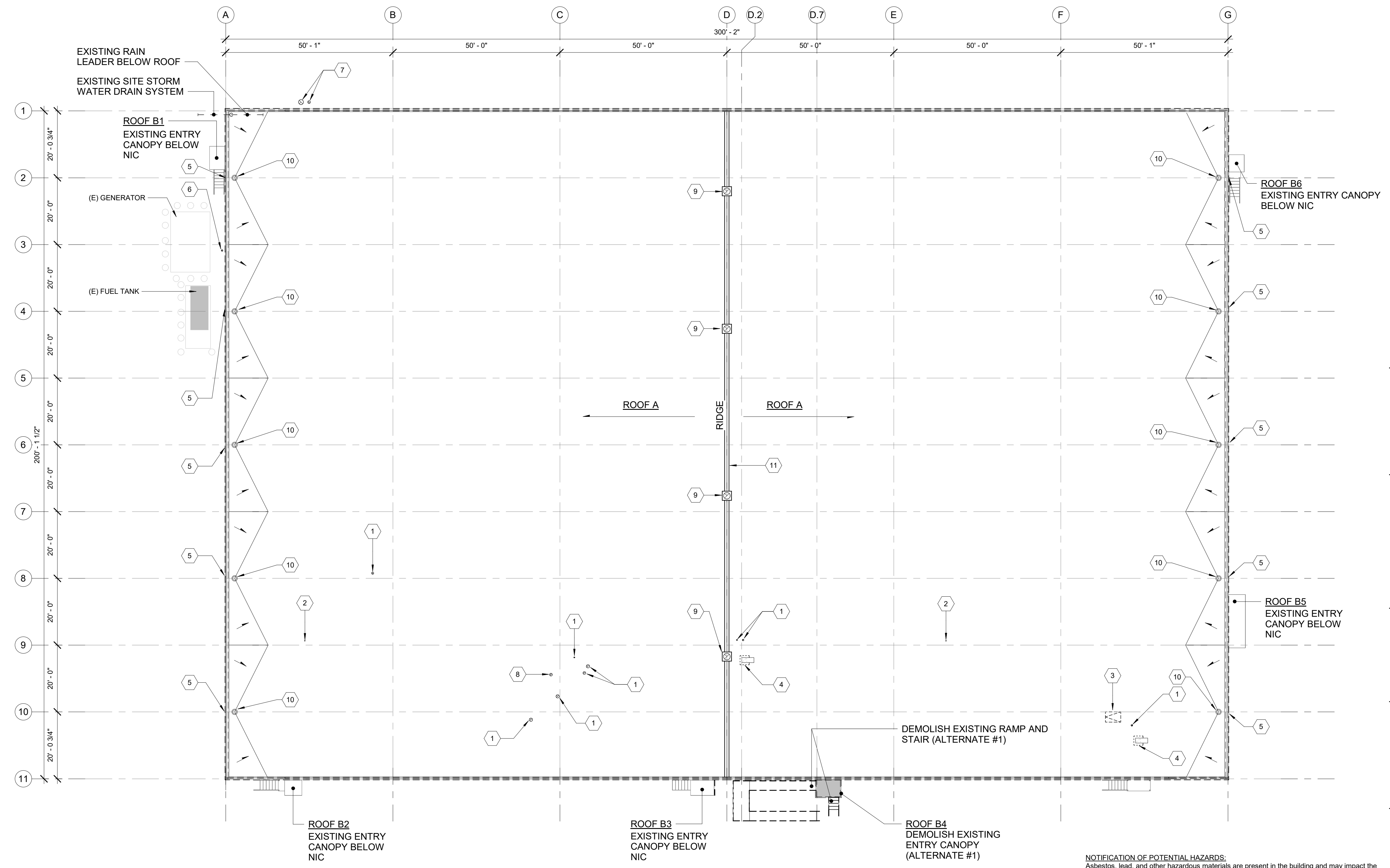
KEYNOTES		NOTES	
NUMBER	KEYNOTE	NUMBER	KEYNOTE
1	EXISTING ROOF PENETRATION TO REMAIN. PREPARE FOR NEW WORK.	8	DEMOLISH EXISTING CAPPED DUCT TO BELOW ROOF. CAP AS REQUIRED. VERIFY LOCATION WITH OWNER PRIOR TO BEGINNING WORK. REFER TO MECHANICAL.
2	ABANDONED 5/8" COPPER TUBING LINE. CAP BELOW ROOF. VERIFY LOCATION AND APPROVE WITH OWNER PRIOR TO BEGINNING WORK.	9	EXISTING GRAVITY ROOF VENT TO BE REMOVED AND STORED FOR REINSTALLATION. PROTECT THROUGH ALL PHASES OF WORK. EXISTING CURB TO BE DEMOLISHED. REFER TO MECHANICAL.
3	EXISTING ROOF HATCH TO BE DEMOLISHED. PREPARE OPENING FOR NEW WORK AND PROTECT DURING ALL PHASES OF WORK.	10	EXISTING ROOF DRAIN TO BE DEMOLISHED. REFER TO MECHANICAL DRAWINGS.
4	DEMOLISH EXISTING CURB.	11	DEMOLISH EXISTING RIDGE EXPANSION CONTROL JOINT.
5	DEMOLISH EXISTING SCUPPER.		
6	EXISTING GENERATOR EXHAUST PIPE TO REMAIN. PROVIDE TEMPORARY SUPPORT THROUGH CONSTRUCTION AND REATTACH TO NEW PARAPET WALL.		
7	EXISTING BOILER STACKS TO REMAIN IN PLACE. MAINTAIN AND PROTECT THROUGH ALL PHASES OF WORK.		



Anchorage School District

REVISIONS

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1 ROOF PLAN - DEMO  
AD1.01 SCALE: 1/16" = 1'-0"

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BID DOCUMENTS  
December 18, 2023

ROOF PLAN -  
DEMOLITION  
AD1.01

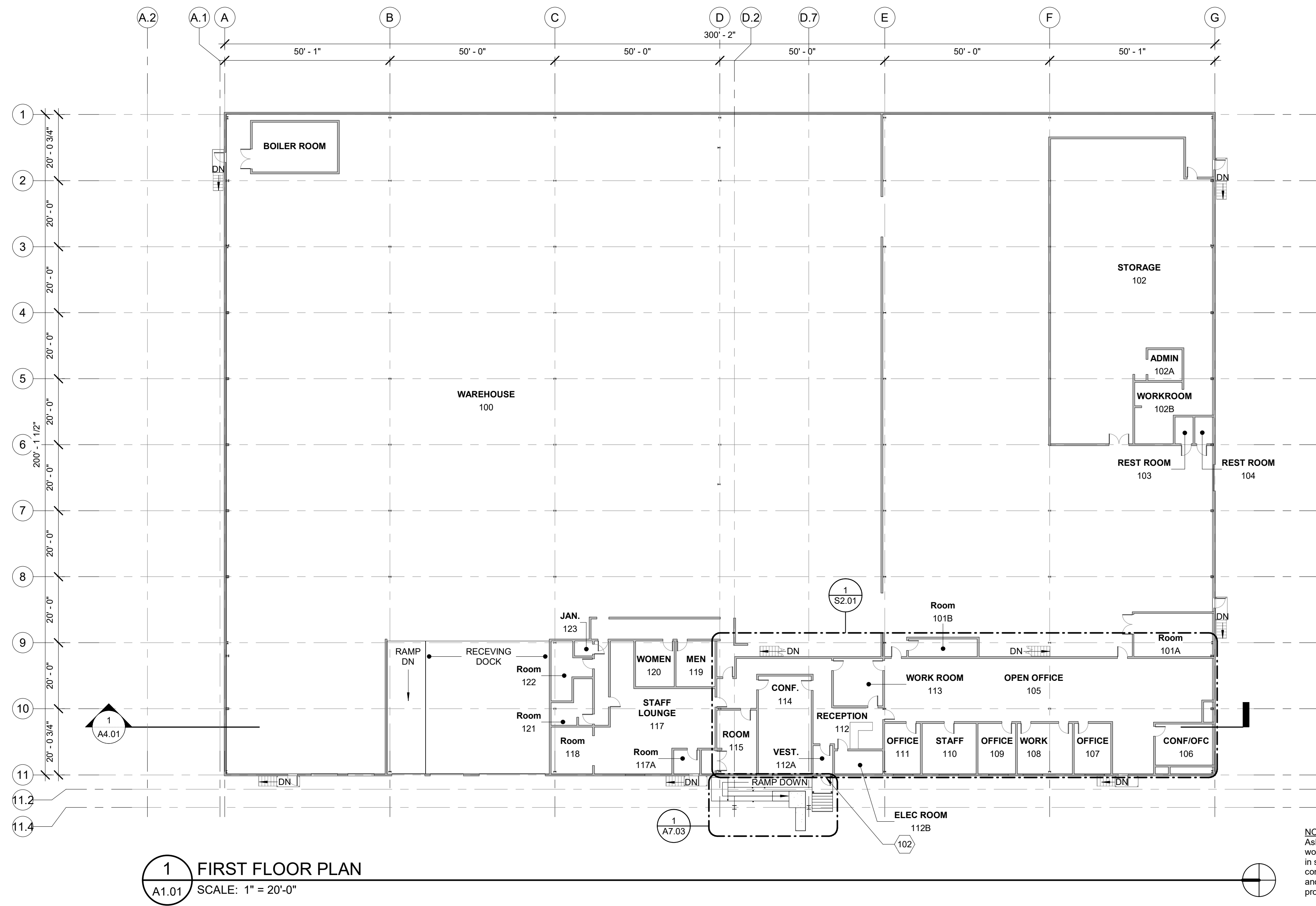
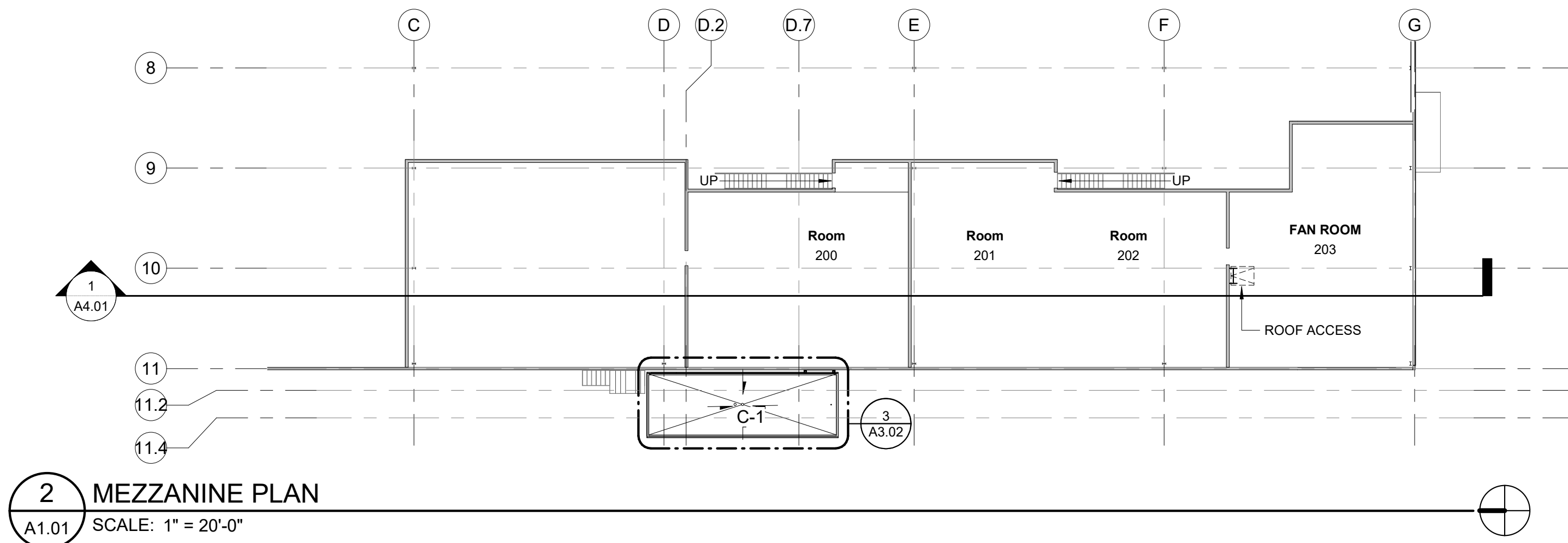




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KEYNOTES	
NUMBER	KEYNOTE
102	REPAIR/REPLACE EXISTING SIDING ABOVE ENTRY DOOR WHERE EXISTING CANOPY HAS BEEN REMOVED (ALTERNATE #1)

REVISIONS		
No	Description	Date



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BDS, Inc. Entity #25796D  
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Drawn by: NS  
Checked by: RA

**PURCHASING/WAREHOUSE ROOF REPLACEMENT AND STRUCTURAL UPGRADES**  
4919 VAN BUREN ST

BDS Project No.: 023003  
Client Project No.: 065006

BID DOCUMENTS  
December 18, 2023

**OVERALL FLOOR PLAN A1.01**



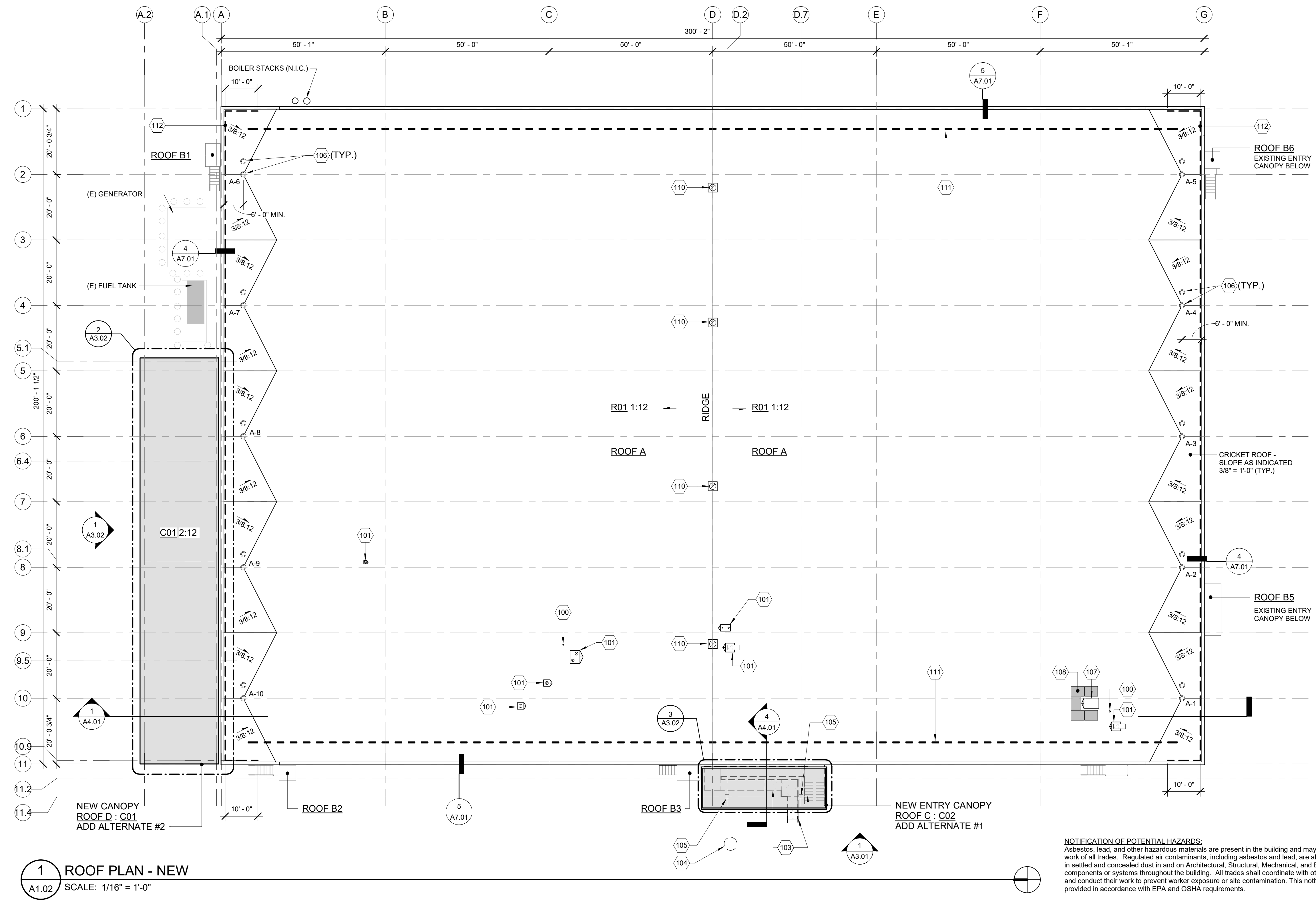
KEYNOTES		NOTES	
NUMBER	KEYNOTE	NUMBER	KEYNOTE
100	PIPE PENETRATION.	107	NEW ROOF ACCESS HATCH. PROVIDE UPSTREAM DIVERSION CRICKET.
101	NEW ROOF CURB. PROVIDE CRICKET.	108	ROOF WALK PADS (TYPICAL).
103	NEW RAMP AND STAIR. REFER TO CIVIL AND STRUCTURAL.	110	PROVIDE NEW ROOF CURB TO REINSTALL SALVAGED NATURAL GRAVITY VENTS.
104	DRYWELL LOCATION. REFER TO CIVIL.	111	PROVIDE DASHED SAFETY MARKING 6'-0" FROM ROOF EDGE AS INDICATED.
105	NEW STRUCTURAL COLUMN SUPPORT FOR CANOPY. REFER TO STRUCTURAL.	112	DASHED LINE INDICATES LOCATION OF NON-PENETRATING GUARDRAIL SYSTEM. PROVIDE RUBBER PROTECTIVE PAD INSTALLED UNDER EACH ROOF SUPPORT PER 05 52 17.
106	NEW ROOF DRAIN AND OVERFLOW DRAIN. OFFSET DRAIN LOCATION A MINIMUM OF 6'-0" FROM PARAPET WALL. REFER TO MECHANICAL DRAWINGS.		
			1. PLUMBING VENTS THROUGH ROOF (VTR) SHALL HAVE A VENT OPENING 12 INCHES MINIMUM ABOVE THE ROOF ASSEMBLY'S FINISHED TOP. ALL THE SLEEVED CONNECTED HEIGHT OVERLAPS SHALL BE MADE AT OR BELOW ROOF ASSEMBLY. COUPLERS SHALL NOT BE VISIBLE ABOVE ROOF ASSEMBLY.
			2. MECHANICAL ROOF CURBS SHALL EXTEND A MINIMUM OF 12 INCHES ABOVE THE TO OF ROOF ASSEMBLY.
			3. THE LOWEST POINT OF CURB MOUNTED VENTILATION AIR INTAKES AND CURB MOUNTED VENTILATION EQUIPMENT AIR INTAKES SHALL BE 24 INCHES MINIMUM ABOVE THE TOP OF THE ROOF ASSEMBLY.
			4. THE LOWEST POINT OF CURB MOUNTED VENTILATION AIR RELIEFS OR EXHAUSTS AND CURB MOUNTED VENTILATION EQUIPMENT AIR RELIEFS, OR EXHAUSTS SHALL BE 18 INCHES MINIMUM ABOVE TOP OF THE ROOF ASSEMBLY. APPLICABLE TO CLOTHES DRYER EXHAUST AND NON-GREASE LADEN RANGE HOOD EXHAUST.



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REVISIONS

No	Description	Date



1 ROOF PLAN - NEW  
A1.02 SCALE: 1/16" = 1'-0"

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ROOF REPLACEMENT AND  
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4919 VAN BUREN ST

BDS Project No.: 023003  
Client Project No.: 065006

BID DOCUMENTS  
December 18, 2023

ROOF PLAN -  
NEW WORK  
A1.02

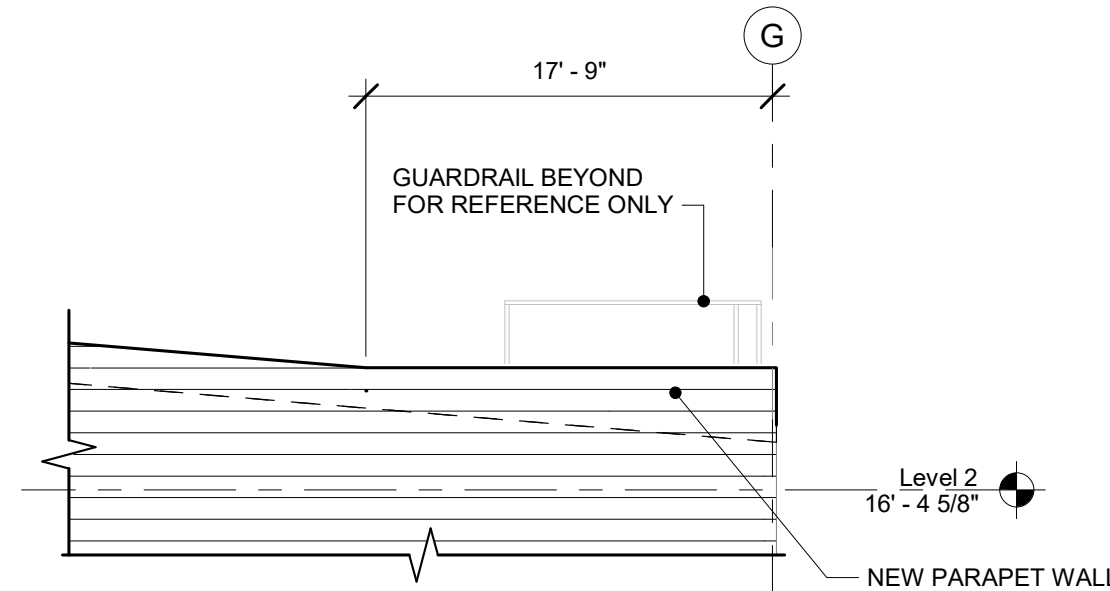
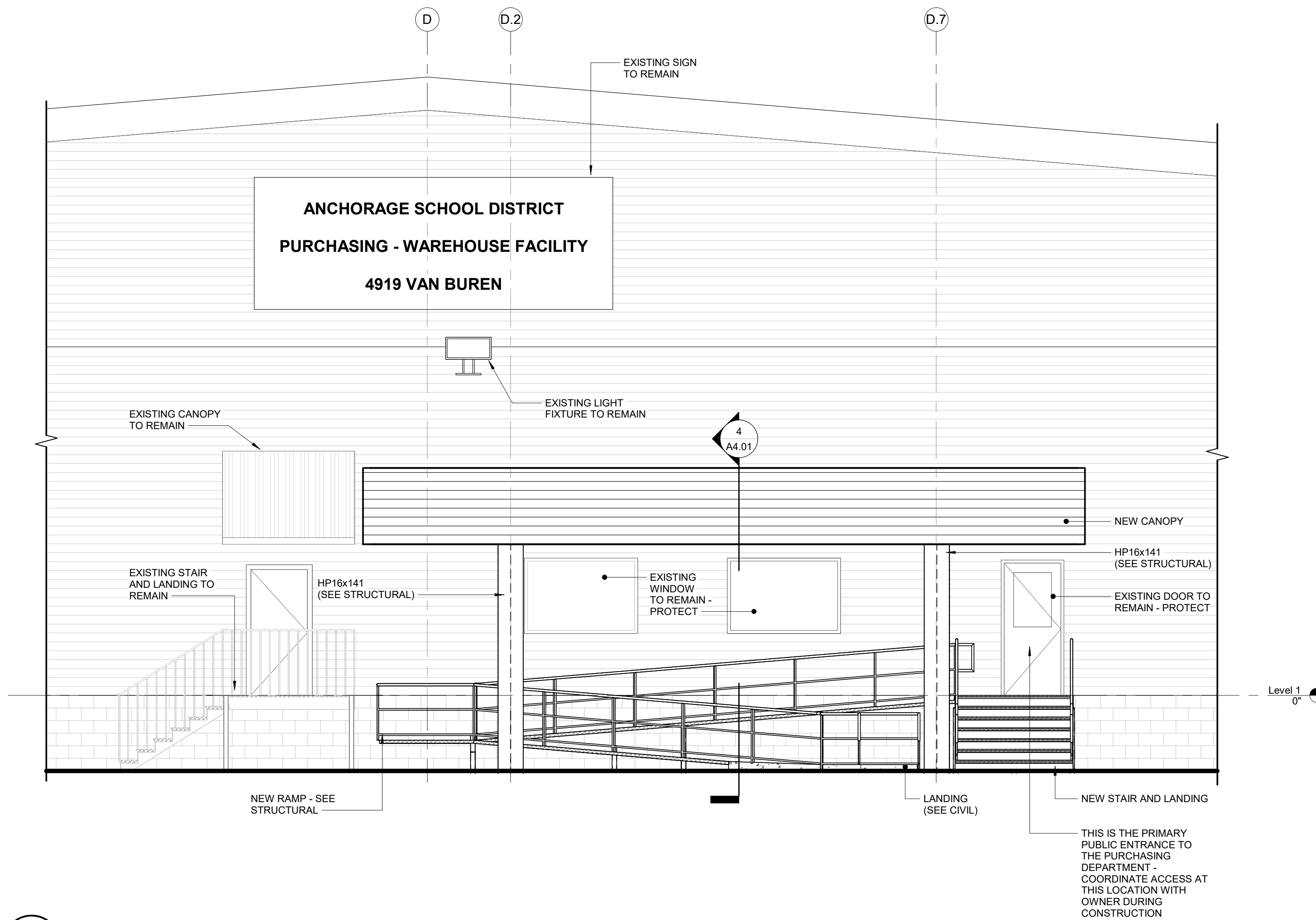




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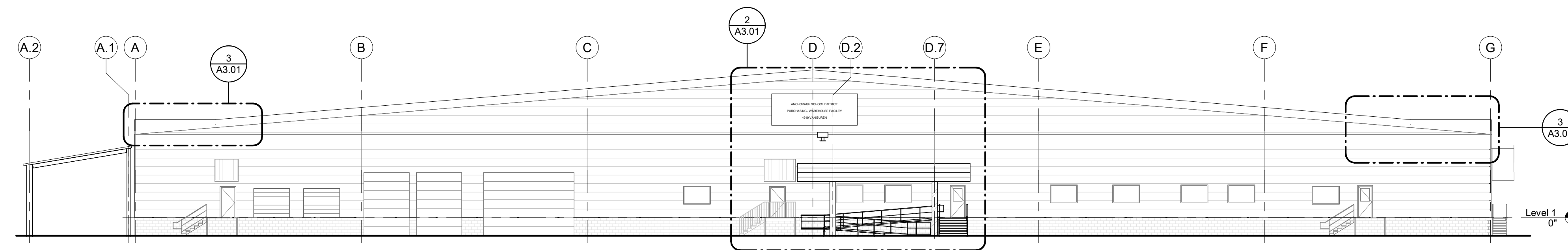
REVISIONS

No	Description	Date



3 PARAPET EXTENSION DETAIL  
A3.01 SCALE: 1/8" = 1'-0"

2 EXTERIOR ELEVATION -MAIN ENTRANCE - ADD ALTERNATE #1  
A3.01 SCALE: 1/4" = 1'-0"



1 EXTERIOR ELEVATION -PARAPET  
A3.01 SCALE: 1/16" = 1'-0"

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BID DOCUMENTS  
December 18, 2023

EXTERIOR  
ELEVATIONS  
**A3.01**



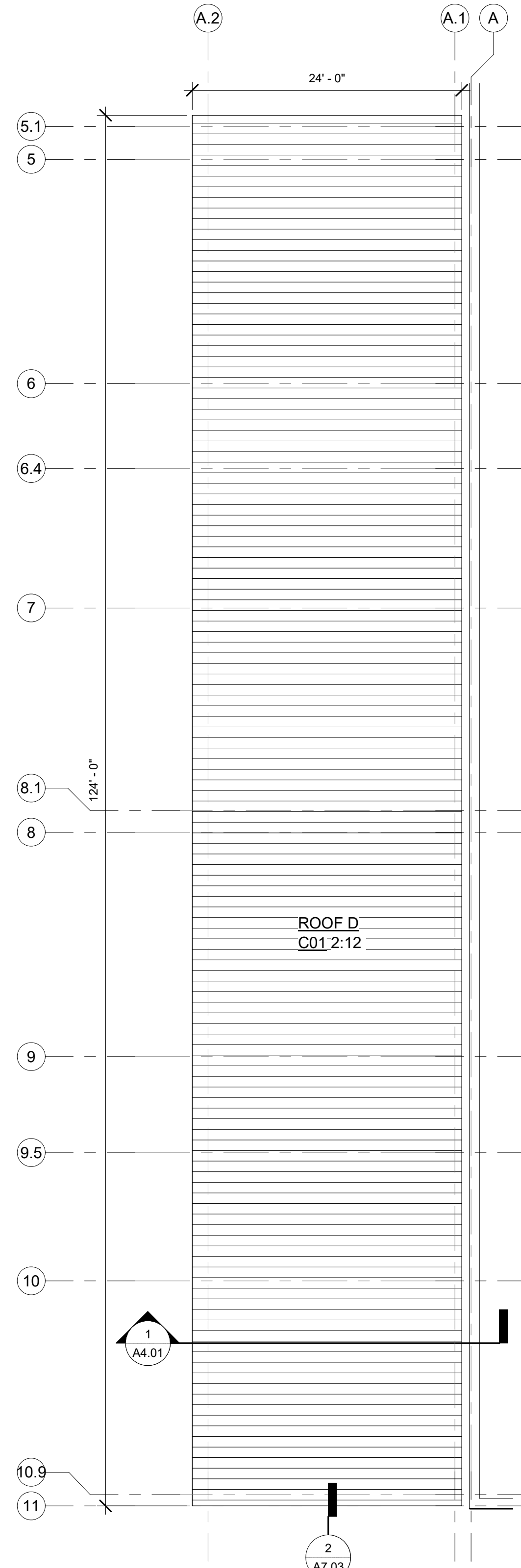


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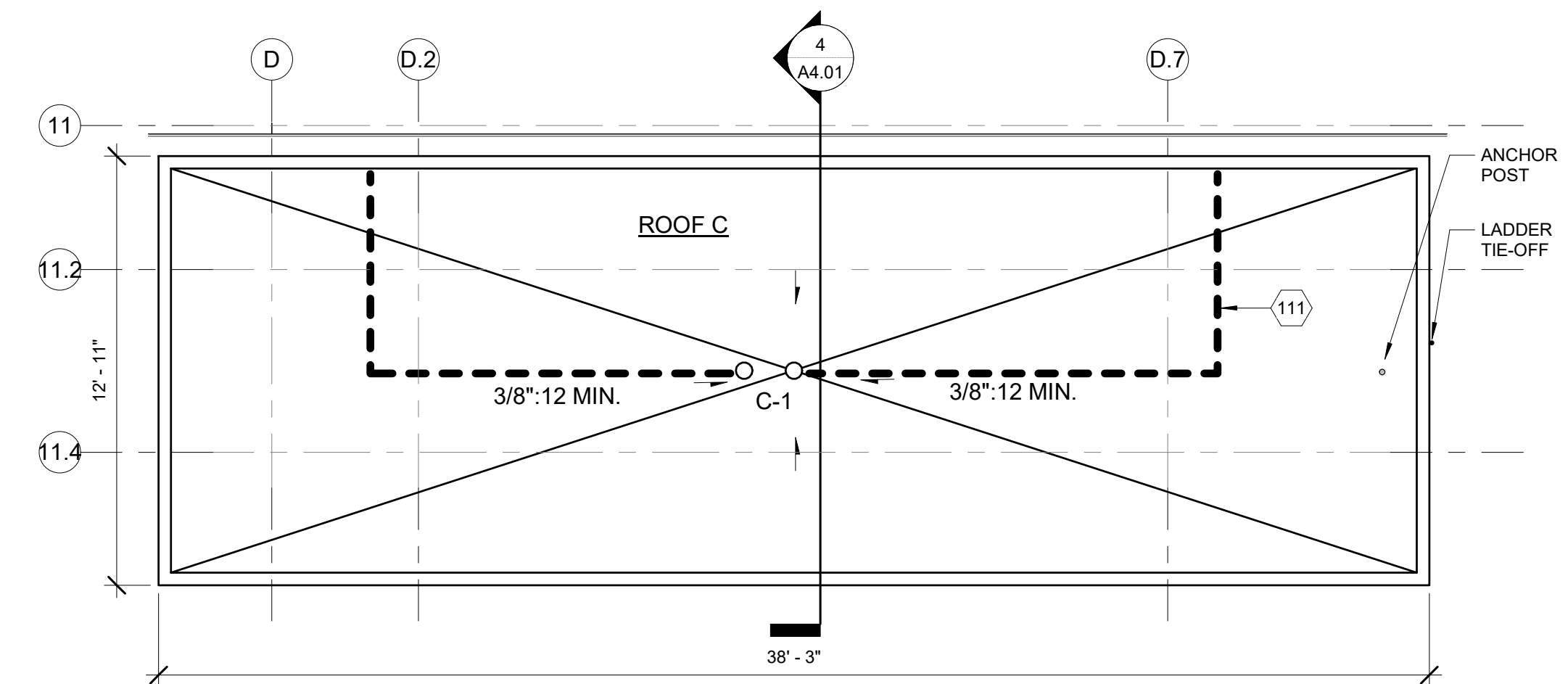
REVISIONS

No	Description	Date

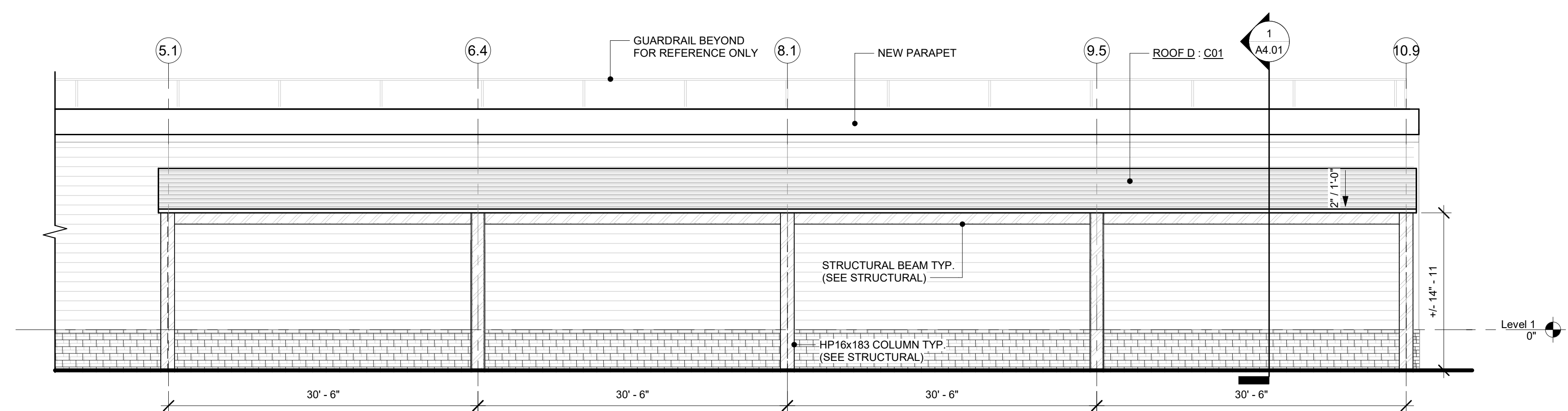
KEYNOTES	
NUMBER	KEYNOTE
111	PROVIDE DASHED SAFETY MARKING 6' - 0" FROM ROOF EDGE AS INDICATED.



**2** NORTH CANOPY - ADD ALTERNATE #2  
A3.02 SCALE: 1/8" = 1'-0"



**3** WEST CANOPY - ADD ALTERNATE #1  
A3.02 SCALE: 1/4" = 1'-0"



**1** EXTERIOR ELEVATION - NORTH CANOPY - ADD ALTERNATE #2  
A3.02 SCALE: 1/8" = 1'-0"

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Client Project No.: 065006

BID DOCUMENTS  
December 18, 2023

ROOF PLANS &  
EXTERIOR  
ELEVATIONS  
**A3.02**





Anchorage School District

REVISIONS

No	Description	Date
	No Description	



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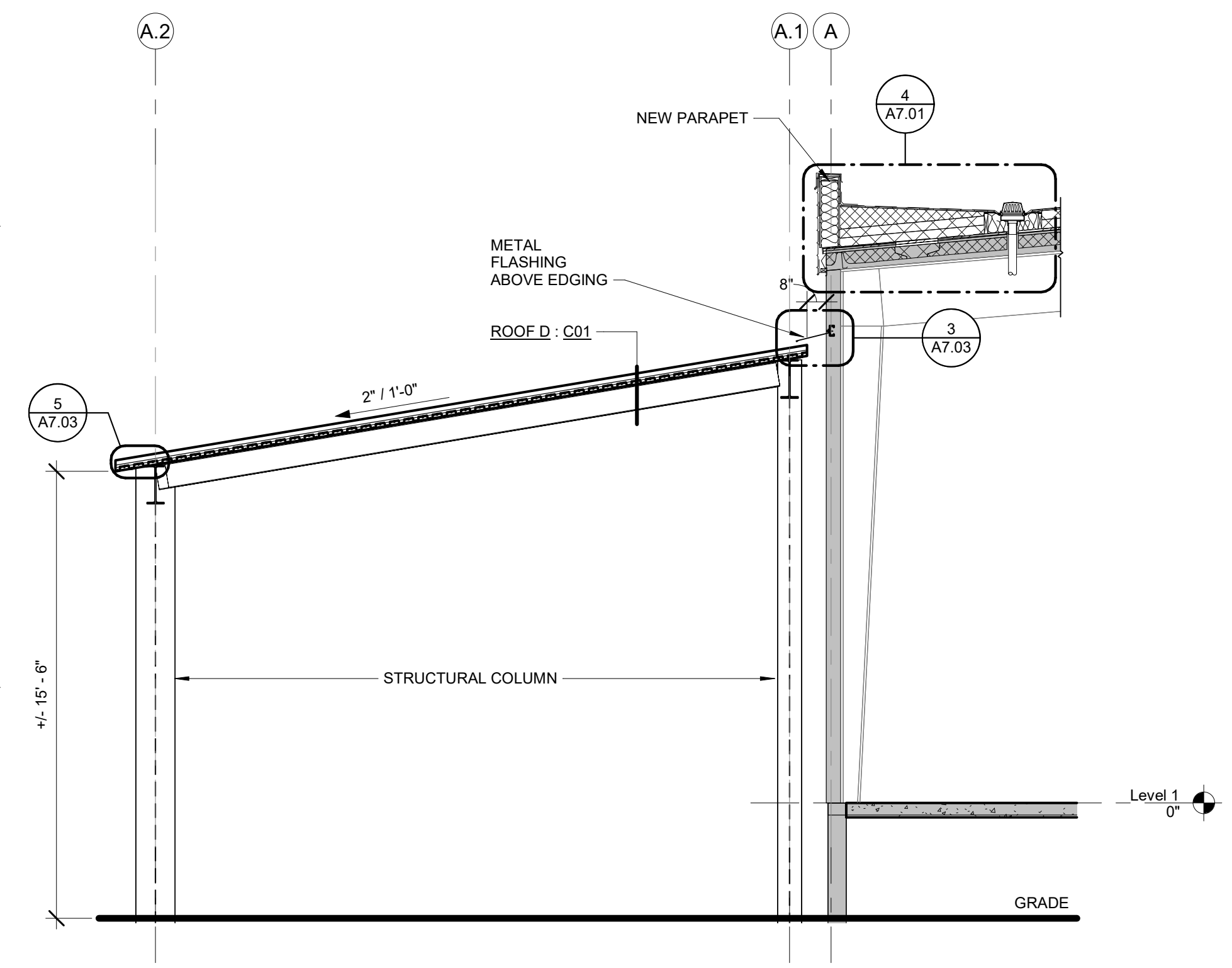
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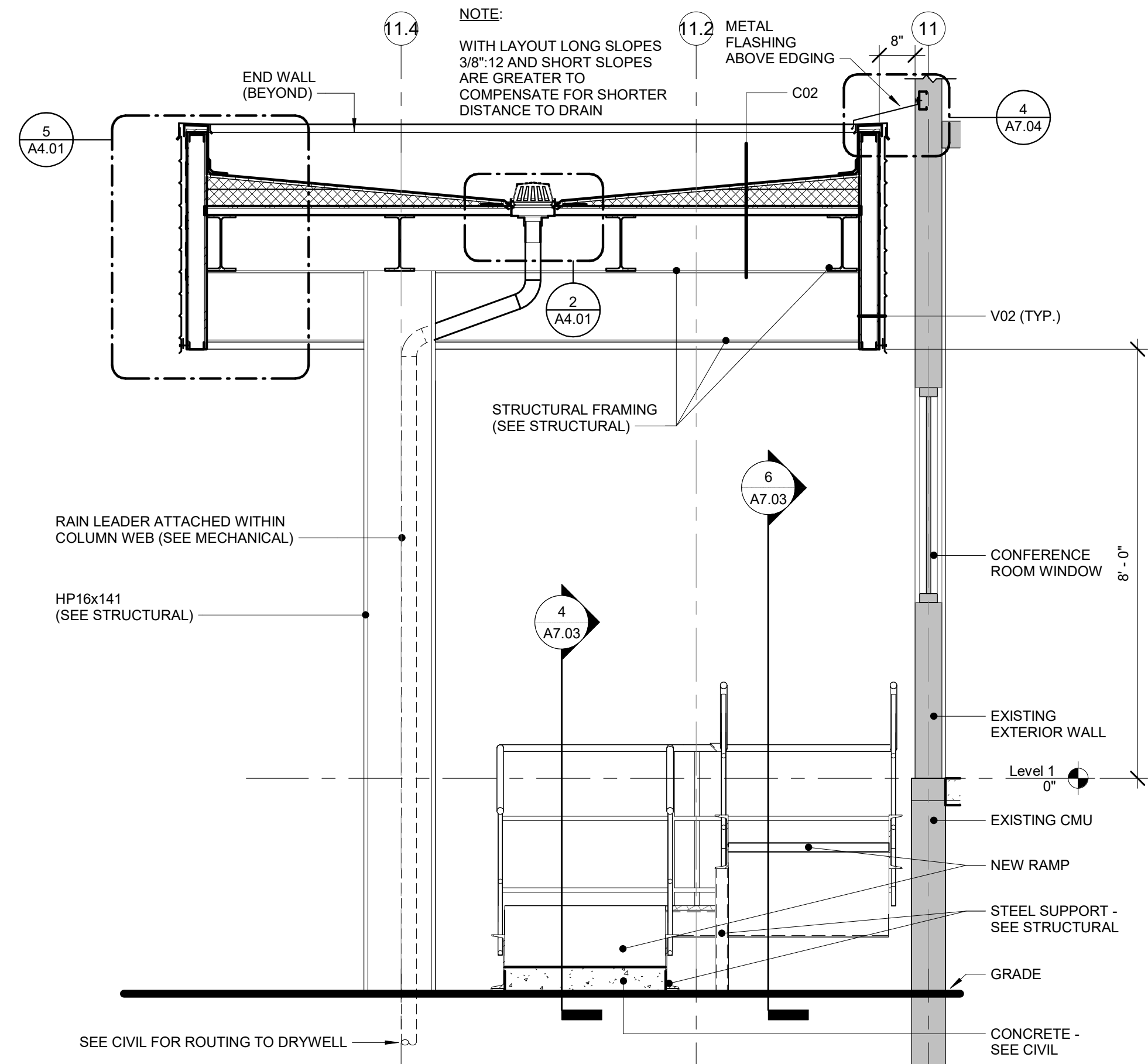
**PURCHASING/WAREHOUSE ROOF REPLACEMENT AND STRUCTURAL UPGRADES**  
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BDS Project No.: 023003  
Client Project No.: 065006  
BID DOCUMENTS  
December 18, 2023

**BUILDING SECTIONS/DETAILS A4.01**

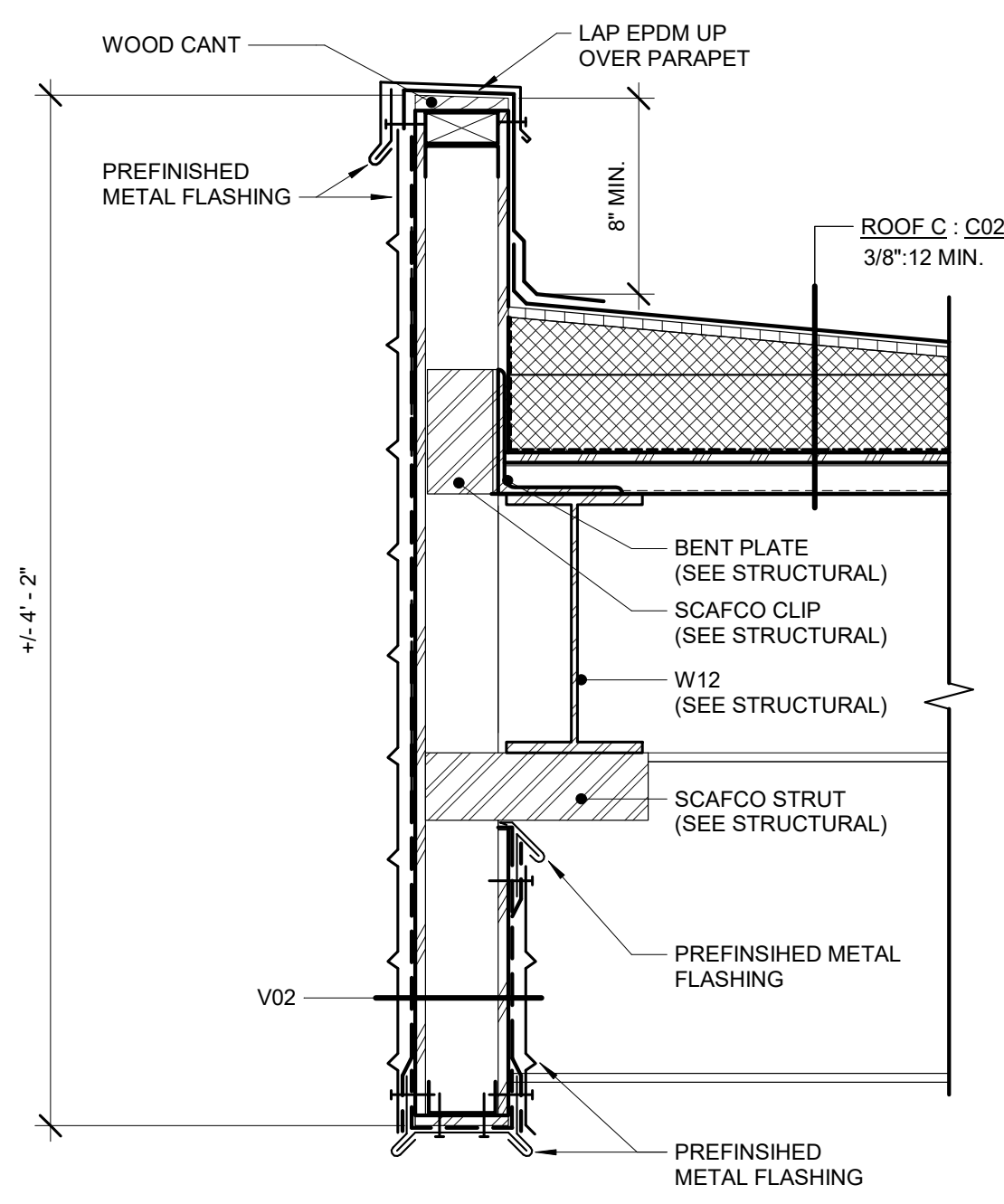
**NOTIFICATION OF POTENTIAL HAZARDS:**  
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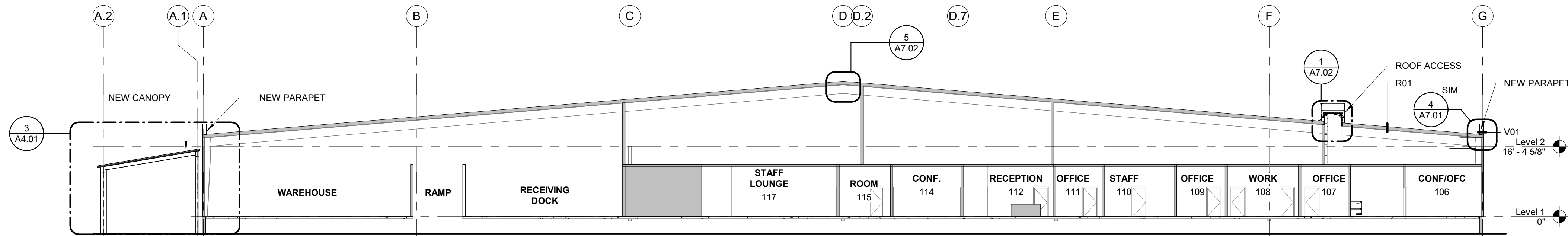
**3 BUILDING SECTION - AT CANOPY - ADD ALTERNATE #2**  
A4.01 SCALE: 1/4" = 1'-0"



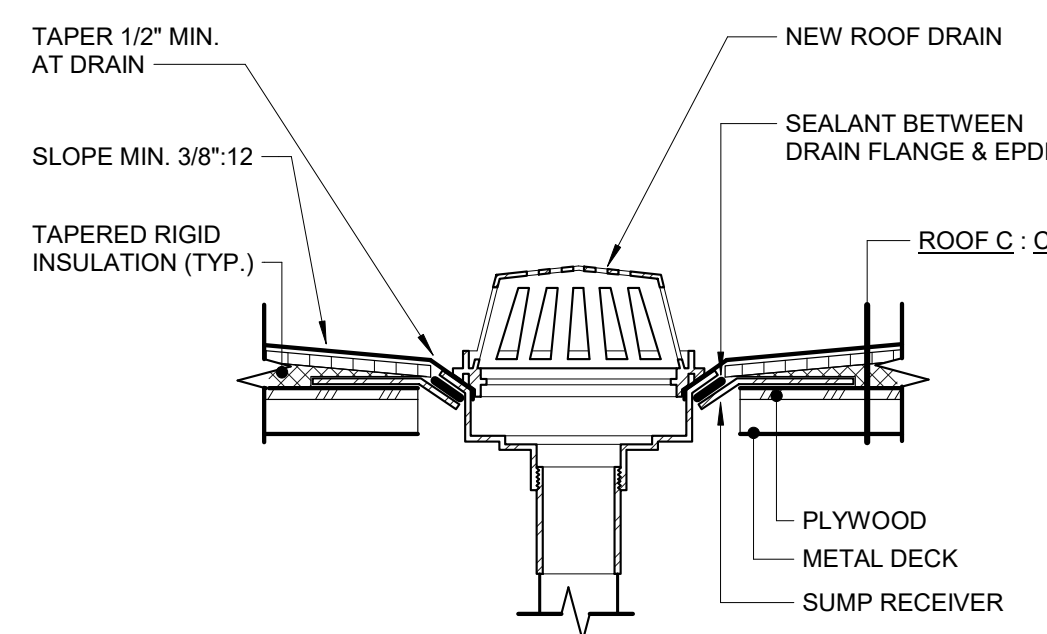
**4 SECTION - WEST CANOPY - ADD ALTERNATE #1**  
A4.01 SCALE: 1/2" = 1'-0"



**5 WEST CANOPY PARAPET - DETAIL**  
A4.01 SCALE: 1 1/2" = 1'-0"



**1 BUILDING SECTION**  
A4.01 SCALE: 1/16" = 1'-0"



**2 ROOF C DRAIN DETAIL**  
A4.01 SCALE: 1 1/2" = 1'-0"

**NOTE:**  
WITH LAYOUT LONG SLOPES 3/8":12 AND SHORT SLOPES ARE GREATER TO COMPENSATE FOR SHORTER DISTANCE TO DRAIN

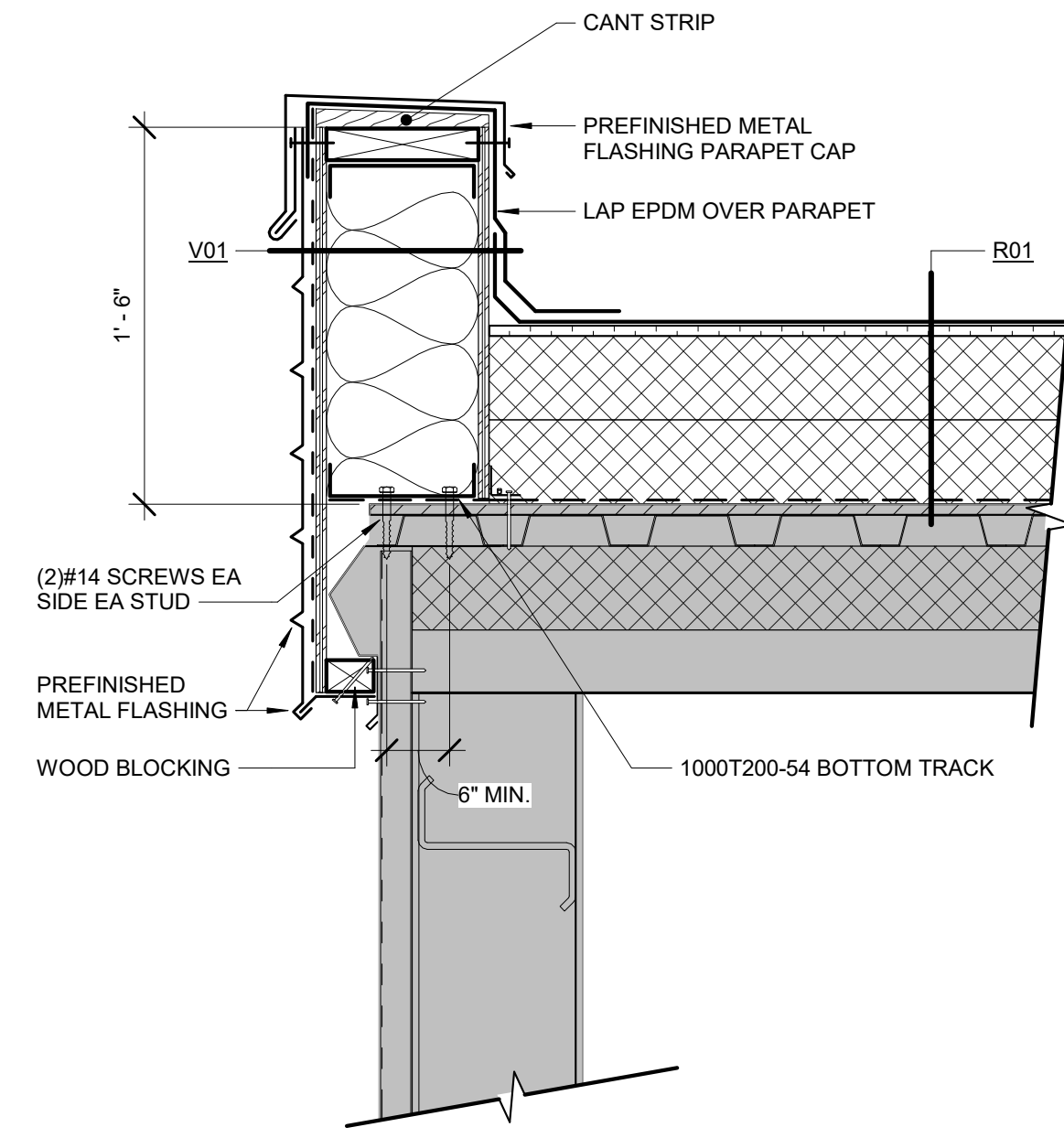




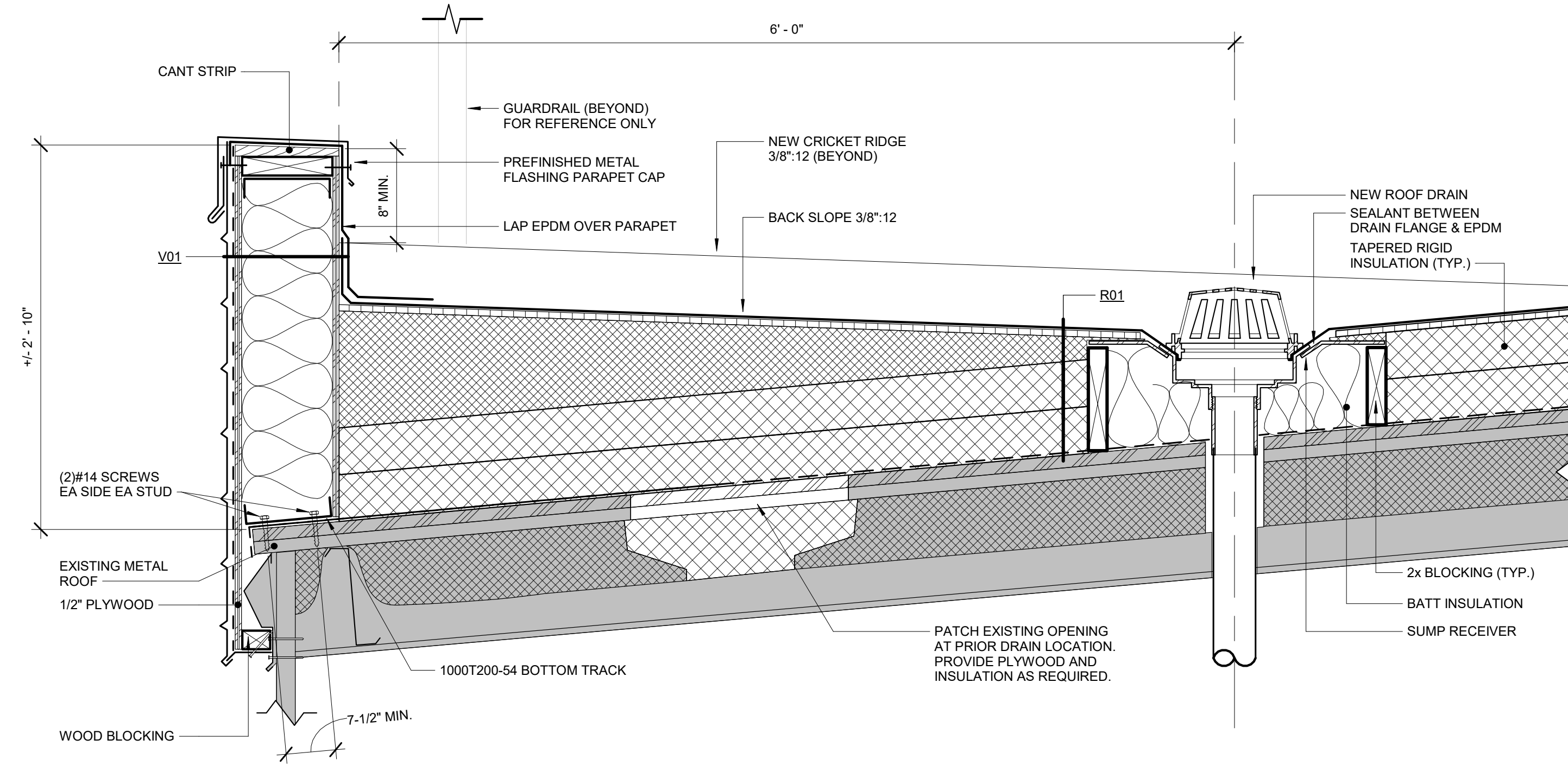
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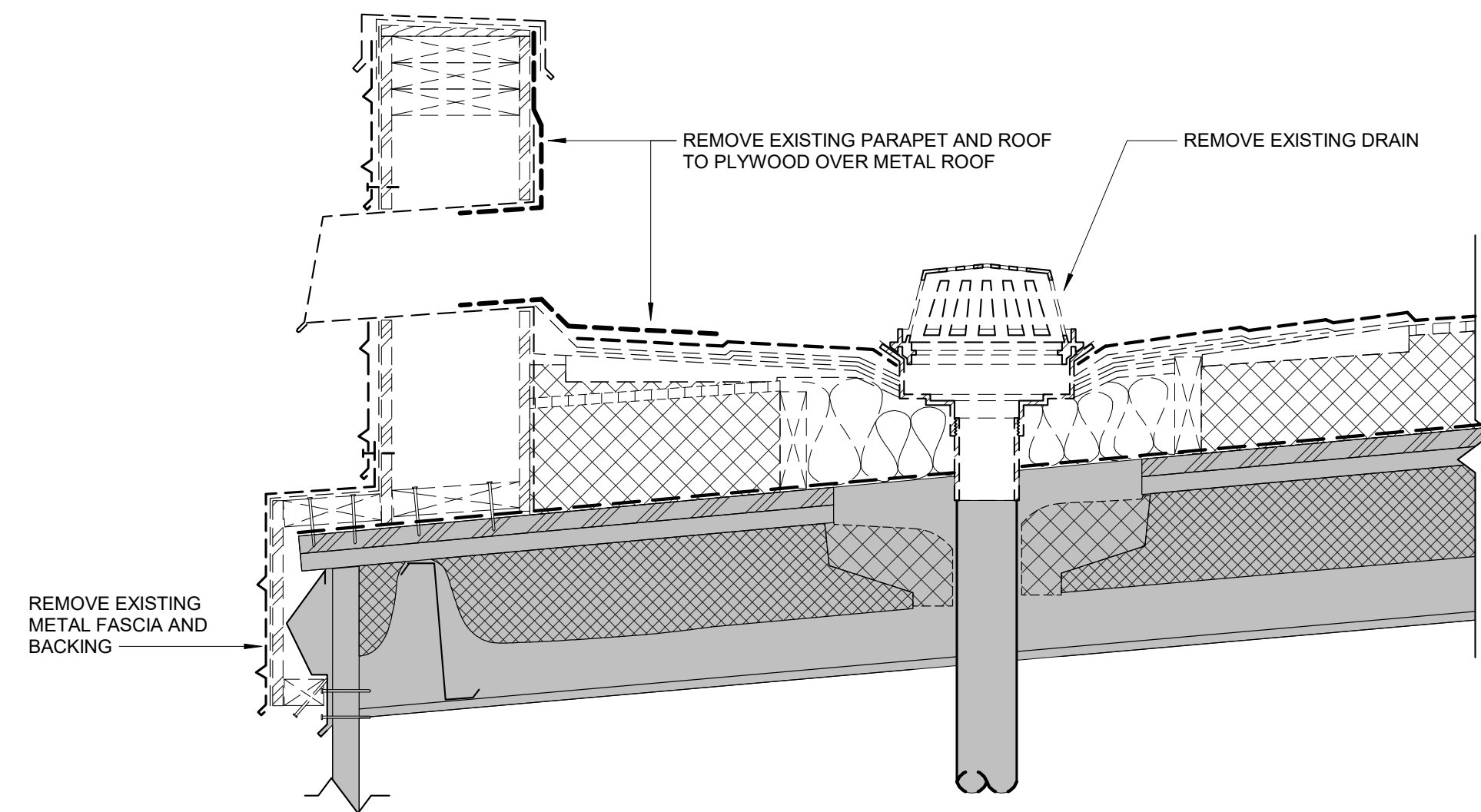
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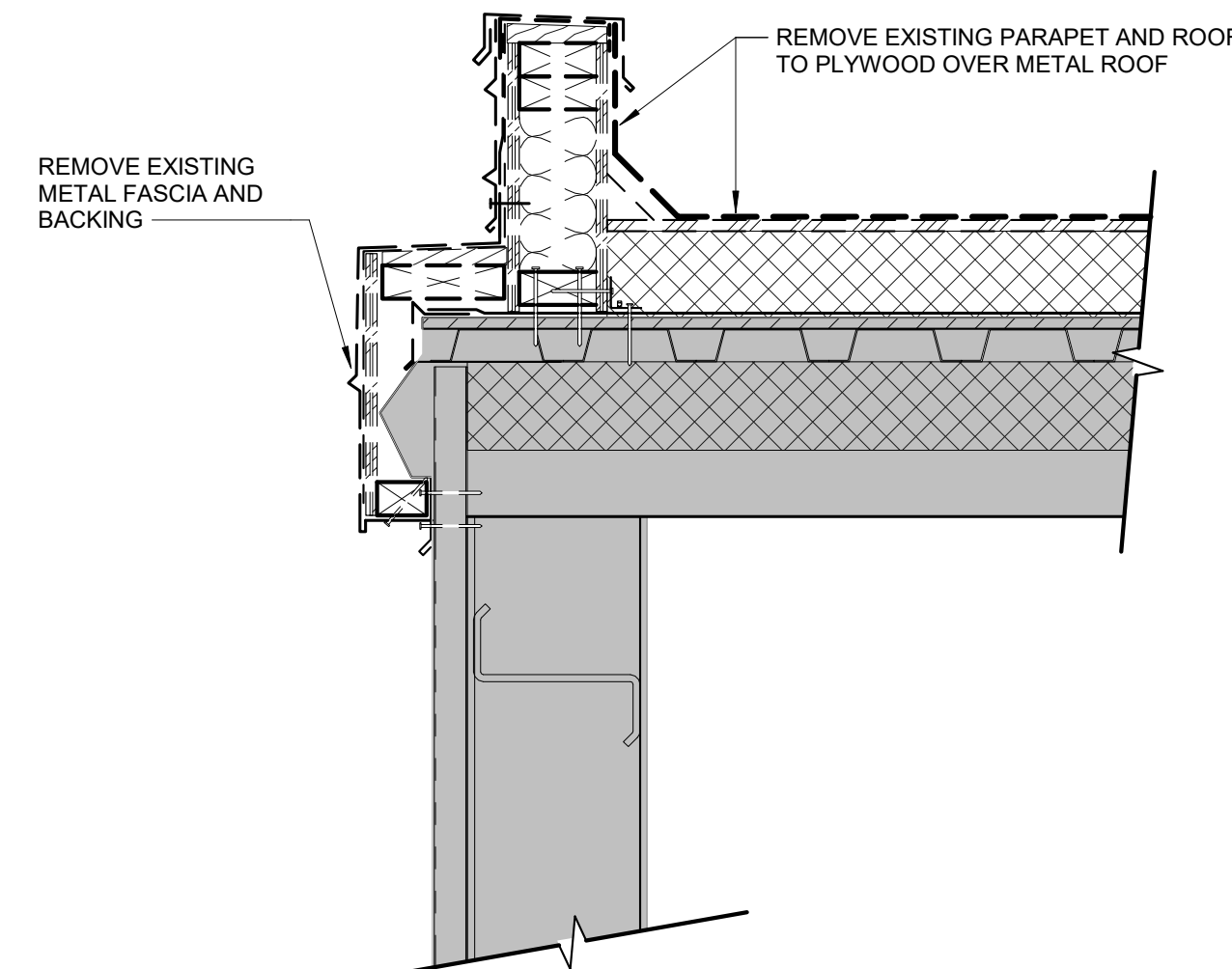
5 ROOF RAKE - NEW  
A7.01 NTS



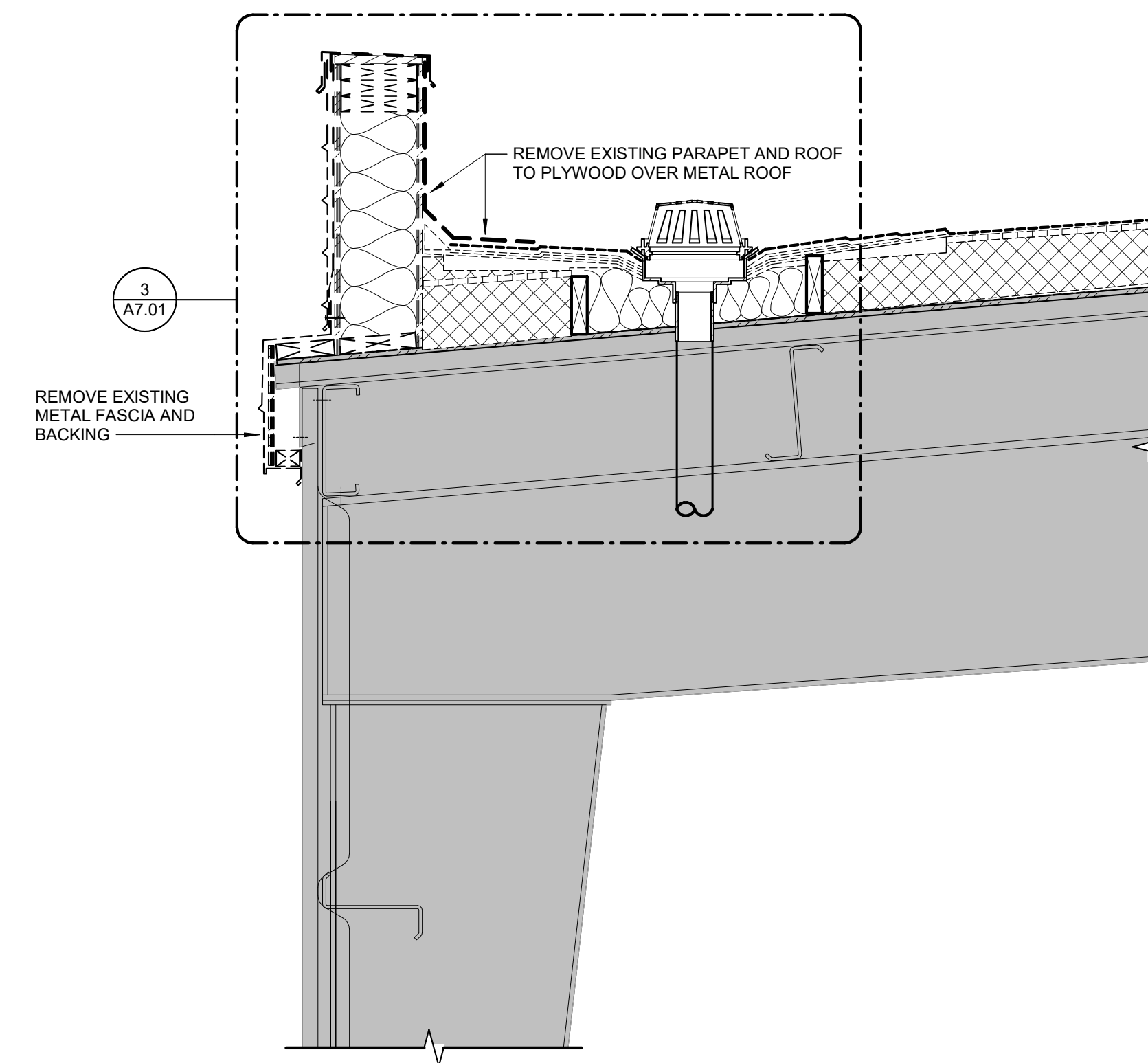
4 ROOF DRAIN & PARAPET WALL- NEW  
A7.01 NTS



3 EXISTING ROOF DRAIN - DEMOLITION  
A7.01 NTS



2 ROOF RAKE - DEMOLITION  
A7.01 NTS



1 ROOF EAVE DETAIL - DEMOLITION  
A7.01 NTS

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Drawn by: NS  
Checked by: RA  
**PURCHASING/WAREHOUSE ROOF REPLACEMENT AND STRUCTURAL UPGRADES**  
4919 VAN BUREN ST  
BDS Project No.: 023003  
Client Project No.: 065006  
BID DOCUMENTS  
December 18, 2023

DETAILS  
**A7.01**

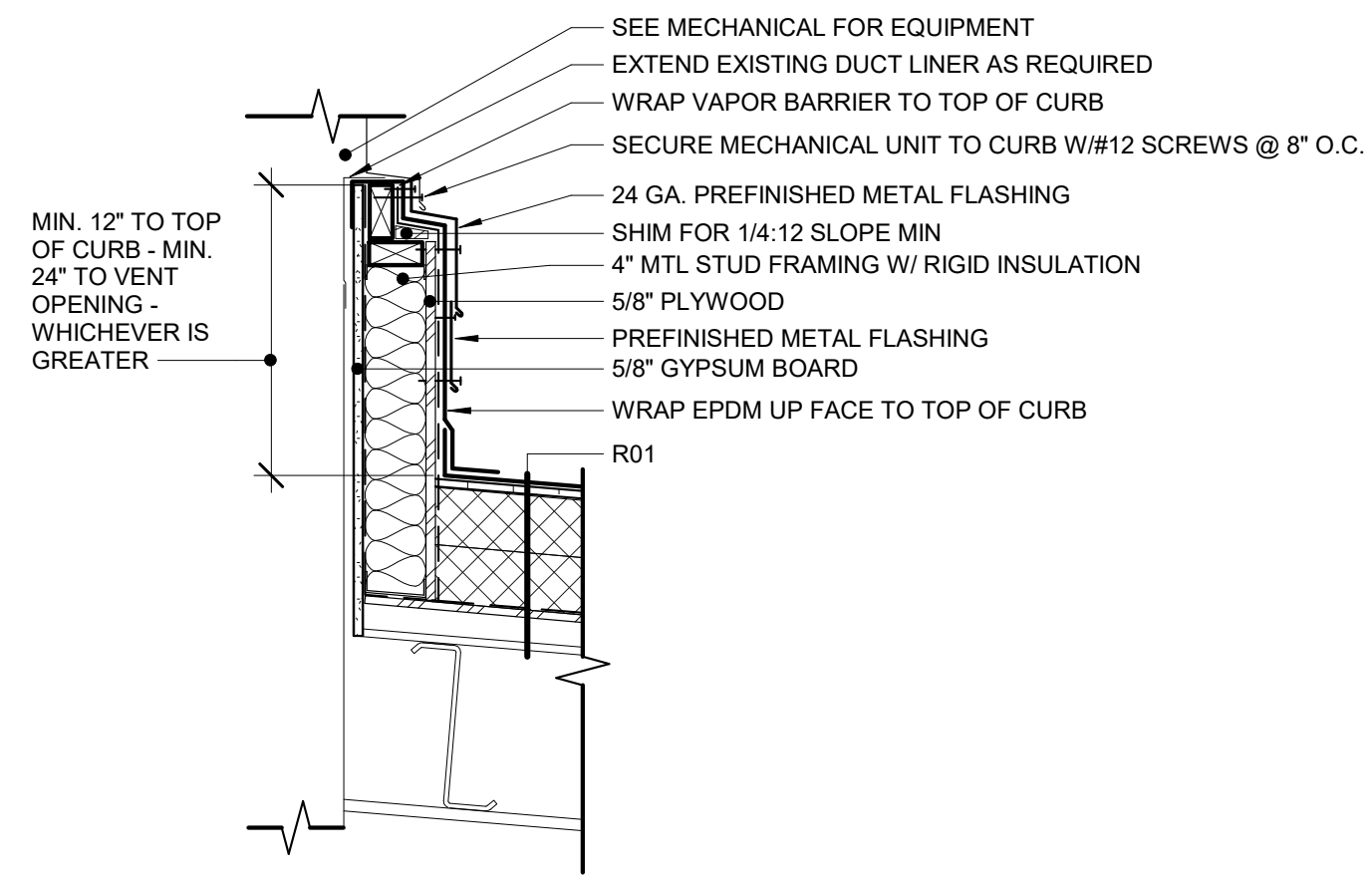




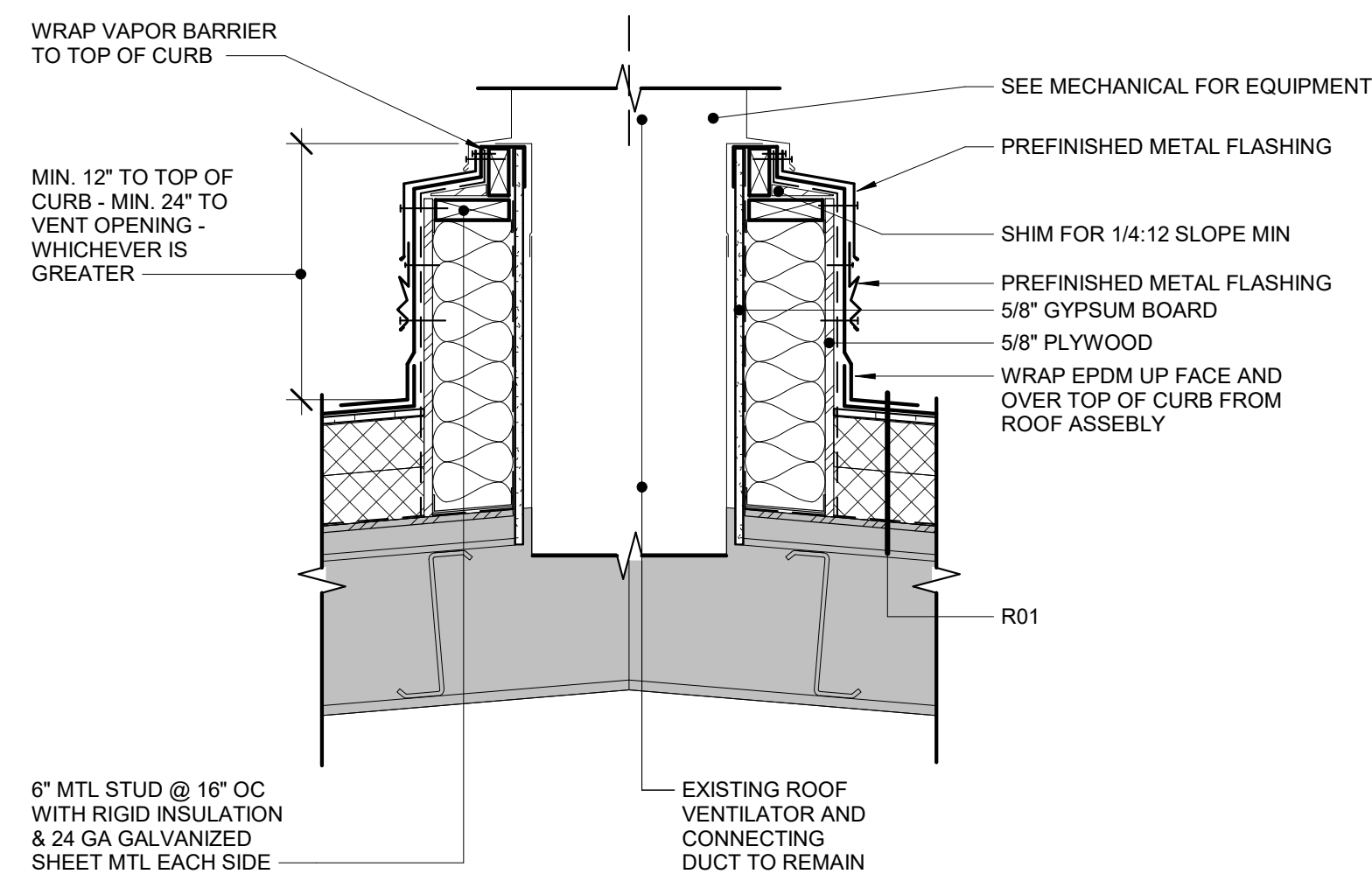
Anchorage School District

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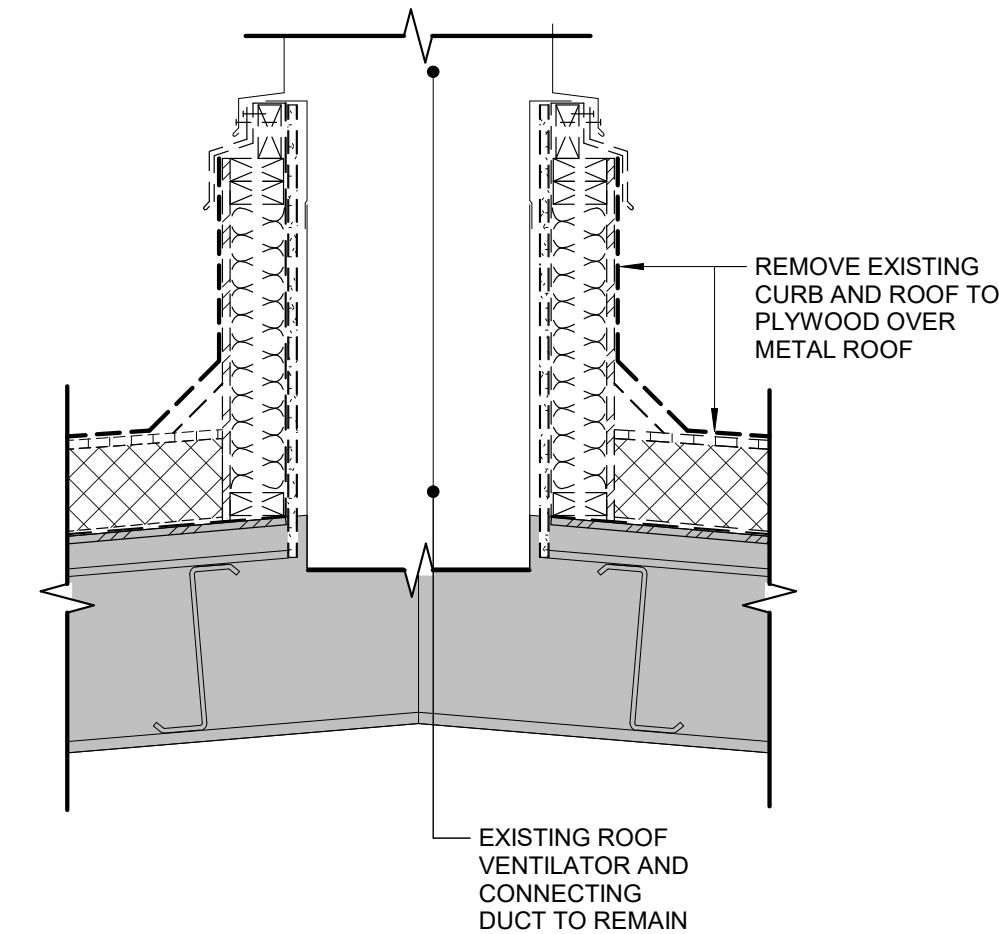
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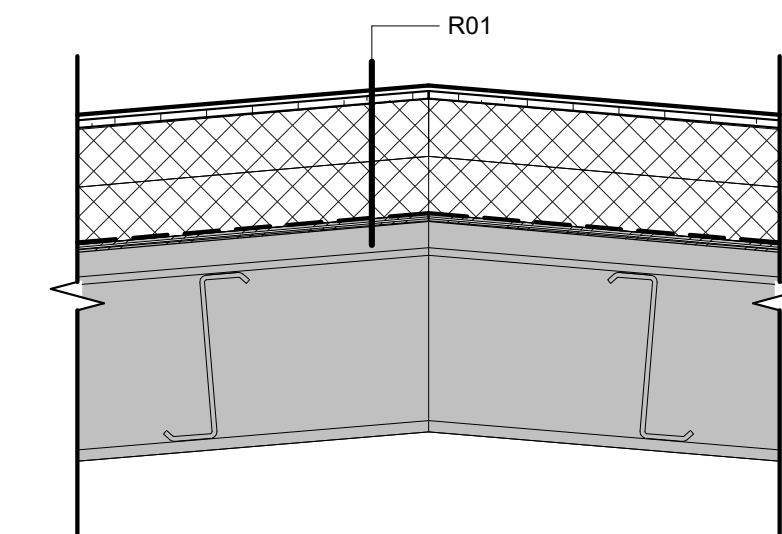
8 MECHANICAL CURB - TYP.  
A7.02 SCALE: 1" = 1'-0"



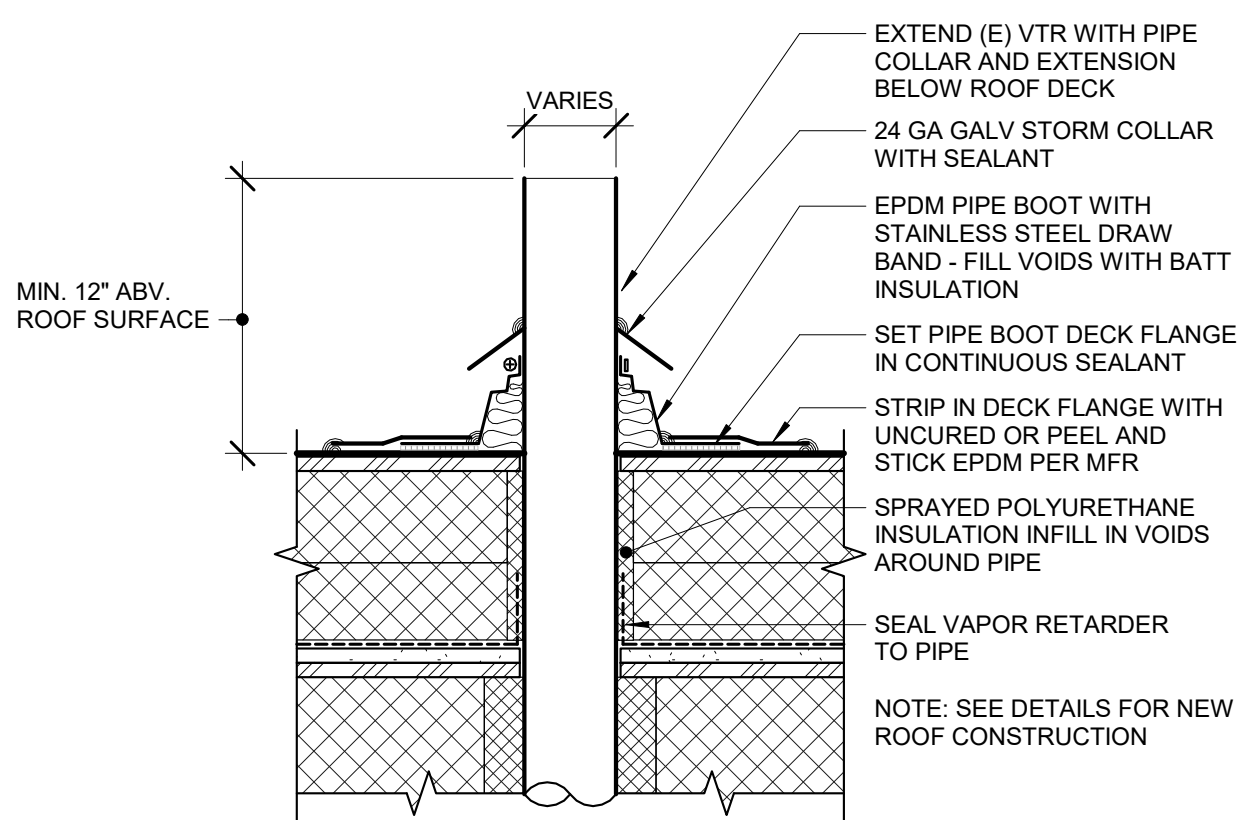
7 ROOF VENT AT RIDGE DETAIL - NEW  
A7.02 SCALE: 1" = 1'-0"



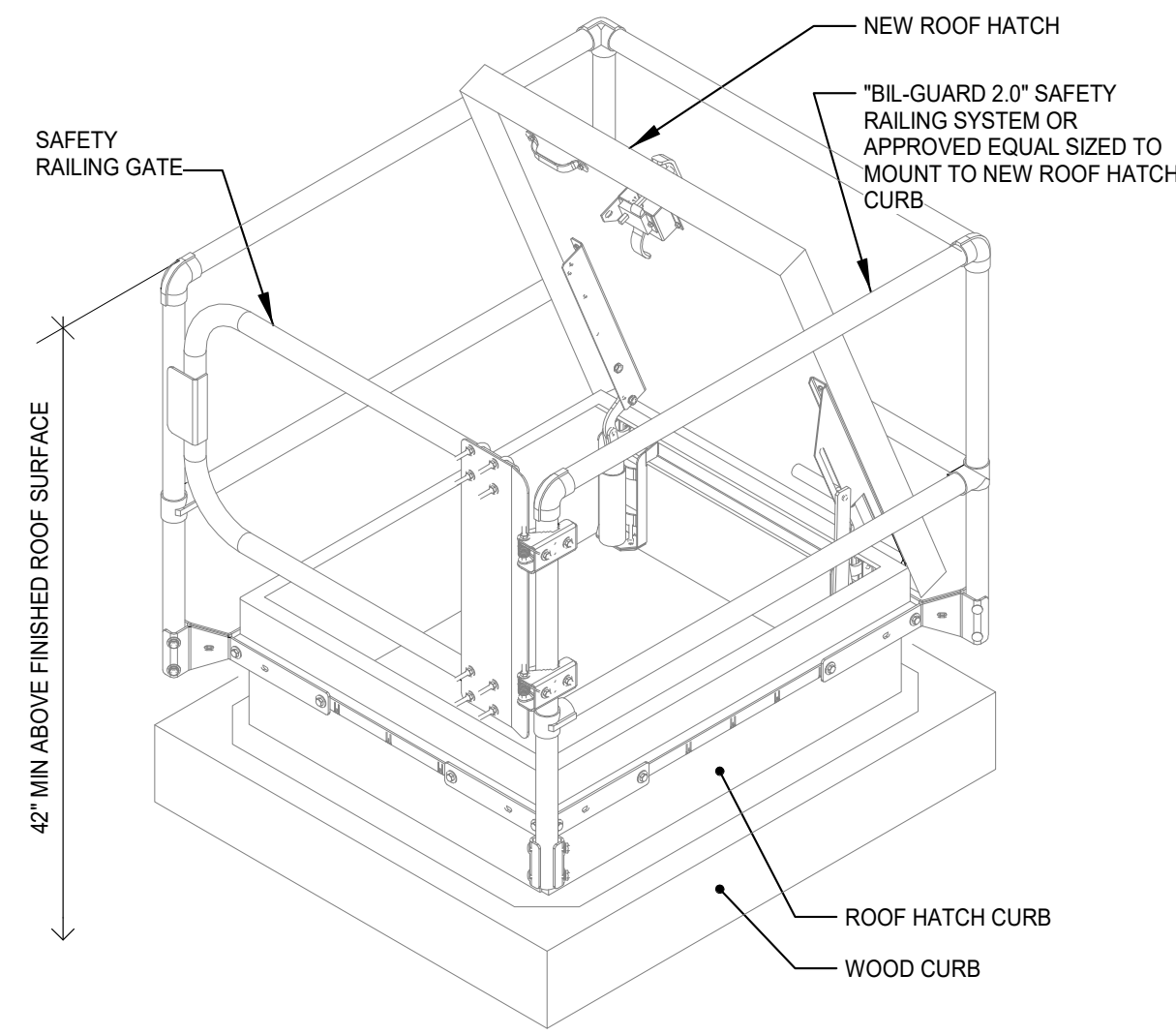
6 ROOF VENT AT RIDGE DETAIL - DEMO  
A7.02 SCALE: 1" = 1'-0"



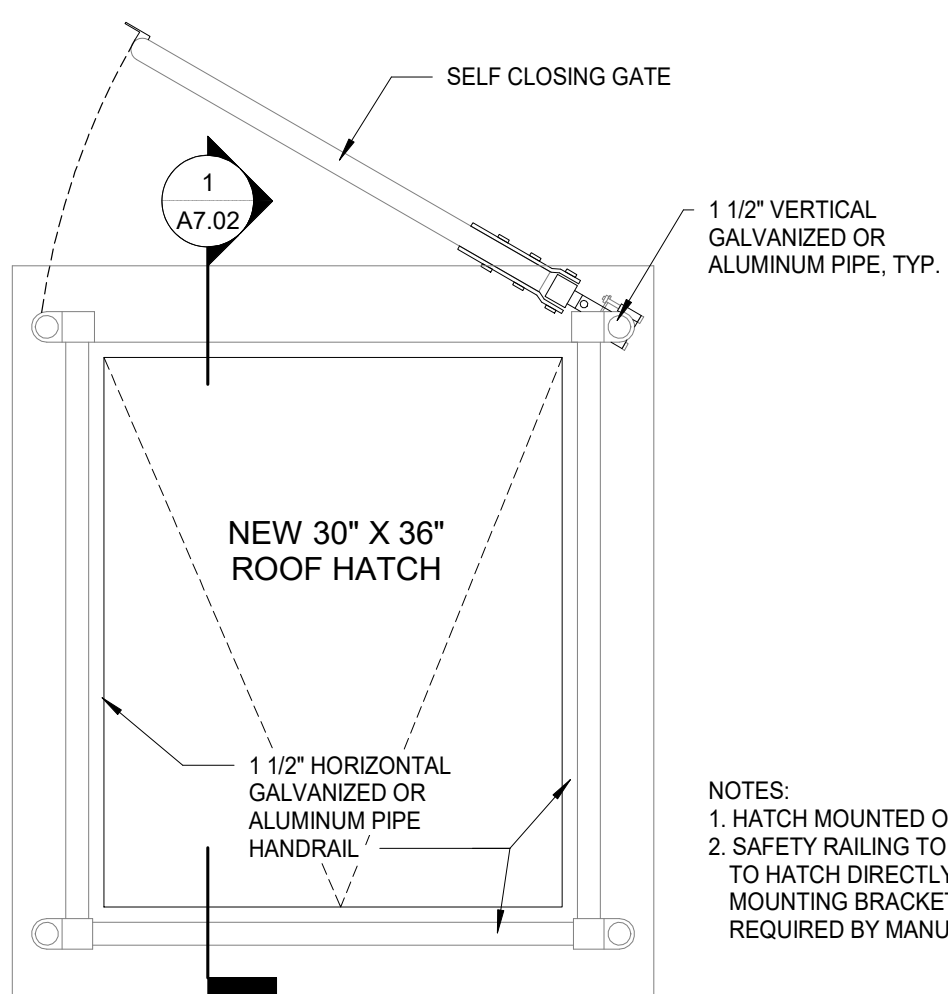
5 ROOF RIDGE - NEW  
A7.02 SCALE: 1" = 1'-0"



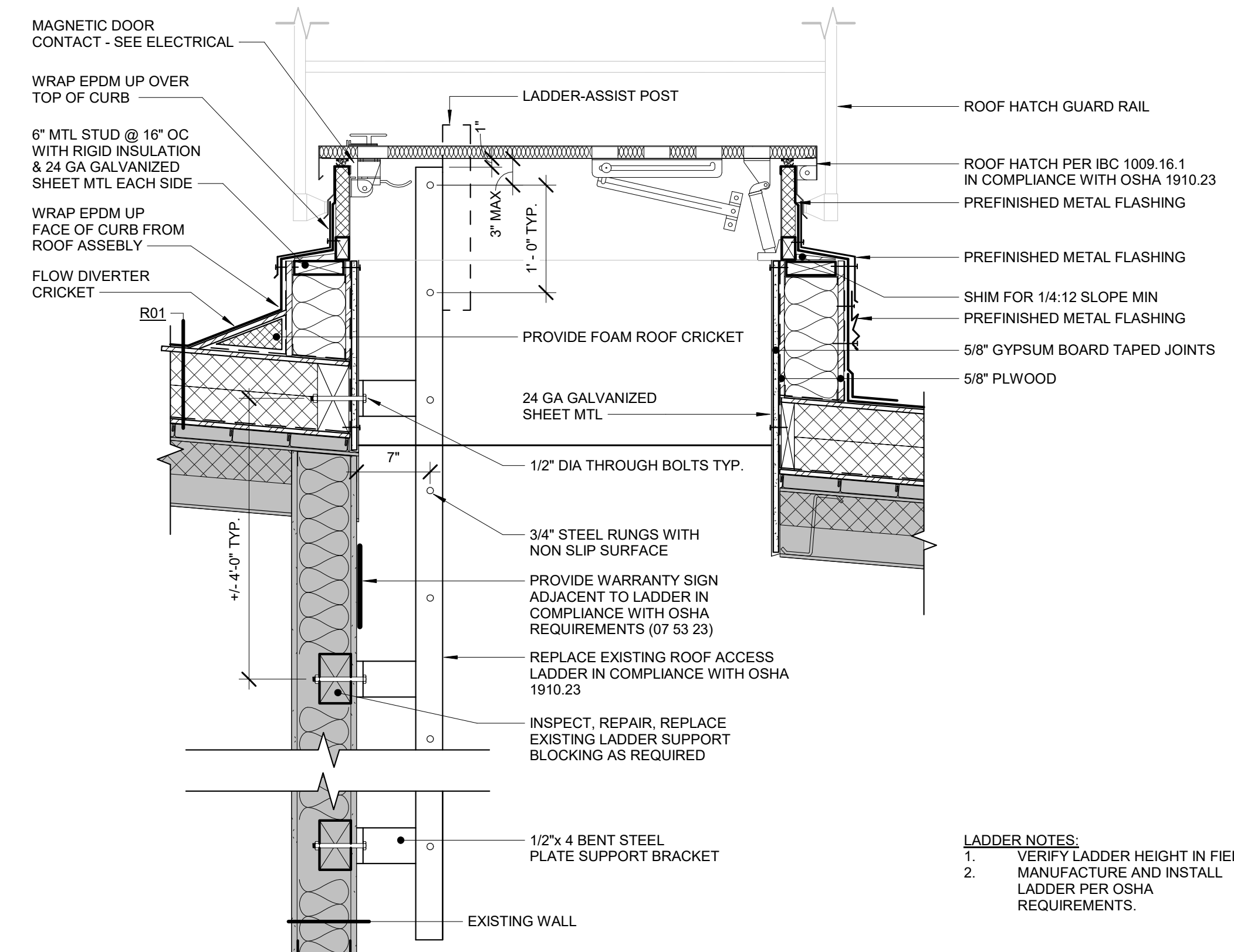
4 TYPICAL VTR/PTR  
A7.02 SCALE: 1 1/2" = 1'-0"



3 ROOF HATCH DETAIL  
A7.02 SCALE: 1 1/2" = 1'-0"



2 ROOF HATCH RAILING/CURB PLAN  
A7.02 SCALE: 1" = 1'-0"



1 ROOF HATCH / CURB DETAIL  
A7.02 SCALE: 1" = 1'-0"

- LADDER NOTES:
- VERIFY LADDER HEIGHT IN FIELD.
  - MANUFACTURE AND INSTALL LADDER PER OSHA REQUIREMENTS.

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December 18, 2023

DETAILS  
A7.02

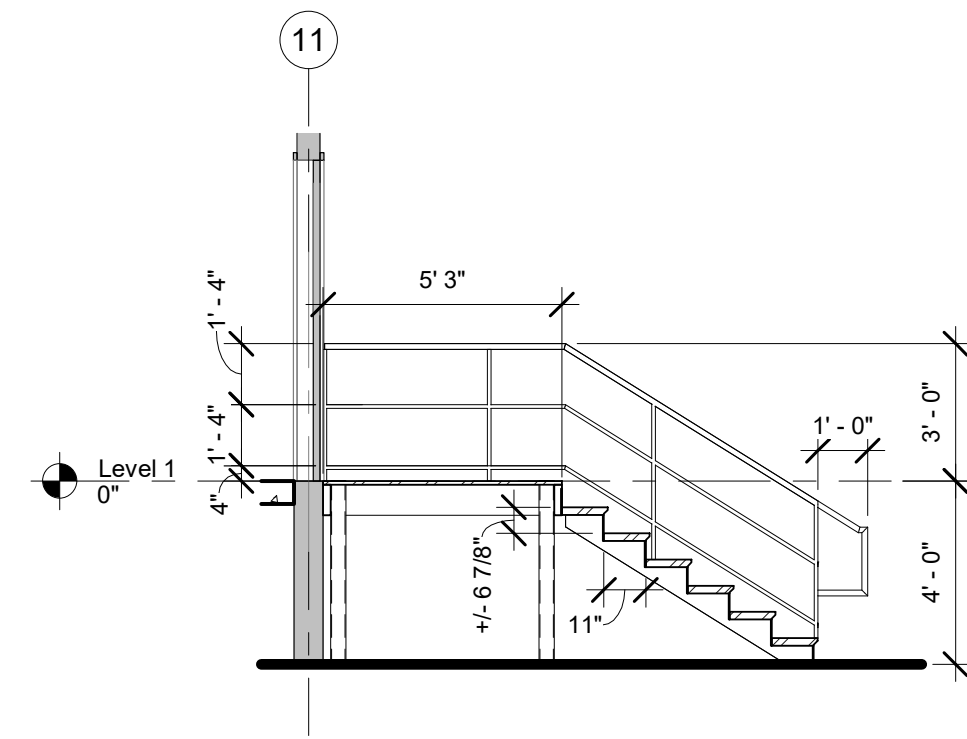




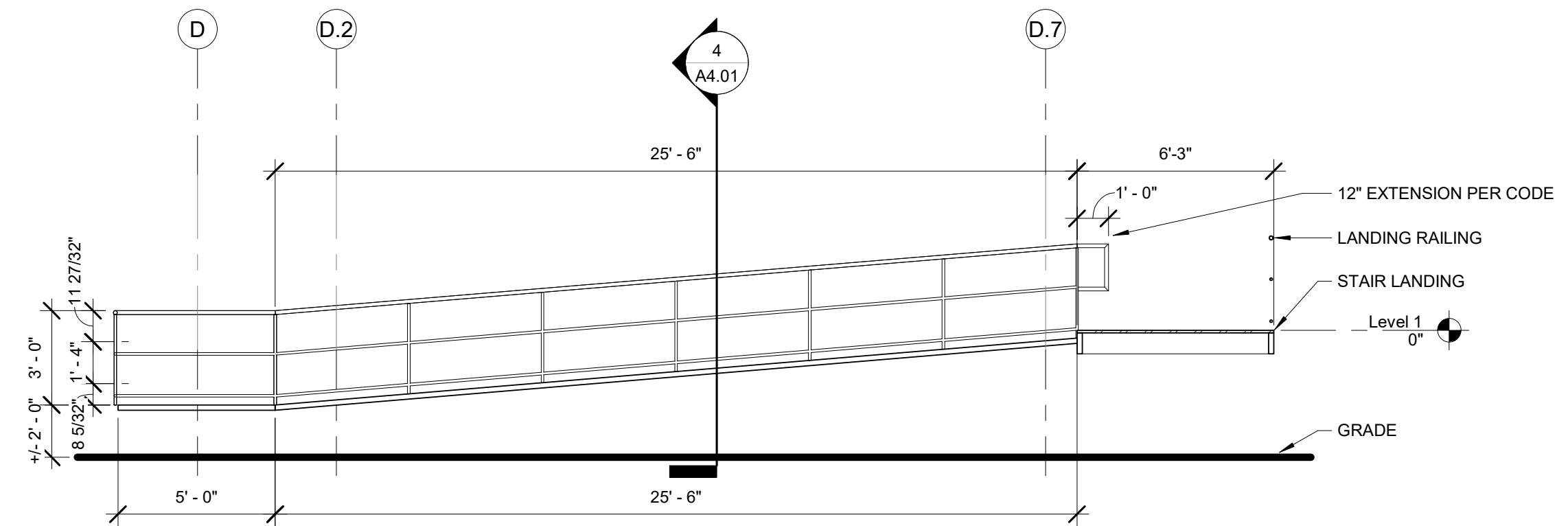
Anchorage School District

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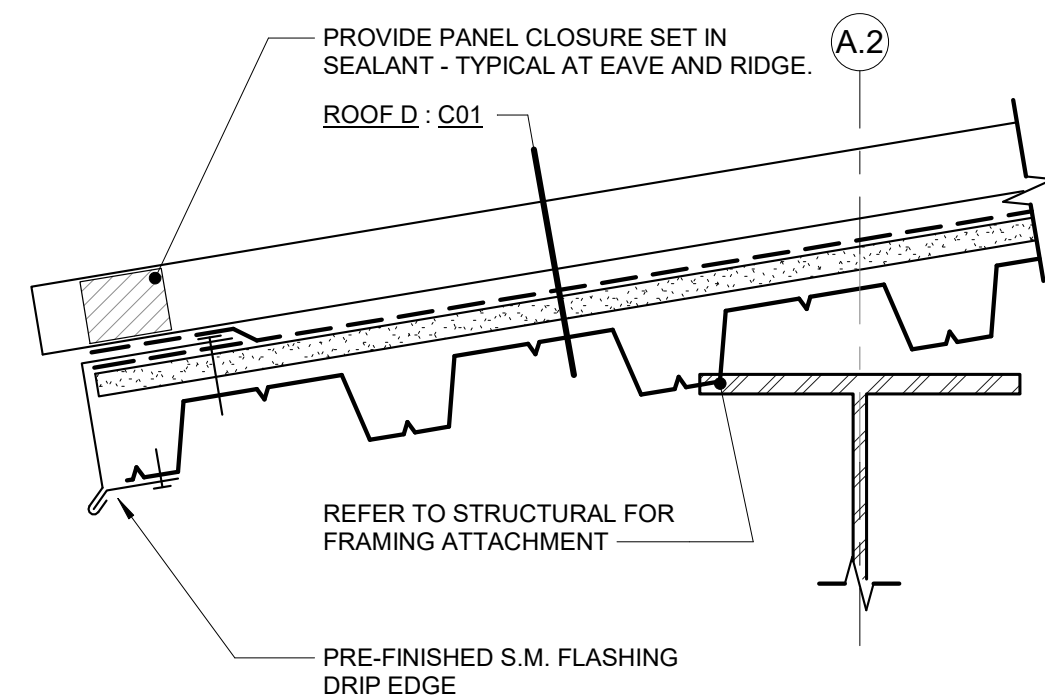
No	Description	Date
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**7** SECTION AT STAIR - ADD ALTERNATE #1  
A7.03 SCALE: 1/4" = 1'-0"

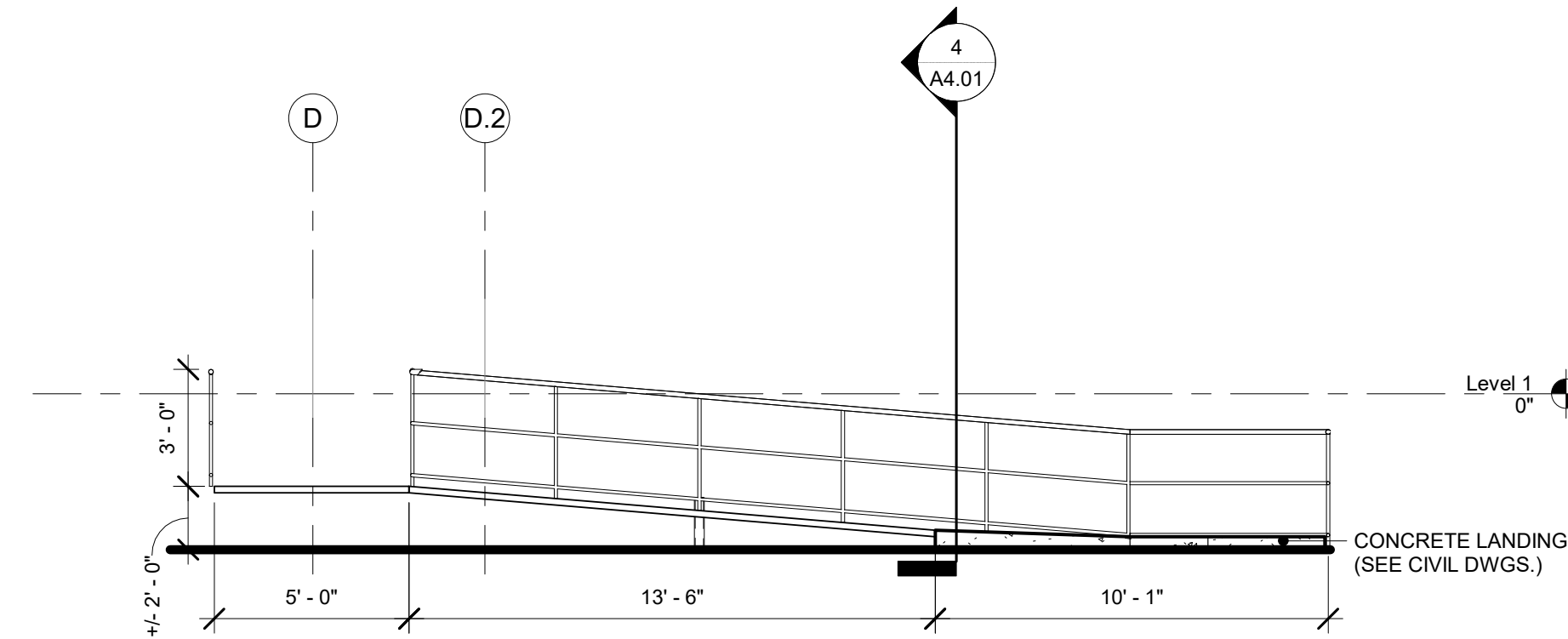


**6** RAMP SECTION - 2 - ADD ALTERNATE #1  
A7.03 SCALE: 1/4" = 1'-0"

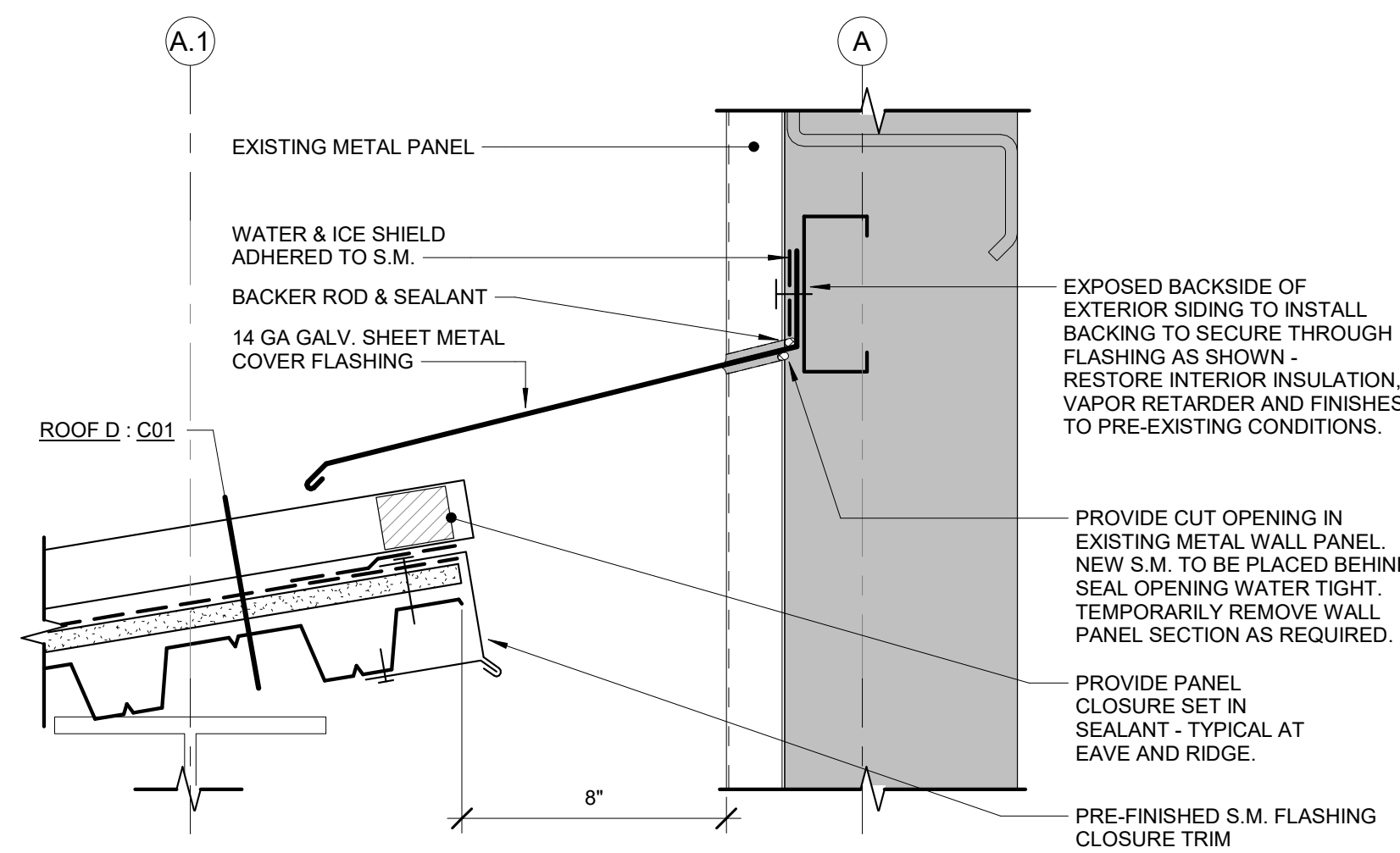


NOTE: REFERENCE 4/S4.02 FOR STRUCTURAL BENT PLATE REQUIREMENTS

**5** DRIP EDGE - NORTH CANOPY  
A7.03 SCALE: 3" = 1'-0"

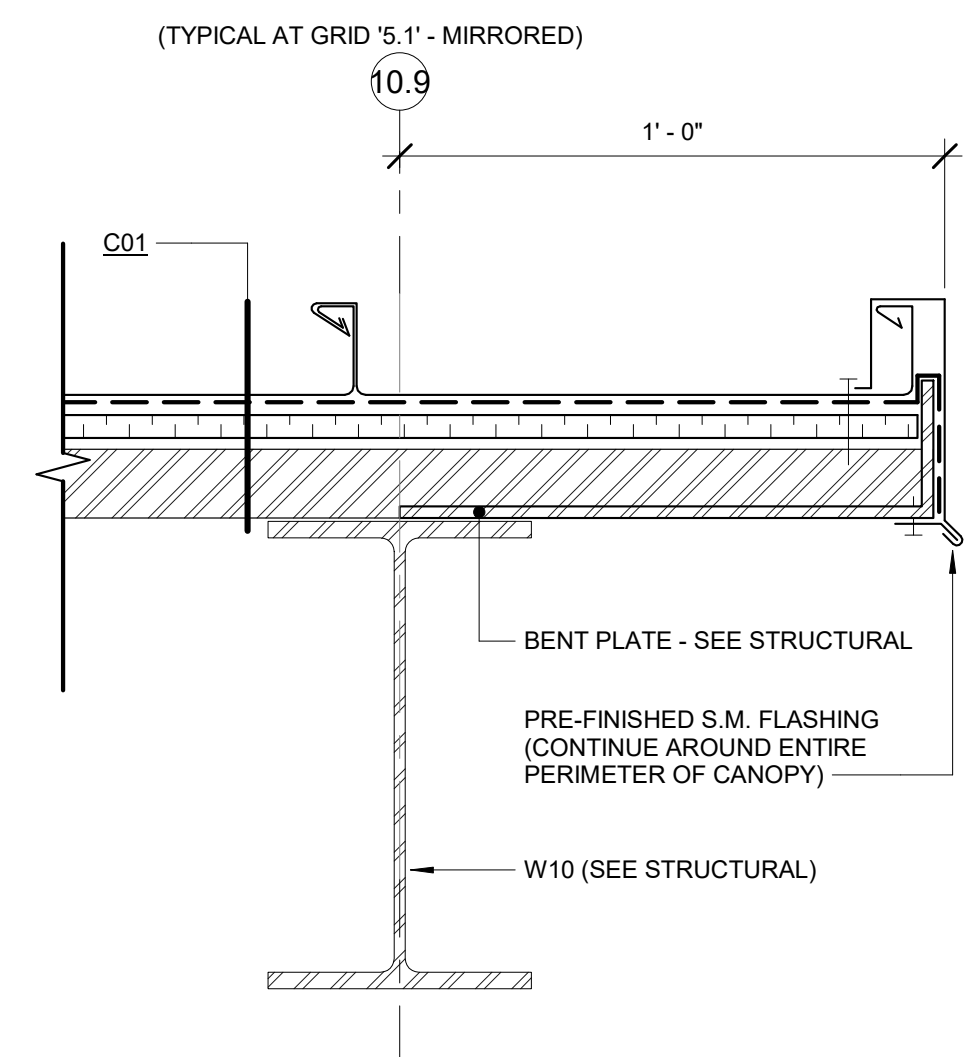


**4** RAMP SECTION - 1 - ADD ALTERNATE #1  
A7.03 SCALE: 1/4" = 1'-0"

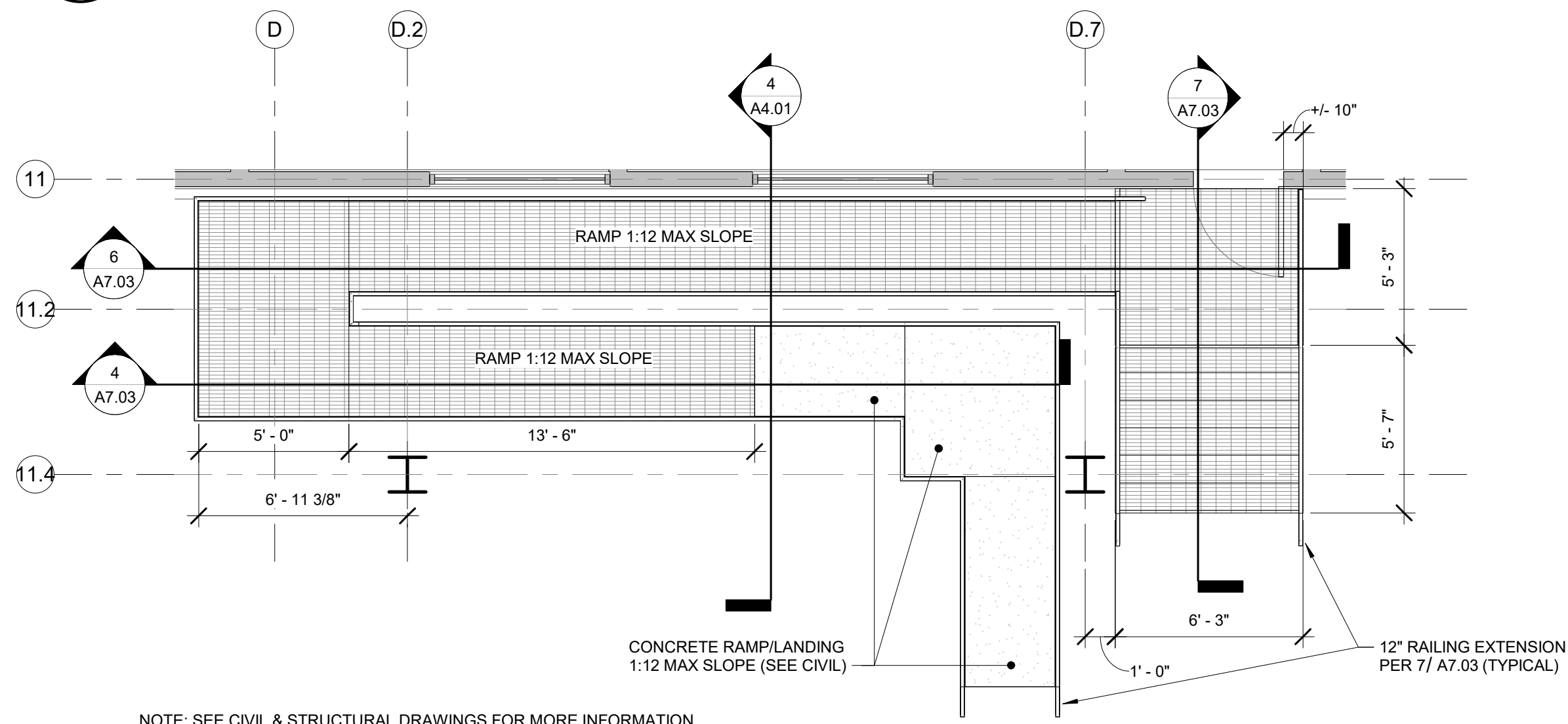


NOTE: REFERENCE 4/S4.02 FOR STRUCTURAL BENT PLATE REQUIREMENTS

**3** RAIN/SNOW GUARD - NORTH CANOPY  
A7.03 NOT TO SCALE



**2** RAKE - NORTH CANOPY  
A7.03 SCALE: 3" = 1'-0"



NOTE: SEE CIVIL & STRUCTURAL DRAWINGS FOR MORE INFORMATION

**1** WEST ENTRY PLAN - ADD ALTERNATE #1  
A7.03 SCALE: 1/4" = 1'-0"

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DETAILS  
**A7.03**

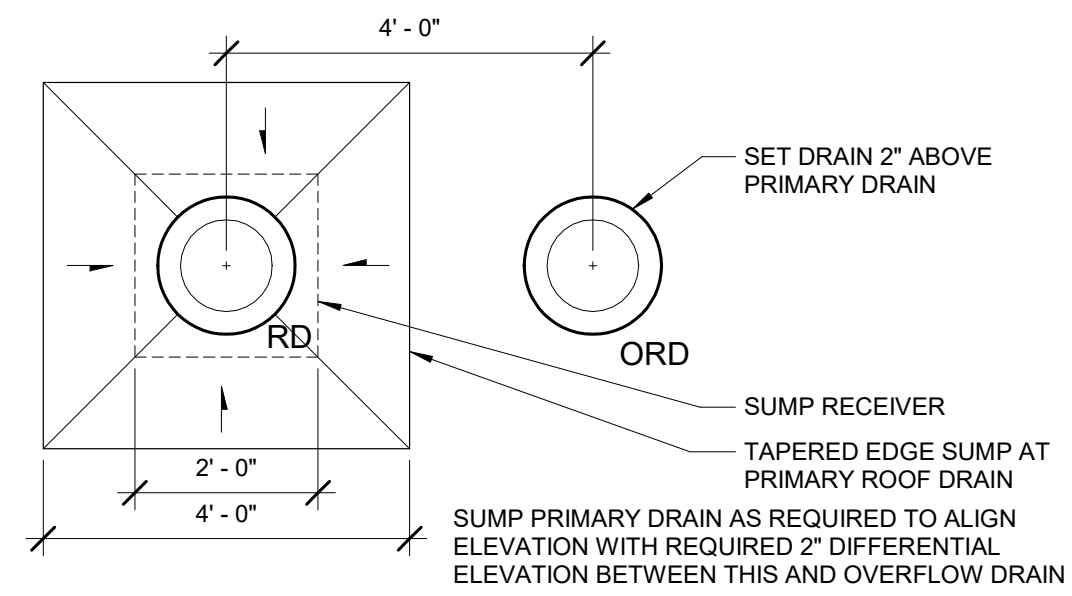




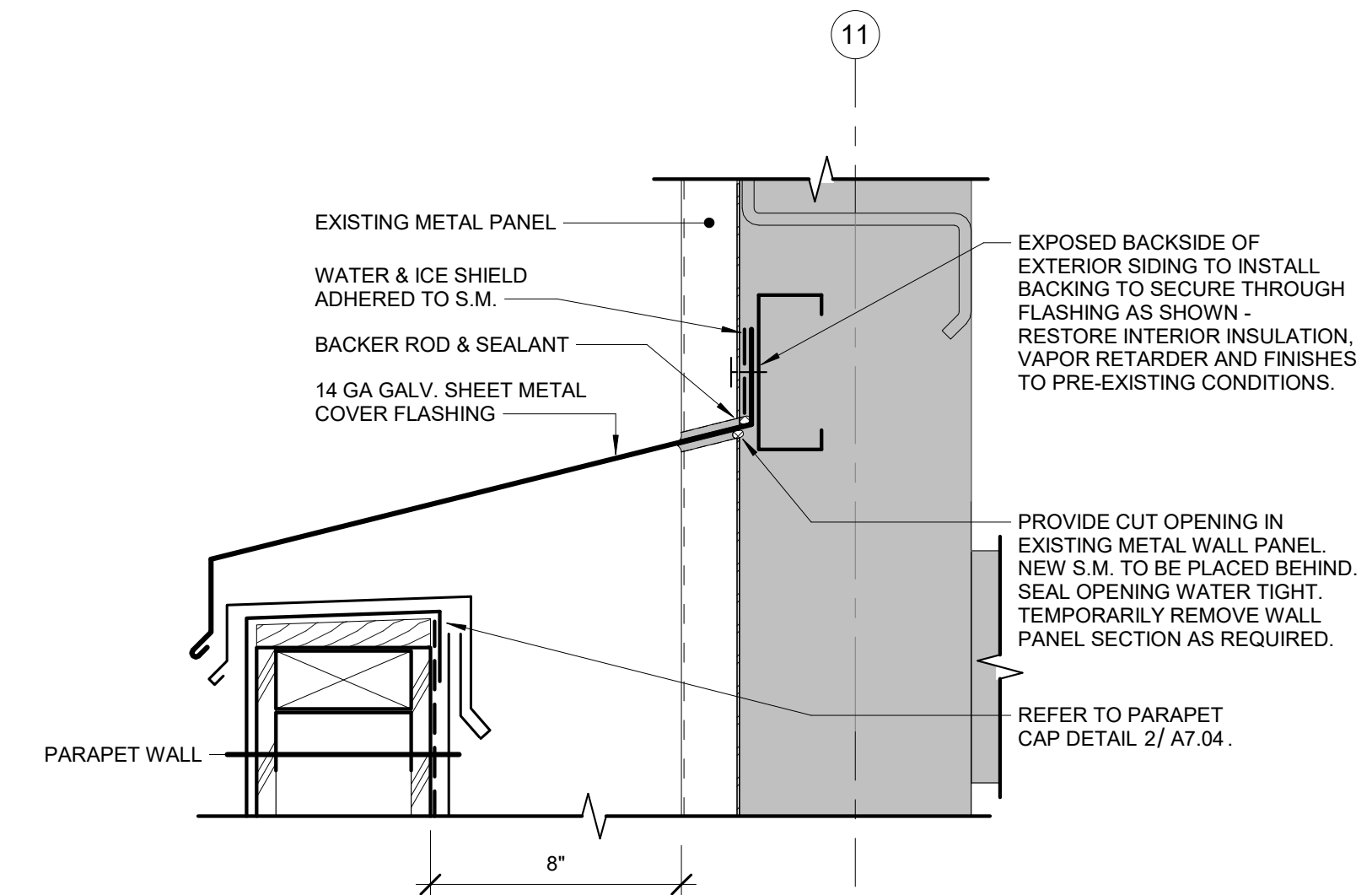
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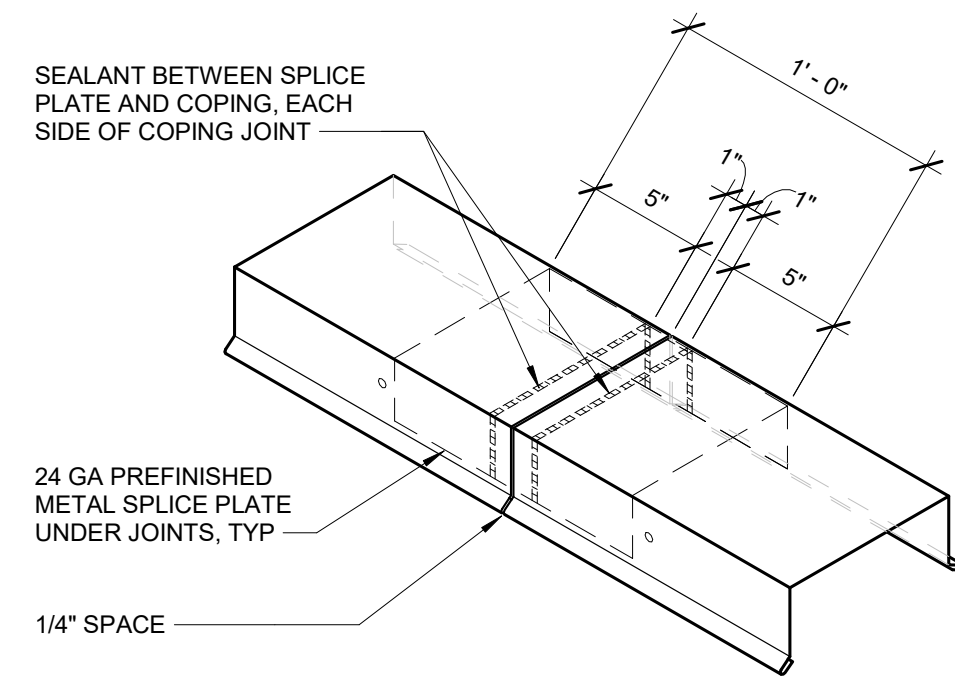
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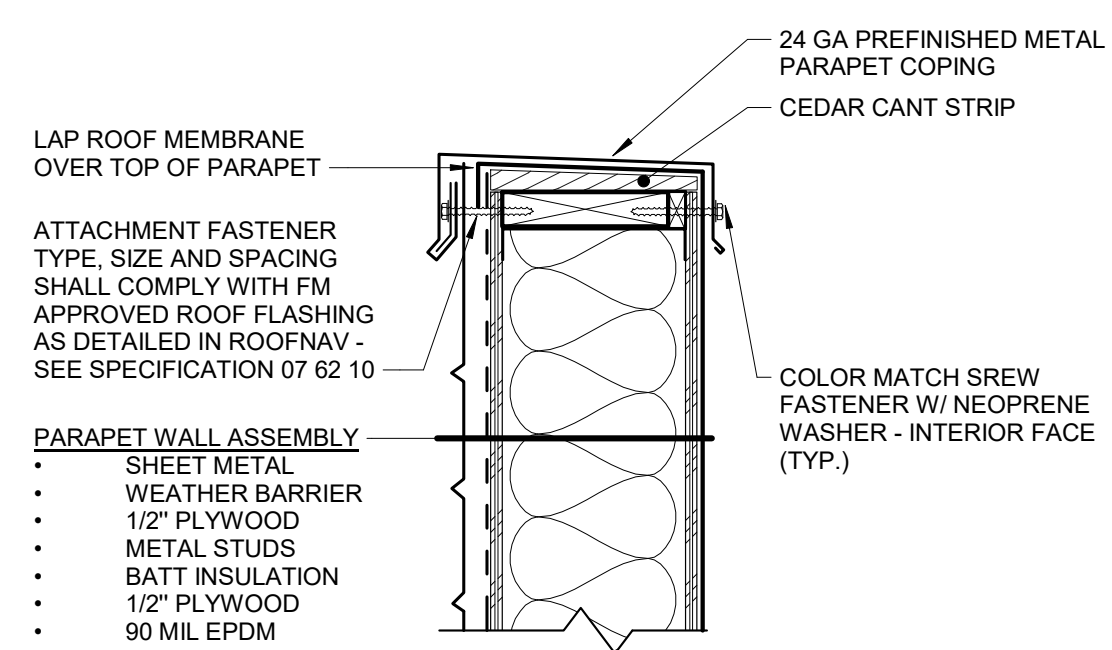
5 RD/ORD SCHEMATIC  
A7.04 SCALE: 1/2" = 1'-0"



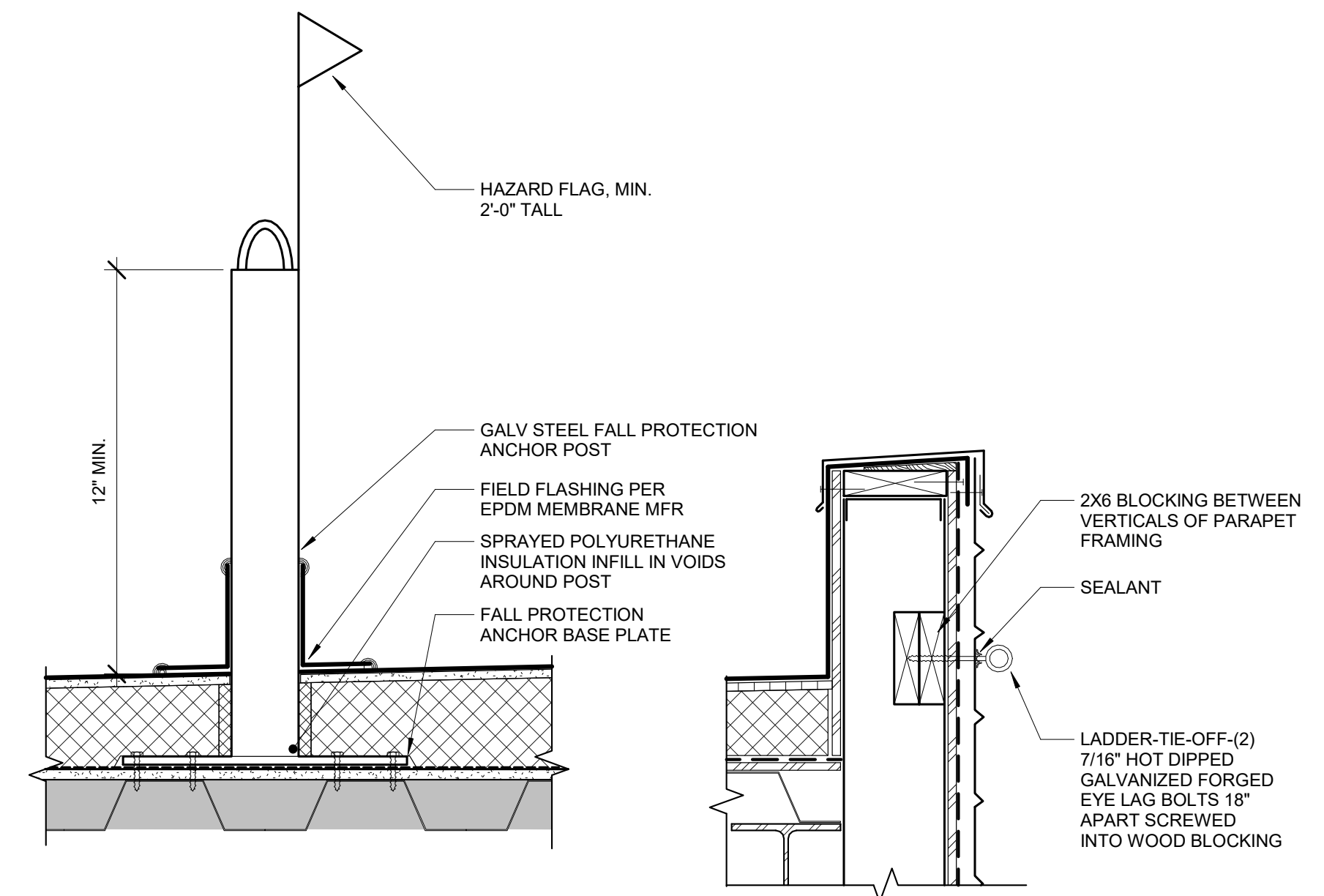
4 RAIN/SNOW GUARD - WEST CANOPY - ALTERNATE #1  
A7.04 SCALE: 3" = 1'-0"



3 TYPICAL COPING LAP  
A7.04 SCALE: 1 1/2" = 1'-0"



2 TYPICAL PARAPET CAP  
A7.04 SCALE: 1 1/2" = 1'-0"



1 ANCHOR POST AND LADDER TIE-OFF DETAIL - ALTERNATE #1  
A7.04 SCALE: 1 1/2" = 1'-0"

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PURCHASING/WAREHOUSE ROOF REPLACEMENT AND STRUCTURAL UPGRADES  
4919 VAN BUREN ST  
BDS Project No.: 023003  
Client Project No.: 065006  
BID DOCUMENTS  
December 18, 2023

DETAILS  
**A7.04**

## ABBREVIATIONS

&	AND	DIAG	DIAGONAL	LB, #	POUND	SIM	SIMILAR
@	AT	DIAPH	DIAPHRAGM	LF	LINEAL FOOT	SJI	STEEL JOIST INSTITUTE
A&B	ABOVE & BELOW	DIM	DIMENSION	LL	LIVE LOAD	SOG	SLAB ON GRADE
AB	CAST-IN-PLACE ANCHOR BOLT	DL	DEAD LOAD	LLBB	LONG LEGS BACK TO BACK	SPC	SPACE, SPACED, SPACING
ACI	AMERICAN CONCRETE INSTITUTE	DN	DOWN	LLH	LONG LEG HORIZONTAL	SPEC	SPECIFICATION
ADD'L	ADDITIONAL	DO	DITTO	LLV	LONG LEG VERTICAL	SQ	SQUARE
ADJ	ADJACENT, ADJUSTABLE	DP	DEEP	LOC	LOCATION, LOCATE	SS	STAINLESS STEEL
AFF	ABOVE FINISHED FLOOR	DTL	DETAIL	LONGIT	LONGITUDINAL	SSH	SHORT SLOTTED HOLE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	DWG	DRAWING	LP	LOW POINT	STAG	STAGGER, STAGGERED
AISI	AMERICAN IRON AND STEEL INSTITUTE	DWL	DOWEL	LSH	LONG SLOTTED HOLE	STD	STANDARD
ALT	ALTERNATE	(E)	EXIST EXISTING	LSL	LAMINATED STRAND LUMBER	STIFF	STIFFENER
ALUM	ALUMINUM	EA	EACH	LVL	LEVEL, OR LAMINATED VENEER LUMBER	STIR	STIRRUP
ANCH	ANCHOR, ANCHORAGE	EE	EACH END			STL	STEEL
APA	AMERICAN PLYWOOD ASSOCIATION	EF	EACH FACE	MATL	MATERIAL	STRUC	STRUCTURAL
APPROX	APPROXIMATE	EJ	EXPANSION JOINT	MAX	MAXIMUM	SUPP	SUPPORT
AR	ANCHOR ROD	EL	ELEVATION	MB	MACHINE BOLT	SYM	SYMMETRICAL, SYMMETRY
ARCH	ARCHITECT, ARCHITECTURAL	EMB	EMBEDMENT	MECH	MECHANICAL	SW	SHEAR WALL
ARND	AROUND	ENGR	ENGINEER	MF	MOMENT FRAME	T/	TOP OF
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	EQ	EARTHQUAKE, EQUAL	MFR	MANUFACTURER	T&B	TOP AND BOTTOM
ASSY	ASSEMBLY	EQIP	EQUIPMENT	MIN	MINIMUM	T&G	TONGUE AND GROOVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	ES	EACH SIDE	MISC	MISCELLANEOUS	TEMP	TEMPERATURE
AWS	AMERICAN WELDING SOCIETY	ETC	ET CETERA	MPH	MILES PER HOUR	THK	THICK, THICKNESS
		E-W	EAST-WEST	MTL	METAL	THRU	THROUGH
		EXP	EXPANSION	NA	NOT APPLICABLE	TOC	TOP OF CONCRETE
		EXT	EXTERIOR	NIC	NOT IN CONTRACT	TOF	TOP OF FOOTING
				NOM	NOMINAL	TOS	TOP OF STEEL
				NO, #	NUMBER	TR	THREADED ROD
B/	BOTTOM OF	FD	FLOOR DRAIN	N-S	NORTH-SOUTH	TRANS	TRANSVERSE
BAL	BALANCE	FDN	FOUNDATION	NS	NEAR SIDE, NONSHRINK	TYP	TYPICAL
BF	BRACED FRAME	FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY	NTS	NOT TO SCALE	TWS	THREADED WELDED STUD
BLDG	BUILDING	FF	FAR FACE, FINISH FLOOR			UON	UNLESS OTHERWISE NOTED
BLKG	BLOCKING	FIN	FINISH	OC	ON CENTER	VERT	VERTICAL
BM	BEAM	FLR	FLOOR	OD	OUTSIDE DIAMETER	W	WIDTH, WIDE FLANGE
BOD	BOTTOM OF DECK	FLG	FLANGE	OF	OUTSIDE FACE	w/	WITH
BOT	BOTTOM	FOW	FACE OF WALL	OPNG	OPENING	WD	WOOD
BRG	BEARING	FS	FAR SIDE	OPP	OPPOSITE	WHS	WELDED HEADED STUD
BSMT	BASEMENT	FT, '	FEET	OSH	OVERSIZED HOLE	W/O	WITHOUT
BTWN	BETWEEN	FTG	FOOTING	OWJ	OPEN WEB JOIST	WP	WORK POINT
BU	BUILT-UP	FV	FIELD VERIFY	PC	PIECE, PRECAST	WT	WEIGHT
				PCF	POUNDS PER CUBIC FOOT	WWR	WELDED WIRE REINFORCEMENT
C	CAMBER, CHANNEL	GA	GAUGE	PEN	PENETRATION		
CANT	CANTILEVER	GALV	GALVANIZED	PERP	PERPENDICULAR		
CAP	CAPACITY	GB	GRADE BREAK	PL	PLATE, PROPERTY LINE		
CC	CENTER-TO-CENTER	GEN	GENERAL	PLCS	PLACES		
CDF	CONTROL DENSITY FILL	GL	GLUED LAMINATED MEMBER	PLF	POUNDS PER LINEAL FOOT		
CF	COLD-FORMED	GLULAM	GLUED LAMINATED BEAM	PLWD	PLYWOOD		
CG	CENTER OF GRAVITY	GLB	GLUED LAMINATED BEAM	PNL	PANEL		
CIP	CAST-IN-PLACE	GR	GRADE	PJP, PP	PARTIAL JOINT PENETRATION		
CJ	CONTROL JOINT, CONSTRUCTION JOINT	GRND	GROUND	PREFAB	PREFABRICATED		
CJP, CP	COMPLETE JOINT PENETRATION	GWB	GYPSON WALL BOARD	PS	PRESTRESS		
CL	CENTERLINE	HF	HEM-FIR	PSF	POUNDS PER SQUARE FOOT		
CLG	CEILING	HGR	HANGER	PSI	POUNDS PER SQUARE INCH		
CLR	CLEAR	HK	HOOK	PSL	PARALLEL STRAND LUMBER		
CMU	CONCRETE MASONRY UNIT	HKP	HOUSEKEEPING PAD	PT	POINT, PRESSURE TREATED		
COL	COLUMN	HORIZ, H	HORIZONTAL	P-T	POST-TENSIONED		
CONC	CONCRETE	HP	HIGH POINT	PVC	POLYVINYL CHLORIDE		
CONN	CONNECTION	HSB	HIGH STRENGTH BOLT				
CONST	CONSTRUCTION	HSS	HOLLOW STRUCTURAL SECTION	R	RAD RADIUS		
CONT	CONTINUE, CONTINUOUS	HT	HEIGHT	RD	ROOF DRAIN		
CONTR	CONTRACTOR			REF	REFERENCE		
COORD	COORDINATE			REINF	REINFORCING		
CP	COMPLETE PENETRATION	IBC	INTERNATIONAL BUILDING CODE	REM	REMAINDER		
CRSI	CONCRETE REINFORCED STEEL INSTITUTE	ID	INSIDE DIAMETER	REQD	REQUIRED		
CTR	CENTER, CENTERED	IF	INSIDE FACE	RND	ROUND		
CY	CUBIC YARD	IN, "	INCH	RO	ROUGH OPENING		
		INCL	INCLUDE	RTN	RETURN		
		INFO	INFORMATION	SBN	SHEAR WALL BOUNDARY NAILING		
d	PENNYWEIGHT (NAILS)	INT	INTERIOR	SC	SLIP CRITICAL		
DB	DIVIDER BEAM, DROPPED BEAM	IJ	ISOLATION JOINT	SCHED	SCHEDULE		
DBA	DEFORMED BAR ANCHOR			SECT	SECTION		
DBL	DOUBLE	JST	JOIST	SHT	SHEET		
DBN	DIAPHRAGM BOUNDARY NAILING	JT	JOINT				
DEG, °	DEGREE	K	KIP (1,000 LB)				
DEMO	DEMOLISH, DEMOLITION	KSF	KIPS PER SQUARE FOOT				
DF	DOUGLAS FIR	KSI	KIPS PER SQUARE INCH				
DFL	DOUGLAS FIR-LARCH						
DIA, Ø	DIAMETER	L	LENGTH, ANGLE				

**NOTIFICATION OF POTENTIAL HAZARDS:**  
Asbestos, lead, and other hazardous materials are present in the building and may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on Architectural, Structural, Mechanical, and Electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. This notification is provided in accordance with EPA and OSHA requirements.

## SYMBOLS

### GENERAL SYMBOLS

	GRID BUBBLE		TOP OF SLAB RELATIVE TO DATUM
	GRID LINE		TOP OF FOOTING RELATIVE TO DATUM
	NORTH ARROW		TOP OF WALL OR BEAM ELEVATION
	NORTH ARROW		ELEVATION RELATIVE TO DATUM
	SOIL		WORK POINT
	OPENING IN FLOOR OR WALL		DIRECTION OF SPAN
			EXTENTS OF SPAN (IF APPLICABLE)
			SLOPE
			SURFACE - SLOPE UP
			SURFACE - SLOPE DOWN
			SURFACE - SLOPE TWO WAYS
			SURFACE - STEPPED

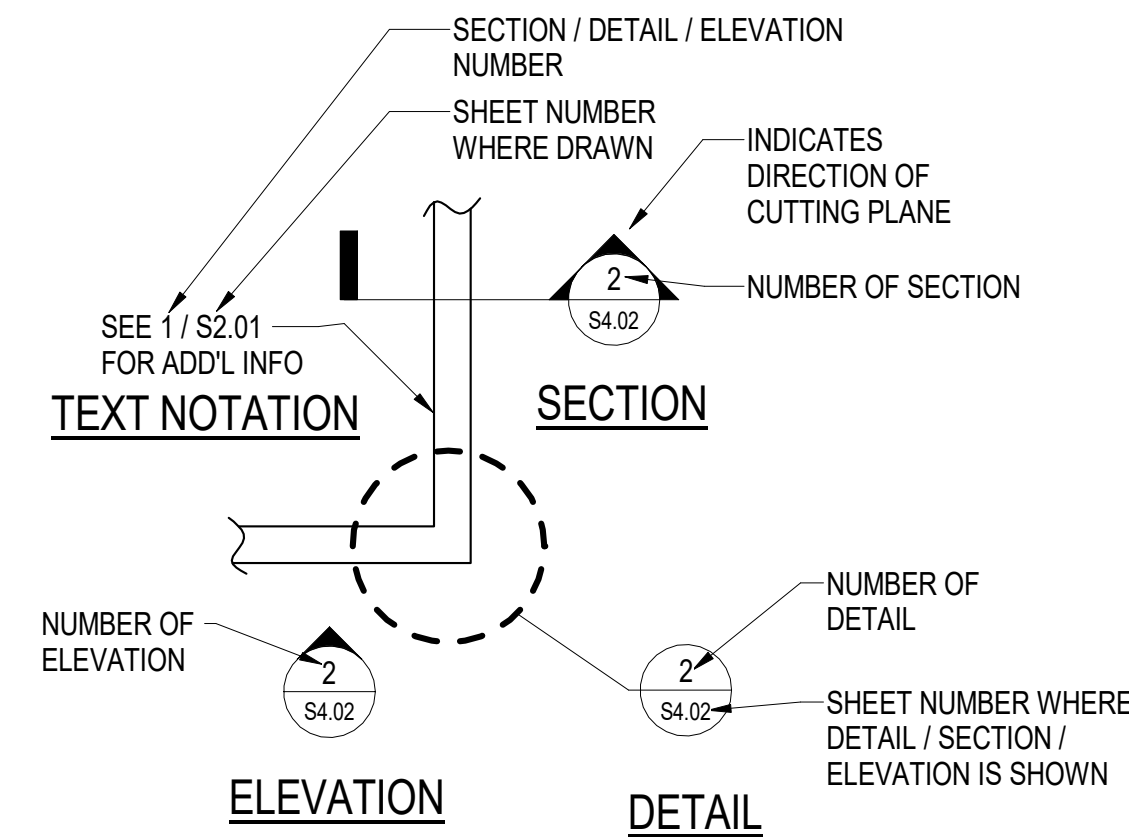
### CONNECTORS

	CONCRETE ANCHOR BOLT
	DRILL IN CONCRETE ANCHOR
	BOLT
	NAIL

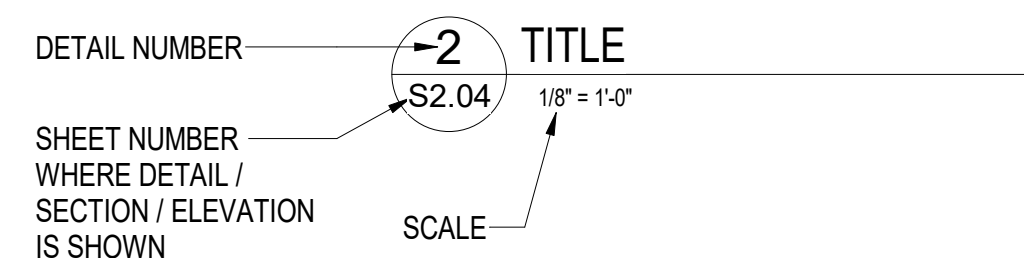
### CONCRETE SYMBOLS

	CONCRETE WALL IN SECTION
	CONCRETE CURB/PARTIAL HEIGHT WALL
	CONCRETE WALL BELOW THIS LEVEL
	CHANGE OF SLAB THICKNESS

### DETAIL IDENTIFIERS



### DETAIL LABEL



### STEEL SYMBOLS

	BEAM/GIRDER
	COLUMN
	BEAM/COLUMN SPLICE
	STEEL IN CROSS SECTION
	CANTILEVER CONNECTION PER 4/S3.03



Anchorage School District

### REVISIONS

No Description Date

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ASD PURCHASING  
WAREHOUSE ROOF  
REPLACEMENT

4919 VAN BUREN ST  
BDS Project No.: 023003  
Client Project No.:  
BID DOCUMENTS  
12/18/23

STRUCTURAL  
ABBREVIATIONS  
**S0.01**





## Anchorage School District

### REVISIONS

No Description Date

### STRUCTURAL STEEL (CONTINUED)

ALL CONNECTIONS MUST BE SIMPLE, SINGLE PLATE SHEAR CONNECTIONS USING HIGH-STRENGTH BEARING TYPE BOLTS WITH THREADS INCLUDED IN THE SHEAR PLANE, A325-N, UON. ONE PLY OF THE CONNECTION MUST USE SHORT-SLOTTED HOLES ORIENTED HORIZONTALLY.

ALL BOLTS AND NUTS MUST BE PRETENSIONED AND ALL PLIES OF THE JOINT MUST BE PREPARED AS CLASS 'A' FAYING SURFACES PER AISC 360 SECTION J3.8.

THE CONTRACTOR MUST BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES. CONSIDERATION SHOULD BE GIVEN TO TEMPERATURE DIFFERENTIALS, ESPECIALLY WITH RESPECT TO STRUCTURAL STEEL FRAMING INTO CONCRETE WALLS, BEAMS, OR COLUMNS.

ALL STEEL MUST BE HOT-DIP GALVANIZED PER ASTM A123. TOUCH-UP AND REPAIR GALVANIZATION MUST CONFORM TO ASTM A780. FASTENERS MUST COMPLY WITH ASTM A153.

THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. THESE DRAWINGS MUST BE CHECKED BY THE CONTRACTOR BEFORE SUBMITTAL AND MUST SHOW SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS, AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL. ALSO SUBMIT WELDERS' QUALIFICATIONS.

ALL STRUCTURAL STEEL MUST BE IN ACCORDANCE WITH AISC 303, SECTION 10. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) TO BE CATEGORY 1.

### STRUCTURAL STEEL DECK

ALL STEEL DECKING MUST MEET ASTM A 653-SS, GRADE 50, WITH A MINIMUM YIELD STRENGTH OF 50 KSI. ALL DECKING MUST BE GALVANIZED PER ASTM A653-G60. ALL ROOF METAL DECK MUST BE LAPPED A MINIMUM OF 2-INCHES.

MINIMUM DECK GAGES ARE SHOWN ON PLANS AND ARE BASED ON 3-SPAN, UNSHORED CONDITIONS. HEAVIER DECK MAY BE REQUIRED FOR OTHER CONDITIONS, DEPENDING ON THE MANUFACTURER'S AND CONTRACTOR'S LAYOUT. ALL DECK MUST SATISFY AISI, "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".

FASTEN STEEL DECKING PER SCHEDULE:

ROOF DECK\_Q-Design(LRFD)= 322 PLF;  
SUPPORTING STEEL: g4 PATTERN, 7/8-INCH DIAMETER VISUAL (1/2-INCH EFFECTIVE) PUDDLE WELDS AT 12-INCHES ON CENTER.  
SIDE LAPS: TOP SEAM WELDED AT 12-INCHES MAXIMUM ON CENTER. CRIMP SIDE LAPS BEFORE WELDING.

"PUNCHLOCK" OR "DELTA-GRIP" OR OTHER ENHANCED PUNCHING CONNECTION SYSTEM MAY BE SUBSTITUTED FOR ROOF SIDE LAPS, AND MECHANICAL "PAF" FASTENERS MAY BE SUBSTITUTED FOR SUPPORTING STEEL CONNECTIONS. CONTRACTOR MUST SUBMIT CALCULATIONS TO SHOW UNIT SHEAR CAPACITIES OF ALTERNATE FASTENER LAYOUT EXCEEDS THE "Q-design" INDICATED ABOVE.

THE DECK SUPPLIER MUST CONFIRM THE DECK SIZE FOR THE ACTUAL LAYOUT AND PROVIDE THE ENGINEER WITH ENGINEERING CALCULATIONS OR PUBLISHED MANUFACTURER'S DATA VERIFYING THE SPECIFIED DECK REQUIREMENTS.

PROVIDE CHECKED SHOP DRAWINGS INDICATING LOCATION, GAGE, AND SIZE OF EACH PIECE OF DECKING. THE DRAWINGS MUST CLEARLY SHOW WELDING DETAILS TO STRUCTURAL FRAMING AND SIDE LAP CONNECTIONS DETAILS.

### STEEL GRATING

GRATING AND STAIR TREADS SHALL BE GALVANIZED TYPE 11-W-4, 1 1/2" x 3/16" BEARING BARS WITH A SERRATED SURFACE AND SPAN PERPENDICULAR TO PATH OF TRAVEL. STEEL SHALL MEET ASTM A1011 AND HAVE A MINIMUM YIELD STRESS OF 30 KSI. GRATING AND STAIR TREADS MUST BE IBC EGRESS PATH AND ADA COMPLIANT.

GRATING TO BE SECURED TO SUPPORTING STRUCTURE WITH WELDS, WELD LUGS, OR SIMILAR ATTACHMENT PER MFR.

### COLD FORMED STEEL

COLD FORMED STEEL MUST MEET ASTM A1003 STRUCTURAL GRADE 50 TYPE H (Fy=50 KSI) FOR 14 GAUGE (68 MIL) OR 16 GAUGE (54 MIL) MEMBERS AND ASTM A1003 STRUCTURAL GRADE 33 TYPE H (Fy=33 KSI) FOR 18 GAUGE (43 MIL) AND LIGHTER MEMBERS.

ALL STRUCTURAL MEMBERS MUST BE DESIGNED PER THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

USE ONLY ONE MANUFACTURER OF COLD FORMED JOIST THROUGHOUT THE WORK, UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR SPECIFICALLY APPROVED IN ADVANCE BY THE ENGINEER. ACCEPTABLE JOIST MANUFACTURERS INCLUDE ANY MEMBER OF THE STEEL STUD MANUFACTURER'S ASSOCIATION.

PROVIDE ALL ACCESSORIES INCLUDING TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS, AND OTHER ITEMS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. INSTALL ALL ITEMS RECOMMENDED BY THE MANUFACTURER.

FASTENING OF COMPONENTS MUST BE WITH SELF-DRILLING SCREWS (ASTM C1513) OR WELDS OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS MUST NOT BE PERMITTED. ALL WELDS MUST BE TOUCHED UP WITH A ZINC-RICH PAINT.

### NOTIFICATION OF POTENTIAL HAZARDS:

Asbestos, lead, and other hazardous materials are present in the building and may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on Architectural, Structural, Mechanical, and Electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. This notification is provided in accordance with EPA and OSHA requirements.

### STRUCTURAL CONCRETE CONTINUED

ALL CONCRETE REINFORCING MUST BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 315, ACI 318, CRSI MSP-1 AND ACI SP-66. DOWELS MUST MATCH SIZE AND NUMBER OF MAIN REINFORCING.

TYPICAL REINFORCING BARS MUST BE ASTM A615, GRADE 60. LAP SPLICES MUST BE CLASS B LAPS PER ACI (63 X BAR DIAMETER). LAP SPLICES MAY ALSO ACCOMPLISHED USING MECHANICAL DEVICES THAT DEVELOP 125% OF THE STRENGTH OF THE REBAR.

CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. SUBMIT MIX DESIGNS FOR REVIEW PRIOR TO USE.

EMBEDDED ITEMS (CONDUIT AND SLEEVES) MUST NOT BE EMBEDDED IN OR PASS THROUGH CONCRETE WITHOUT APPROVAL. ALUMINUM ITEMS MUST NOT BE EMBEDDED IN CONCRETE. SUBMIT CONDUIT LAYOUT AND EMBEDDED ITEM PLANS FOR REVIEW PRIOR TO PLACING CONCRETE.

NON-SHRINK GROUT MUST BE NON-METALLIC, CONFORMING TO ASTM C1107.

### POST-INSTALLED ANCHORS

INSTALLATION MUST CONFORM TO MANUFACTURER'S INSTRUCTIONS AND REQUIREMENTS OF ICC-ES REPORT. ALL POST-INSTALLED ANCHORS MUST HAVE A CURRENT ICC-ES REPORT AND BE AUTHORIZED FOR USE IN SEISMIC DESIGN CATEGORY D, PERIODIC SPECIAL INSPECTION IS REQUIRED FOR ALL POST-INSTALLED ANCHORS, UON. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY MUST BE PERFORMED BY ACI/CRSI CERTIFIED PERSONNEL ONLY AND REQUIRES CONTINUOUS SPECIAL INSPECTION.

THREADED ROD MUST BE ASTM A307, UON (OR ISO898 CLASS 5.8), TENSILE STRENGTH OF 60 KSI MIN, AND GALVANIZED WHERE EXPOSED TO THE WEATHER.

HOLES MUST BE HAMMER DRILLED. EXISTING BASE MUST BE SCANNED PRIOR TO DRILLING HOLES. EXISTING REBAR LOCATIONS MUST BE MARKED, AND NEW ANCHOR LOCATIONS REVISED TO AVOID EXISTING REINFORCING. NO REINFORCING BARS MUST BE CUT TO INSTALL ANCHORS. ALL DEFECTIVE ANCHOR HOLES MUST BE GROUTED AND A NEW HOLE DRILLED A MINIMUM OF 3 BOLT DIAMETERS AWAY.

ADHESIVE ANCHORS FOR THREADED ROD AND REBAR MUST BE ONE OF THE FOLLOWING (OR AN APPROVED EQUIVALENT):

CONCRETE:

- DEWALT "PURE110+" (ESR-3298)
- HILTI "HIT-HY 200 V3" (ESR-4868)
- EPCON "A7+" (ESR-3903)
- SIMPSON "SET-XP" (ESR-2508)

MASONRY (SOLID & UNGROUTED):

- SIMPSON "SET-XP" (IAPMO UES ER-265)
- HILTI "HY-270" (ESR-4143 GROUTED CMU or ESR-4144 UNGROUTED CMU)
- DEWALT "AC100+gold" (ESR-3200)

SCREW ANCHORS IN CONCRETE MUST BE ONE OF THE FOLLOWING (OR AN APPROVED EQUIVALENT):

- HILTI "KH-EZ" (ESR-3027)
- SIMPSON "TITEN HD" (ESR-2713)
- ITW "TAPCON" (ESR-3689)
- DEWALT "SCREW-BOLT+" (ESR-3889)

### STRUCTURAL STEEL

MATERIALS:

- WIDE-FLANGE SHAPES: ASTM A992
- STRUCTURAL STEEL TUBES (HSS): ASTM A500, GRADE C
- STRUCTURAL STEEL PIPES: ASTM A53, GRADE B
- HP PILES: SEE STEEL PILES
- ALL OTHER SHAPES & PLATE: ASTM A36
- BOLTS, WASHERS & NUTS: ASTM F3125, F436 & A563
- HARDENED WASHERS: ASTM F436
- WELDED STEEL STUDS: ASTM A108
- HEADED ANCHOR RODS: ASTM F1554, GRADE 36

ALL DETAILING, FABRICATION AND ERECTIONS MUST CONFORM TO AISC SPECIFICATIONS AND CODES, LATEST EDITION. FABRICATOR MUST PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM, BE CERTIFIED BY THE MUNICIPALITY OF ANCHORAGE, OR SPECIAL INSPECTIONS AT THE CONTRACTOR'S EXPENSE, MUST BE PROVIDED IN THE FABRICATION SHOP.

ALL WELDING MUST BE DONE BY QUALIFIED WELDERS AND MUST CONFORM TO THE AWS D1.1 AND D1.8, LATEST EDITIONS. ALL WELDING ELECTRODES MUST BE PROPERLY CONDITIONED 70 KSI MINIMUM TENSILE STRENGTH, WITH DIFFUSED HYDROGEN LEVELS OF 16ml/g (H16) OR LESS IN ACCORDANCE WITH AWS A4.3.

WELDS NOT SPECIFIED MUST BE SHOP-PERFORMED CONTINUOUS OR ALL-AROUND 3/16" FILLET WELDS.

WELD FILLER METAL FOR COMPLETE-JOINT-PENETRATION GROOVE WELDS MUST MEET THE FOLLOWING ADDITIONAL REQUIREMENTS:

- MINIMUM YIELD STRENGTH: 58 KSI
- CVN TOUGHNESS: 20 FT LBS AT 0°F
- ELONGATION: 22% MINIMUM

STEEL DECK AND COLD-FORMED STEEL MAY BE WELDED WITH E60 ELECTRODES. WELDING MUST BE IN ACCORDANCE WITH AWS D1.3, "SPECIFICATION FOR THE WELDING OF SHEET STEEL IN STRUCTURES".

THERE MUST BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

### STEEL PILES

STEEL PILES AT THE CANOPIES ARE DESIGNED PER THE GEOTECHNICAL INVESTIGATION REPORT, "GEOTECHNICAL CONSIDERATIONS, EXTERIOR CANOPY STRUCTURES, ANCHORAGE SCHOOL DISTRICT WAREHOUSE, 4919 VAN BUREN DRIVE, ANCHORAGE, ALASKA", DATED DECEMBER 12, 2023, BY WSP, AND PER IBC SECTION 1810. PER IBC SECTION 1810.2.1, PILES ARE CONSIDERED Laterally SUPPORTED AT A POINT 10 FEET BELOW FINISHED GRADE. PILES SHALL BE DRIVING TO A MINIMUM EMBED PER DETAILS. HP PILES TO BE ASTM A572 GR. 50.

MAXIMUM PILE LOADS (PER PILE APPLIED AT TOP OF PILE):

WEST CANOPY  
DEAD LOAD = 3.5 K AXIAL; 20.6 K-FT BENDING  
SNOW LOAD = 22.6 K AXIAL; 87.0 K-FT BENDING  
SEISMIC LOAD = 6.4 K SHEAR

NORTH CANOPY  
DEAD LOAD = 5.0 K AXIAL  
SNOW LOAD = 31.3 K AXIAL  
SEISMIC LOAD = 4.2 K SHEAR ALONG MEMBER X-AXIS, 13.0 K SHEAR ALONG MEMBER Y-AXIS

### EXISTING CONDITIONS

CONTRACTOR MUST VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING WORK. DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. EXISTING CONDITIONS SHOWN ON DRAWINGS ARE BASED ON EITHER SITE OBSERVATIONS, ORIGINAL DRAWINGS, OR WERE ASSUMED BASED ON EXPECTED CONDITIONS. IF EXISTING CONDITIONS DO NOT CLOSELY MATCH CONDITIONS SHOWN ON DRAWINGS, OR IF EXISTING MATERIALS ARE OF QUESTIONABLE OR SUBSTANDARD QUALITY, NOTIFY ENGINEER PRIOR TO COMMENCING WORK.

### SPECIAL INSPECTION

THE OWNER MUST ENGAGE A SPECIAL INSPECTOR PER CHAPTER 17 OF THE IBC. SEE STATEMENT OF SPECIAL INSPECTIONS ON SHEETS S0.03 AND S0.04. COPIES OF INSPECTION REPORTS MUST BE AVAILABLE TO THE CONSTRUCTION SITE FOR REVIEW BY THE MOA BUILDING SAFETY PERSONNEL.

### DEFERRED SUBMITTALS

THE FOLLOWING ITEMS ARE NOT INCLUDED IN THESE DRAWINGS AND REQUIRE STRUCTURAL DESIGN TO BE FURNISHED BY THE CONTRACTOR:

1. SEISMIC ANCHORAGE OF MECHANICAL & ELECTRICAL EQUIPMENT
2. ROOF FALL PROTECTION RAILING AND ATTACHMENT
3. RAMP AND STAIR RAILING AND ATTACHMENT

DRAWINGS AND CALCULATIONS FOR BUILDER-DESIGNED COMPONENTS, SEALED BY AN ALASKA STATE REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN, MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW FOR GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS PRIOR TO SUBMITTING TO BUILDING SAFETY FOR REVIEW. SUBMITTALS OF BUILDER-DESIGNED ITEMS MUST INCLUDE LOCATIONS, MAGNITUDES, AND DIRECTIONS OF ALL FORCES TRANSFERRED TO THE STRUCTURE. DEFERRED SUBMITTALS MUST BE REVIEWED AND APPROVED BY BUILDING SAFETY PRIOR TO INSTALLATION/CONSTRUCTION.

### SUBMITTALS

THE CONTRACTOR MUST REVIEW, STAMP WITH THEIR APPROVAL, DATE AND SIGN ALL SHOP DRAWINGS AND SUBMITTALS REQUIRED BY THE CONTRACT DRAWINGS PRIOR TO SUBMITTAL TO THE ENGINEER. AT THE TIME OF SUBMISSION, THE CONTRACTOR MUST INFORM THE ENGINEER IN WRITING OF ANY DEVIATION IN THE SHOP DRAWINGS FROM THE REQUIREMENTS OF THE CONTRACT DRAWINGS. DIMENSIONS AND QUANTITIES ARE THE CONTRACTOR'S RESPONSIBILITY AND WILL NOT BE REVIEWED.

### STRUCTURAL CONCRETE

ALL CONCRETE CONSTRUCTION MUST CONFORM TO ACI 301, STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE, AS MODIFIED BY IBC SECTION 1905 AND LOCAL ADOPTED AMENDMENTS.

- ALL CAST-IN-PLACE CONCRETE:
1. EXPOSURE F2, S0, W1, C1 (ACI 318-14, 19.3.1.1)
  2. MINIMUM 28-DAY COMPRESSIVE STRENGTH = 4,500 PSI
  3. MAXIMUM AGGREGATE SIZE = 3/4"
  4. MAXIMUM WATER-CEMENT RATIO = 0.45
  5. MAXIMUM CHLORIDE ION CONTENT = 1.00%
  6. TARGET AIR CONTENT = 6% (+/-1%)

CONCRETE MUST BE PROPORTIONED TO ACHIEVE A WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER.

APPLICABLE ASTM STANDARDS:  
PORTLAND CEMENT = ASTM C150  
AGGREGATE = ASTM C33, NORMAL WEIGHT  
WATER = ASTM C1602  
WATER REDUCING ADMIXTURE = ASTM C494, TYPE A

CONCRETE PLACED DURING COLD WEATHER MUST CONFORM TO ACI 306. ALL COLD WEATHER CONCRETE AND CONCRETE EXPOSED TO WEATHER MUST CONTAIN AIR ENTRAINMENT PER ACI 318-14 TABLE 19.3.3.1.

THE FOLLOWING MINIMUM CONCRETE COVER MUST BE PROVIDED FOR REINFORCEMENT FOR CAST-IN-PLACE CONCRETE:

- |  |              |
|--|--------------|
| A. CONCRETE CAST AGAINST EARTH                         | 3-INCHES     |
| B. CONCRETE EXPOSED TO EARTH OR WEATHER #5 AND SMALLER | 1 1/2-INCHES |
| C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER            | 3/4-INCH     |

### GENERAL

THE CONTRACTOR MUST VERIFY AND COORDINATE ALL DIMENSIONS AMONG THE DRAWINGS BEFORE STARTING ANY WORK OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, REFERENCE STANDARDS, SITE CONDITIONS OR GOVERNING CODE, THE MORE STRINGENT REQUIREMENTS MUST GOVERN. CONTRACTOR MUST NOTIFY THE ENGINEER OF DISCREPANCIES AND OBTAIN DIRECTION PRIOR TO PROCEEDING. NOTES ON INDIVIDUAL STRUCTURAL DRAWINGS MUST TAKE PRIORITY OVER GENERAL STRUCTURAL NOTES. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED AS TYP ON THE PLANS BUT MUST APPLY AS SHOWN OR DESCRIBED IN THE DETAILS.

ALL CONSTRUCTION MUST COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE MUNICIPALITY OF ANCHORAGE (MOA).

SAFETY - THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL FEDERAL, STATE AND LOCAL SAFETY STANDARDS. THE CONTRACTOR IS IN CHARGE OF ALL SAFETY MATTERS ON AND AROUND THE JOB SITE.

### STRUCTURAL DESIGN DATA

STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2018 IBC AND 2018 IEBC AS AMENDED AND ADOPTED BY THE MUNICIPALITY OF ANCHORAGE. RISK CATEGORY IS II IN ACCORDANCE WITH IBC SECTION 1604.5. WORK UNDER THE IEBC IS CONSIDERED A LEVEL I ALTERATION OR REPAIR. NO WORK WILL INCREASE THE STRESS DUE TO GRAVITY OR LATERAL LOADS TO ANY EXISTING MEMBER BY MORE THAN 10%.

STRUCTURAL DESIGN OF VOLUNTARY SEISMIC UPGRADES (SILL ANCHORAGE AT EXISTING INTERIOR WOOD SHEAR WALLS) FOLLOWS SECTIONS OF ASCE 41-17.

REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS, SLOPES, DEPRESSIONS, NON-BEARING WALLS, FIRE-PROOFING, FASCIA, CURBS, DRAINS, RAILINGS, WATERPROOFING, FINISHES, ETC.

THE STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING OPERATIONAL LOADS ON THE COMPLETED STRUCTURES. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING AND BRACING DURING CONSTRUCTION.

MAIN BUILDING:	
WIND:	BASIC WIND SPEED (3-SECOND GUST, V <sub>ult</sub> )=130 MPH, EXPOSURE B, INTERNAL PRESSURE GC <sub>pi</sub> =±0.18 (FULLY ENCLOSED)
SNOW LOADS:	GROUND SNOW (Pg) = 50 PSF, Is=1.0, Ct=1.0, Ce=1.0 ROOF SNOW Pf = 40 PSF SLOPED
WEST CANOPY:	
LIVE LOADS:	WEST ENTRANCE RAMP = 100 PSF
WIND:	BASIC WIND SPEED (3-SECOND GUST, V <sub>ult</sub> )=130 MPH, UPLIFT PER ASCE 7-16, SECTION 30.11 ATTACHED CANOPY WIND PRESSURE
SNOW LOADS:	GROUND SNOW (Pg) = 50 PSF, Is=1.0, Ct=1.2, Ce=1.0 ROOF SNOW Pf = 42 PSF FLAT + DRIFT
SEISMIC LOADS:	SITE CLASS D DEFAULT, SEISMIC DESIGN CATEGORY D, Ss=1.5, S1=0.676, Sds=1.2, Sd1=0.766, Ie=1.0 R=1.25 (STEEL ORDINARY CANTILEVER COLUMN), Ω=1.25, Cd=1.25, ρ=1.3, Cs=0.96, BASE SHEAR=10.3 KIPS
LATERAL ANALYSIS IS LINEAR STATIC. LATERAL FORCES ARE CARRIED BY SEMI-RIGID ROOF DIAPHRAGMS TO THE STEEL PILES. MOMENTS, SHEARS, AND ROTATIONAL FORCES ARE DELIVERED TO THE FOUNDATION BY THE STEEL PILES IN PROPORTION TO THEIR TO RESIST LATERAL DEFORMATION.	
NORTH CANOPY:	
WIND:	BASIC WIND SPEED (3-SECOND GUST, V <sub>ult</sub> )=130 MPH, UPLIFT PER ASCE 7-16, SECTION 30.11 ATTACHED CANOPY WIND PRESSURE
SNOW LOADS:	GROUND SNOW (Pg) = 50 PSF, Is=1.0, Ct=1.2, Ce=1.0 ROOF SNOW Ps = 42 PSF SLOPED + DRIFT
SEISMIC LOADS:	SITE CLASS D DEFAULT, SEISMIC DESIGN CATEGORY D, Ss=1.5, S1=0.676, Sds=1.2, Sd1=0.766, Ie=1.0 R=2.5 (STEEL SPECIAL CANTILEVER COLUMN), Ω=1.25, Cd=2.5, ρ=1.3, Cs=0.96, BASE SHEAR= 28.8 KIPS
LATERAL ANALYSIS IS DYNAMIC SCALED TO 100% OF THE ELF. LATERAL FORCES ARE CARRIED BY SEMI-RIGID ROOF DIAPHRAGMS TO THE STEEL PILES. MOMENTS, SHEARS, AND ROTATIONAL FORCES ARE DELIVERED TO THE FOUNDATION BY THE STEEL PILES IN PROPORTION TO THEIR TO RESIST LATERAL DEFORMATION.	

### FOUNDATIONS

FOUNDATIONS ARE DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 4000 PSF UNDER SUSTAINED LOADING.

FOUNDATION SOILS MUST BE PREPARED IN ACCORDANCE WITH THE IBC AND THE PROJECT GEOTECHNICAL INVESTIGATION REPORT "GEOTECHNICAL CONSIDERATIONS, EXTERIOR CANOPY STRUCTURES, ANCHORAGE SCHOOL DISTRICT WAREHOUSE, 4919 VAN BUREN DRIVE, ANCHORAGE, ALASKA", DATED DECEMBER 12, 2023 BY WSP.

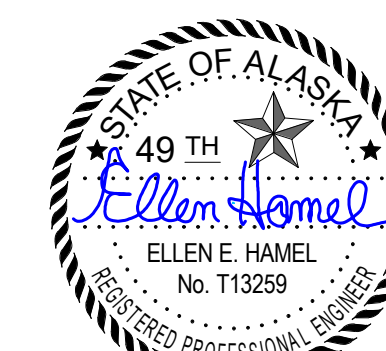
FREE-STANDING RAMP FOOTINGS MUST BE FOUNDED AT LEAST 120-INCHES BELOW LOWEST ADJACENT EXTERIOR FINISHED GRADE. DEPTH OF ATTACHED FOOTINGS AT NORTH CANOPY TO MATCH EXISTING FOOTING DEPTH. FOOTING DEPTHS AND ELEVATIONS SHOWN ARE MINIMUM AND FOR GUIDANCE ONLY; CONTRACTOR MUST ESTABLISH ACTUAL ELEVATIONS IN FIELD.

ALL ORGANIC, FROZEN, OR OTHER UNSUITABLE MATERIALS MUST BE REMOVED FROM SUB-GRADE AND REPLACED WITH COMPACTED GRANULAR NON-FROST SUSCEPTIBLE (NFS) FILL. ALL FOOTINGS MUST BE FOUNDED UPON UNDISTURBED, NATURAL SUB-GRADE OR COMPACTED NFS FILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 4,000 PSF.

SUB-GRADES BENEATH FOOTINGS AND SLABS MUST BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS MEASURED BY ASTM D1557. BACKFILL AROUND AND ABOVE ALL FOUNDATION ELEMENTS MUST BE COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY.

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BDS, Inc. Entity #25796D

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ASD PURCHASING  
WAREHOUSE ROOF  
REPLACEMENT

4919 VAN BUREN ST

BDS Project No.: 023003  
Client Project No.:

BID DOCUMENTS  
12/18/23

GENERAL  
NOTES  
**S0.02**



**NOTIFICATION OF POTENTIAL HAZARDS:**

Asbestos, lead, and other hazardous materials are present in the building and may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on Architectural, Structural, Mechanical, and Electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. This notification is provided in accordance with EPA and OSHA requirements.

SPECIAL INSPECTION & TESTING SCHEDULE				
ITEM	C.I.	P.I.	REFERENCE STANDARD	REMARKS
PREFABRICATED ITEMS	X	X	IBC 1704.2.5	REQUIRED FOR STRUCTURAL, LOAD-BEARING, OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES UNLESS OTHERWISE APPROVED BY BUILDING OFFICIAL
<b>SOILS</b>			IBC 1705.6, TABLE 1705.6	
VERIFY: - MATERIAL BELOW FOUNDATIONS ARE ADEQUATE FOR BEARING CAPACITY - EXCAVATION DEPTH AND PROPER MATERIAL REACHED BY DEPTH - PRIOR TO COMPACTED FILL, OBSERVE SUBGRADE AND SITE PREPERATION		X		PRIOR TO REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL INSPECT AND APPROVE THE FOUNDATION EXCAVATIONS
<b>DRIVEN STEEL PILE FOUNDATIONS:</b>			PROJECT GEOTECHNICAL REPORT; MOA POLICIES R.04, R.05, R.11 OR R.12 FOR MINI-PILES; IBC 1705.7, TABLE 1705.7	FOR STEEL ELEMENTS, PERFORM ADDITIONAL INSPECTIONS PER STEEL SPECIAL INSPECTION TABLE
PILE MATERIAL, SIZES AND LENGTHS	X		IBC 1810.3.5.3	
TEST PILE CAPACITY	T		IBC 1810.3.3.1.2	
DRIVING OPERATIONS	D			
LOCATION & PLUMBNESS OF EACH PILE	T			
<b>POST-INSTALLED ANCHORS:</b> VERIFY CERTIFICATION PRIOR TO INSTALLING HORIZONTAL OR INCLINED ADHESIVE ANCHORS	X (SEE NOTE)	X	ACI 318 17.8, 26.7.1(i); ICC-ES REPORT	PER MANUFACTURER REQUIREMENTS, INCLUDES THE DRILLING & CLEANING OUT OF THE HOLES & THE INSTALLATION OF THE ANCHORS. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY SHALL BE PERFORMED BY ACI/CRSI CERTIFIED PERSONNEL ONLY AND REQUIRE CONTINUOUS INSPECTION.
<b>SCHEDULE NOTES:</b>				
1. ITEMS MARKED WITH AN "X" REQUIRE INSPECTION BY A SPECIAL INSPECTOR, ITEMS INDICATED WITH A "T" REQUIRE THE SPECIAL INSPECTOR TO OBSERVE QUALITY CONTROL TESTING BY THE CONTRACTOR.				
2. C.I. = CONTINUOUS SPECIAL INSPECTION DURING PROGRESS OF WORK.				
3. P.I. = PERIODIC SPECIAL INSPECTION DURING PROGRESS OF WORK.				
4. NOT USED.				
5. NOT USED.				
6. NOT USED.				
7. NOT USED.				
8. NOT USED.				

**STATEMENT OF SPECIAL INSPECTIONS**

THE FOLLOWING STRUCTURAL SYSTEMS ARE PART OF THE DESIGNATED LATERAL FORCE RESISTING SYSTEMS IN THE BUILDING AND HENCE ARE SUBJECT TO THE REQUIREMENTS OF THIS STATEMENT OF SPECIAL INSPECTIONS AND THE STRUCTURAL SPECIAL INSPECTION AND TESTING SCHEDULE IN ACCORDANCE WITH IBC SECTION 1704.3.

- STEEL PILES
- METAL DECK DIAPHRAGMS
- WOOD SHEAR WALLS

**SPECIAL INSPECTIONS AND TESTING**

THE OWNER SHALL ENGAGE A SPECIAL INSPECTOR PER CHAPTER 17 OF THE IBC. SPECIAL INSPECTION AND TESTING OF THE DESIGNATED SEISMIC SYSTEMS AND OTHER BUILDING STRUCTURE COMPONENTS SHALL BE AS OUTLINED IN THE SPECIAL INSPECTIONS AND TESTING SCHEDULE. WHERE REQUIREMENTS OVERLAP, THE MORE STRINGENT IS TO BE USED.

SPECIAL INSPECTION IS NOT REQUIRED FOR COMPONENTS FABRICATED IN A SHOP APPROVED BY THE MUNICIPALITY OF ANCHORAGE TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. SPECIAL INSPECTION ON STEEL ELEMENTS THAT ARE PART OF THE LATERAL FORCE RESISTING SYSTEM MARKED WITH AN "O" SHALL BE OBSERVED ON A RANDOM DAILY BASIS PER AISC 341-16 J5.

**DISTRIBUTION OF REPORTS**

COPIES OF THE SPECIAL INSPECTION AND TEST REPORTS SHALL BE DISTRIBUTED TO THE MUNICIPALITY OF ANCHORAGE BUILDING SAFETY DIVISION, THE GENERAL CONTRACTOR, THE ENGINEER OF RECORD, AND THE ARCHITECT OF RECORD. REPORTS SHALL BE COMPLETED DAILY AND DISTRIBUTED ON A WEEKLY BASIS AND SHALL BE DISTRIBUTED BY THE MONDAY FOLLOWING THE WEEK IN WHICH THE INSPECTION OR TEST WAS COMPLETED. A COPY OF ALL SPECIAL INSPECTION REPORTS, DEFICIENCIES, AND CORRECTIVE ACTIONS SHALL BE MAINTAINED AT THE JOB SITE.

**STRUCTURAL OBSERVATIONS**

STRUCTURAL OBSERVATIONS ARE REQUIRED PER IBC 1704.6. SITE VISITS BY THE ENGINEER OF RECORD OR A REGISTERED ENGINEER APPROVED BY THE ENGINEER OF RECORD SHALL BE MADE ON A PERIODIC BASIS AT CRITICAL STAGES OF CONSTRUCTION TO MAKE VISUAL OBSERVATIONS OF THE CONSTRUCTION FOR GENERAL CONFORMANCE TO THE CONSTRUCTION DOCUMENTS. COPIES OF THE OBSERVATION REPORTS SHALL BE DISTRIBUTED WITHIN 2 WORKING DAYS OF THE SITE VISIT TO THE GENERAL CONTRACTOR, THE ARCHITECT OF RECORD, AND TO THE SPECIAL INSPECTOR INVOLVED IN ANY ISSUES RAISED IN THE REPORT.

**CONTRACTOR STATEMENT OF RESPONSIBILITY**

CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER AND THE MOA, IN ACCORDANCE WITH IBC 1704.4. THE STATEMENT SHALL ACKNOWLEDGE AWARENESS OF THE SPECIAL REQUIREMENTS OF THE QUALITY ASSURANCE PLAN; ACKNOWLEDGE THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS; IDENTIFY PROCEDURES FOR EXERCISING CONTROL, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS; AND IDENTIFY PERSONS THAT WILL EXERCISE CONTROL AND THEIR QUALIFICATIONS.



Anchorage  
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ASD PURCHASING  
WAREHOUSE ROOF  
REPLACEMENT

4919 VAN BUREN ST

BDS Project No.: 023003  
Client Project No.:

BID DOCUMENTS  
12/18/23

SPECIAL  
INSPECTION  
**S0.03**



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 Asbestos, lead, and other hazardous materials are present in the building and may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on Architectural, Structural, Mechanical, and Electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. This notification is provided in accordance with EPA and OSHA requirements.

ITEM	QC (NOTE 12)		QA (NOTE 13)		STEEL SPECIAL INSPECTION & TESTING SCHEDULE	
	TASK	DOC	TASK	DOC	REFERENCE STANDARD	REMARKS
<b>STEEL:</b>					AISC: 360-16, 341-16, 348-14, 303-16, 358-16; 2018 IBC: 1705.2	
VISUAL INSPECTION PRIOR TO WELDING:					AISC: 341-16 TABLE J6.1; 360-16 TABLE N5.4-1; AWS D1.1	
WELDING PROCEDURE SPECIFICATIONS (WPS's) AVAILABLE	P	-	P	-		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	-	P	-		
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	-	O	-		
WELDER IDENTIFICATION SYSTEM	O	-	O	-		
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	P/O	-	O	-		JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), AND BACKING TYPE AND FIT (IF APPLICABLE) - NOTE 15
CONFIGURATION AND FINISH OF ACCESS HOLES	O	-	O	-		
FIT-UP OF FILLET WELDS	P/O	-	O	-		DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION) - NOTE 15
CHECK WELDING EQUIPMENT	O	-	-	-		
VISUAL INSPECTION DURING WELDING:					AISC: 341-16 TABLE J6.2, 360-16 TABLE N5.4-2; AWS D1.1	
WPS FOLLOWED	O	-	O	-		SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE / FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN/MAX), PROPER POSITION (F, V, H, OH), INTERMIX OF FILLER MATERIALS AVOIDED UNLESS APPROVED
USE OF QUALIFIED WELDERS	O	-	O	-		
CONTROL AND HANDLING OF WELDING CONSUMABLES	O	-	O	-		PACKAGING, EXPOSURE CONTROL
ENVIRONMENTAL CONDITIONS	O	-	O	-		WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE
WELDING TECHNIQUES	O	-	O	-		INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS
NO WELDING OVER CRACKED TACK WELDS	O	-	O	-		
VISUAL INSPECTION AFTER WELDING:					AISC: 341-16 TABLE J6.3, 360-16 TABLE N5.4-3	
WELDS CLEANED	O	-	O	-		
SIZE, LENGTH AND LOCATION OF WELDS	P	-	P	-		
WELDS MEET VISUAL ACCEPTANCE CRITERIA	P	D	P	D		CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES AND SIZE, UNDERCUT, POROSITY
ARC STRIKES	P	-	P	-		
PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED)	P	D	P	D		
BACKING REMOVED, WELD TABS REMOVED AND FINISHED, AND FILLED WELDS ADDED (IF REQUIRED)	P	D	P	D		
REPAIR ACTIVITIES	P	-	P	D		
ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	D	P	D		
NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS:						NDT IS REQUIRED ON ALL QUALIFYING WELDS REGARDLESS IF SHOP IS AISC APPROVED
K-AREA	P	-	T	D	AISC: 341-16 TABLE J6.3; AWS: D1.1; ASTM: E709-15 MAG PARTICLE, YOKE METHOD	WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3-INCHES OF WELD & MAG-PARTICLE TEST
COMPLETE JOINT PENETRATION GROOVE WELDS	-	-	T	D	AISC: 341-16 J6.2a; AWS: D1.1, ULTRASONIC, QUALIFIED PROCEDURES PER SECTION 6, PART F (INCLUDING PARAGRAPH K3 OF ANNEX K)	100 PERCENT OF WELDS IN MATERIAL GREATER THAN 5/16-INCH THICKNESS, NOTE 14
WELD TAB REMOVAL SITES	-	-	T	D	AISC: 341-16, J6.2f; AWS D1.1	MAG PARTICLE TEST
INSPECTION PRIOR TO BOLTING:					AISC: 341-16 TABLE J7.1; 360-16 TABLE N5.6-1	
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	-	P	-		
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	-	O	-		
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL	O	-	O	-		GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	-	O	-		
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	-	O	-		
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED FOR FASTENER ASSEMBLIES AND METHODS USED	P	D	O	D		
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	-	O	-		
INSPECTION DURING BOLTING:					AISC: 341-16 TABLE J7.2; 360-16 TABLE N5.6-2	
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	-	O	-		
JOINT BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	-	O	-		
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	-	O	-		
BOLTS ARE PRETENSIONED PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	-	O	-		FASTENERS PRETENSIONED IN ACCORDANCE WITH RCSC SPECIFICATION
INSPECTION AFTER BOLTING:					AISC: 341-16 TABLE J7.3; 360-16 TABLE N5.6-3	
DOCUMENT ACCEPTED AND REJECTED CONNECTIONS	P	D	P	D		
STEEL DECK					2018 IBC: 1705.2.2; SDI: 2017 QA/QC TABLES 1.1 THRU 1.8.	
IDENTIFICATION OF MATERIALS CONFORM TO ASTM STANDARDS SPECIFIED			O			
MANUFACTURER'S CERTIFIED TEST REPORTS			O			
PLACEMENT AND INSTALLATION OF STEEL DECK	P	-	P	-		
ROOF WELDS	P		P		AWS: D1.3	
ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	P	D	P	D		

SPECIAL INSPECTION REQUIREMENTS AT AISC APPROVED SHOPS ARE EXEMPTED, IBC 1704.2.5.1

**SCHEDULE NOTES:**

- ITEMS INDICATED WITH A "T" REQUIRE TESTING, WITH A "D" REQUIRE SPECIFIC DOCUMENTATION, WITH AN "O" SHALL BE OBSERVED ON A RANDOM BASIS, AND WITH A "P" SHALL BE PERFORMED ON EACH CONNECTION AS DESCRIBED IN AISC 360 N.5.4.
- QUALITY CONTROL (QC) IS PERFORMED BY THE CONTRACTOR PER AISC 360 N.5.1.
- QUALITY ASSURANCE (QA) IS PERFORMED BY THE SPECIAL INSPECTOR PER AISC 360 N.5.2.
- THE AMOUNT OF ULTRASONIC TESTING MAY BE REDUCED TO 25 PERCENT OF THE WELDS IF THE REQUIREMENTS OF AISC 341 J6.2g & AISC 360 N5.5e ARE MET. THE AMOUNT OF MAG-PARTICLE TESTING MAY BE REDUCED TO 10 PERCENT OF THE WELDS IF THE REQUIREMENTS OF AISC 341 J6.2h ARE MET. EXCEPTIONS: REDUCTION IS PROHIBITED AT WELDS IN K-AREAS, REPAIR SITES, BACKING REMOVAL SITES, ACCESS HOLES, AND DEMAND-CRITICAL WELDS.)
- THE "PERFORM" REQUIREMENT MAY BE REDUCED TO "OBSERVE" IF AFTER 10 WELDS, A GIVEN WELDER HAS DEMONSTRATED UNDERSTANDING OF THESE REQUIREMENTS. IF THE WELDER'S PERFORMANCE IS DISCONTINUED, IT SHALL BE RETURNED TO A "PERFORM" QUALITY CONTROL INSPECTION.
- WHERE A TASK IS STIPULATED TO BE PERFORMED BY BOTH QC AND QA, COORDINATION OF THE INSPECTION FUNCTION BETWEEN QC AND QA IS PERMITTED. WHEN QA RELIES UPON INSPECTIONS PERFORMED BY QC, THE APPROVAL OF THE EOR IS REQUIRED.



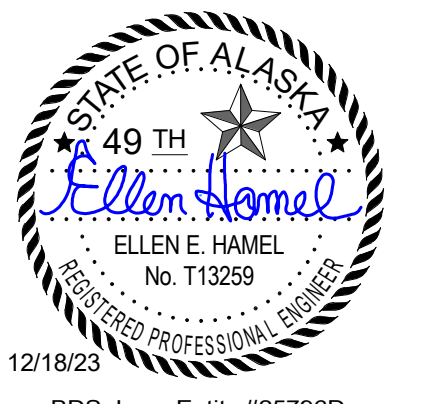
Anchorage School District

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No Description Date



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ASD PURCHASING WAREHOUSE ROOF REPLACEMENT

4919 VAN BUREN ST

BDS Project No.: 023003  
 Client Project No.:

BID DOCUMENTS  
 12/18/23

SPECIAL INSPECTION CONTD  
**S0.04**

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Anchorage School District

**REVISIONS**

No	Description	Date
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**COMPONENTS & CLADDING WIND LOADS**

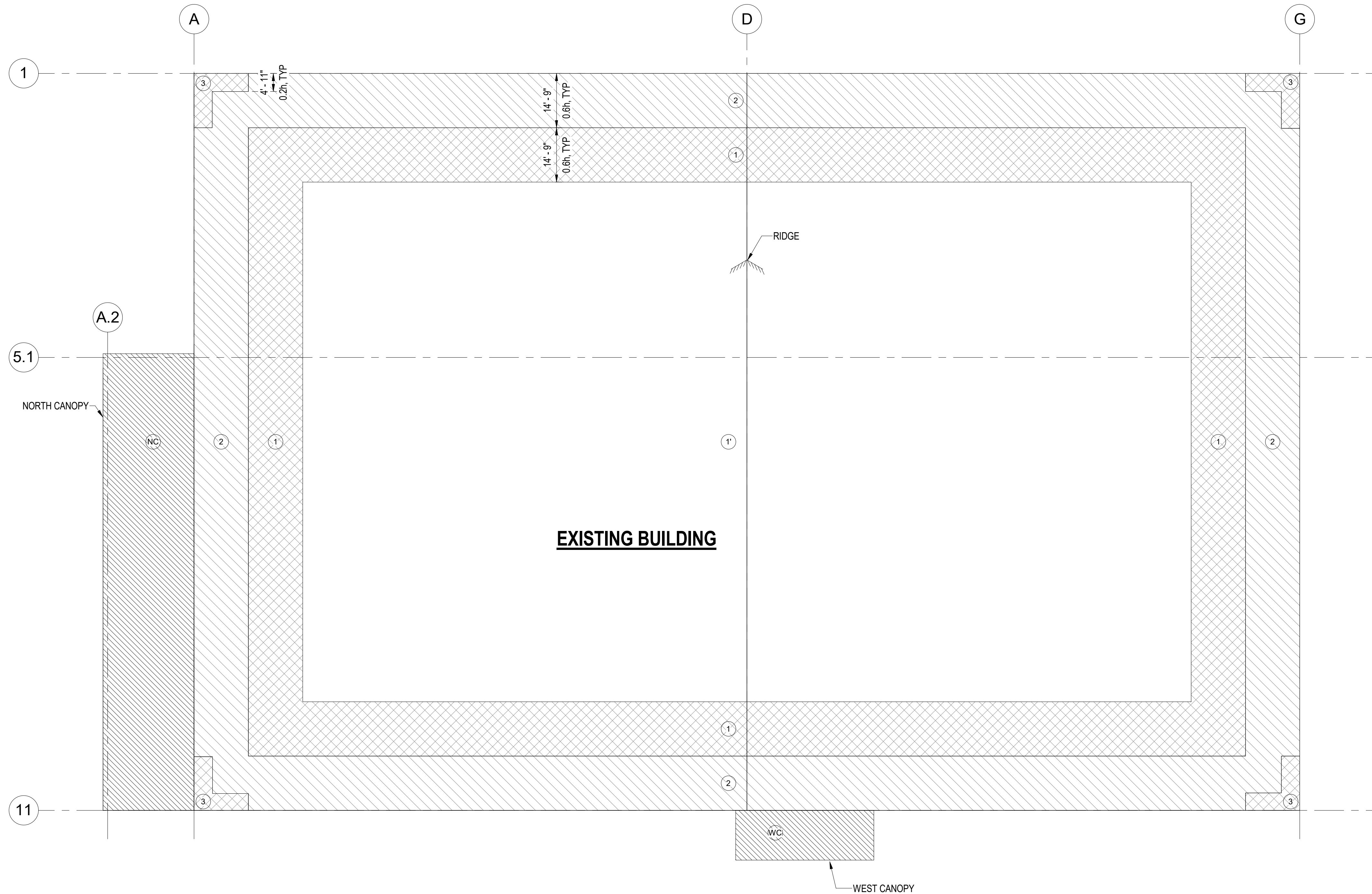
ZONE	EFFECTIVE WIND AREA = 10 SF
1 - MAIN ROOF	-46 PSF
1' - CENTRAL INT	-26 PSF
2 - EDGE ZONE	-60 PSF
3 - CORNER ZONE	-82 PSF
WC - WEST CANOPY	-23 PSF
NC - NORTH CANOPY	-24 PSF

**NOTES:**

1. THE WIND LOADS LISTED ABOVE ARE GROSS ULTIMATE AND ARE TO BE USED WITH LOAD COMBINATIONS IN ASCE 7-16.
2. THE HEIGHT OF THE BUILDING "h" IS 24'-6". REFERENCE THE COMPONENTS & CLADDING FIGURES IN ASCE 7-16.
3. FOR FM GLOBAL RATINGS SEE TABLE BELOW. RATINGS ARE BASED ON EXPOSURE CATEGORY PER GENERAL NOTES.

**FM GLOBAL MINIMUM WIND UPLIFT RATINGS**

ROOF	ZONE 1'	ZONE 1	ZONE 2	ZONE 3
WAREHOUSE ROOF	1-60	1-75	1-90	1-120
WEST CANOPY ROOF, WC = 1-105				
NORTH CANOPY ROOF, NC = 1-90				



**1 WIND UPLIFT MAP**  
 1/16" = 1'-0"



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 Checked by: DS

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 4919 VAN BUREN ST

BDS Project No.: 023003  
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**WIND UPLIFT MAP**  
**S0.05**



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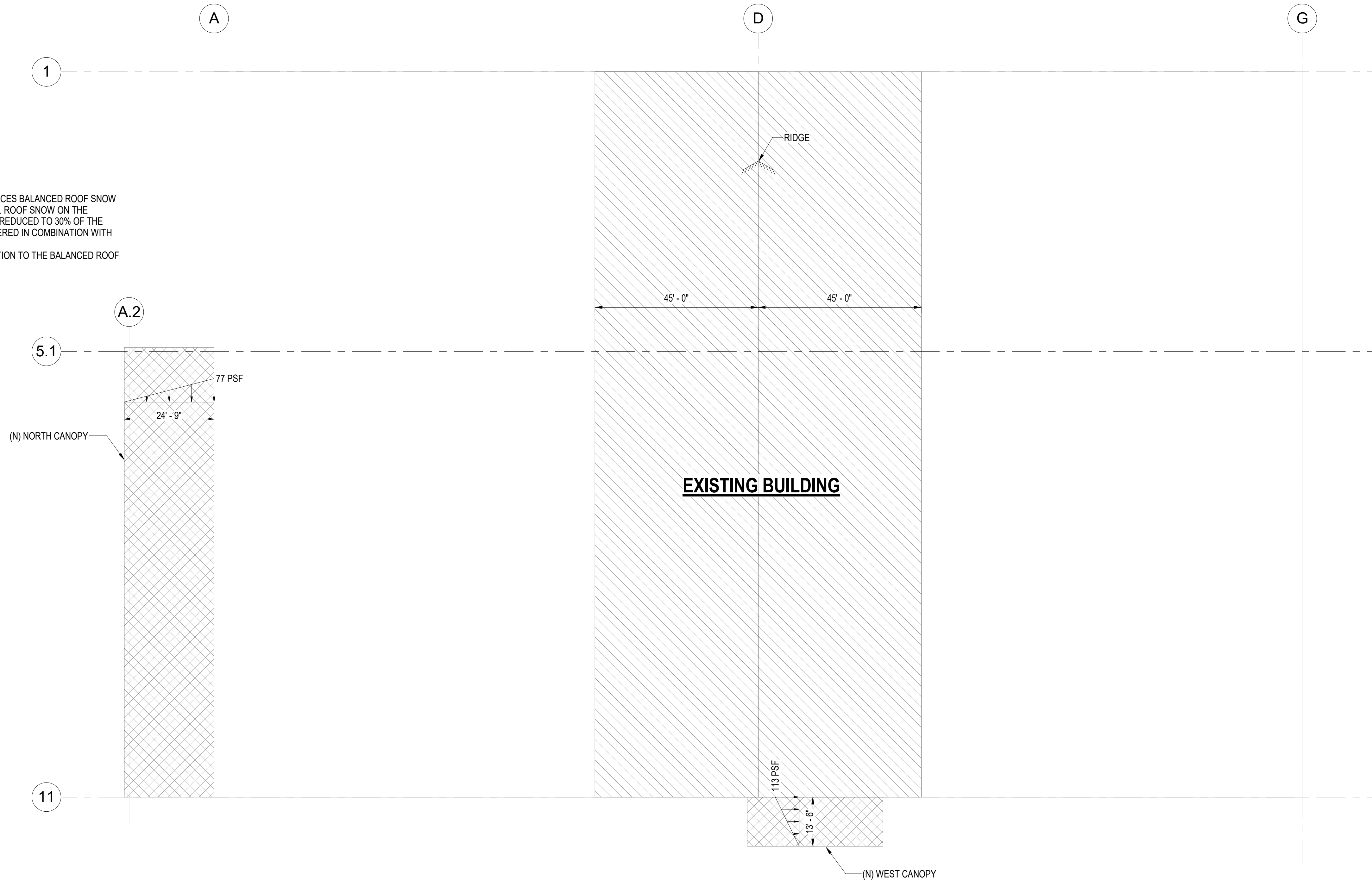
**SNOW LOAD LEGEND**

CANOPY SNOW DRIFT - LOAD VARIES

AREA OF UNBALANCED SNOW = 69 PSF; NOTE 1

**NOTES:**

- UNBALANCED SNOW LOAD REPLACES BALANCED ROOF SNOW LOAD OVER THE SPECIFIED AREA. ROOF SNOW ON THE OPPOSITE SIDE OF THE RIDGE IS REDUCED TO 30% OF THE BALANCED SNOW WHEN CONSIDERED IN COMBINATION WITH UNBALANCED LOAD CASES.
- DRIFTING SNOW LOAD IS IN ADDITION TO THE BALANCED ROOF SNOW LOAD.



**1 SNOW LOAD MAP**  
 1/16" = 1'-0"

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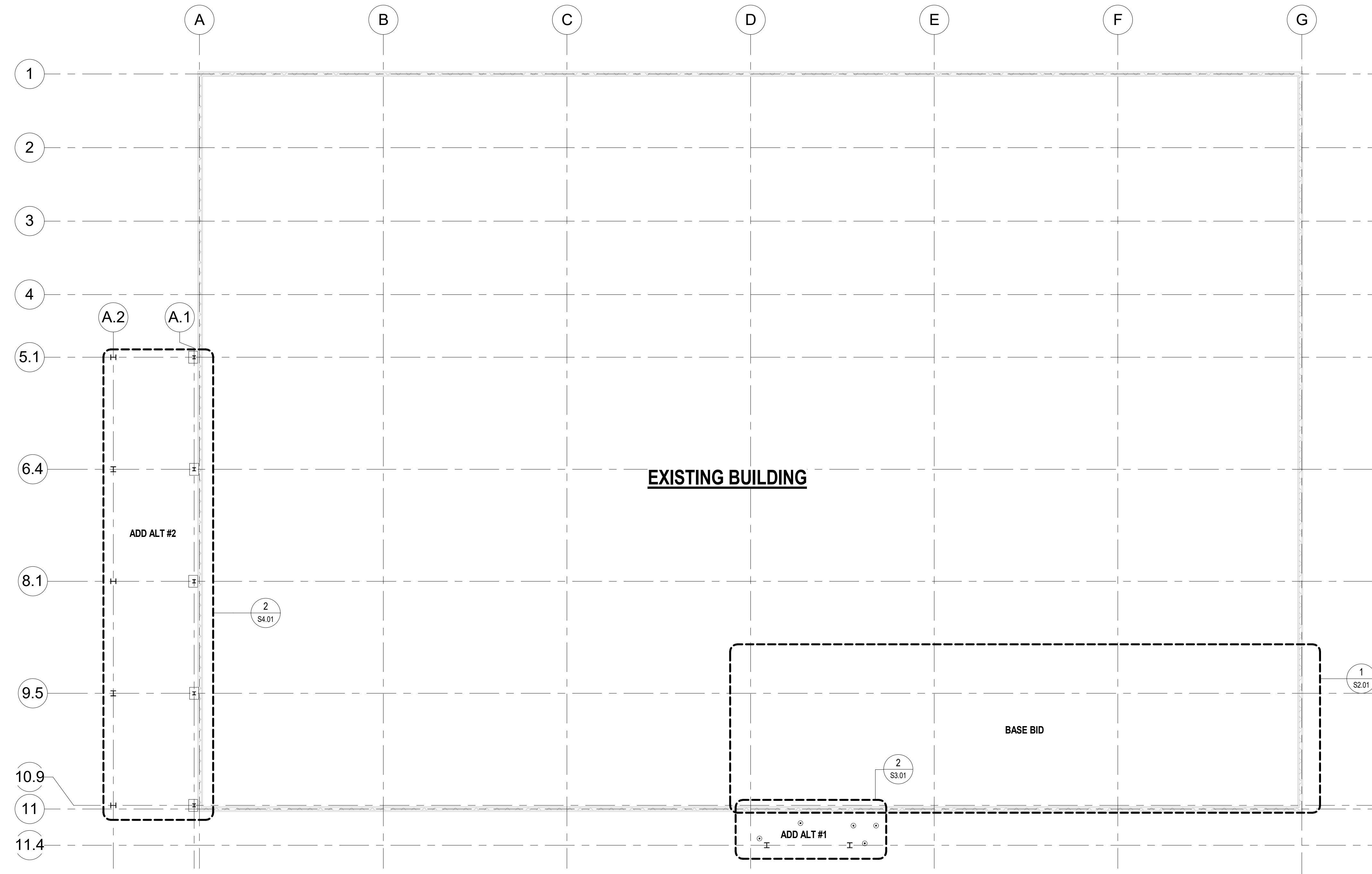
**SNOW LOAD MAP S0.06**

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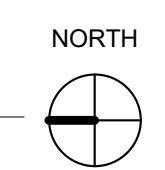


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1 OVERALL FOUNDATION PLAN  
1/16" = 1'-0"



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4919 VAN BUREN ST

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OVERALL  
FOUNDATION  
PLAN  
S1.01



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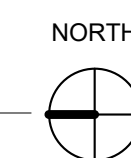


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No	Description	Date

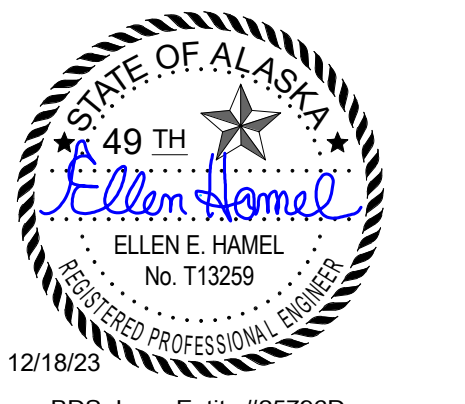


**1** OVERALL ROOF PLAN  
1/16" = 1'-0"



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**OVERALL ROOF  
PLAN  
S1.02**

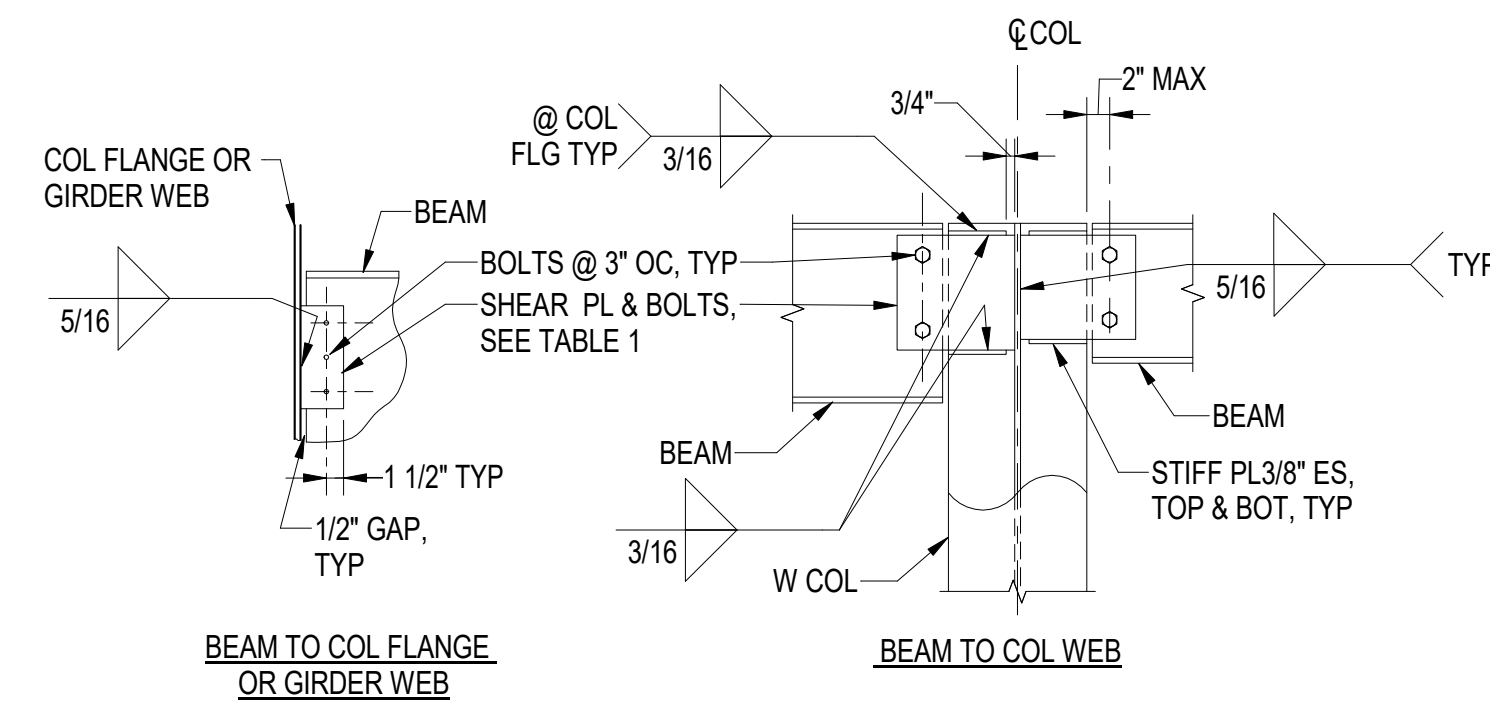
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BEAM SIZES	BOLTS REQ'D	SHEAR PL THICKNESS	BOLT SIZE & TYPE
W10	2	3/8"	3/4"Ø - A325
W16	4	3/8"	3/4"Ø - A325

## NOTES:

- FABRICATE SHEAR PLATES OR BEAMS WITH HORIZ SHORT SLOTTED HOLES.
- FIELD WELD w/ 5/16" FILLET ON 3 SIDES OF SHEAR TAB AS REQUIRED TO MAINTAIN PLAN DIMESIONS; COVER UNUSED BOLT HOLES w/ 1/4" x 2" SQ PLATES FIELD WELDED IN PLACE w/ 3/16" ALL AROUND FILLET.



1 TYP SIMPLE SHEAR CONNS  
S1.03 3/4" = 1'-0"



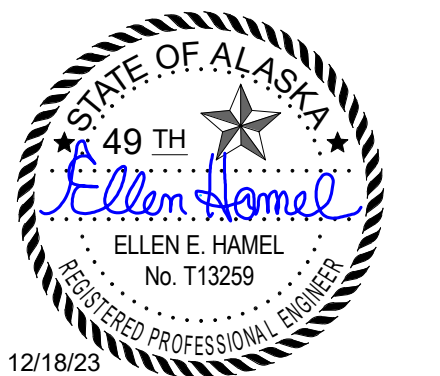
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TYPICAL  
STRUCTURAL  
DETAILS  
**S1.03**



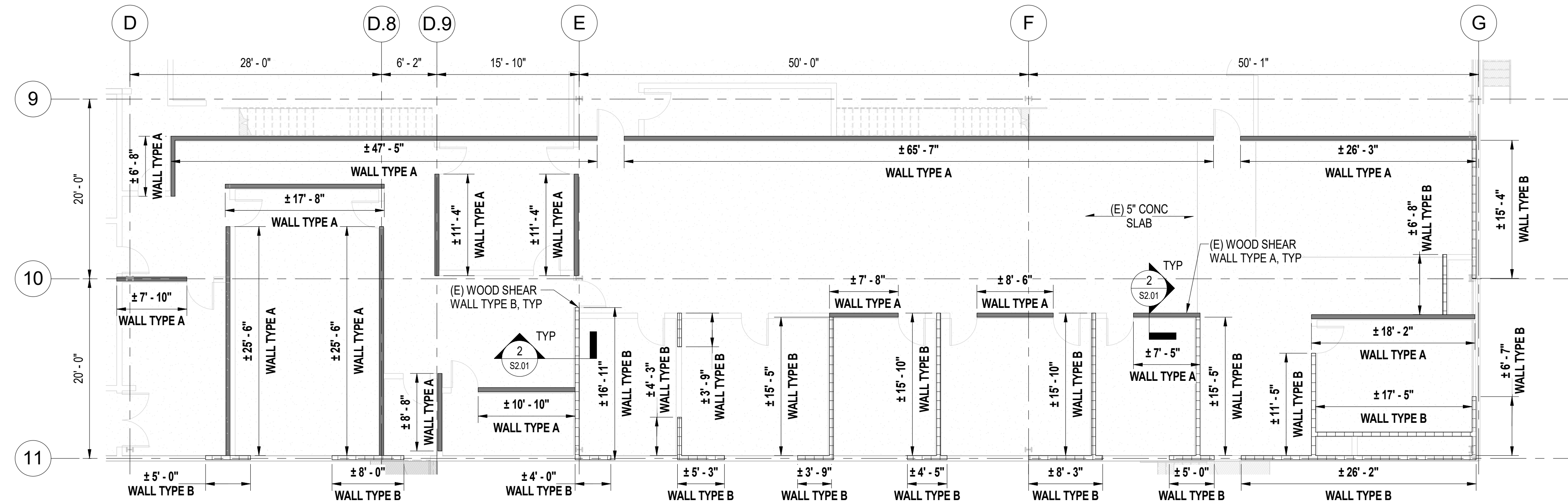
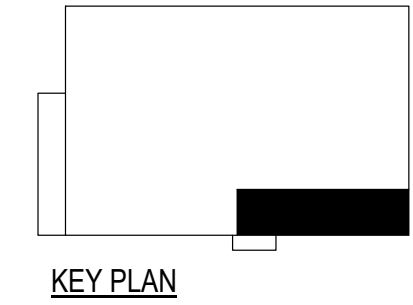
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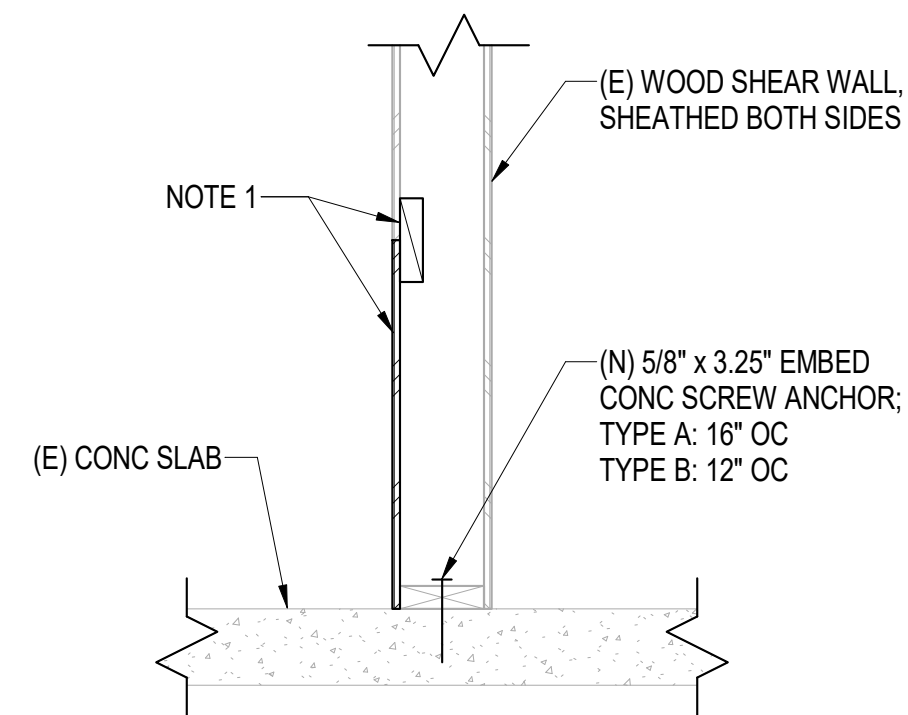
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No	Description	Date



- LEGEND**
- (E) WOOD SHEAR WALL TYPE A: 2x6 FRAMING @ 2'-0", 1/2" PLYWOOD EA SIDE, ALL EDGES BLOCKED
  - (E) WOOD SHEAR WALL TYPE B: 4x FRAMING @ 2'-0", 1/2" PLYWOOD EA SIDE, ALL EDGES BLOCKED

**1 LEVEL 1 PARTIAL PLAN**  
 S2.01 1/8" = 1'-0"

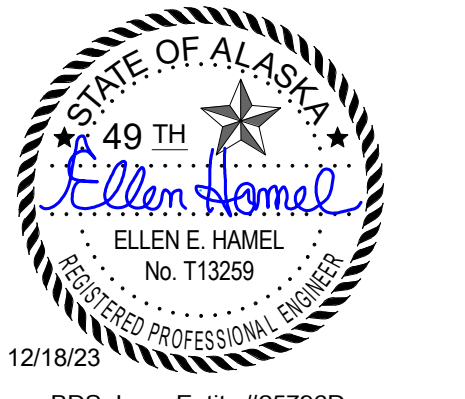


**NOTE:**  
 1. REMOVE PLYWOOD (SINGLE-SIDE) FOR INSTALLATION OF (N) ANCHORS. AFTER (N) ANCHORS ARE INSTALLED, REPLACE (E) PLYWOOD AND FASTENERS IN-KIND. ADD BLOCKING AT ALL EDGES OF (N) PLYWOOD. PAINT FINISH, COLOR TO MATCH EXISTING WALL.

**2 SECTION AT SILL ANCHORAGE UPGRADE**  
 S2.01 1" = 1'-0"

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**SILL ANCHORAGE DETAILS**  
**S2.01**

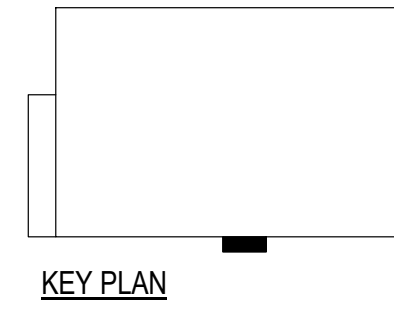
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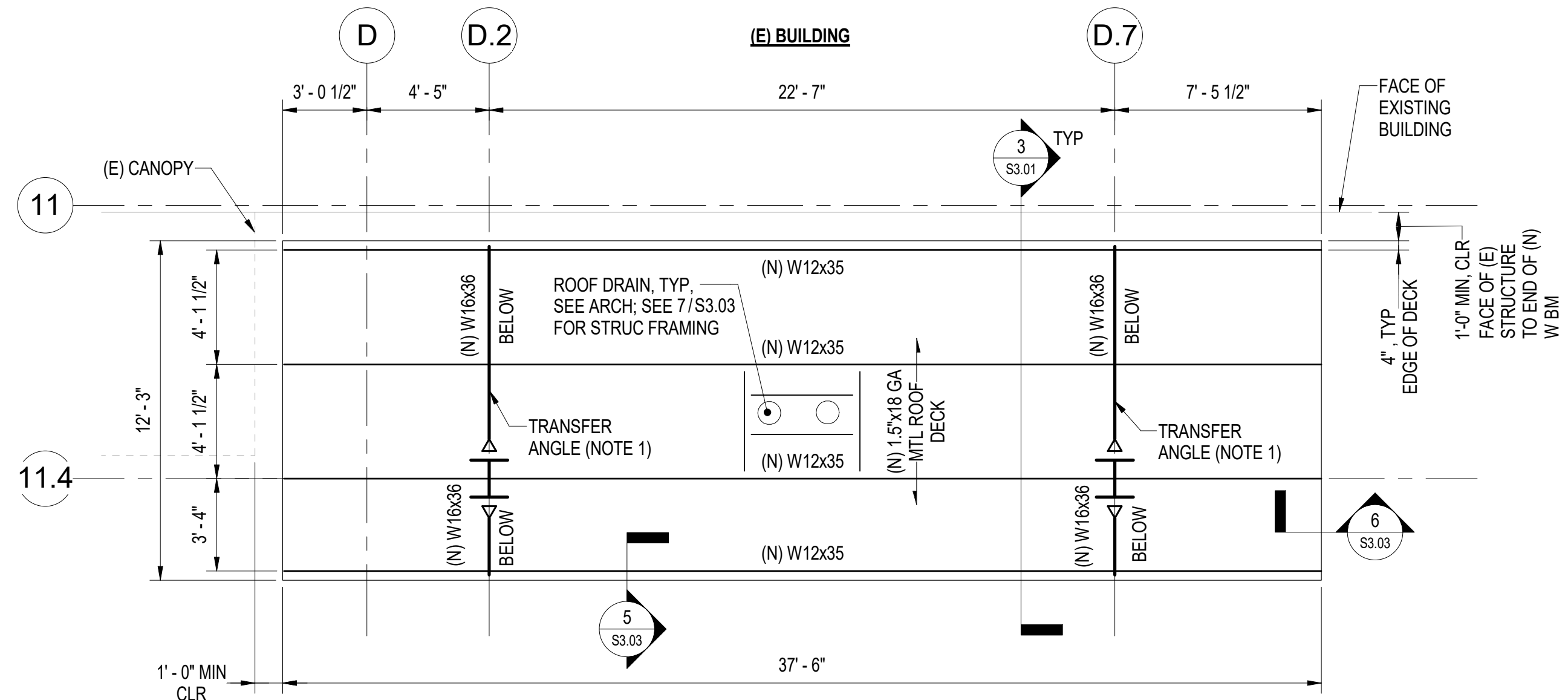
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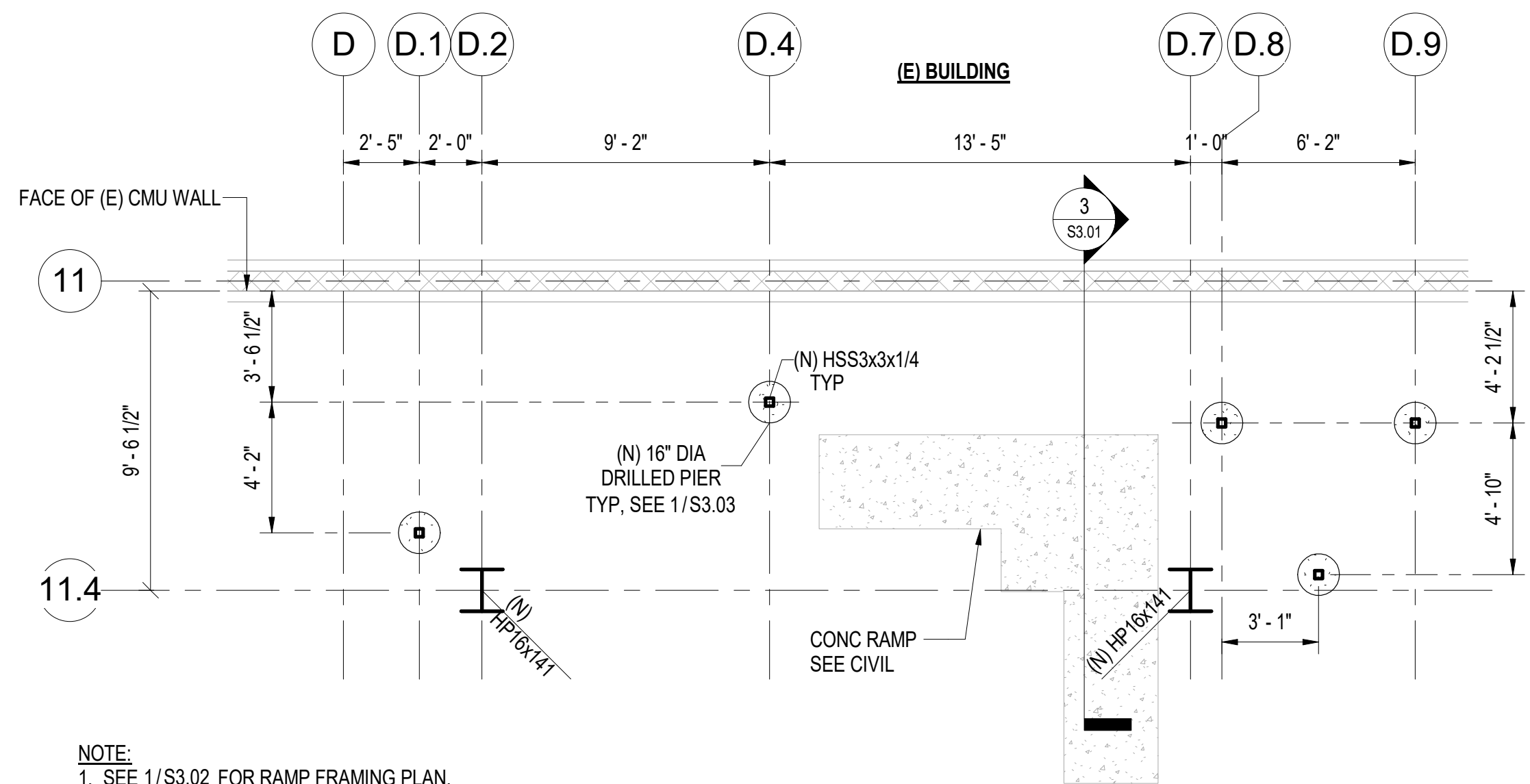


KEY PLAN



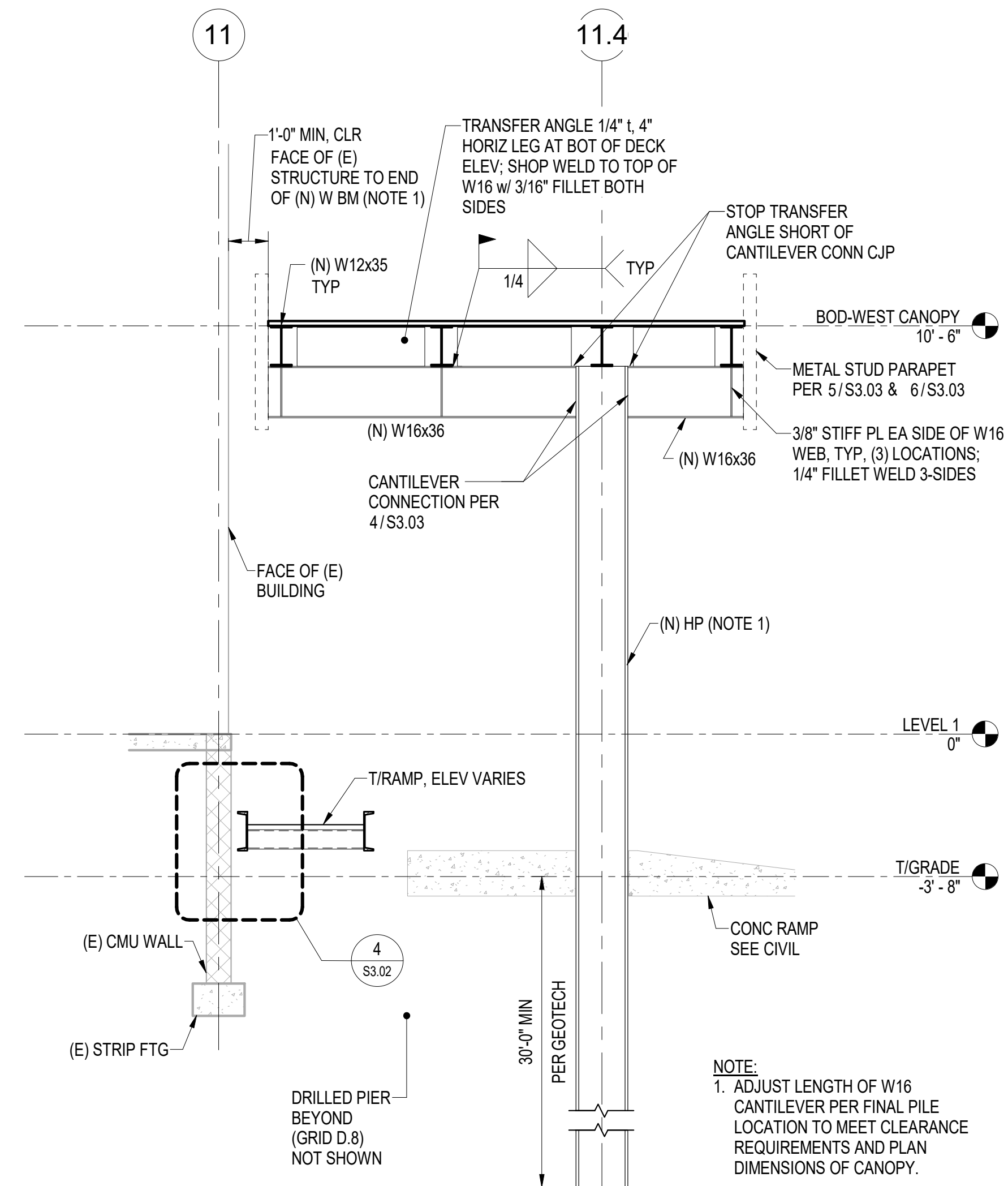
**NOTE:**  
 1. (N) TRANSFER ANGLE TYP ALONG GRIDS D.2 AND D.7,  
 (3) LOCATIONS PER GRID.

**1 WEST CANOPY ROOF PLAN - ADD ALTERNATE #1**  
 S3.01 1/4" = 1'-0"



**NOTE:**  
 1. SEE 1/S3.02 FOR RAMP FRAMING PLAN.

**2 WEST CANOPY FOUNDATION PLAN - ADD ALTERNATE #1**  
 S3.01 1/4" = 1'-0"

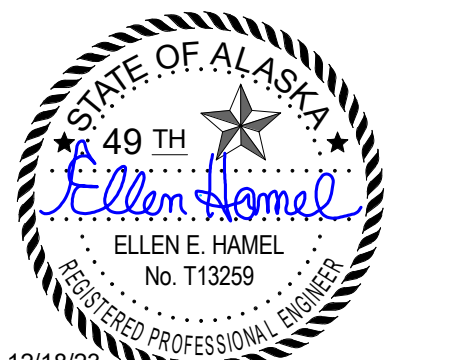


**NOTE:**  
 1. ADJUST LENGTH OF W16 CANTILEVER PER FINAL PILE LOCATION TO MEET CLEARANCE REQUIREMENTS AND PLAN DIMENSIONS OF CANOPY.

**3 SECTION AT WEST CANOPY - ADD ALTERNATE #1**  
 S3.01 3/8" = 1'-0"

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**WEST CANOPY PLANS AND SECTION S3.01**





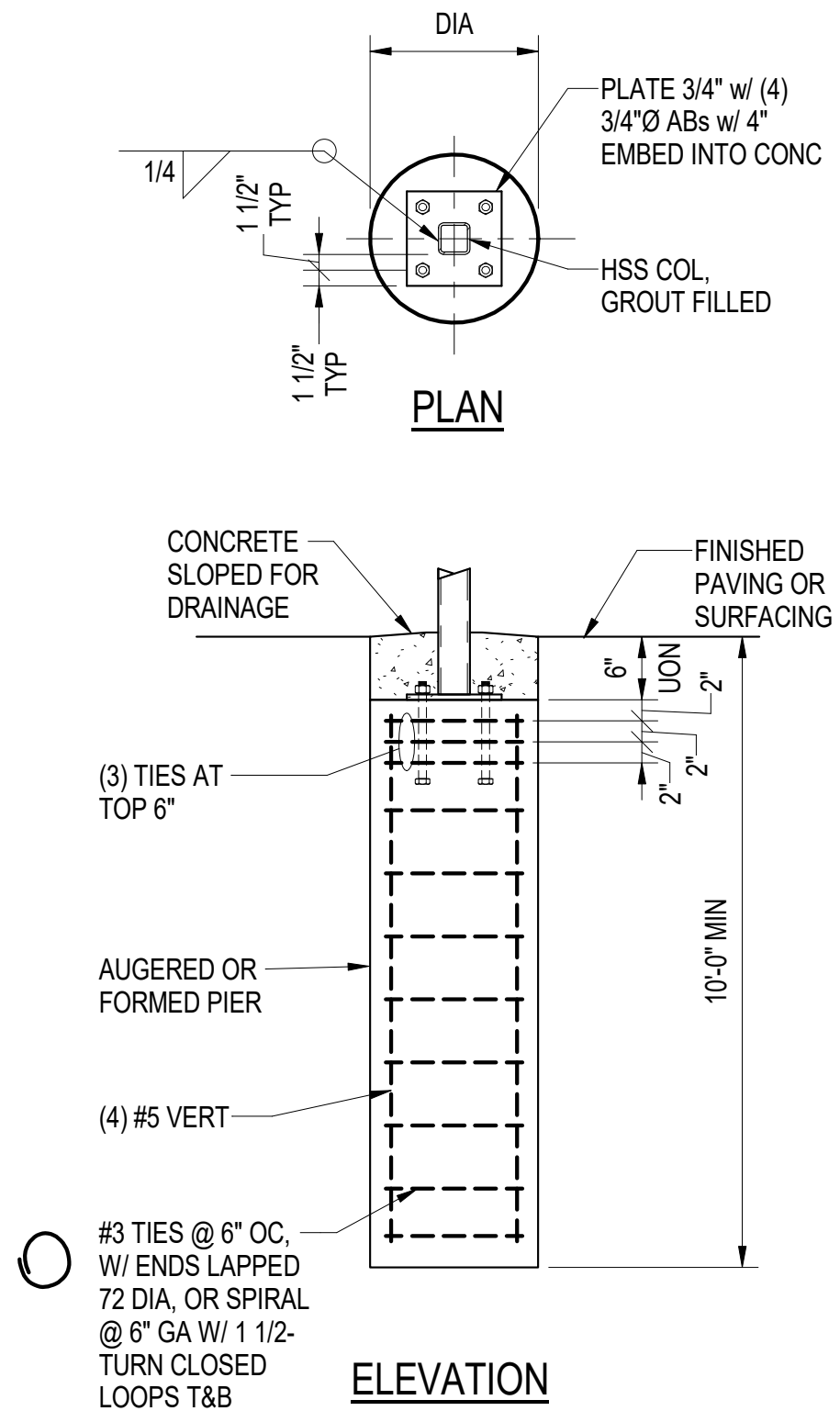
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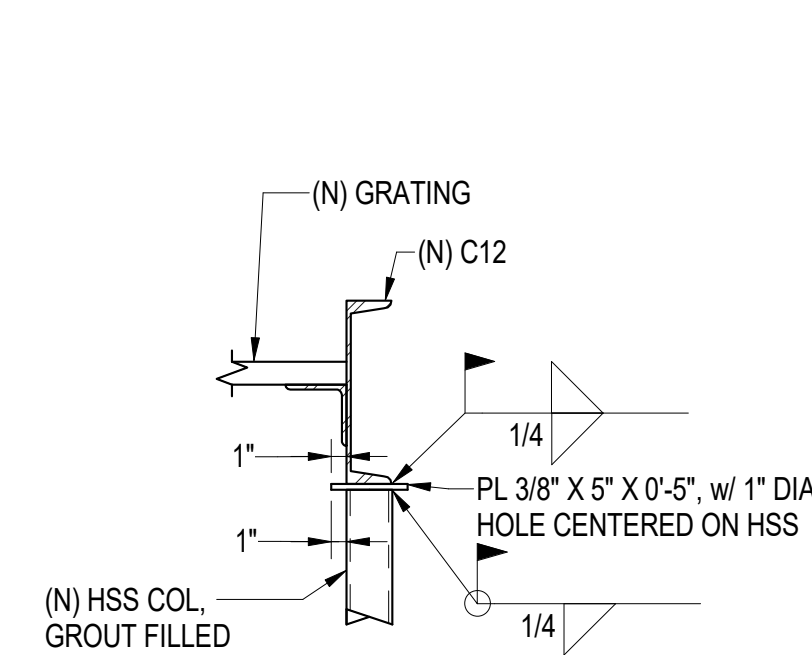
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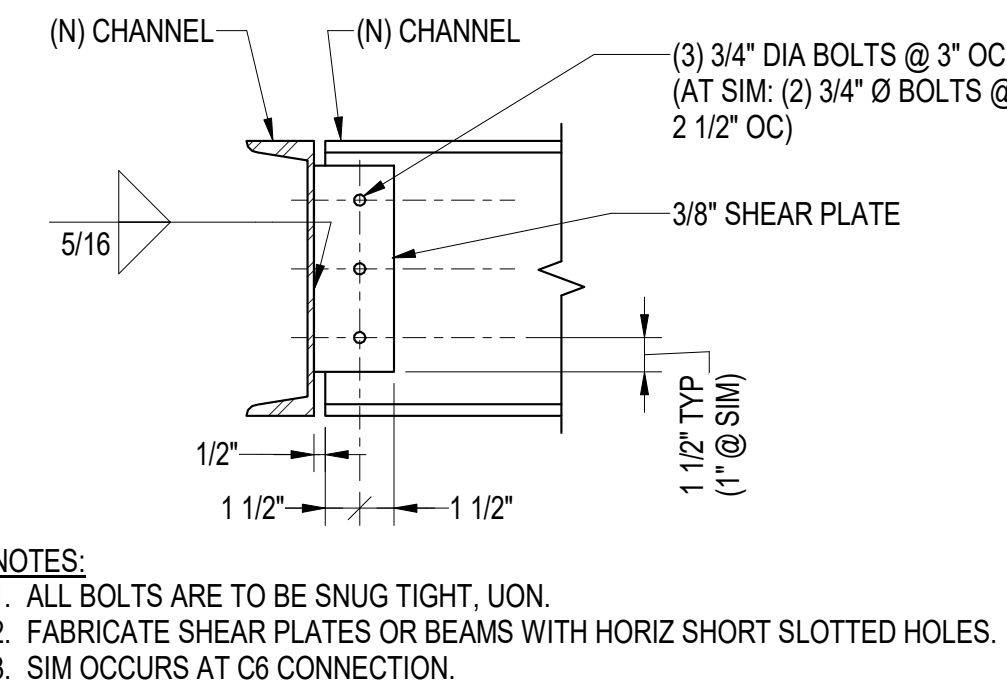
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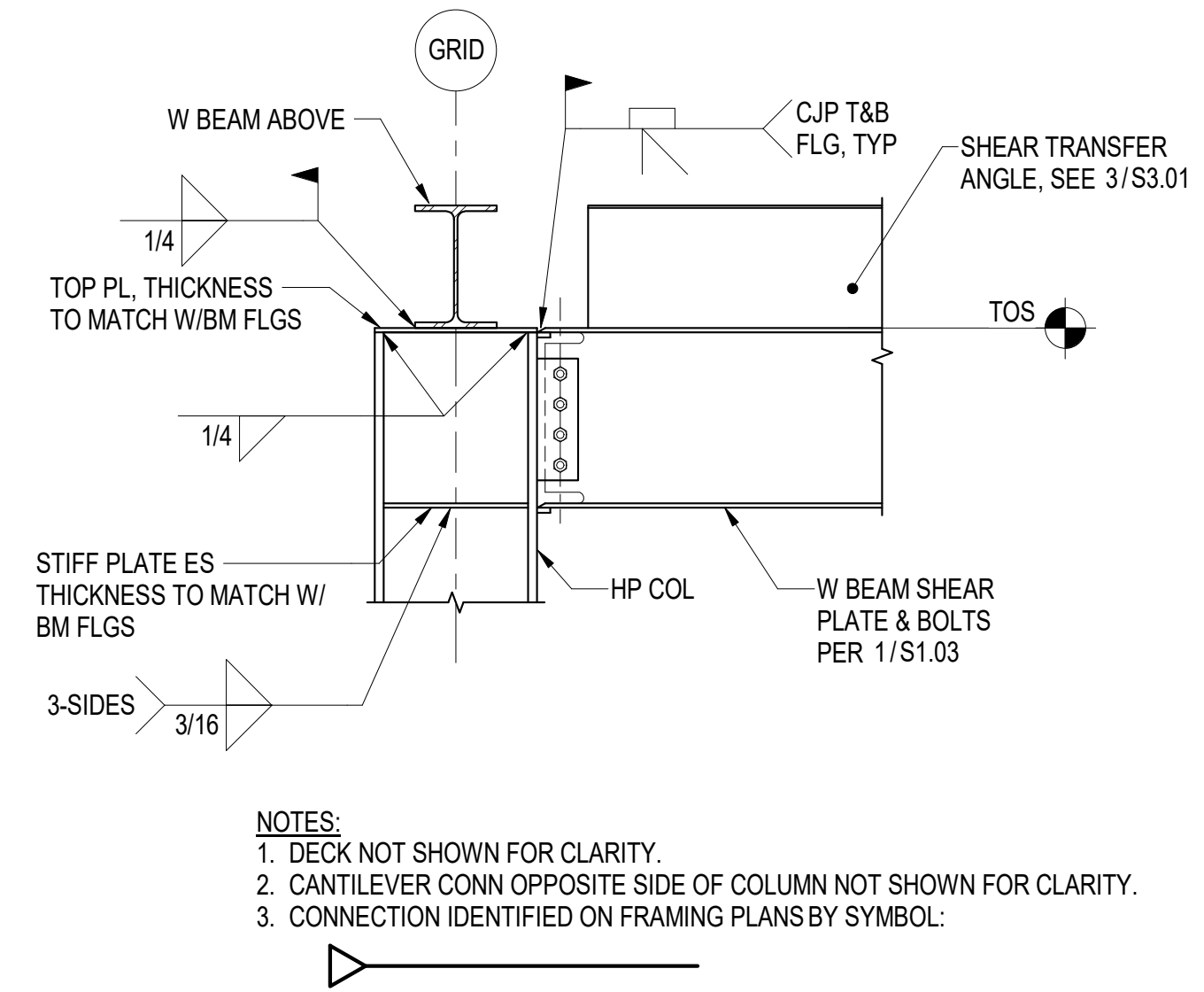
**1** DRILLED PIER - ADD ALT #1  
 S3.03 3/4" = 1'-0"



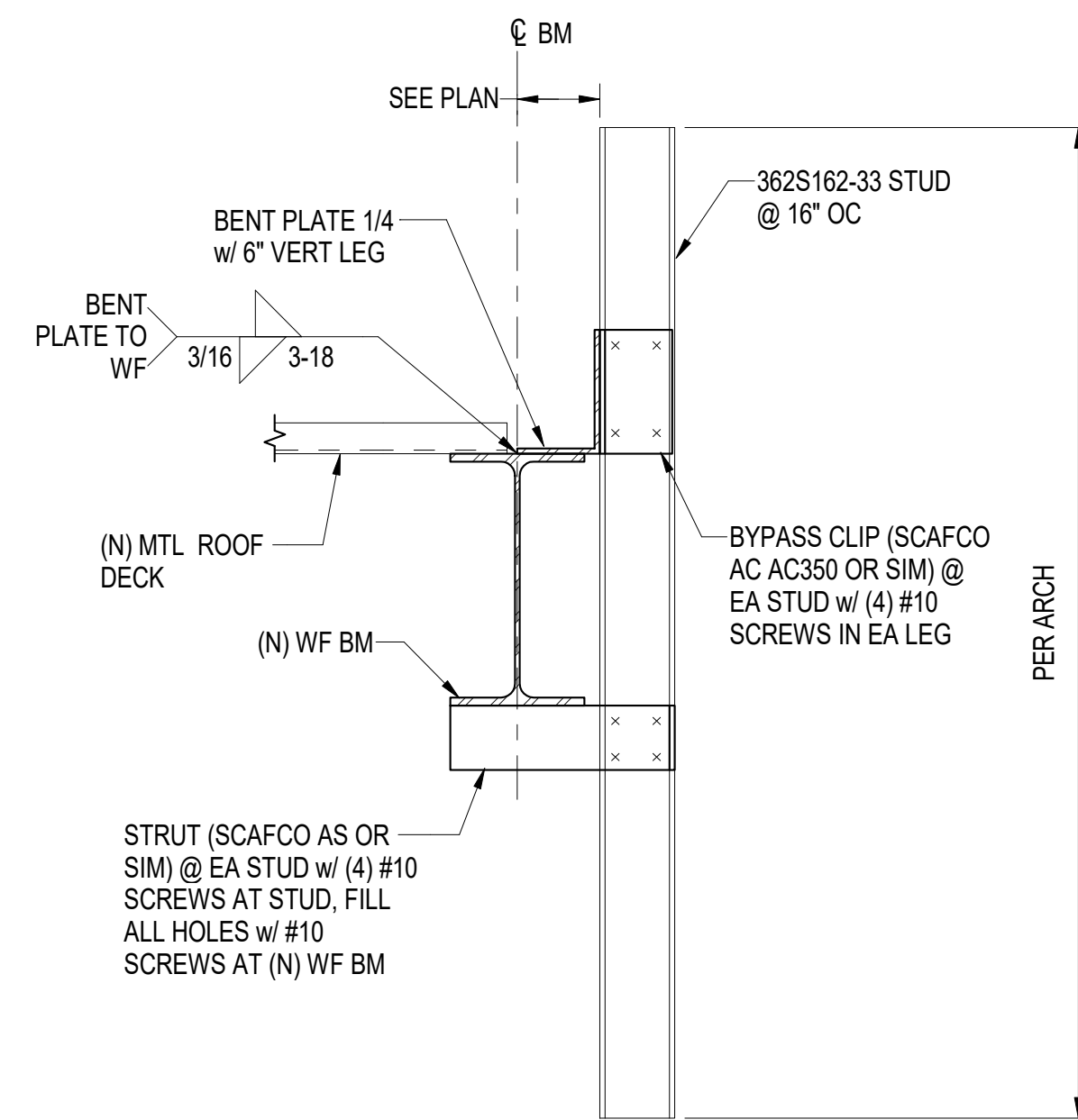
**2** TOP OF COL DETAIL - ADD ALT #1  
 S3.03 1" = 1'-0"



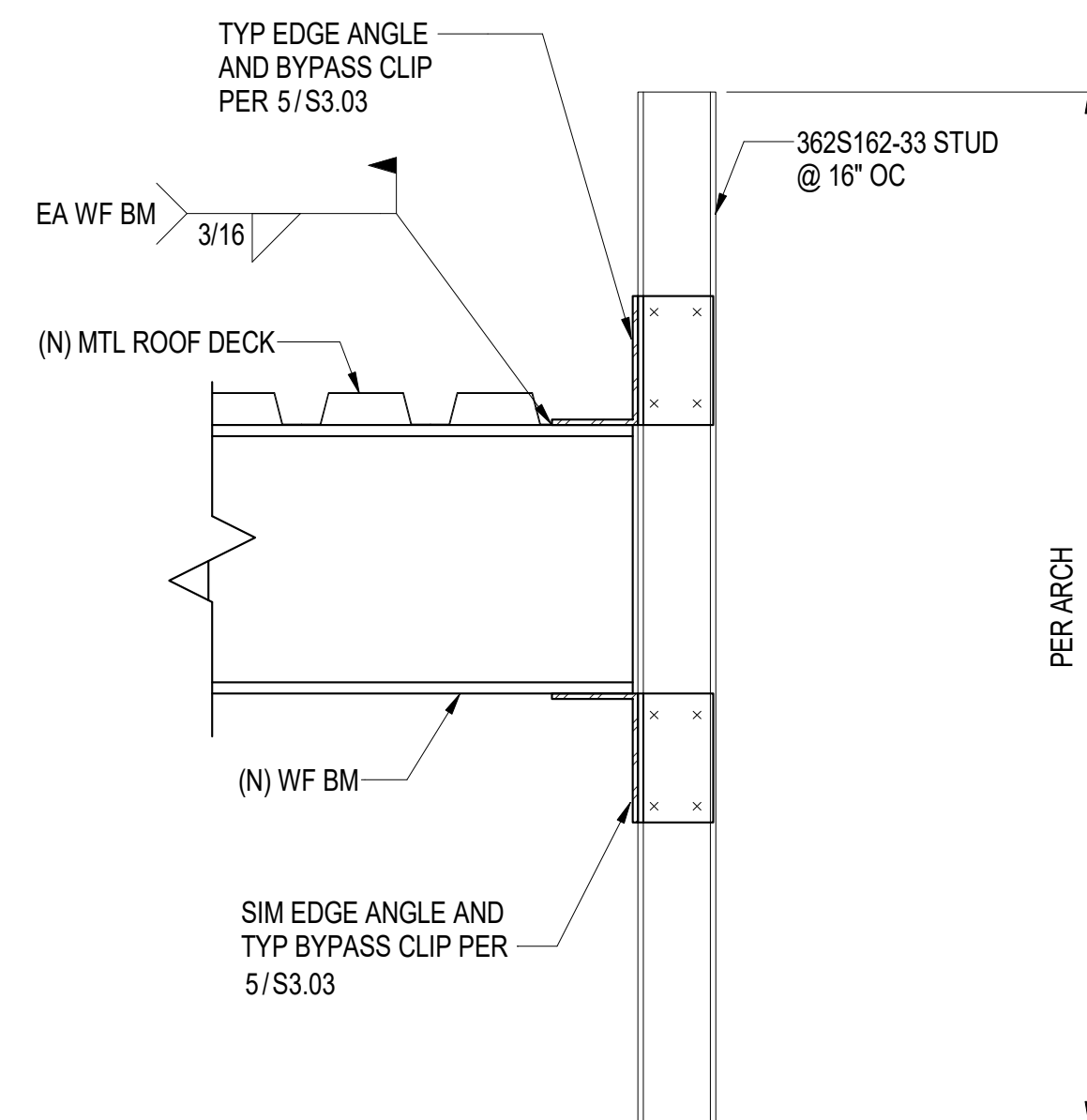
**3** CHANNEL TO CHANNEL CONNECTION - ADD ALT #1  
 S3.03 1 1/2" = 1'-0"



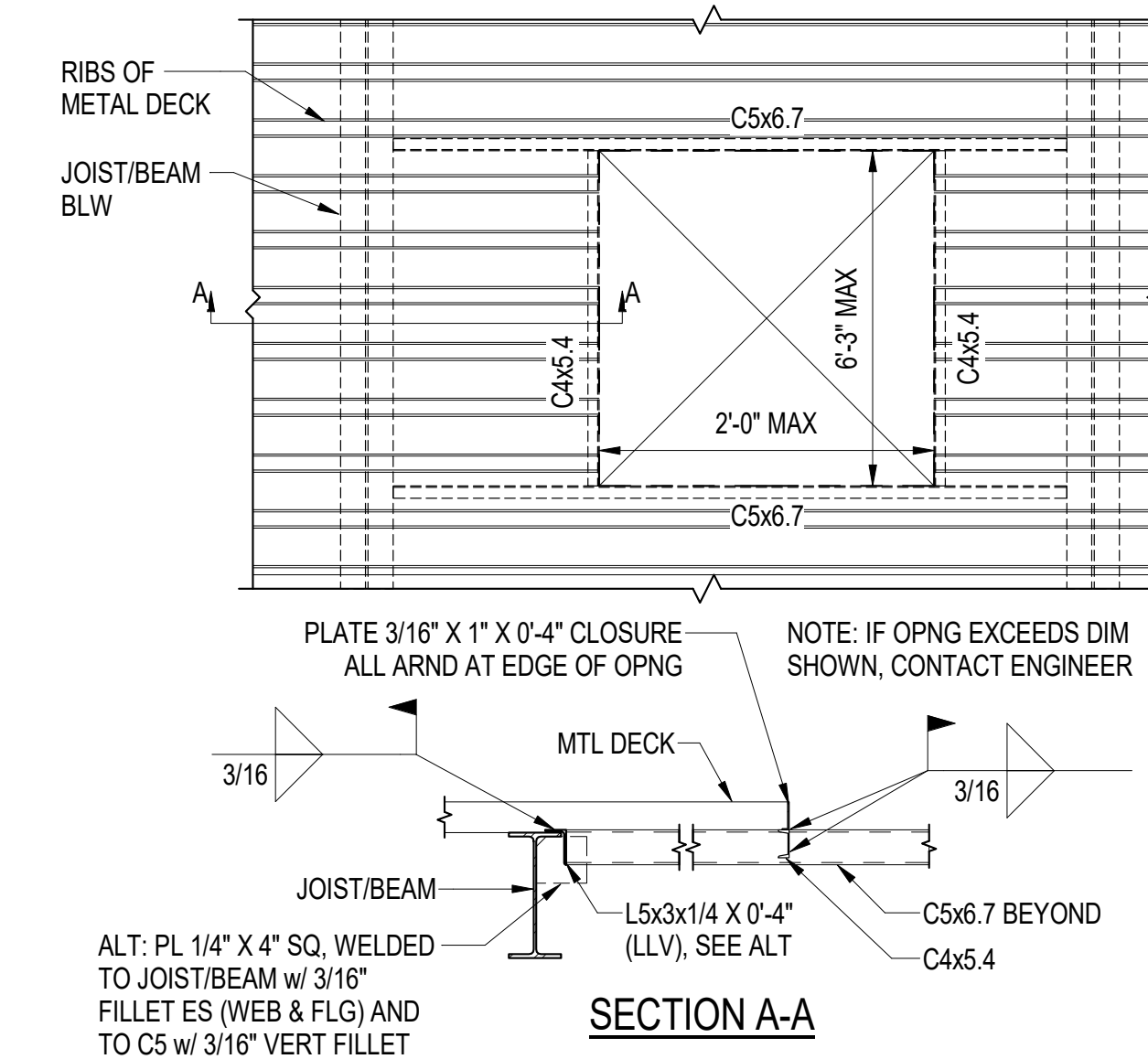
**4** TYP BEAM/COL CANTILEVER CONN - ADD ALT #1  
 S3.03 3/4" = 1'-0"



**5** WEST CANOPY ROOF EDGE DETAIL - WEST/EAST EDGE- ADD ALT #1  
 S3.03 1 1/2" = 1'-0"



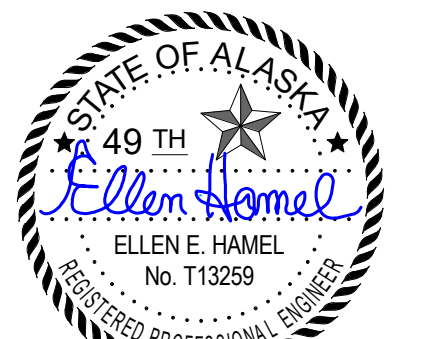
**6** WEST CANOPY ROOF EDGE DETAIL - NORTH/SOUTH EDGE - ADD ALT #1  
 S3.03 1 1/2" = 1'-0"



**7** LARGE OPENINGS IN ROOF DECK - ADD ALT #1  
 S3.03 1/2" = 1'-0"

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WEST  
 CANOPY/RAMP  
 TYP DETAILS  
**S3.03**



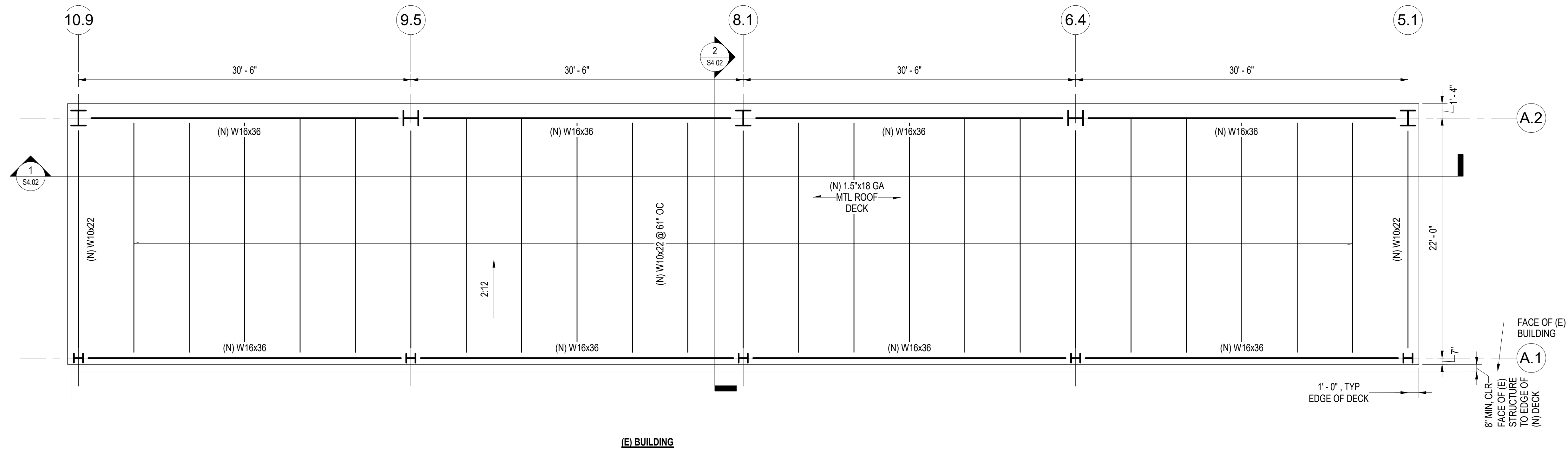
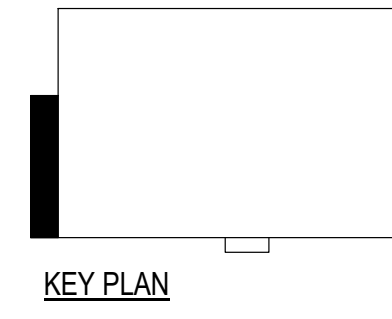
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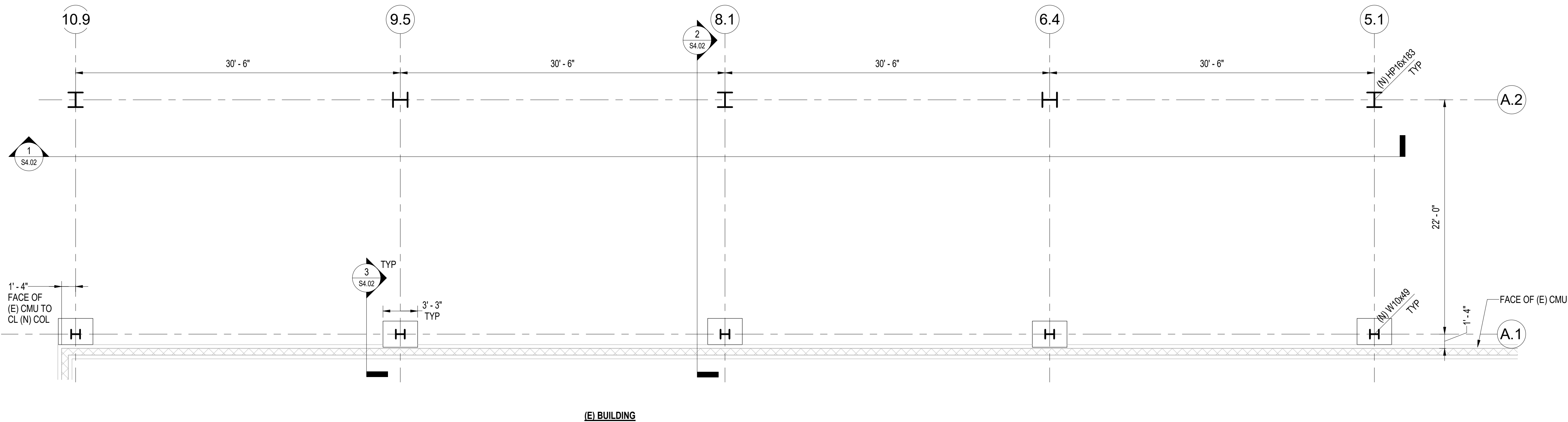
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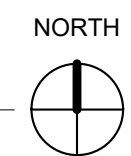
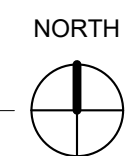
No	Description	Date



**1 NORTH CANOPY ROOF PLAN - ADD ALTERNATE #2**  
 S4.01 3/16" = 1'-0"



**2 NORTH CANOPY FOUNDATION PLAN - ADD ALTERNATE #2**  
 S4.01 3/16" = 1'-0"



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**NORTH CANOPY PLANS**  
**S4.01**

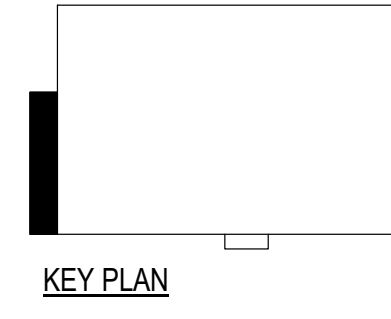
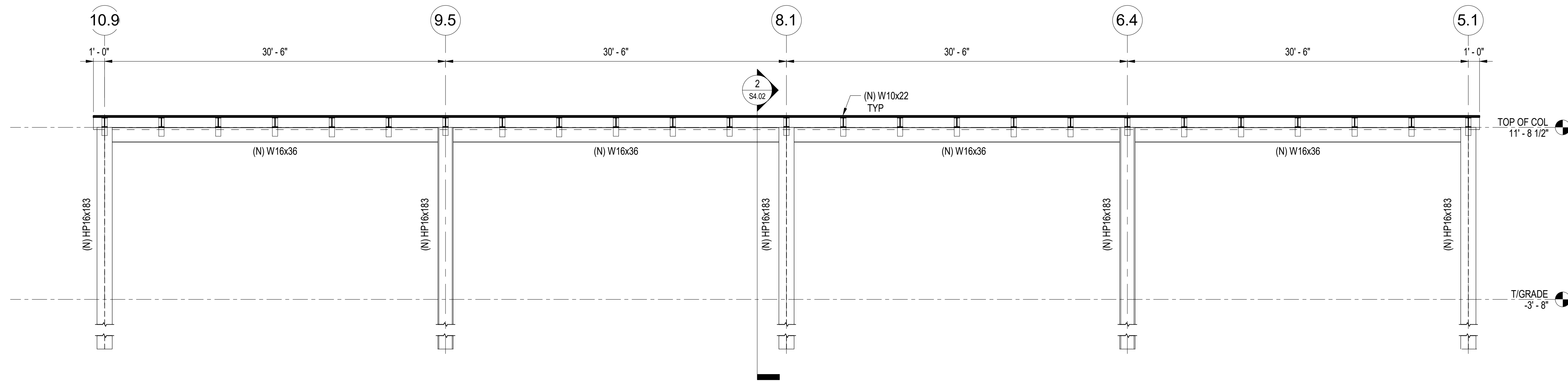
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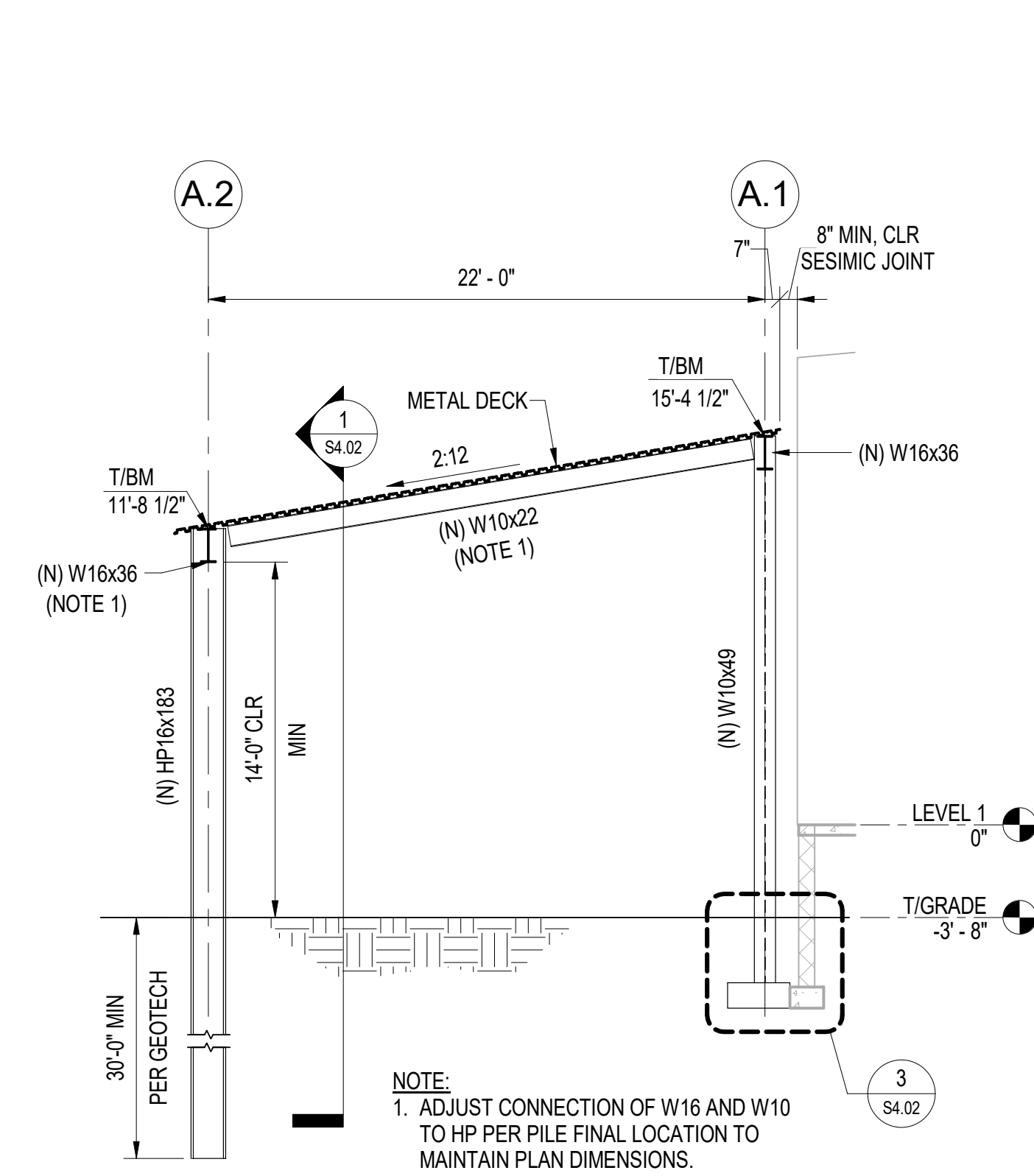
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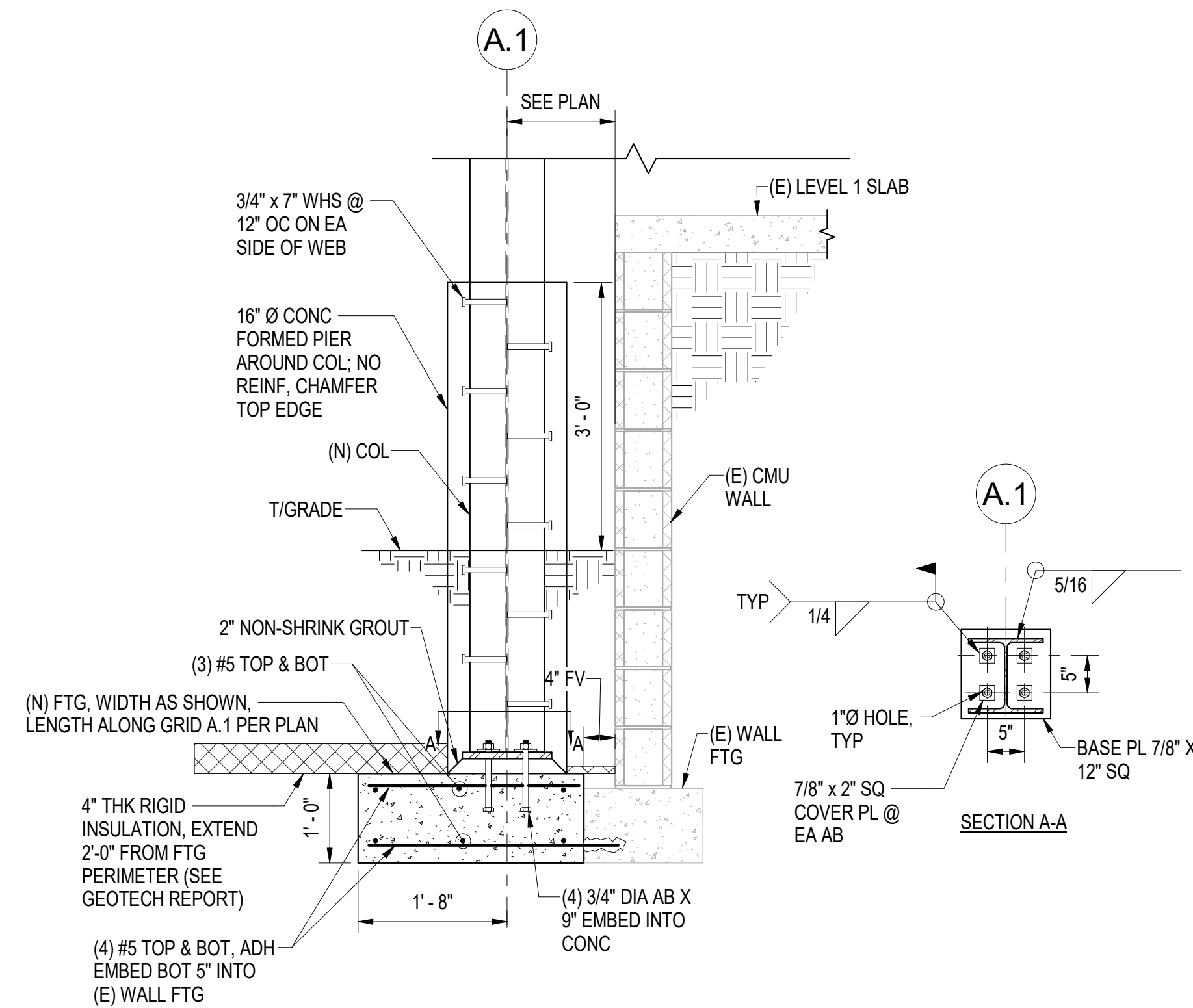


**1 NORTH CANOPY LONGITUDINAL SECTION - ADD ALTERNATE #2**  
 S4.02 3/16" = 1'-0"

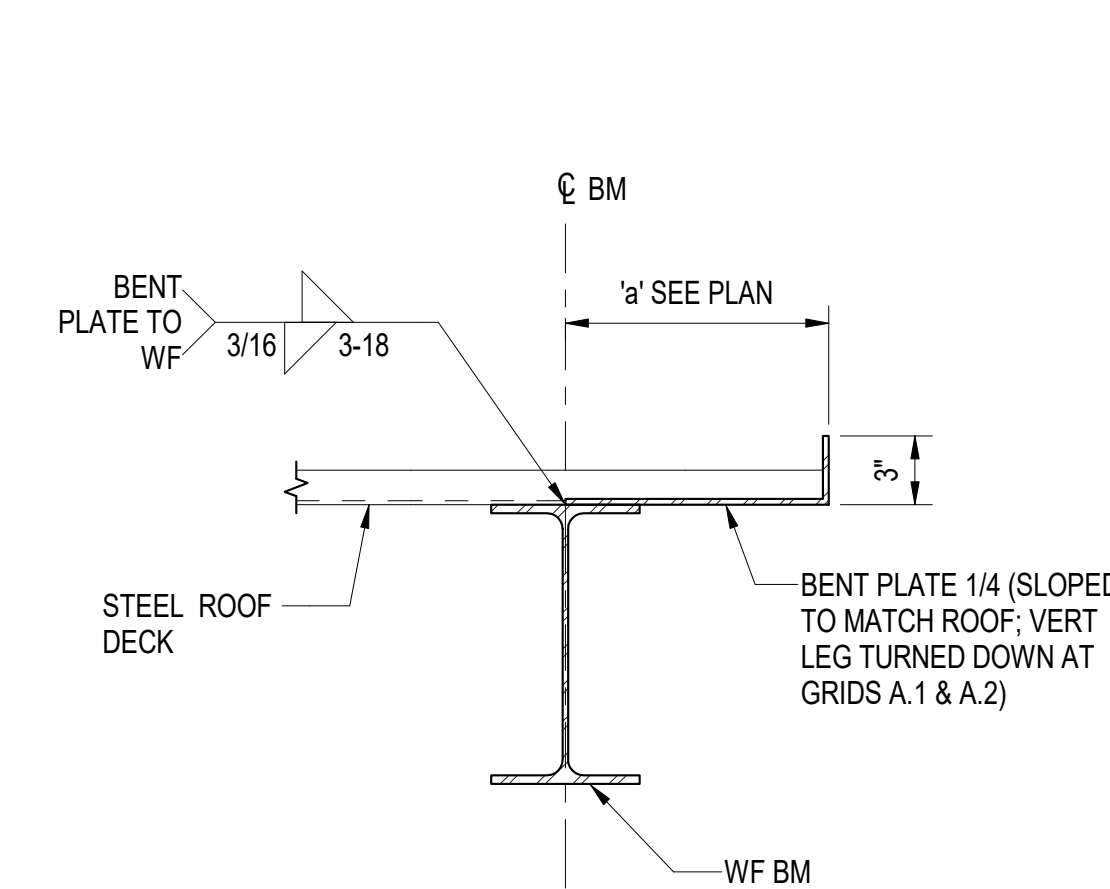


**NOTE:**  
 1. ADJUST CONNECTION OF W16 AND W10 TO HP PER PILE FINAL LOCATION TO MAINTAIN PLAN DIMENSIONS.

**2 NORTH CANOPY TRANSVERSE SECTION - ADD ALTERNATE #2**  
 S4.02 3/16" = 1'-0"



**3 (N) FTG AT (E) CMU EXTERIOR WALL - ADD ALTERNATE #2**  
 S4.02 3/4" = 1'-0"



**4 NORTH CANOPY ROOF EDGE DETAIL - ADD ALTERNATE #2**  
 S4.02 1 1/2" = 1'-0"

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**NORTH CANOPY SECTIONS & TYP DETAILS**  
**S4.02**

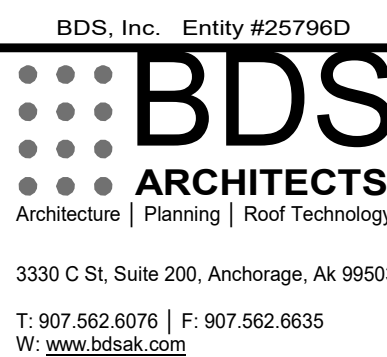
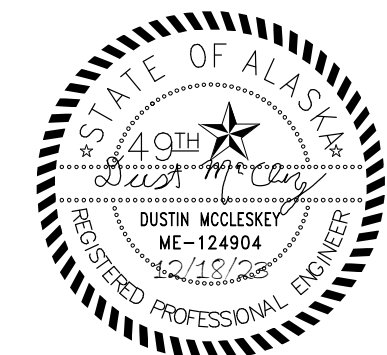


PIPING LEGEND	LOGIC	ABBREVIATIONS
DENOTES DEMOLITION WASTE VENT PIPING COLD WATER HOT WATER HOT WATER RECIRCULATED SEE ABBREVIATIONS FOR MEDIA PIPE UP PIPE DOWN TEE UP TEE DOWN CAP UNION DIRECTION OF FLOW BALL VALVE HOSE BIBB PUMP CLEANOUT PIPE GUIDE PIPE ANCHOR	POINT OF CONNECTION DETAIL NUMBER SHEET LOCATED ON DIRECTION OF VIEW SECTION NUMBER SHEET LOCATED ON SHEET NOTES CONNECTION - NECK SIZE CFM DIFFUSER OR GRILLE TYPE	ABV ABOVE AD ACCESS DOOR AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE ARCH ARCHITECTURAL BDD BACKDRAFT DAMPER BLDG BUILDING CAP CAPACITY CLG CEILING CONT CONTINUED CONN CONNECTION CW COLD WATER DEG DEGREE DIA DIAMETER DIM DIMENSION DN DOWN DWG DRAWING DWV DRAIN-WASTE-VENT (E) EXISTING EQUIPMENT DESIGNATOR EFF EFFICIENCY ENT ENTERING EXIST EXISTING F FAHRENHEIT FIN FINISHED FLR FLOOR FT FEET IAPMO INTERNATIONAL ASSOCIATION OF PLUMBING & MECHANICAL OFFICIALS IBC INTERNATIONAL BUILDING CODE IN INCHES INS INSULATION MAX MAXIMUM MFGR MANUFACTURER MIN/MIN. MINIMUM NO. NUMBER NTS NOT TO SCALE OC ON CENTER OD-X OVERFLOW DRAIN DESIGNATOR OL OVERFLOW RAINLEADER RD-X ROOF DRAIN DESIGNATOR RL RAINLEADER TEMP TYP/TYP. TEMPERATURE TYPICAL UPC UNIFORM PLUMBING CODE V VENT VTR VENT THRU ROOF W WASTE W/ WITH W/O WITHOUT W.C. WATER COLUMN WG WATER GAUGE

PLUMBING FIXTURE SCHEDULE					
SYMBOL	FIXTURE	WASTE	BASIS OF DESIGN	MODEL	REMARKS
RD-1	ROOF DRAIN - PRIMARY	4	ZURN	Z-100	CAST IRON DOME AND STRAINER, NO HUB OUTLET.
RD-2	ROOF DRAIN - PRIMARY	3	ZURN	Z-100	CAST IRON DOME AND STRAINER, NO HUB OUTLET.
OD-1	ROOF DRAIN - SECONDARY	4	ZURN	Z-100	SIMILAR TO RD-1, PROVIDE W/ 2" TALL DAM.
OD-2	ROOF DRAIN - SECONDARY	3	ZURN	Z-100	SIMILAR TO RD-2, PROVIDE W/ 2" TALL DAM.

**REVISIONS**

No Description Date



**ASD PURCHASING WAREHOUSE ROOF REPLACEMENT**

4919 VAN BUREN  
 BDS Project No.: M3108  
 Client Project No.:

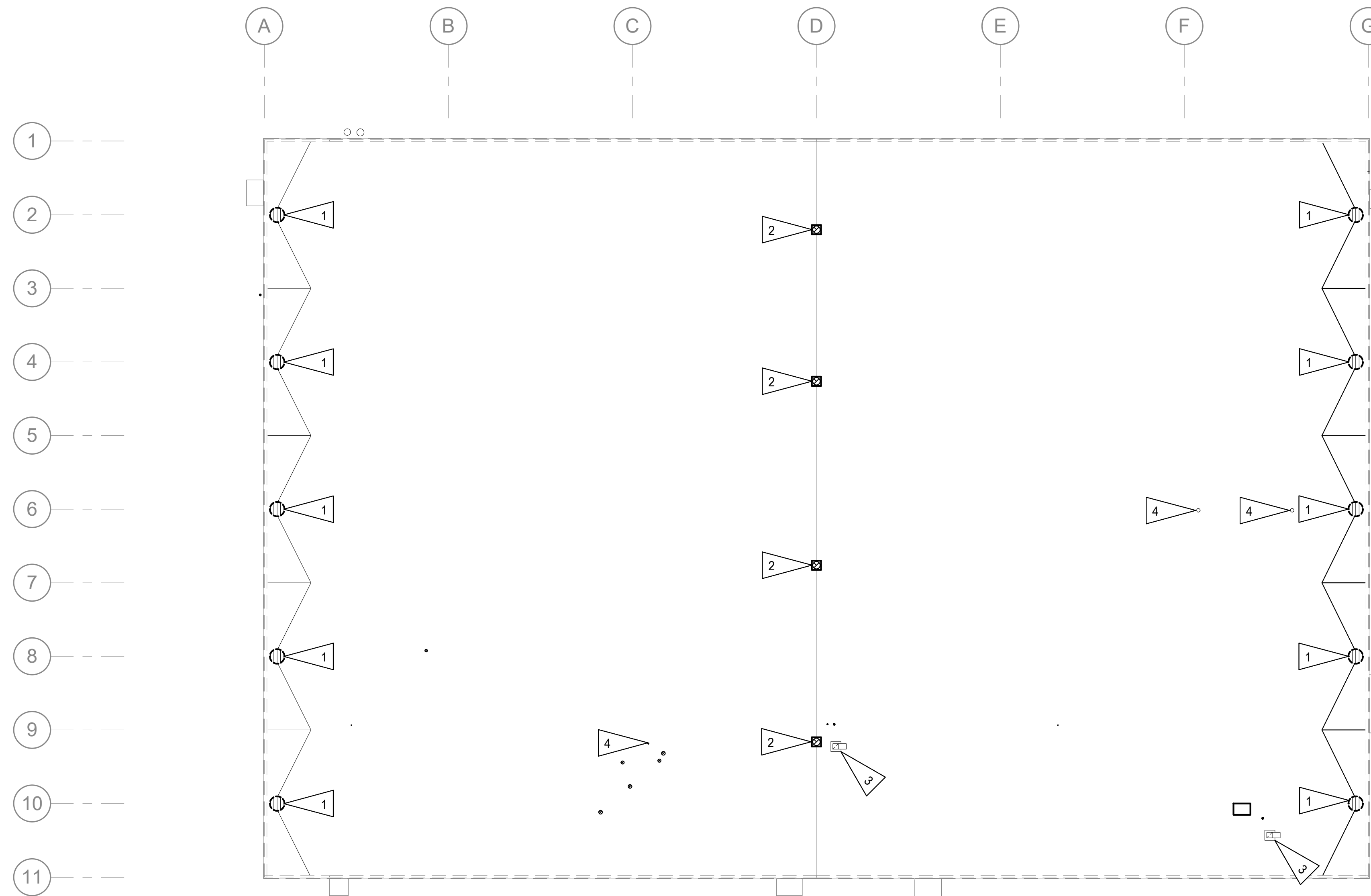
BID DOCUMENTS  
 12/18/23  
**LEGENDS, ABBREVIATIONS, LOGIC AND SCHEDULE M0.01**

**GENERAL NOTES:**

- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM A NON-DESTRUCTIVE WALK-THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HEREIN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SHOWN FOR DEMOLITION PRIOR TO START OF WORK.
- B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A LOCATION AS DIRECTED BY THE OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- C. DASHED OR DOTTED BOLD LINES INDICATE ITEMS TO BE REMOVED. UNBOLDED LINES INDICATE EXISTING ITEMS TO REMAIN.

**SHEET NOTES:** 

- 1. DEMOLISH ROOF DRAIN. DEMOLISH RAINLEADER PIPING TO EXTENT NECESSARY FOR REMODEL WORK.
- 2. DEMOLISH GRAVITY HOOD CURB. DISASSEMBLE GRAVITY HOOD AND SALVAGE FOR REINSTALLATION.
- 3. DEMOLISH AIR HANDLER INTAKE CURB. DISASSEMBLE INTAKE AND SALVAGE FOR REINSTALLATION.
- 4. DEMOLISH VTR DOWN TO 12" BELOW ROOF DECK. EXISTING PIPING BELOW SHALL REMAIN FOR RECONNECTION DURING REMODEL PHASE.



**1** ROOF DEMOLITION PLAN  
1" = 20'-0"

**REVISIONS**  
No Description Date

**RSA**  
Mechanical and Electrical Consulting Engineers  
670 West Fireweed Lane, Suite 200  
Anchorage, AK 99503  
907.278.0521  
Corporate No.: AECC642



BDS, Inc. Entity #25796D  
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**ASD PURCHASING WAREHOUSE ROOF REPLACEMENT**  
4919 VAN BUREN  
BDS Project No.: M3108  
Client Project No.:

BID DOCUMENTS  
12/18/23

ROOF DEMOLITION PLAN  
**M1.01**

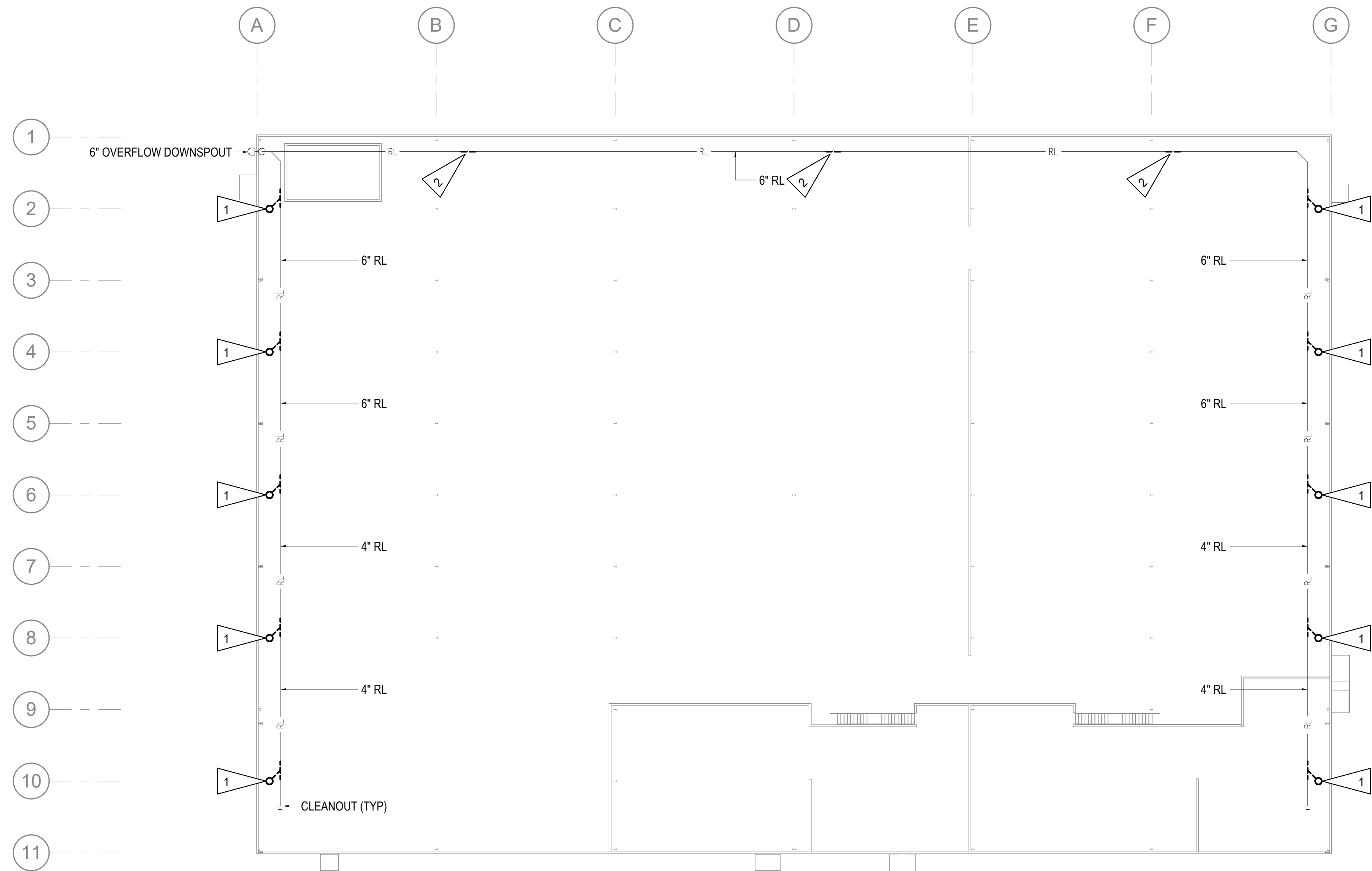


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**SHEET NOTES:** 

- 1. DEMOLISH RAIN LEADER BRANCH PIPING FROM MAIN TO ROOF DRAIN. DEMOLISH RAIN LEADER MAIN AS NECESSARY TO ACCOMMODATE NEW DRAIN ARRANGEMENT.
- 2. DEMOLISH RAIN LEADER MAIN AS NECESSARY TO ACCOMMODATE DWV EXPANSION JOINTS.

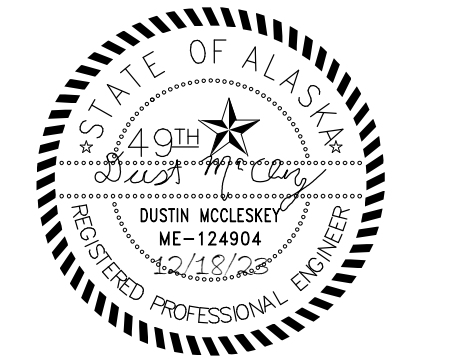


**1 PLUMBING DEMOLITION PLAN**  
1" = 20'-0"

**REVISIONS**

No	Description	Date

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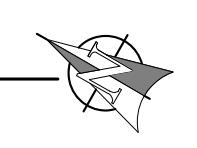


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4919 VAN BUREN  
BDS Project No.: M3108  
Client Project No.:

BID DOCUMENTS  
12/18/23

**PLUMBING DEMOLITION PLAN**  
**M1.02**



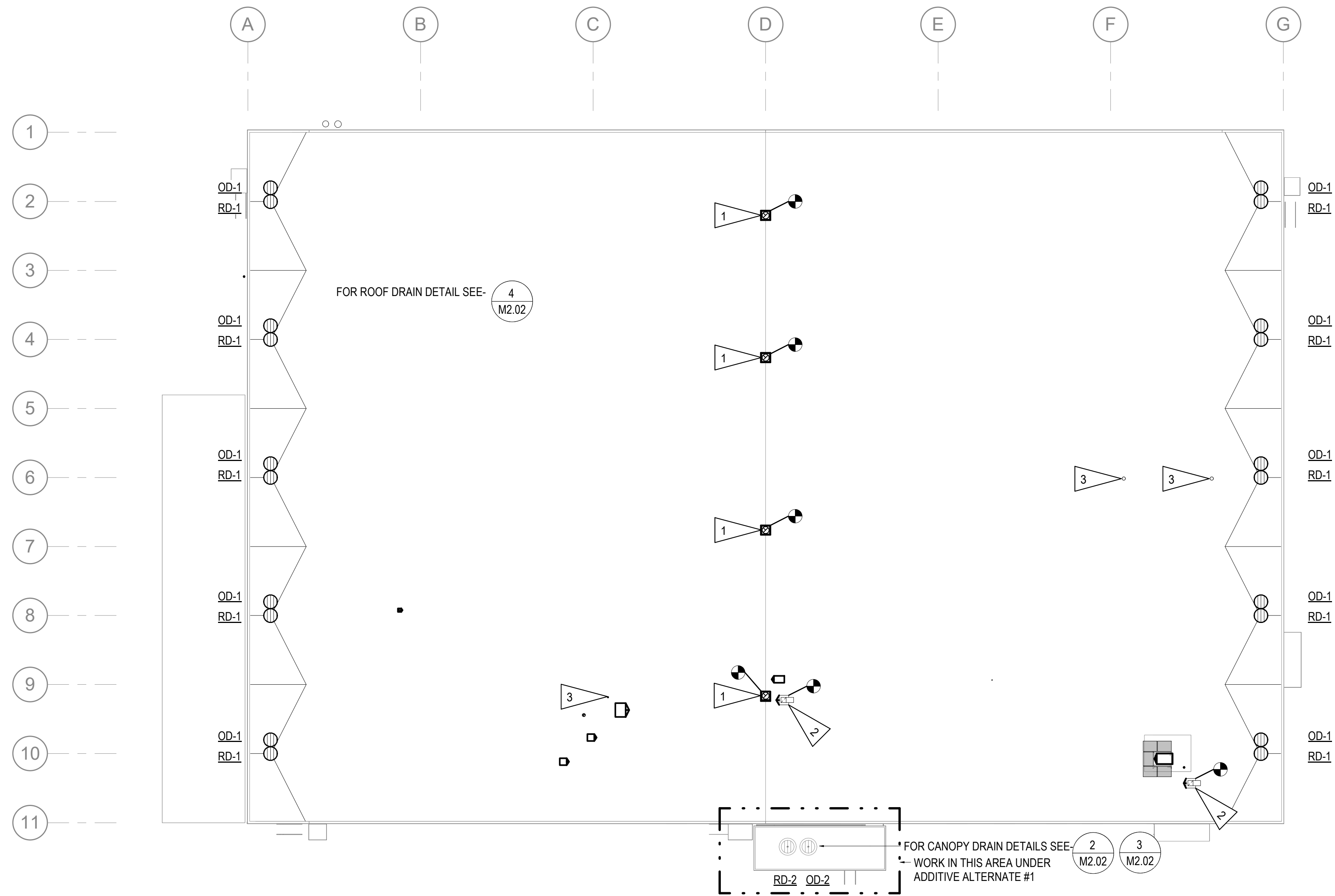
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**SHEET NOTES:** 

1. REINSTALL SALVAGED GRAVITY HOOD THROUGH NEW ROOF CURB.
2. REINSTALL SALVAGED AIR HANDLER INTAKE THROUGH NEW ROOF CURB.
3. EXTEND VTR MINIMUM 12" ABOVE NEW ROOF MEMBRANE.

**REVISIONS**  
No Description Date



**1** ROOF REMODEL PLAN  
1" = 20'-0"

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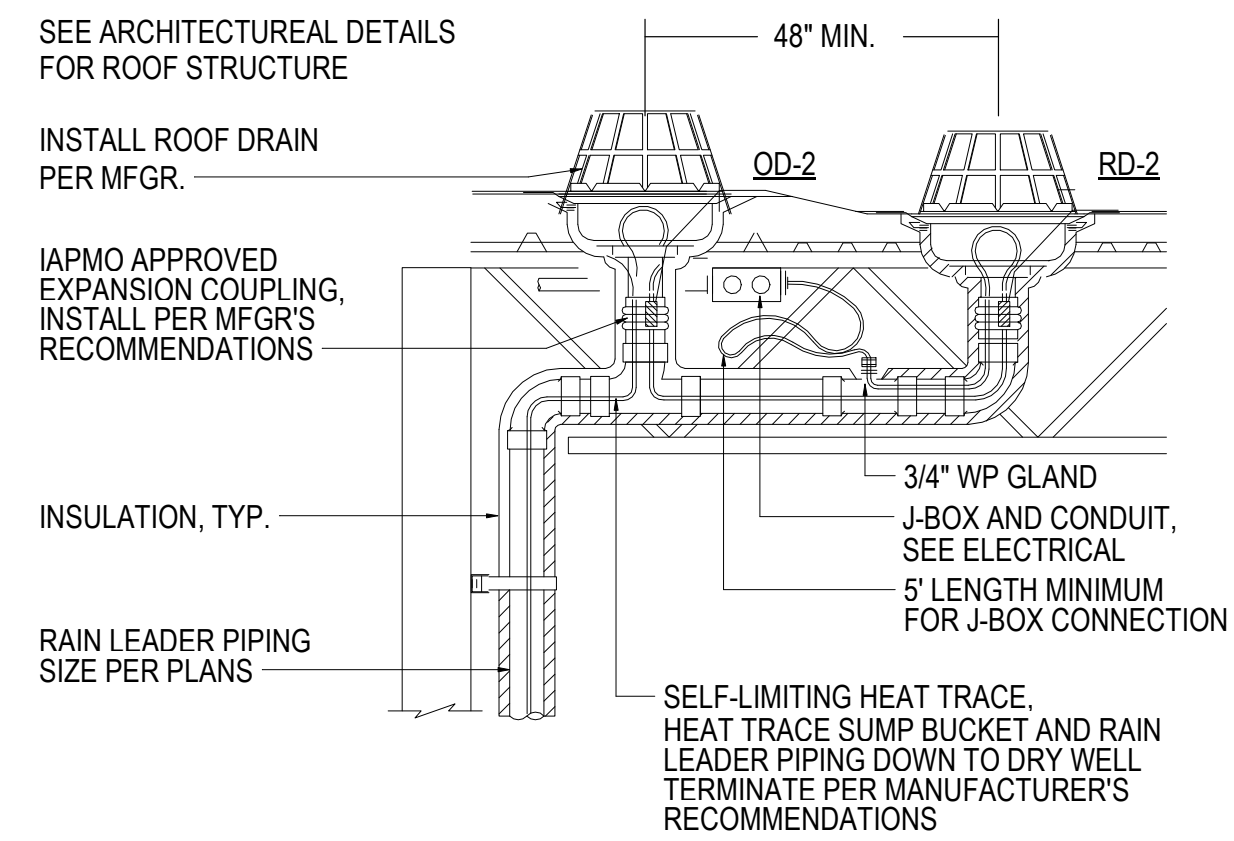


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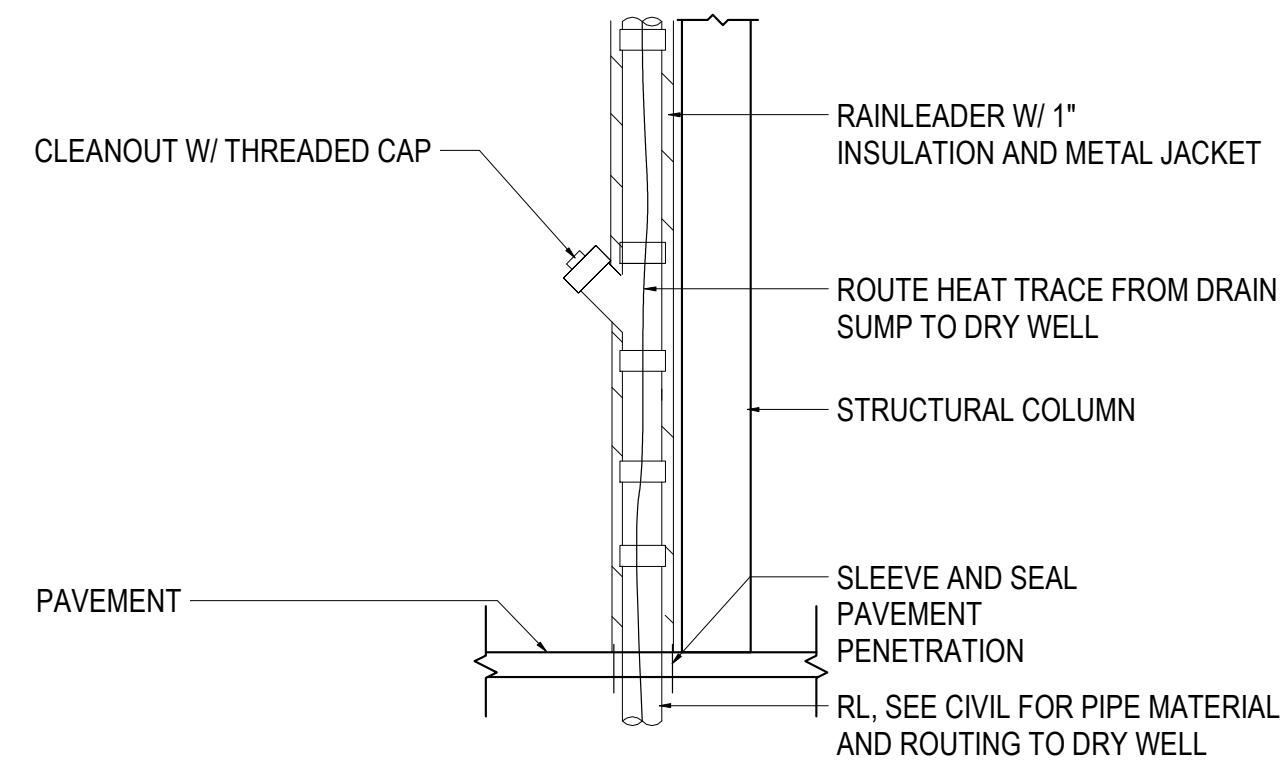
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4919 VAN BUREN  
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Client Project No.:  
BID DOCUMENTS  
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**ROOF REMODEL PLAN M2.01**

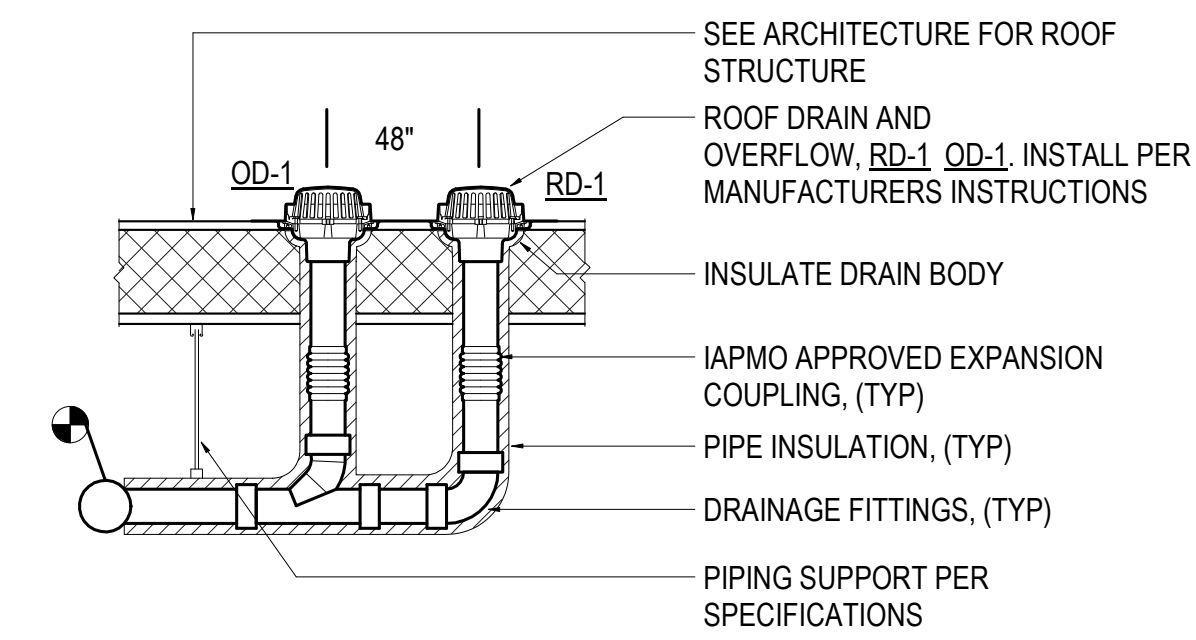




**2 CANOPY ROOF DRAIN DETAIL - ALT#1**  
NOT TO SCALE



**3 CLEANOUT DETAIL - ALT#1**  
NOT TO SCALE



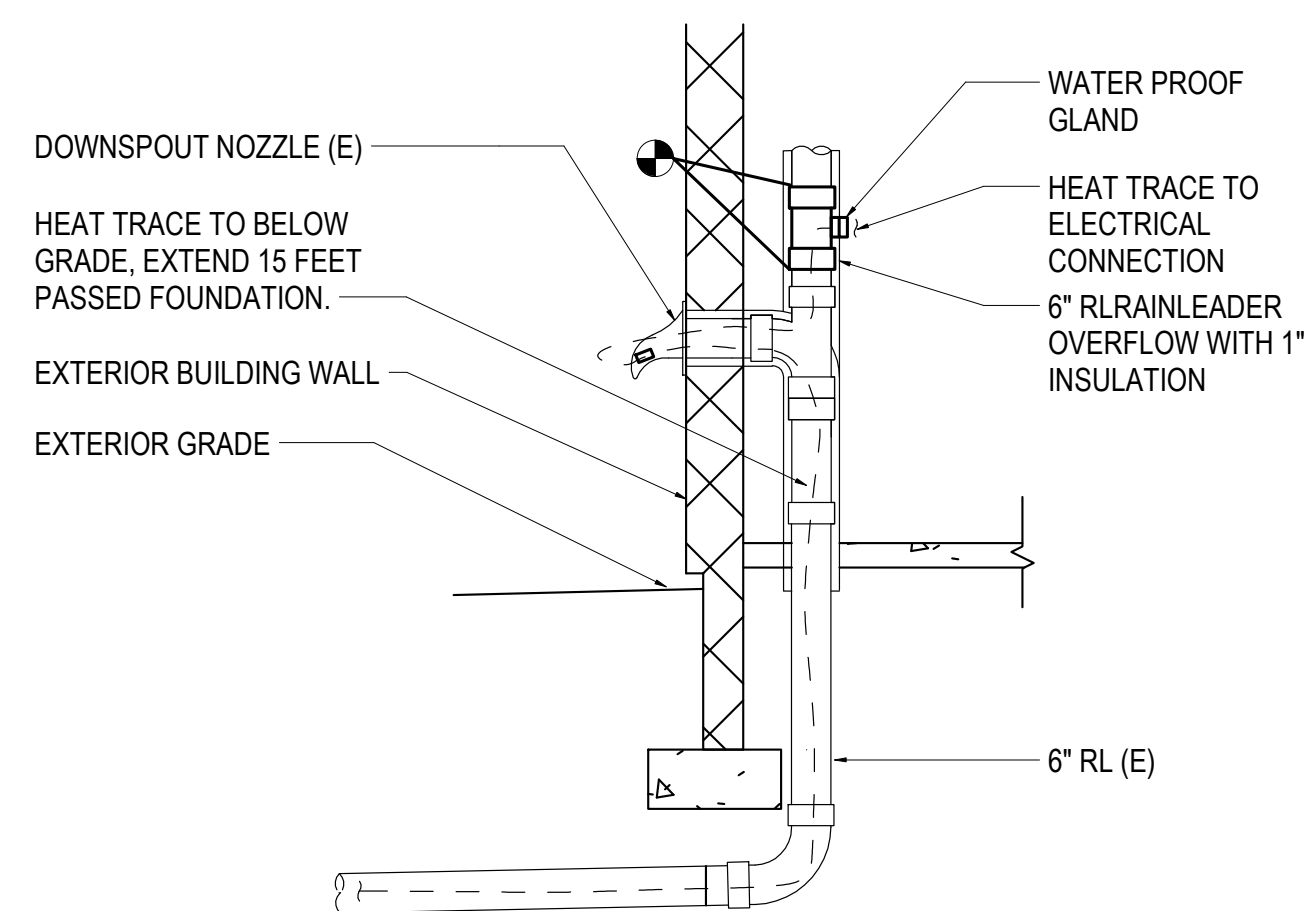
**4 ROOF/OVERFLOW DRAIN DETAIL**  
NOT TO SCALE

**GENERAL NOTES:**

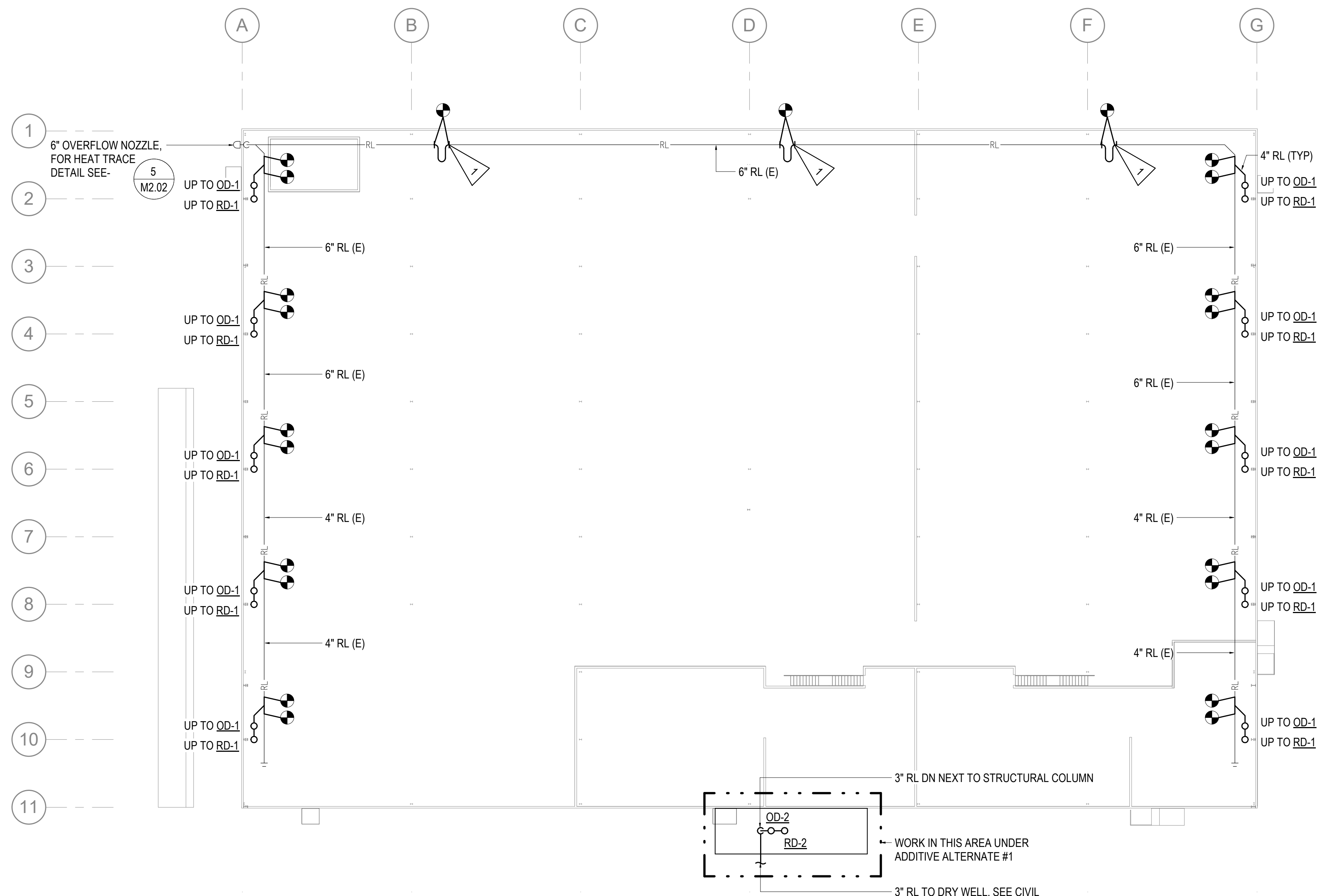
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**SHEET NOTES:**

1. PROVIDE 6" DWV EXPANSION JOINT AT LOCATIONS INDICATED.



**5 EXISTING OVERFLOW HEAT TRACE DETAIL**  
NOT TO SCALE



**1 PLUMBING REMODEL PLAN**  
1" = 20'-0"

**REVISIONS**

No	Description	Date

**RSA**  
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12/18/23

**PLUMBING REMODEL PLAN M2.02**

### ELECTRICAL LEGEND

○	ROUND FIXTURE - SURFACE MTD	AFG	ABOVE FINISHED GRADE
●	ROUND EMERGENCY FIXTURE - SURFACE MTD	C	CONDUIT
□	SQUARE FIXTURE - SURFACE MTD	E	DENOTES EXISTING ITEM
Ⓟ	PHOTOCELL	EM	DENOTES EMERGENCY POWER
Ⓢ	HAND-AUTO SWITCH	HT	HEAT TRACE
ⓐ	FIXTURE TAG (LETTER INDICATES TYPE)	K	KELVIN
—	CONDUIT	LED	LIGHT EMITTING DIODE
#10	NUMBER AND SIZE OF WIRES (NO MARKS = 3 #12)	LM	LUMENS
A-2	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)	MCB	MAIN CIRCUIT BREAKER
—	PANEL	MLO	MAIN LUGS ONLY
Ⓝ	JUNCTION BOX	NEC	NATIONAL ELECTRICAL CODE
SCP	SECURITY CONTROL PANEL	NTS	NOT TO SCALE
Ⓣ	DOOR POSITION CONTACT	R	DENOTES EXISTING ITEM THAT HAS BEEN RELOCATED
1	NOTE TAG (No. INDICATES NOTE)	TYP	TYPICAL
XX-XX	CIRCUIT TAG (No. INDICATES CIRCUIT)	UON	UNLESS OTHERWISE NOTED
AFF	ABOVE FINISHED FLOOR	WP	WEATHERPROOF

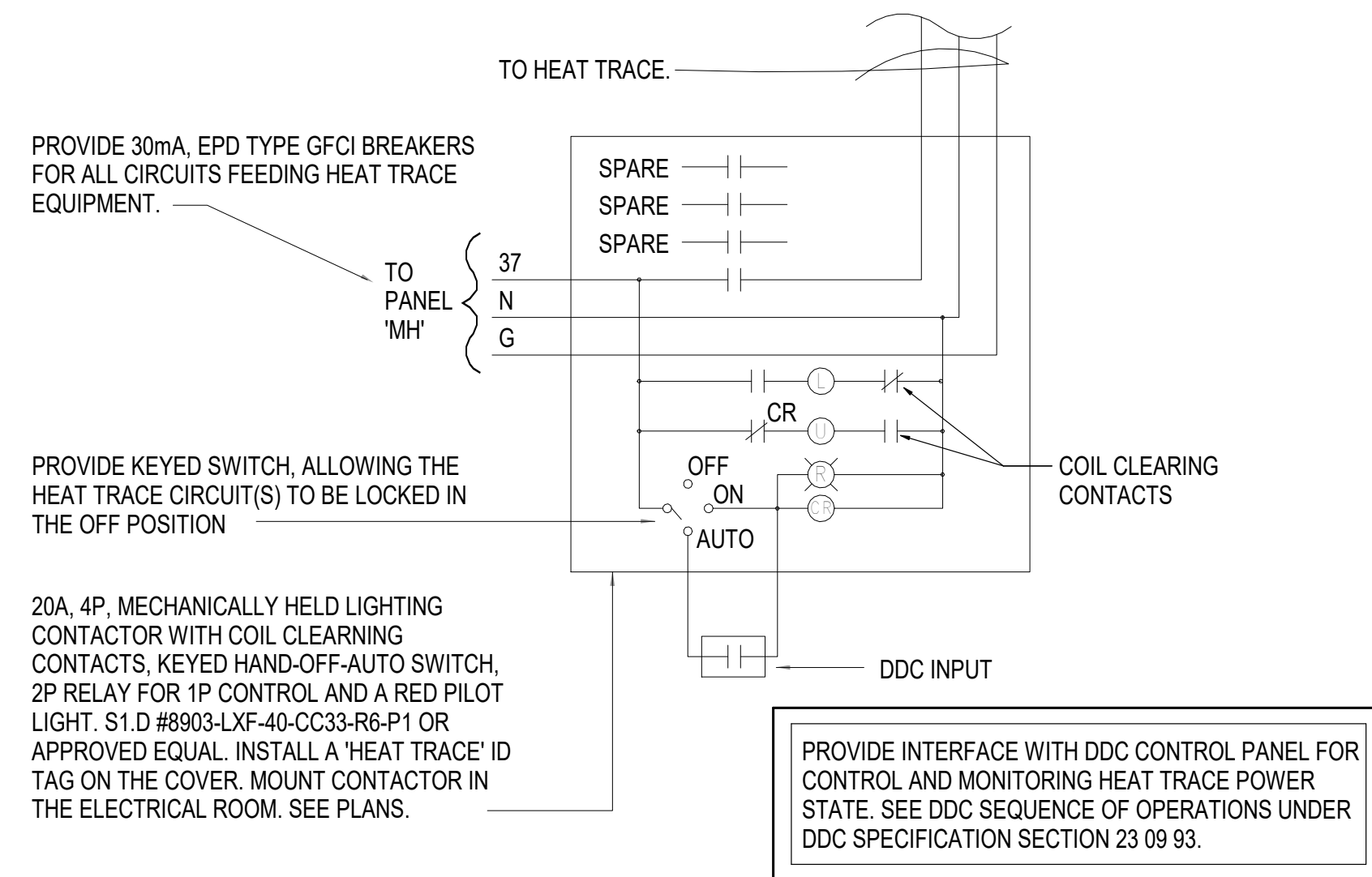
### LIGHT FIXTURE SCHEDULE

TYPE	LOCATION	MANUFACTURER AND CATALOG NUMBER (OR APPROVED EQUAL)	LUMINAIRE DESCRIPTION	MOUNTING		LAMPS	BALLAST/DRIVER	TOTAL INPUT WATTS
				TYPE	HEIGHT			
A	AS SHOWN	LITHONIA #CNY LED P0 40K MVOLT DDB	CANOPY LIGHT LED FIXTURE WITH FROSTED LENS AND DARK BRONZE FINISH.	SURFACE	BOTTOM OF CANOPY	4000K LED 3500LM	120/277V, 0-10V DIMMING DRIVER	27
B	AS SHOWN	KENDALL #MR13FFL-PP-DB-10L40K-277	OUTDOOR FLUSH MOUNT LED FIXTURE WITH DARK BRONZE FINISH.	SURFACE	BOTTOM OF CANOPY	4000K LED 1111LM	277V	13
INV	AS SHOWN	EVENLITE #PWII-12-LC	MINI DIMMING INVERTER WITH NICKEL-CADMIUM BATTERY.	WALL	SEE PLANS	N/A	N/A	N/A

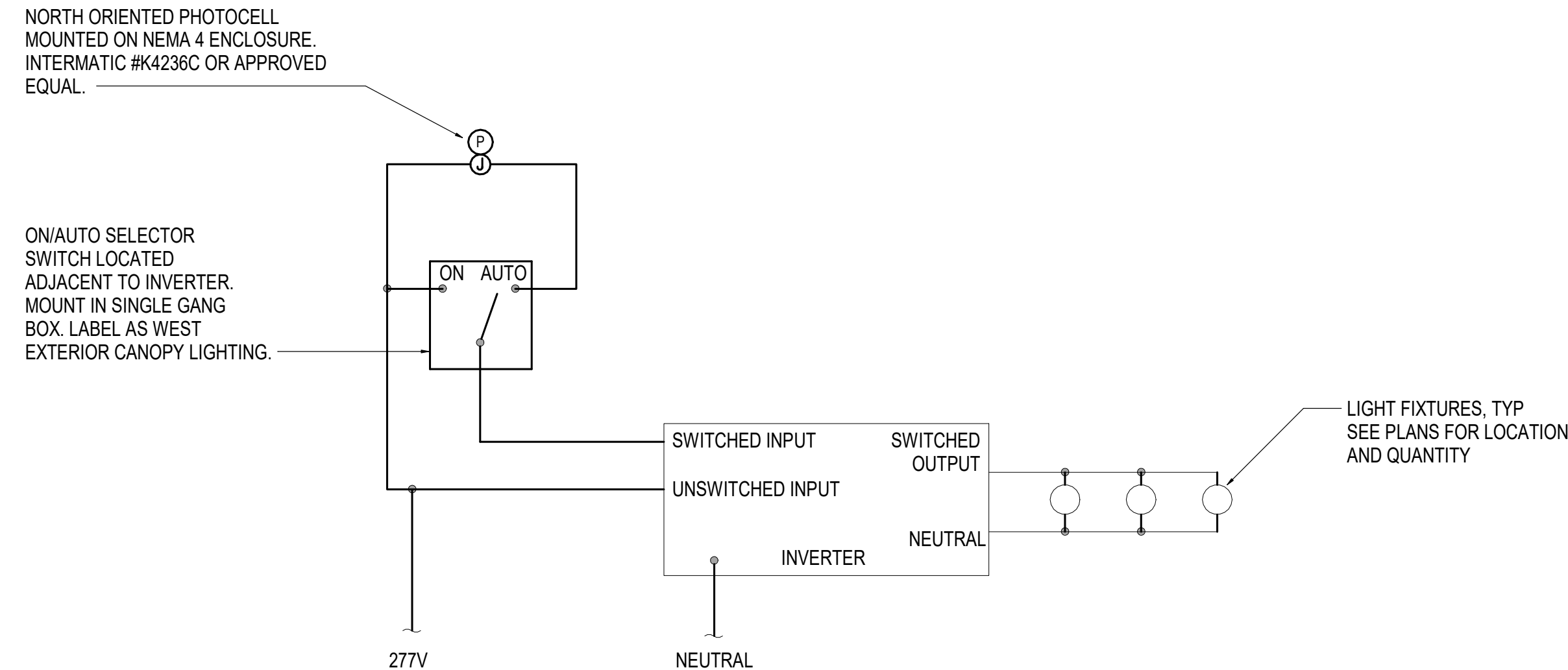


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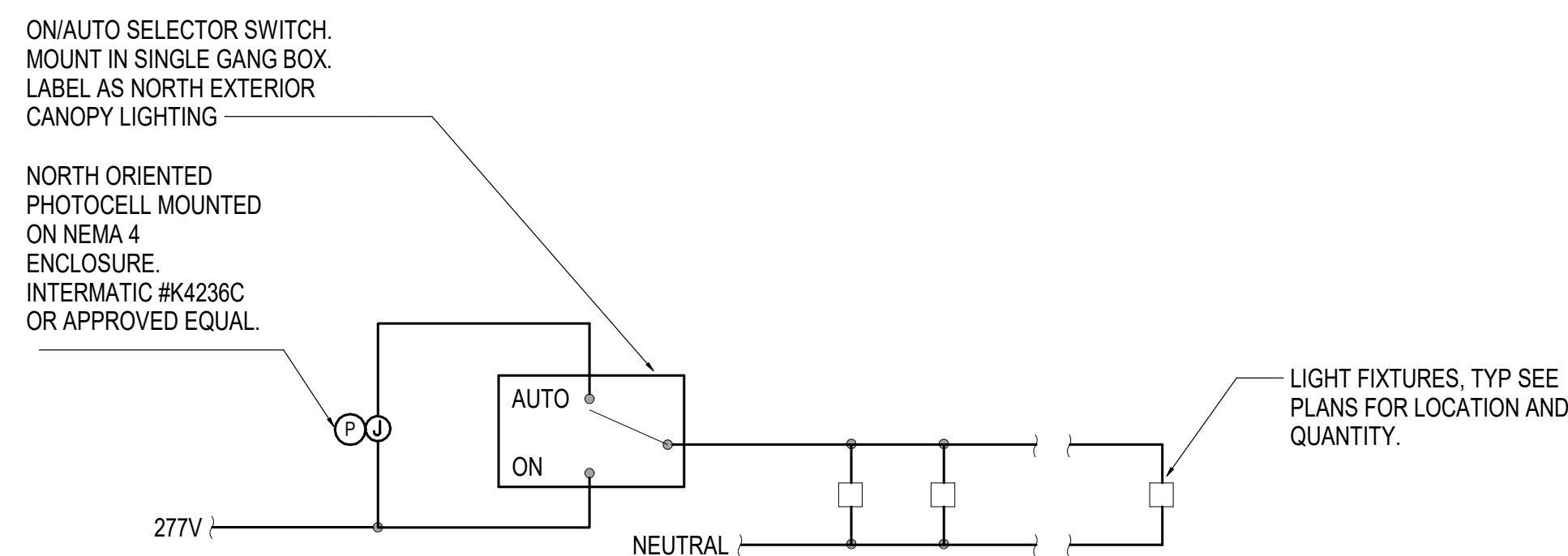
REVISIONS  
No Description Date



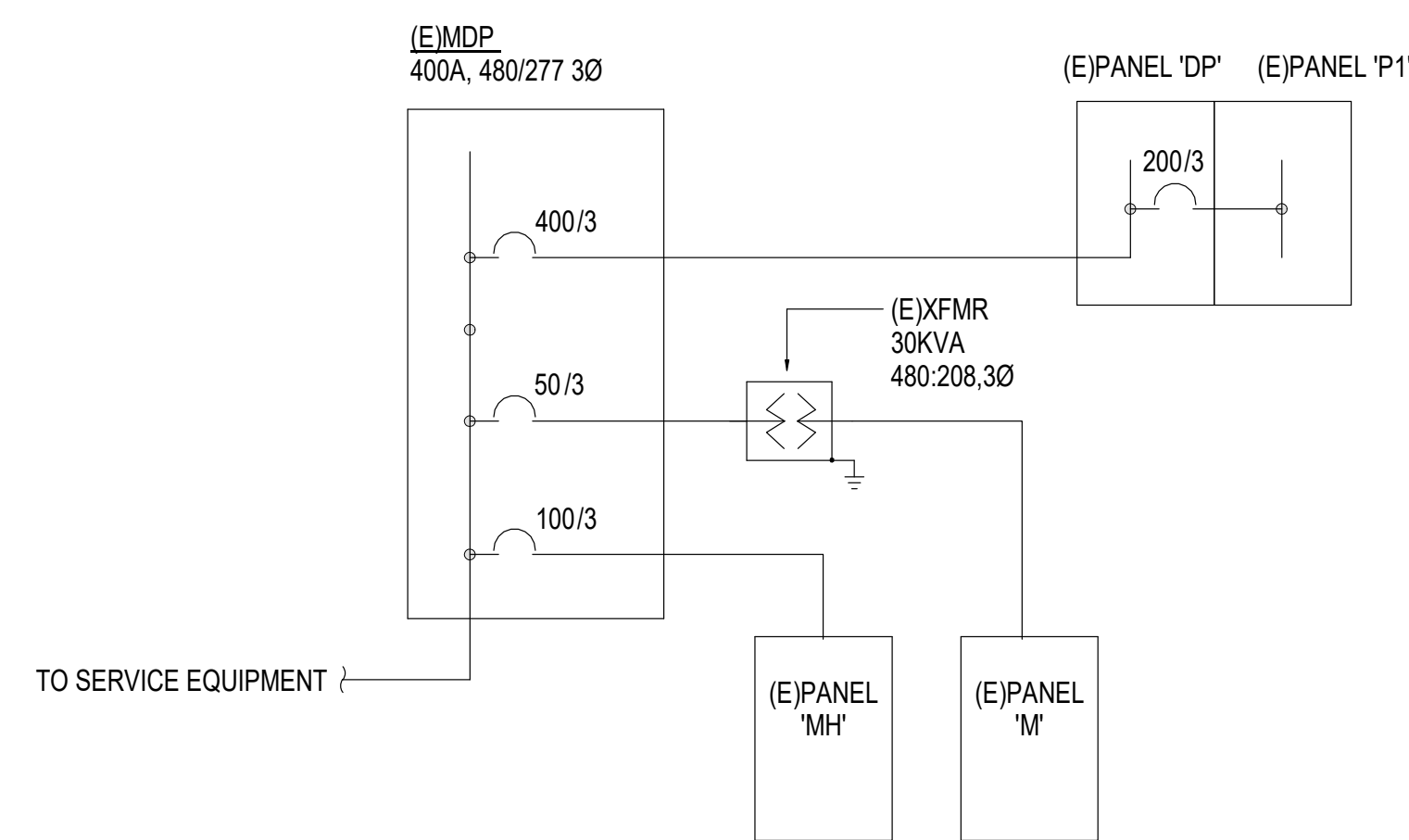
1 HEAT TRACE CONTROL DETAIL  
NOT TO SCALE



2 WIRING DIAGRAM - WEST CANOPY  
NOT TO SCALE



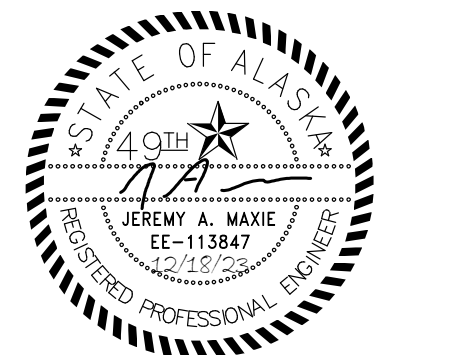
3 WIRING DIAGRAM - NORTH CANOPY  
NOT TO SCALE



4 PARTIAL ONE-LINE DIAGRAM (FOR REFERENCE ONLY)  
NOT TO SCALE

NOTIFICATION OF POTENTIAL HAZARDS:  
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PURCHASING/WAREHOUSE ROOF REPLACEMENT AND STRUCTURAL UPGRADES  
4919 VAN BUREN ST  
RSA Project No.: M3108  
Client Project No.: 065006  
BID DOCUMENTS  
December 18, 2023

LEGEND, SCHEDULES, AND ONE-LINE  
**E0.01**





Anchorage  
School District

REVISIONS

No Description Date

ELECTRICAL LOAD CALCULATION

<b>EXISTING SERVICE SIZE:</b>	<b>400 A, 480 V, 3 PH</b>
PEAK KW DEMAND - PAST 12 MO (SEPTEMBER, 2023):	69 KW
ASSUMED POWER FACTOR:	0.85 PF
EXISTING PEAK DEMAND (IN KVA):	81.2 KVA
125% OF PEAK LOAD (NEC 220.87)	101.5 KVA
<b>EXISTING PEAK DEMAND (IN AMPS):</b>	<b>122 A</b>
EXISTING SPARE CAPACITY:	278 A
NEW LOADS ADDED (IN KVA)	
CANOPY LTG	0.3 KVA
HEAT TRACE	1.8 KVA
HEADBOLT HEATERS	4.5 KVA
	<u>        KVA</u>
SUBTOTAL:	6.6 KVA
TOTAL NEC LOADS ADDED:	7 KVA
<b>TOTAL NEC LOADS ADDED (IN AMPS):</b>	<b>8 A</b>
NEW TOTAL NEC DEMAND LOAD:	108 KVA
<b>NEW TOTAL NEC DEMAND LOAD:</b>	<b>130 A</b>
SPARE CAPACITY:	270 A

RESULT: THE EXISTING SERVICE HAS ADEQUATE CAPACITY FOR THE ADDITIONAL LOADS ADDED.

<b>EXISTING PANEL 'M'</b>	<b>100 A, 208 V, 3 PH</b>
PEAK KVA PER 30-DAY MEASUREMENT	8.7 KVA
125% OF PEAK LOAD (NEC 220.87)	10.8 KVA
<b>EXISTING PEAK DEMAND (IN AMPS):</b>	<b>30 A</b>
NEW LOADS ADDED (IN KVA)	
HEADBOLT HEATER #1	1.5 KVA
HEADBOLT HEATER #2	1.5 KVA
HEADBOLT HEATER #3	1.5 KVA
	<u>        KVA</u>
SUBTOTAL:	4.5 KVA
TOTAL NEC LOADS ADDED:	4.5 KVA
<b>TOTAL NEC LOADS ADDED (IN AMPS):</b>	<b>12 A</b>
NEW TOTAL NEC DEMAND LOAD:	15.3 KVA
<b>NEW TOTAL NEC DEMAND LOAD (IN AMPS):</b>	<b>43 A</b>
SPARE CAPACITY:	57 A

RESULT: THE EXISTING PANEL HAS ADEQUATE CAPACITY FOR THE ADDITIONAL LOADS ADDED.

<b>EXISTING PANEL 'P1'</b>	<b>225 A, 480 V, 3 PH</b>
* INSTANTANEOUS READING TAKEN 10/12/2023:	9.3 KVA
SAFETY FACTOR OF 200%	18.6 KVA
<b>EXISTING PEAK DEMAND (IN AMPS):</b>	<b>22 A</b>
NEW LOADS ADDED (IN KVA)	
CANOPY LTS	0.3 KVA
	<u>        KVA</u>
SUBTOTAL:	0.3 KVA
TOTAL LOADS ADDED:	0.3 KVA
<b>TOTAL LOADS ADDED (IN AMPS):</b>	<b>0 A</b>
NEW TOTAL NEC DEMAND LOAD:	18.9 KVA
<b>NEW TOTAL NEC DEMAND LOAD (IN AMPS):</b>	<b>23 A</b>
SPARE CAPACITY:	202 A

\* PANEL P1 IS THE BUILDING LIGHTING PANEL. INSTANTANEOUS READING WAS TAKEN DURING WORK HOURS AND A CONSERVATIVE SAFETY FACTOR IS APPLIED TO COMPENSATE FOR EXTERIOR AND MISC. SMALL ROOMS WHERE LIGHTS WERE NOT ACTIVE AT TIME OF READING.

RESULT: THE EXISTING PANEL HAS ADEQUATE CAPACITY FOR THE ADDITIONAL LOADS ADDED.

<b>EXISTING PANEL 'MH'</b>	<b>100 A, 480 V, 3 PH</b>
NEC CALCULATED DEMAND LOAD	43.9 KVA
<b>EXISTING PEAK DEMAND (IN AMPS):</b>	<b>53 A</b>
NEW LOADS ADDED (IN KVA)	
HEAT TRACE	1.8 KVA
	<u>        KVA</u>
SUBTOTAL:	1.8 KVA
TOTAL NEC LOADS ADDED:	1.8 KVA
<b>TOTAL NEC LOADS ADDED (IN AMPS):</b>	<b>2 A</b>
NEW TOTAL NEC DEMAND LOAD:	1.8 KVA
<b>NEW TOTAL NEC DEMAND LOAD (IN AMPS):</b>	<b>2 A</b>
SPARE CAPACITY:	98 A

RESULT: THE EXISTING PANEL HAS ADEQUATE CAPACITY FOR THE ADDITIONAL LOADS ADDED.

RSA

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Engineers

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PURCHASING/WAREHOUSE  
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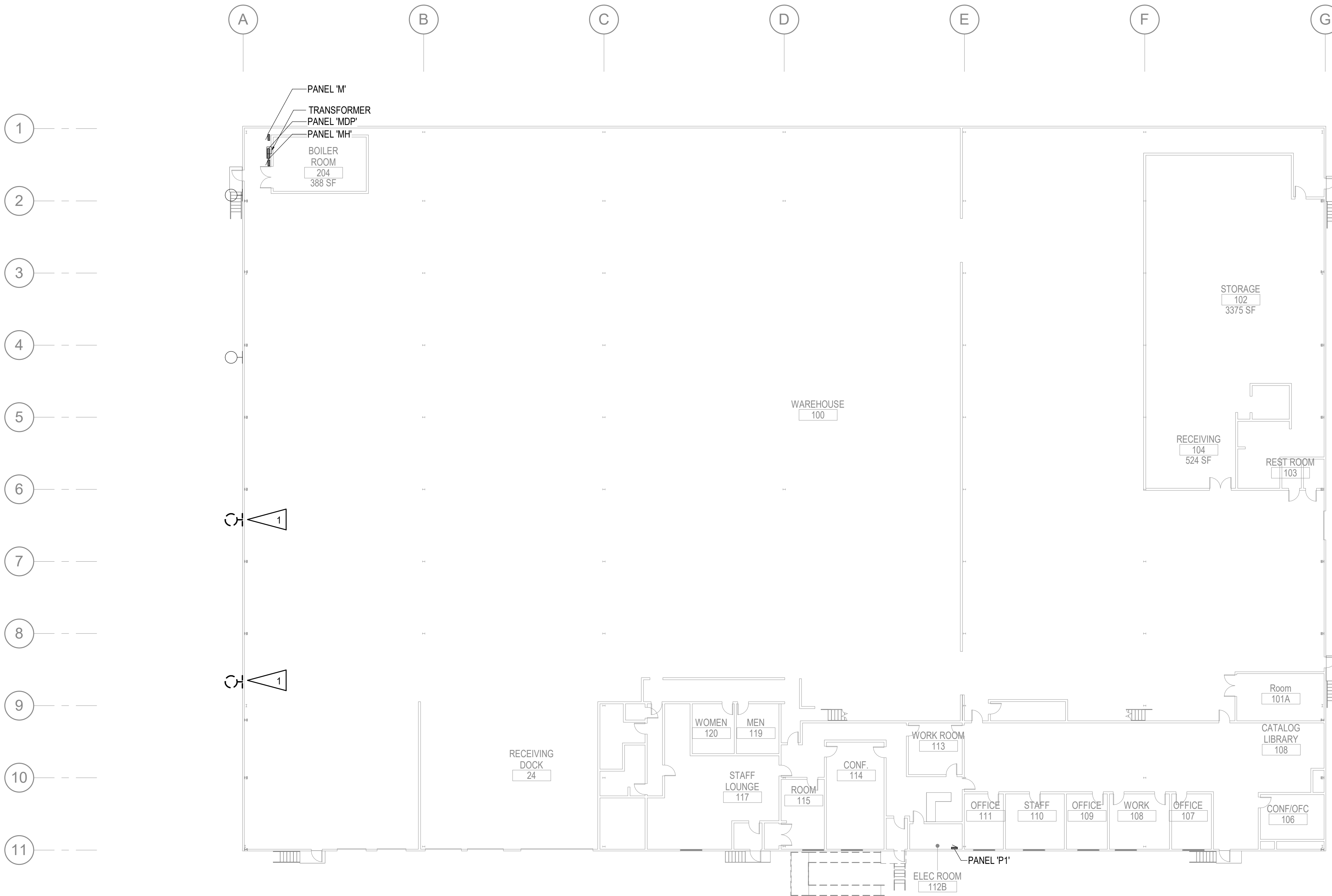
4919 VAN BUREN ST

RSA Project No.: M3108  
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BID DOCUMENTS  
December 18, 2023

ELECTRICAL  
LOAD  
CALCULATIONS  
**E0.02**

NOTIFICATION OF POTENTIAL HAZARDS:  
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- B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- C. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

**SHEET NOTES:**

- 1. DEMOLISH LIGHT FIXTURE. MAINTAIN CIRCUIT CONTINUITY FOR EXISTING TO REMAIN FIXTURES. PROVIDE WEATHER PROOF COVER PLATE.



Anchorage School District

**REVISIONS**

No	Description	Date

**1 ELECTRICAL DEMOLITION FIRST FLOOR PLAN**  
1/16" = 1'-0"



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**PURCHASING/WAREHOUSE ROOF REPLACEMENT AND STRUCTURAL UPGRADES**  
4919 VAN BUREN ST

RSA Project No.: M3108  
Client Project No.: 065006

BID DOCUMENTS  
December 18, 2023

**ELECTRICAL DEMO FIRST FLOOR PLAN E1.01**



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Anchorage School District

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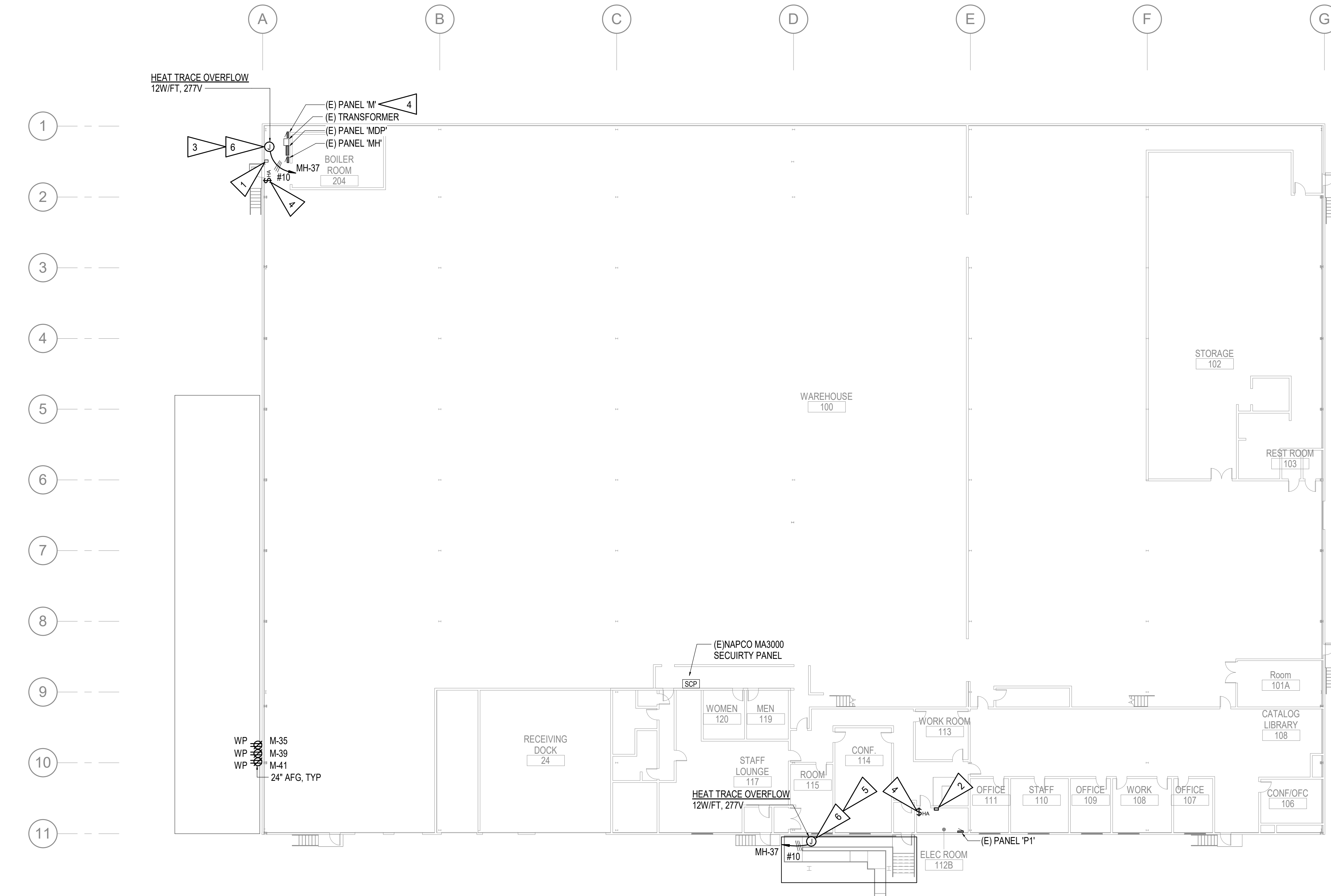
No	Description	Date

GENERAL NOTES:

- A. COORDINATE WITH OWNER TO REMOVE LOOSE STORAGE MATERIAL FROM AREA OF WORK.

SHEET NOTES:

1. PROVIDE CONTACTOR FOR HEAT TRACE. SEE 1/E0.01 FOR DETAIL. COORDINATE WITH ASD TO REMOVE STORAGE BOXES FROM AREA OF WORK.
2. PROVIDE LIGHTING INVERTER FOR SUPPLYING EMERGENCY LIGHT FIXTURE IN NEARBY CANOPY, SHOWN ON 1/E2.02. SEE FIXTURE SCHEDULE. SEE 2/E0.01 FOR DETAIL.
3. INSTALL HEAT TRACE IN OVERFLOW DRAINS. SEE MECHANICAL PLANS FOR INSTALLATION DETAIL.
4. CANOPY LIGHTING CONTROL, SEE 3/E0.01 AND 2/E0.01 FOR DETAILS.
5. INSTALL HEAT TRACE IN ROOF DRAIN DOWN TO DRY WELL. SEE MECHANICAL PLANS FOR DETAIL AND CIVIL PLANS FOR DRY WELL LOCATION.
6. ROUTE HEAT TRACE CIRCUIT THROUGH CONTACTOR. SEE 1/E0.01 FOR DETAIL.



Mechanical and Electrical Consulting Engineers

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Anchorage, AK 99503  
(907)276-0521  
Corporate No.: AECC542



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PURCHASING/WAREHOUSE ROOF REPLACEMENT AND STRUCTURAL UPGRADES  
4919 VAN BUREN ST

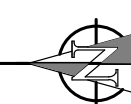
RSA Project No.: M3108  
Client Project No.: 065006

BID DOCUMENTS  
December 18, 2023

ELECTRICAL REMODEL FIRST FLOOR PLAN  
**E2.01**

**1** ELECTRICAL REMODEL FIRST FLOOR PLAN

1/16" = 1'-0"



NOTIFICATION OF POTENTIAL HAZARDS:  
Asbestos, lead, and other hazardous materials are present in the building and may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on Architectural, Structural, Mechanical, and Electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. This notification is provided in accordance with EPA and OSHA requirements.



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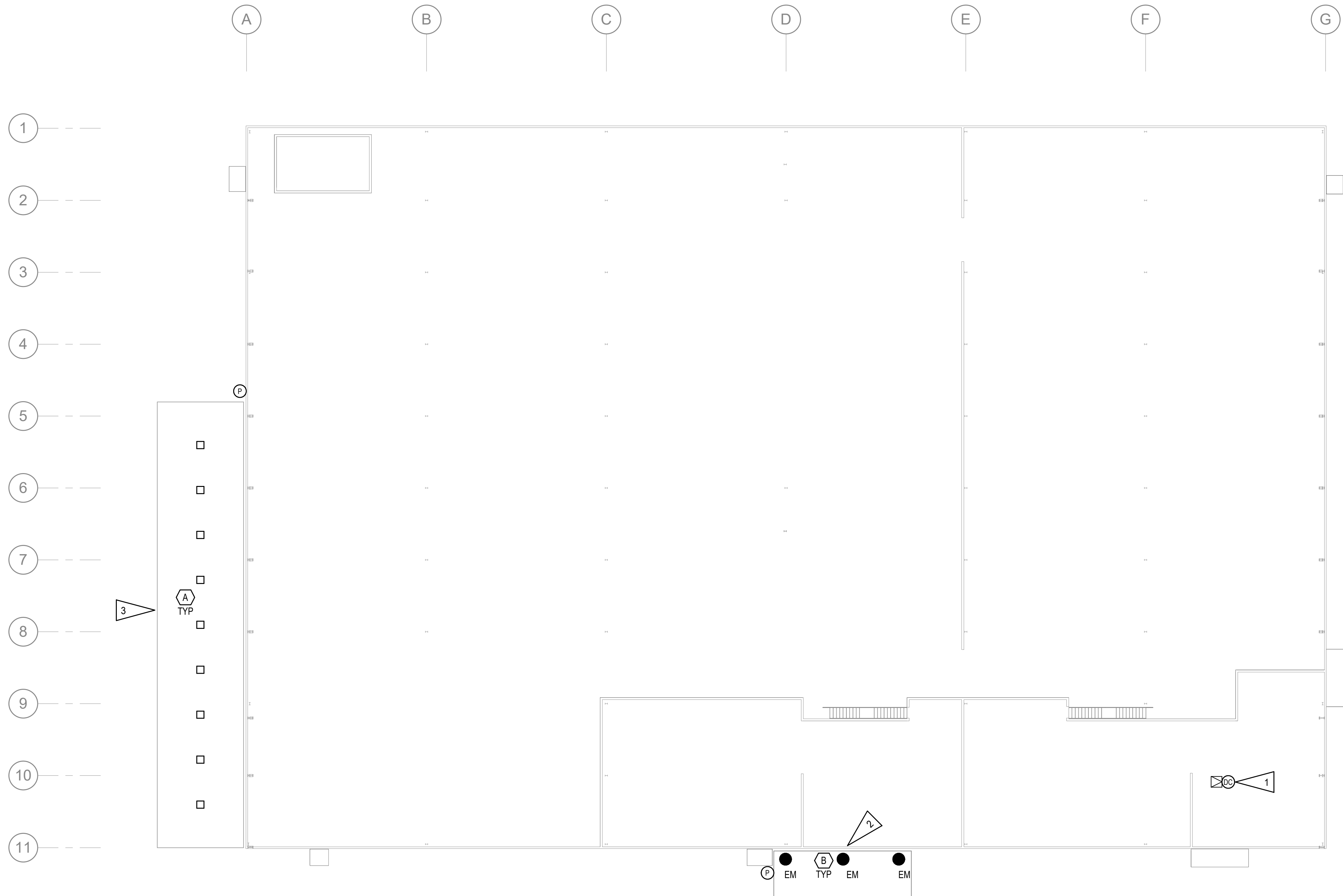
No Description Date

GENERAL NOTES:

- A. CONNECT ALL NEW CANOPY LIGHTING TO SPARE CIRCUIT P1-32 IN ROOM 116.

SHEET NOTES:

- 1. PROVIDE NEW DOOR CONTACT FOR MONITORING OF ROOF ACCESS HATCH. CONNECT TO EXISTING SECURITY PANEL. SEE E2.01 FOR PANEL LOCATION. PROVIDE NEW ZONE FOR ROOF HATCH AND REQUIRED PROGRAMMING.
- 2. SEE 2/E0.01 FOR CANOPY LIGHTING DETAIL.
- 3. SEE 3/E0.01 FOR CANOPY LIGHTING DETAIL.



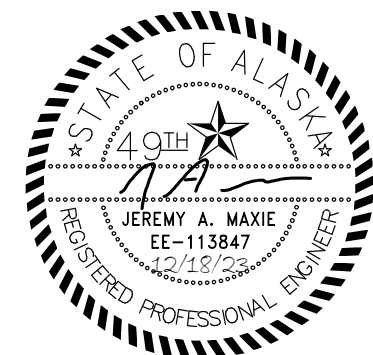
1 ELECTRICAL REMODEL SECOND FLOOR

1/16" = 1'-0"



Mechanical and Electrical Consulting Engineers

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PURCHASING/WAREHOUSE ROOF REPLACEMENT AND STRUCTURAL UPGRADES

4919 VAN BUREN ST

RSA Project No.: M3108 Client Project No.: 065006

BID DOCUMENTS December 18, 2023

ELECTRICAL REMODEL SECOND FLOOR E2.02

NOTIFICATION OF POTENTIAL HAZARDS: Asbestos, lead, and other hazardous materials are present in the building and may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on Architectural, Structural, Mechanical, and Electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. This notification is provided in accordance with EPA and OSHA requirements.



EXISTING PANEL 'M'															
MFR/MODEL: CUTLER HAMMER PRL-1A				VOLTS: 120/208V,3PH,4W				ENCLOSURE: NEMA 1				100 A			
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	VOLT-AMPS			TYPE	SERVICE	AMPS	POLE	CIRC	NOTE	
						A	B	C							
	1	1	20	LTS FUEL TANK					PANEL G		60	3	2		
	3	1	20	RECP EXTERIOR					AAA		60	3	4		
	5	1	20	FUEL TANK PANEL					AAA		60	3	6		
	7	1	20	DDC PANEL					DAY TANK		20	1	8		
	9	1	20	SPARE					HEATER PANEL		20	1	10		
	11	1	20	OUTSIDE LTS (RAILROAD)					BOILER RECP		20	1	12		
	13	1	20	EF-3					BOILER RM LTS		20	1	14		
	15	1	20	SPARE					SF-1		20	1	16		
	17	1	20	CF-1					SPACE		-	1	18		
	19	1	20	SUMP PUMP					UNKNOWN UH-1		15	3	20		
	21	2	20	MGO SOUTH					AAA		15	3	22		
	23	2	20	AA					AAA		15	3	24		
	25	3	15	UNKNOWN					UNKNOWN UH-2		15	3	26		
	27	3	15	AAA					AAA		15	3	28		
	29	3	15	AAA					AAA		15	3	30		
	31	2	20	MGO NORTH					UNKNOWN UH-2		15	3	32		
	33	2	20	AA					AAA		15	3	34		
a	35	1	20	HEADBOLT HEATER #1	RECP			1,500	AAA		15	3	36		
	37	1	20	GATE RECP					UNKNOWN UH-2		15	3	38		
a	39	1	20	HEADBOLT HEATER #2	RECP			1,500	AAA		15	3	40		
a	41	1	20	HEADBOLT HEATER #3	RECP			1,500	AAA		15	3	42		

PANEL NOTES:  
a PROVIDE NEW BREAKER FOR NEW LOAD.

EXISTING PANEL 'P1'															
MFR/MODEL: GENERAL ELECTRIC NHB				VOLTS: 277/480V,3PH,4W				ENCLOSURE: NEMA 1				225 A			
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	VOLT-AMPS			TYPE	SERVICE	AMPS	POLE	CIRC	NOTE	
						A	B	C							
	1	1	20	ROW 4 EM SEC											
	3	1	20	ROW 2 SEC											
	5	1	20	ROW 1 SEC											
	7	1	20	ROW 16 MAIN											
	9	1	20	ROW 14 MAIN											
	11	1	20	ROW 10 MAIN											
	13	1	20	ROW 12 MAIN											
	15	1	20	ROW 6 MAIN											
	17	1	20	ROW 4 EM											
	19	1	20	ROW 2 MAIN											
	21	1	20	ROW 8 MAIN											
	23	1	20	TRUCK BAY											
	25	1	20	RECORDS AREA EM											
	27	1	20	NORTH END RECORDS											
	29	1	20	SOUTH END RECORDS											
	31	1	20	OPERATION/OFFICES						276					
	33	1	20	EM + EXITS											
	35	1	20	SPARE											
	37	1	20	SPARE											
	39	1	20	SPARE											
	41	1	20	UNKNOWN											

PANEL NOTES:  
a NEW LOAD ON EXISTING SPARE BREAKER



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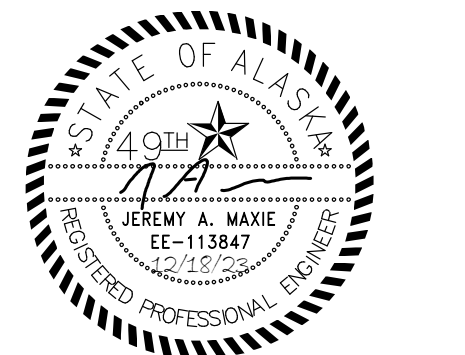
EXISTING PANEL 'MH'															
MFR/MODEL: CUTLER-HAMMER PRL2A				VOLTS: 277/480V,3PH,4W				ENCLOSURE: NEMA 1				100 A			
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	VOLT-AMPS			TYPE	SERVICE	AMPS	POLE	CIRC	NOTE	
						A	B	C							
	1	3	15	BOILER B-2 (2HP)	MOTR	942	3,048			P-1A (7.5 HP)	20	3	2		
	3	3	15	AAA	MOTR			942	3,048	AAA	20	3	4		
	5	3	15	AAA	MOTR					942	3,048	20	3	6	
	7	3	15	BOILER B1 (1.5 HP)	MOTR	582	3,048			P-1B (7.5 HP)	20	3	8		
	9	3	15	AAA	MOTR			582	3,048	AAA	20	3	10		
	11	3	15	AAA	MOTR			582	3,048	AAA	20	3	12		
	13	3	15	EF-2 (2 HP)	MOTR	942	942			P-2 (2 HP)	15	3	14		
	15	3	15	AAA	MOTR			942	942	AAA	15	3	16		
	17	3	15	AAA	MOTR					942	942	15	3	18	
	19	3	15	AHU 3 (5HP)	MOTR	2,106	1,330			P-3 (2HP)	15	3	20		
	21	3	15	AAA	MOTR			2,106	1,330	AAA	15	3	22		
	23	3	15	AAA	MOTR			2,106	1,330	AAA	15	3	24		
	25	3	15	SPARE			360			P-31 3/4 HP	15	3	26		
	27	3	15	AAA	MOTR				360	AAA	15	3	28		
	29	3	15	AAA	MOTR					360	15	3	30		
	31	3	15	SPARE			582			SP-1 (1HP)	15	3	32		
	33	3	15	AAA	MOTR				582	AAA	15	3	34		
	35	3	15	AAA	MOTR					582	15	3	36		
a	37	1	20	HEAT TRACE	HEAT	1,800				SPARE	20	1	38		
	39	1	-	SPACE						SPACE			1	40	
	41	1	-	SPACE						SPACE			1	42	

TOTAL V-A: 15,684 13,884 13,884 43,452 VA  
 TOTAL AMPS: 57 50 50 52 A  
 A.I.C. RATING: 10,000

TOTAL CONNECTED LOAD IN KVA:	LTG	REC	MOTR	LG MTR	MISC	KIT	HEAT	SPEC	TOTAL	AMPS
DEMAND LOAD IN KVA:	0.00	0.00	41.65	2.29	0.00	0.00	1.80	0.00	43.5 KVA	52 A
	0.00	0.00	41.65	2.29	0.00	0.00	2.25	0.00	46.2 KVA	56 A

PANEL NOTES:  
a PROVIDE LOCKABLE EPD BREAKER IN THE "OFF" POSITION FOR NEW LOAD

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 4919 VAN BUREN ST  
 RSA Project No.: M3108  
 Client Project No.: 065006  
 BID DOCUMENTS  
 December 18, 2023

ELECTRICAL PANEL SCHEDULES **E3.01**

NOTIFICATION OF POTENTIAL HAZARDS:  
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## GENERAL NOTES

- THE HAZARDS ABATEMENT PORTION OF THIS PROJECT INCLUDES THE DISTURBANCE AND/OR REMOVAL AND DISPOSAL OF SELECTED ASBESTOS-CONTAINING MATERIALS, POLYCHLORINATED BIPHENYL (PCB) CONTAINING LIGHT BALLASTS, MERCURY-CONTAINING MATERIALS, LEAD-CONTAINING MATERIALS AND ITEMS CONTAINING RADIOACTIVE COMPOUNDS. THE PURPOSE OF THE HAZARDS ABATEMENT PORTION OF THE WORK IS TO REMOVE THESE MATERIALS FROM ASD PURCHASING WAREHOUSE ROOF AND INTERIOR SEISMIC UPGRADES PRIOR TO RENOVATION SO THAT PERSONNEL CAN SAFELY PERFORM THEIR WORK WITHOUT CREATING HAZARDS TO HEALTH OR THE ENVIRONMENT.
- THE WORK DOES NOT INCLUDE REMOVAL OF ALL HAZARDOUS MATERIALS IN THE BUILDING. REMOVE HAZARDOUS MATERIALS COORDINATING WITH OTHER TRADES, AS SPECIFIED AND/OR INDICATED ON THE DRAWINGS, OUTLINED IN THE SPECIFICATIONS, AND AS REQUIRED TO COMPLETE THE WORK. "REMOVAL" INCLUDES PROPER HANDLING, PACKAGING AND DISPOSAL OF MATERIALS REMOVED.
- POTENTIALLY HAZARDOUS MATERIALS SUCH AS MERCURY-CONTAINING LAMPS AND THERMOSTATS, METALLIC LEAD ITEMS, REFRIGERANTS, HEATING SYSTEM GLYCOL AND PCB CONTAINING BALLASTS AFFECTED BY THE PROJECT ARE TO BE REMOVED AND DISPOSED OF PROPERLY. REFER TO SPECIFICATIONS AND THE CONTRACTOR'S APPROVED WORK PLAN FOR HAZARDOUS MATERIALS REMOVAL, DISTURBANCE, CLEARANCE, AND DISPOSAL PROCEDURES.
- LEAD-BASED PAINTS (PAINT CONTAINING EQUAL TO OR GREATER THAN 1.0 mg/cm<sup>2</sup>) WERE IDENTIFIED DURING THE LIMITED LEAD TESTING SHOWN IN THE HAZMAT SURVEY, AND LEAD-BASED PAINTS MAY BE PRESENT AT OTHER LOCATIONS. LOW LEVELS OF LEAD FOUND BY XRF TESTING DOES NOT MEAN THE PAINTS ARE FREE OF LEAD, THE PAINTS MAY CONTAIN MEASURABLE AMOUNTS OF LEAD. LEAD-CONTAINING MATERIALS INCLUDE ALL PAINTED SURFACES, CERAMIC TILES, AND METALLIC LEAD, AS WELL AS LEAD-CONTAINING DUSTS. THIS IS NOT A LEAD ABATEMENT PROJECT, AND ALL TRADES WILL LIKELY DISTURB SOME LEAD-CONTAINING MATERIALS. CONTROL WORKER EXPOSURES USING LEAD-SAFE WORK PRACTICES AND CHOICE OF MEANS AND METHODS OF CONDUCTING THE WORK TO COMPLY WITH 29 CFR 1926.62 AND TO AVOID CONTAMINATION OF THE WORK AREA AND SITE.
- PERFORM INITIAL AIR MONITORING TESTS ON ALL TASKS THAT DISTURB ASBESTOS OR LEAD-CONTAINING MATERIALS, DUST OR PAINT TO DETERMINE THE APPROPRIATE WORKER AND SITE PROTECTION PROCEDURES REQUIRED. DUE TO THE AGE OF THE BUILDINGS, METALLIC LEAD IS ASSUMED PRESENT IN BELL AND SPIGOT PIPE JOINTS AND IN SOLDER ON COPPER PIPES.
- SETTLED AND CONCEALED DUST ON ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL COMPONENTS THROUGHOUT THE PROJECT AREA(S) IS ASSUMED TO CONTAIN REGULATED AIR CONTAMINANTS INCLUDING ASBESTOS AND LEAD. WORK OF ALL TRADES MAY INCLUDE DISTURBANCE OF ASBESTOS AND LEAD AND MAY RESULT IN WORKER EXPOSURE TO ASBESTOS AND LEAD ABOVE THE OSHA ACTION LEVEL OR PERMISSIBLE EXPOSURE LIMITS FOR ASBESTOS OR LEAD IF PROPER WORK PRACTICES AND/OR ENGINEERING CONTROLS ARE NOT USED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE APPROPRIATE WORKER AND SITE PROTECTION PROCEDURES SO THAT THEIR WORKERS ARE NOT EXPOSED ABOVE THOSE LIMITS AND THAT WORK IS PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. THE PRESENCE OF ASBESTOS OR LEAD IN DUSTS DOES NOT NECESSARILY MAKE THEM A HAZARD TO WORKERS OR A HAZARDOUS WASTE.
- THE CONTRACTOR'S INDEPENDENT LABORATORY SHALL PROVIDE ALL INSPECTIONS, MONITORING, SAMPLING, ANALYSES AND REPORTING SERVICES AS SPECIFIED. CLEARANCE AIR MONITORING SHALL BE CONDUCTED BY THE OWNER'S REPRESENTATIVE IF THE BUILDING IS TO BE ENTERED BY NON-ASBESTOS WORKERS AFTER ASBESTOS ABATEMENT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON SAMPLING.
- LOCATIONS OF MATERIALS SHOWN ON THESE DRAWINGS ARE SCHEMATIC AND APPROXIMATE. FIELD VERIFY AND COORDINATE CONSTRUCTION DETAILS, DIMENSIONS, WORK CONDITIONS, AND LOCATIONS WHICH WILL AFFECT THE REMOVAL OR DISTURBANCE OF HAZARDOUS MATERIALS. HAZARDOUS MATERIALS MAY HAVE COME LOOSE AND FALLEN ONTO FLOORS, CEILINGS, CHASES, OR WALL CAVITIES. THE QUANTITIES SHOWN IN THE SHEET SUMMARY ARE APPROXIMATE AND MAY VARY DEPENDING ON THE CONTRACTOR'S MEANS AND METHODS. REQUIRE ALL TRADES TO COORDINATE WITH EACH OTHER AND TO CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. SEE DRAWINGS OF ALL DISCIPLINES FOR ADDITIONAL INFORMATION RELATING TO HAZARDOUS MATERIALS. IMMEDIATELY COMMUNICATE ALL DISCREPANCIES IN QUANTITIES TO THE OWNER. REFER TO HAZARDOUS MATERIALS ASSESSMENT FOR MORE INFORMATION ABOUT POTENTIALLY HAZARDOUS MATERIALS THAT ARE NOT SCHEDULED FOR DISTURBANCE BY THIS PROJECT. FURNISH ALL WORK AND MATERIALS REQUIRED FOR A FINISHED PROJECT AS DESCRIBED IN THE CONTRACT DOCUMENTS. QUANTITIES LISTED WITH A \* MAY VARY DEPENDING ON THE CONTRACTOR'S MEANS AND METHODS. CONTRACTOR'S MEANS AND METHODS RESULTING IN ADDITIONAL MATERIALS REMOVAL SHALL NOT RESULT IN ADDED CONTRACT COSTS TO THE OWNER.
- PROVIDE ALL WASTE TESTING, PACKAGING, HANDLING, TRANSPORTATION AND DISPOSAL. ALL COSTS FOR DISPOSAL SHALL BE BORNE BY THE CONTRACTOR. PERFORM TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) TEST(S) OF WASTE(S) CONTAINING LEAD OR PAINTED WITH LEAD-CONTAINING PAINT TO CHARACTERIZE THE WASTE(S) AS HAZARDOUS OR NON-HAZARDOUS PRIOR TO DISPOSAL. PERFORM TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) TEST(S) OF HEAT TRANSFER FLUIDS IN HEATING SYSTEM TO CHARACTERIZE THE WASTE(S) AS HAZARDOUS OR NON-HAZARDOUS PRIOR TO DISPOSAL. COORDINATE REQUIREMENTS OF LANDFILL(S) REGARDING MATERIALS PACKAGING, HANDLING, AND DISPOSAL REQUIREMENTS PRIOR TO SUBMITTING BID.

## SHEET NOTES

HAZARDS ABATEMENT DRAWINGS DO NOT SHOW ALL DETAILS OF WORK REQUIRED. ALL TRADES SHALL EXAMINE DRAWINGS OF OTHER TRADES AND COORDINATE WITH EACH OTHER TO DETERMINE EXTENT, TIMING AND LOCATIONS OF MATERIALS AFFECTED BY THE PROJECT.

- CREATE PENETRATIONS IN GYPSUM WALL BOARD WITH ASBESTOS-CONTAINING JOINT COMPOUND AS REQUIRED TO COMPLETE THE REVISED ROOF DRAIN PIPING WORK AND STRUCTURAL RENOVATIONS. APPLY BRIDGING ENCAPSULANT TO CUT AND BROKEN EDGES. EXACT EXTENT OF REMOVAL NOT SHOWN HERE, BUT MAY INCLUDE BOTH WALLS AND CEILINGS, COORDINATE WITH OTHERS.
- THE UPPER LAYERS OF ROOFING DID NOT CONTAIN ASBESTOS. THERE IS AN ASBESTOS-CONTAINING BUILT-UP ROOFING/VAPOR BARRIER APPLIED OVER A PLYWOOD SUBSTRATE OVER THE ORIGINAL METAL ROOFING. THE BUILT-UP ROOFING/VAPOR BARRIER IS SCHEDULED TO REMAIN, BUT THE BOTTOM LAYER OF INSULATION IS ADHERED TO THE ASBESTOS-CONTAINING BUILT-UP ROOFING (WHICH IS SCHEDULED TO REMAIN) AND REMOVAL OF THE INSULATION WILL DISTURB THE ASBESTOS-CONTAINING BUILT-UP ROOFING, AND REQUIRE THAT THE BOTTOM LAYER OF INSULATION WILL NEED TO BE DISPOSED OF AS AN ASBESTOS-CONTAINING MATERIAL. CONTROL WORKER EXPOSURES TO REMAINING BUILT-UP ROOFING/VAPOR BARRIER DURING ROOFING REPLACEMENT.
- REMOVE ASBESTOS-CONTAINING PATCHING TARS AT SCUPPERS, VTRS, ROOF DRAIN BOWLS, PENETRATIONS, AND AT LEAKING AREAS, ETC.
- REMOVE METALLIC LEAD VTR FLASHINGS.
- REMOVE OR RELOCATE FLUORESCENT LIGHT FIXTURES WITH MERCURY-CONTAINING LIGHT TUBES IF NECESSARY TO COMPLETE THE WORK.
- REMOVE OR RELOCATE THERMOSTATS, SWITCHES AND OTHER ELECTRICAL DEVICES CONTAINING MERCURY IF NECESSARY TO COMPLETE THE WORK.
- REMOVE OR RELOCATE HID LIGHT FIXTURES WITH ASSUMED PCB-CONTAINING BALLASTS AND MERCURY-CONTAINING HIGH INTENSITY DISCHARGE LAMPS IF NECESSARY TO COMPLETE THE WORK.
- REMOVE OR RELOCATE EXIT SIGNS, EMERGENCY LIGHTS, FIRE ALARM SYSTEM, OR SMOKE DETECTORS WITH UNIVERSAL WASTE BATTERIES. RECYCLE OR PROPERLY DISPOSE OF BATTERIES IF NECESSARY TO REMOVE.
- REMOVE ASBESTOS-CONTAINING SHEET VINYL FLOORING IF NECESSARY TO COMPLETE THE WORK.
- REMOVE STAINLESS STEEL SINKS WITH ASBESTOS-CONTAINING UNDERCOATINGS IF NECESSARY TO COMPLETE THE WORK.
- REMOVE BOILER OR FURNACE WITH ASBESTOS-CONTAINING GASKETS AND SEALANTS IF NECESSARY TO COMPLETE THE WORK.
- REMOVE ASBESTOS-CONTAINING FLANGE GASKETS AND VALVE PACKINGS IF NECESSARY TO COMPLETE THE WORK.

## ESTIMATED QUANTITIES TO BE REMOVED (BASE BID)

INCIDENTAL QUANTITIES OF MATERIALS, INCLUDING LEAD-CONTAINING MATERIALS, THAT ARE REQUIRED TO BE REMOVED TO COMPLETE THE WORK, BUT OTHERWISE ARE TO REMAIN, ARE NOT INCLUDED HERE, AS THEY WILL VARY DEPENDING ON THE CONTRACTOR'S CHOICE OF MEANS AND METHODS.

20*	SQUARE FEET ALLOWANCE OF GYPSUM WALLBOARD WITH ASBESTOS-CONTAINING JOINT COMPOUND
63,525	SQUARE FEET OF INSULATION CONTAMINATED BY ASBESTOS-CONTAINING BUILT-UP ROOFING.
200*	SQUARE FEET OF ASBESTOS-CONTAINING PATCHING TARS AT SCUPPERS, OTHER PENETRATIONS, AND LEAKING AREAS
0*	SQUARE FEET OF ASBESTOS-CONTAINING SHEET VINYL FLOORING
0*	EACH STAINLESS STEEL SINKS WITH ASBESTOS-CONTAINING UNDERCOATING
0*	EACH BOILER OR FURNACE WITH ASBESTOS-CONTAINING GASKETS AND SEALANTS
0*	LOT OF ASBESTOS-CONTAINING FLANGE GASKETS AND VALVE PACKINGS
3	EACH METALLIC LEAD FLASHINGS AT VTRS
0*	MERCURY-CONTAINING FLUORESCENT LAMPS AND HIGH INTENSITY DISCHARGE LAMPS
9*	SELF ILLUMINATING EXIT RADIOACTIVE SIGNS
0*	EMERGENCY LIGHTS OR OTHER EQUIPMENT WITH UNIVERSAL WASTE BATTERIES
0*	MERCURY-CONTAINING THERMOSTATS

## ESTIMATED QUANTITIES TO BE REMOVED (ADDITIVE ALTERNATE #1)

INCIDENTAL QUANTITIES OF MATERIALS, INCLUDING LEAD-CONTAINING MATERIALS, THAT ARE REQUIRED TO BE REMOVED TO COMPLETE THE WORK, BUT OTHERWISE ARE TO REMAIN, ARE NOT INCLUDED HERE, AS THEY WILL VARY DEPENDING ON THE CONTRACTOR'S CHOICE OF MEANS AND METHODS.

NO HAZARDOUS MATERIALS ARE ANTICIPATED TO BE DISTURBED FOR ADDITIVE ALTERNATE #1

## ESTIMATED QUANTITIES TO BE REMOVED (ADDITIVE ALTERNATE #2)

INCIDENTAL QUANTITIES OF MATERIALS, INCLUDING LEAD-CONTAINING MATERIALS, THAT ARE REQUIRED TO BE REMOVED TO COMPLETE THE WORK, BUT OTHERWISE ARE TO REMAIN, ARE NOT INCLUDED HERE, AS THEY WILL VARY DEPENDING ON THE CONTRACTOR'S CHOICE OF MEANS AND METHODS.

NO HAZARDOUS MATERIALS ARE ANTICIPATED TO BE DISTURBED FOR ADDITIVE ALTERNATE #2



Anchorage  
School District

## REVISIONS

No Description Date



BDS, Inc. Entity #25796D



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W: www.bdsak.com

Drawn by: JHL  
Checked by: RAF

PURCHASING/WAREHOUSE  
ROOF REPLACEMENT AND  
STRUCTURAL UPGRADES  
4919 VAN BUREN ST

BDS Project No.: 023003  
Client Project No.: 065006

BID DOCUMENTS  
DECEMBER 13, 2023

HAZARDS  
ABATEMENT -  
GENERAL NOTES  
**H0.01**

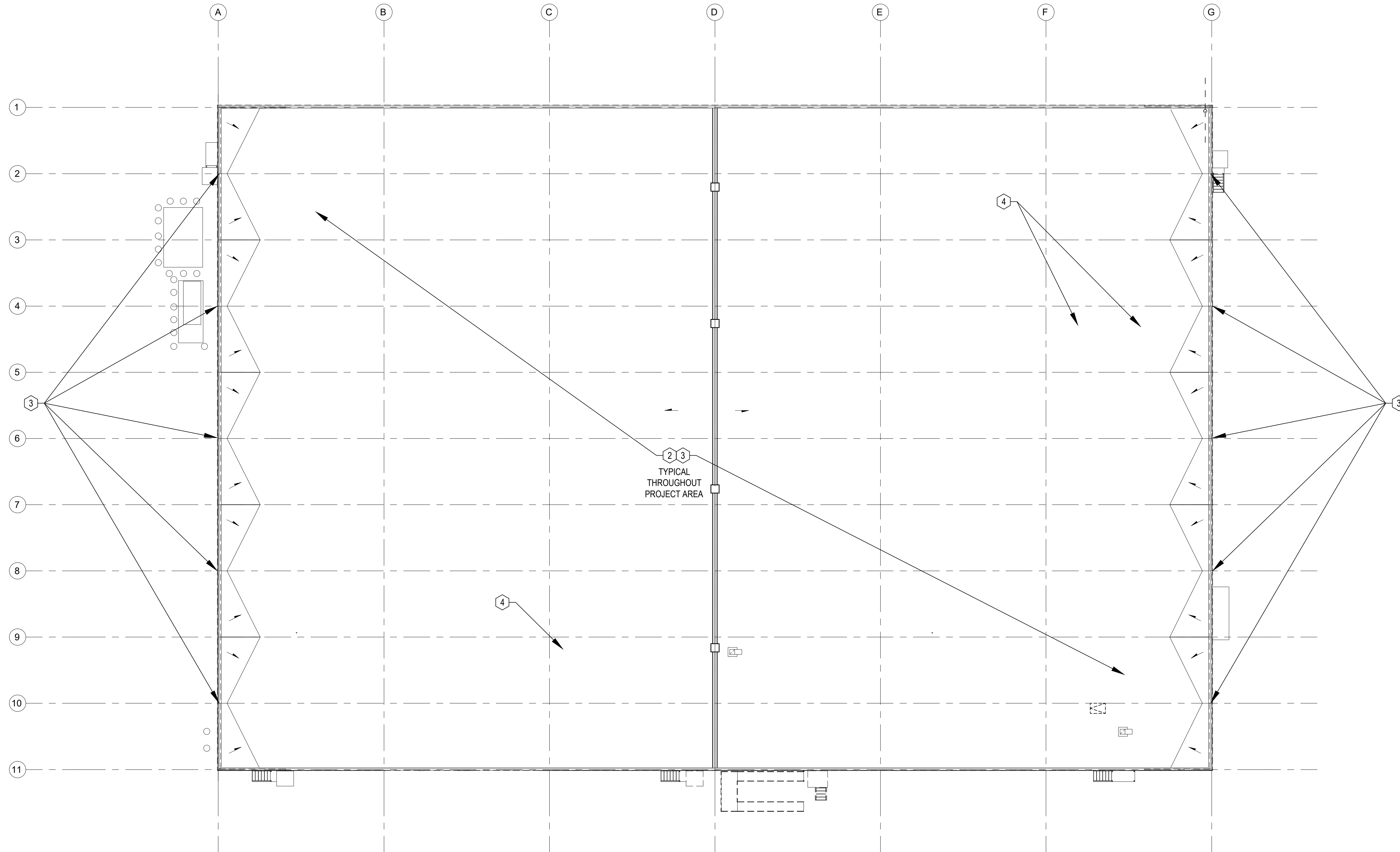
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SHEET NOTES

HAZARDS ABATEMENT DRAWINGS DO NOT SHOW ALL DETAILS OF WORK REQUIRED. ALL TRADES SHALL EXAMINE DRAWINGS OF OTHER TRADES AND COORDINATE WITH EACH OTHER TO DETERMINE EXTENT, TIMING AND LOCATIONS OF MATERIALS AFFECTED BY THE PROJECT.

SEE SHEET H0.01 FOR SHEET NOTES



Anchorage  
School District

REVISIONS

No	Description	Date

**EHS ALASKA**  
INCORPORATED  
ENGINEERING, HEALTH &  
SAFETY CONSULTANTS  
11901 Business Blvd, Suite 208,  
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W: www.bdsak.com

Drawn by: JHL  
Checked by: RAF

**PURCHASING/WAREHOUSE  
ROOF REPLACEMENT AND  
STRUCTURAL UPGRADES**  
4919 VAN BUREN ST

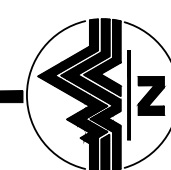
BDS Project No.: 023003  
Client Project No.: 065006

BID DOCUMENTS  
DECEMBER 13, 2023

**HAZARDS  
ABATEMENT -  
ROOF PLAN  
H1.01**

**NOTIFICATION OF POTENTIAL HAZARDS:**  
Asbestos, lead, and other hazardous materials are present in the building and may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on Architectural, Structural, Mechanical, and Electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. This notification is provided in accordance with EPA and OSHA requirements.

1  
H1.0 HAZARDS ABATEMENT - ROOF  
FULL SIZE: 1/16" = 1'-0" HALF SIZE: 1/8" = 1'-0"








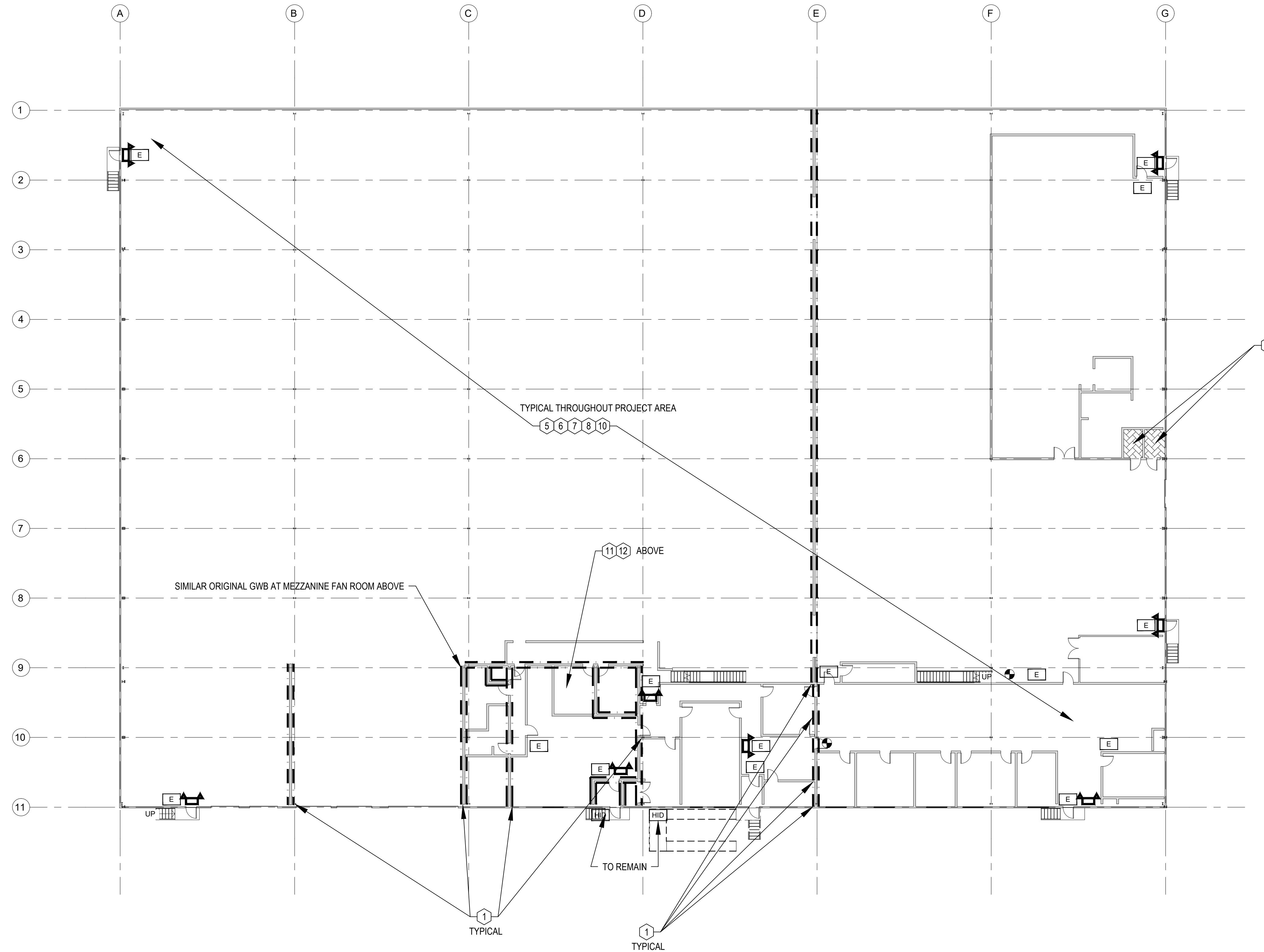
**SHEET NOTES**

HAZARDS ABATEMENT DRAWINGS DO NOT SHOW ALL DETAILS OF WORK REQUIRED. ALL TRADES SHALL EXAMINE DRAWINGS OF OTHER TRADES AND COORDINATE WITH EACH OTHER TO DETERMINE EXTENT, TIMING AND LOCATIONS OF MATERIALS AFFECTED BY THE PROJECT.

SEE SHEET H0.01 FOR SHEET NOTES

**LEGEND**

-  LOCATION OF WALLS WITH ASBESTOS-CONTAINING JOINT COMPOUND, DISTURB AS NECESSARY
-  LOCATION OF MERCURY CONTAINING HIGH INTENSITY DISCHARGE LAMP WITH ASSUMED PCB BALLAST
-  LOCATION OF EMERGENCY LIGHTS OR OTHER BATTERY DEVICE WITH UNIVERSAL WASTE BATTERIES
-  LOCATION OF RADIOACTIVE EXIT SIGN
-  LOCATION OF EXIT SIGN WITH UNIVERSAL WASTE BATTERIES



**Anchorage  
School District**

**REVISIONS**

No	Description	Date

**EHS ALASKA**  
INCORPORATED  
ENGINEERING, HEALTH &  
SAFETY CONSULTANTS  
11901 Business Blvd, Suite 208,  
Eagle River, AK 99577-7701  
PH: 907-684-1283 FAX: 907-964-1382  
LICENSE# ABC0689 www.ehs-alaska.com



BDS, Inc. Entity #25796D  
**BDS**  
ARCHITECTS  
Architecture | Planning | Roof Technology

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ROOF REPLACEMENT AND  
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4919 VAN BUREN ST

BDS Project No.: 023003  
Client Project No.: 065006

BID DOCUMENTS  
DECEMBER 13, 2023

**HAZARDS  
ABATEMENT -  
FIRST FLOOR PLAN  
H1.02**

**NOTIFICATION OF POTENTIAL HAZARDS:**  
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**1 HAZARDS ABATEMENT - FIRST FLOOR PLAN**

H1.0 FULL SIZE: 1/16" = 1'-0" HALF SIZE: 1/8" = 1'-0"

