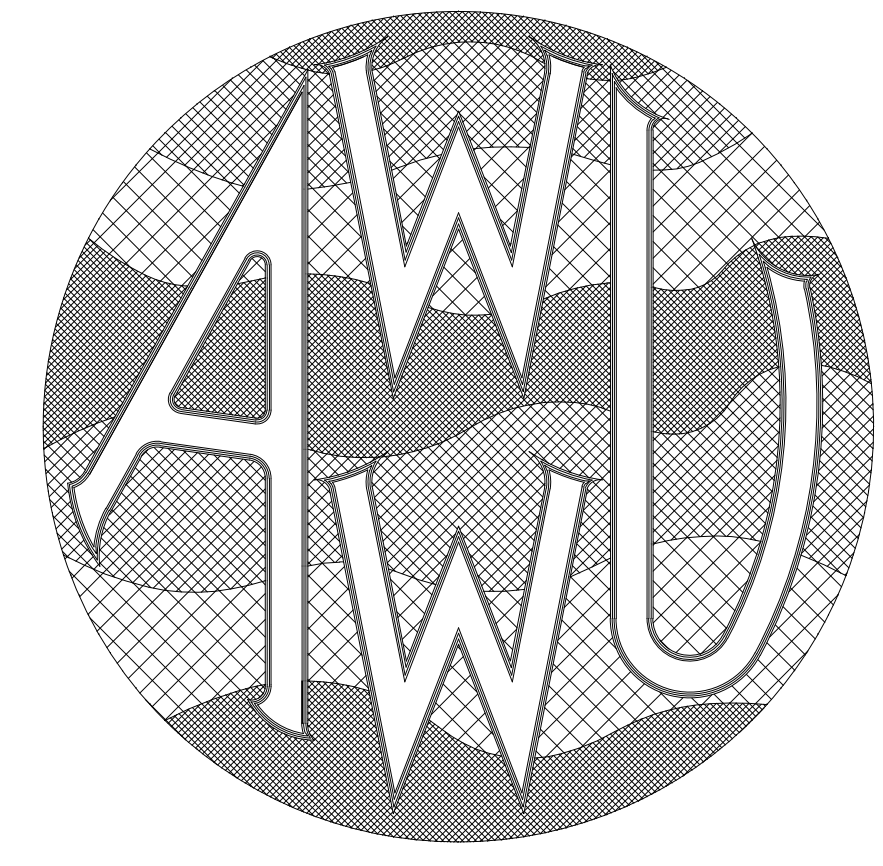


VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

UNOFFICIAL GRAPHIC SCALE
 0 1/2 1 MILE 2 MILES



AWWU PLAN SET
 NO. 10771

MUNICIPALITY OF ANCHORAGE
 WATER AND WASTEWATER UTILITY

KING STREET

WARM VEHICLE STORAGE
 BUILDING PROJECT

AWWU PROJECT ID. NO. WW.H7775

VICINITY MAP
 ANCHORAGE, ALASKA

APRIL 2021
 100% DESIGN SUBMITTAL

REV	DATE	DESCRIPTION	BY

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REVISIONS

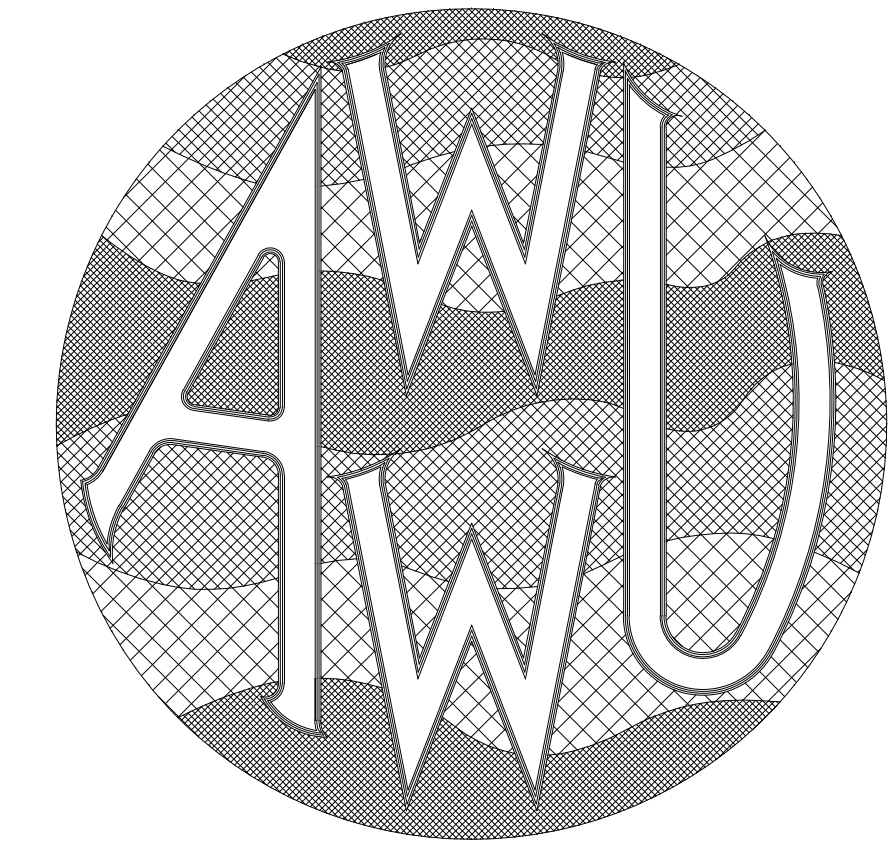


KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

AWWU PROJECT ID. NO. WW.H7775

APRIL 2021
100% DESIGN SUBMITTAL

MUNICIPALITY OF ANCHORAGE WATER AND WASTEWATER UTILITY



AWWU PLAN SET
NO. 10771

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143.	S0.3	FOUNDATION & SLAB SCHEDULE, SLAB DETAILS
144.	S0.4	BEAM CONNECTION SCHEDULE AND DETAILS
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146.	S2.1	FOUNDATION PLAN
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151.	S2.6	ENLARGED FOUNDATION PLAN – NORTH AREA
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216.	M4.2	FIRST FLOOR – SOUTH VENTILATION PLAN
217.	M4.3	MEZZANINE – NORTH VENTILATION PLAN

218.	M4.4	MEZZANINE – SOUTH VENTILATION PLAN
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228.	M6.3	VENTILATION SECTIONS
229.	M6.4	VENTILATION SECTIONS
230.	M6.5	VENTILATION SECTIONS
231.	M6.6	VENTILATION SECTIONS
232.	M6.7	VENTILATION SECTIONS
233.	M6.8	VENTILATION SECTIONS
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243.	M8.4	MECHANICAL DETAILS
244.	M8.5	MECHANICAL DETAILS
245.	M8.6	MECHANICAL DETAILS

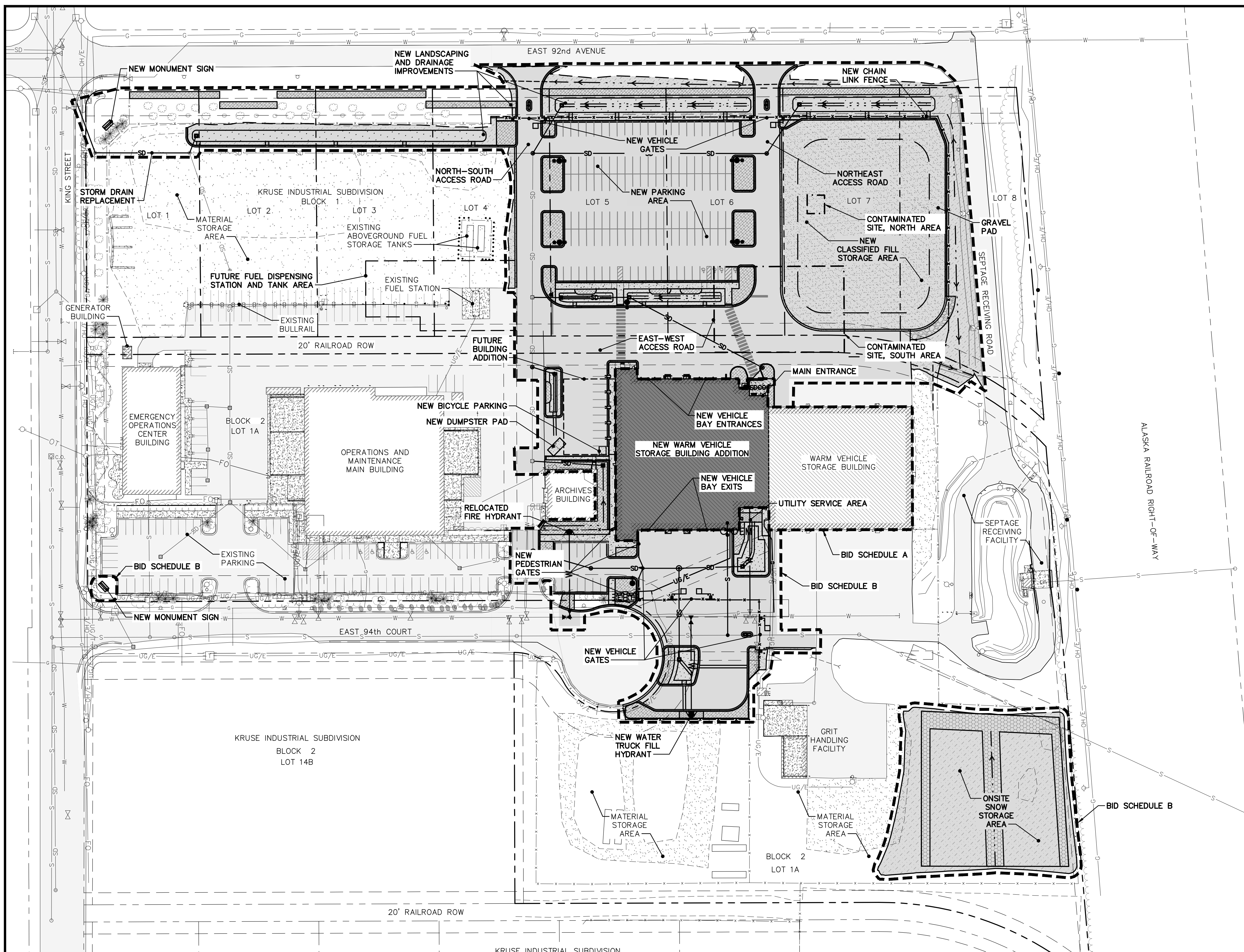
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246.	E0.1	ELECTRICAL LEGEND AND LOAD CALCULATION
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263.	E3.6	ROOF POWER PLAN, LAUNDRY AND FIRE PUMP ROOM ENLARGED PLAN

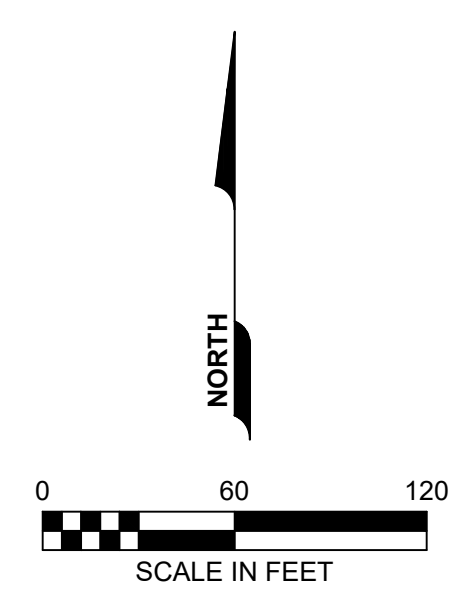
264.	E4.1	FIRST FLOOR SIGNAL PLAN – NORTH AREA
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288.	E7.3	PANEL SCHEDULES

REV	DATE	DESCRIPTION	BY
1	6/8/21	MOA PLAN REVIEW	TJ

REVISIONS



- NOTES**
- THE PROJECT LAYOUT PLAN IS INTENDED TO SHOW THE GENERAL NATURE OF THE WORK INCLUDED IN THE PROJECT, WHICH INCLUDES BUT IS NOT LIMITED TO:
 - BID SCHEDULE A
 - WARM VEHICLE STORAGE BUILDING ADDITION
 - SELECTIVE DEMOLITION OF EXISTING WARM STORAGE BUILDING
 - EXCAVATION AND BACKFILL FOR BUILDING FOUNDATION
 - BID SCHEDULE B
 - SELECTIVE DEMOLITION OF SITE ELEMENTS
 - EXCAVATION AND FILL FOR SITE DEVELOPMENT
 - CONTAMINATED SITE REMEDIATION IN ACCORDANCE WITH THE SOIL AND GROUNDWATER MANAGEMENT PLAN
 - UTILITY MODIFICATIONS AND SERVICE CONNECTIONS
 - PAVED PARKING AND ACCESS ROADS
 - FENCING, GATES, AND ACCESS CONTROL
 - SITE AMENITIES AND LANDSCAPING
 - STORMWATER MANAGEMENT FEATURES



VERIFY SCALE
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

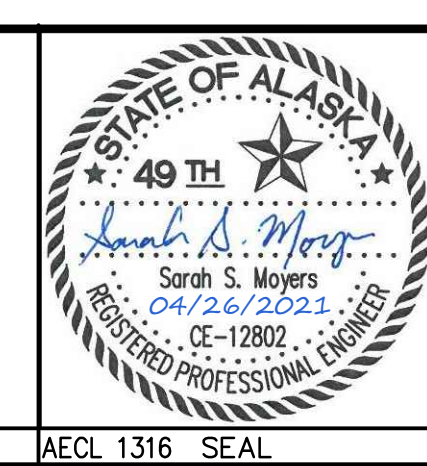
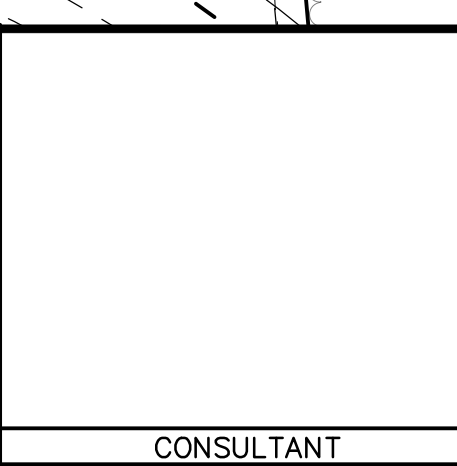
1. DATA PROVIDED BY: _____
This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: _____
DATE: _____ TITLE: _____
BY: _____

2. DATA TRANSFERRED BY: _____
COMPANY: _____
DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
DATA TRANSFER CHECKED BY: _____
COMPANY: _____
DATE: _____ TITLE: _____
BY: _____

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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

PROJECT LAYOUT PLAN

DWG
G1.1

HORIZ SCALE: 1"=60' DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

AWWU

AECL 1316 SEAL

SHEET 4 of 288

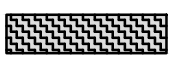
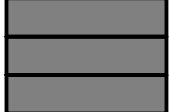






NOTES

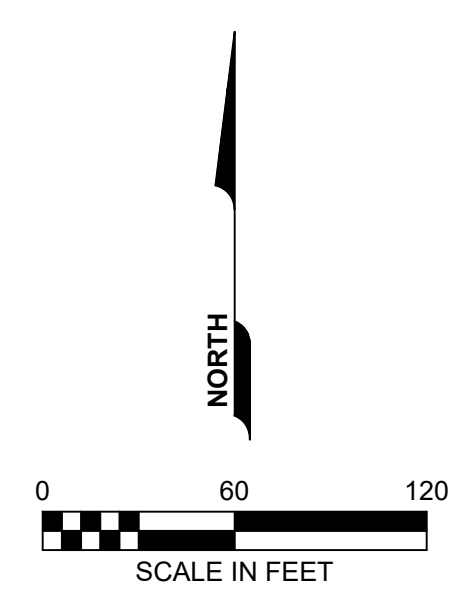
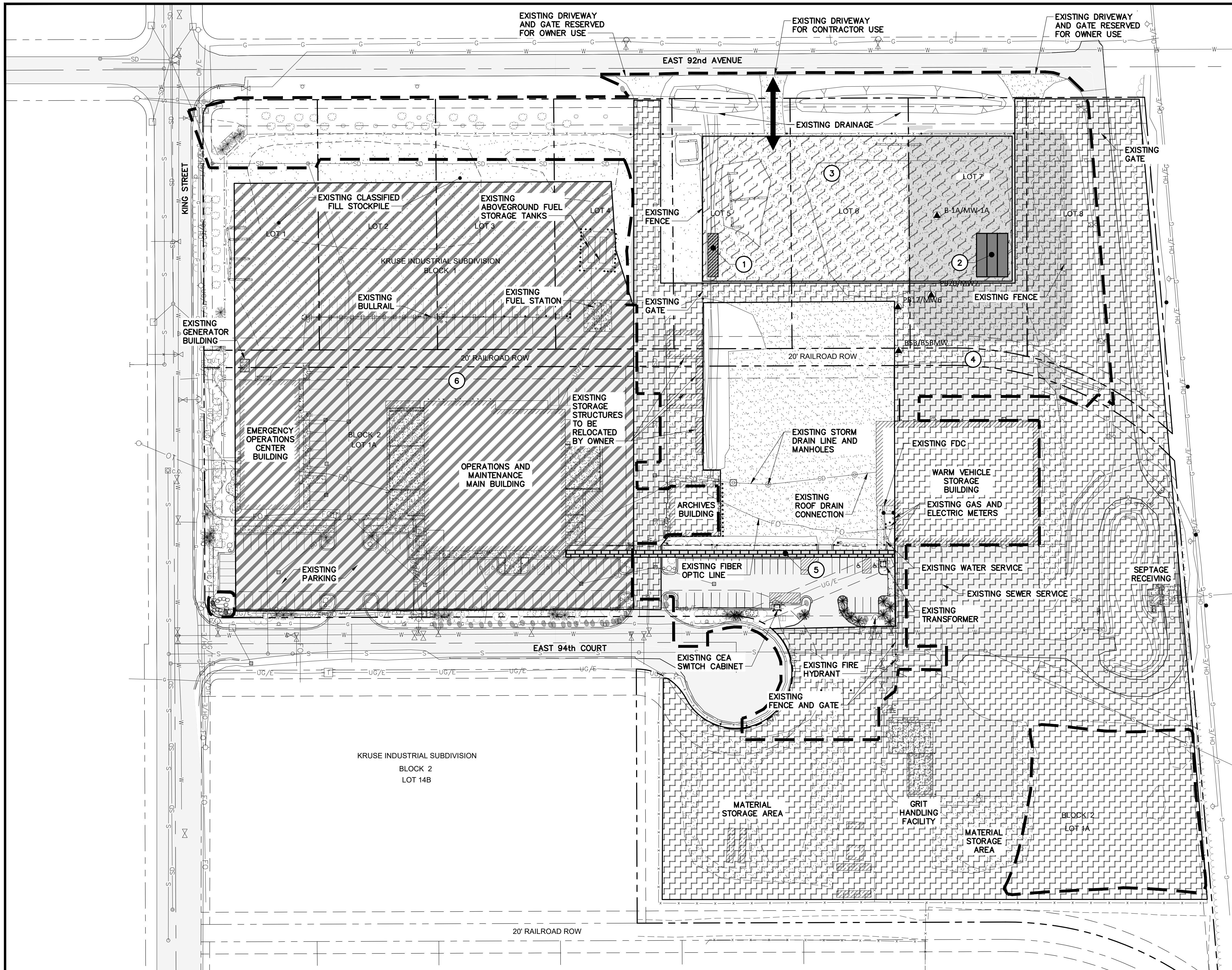
1. CONTRACTOR SHALL SUBMIT A WORK PLAN IN ACCORDANCE WITH THE SPECIFICATIONS.
2. AWWU PERSONNEL AND VEHICULAR ACCESS TO ALL EXISTING FACILITIES MUST BE MAINTAINED AT ALL TIMES.
3. FACILITIES MUST REMAIN FULLY OPERATIONAL AT ALL TIMES. COORDINATE ALL TEMPORARY SERVICE INTERRUPTIONS WITH THE ENGINEER.
4. ALTERNATIVE STAGING AREAS MAY BE NECESSARY DURING SPECIFIC PHASES OF SITE CONSTRUCTION. COORDINATE STAGING LOCATION AND EXTENTS WITH THE ENGINEER.

STAGING KEY

- ① CONTRACTOR'S FIELD OFFICE: LOCATE WITHIN STAGING AREA
- ② OWNER'S LOCKER ROOMS: CONTRACTOR PROVIDED. LOCATE WITHIN STAGING AREA OR ADJACENT TO EXISTING WARM STORAGE BUILDING IN LOCATION APPROVED BY THE OWNER.
- ③ STAGING AREA: RESERVED FOR CONTRACTOR'S USE.
- ④ AWWU OPERATIONS AREA: MAINTAIN ACCESS FOR AWWU OPERATIONS. COORDINATE TEMPORARY DISRUPTIONS WITH THE OWNER.
- ⑤ AWWU BUILDING ACCESS: MAINTAIN PROTECTED PEDESTRIAN ACCESS BETWEEN ALL AWWU BUILDINGS DURING CONSTRUCTION.
- ⑥ OFF LIMITS AREA: OFF LIMITS TO CONTRACTOR ACTIVITY OR USE.

STAGING LEGEND

-  CONTRACTOR'S FIELD OFFICE
-  OWNER'S LOCKER ROOMS
-  CONTRACTOR'S GATE
-  PROJECT WORK AREA
-  STAGING AREA
-  AWWU OPERATIONS AREA
-  AWWU BUILDING ACCESS
-  OFF LIMITS AREA



REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

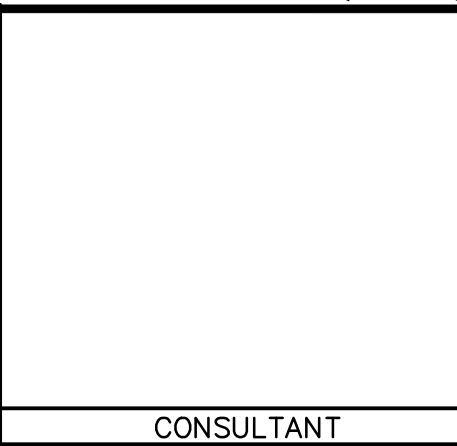
1. DATA PROVIDED BY: _____
 This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____ DATE: _____ TITLE: _____
 BY: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____ DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
 DATA TRANSFER CHECKED BY: _____ DATE: _____ TITLE: _____
 BY: _____

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MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

PROJECT STAGING PLAN

HORIZ SCALE: 1"=60' DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG
G1.2

SHEET 5 of 288

TITLE 21 SITE ASSESSMENT*

*THIS SHEET IS INTENDED AS A CODE STUDY ONLY. SEE CIVIL AND LANDSCAPE SHEETS FOR CONSTRUCTION SCHEDULES, PLANS, AND DETAILS.

NEW PLANTINGS REQUIRED FOR PARKING LOT AND SITE PERIMETER LANDSCAPING* (PHASE 1)

LANDSCAPE LEVEL: L1**		
	TREES	SHRUBS
REQUIRED	52	312
PROVIDED	52	349

*SEE SECTION 21.07.080 E.1 AND E.2.B. PARKING LOT PERIMETER LANDSCAPING IS REQUIRED WHERE A PARKING LOT ADJUTS A PROPERTY LINE. SITE PERIMETER LANDSCAPING IS REQUIRED WHERE I-2 PARCELS ARE ADJACENT TO LOCAL OR COLLECTOR STREETS.

**L1 LANDSCAPING: 1 TREE AND 6 SHRUBS PER 20 LINEAR FEET OF PROPERTY LINE. MINIMUM 8" WIDTH PLANTING BED. SEE TABLE 21.07-01 FOR LANDSCAPING SPECIFICATIONS.

***PARKING LOT AND SITE PERIMETER LANDSCAPING FOR PHASE 3 HAS ALREADY BEEN INSTALLED. THIS STUDY ASSUMES THAT IT MEETS CURRENT TITLE 21 CODE OR HAS NONCONFORMING RIGHTS. A NONCONFORMING RIGHTS REPORT HAS NOT BEEN PREPARED FOR THIS STUDY.

NEW PLANTINGS REQUIRED FOR PARKING LOT INTERIOR LANDSCAPING* (PHASE 1)

LANDSCAPE LEVEL: PARKING LOT INTERIOR LANDSCAPING**			
	TREES	SHRUBS	AREA OF PLANTING BED
REQUIRED	28	168	4478
PROVIDED	32	194	5064

*SEE SECTION 21.07.080 E.2.C. PARKING LOT INTERIOR LANDSCAPING IS REQUIRED FOR ANY PARKING LOT WITH 40 OR MORE SPACES. FOR PARKING LOTS UNDER 100 PARKING SPACES, AN AREA EQUAL TO AT LEAST FIVE PERCENT OF THE PARKING LOT SHALL BE DEVOTED TO LANDSCAPING. FOR PARKING LOTS WITH 101 TO 200 PARKING SPACES, AN AREA EQUAL TO AT LEAST EIGHT PERCENT OF THE PARKING LOT SHALL BE DEVOTED TO LANDSCAPING.

**PARKING LOT INTERIOR LANDSCAPING: 1 TREE AND 6 SHRUBS PER 150 SF OF TOTAL INTERNAL LANDSCAPING REQUIRED. SEE TABLE 21.07-01 FOR LANDSCAPING SPECIFICATIONS.

***PARKING LOT INTERIOR LANDSCAPING FOR PHASE 3 HAS ALREADY BEEN INSTALLED. THIS STUDY ASSUMES THAT IT MEETS CURRENT TITLE 21 CODE OR HAS NONCONFORMING RIGHTS. A NONCONFORMING RIGHTS REPORT HAS NOT BEEN PREPARED FOR THIS STUDY.

OFF-STREET PARKING REQUIREMENTS* (PHASE 1)

USE TYPE	SF	SPACES REQUIRED	TOTAL
OFFICE	26795	1 PER 350	77
WAREHOUSE (1-10000 SF)	10000	1 PER 1000	10
WAREHOUSE (10000-50000 SF)	40000	1 PER 1250	32
WAREHOUSE (+50000 SF)	3491	1 PER 1500	2
TOTAL SPACES REQUIRED			121
TOTAL SPACES PROVIDED			158
BIKE PARKING REQUIRED			4
BIKE PARKING PROVIDED			9
LOADING ZONES REQUIRED FOR CIVIC FACILITIES			2 TYPE A, 1 TYPE B
LOADING ZONES PROVIDED			2 TYPE A, 1 TYPE B

*SEE SECTION 21.07.090.E AND TABLE 21.07-4 FOR OFF-STREET PARKING REQUIREMENTS. CALCULATIONS IN THIS TABLE ARE ONLY FOR PARKING REQUIRED FOR PHASE 1 OF THIS PROJECT, WHICH INCLUDES THE EXISTING WARM STORAGE AND NEW WARM STORAGE BUILDING. NO OTHER BUILDINGS WERE INCLUDED IN THESE CALCULATIONS.

OFF-STREET PARKING ACCESSIBLE PARKING REQUIREMENTS* (CAMPUS)

TOTAL PARKING SPACES PROVIDED	255
TOTAL SPACES REQUIRED	8
TOTAL SPACES PROVIDED	8

*SEE SECTION 21.07.090.E AND TABLE 21.07-4 FOR OFF-STREET PARKING REQUIREMENTS.

SNOW STORAGE CALCULATIONS* (CAMPUS)

	AREA OF PAVED SURFACE (SF)**	AREA OF SNOW STORAGE (SF)	% OF PAVED SURFACE
REQUIRED	330,242	16,512	5.0%
PROVIDED	330,242	27,664	8.4%

*SEE SECTION 21.07.040 F. *FOR RESIDENTIAL USES, AN AREA EQUAL TO AT LEAST 10 PERCENT OF THE SURFACE AREA ON THE SITE TO BE PLOWED FOR MOTORIZED VEHICLE PARKING AND ACCESS (AS IDENTIFIED IN SUBSECTION F.2) SHALL BE DESIGNATED FOR SNOW STORAGE. FOR NONRESIDENTIAL USES, THIS AREA REQUIREMENT SHALL BE 5%. SNOW STORAGE AREAS SHALL BE PLANTED WITH GROUND-COVER (SUCH AS GRASS), OR PAVED SUBJECT TO SUBSECTION 21.07.09H.12.*

**INCLUDES ALL PHASES AND ALL PAVED VEHICULAR CIRCULATION AREAS FOR AWWU FACILITY

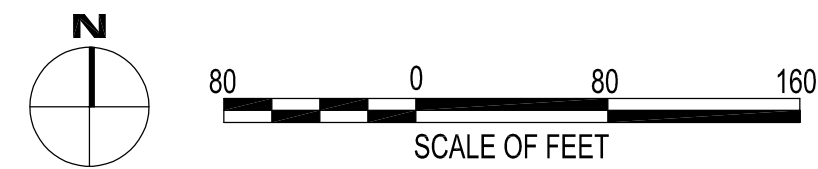
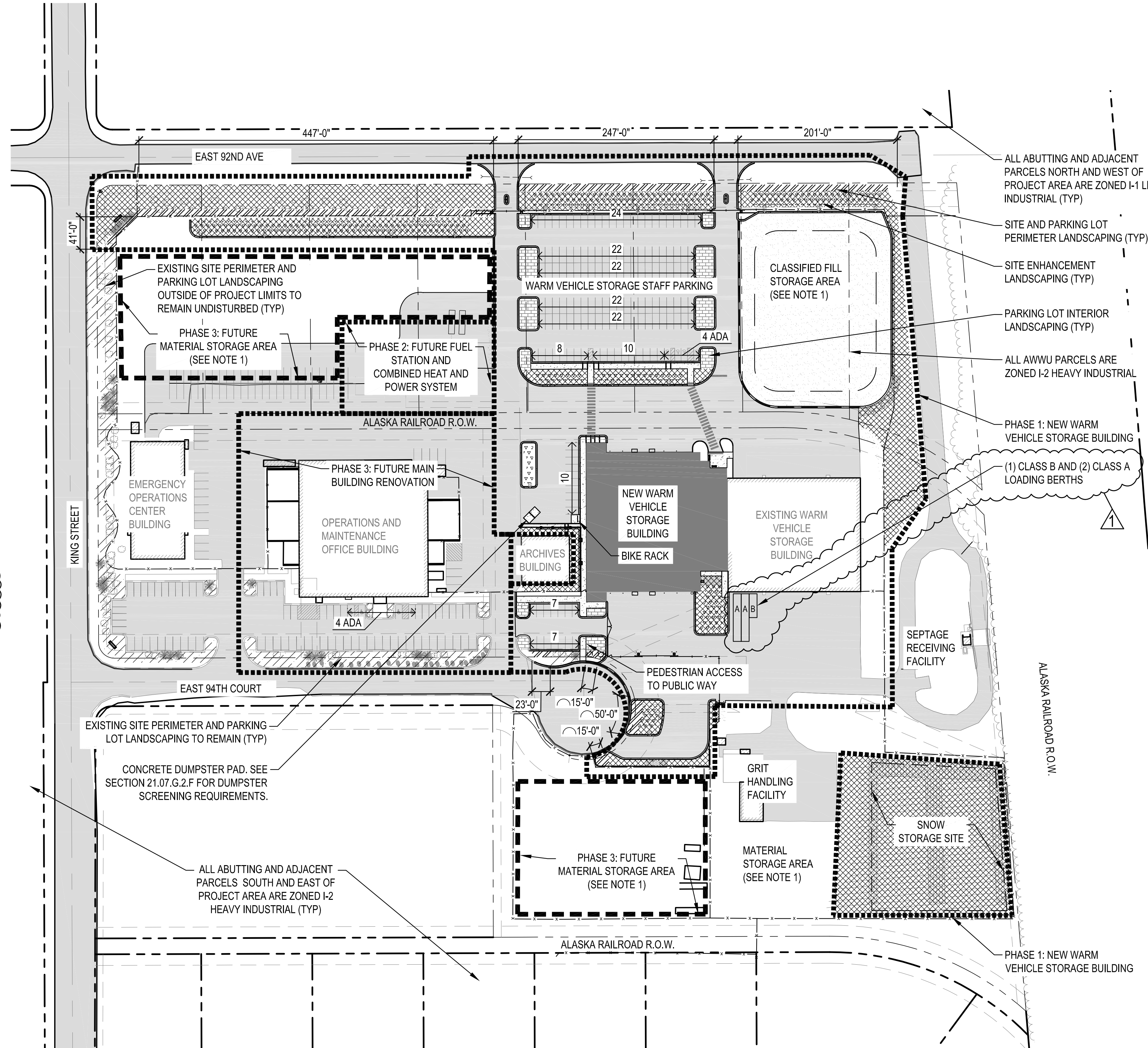
LEGEND: TITLE 21 LANDSCAPE PLANTING TYPE REQUIREMENTS (AND EXISTING LANDSCAPED AREAS)

SYMBOL	DESCRIPTION	NOTES	SYMBOL	DESCRIPTION	NOTES
	PARKING LOT PERIMETER/SITE PERIMETER LANDSCAPE BED			EXISTING DECIDUOUS TREE	
	PARKING LOT INTERIOR LANDSCAPE BED			EXISTING EVERGREEN TREE	
	SITE ENHANCEMENT LANDSCAPING* (4" TOPSOIL AND SCHEDULE 4 SEED MIX)			EXISTING PARKING LOT PERIMETER/SITE PERIMETER LANDSCAPE BED	

*SITE ENHANCEMENT LANDSCAPING IS REQUIRED ON ALL AREAS OF THE SITE OCCUPIED BY BUILDINGS, STRUCTURES, DRIVEWAYS, WALKWAYS, OFF-STREET PARKING, OR OTHER AUTHORIZED USES OR INSTALLATIONS AND NOT OTHERWISE DEVOTED TO LANDSCAPING REQUIRED BY TITLE 21. AREAS SUBJECT TO SITE ENHANCEMENT LANDSCAPING SHALL BE COVERED WITH LIVING GROUND COVER, TURF, OR PLANTING BEDS WITH TREES AND SHRUBS. SEE SECTION 21.07.080 E.3. AND TABLE 21.07-1.

NOTES:

- OUTDOOR STORAGE SHALL NOT EXCEED 35 FEET IN HEIGHT. NO OUTDOOR STORAGE SHALL OCCUR WITHIN THE REQUIRED FRONT OR SIDE SETBACKS SET FORTH IN 21.06, PER SECTION 21.05.060D.5.b.III.



AWWU PLAN SET NO. 10771

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY
1	6/8/21	MOA PLAN REVIEW	MB
REVISIONS			

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 BY: _____

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 6700 Arctic Spur Road
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 2600 DENALI STREET SUITE 710
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STATE OF ALASKA
 49th Anniversary
 MARK M. KIMERER
 No. 11157
 PROFESSIONAL LANDSCAPE ARCHITECT
 SEAL

AWWU

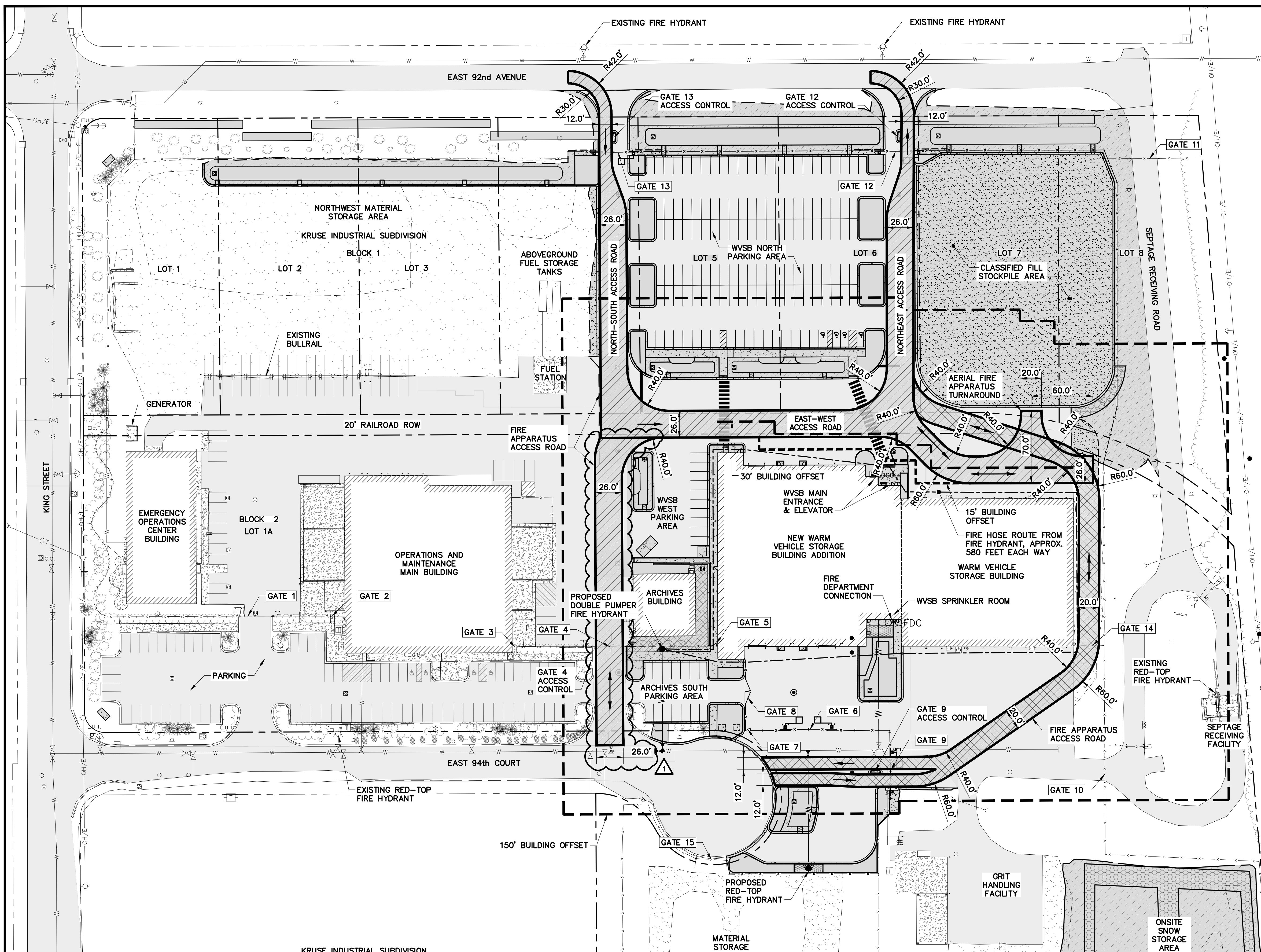
MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

TITLE 21 CODE STUDY

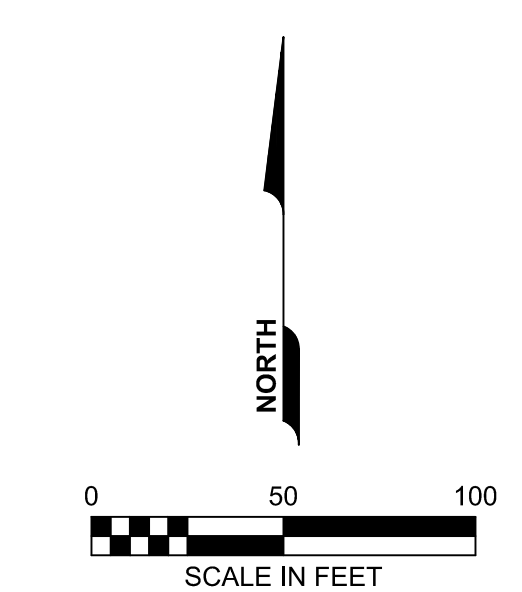
HORZ. SCALE: 1"=80' DATE: APRIL 2021 GRID: SW 2431
 VERT. SCALE: N/A PROJ. ID.: WW.H7775

DWG **G1.3**
 SHEET 6 of 288



GATE SCHEDULE			
GATE	TYPE	DESCRIPTION	KNOX BOX
1	EXISTING VEHICLE	AUTOMATIC SLIDE	YES
2	EXISTING PEDESTRIAN	MANUAL SWING	
3	EXISTING PEDESTRIAN	MANUAL SWING	
4	EXISTING VEHICLE	AUTOMATIC SLIDE	YES
5	NEW PEDESTRIAN	MANUAL SWING	YES
6	NEW VEHICLE EXIT	AUTOMATIC SLIDE	
7	NEW PEDESTRIAN	MANUAL SWING	YES
8	NEW VEHICLE	MANUAL SWING	YES
9	NEW VEHICLE	AUTOMATIC SLIDE	YES
10	EXISTING VEHICLE	AUTOMATIC SLIDE	
11	EXISTING VEHICLE	AUTOMATIC SLIDE	
12	NEW VEHICLE	AUTOMATIC SLIDE	YES
13	NEW VEHICLE	AUTOMATIC SLIDE	YES
14	EXISTING VEHICLE	MANUAL SWING	
15	EXISTING VEHICLE	MANUAL SWING	

- NOTES**
- FIRE APPARATUS ACCESS ROUTES ARE SHOWN FOR INFORMATION ONLY. NO NEW FIRE LANE STRIPING OR SIGNAGE IS PROPOSED.
 - AERIAL APPARATUS ACCESS IS PROVIDED ALONG THE NORTH SIDE OF THE WWSB ADDITION AND EXISTING WWSB BUILDING.
 - KNOXBOX GATE AND KEY SWITCHES ARE TO BE PROVIDED AT NEW VEHICLE AND PEDESTRIAN GATES AS INDICATED IN THE GATE SCHEDULE.



REV	DATE	DESCRIPTION	BY
1	6/8/21	MOA PLAN REVIEW	SSM

REVISIONS	

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

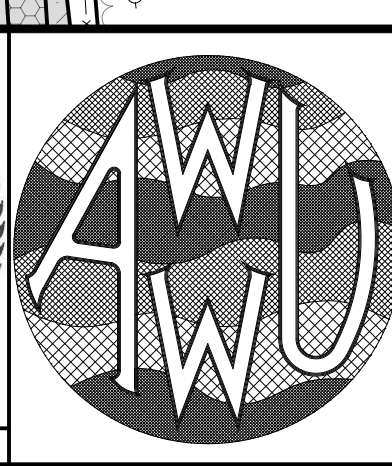
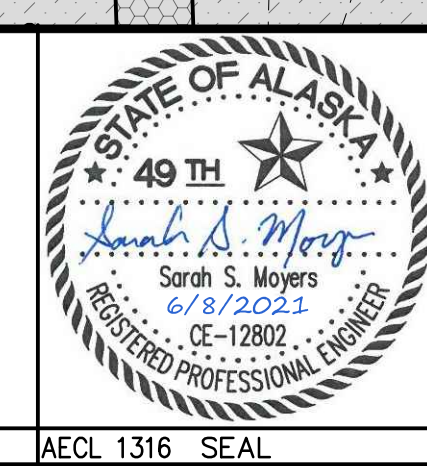
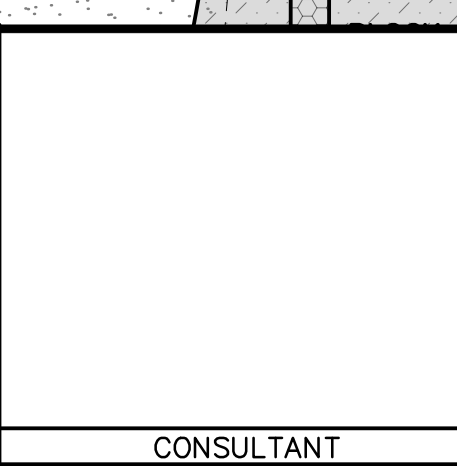
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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

FIRE ACCESS PLAN

DWG
G1.4

HORIZ SCALE: 1"=50' DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

SHEET 7 of 288

CODE ANALYSIS

REFERENCE table with columns for code name and reference code (e.g., 2018 INTERNATIONAL BUILDING CODE {IBC-18})

OCCUPANCY CLASSIFICATION table with columns for group name and reference code (e.g., GROUP A-3 ASSEMBLY - LECTURE HALL {REF: IBC-18, SEC. 303})

TYPE OF CONSTRUCTION table with columns for group type and reference code (e.g., GROUP TYPE IIB (SPRINKLERED) {REF: IBC-18, SEC. 602.2})

CONSTRUCTION REQUIREMENTS {IBC-18: TABLE 601}

Table listing building element fire resistance ratings (e.g., PRIMARY STRUCTURAL FRAME 0 HOUR)

AREA LIMITATIONS {IBC-18: SEC. 503.1}

BUILDINGS SEPARATED BY ONE OR MORE FIRE WALLS COMPLYING WITH IBC-18, SEC. 706 SHALL BE CONSIDERED SEPARATE BUILDINGS.

FIRE WALL AT GRID 1' = 2-HOUR FIRE WALL {IBC-18: SEC. 706}

HEIGHT, STORIES, ALLOWABLE AREA {IBC-18: TABLE 504.3, 504.4, 506.2}

Table showing height, stories, and allowable area for different groups (A-3, B, S-1) with allowed and provided values.

AREA MODIFICATIONS {IBC-18: SEC. 506.2.4}

Area increase per frontage: I_f = [(640'/758') - 0.25] 29/30 I_f = 0.6
GROUP A-3: MOST RESTRICTIVE A_o = [28,500 + (9,500 x 0.57)] = 33,915 SF / STORY
GROUP B: A_o = [69,000 + (23,000 x 0.57)] = 82,110 SF / STORY
GROUP S-1: A_o = [52,500 + (17,500 x 0.6)] = 62,475 SF / STORY

NONSEPARATED OCCUPANCIES: {IBC-18: TABLE 508.3.2}

A-3 IS MOST RESTRICTIVE FOR ALLOWABLE BUILDING AREA, HEIGHT, AND STORIES
ALLOWABLE: 33,915 SF/FLOOR, 75' HEIGHT, 3 STORIES
PROVIDED: 30,896 SF (BUILDING FOOTPRINT + CANOPY) 51'-6" HEIGHT, 2 STORIES WITH MEZZANINE

OCCUPANCY SEPARATION: NONE REQUIRED {IBC-18, SEC. 508.3.3}

MEZZANINES {IBC-18, SEC. 505}

MEZZANINE AREA = 4,706 SF
MEZZANINE AREA IS PORTION OF STORY BELOW = 30,896 SF

INTERIOR EXIT STAIRWAYS {IBC-18: SEC. 1023}
INTERIOR EXIT STAIRWAYS SHALL BE ENCLOSED AND LEAD DIRECTLY TO THE EXTERIOR OR EXTEND WITH AN EXIT PASSAGEWAY.

INTERIOR EXIT STAIRWAYS SHALL BE CONSTRUCTED AS FIRE BARRIERS AND HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1-HOUR. {IBC-18: SEC. 1023.2}

1-HOUR FIRE PROTECTION IS REQUIRED FOR ALL CONSTRUCTION SUPPORTING 1-HOUR FIRE BARRIERS. HOLLOW VERTICAL SPACES WITHIN A FIRE BARRIER SHALL BE FIREBLOCKED AT EVERY FLOOR LEVEL. {IBC-18: SEC. 707.5.1}

EXIT ACCESS TRAVEL DISTANCE {IBC-18: TABLE 1017.2}

OCCUPANCY A-3, S-1 250' OR LESS REQUIRED W/ SPRINKLER
OCCUPANCY B 300' OR LESS REQUIRED W/ SPRINKLER

OCCUPANT LOADS {IBC-18, TABLE 1004.5}

Table showing occupant loads for 1st and 2nd floors, including vehicle storage and various room types (meeting, conference, office, kitchen).

MEANS OF EGRESS

SIZING
1ST FLOOR-OTHER: 758 X .02"/OCC. = 152" PROVIDED 360" {IBC-18, SEC. 1105.3.2}
2ND FLOOR-STAIR: 653 X 0.2"/OCC. = 131" PROVIDED 240" {IBC-18, SEC. 1005.3.1}
OTHER: 653 X .02"/OCC. = 131" PROVIDED 144" {IBC-18, SEC. 1105.3.2}

MINIMUM NUMBER OF EXITS PER STORY {IBC-18, TABLE 1006.3.2}
2ND FLOOR: 653 OCCUPANTS = 3 EXITS PROVIDED 4 EXITS

EXIT ACCESS TRAVEL DISTANCE {IBC-18, TABLE 1017.2}

GROUP A-3, S-1 250' WITH SPRINKLER
GROUP B 300' WITH SPRINKLER

CORRIDOR FIRE-RESISTANCE RATING {IBC-18, TABLE 1020.1}
GROUP A-3, B, S-1 WITH SPRINKLER = 0-HOUR RATING
MINIMUM WIDTH = 44" {IBC-18, TABLE 1020.2}

STAIRWAY CONSTRUCTION {IBC-18, SEC. 1023.2}

FIRE-RESISTANCE RATING: 1-HOUR FIRE BARRIER CONNECTING < 4 STORIES

ELEVATOR SHAFT CONSTRUCTION {IBC-18, SEC. 713}

1-HOUR WHERE CONNECTING LESS THAN 4 STORIES

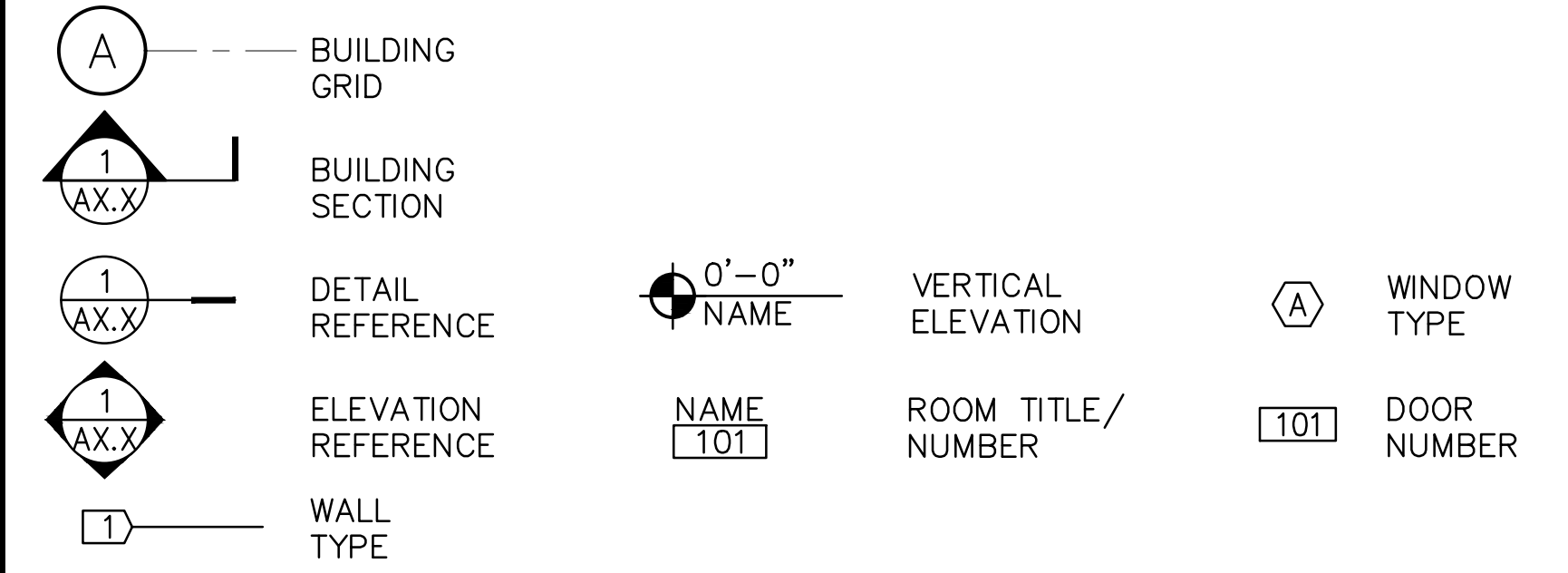
MINIMUM PLUMBING FACILITIES {IBC-18, TABLE 2902.1}

Table showing business classification, total building occupants (762 = 381 MALE & 381 FEMALE), and plumbing facilities (water closets, lavatories, service sink).

THERMAL ENVELOPE INSULATION COMPONENTS {AO-20, CHAPTER 23.60}

Table showing required vs provided insulation for roofs, walls, and floors.

SYMBOL LEGEND



STANDARD ABBREVIATIONS

Large table of standard abbreviations for building components and materials (e.g., AB ANCHOR BOLT, ELEV ELEVATION, OHD OVERHEAD DOOR).

AWWU PLAN SET NO. 10771

VERIFY SCALE table with columns for revision number, date, description, and initials.

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State of Alaska Professional Engineer seal for Richard R. Rearick, No. 8863, 4-21-2001

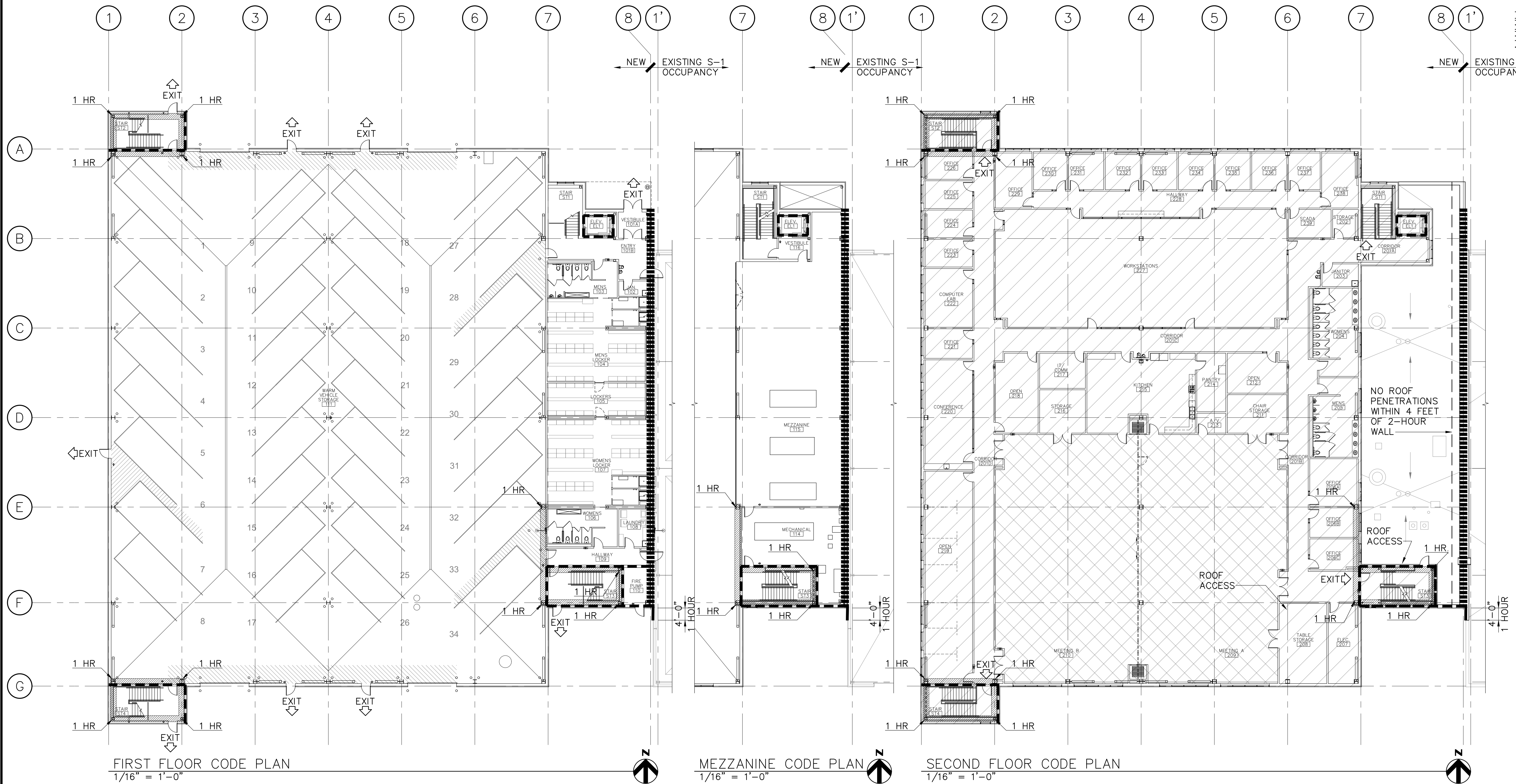
AWWU logo

MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY. KING STREET WARM VEHICLE STORAGE BUILDING PROJECT. CODE ANALYSIS, SYMBOL LEGEND, ABBREVIATIONS. DWG G2.1. SHEET 8 of 288. PROJ. ID.: WW.H7775

LEGEND

- A-3 OCCUPANCY
- B OCCUPANCY
- S-1 OCCUPANCY
- 1-HOUR FIRE BARRIER
- 2-HOUR FIRE WALL
- 1 HR 1-HOUR RATED COLUMN - FULL HEIGHT
- 1-HOUR RATED STEEL SUPPORTING STRUCTURE: GYPSUM BOARD WRAPPED COLUMNS, BEAMS, AND CONNECTIONS AT ALL AREAS SUPPORTING FIRE BARRIERS
- EXIT ↗ EXIT DISCHARGE

AWWU PLAN SET NO. 10771



FIRST FLOOR CODE PLAN
1/16" = 1'-0"

MEZZANINE CODE PLAN
1/16" = 1'-0"

SECOND FLOOR CODE PLAN
1/16" = 1'-0"

VERIFY SCALE		
REV	DATE	DESCRIPTION
REVISIONS		

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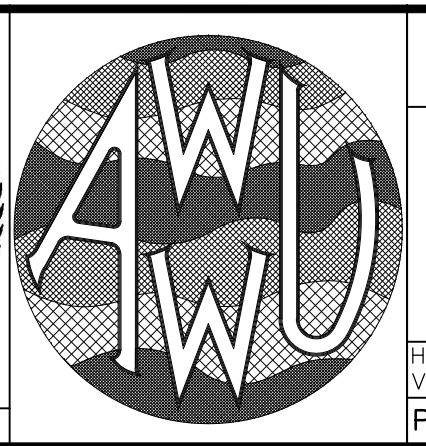
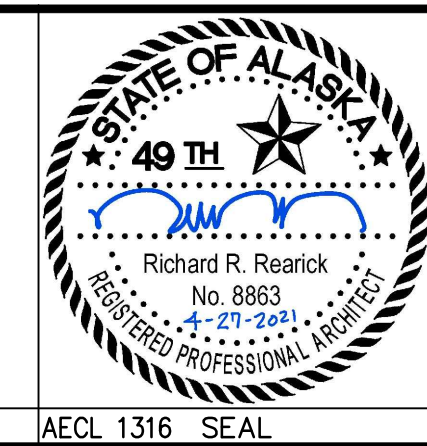
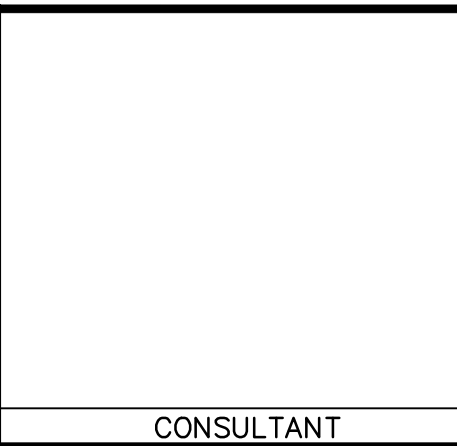
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

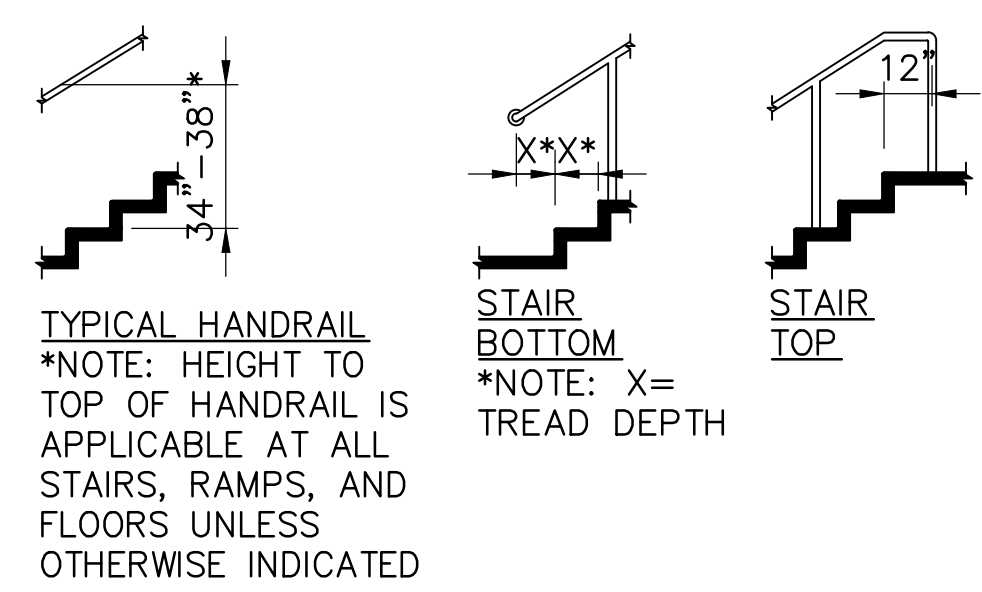
CODE ANALYSIS PLANS

DATE: APRIL 2021 GRID: SW 2431

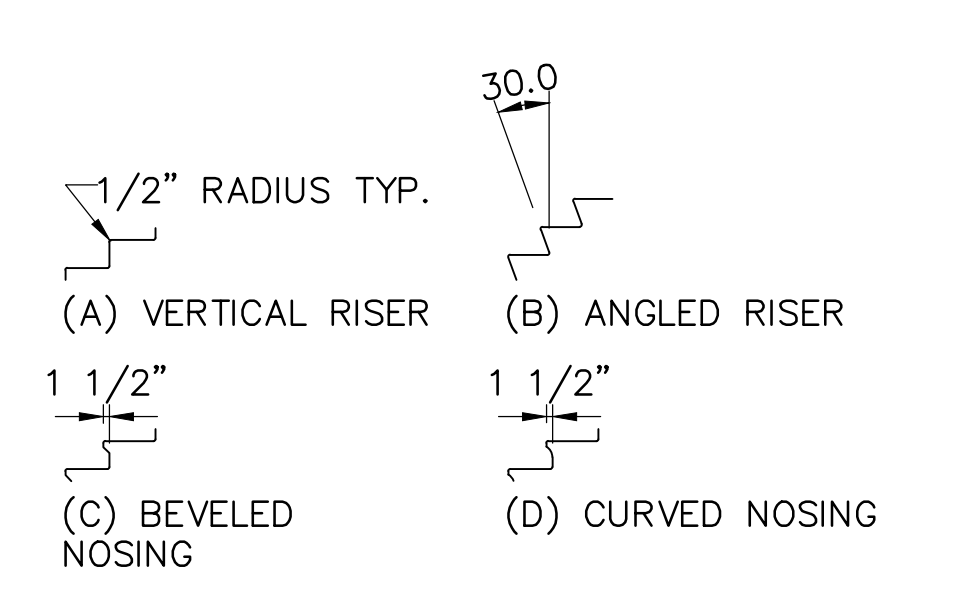
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DWG **G2.2**

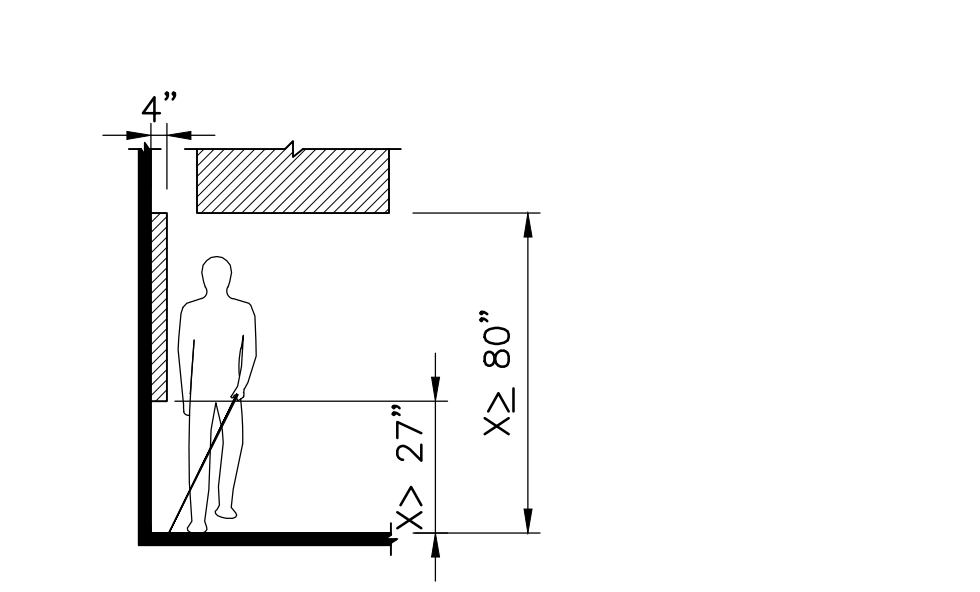
SHEET 9 of 288



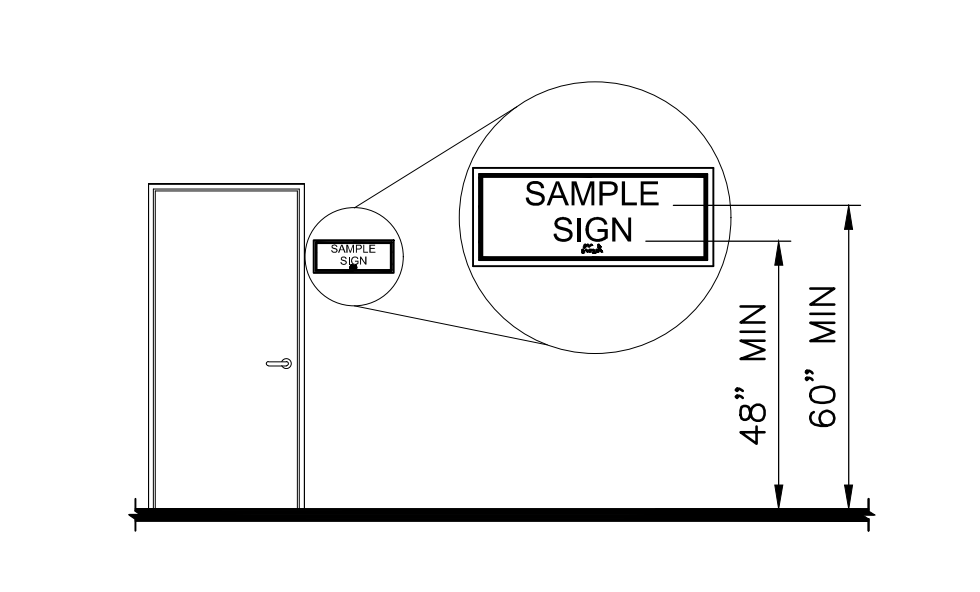
1 HANDRAIL
G2.3 1/4" = 1'-0"



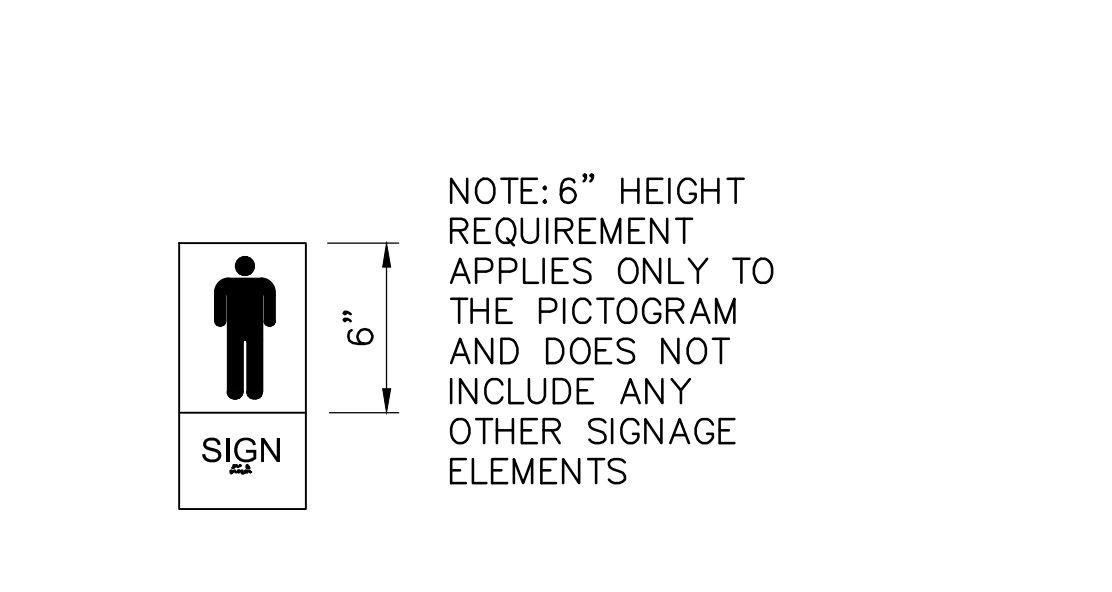
6 STAIR RISER OR NOSING
G2.3 1/4" = 1'-0"



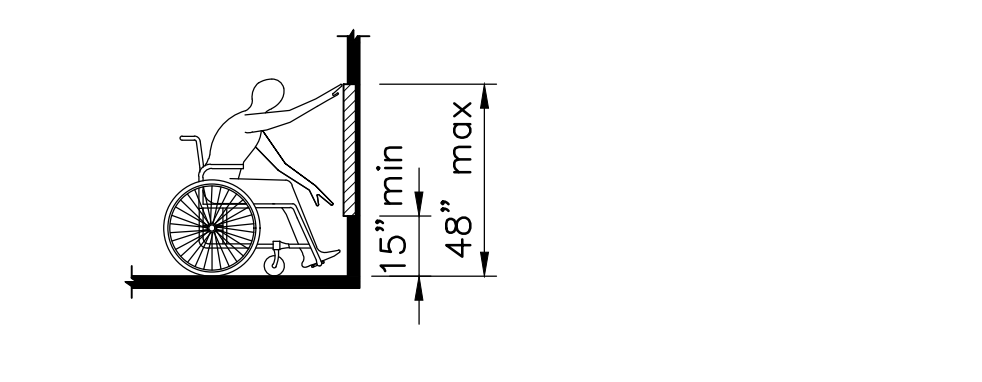
11 LIMIT OF PROTRUDING OBJECT
G2.3 1/4" = 1'-0"



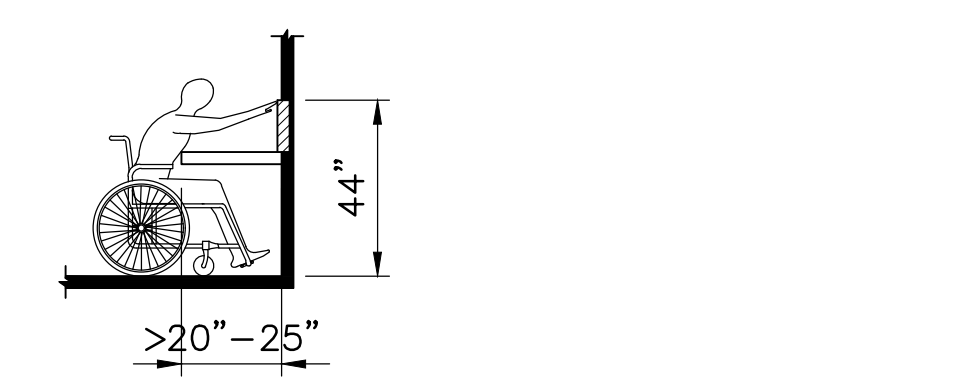
16 SIGNAGE MOUNTING HEIGHT
G2.3 1/4" = 1'-0"



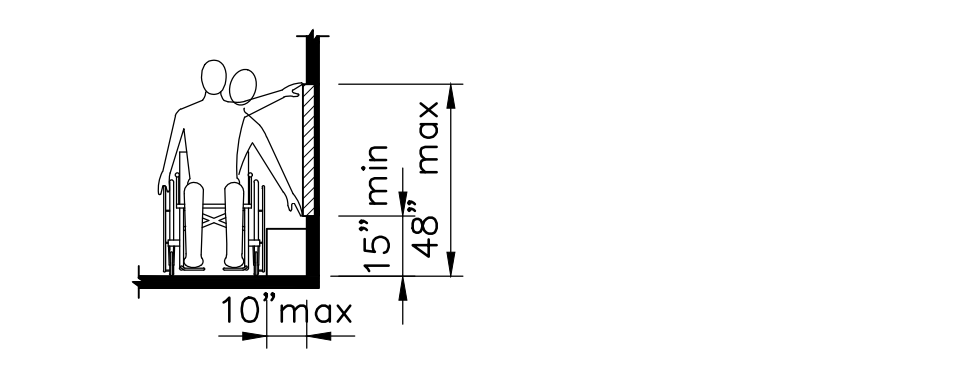
20 PICTOGRAMS
G2.3 1/4" = 1'-0"



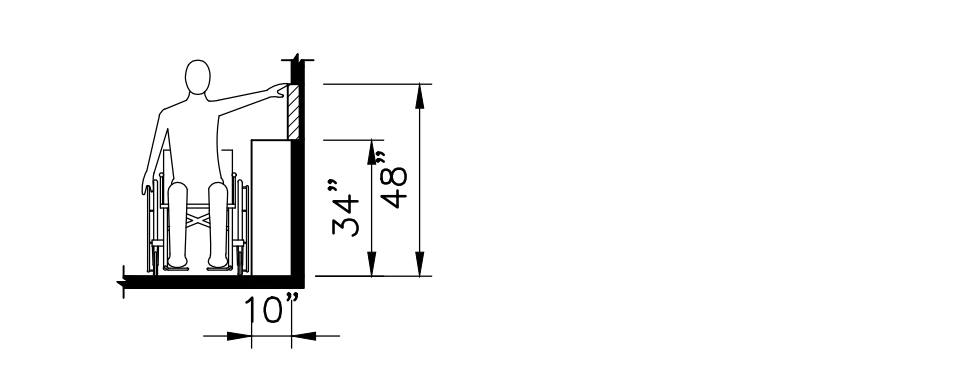
2 UNOBSTRUCTED FORWARD
G2.3 1/4" = 1'-0"



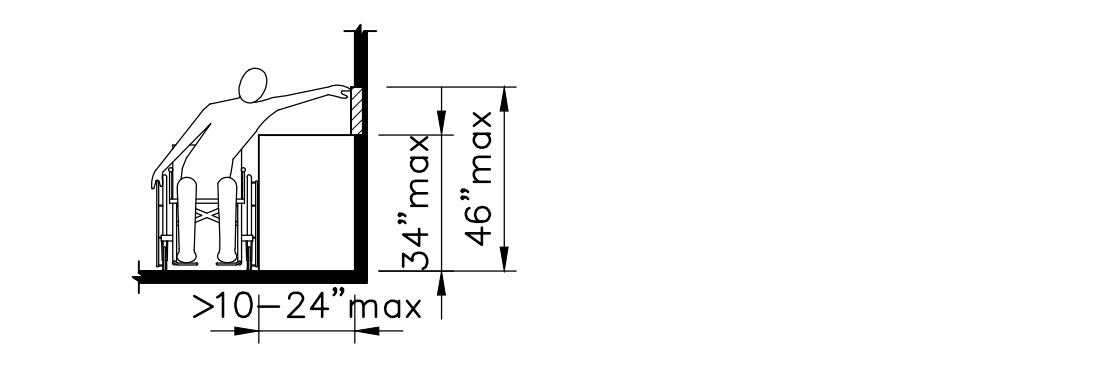
7 OBSTRUCTED HIGH FORWARD
G2.3 1/4" = 1'-0"



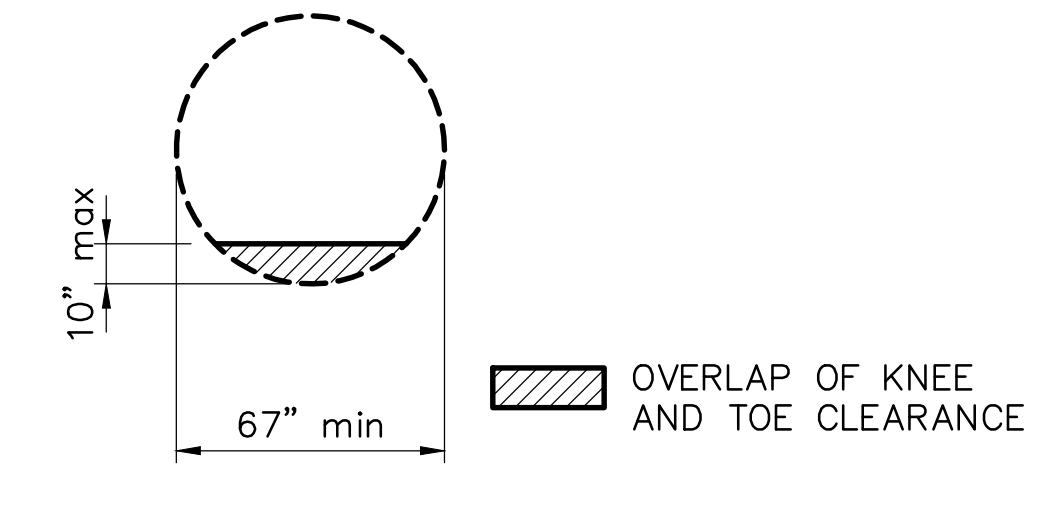
12 UNOBSTRUCTED SIDE REACH
G2.3 1/4" = 1'-0"



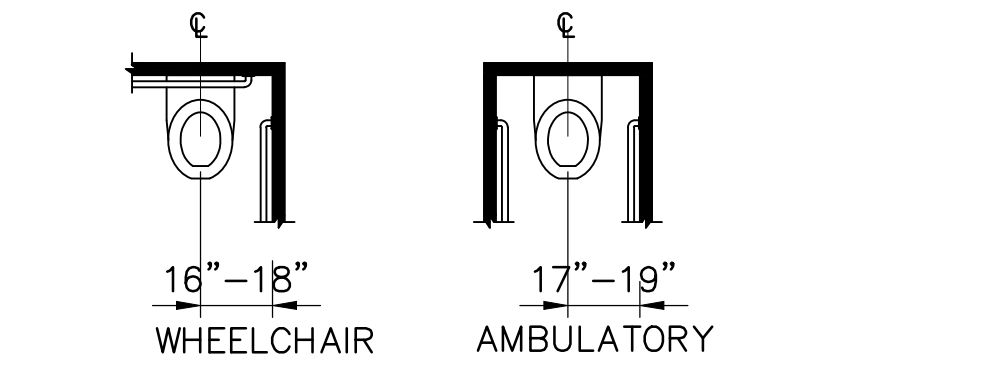
17 OBSTRUCTED SIDE REACH
G2.3 1/4" = 1'-0"



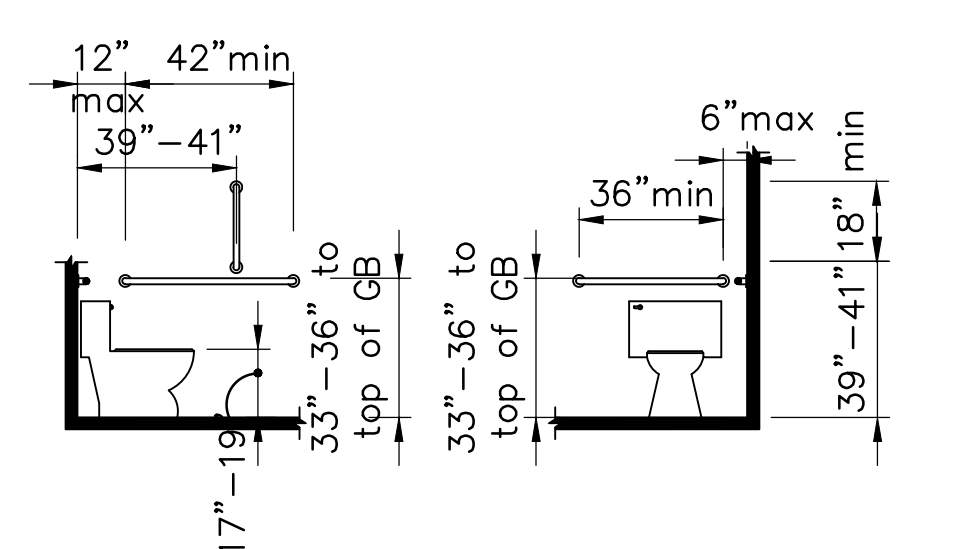
21 OBSTRUCTED HIGH SIDE REACH
G2.3 1/4" = 1'-0"



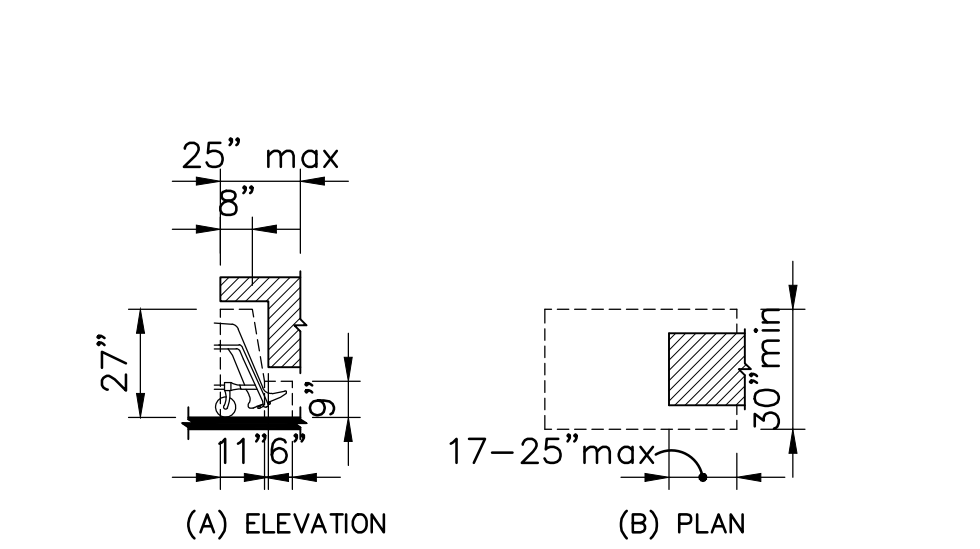
25 CIRCULAR TURNING SPACE
G2.3 1/4" = 1'-0"



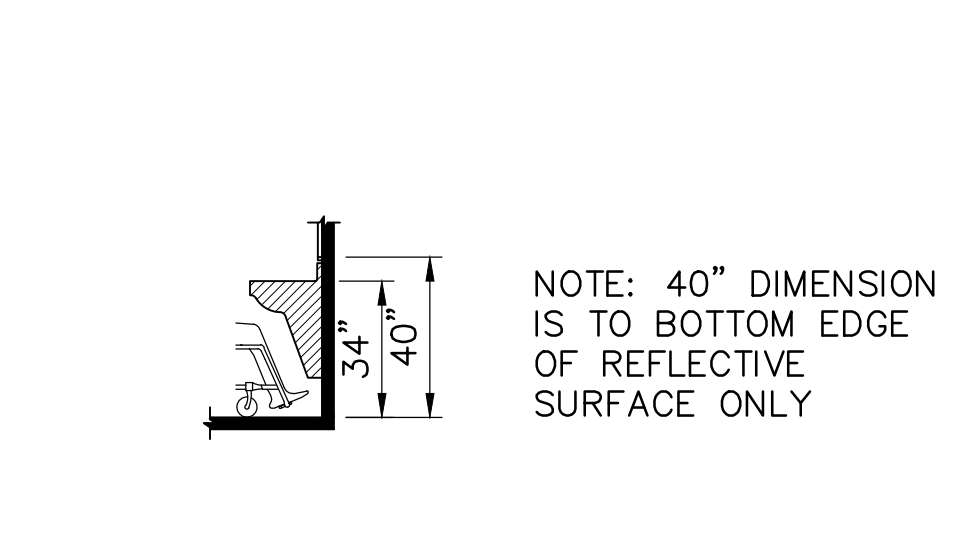
3 ACCESSIBLE WATER CLOSET
G2.3 1/4" = 1'-0"



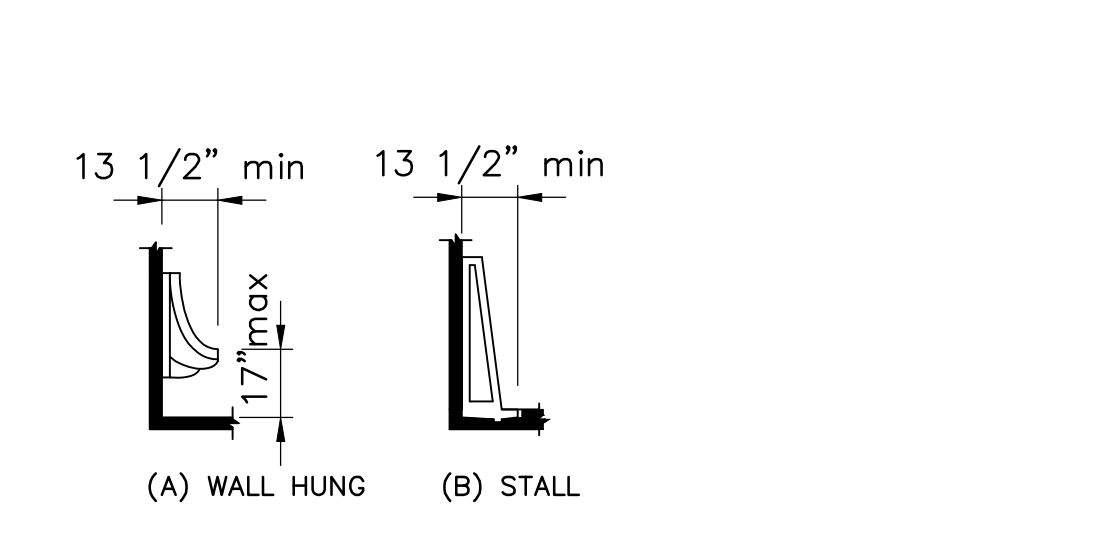
8 GRAB BARS
G2.3 1/4" = 1'-0"



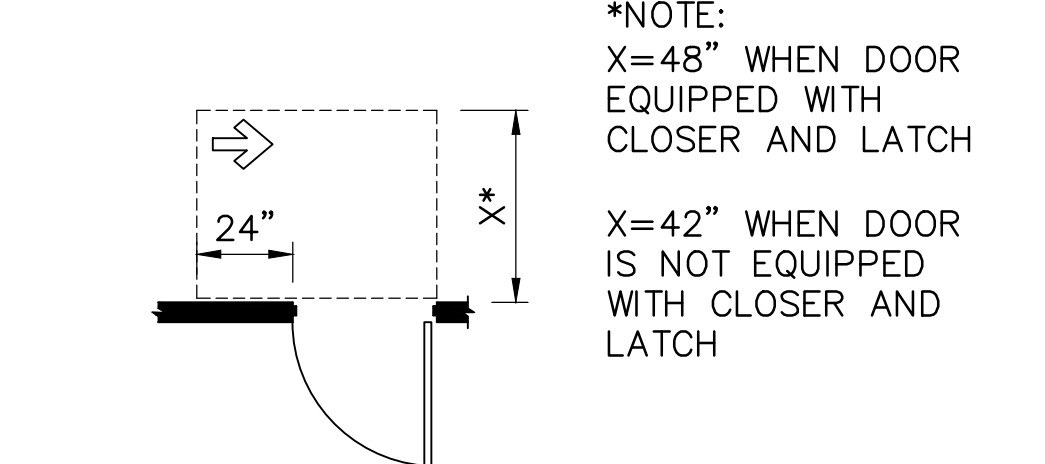
13 TOE & KNEE CLEARANCES
G2.3 1/4" = 1'-0"



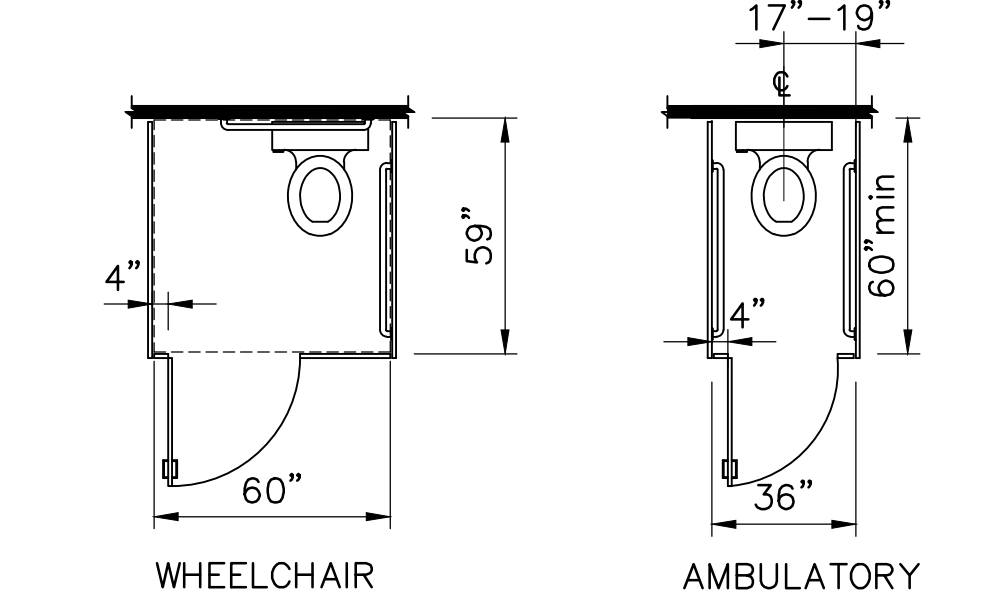
18 SINK & MIRROR HEIGHTS
G2.3 1/4" = 1'-0"



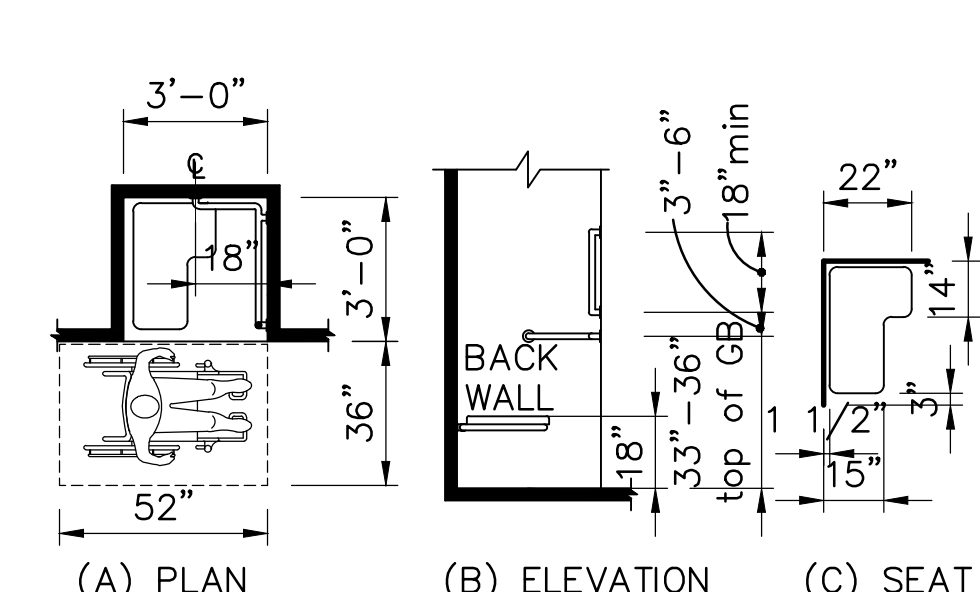
22 URINALS
G2.3 1/4" = 1'-0"



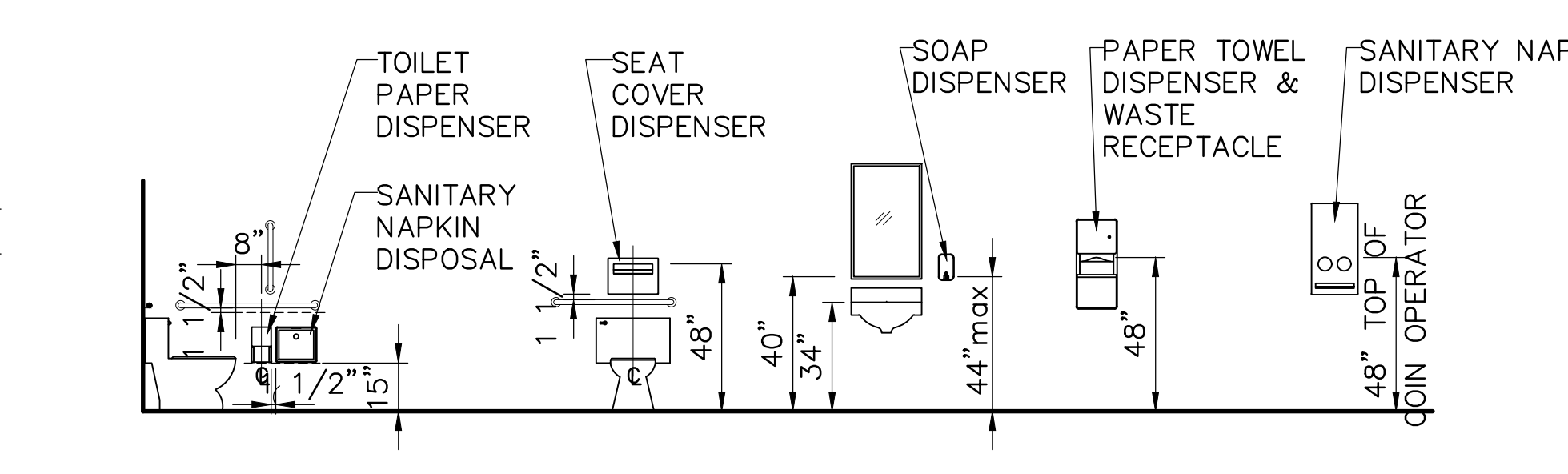
26 SIDE APPROACH LATCH-PUSH
G2.3 1/4" = 1'-0"



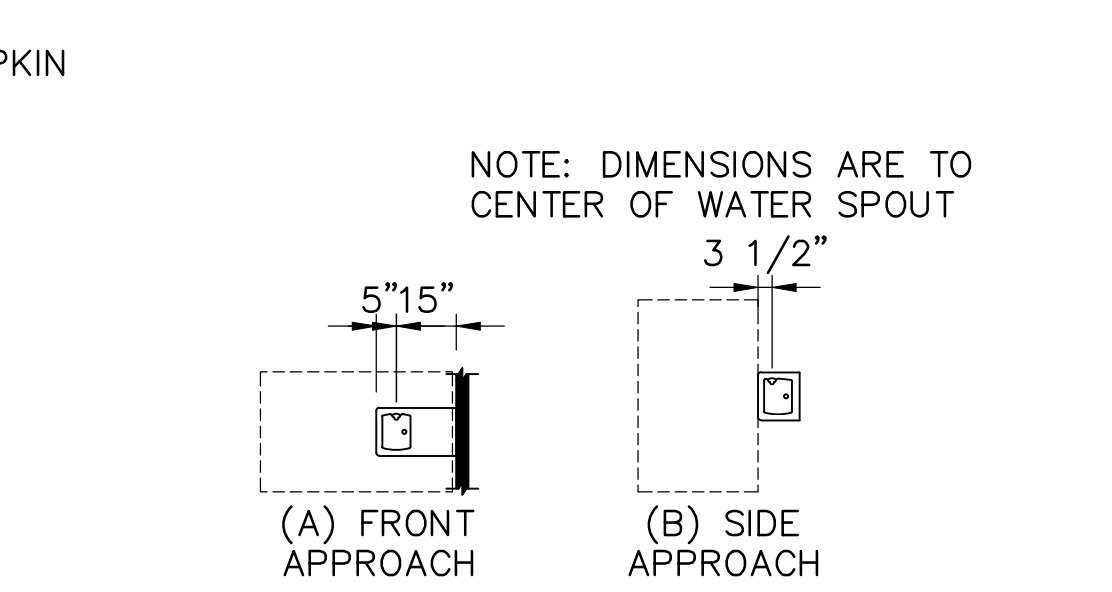
4 ACCESSIBLE STALL CLEARANCE
G2.3 1/4" = 1'-0"



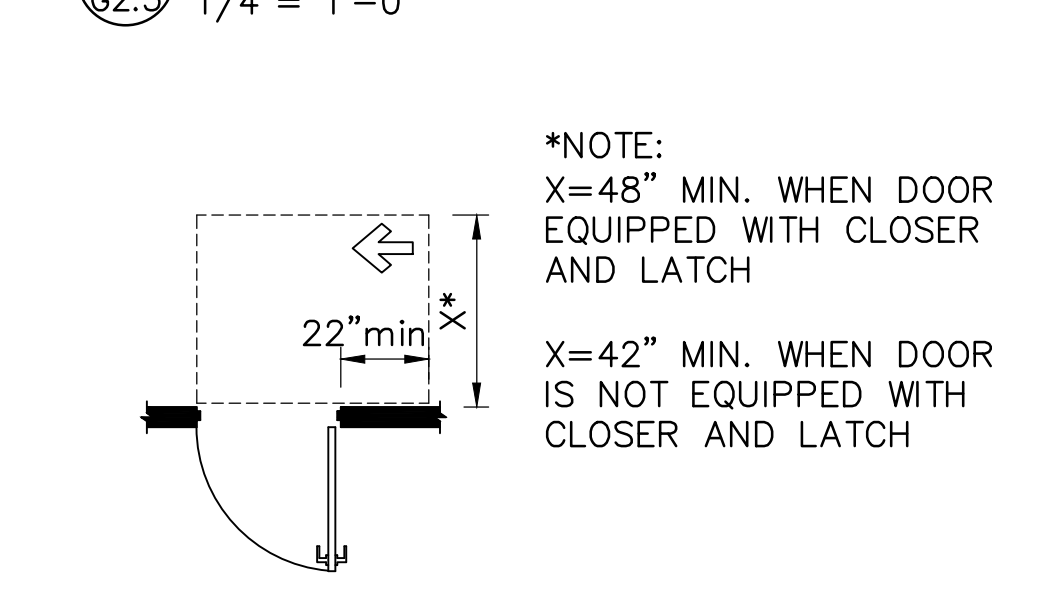
9 SHOWER CLEARANCE
G2.3 1/4" = 1'-0"



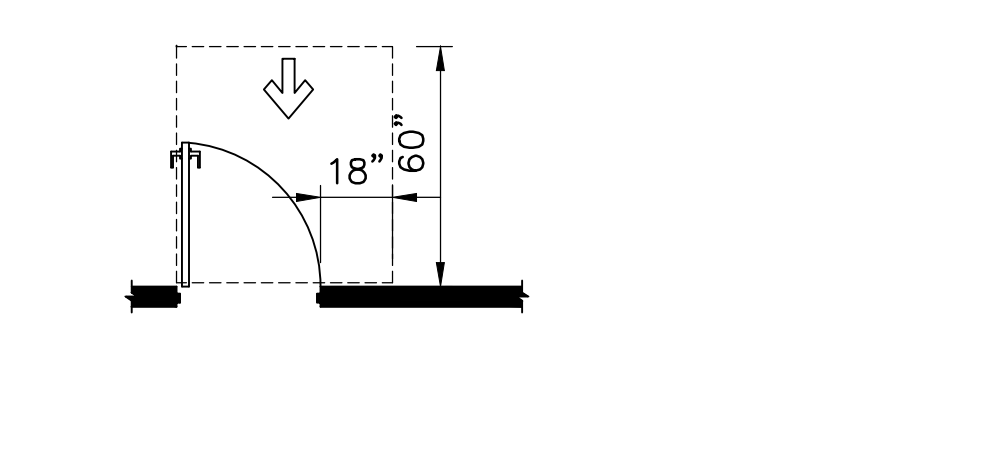
14 TYPICAL LAVATORY ACCESSORY MOUNTING HEIGHTS
G2.3 1/4" = 1'-0"



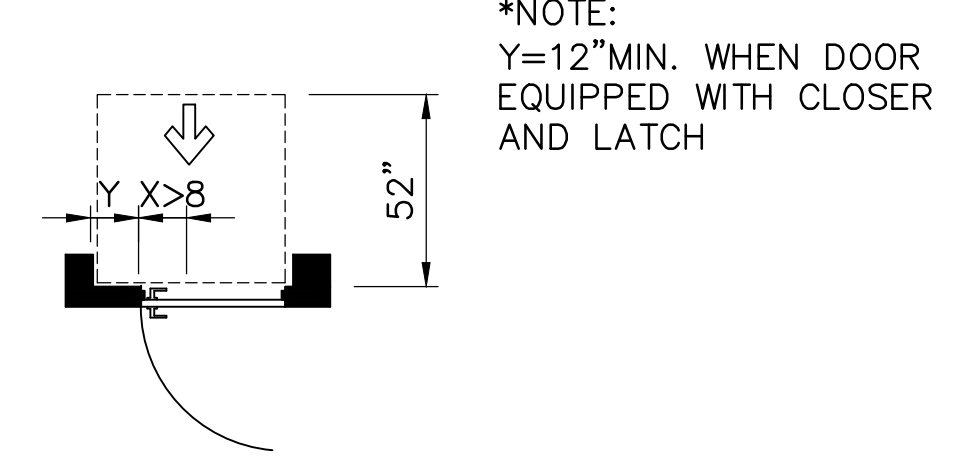
23 DRINKING FOUNTAIN SPOUT LOCATION
G2.3 1/4" = 1'-0"



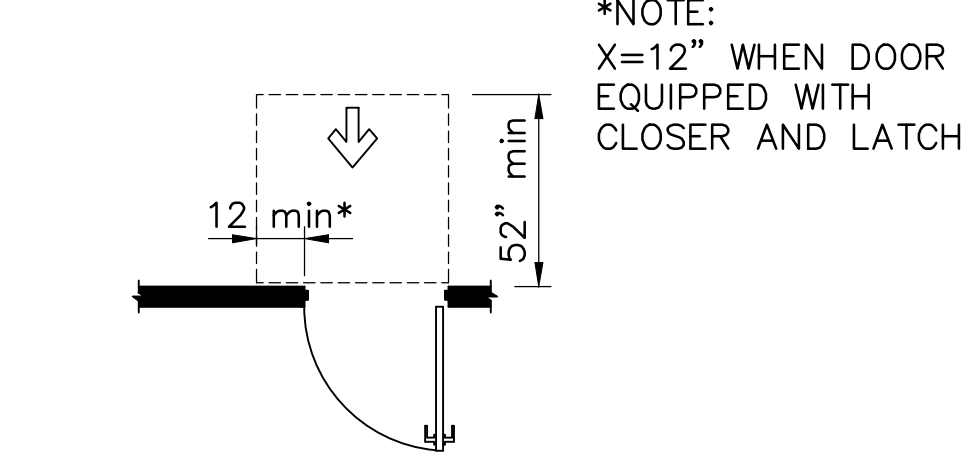
27 HINGE APPROACH - PUSH SIDE
G2.3 1/4" = 1'-0"



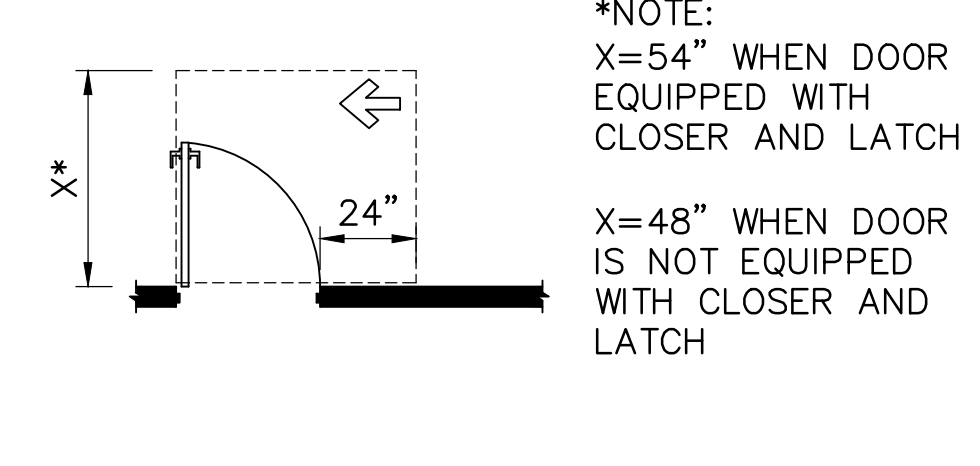
5 FRONT APPROACH-PULL SIDE
G2.3 1/4" = 1'-0"



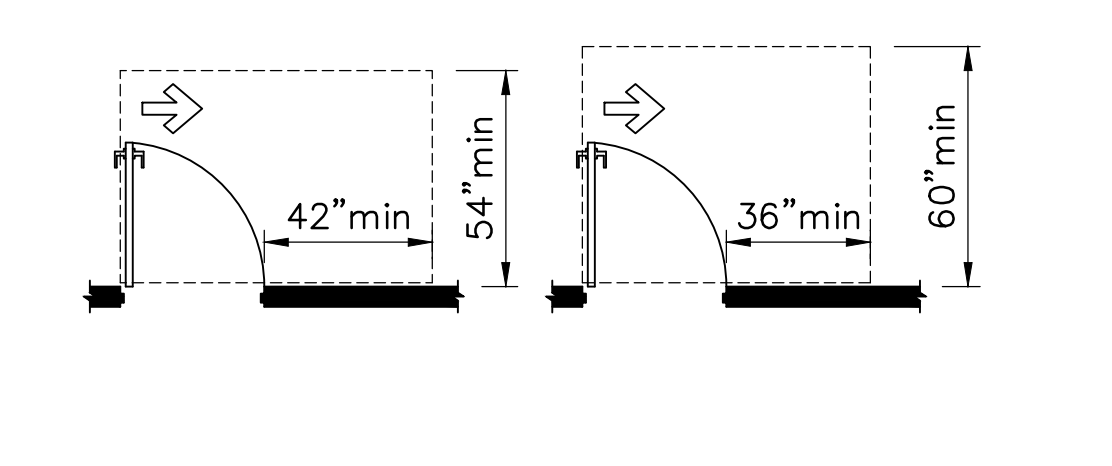
10 RECESSED DOOR-PUSH SIDE
G2.3 1/4" = 1'-0"



15 FRONT APPROACH-PUSH SIDE
G2.3 1/4" = 1'-0"



19 SIDE APPROACH LATCH-PULL
G2.3 1/4" = 1'-0"



24 HINGE APPROACH - PULL SIDE
G2.3 1/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

REVISIONS

VERIFY SCALE
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

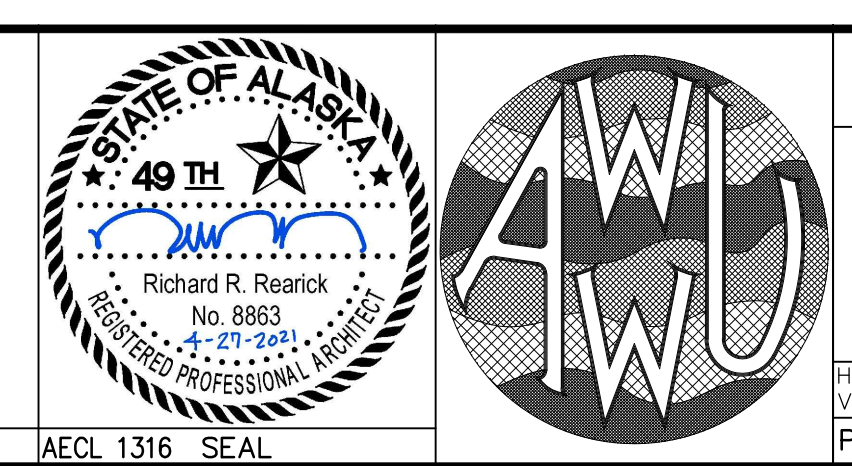
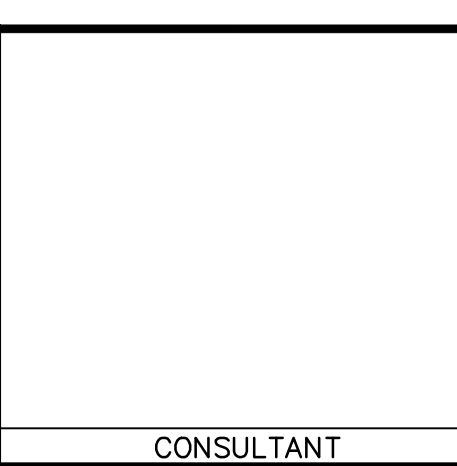
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DATE: _____ TITLE: _____
BY: _____

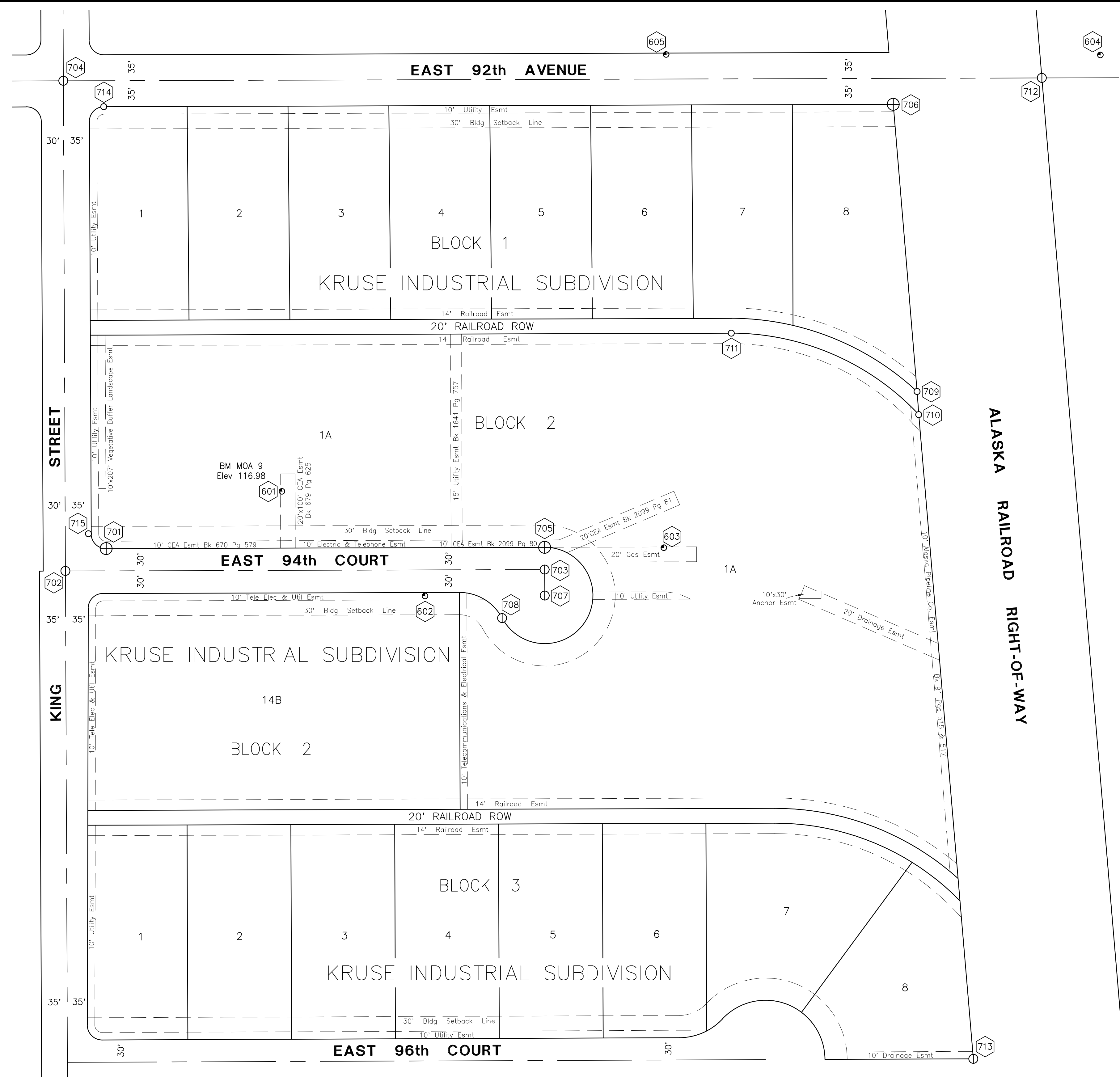
2. DATA TRANSFERRED BY:
COMPANY: _____
DATE: _____

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COMPANY: _____
DATE: _____ TITLE: _____
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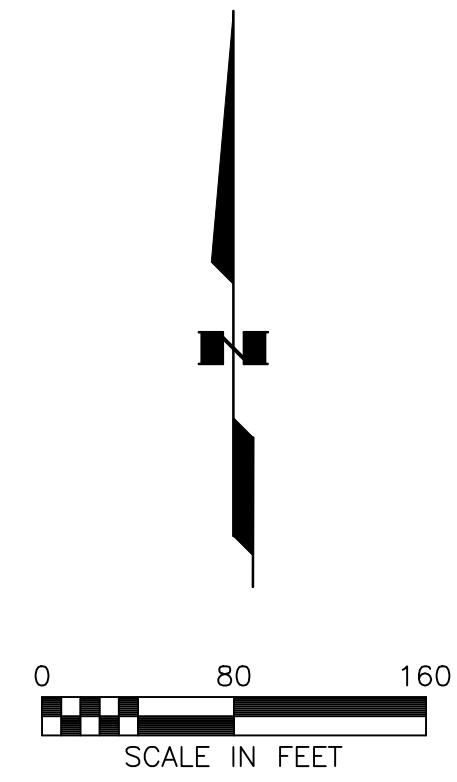
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COORDINATE SCHEDULE				
Point	Northing	Easting	Elevation	Description
601	2607139	1662116	116.98	Found 2 1/2" Brass Cap - Bench Mark MOA 9
602	2606998	1662309	121.03	Scribed "X" in NW'ly base bolt of a Metal Light Pole
603	2607063	1662631	122.70	Scribed "X" in NE flange bolt of hydrant
604	2607727	1663220	117.57	Scribed "X" in N'ly flange bolt of hydrant
605	2607728	1662634	116.38	Scribed "X" in N'ly flange bolt of hydrant
701	2607061.8324	1661879.0049		Found 2 1/2" Aluminum Cap Monument
702	2607031.7903	1661824.0005		Found 2" ALCAP in a Monument Case
703	2607033.6042	1662470.2828		Found 2" ALCAP in a Monument Case
704	2607692.6787	1661821.2344		Found 2" ALCAP in a Monument Case
705	2607063.6241	1662470.2094		Found 2 1/2" Aluminum Cap Monument
706	2607660.9371	1662940.3321		Found 3 1/4" Brass Cap Monument
707	2606998.5944	1662470.4115	119.35	Found 2" ALCAP on 5/8" Rebar in a Monument Case
708	2606968.1970	1662412.9940		Found 2" ALCAP on 5/8" Rebar
709	2607273.6317	1662972.4178		Found 5/8" Rebar
710	2607242.5403	1662974.8096		Found 5/8" Rebar
711	2607352.3349	1662721.9700		Found 5/8" Rebar
712	2607696.5588	1663140.7321		Found 2" ALCAP
713	2606373.8639	1663048.2852		Found Yellow Plastic Cap
714	2607657.8038	1661875.7839		Found 5/8" Rebar
715	2607081.8518	1661855.1637		Found 5/8" Rebar



SURVEY NOTES

- Field surveys were performed by R&M Consultants, Inc. between February and November, 2016. Field survey information for this project is located in R&M Field Books 2305.04, Nos. 1 & 2.
- A title search was not performed, easements of record other than those shown on the recorded plats are not shown hereon.
- All disturbed property corners shall be replaced by the contractor in accordance with the M.O.A. Standard Specifications, Section 65.02 Construction Surveying, Article 2.1 Project Control.
- The Basis of Bearings is NAD83(2011) (EPOCH 2010.0000) Alaska State Plane Zone 4 grid from GPS observations.
- Coordinates are NAD83(2011) (EPOCH 2010.0000) Alaska State Plane Zone 4, expressed in U.S. Survey Feet. The Basis of Coordinates is Point No. 701. The coordinates of Point No. 701 were established as the average position obtained by sending two 6 hour static GPS observations to the NGS OPUS utility for processing.
- To convert from NAD83(2011) (EPOCH 2010.0000) Alaska State Plane Zone 4 coordinates to Anchorage Bowl 2000 coordinates: Scale using 1.0001089927 and then Translate using -2,296,869.1713 N, -1,312,516.9847 E.
- Elevations are based on the M.O.A. Vertical Datum 1972 N.G.S. Adjustment. The Basis of Elevations is Bench Mark "MOA 9", a 2 1/2" Brass Cap set flush with concrete, located 4.8' east of the SW corner of the AWWU Maintenance and Operations Building, Elev.=116.98'. See M.O.A. Benchmark Book, Description Page D-59.

LEGEND

- ⊕ Found Primary Monument
- ⊙ Found Rebar With Alum. or Plastic Cap
- Found 5/8" or 1/2" Rebar
- Project Bench Mark or TBM
- ⦿ Survey Control Point Number
See Coordinate Schedule

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
 This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____
 DATE: _____ TITLE: _____
 BY: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____
 DATE: _____ TITLE: _____
 BY: _____

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 6700 Arctic Spur Road
 Anchorage, AK 99518 (907) 677-8220
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 Anchorage, Alaska 99507
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 907 522 3404 fax
 www.rmconsult.com
 SUB-CONSULTANT

STATE OF ALASKA
 49th
 Randal H. Brinker
 No. LS-8852
 4/25/21
 REGISTERED PROFESSIONAL LAND SURVEYOR
 SEAL

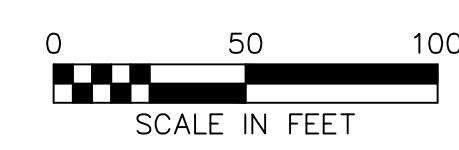
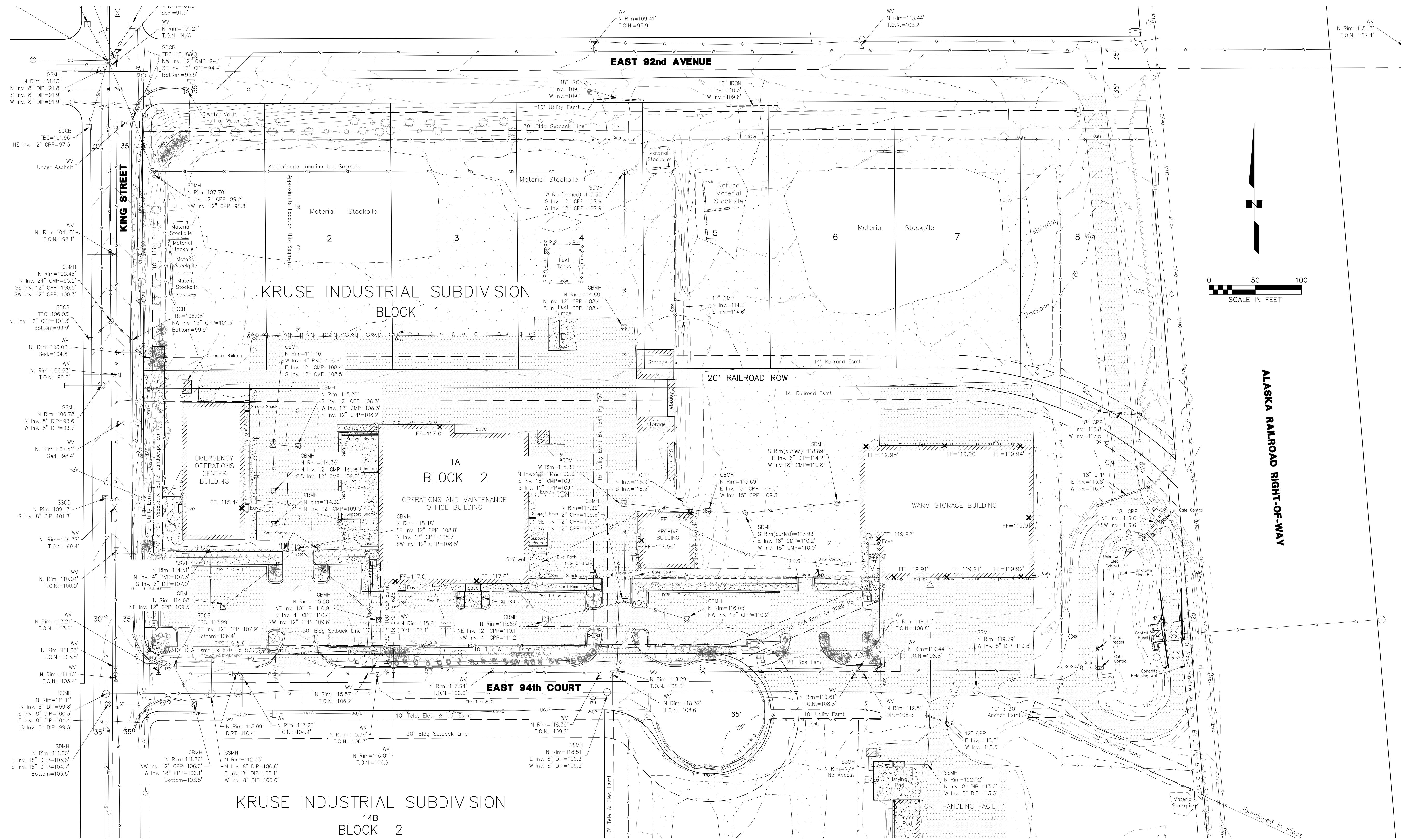
MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

SURVEY CONTROL

HORIZ SCALE: 1"=80'
 VERT SCALE: N/A
 DATE: APRIL 2021
 GRID: SW 2431
 PROJ. ID.: WW.H7775

DWG
V.01
 SHEET 11 of 288



ALASKA RAILROAD RIGHT-OF-WAY

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
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 CONTRACTOR: _____
 DATE: _____ TITLE: _____
 BY: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

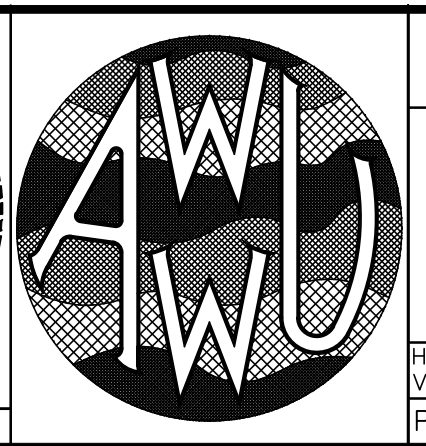
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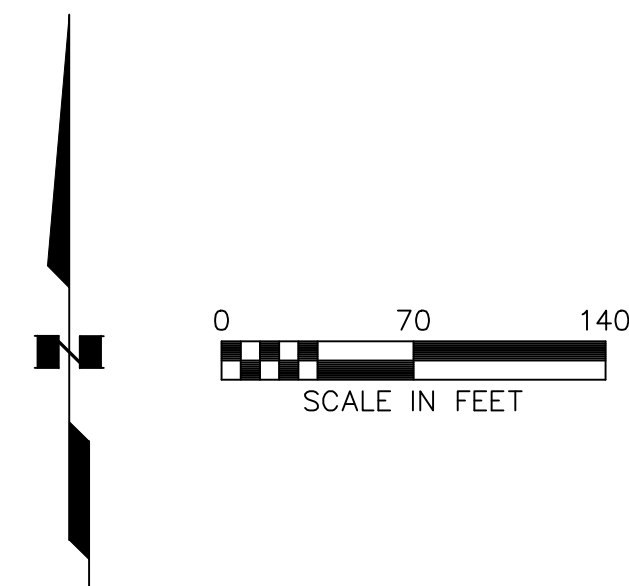
MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

SURVEY BASE MAP

HORZ SCALE: 1"=50'
 VERT SCALE: N/A
 DATE: APRIL 2021
 GRID: SW 2431
 PROJ. ID.: WW.H7775

DWG
V.02
 SHEET 12 of 288



SURVEY NOTES

- Field surveys were performed by R&M Consultants, Inc. between February and November, 2016. Field survey information for this project is located in R&M Field Books 2305.04., Nos. 1 & 2.
- A title search was not performed, easements of record other than those shown on the recorded plats are not shown hereon.
- The Basis of Bearings is NAD83(2011) (EPOCH 2010.0000) Alaska State Plane Zone 4 grid from GPS observations.
- Coordinates are NAD83(2011) (EPOCH 2010.0000) Alaska State Plane Zone 4, expressed in U.S. Survey Feet. The Basis of Coordinates is Point No. 701. The coordinates of Point No. 701 were established as the average position obtained by sending two 6 hour static GPS observations to the NGS OPUS utility for processing.
- Elevations are based on the M.O.A. Vertical Datum 1972 N.G.S. Adjustment. The Basis of Elevations is Bench Mark "MOA 9", a 2 1/2" Brass Cap set flush with concrete, located 4.8' east of the SW corner of the AWU Maintenance and Operations Building, Elev.=116.98'. See M.O.A. Benchmark Book, Description Page D-59.

SURVEYOR'S CERTIFICATE

I, Randal H. Brinker, hereby certify that I am a registered professional land surveyor in the state of Alaska and that this drawing represents a survey made by me or under my direct supervision, and that the monuments shown on this drawing actually exist as described, and that all dimensions and other details are true and correct to the best of my knowledge.

Randal H. Brinker
 RANDAL H. BRINKER, L.S. 8852
 4/26/21
 Date

Δ=87°51'26"
 R=20.00'
 L=30.67'
 T=19.27'
 C=27.75'
 CB=N44°07'22"E

Δ=90°22'17"
 R=20.00'
 L=31.55'
 T=20.13'
 C=28.38'
 CB=N45°25'32"W

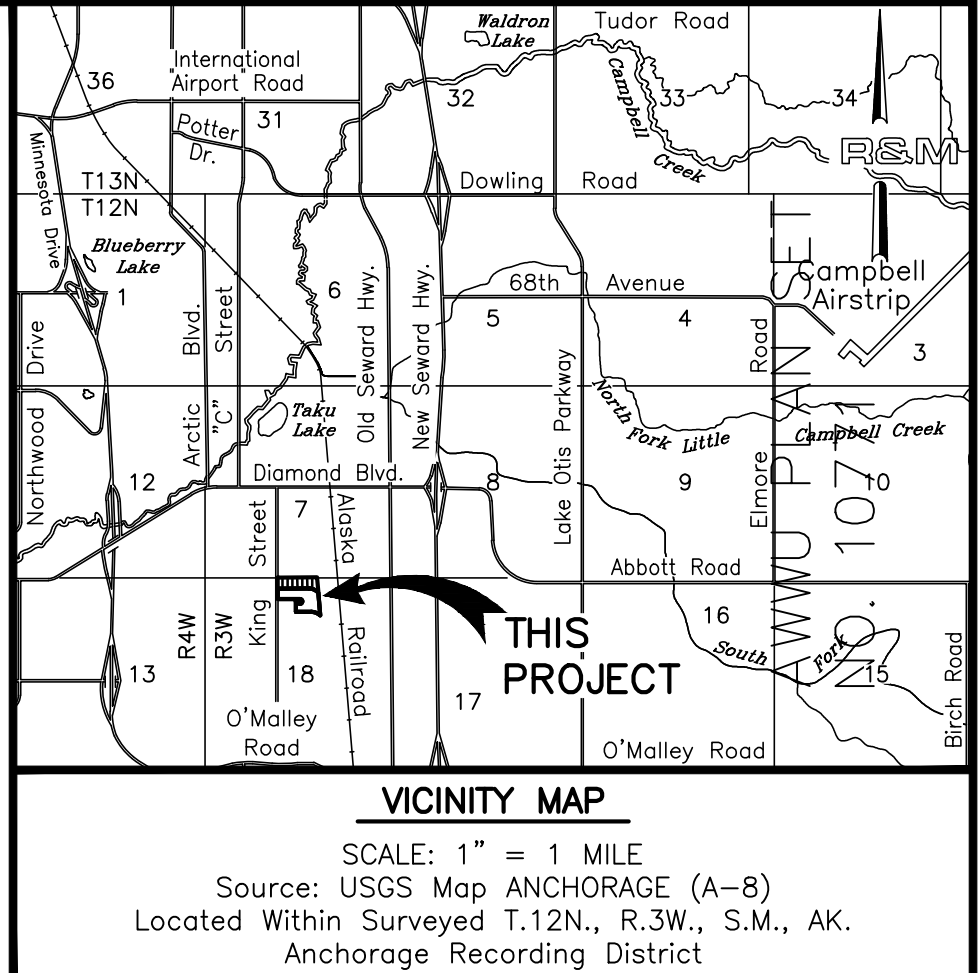
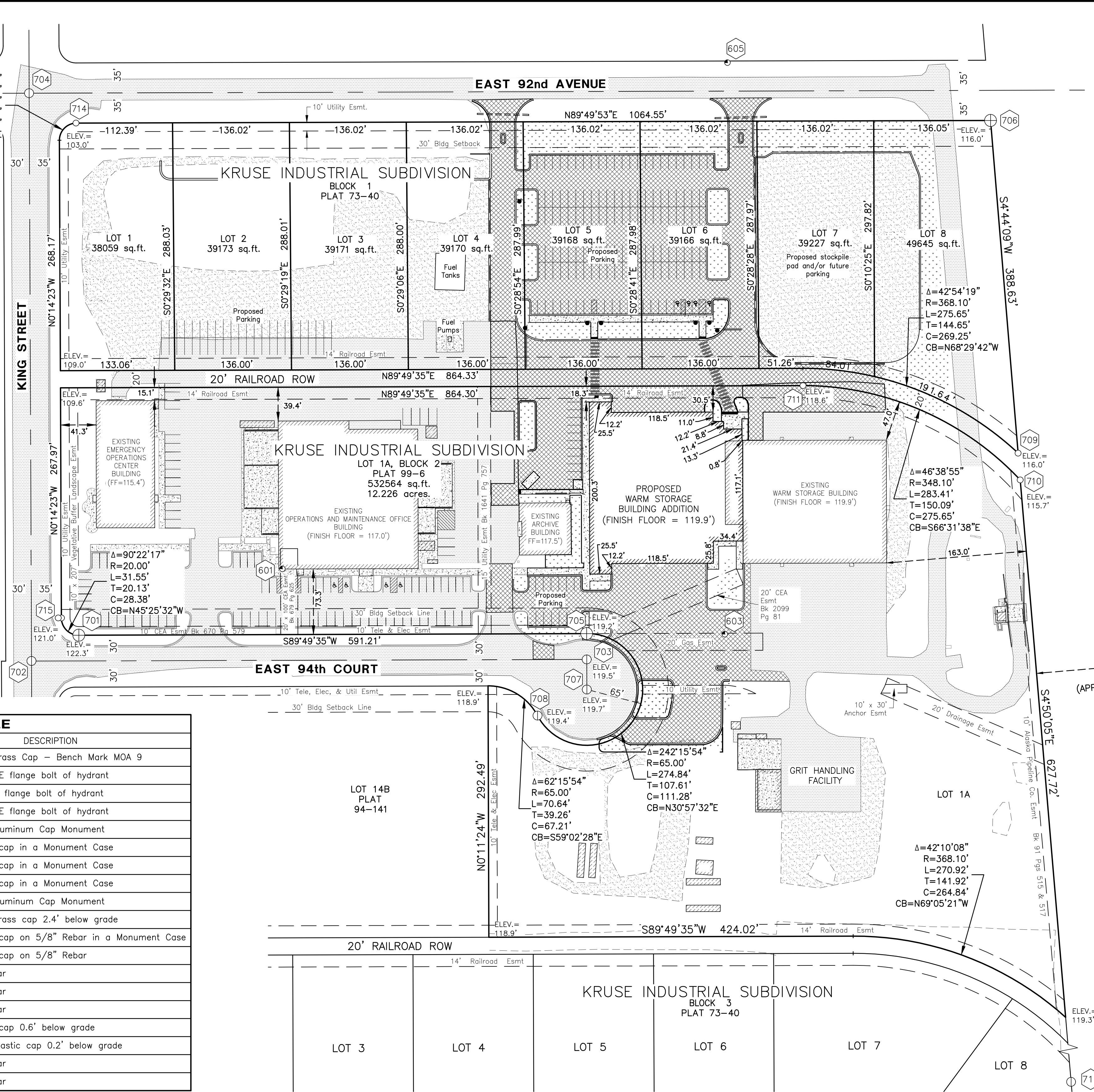
Δ=42°54'19"
 R=368.10'
 L=275.65'
 T=144.65'
 C=269.25'
 CB=N68°29'42"W

Δ=46°38'55"
 R=348.10'
 L=283.41'
 T=150.09'
 C=275.65'
 CB=S66°31'38"E

Δ=242°15'54"
 R=65.00'
 L=274.84'
 T=107.61'
 C=111.28'
 CB=N30°57'32"E

Δ=62°15'54"
 R=65.00'
 L=70.64'
 T=39.26'
 C=67.21'
 CB=S59°02'28"E

Δ=42°10'08"
 R=368.10'
 L=270.92'
 T=141.92'
 C=264.84'
 CB=N69°05'21"W



LEGEND EXISTING

- ⊕ FOUND PRIMARY MONUMENT
- ⊙ FOUND REBAR WITH ALUM. OR PLASTIC CAP
- FOUND REBAR
- ⊙ VERTICAL BENCH MARK OR TBM
- ⊙ SURVEY CONTROL POINT (SEE TABLE)
- S— UNDERGROUND SEWER LINE
- SD— UNDERGROUND STORM DRAIN
- W— UNDERGROUND WATER LINE
- UE/E— UNDERGROUND ELECTRIC LINE
- UE/T— UNDERGROUND TELEPHONE LINE
- OH/E— OVERHEAD ELECTRIC LINE
- FO— UNDERGROUND FIBER OPTIC LINE
- G— UNDERGROUND GAS LINE
- x—x—x— CHAIN LINK FENCE
- 12.5— CONTOUR LINE
- ⊗ WATER VALVE
- ⊙ FIRE HYDRANT
- ⊙ STORM DRAIN MANHOLE
- ⊙ STORM DRAIN CATCHBASIN MANHOLE
- ⊙ SANITARY SEWER MANHOLE
- ⊙ SEWER SERVICE CLEANOUT
- ⊙ UTILITY POLE
- ⊙ LIGHT POLE
- ⊙ NATURAL GAS METER
- ⊙ STREET SIGN
- ⊙ POST OR BOLLARD
- ⊙ JERSEY BARRIER
- ==== CULVERT
- DRAINAGE SLOPE DIRECTION
- CONCRETE STRUCTURE
- ASPHALT GRAVEL

LEGEND PROPOSED

- x—x—x— CHAIN LINK FENCE
- S— UNDERGROUND STORM DRAIN
- S— UNDERGROUND SEWER LINE
- G— UNDERGROUND GAS LINE
- E— UNDERGROUND ELECTRIC LINE
- ⊙ ⊙ ⊙ scco STORM MANHOLE, CATCH BASIN, CLEANOUT
- SEWER MANHOLE
- ASPHALT
- LANDSCAPING

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
601	2607139	1662116	116.98	Found 2 1/2" Brass Cap - Bench Mark MOA 9
603	2607063	1662631	122.70	Scribed "x" in NE flange bolt of hydrant
604	2607727	1663219	117.57	Scribed "x" in N flange bolt of hydrant
605	2607728	1662634	116.38	Scribed "x" in NE flange bolt of hydrant
701	2607061.8324	1661879.0049		Found 2 1/2" Aluminum Cap Monument
702	2607031.7903	1661824.0005		Found 2" Alum. cap in a Monument Case
703	2607033.6042	1662470.2828		Found 2" Alum. cap in a Monument Case
704	2607692.6787	1661821.2344		Found 2" Alum. cap in a Monument Case
705	2607063.6241	1662470.2094		Found 2 1/2" Aluminum Cap Monument
706	2607660.9371	1662940.3321		Found 3 1/4" Brass cap 2.4' below grade
707	2606998.5944	1662470.4115		Found 2" Alum. cap on 5/8" Rebar in a Monument Case
708	2606968.1970	1662412.9940		Found 2" Alum. cap on 5/8" Rebar
709	2607273.6317	1662972.4178		Found 5/8" Rebar
710	2607242.5403	1662974.8096		Found 5/8" Rebar
711	2607352.3349	1662721.9700		Found 5/8" Rebar
712	2607696.5588	1663140.7321		Found 2" Alum. cap 0.6' below grade
713	2606373.8639	1663048.2852		Found 1 1/4" Plastic cap 0.2' below grade
714	2607657.8038	1661875.7839		Found 5/8" Rebar
715	2607081.8518	1661855.1637		Found 5/8" Rebar

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

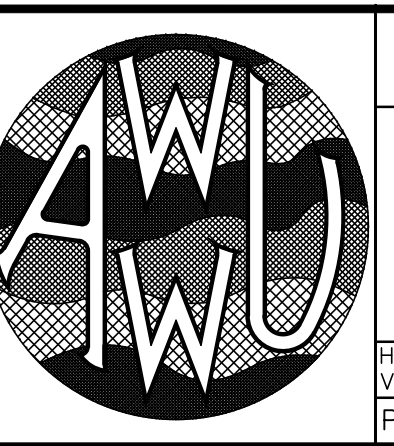
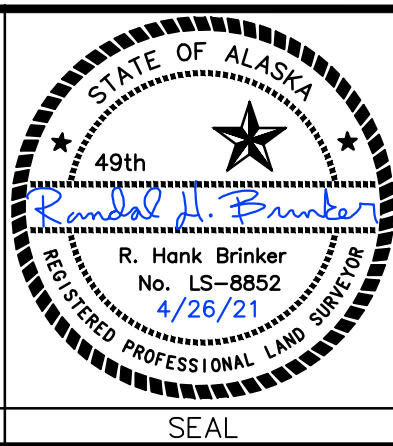
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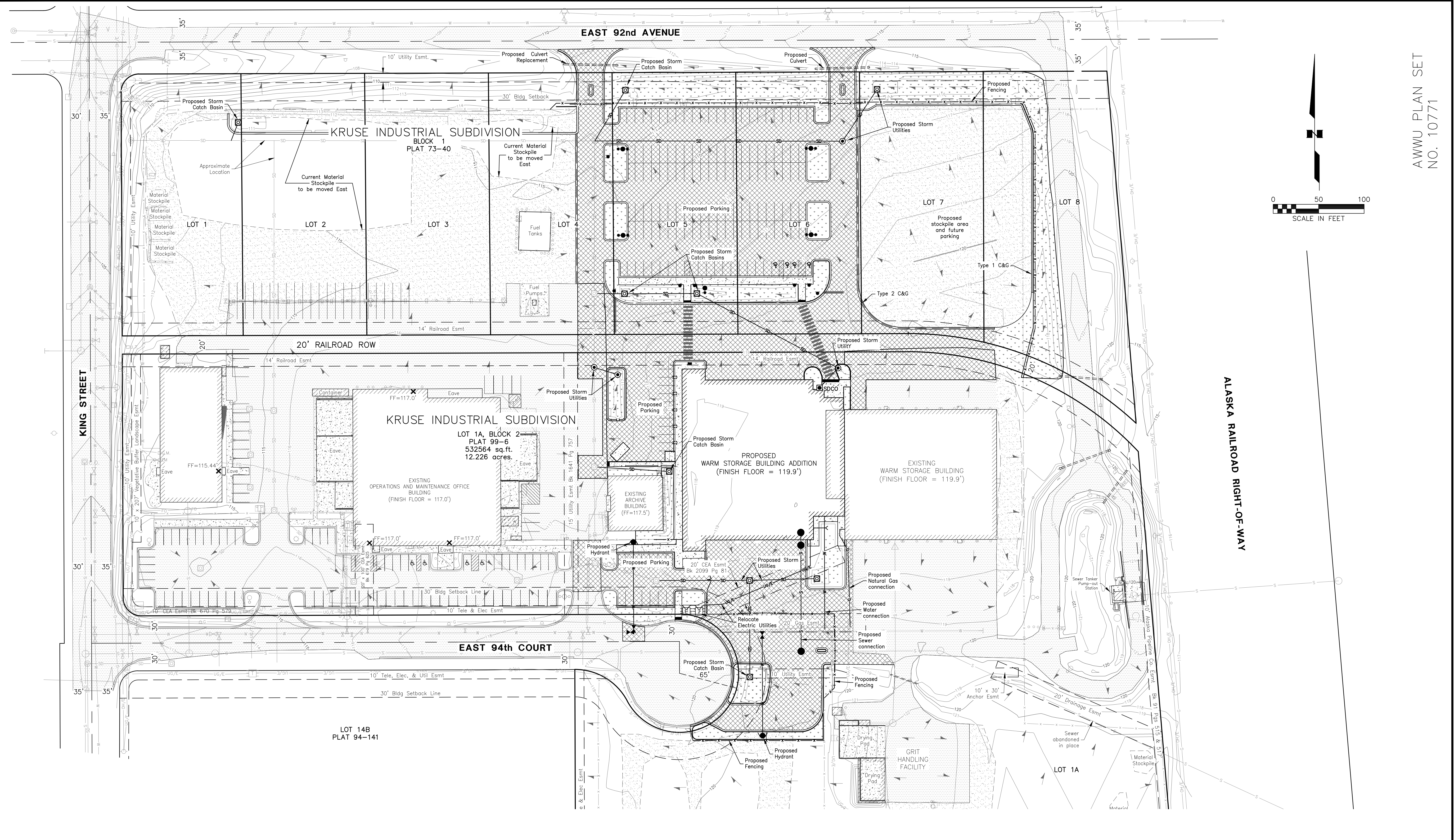
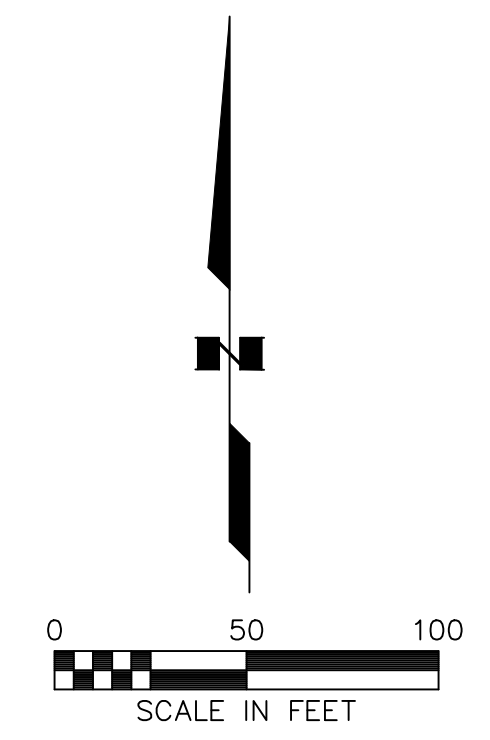


MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT DWG

PLOT PLAN V1.1

HORZ SCALE: 1"=70' DATE: APRIL 2021 GRID: SW 2431 SHEET 13 of 288
 VERT SCALE: N/A PROJ. ID.: WW.H7775



VERIFY SCALE
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
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CONTRACTOR: _____
DATE: _____ TITLE: _____
BY: _____

2. DATA TRANSFERRED BY: _____
COMPANY: _____
DATE: _____

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DATA TRANSFER CHECKED BY: _____
DATE: _____ TITLE: _____
BY: _____

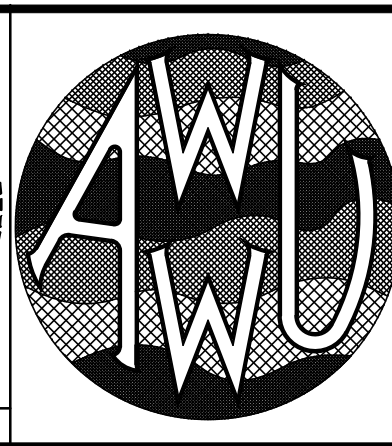
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REGISTERED PROFESSIONAL LAND SURVEYOR
SEAL



MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

ENLARGED PLOT PLAN

DWG
V1.2

HORIZ SCALE: 1"=50'
VERT SCALE: N/A
DATE: APRIL 2021
GRID: SW 2431
PROJ. ID.: WW:H7775

SHEET 14 of 288

LEGEND

EXISTING	PROPOSED	
---	---	PROPERTY LINE
---	---	EASEMENT LINE
---	---	CENTERLINE
OH/C	---	OVERHEAD CABLE TV LINE
UG/C	---	UNDERGROUND CABLE TV LINE
OH/E	---	OVERHEAD ELECTRIC LINE
UG/E	UG/E	UNDERGROUND ELECTRIC LINE
OH/T	---	OVERHEAD TELEPHONE LINE
UG/T	---	UNDERGROUND TELEPHONE LINE
G	G	NATURAL GAS LINE
S	S	SANITARY SEWER LINE
SD	SD	STORM DRAIN LINE
W	W	WATER LINE
FO	---	FIBER OPTIC
---	---	FENCE
---	---	FALL PROTECTION RAILING
---	TPZ	TREE PROTECTION ZONE
---	---	DRAINAGE SWALE
---	---	GRAVEL EDGE
---	---	EDGE OF TREES
---	---	MAJOR CONTOUR
---	---	MINOR CONTOUR
---	---	CULVERT
---	---	BUILDING
---	---	CONCRETE
---	---	CURB AND GUTTER
---	---	AC PAVEMENT
---	---	GRAVEL
---	---	BIORETENTION AREA
---	---	FILTER ROCK
---	---	DRAIN ROCK
---	---	SEEDED AREA (SEE LANDSCAPE)
---	---	PLANTED AREA (SEE LANDSCAPE)

SYMBOLS

EXISTING	PROPOSED	
o	o	POST / BOLLARD
o	o	SIGN
o	o	UTILITY POLE
o	o	LUMINAIRE
o	o	GUY WIRE
o	o	FIRE HYDRANT
o	o	WATER GATE VALVE
o	o	WATER ENDCAP
o	o	STORM DRAIN MANHOLE
o	o	STORM DRAIN CLEANOUT
o	o	CATCH BASIN MANHOLE
o	o	CATCH BASIN
o	o	FIRE DEPARTMENT CONNECTION
o	o	SANITARY SEWER CLEANOUT
o	o	SANITARY SEWER MANHOLE
o	o	GAS METER
o	o	FIBER OPTIC VAULT
o	o	ELECTRICAL SWITCH
o	o	ELECTRIC METER
o	o	ELECTRIC VAULT / MANHOLE / CABINET
o	o	ELECTRICAL TRANSFORMER
o	o	ELECTRICAL OUTLET / HEADBOLT PLUG-IN
o	o	WATER LEVEL
o	o	TREE, SHRUB OR VEGETATION
o	o	EVERGREEN TREE
o	o	DECIDUOUS TREE
o	o	ROCK
o	o	SPOT ELEVATION
o	o	DRAINAGE FLOW ARROW

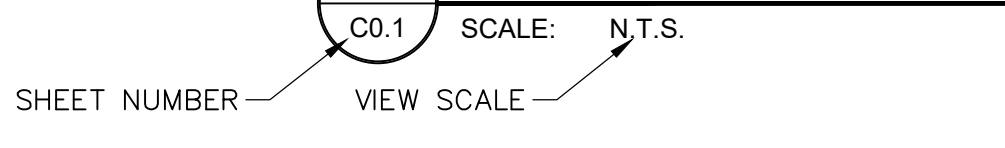
ABBREVIATIONS

AC	ASPHALT CONCRETE	F&I	FURNISH AND INSTALL	R/W	RIGHT OF WAY
ALT	ALTERNATE	GR	TOP OF GRATE	S	SOUTH / SLOPE
APPROX	APPROXIMATE	GALV	GALVANIZED	SCHED	SCHEDULE
ARCH	ARCHITECT(URAL)	HDPE	HIGH-DENSITY POLYETHYLENE	SD	STORM DRAIN
AWWU	ANCHORAGE WATER & WASTEWATER UTILITY	HORIZ	HORIZONTAL	SDMH	STORM DRAIN MANHOLE
B-#	SOIL BORING NUMBER	HVAC	HEATING VENTILATION & AIR CONDITIONING	SEC	SECTION
BLDG	BUILDING	ID	INSIDE DIAMETER	SERV	SERVICE
BM	BENCH MARK	INCL	INCLUDE(D), INCLUDING	SF	SQUARE FOOT
BP	BOTTOM OF PIPE / BEGINING OF PAVING	INV	INVERT	SHT	SHEET
BOT	BOTTOM	K	VERTICAL CURVE	SIM	SIMILAR
BVCE	BEGIN VERTICAL CURVE ELEVATION	LF	LINEAR FEET	SQ	SQUARE
BVCS	BEGIN VERTICAL CURVE STATION	LVC	LENGTH OF VERTICAL CURVE	SS	SANITARY SEWER
CAP	CORRUGATED ALUMINUM PIPE	MAX	MAXIMUM	SSCO	SANITARY SEWER CLEAN OUT
CB	CATCH BASIN	MASS	MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS	SSMH	SANITARY SEWER MANHOLE
CBMH	CATCH BASIN MANHOLE	MH	MANHOLE	SSTL	STAINLESS STEEL
CEA	CHUGACH ELECTRIC ASSOCIATION	MIN	MINIMUM	STA	STATION
CMP	CORRUGATED METAL PIPE	MISC	MISCELLANEOUS	STD	STANDARD
CPEP	CORRUGATED POLYETHYLENE PIPE	MOA	MUNICIPALITY OF ANCHORAGE	TBC	TOP BACK OF CURB
CPP	CORRUGATED POLYETHYLENE PIPE	N	NORTH / NORTHING	TBM	TEMPORARY BENCH MARK
CSP	CORRUGATED STEEL PIPE	NIC	NOT IN CONTRACT	TELE	TELEPHONE
CO	CLEAN OUT	NTS	NOT TO SCALE	TEMP	TEMPORARY
CONC	CONCRETE	OC	ON CENTER	TPZ	TREE PROTECTION ZONE
C&G	CURB AND GUTTER	OD	OUTSIDE DIAMETER	TYP	TYPICAL
DET	DETAIL	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	T&B	TOP AND BOTTOM
DIA, ø	DIAMETER	PC	PROPERTY CORNER / POINT OF CURVATURE	T1	TYPE 1 CURB AND GUTTER
DIP	DUCTILE IRON PIPE	PCC	PORTLAND CEMENT CONCRETE / POINT OF COMPOUND CURVATURE	T1A	TYPE 1A CURB AND GUTTER
E	EAST / EASTING	P/L	PROPERTY LINE	T2	TYPE 2 CURB AND GUTTER
EA	EACH	PP	POWER POLE	T3	TYPE 3 CURB AND GUTTER
ELEC	ELECTRIC	PROP	PROPERTY	VERT	VERTICAL
ELEV	ELEVATION	PT	POINT / POINT OF TANGENT	VIF	VERIFY IN FIELD
EP	EDGE OF PAVEMENT	PVC	POLYVINYL CHLORIDE	W	WEST
EQUIP	EQUIPMENT	PVI	POINT OF VERTICAL INTERSECTION	W/	WITH
ESMT	EASEMENT	PVMT	PAVEMENT	W/O	WITHOUT
EVCE	END VERTICAL CURVE ELEVATION	R	RADIUS	WV	WATER VALVE
EVCS	END VERTICAL CURVE STATION	RAP	RECYCLED ASPHALT PAVEMENT	WVSB	WARM VEHICLE STORAGE BUILDING
EXIST	EXISTING	RCS	RIGID STEEL CONDUIT	WWF	WELDED WIRE FABRIC
EG	EXISTING GRADE	RD	ROAD		
E.W.	EACH WAY	REQ'D	REQUIRED		
FF	FINISHED FLOOR ELEVATION				
FG	FINISHED GRADE				
FH	FIRE HYDRANT				

SOIL BORING LEGEND

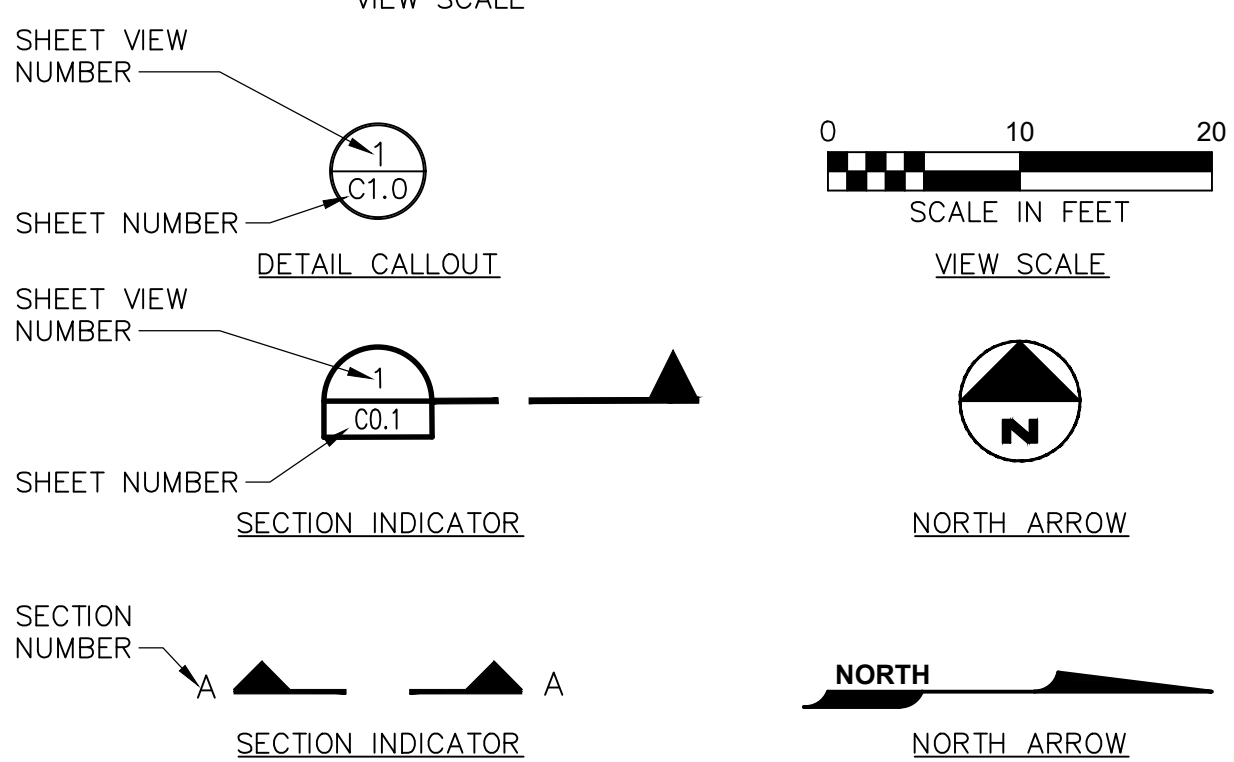
B-#	SOIL BORING
MW	MONITORING WELL
GW	WELL-GRADED GRAVEL; WELL-GRADED GRAVEL WITH SAND
GP	POORLY GRADED GRAVEL; POORLY GRADED GRAVEL WITH SAND
GM	SILTY GRAVEL; SILTY GRAVEL WITH SAND
GC	CLAYEY GRAVEL; CLAYEY GRAVEL WITH SAND
SW	WELL-GRADED SAND; WELL-GRADED SAND WITH GRAVEL
SP	POORLY GRADED SAND; POORLY GRADED SAND WITH GRAVEL
SM	SILTY SAND; SILTY SAND WITH GRAVEL
SC	CLAYEY SAND; CLAYEY SAND WITH GRAVEL
ML	SILT; SILT WITH SAND OR GRAVEL; SANDY OR GRAVELLY SILT
CL	LEAN CLAY; LEAN CLAY WITH SAND OR GRAVEL; SANDY OR GRAVELLY LEAN CLAY
OL	ORGANIC SILT OR CLAY; ORGANIC SILT OR CLAY WITH SAND OR GRAVEL; SANDY OR GRAVELLY ORGANIC SILT OR CLAY
MH	ELASTIC SILT; ELASTIC SILT WITH SAND OR GRAVEL; SANDY OR GRAVELLY ELASTIC SILT
CH	FAT CLAY; FAT CLAY WITH SAND OR GRAVEL; SANDY OR GRAVELLY FAT CLAY
OH	ORGANIC SILT OR CLAY; ORGANIC SILT OR CLAY WITH SAND OR GRAVEL; SANDY OR GRAVELLY ORGANIC SILT OR CLAY
PT	PEAT OR OTHER HIGHLY ORGANIC SOILS (SEE ASTM D4427)
▽	GROUND WATER LEVEL AT TIME OF DRILLING
▽	STATIC WATER LEVEL

TYPICAL DETAIL



SERVICE PROFILE

SCALE: 1" = 20' HORIZONTAL 1" = 2' VERTICAL



REV	DATE	DESCRIPTION	BY

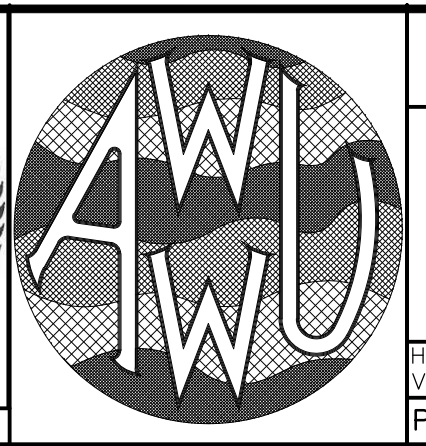
REVISIONS

RECORD DRAWING		REUSE OF DOCUMENTS
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DATE: _____ TITLE: _____	BY: _____	
3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.	DATE: _____ TITLE: _____	

PRIME CONSULTANT

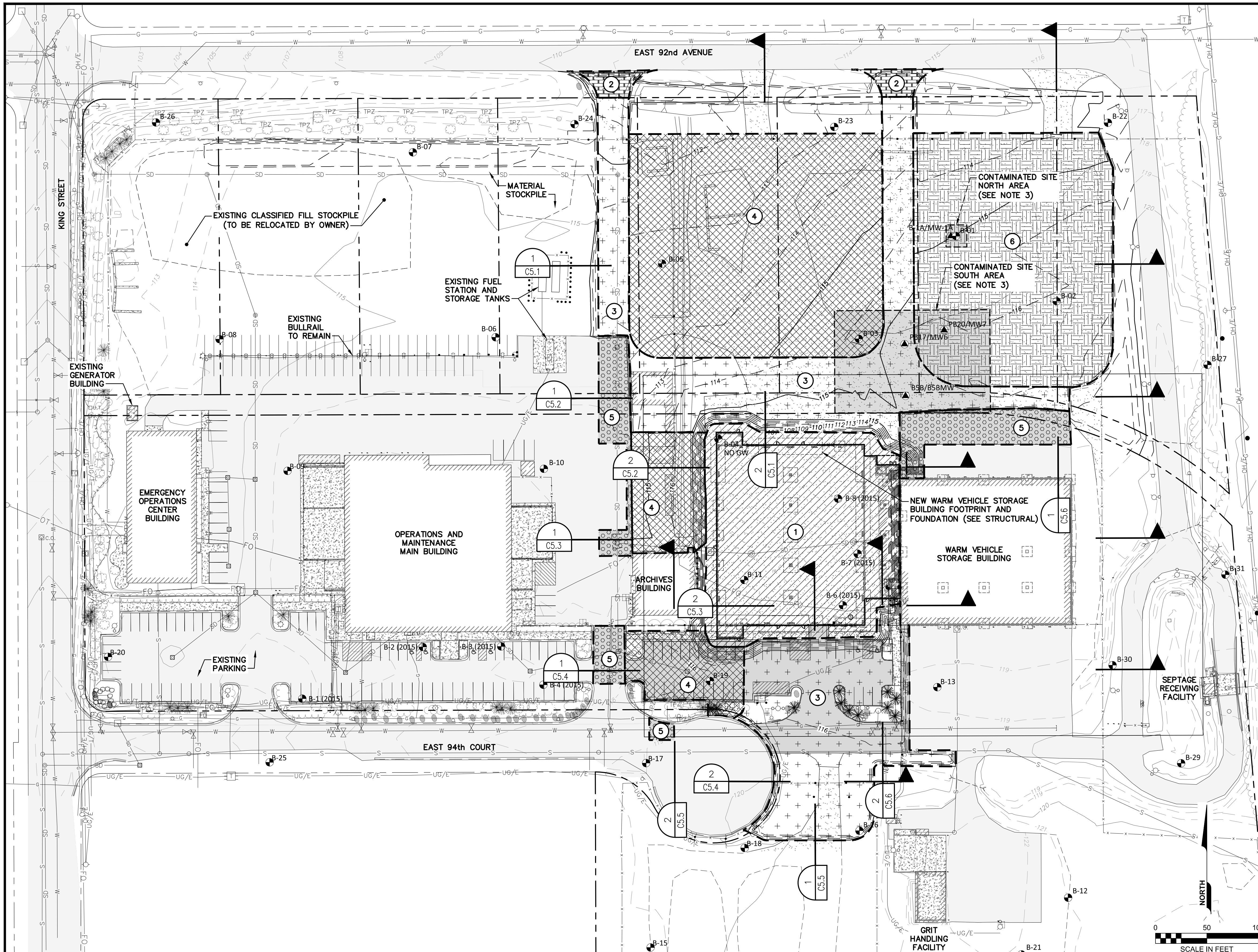


CONSULTANT



MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT		DWG
CIVIL LEGEND, SYMBOLS, & ABBREVIATIONS		C0.1
HORIZ SCALE: AS SHOWN	DATE: APRIL 2021	GRID: SW 2431
VERT SCALE: N/A	PROJ. ID.: WW.H7775	SHEET 15 of 288

AWWU PLAN SET NO. 10771



NOTES

- THE EXCAVATION PLAN SHOWS EXCAVATION WORK ASSOCIATED WITH UNIT PRICE BID ITEMS FOR BID SCHEDULE A AND BID SCHEDULE B. EXCAVATION ASSOCIATED WITH LUMP SUM WORK IN BID SCHEDULE B IS NOT SHOWN, INCLUDING THE FOLLOWING:
 - UTILITIES
 - LANDSCAPING
 - SITE FEATURES WITH FOUNDATIONS SUCH AS LIGHT POLES, SIGNS, GATE OPERATORS, ETC.
- UNDERGROUND ELECTRICAL, TELECOMMUNICATION, WATER, SEWER, STORMWATER, AND NATURAL GAS LINES OCCUR WITHIN THE PROJECT AREA; CONTRACTOR SHALL CONTACT ALASKA 811 DIGLINE AND COORDINATE WORK ACCORDINGLY.
- THE PROJECT SITE CONTAINS TWO AREAS OF KNOWN CONTAMINATION. COORDINATE ALL EXCAVATION ACTIVITIES WITH THE OWNER AND COMPLY WITH SOIL AND GROUNDWATER MANAGEMENT PLAN REQUIREMENTS FOR WORK IN THESE AREAS. NOTIFY THE ENGINEER IMMEDIATELY IF ANY OTHER AREAS OF KNOWN OR SUSPECTED CONTAMINATION ARE ENCOUNTERED DURING EXCAVATION.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS AND ACTIVELY MANAGING STORMWATER AND GROUNDWATER IN EXCAVATIONS. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION AND RECOMMENDATIONS. CONTRACTOR SHALL SUBMIT AN EXCAVATION PLAN FOR APPROVAL IN ACCORDANCE WITH THE SPECIFICATIONS, INCLUDING A DEWATERING PLAN, AT LEAST 14 DAYS PRIOR TO BEGINNING EXCAVATION.
- CONTRACTOR SHALL USE CAUTION EXCAVATING NEAR EXISTING STRUCTURES. DO NOT EXCAVATE WITHIN THE 1:1 BEARING ZONE OF EXISTING FOUNDATIONS.
- MINIMUM EXCAVATION WITHIN THE BUILDING FOUNDATION AREA IS MEASURED FROM EXISTING GRADE. MINIMUM EXCAVATION ELSEWHERE IS MEASURED FROM FINISHED GRADE.
- ALL ORGANIC OR UNSUITABLE MATERIAL SHALL BE REMOVED FROM RIGHT OF WAY PAVEMENT AND UTILITY TRENCH SUBGRADES. THE CONTRACTOR SHALL EXCAVATE TO THE DEPTHS INDICATED ON THE DETAILS TO EXPOSE FIRM, UNYIELDING MINERAL SOILS THAT DO NOT CONTAIN ORGANICS. IF LOOSE OR SOFT ZONES ARE DISCOVERED BELOW THE MINIMUM EXCAVATION, THEY SHOULD BE LOCALLY COMPACTED OR REMOVED AND REPLACED WITH STRUCTURAL FILL MATERIAL PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL ORGANIC OR UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE BUILDING ADDITION SUBGRADE. THE CONTRACTOR SHALL EXCAVATE A MINIMUM OF 10' BELOW EXISTING GRADE TO EXPOSE FIRM, UNYIELDING MINERAL SOILS THAT DO NOT CONTAIN ORGANICS. IF LOOSE OR SOFT ZONES ARE DISCOVERED BELOW THE MINIMUM EXCAVATION, THEY SHOULD BE REMOVED AND REPLACED WITH STRUCTURAL FILL MATERIAL PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL OTHER PAVEMENT AND SITE SUBGRADES ARE SUBJECT TO APPROVAL BY THE ENGINEER.
- CONTRACTOR SHALL COORDINATE WITH THE ENGINEER FOR INTERMITTENT AND BOTTOM OF EXCAVATION INSPECTIONS. DO NOT PLACE ANY FILL PRIOR TO OBTAINING APPROVAL OF THE EXCAVATED SUBGRADE FROM THE ENGINEER. IDENTIFY REQUIRED INSPECTIONS IN THE EXCAVATION PLAN.

EXCAVATION KEY

- BUILDING FOUNDATION EXCAVATION, 10 FEET BELOW EXISTING GRADE, MINIMUM, BID SCHEDULE A
- RIGHT-OF-WAY PAVEMENT EXCAVATION, 52 INCHES BELOW FINISHED GRADE, MINIMUM, BID SCHEDULE B
- HEAVY DUTY PAVEMENT EXCAVATION, 44 INCHES BELOW FINISHED GRADE, MINIMUM, BID SCHEDULE B
- LIGHT DUTY PAVEMENT EXCAVATION, 24 INCHES BELOW FINISHED GRADE, MINIMUM, BID SCHEDULE B
- REMOVE & REPLACE PAVEMENT EXCAVATION, 8 INCHES BELOW FINISHED GRADE, MINIMUM, BID SCHEDULE B
- GRAVEL PAD EXCAVATION, 36 INCHES BELOW FINISHED GRADE, MINIMUM, BID SCHEDULE B

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

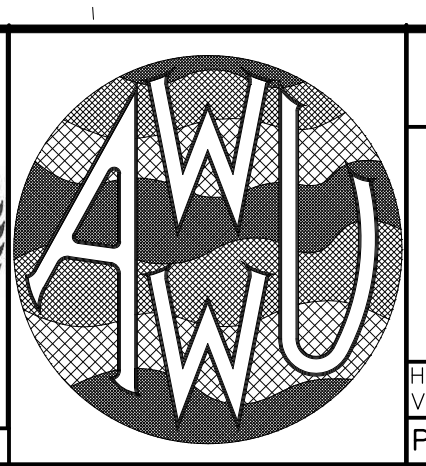
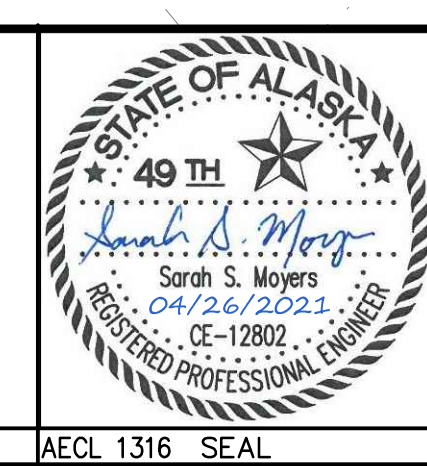
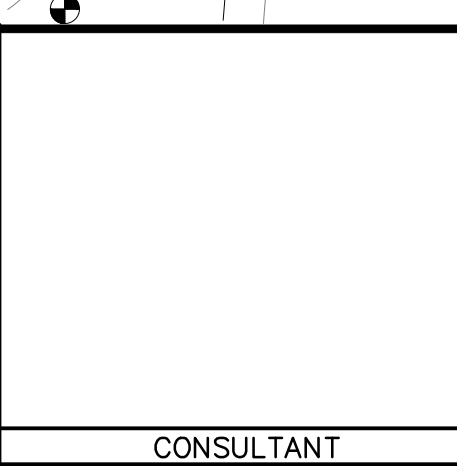
1. DATA PROVIDED BY: _____
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 CONTRACTOR: _____ DATE: _____ TITLE: _____
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 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____ DATE: _____ TITLE: _____
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WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

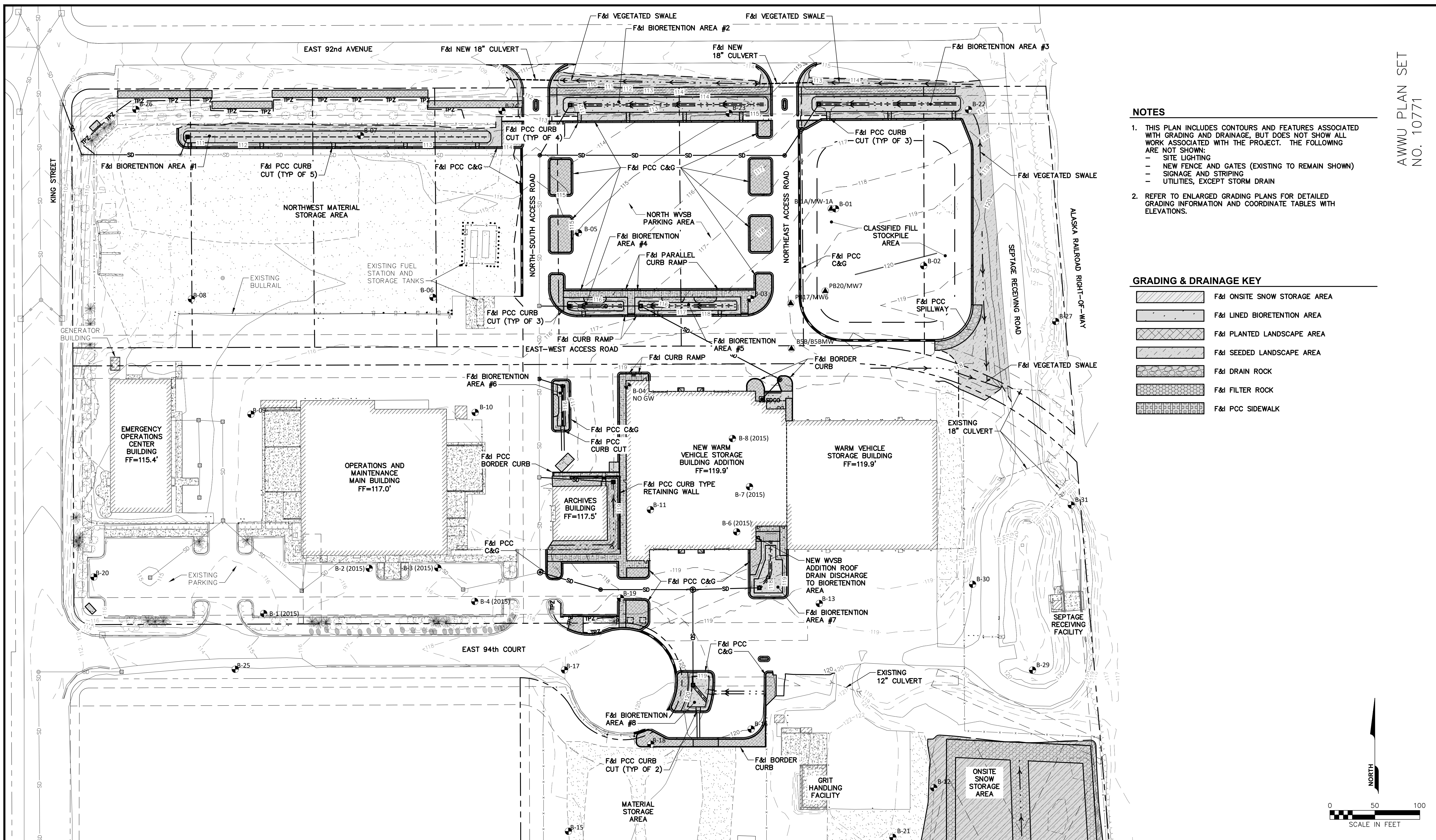
EXCAVATION PLAN

DWG
C1.2

HORIZ SCALE: 1"=50' DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775

CONSULTANT
AECL 1316 SEAL

SHEET 18 of 288



NOTES

- THIS PLAN INCLUDES CONTOURS AND FEATURES ASSOCIATED WITH GRADING AND DRAINAGE, BUT DOES NOT SHOW ALL WORK ASSOCIATED WITH THE PROJECT. THE FOLLOWING ARE NOT SHOWN:
 - SITE LIGHTING
 - NEW FENCE AND GATES (EXISTING TO REMAIN SHOWN)
 - SIGNAGE AND STRIPING
 - UTILITIES, EXCEPT STORM DRAIN
- REFER TO ENLARGED GRADING PLANS FOR DETAILED GRADING INFORMATION AND COORDINATE TABLES WITH ELEVATIONS.

GRADING & DRAINAGE KEY

- F&I ONSITE SNOW STORAGE AREA
- F&I LINED BIORETENTION AREA
- F&I PLANTED LANDSCAPE AREA
- F&I SEEDED LANDSCAPE AREA
- F&I DRAIN ROCK
- F&I FILTER ROCK
- F&I PCC SIDEWALK

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

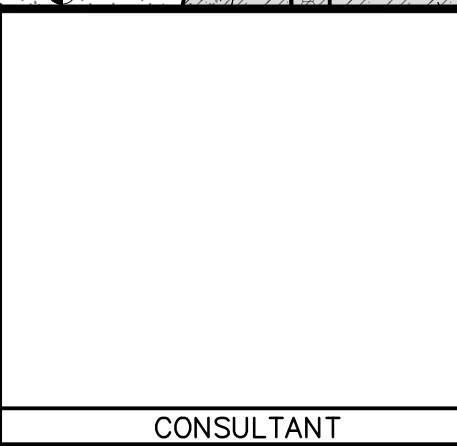
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BY: _____

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WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

GRADING & DRAINAGE PLAN

DWG
C2.1

HORIZ SCALE: 1"=50' DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

CONSULTANT
AECL 1316 SEAL

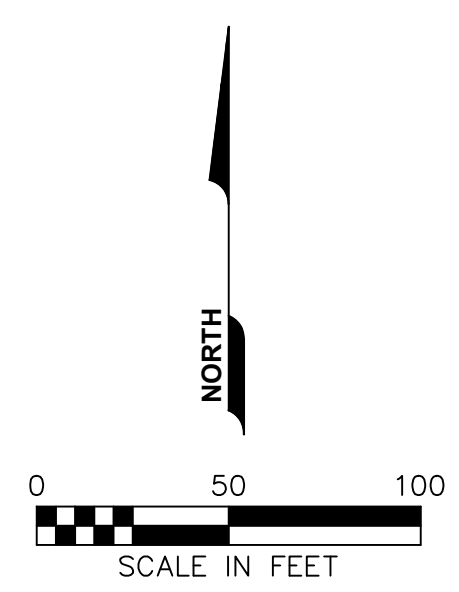
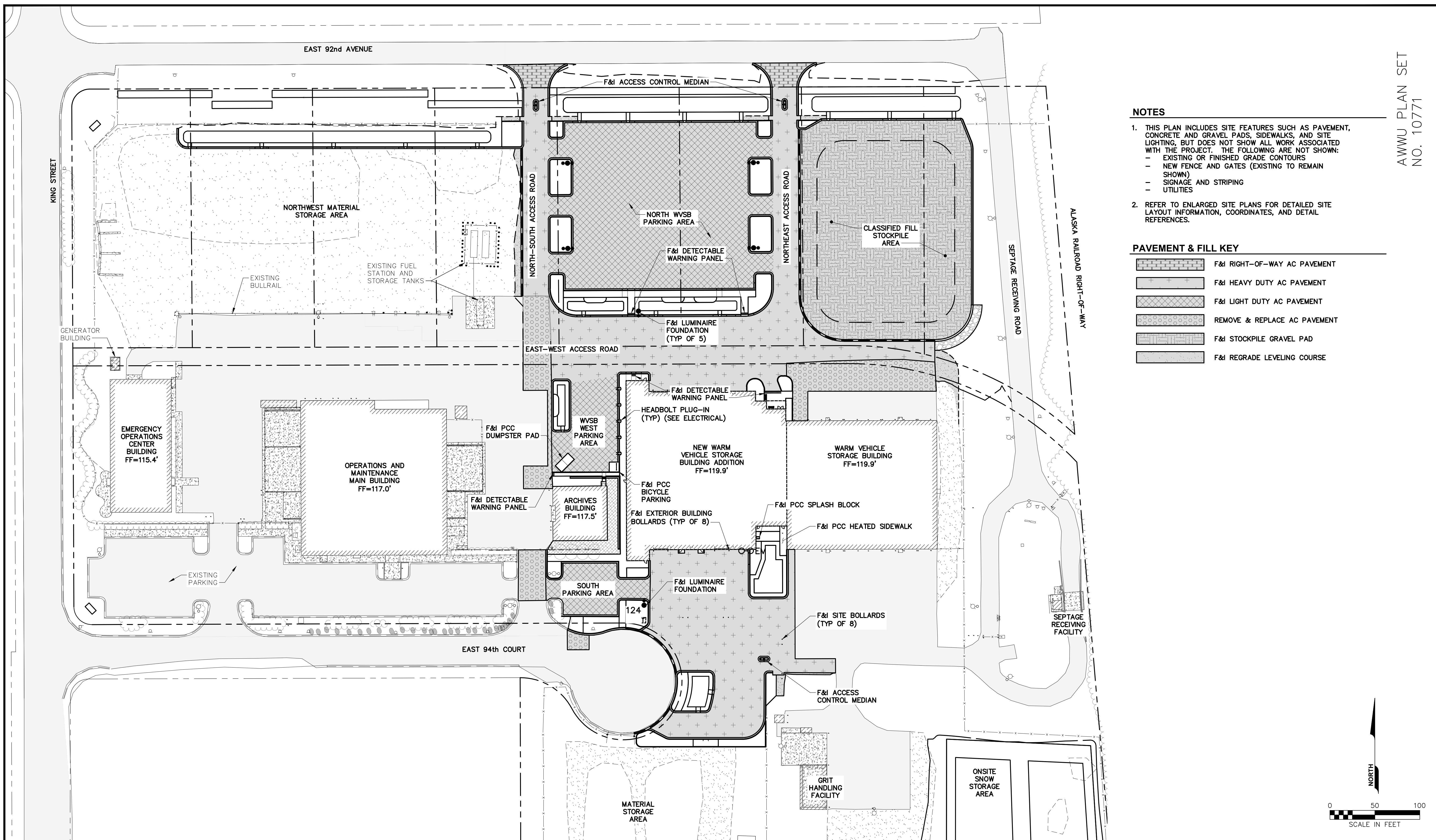
SHEET 19 of 288

NOTES

- THIS PLAN INCLUDES SITE FEATURES SUCH AS PAVEMENT, CONCRETE AND GRAVEL PADS, SIDEWALKS, AND SITE LIGHTING, BUT DOES NOT SHOW ALL WORK ASSOCIATED WITH THE PROJECT. THE FOLLOWING ARE NOT SHOWN:
 - EXISTING OR FINISHED GRADE CONTOURS
 - NEW FENCE AND GATES (EXISTING TO REMAIN SHOWN)
 - SIGNAGE AND STRIPING
 - UTILITIES
- REFER TO ENLARGED SITE PLANS FOR DETAILED SITE LAYOUT INFORMATION, COORDINATES, AND DETAIL REFERENCES.

PAVEMENT & FILL KEY

	F&I RIGHT-OF-WAY AC PAVEMENT
	F&I HEAVY DUTY AC PAVEMENT
	F&I LIGHT DUTY AC PAVEMENT
	REMOVE & REPLACE AC PAVEMENT
	F&I STOCKPILE GRAVEL PAD
	F&I REGRADE LEVELING COURSE



REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

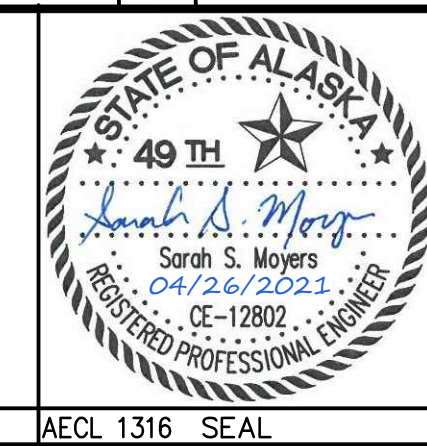
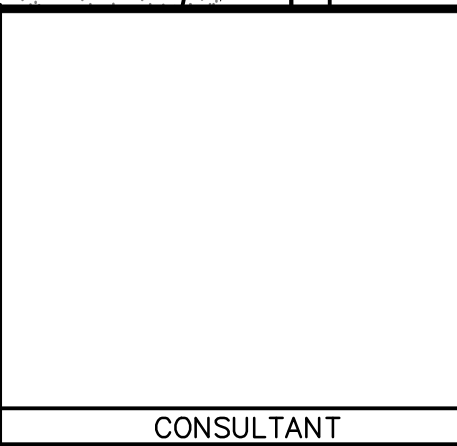
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 BY: _____

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 DATE: _____ TITLE: _____
 BY: _____

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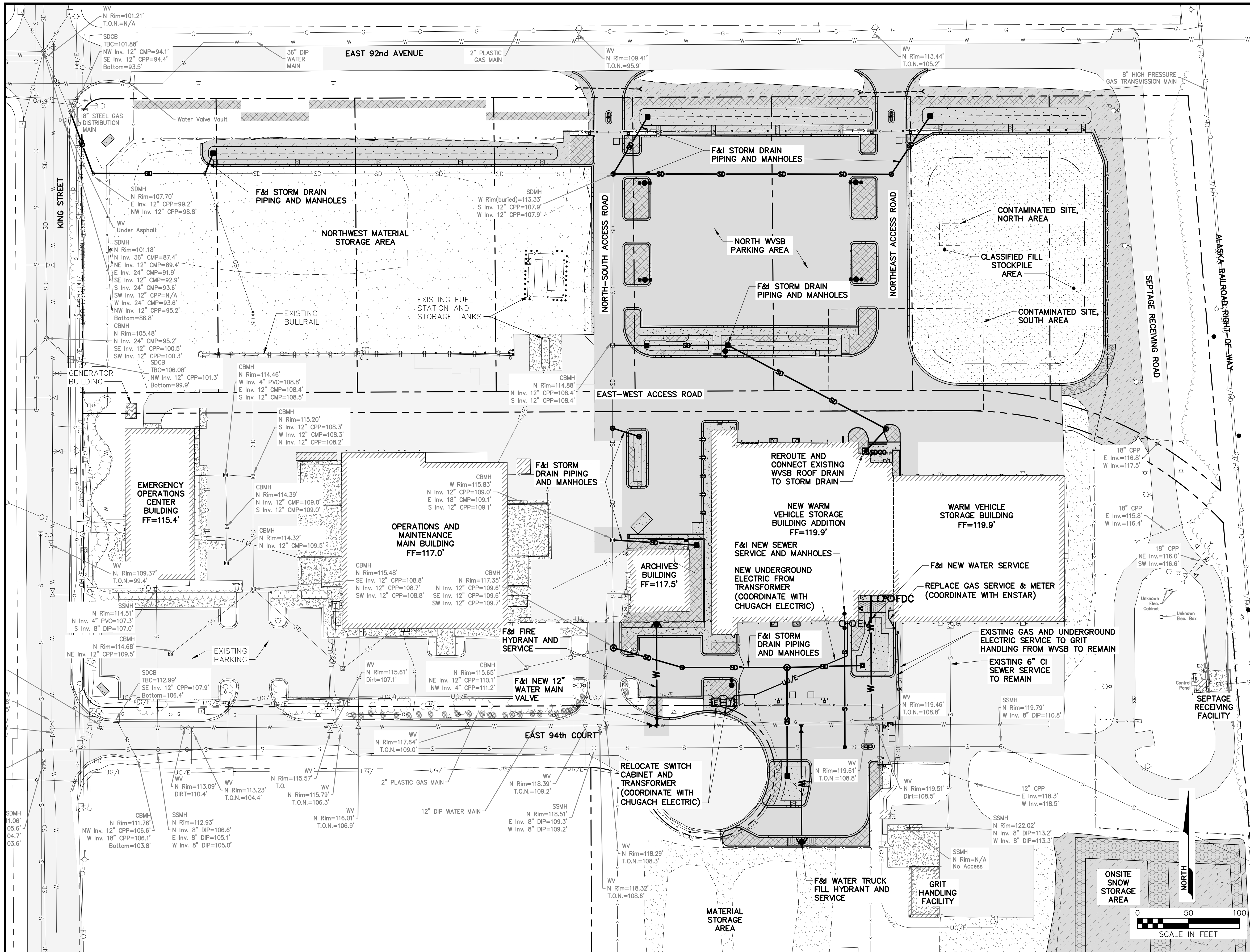
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

SITE PLAN

DWG
C2.2

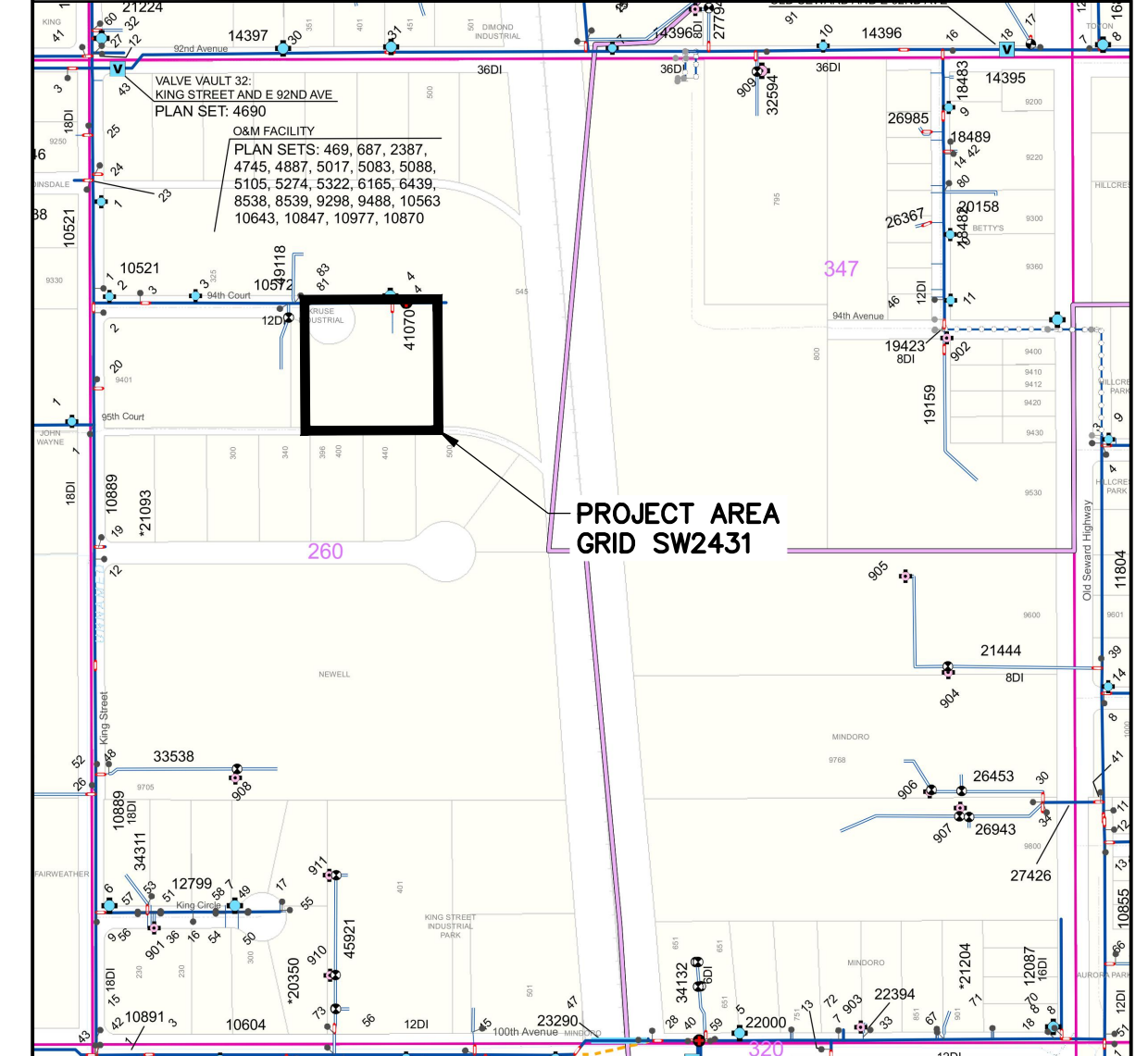
HORIZ SCALE: 1"=50' DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

SHEET 20 of 288



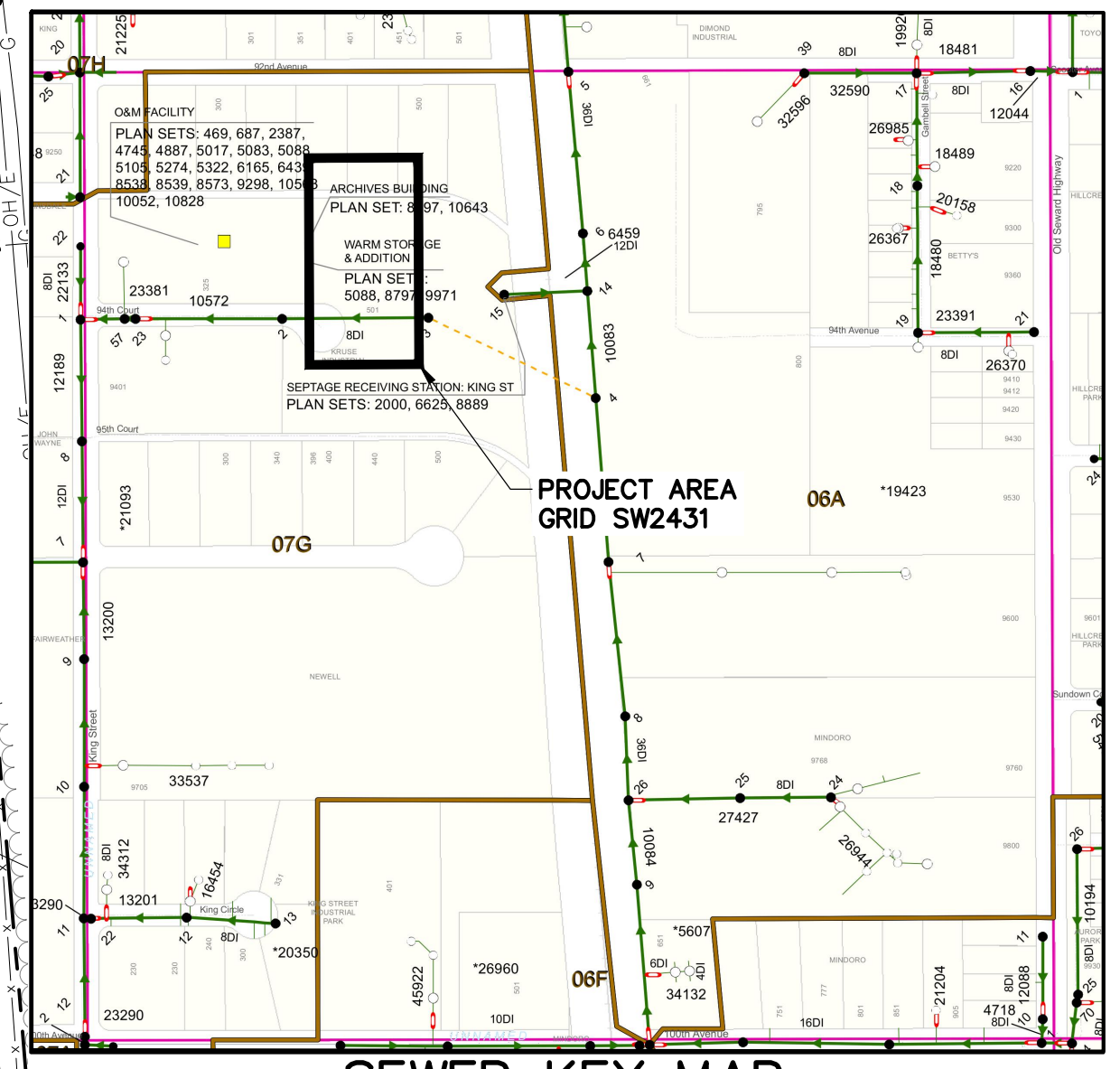
NOTES

- THIS PLAN INCLUDES UTILITIES, BUT DOES NOT SHOW ALL WORK ASSOCIATED WITH THE PROJECT. THE FOLLOWING ARE NOT SHOWN:
 - EXISTING AND FINISHED GRADE CONTOURS
 - SITE LIGHTING
 - NEW FENCE AND GATES (EXISTING SHOWN)
 - SIGNAGE AND STRIPING
- REFER TO UTILITY PLAN AND PROFILES FOR DETAILED LAYOUT INFORMATION AND DETAIL REFERENCES.
- LOCATIONS DEPICTED FOR THE UNDERGROUND UTILITIES ARE APPROXIMATE. BURIED UTILITIES HAVE BEEN LOCATED FROM RECORD DRAWINGS WHEN AVAILABLE. CONTRACTOR SHALL LOCATE AND VERIFY LOCATIONS AND INVERTS OF ALL UTILITIES PRIOR TO CONSTRUCTION.



WATER KEY MAP

NOT TO SCALE



SEWER KEY MAP

NOT TO SCALE

REV	DATE	DESCRIPTION	BY

VERIFY SCALE
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

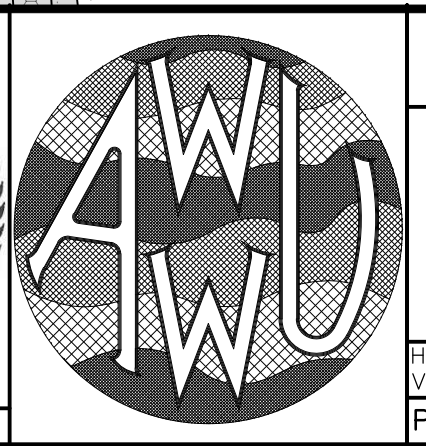
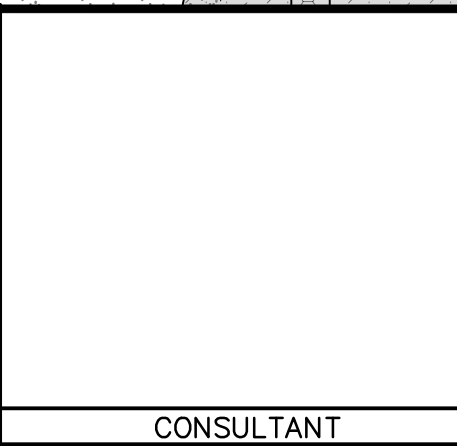
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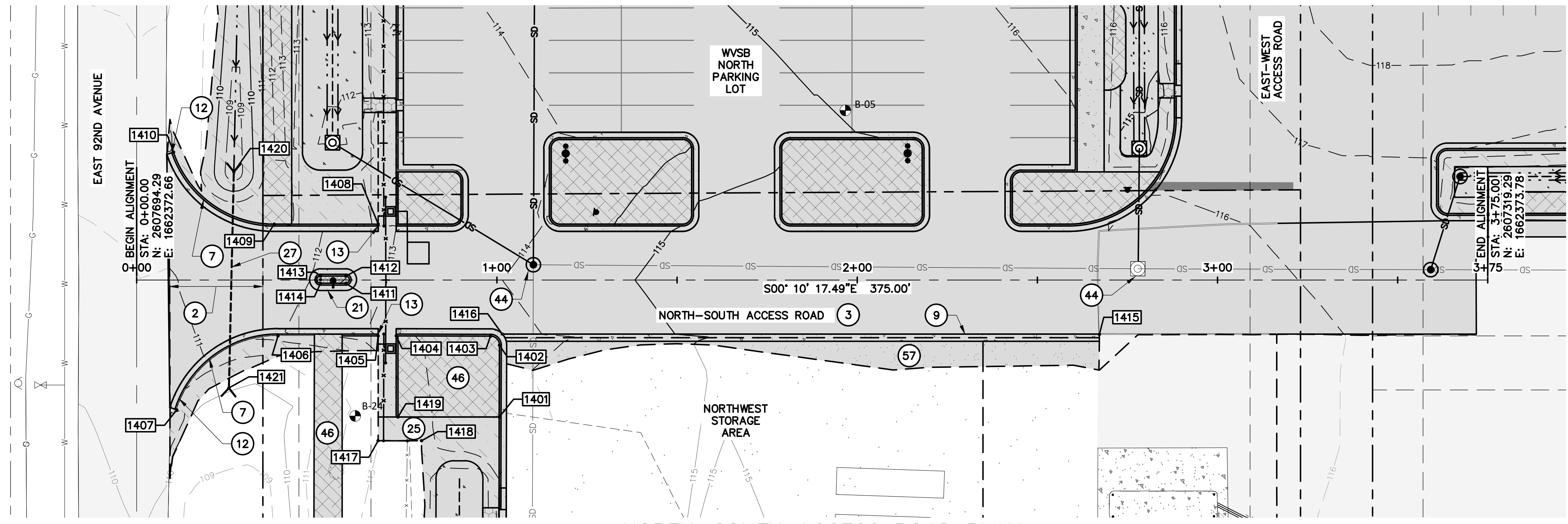


MUNICIPALITY OF ANCHORAGE
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

UTILITY PLAN

DATE: APRIL 2021
GRID: SW 2431
PROJ. ID.: WW.H7775



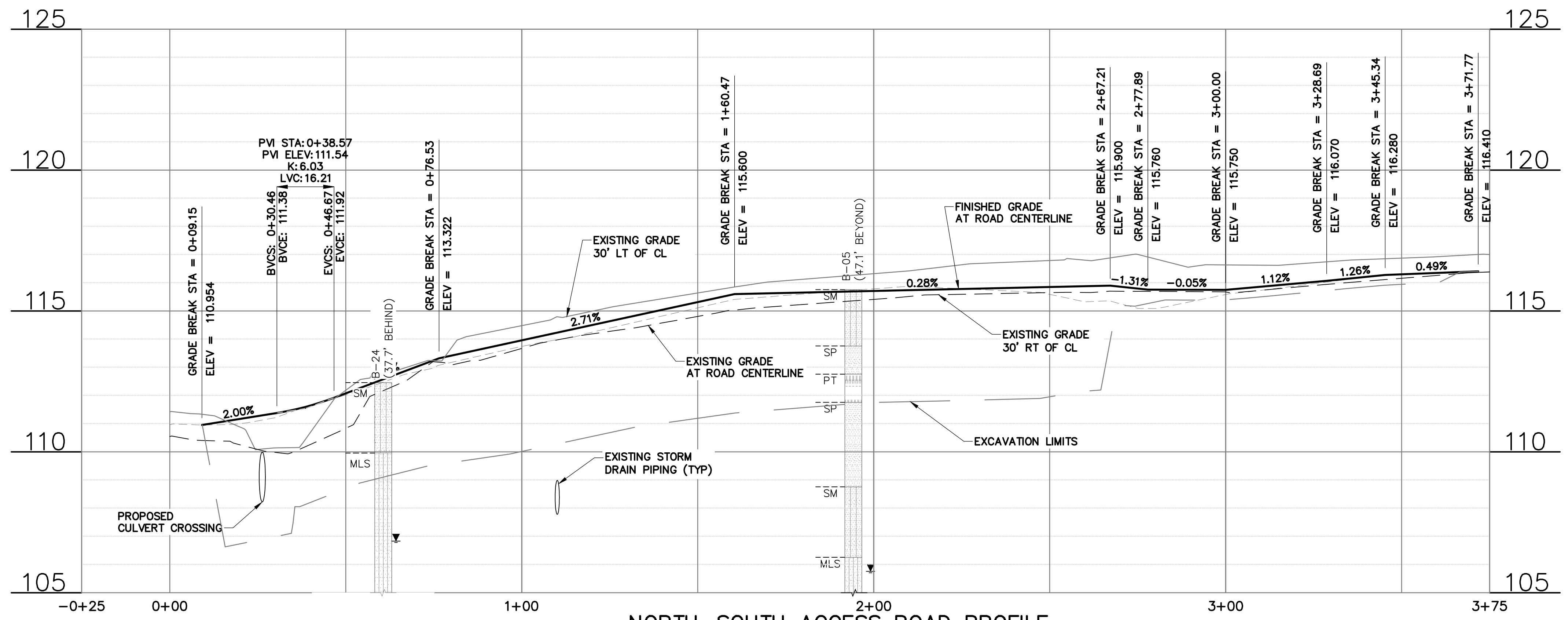
NORTH-SOUTH ACCESS ROAD PLAN
SCALE: 1" = 20'



CAUTION:
THE LOCATIONS AND DEPTHS OF THE EXISTING UTILITIES SHOWN ON THIS SHEET ARE APPROXIMATE. UTILITIES NOT SHOWN ON THIS SHEET MAY EXIST. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL UTILITIES BEFORE DIGGING. LOCATE CALL CENTER OF ALASKA, INC. : 1 (800) 478-3121 CALL BEFORE YOU DIG: 811

NOTES

1. SEE SHEET C3.1 FOR GRADING PLAN KEY LEGEND.



NORTH-SOUTH ACCESS ROAD PROFILE
SCALE: 1" = 20' HORIZONTAL 1" = 2.5' VERTICAL

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

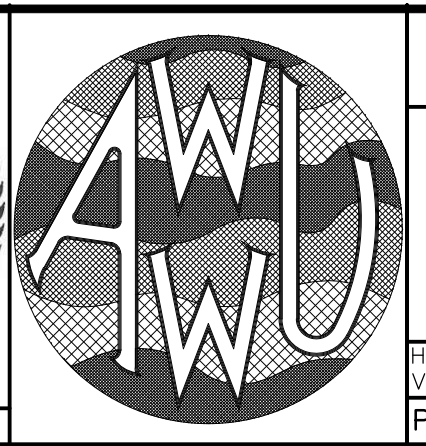
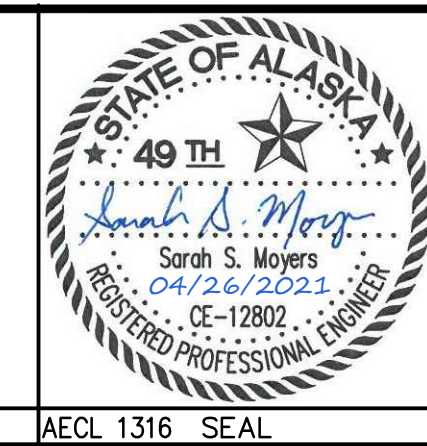
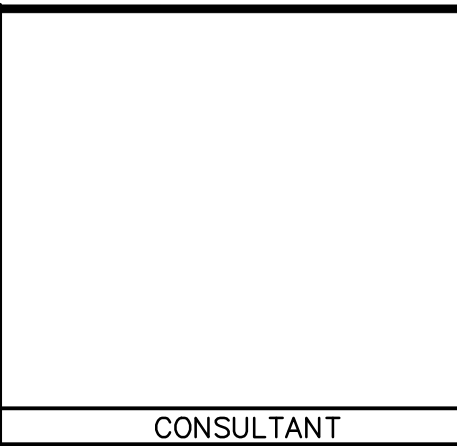
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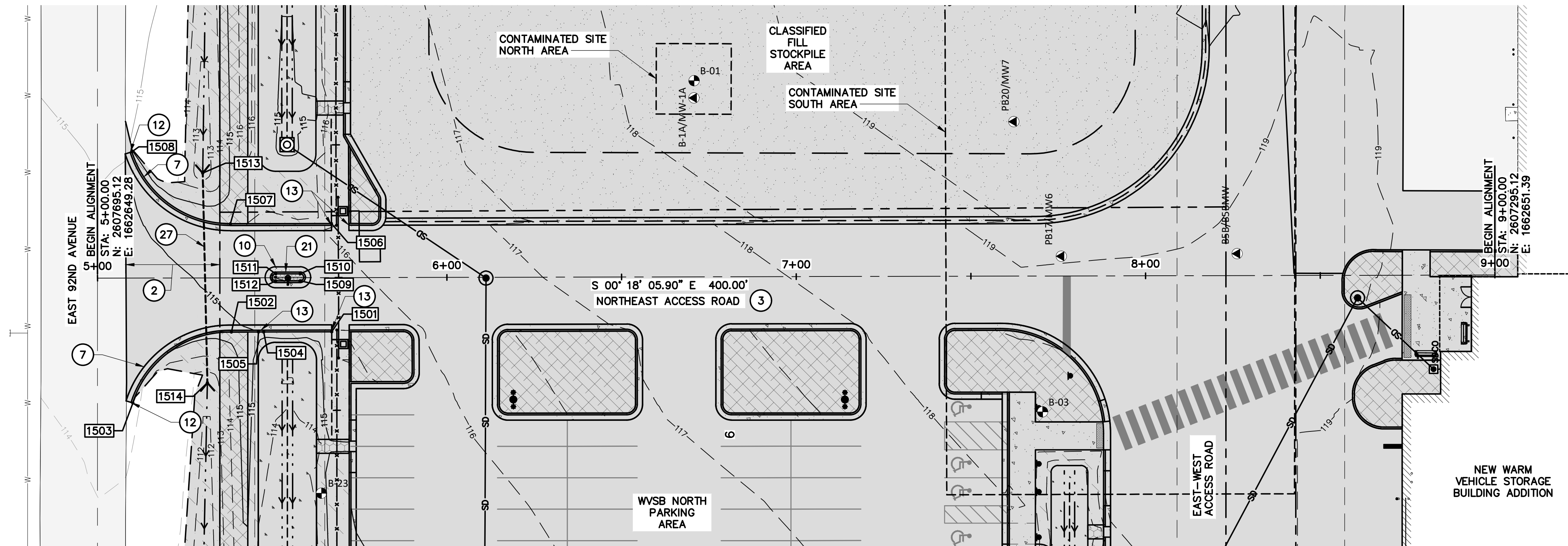
**NORTH-SOUTH ACCESS ROAD
PLAN & PROFILE**

STA 0+00 TO STA 3+00

HORIZ SCALE: 1" = 20' DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: 1" = 2.5'
PROJ. ID.: WW.H7775

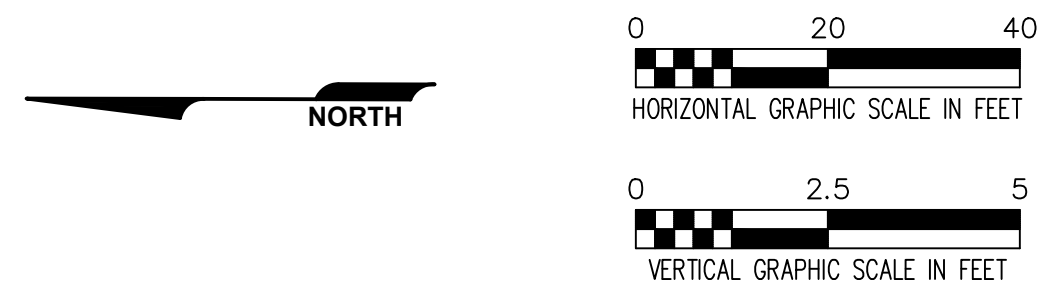
DWG
C3.2

SHEET 25 of 288



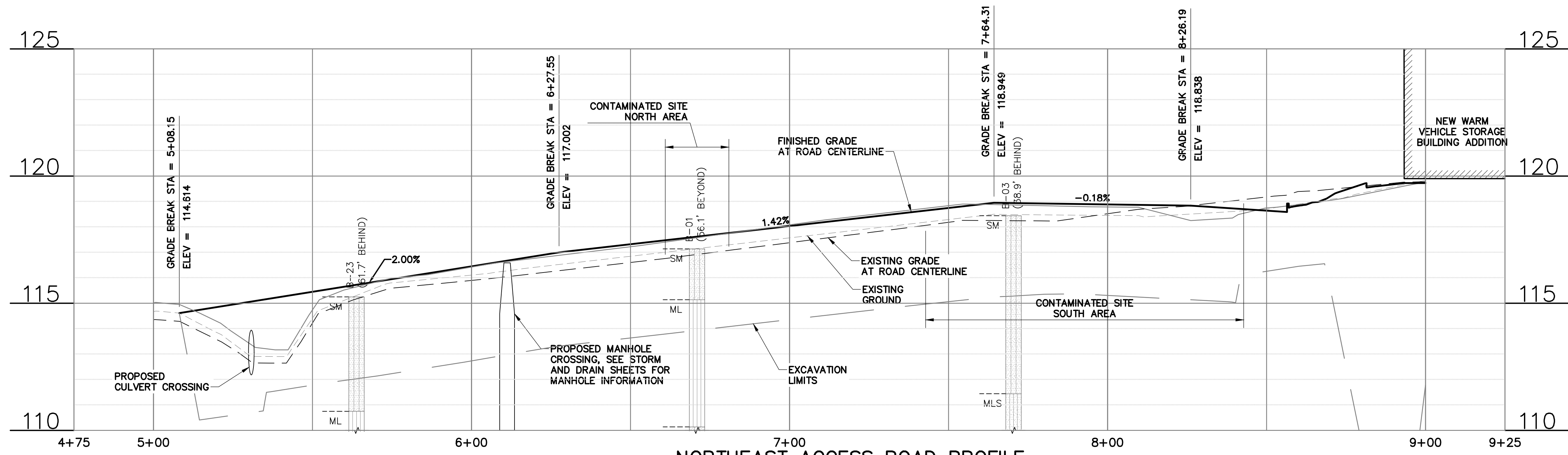
NORTHEAST ACCESS ROAD PLAN

SCALE: 1" = 20'



CAUTION:
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NOTES
1. SEE SHEET C3.1 FOR GRADING PLAN KEY LEGEND.



NORTHEAST ACCESS ROAD PROFILE

SCALE: 1" = 20' HORIZONTAL 1" = 2.5' VERTICAL

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

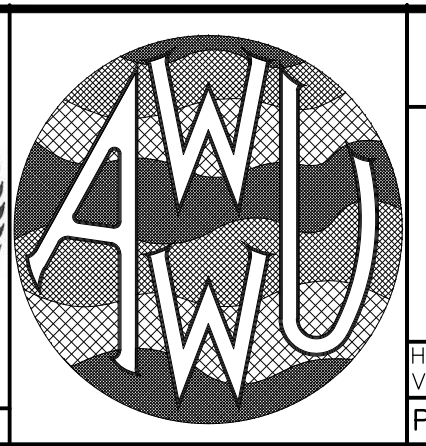
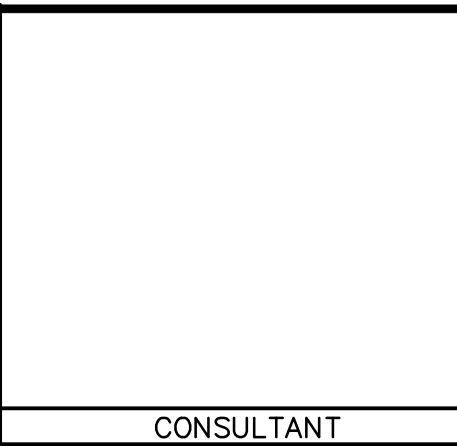
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BY: _____

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COMPANY: _____
DATE: _____ TITLE: _____
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WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

**NORTHEAST ACCESS ROAD
PLAN & PROFILE**

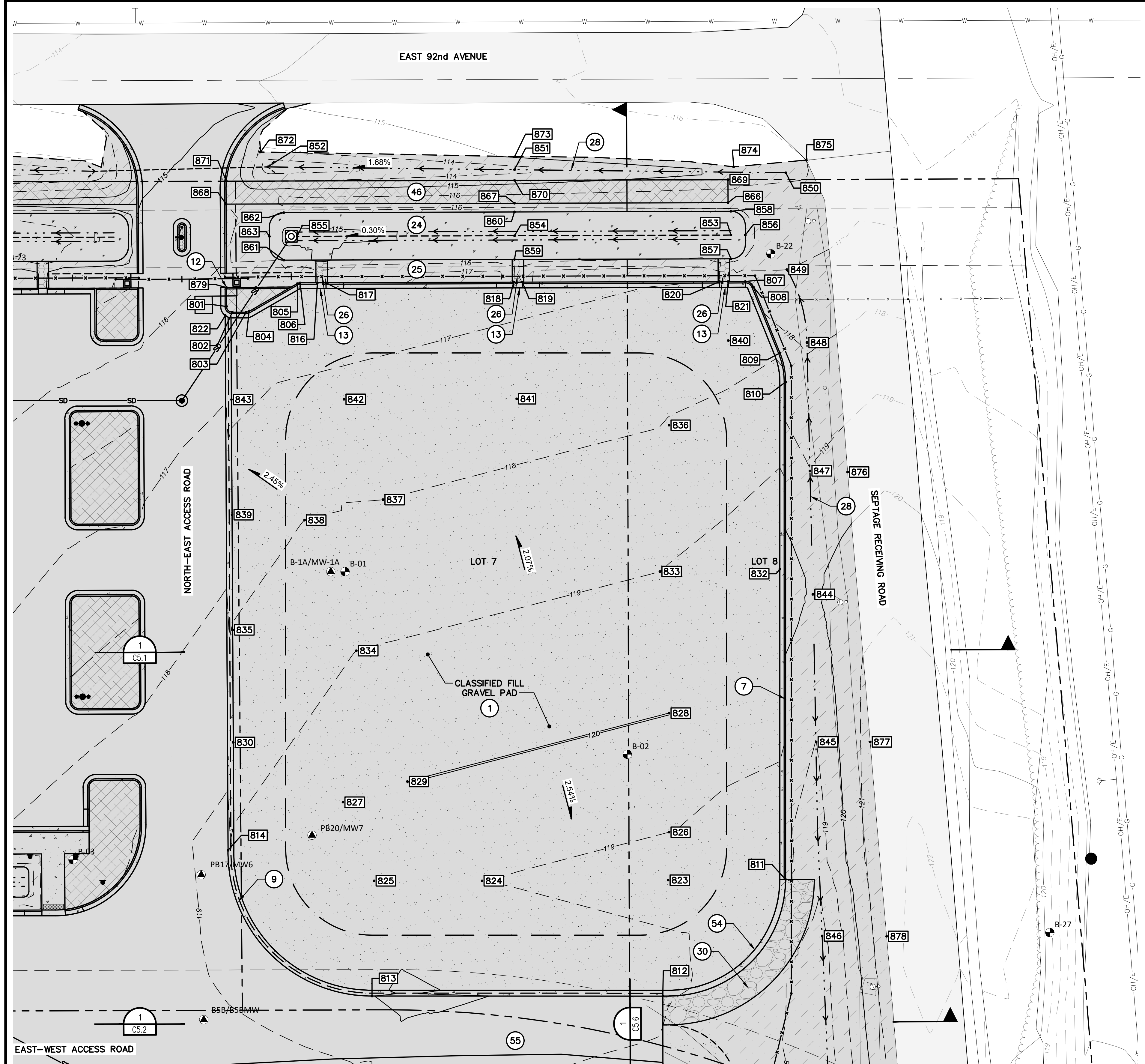
STA 5+00 TO STA 9+00

DWG
C3.3

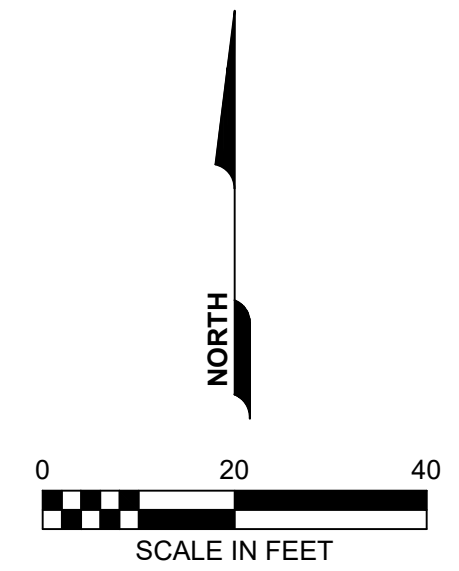
HORIZ SCALE: 1"=20' DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: 1"=2.5'
PROJ. ID.: WW.H7775

CONSULTANT
AECL 1316 SEAL

SHEET 26 of 288



- NOTES**
- SEE SHEET C3.1 FOR GRADING PLAN KEY LEGEND. COORDINATES AND FINISHED GRADE ELEVATIONS ARE PROVIDED IN COORDINATE TABLES ON SHEET C3.12-C3.15.
 - SEE C3.3 FOR ACCESS ROAD GRADING INFORMATION



VERIFY SCALE
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

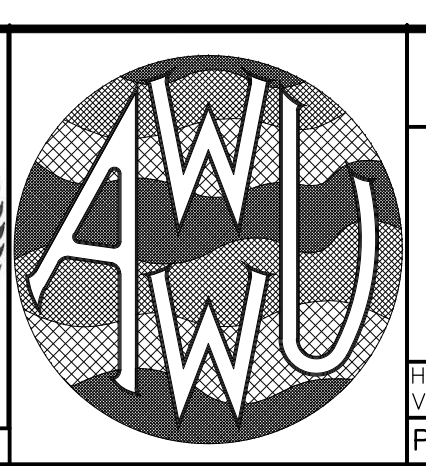
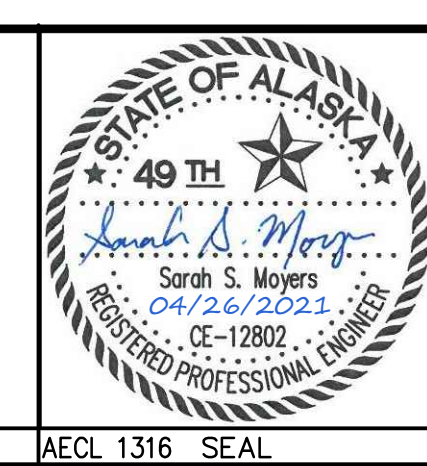
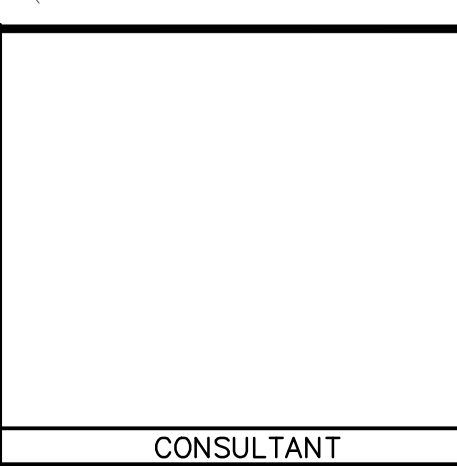
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 CONTRACTOR: _____
 DATE: _____ TITLE: _____
 BY: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
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3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
 DATA TRANSFER CHECKED BY: _____
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

**STOCKPILE AREA
GRADING PLAN**

HORIZ SCALE: 1" = 20'
VERT SCALE: N/A
DATE: APRIL 2021
GRID: SW 2431
PROJ. ID.: WW.H7775

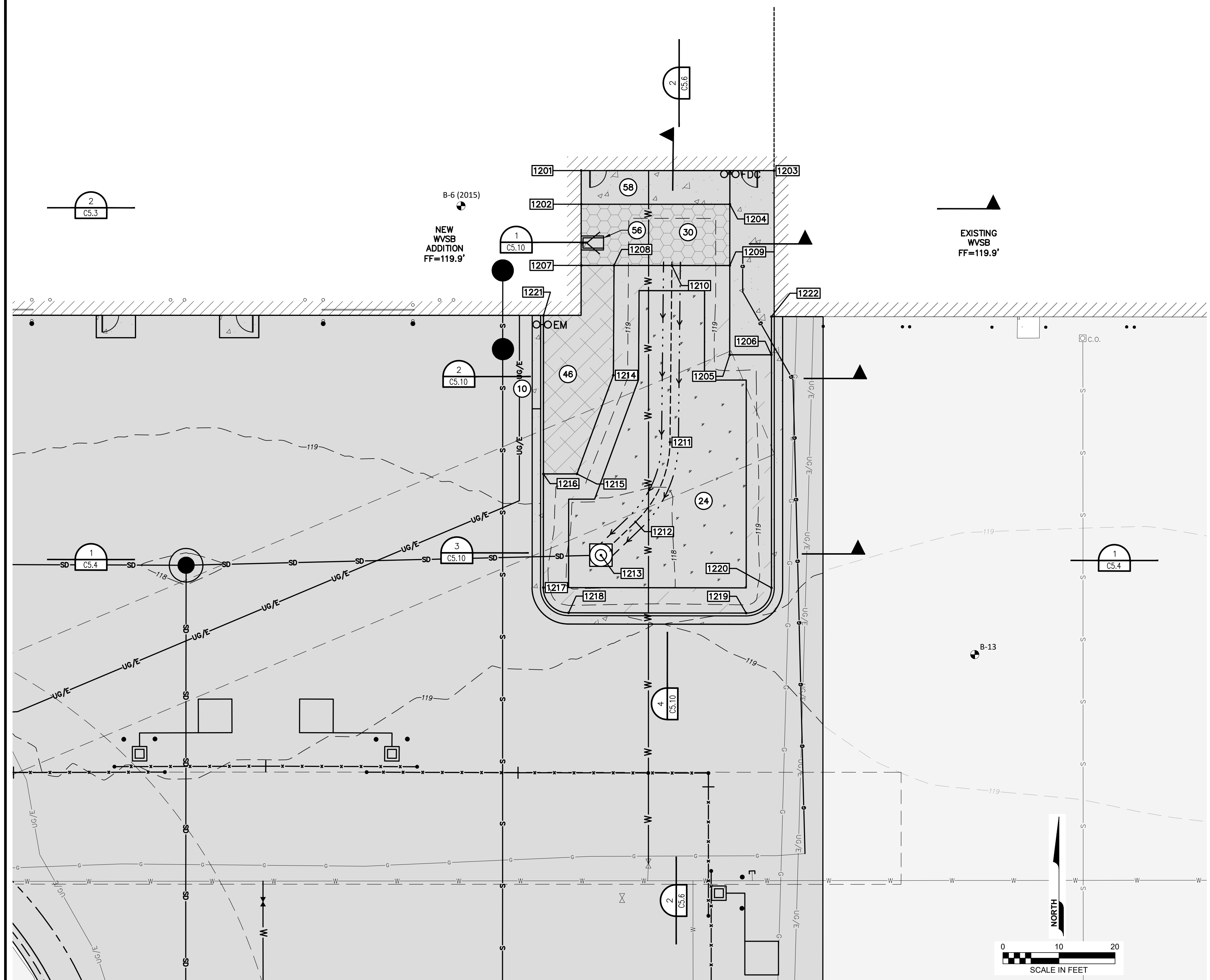
DWG
C3.6

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CONSULTANT
AECL 1316 SEAL

SHEET 29 of 288

NOTES

- SEE SHEET C3.1 FOR GRADING PLAN KEY LEGEND. COORDINATES AND FINISHED GRADE ELEVATIONS ARE PROVIDED IN COORDINATE TABLES ON SHEET C3.12-C3.15.



VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

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 BY: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

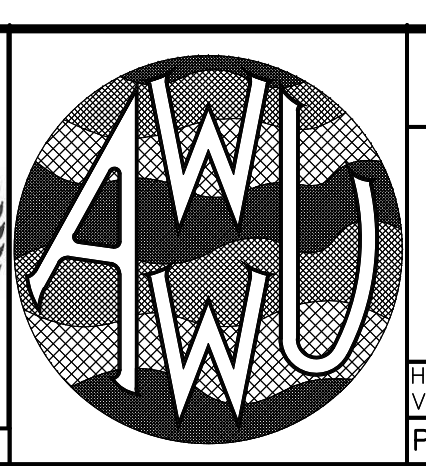
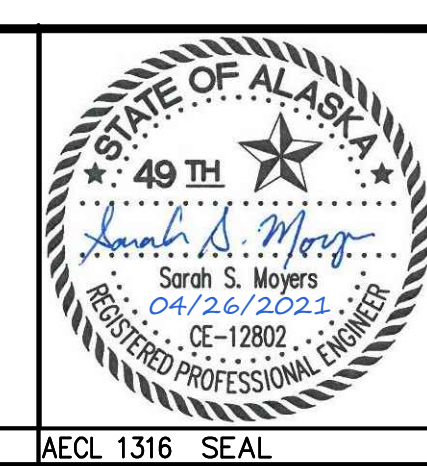
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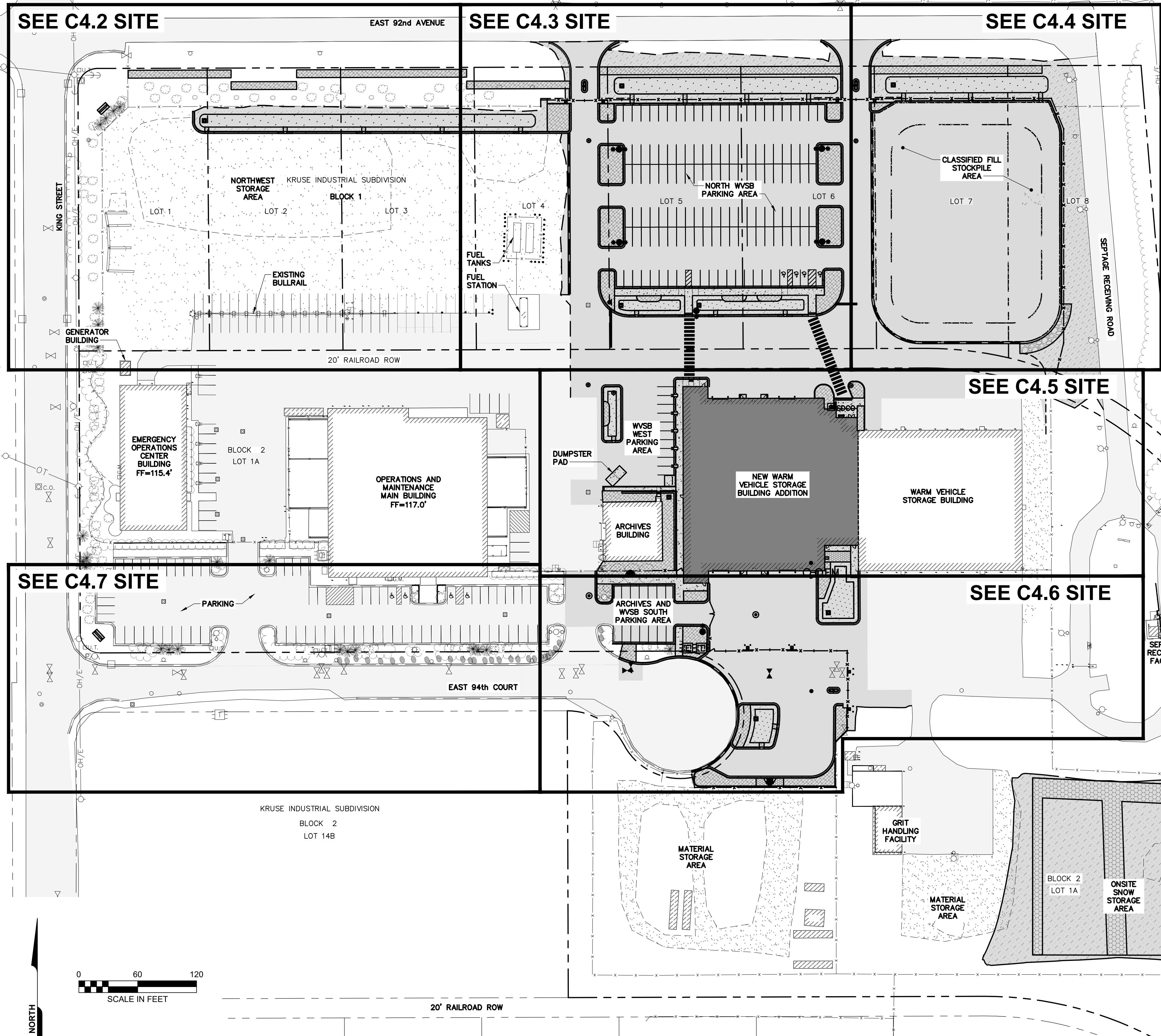
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

UTILITY AREA GRADING PLAN

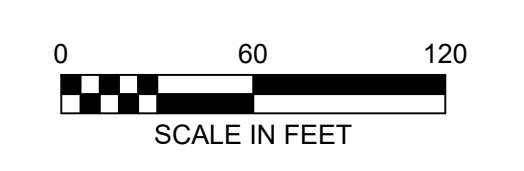
DWG
C3.11

HORIZ SCALE: 1" = 10' DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

SHEET 34 of 288



- KEY - C4 DRAWINGS**
- ① F&I CLASSIFIED STOCKPILE GRAVEL PAD (1/CT.2)
 - ② F&I RIGHT OF WAY AC PAVEMENT AND SUBGRADE IMPROVEMENTS (1/CT.1)
 - ③ F&I HEAVY DUTY AC PAVEMENT AND SUBGRADE IMPROVEMENTS (2/CT.1)
 - ④ F&I LIGHT DUTY AC PAVEMENT AND SUBGRADE IMPROVEMENTS (3/CT.1)
 - ⑪ F&I 8" EXTERIOR BUILDING BOLLARD (2/CT.8)
 - ⑭ F&I PCC SIDEWALK AND SUBGRADE IMPROVEMENTS (3/CT.3) (6/CT.3)
 - ⑯ F&I DETECTABLE WARNING PANEL (7/CT.3)
 - ⑰ F&I PCC DUMPSTER PAD (1/CT.3)
 - ⑳ F&I PCC BICYCLE PARKING PAD (2/CT.3)
 - ㉔ F&I BIORETENTION AREA (1/CT.3)
 - ㉕ F&I SEEDED AREA (SEE LANDSCAPE) (4/CT.2)
 - ㉘ F&I VEGETATED SWALE (1/CT.4)
 - ㉙ F&I LANDSCAPED DRAINAGE SWALE (2/CT.4)
 - ⑳ F&I DRAIN ROCK
 - ⑳ F&I PAINTED TRAFFIC MARKING, 4" WHITE FOR STANDARD PARKING SPACES PER MASS 70.10
 - ㉓ F&I PAINTED TRAFFIC MARKINGS FOR ACCESSIBLE PARKING SPACES AND ACCESS AISLE (2/CT.10)
 - ㉔ F&I PAINTED TRAFFIC MARKINGS FOR ACCESS AISLE (1/CT.10)
 - ㉕ F&I PAINTED TRAFFIC MARKINGS FOR CROSSWALK (5/CT.10) (6/CT.10)
 - ㉖ F&I PAINTED TRAFFIC MARKINGS FOR STOP BAR (3/CT.10) (4/CT.10)
 - ㉗ F&I 8' CHAIN LINK FENCE WITH BARBED WIRE (2/CT.7)
 - ㉘ F&I AUTOMATIC SLIDING VEHICLE GATE, 30' CLEAR OPENING (1/CT.6)
 - ㉙ F&I AUTOMATIC SLIDING VEHICLE GATE, 36' CLEAR OPENING (1/CT.6)
 - ㉚ F&I MANUAL VEHICLE GATE, 24' CLEAR OPENING (3/CT.7)
 - ㉛ F&I 5' PEDESTRIAN ACCESS GATE (4/CT.7) (5/CT.7)
 - ㉜ F&I LUMINAIRE POLE FOUNDATION (1/CT.8)
 - ㉝ F&I 8" SITE BOLLARD (3/CT.8)
 - ㉞ REMOVE AND REPLACE WATER VALVE BOX TOP SECTION, LID, AND DUST PAN PER MASS 60.03 (XX/XXX)
 - ㉟ F&I PLANTED AREA (SEE LANDSCAPE PLANS) (4/CT.2)
 - ㊱ HEADBOLT OUTLET (SEE ELECTRICAL)
 - ㊲ RELOCATED LUMINAIRE POLE (SEE ELECTRICAL)
 - ㊳ RELOCATED TRANSFORMER BY CEA (SEE ELECTRICAL)
 - ㊴ RELOCATED SWITCH CABINET BY CEA (SEE ELECTRICAL)
 - ㊵ RELOCATED GAS SERVICE AND METER, COORDINATE WITH ENSTAR (SEE MECHANICAL)
 - ㊶ F&I TREE PROTECTION ZONE (SEE LANDSCAPE)
 - ㊷ REMOVE AND REPLACE AC PAVEMENT (5/CT.2)
 - ㊸ F&I PCC HEATED SIDEWALK (5/CT.3)
 - ⓧ PROVIDE SIGN. SEE SIGN SUMMARY TABLE SHEET C7.9 FOR LOCATIONS AND DETAILS



VERIFY SCALE
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

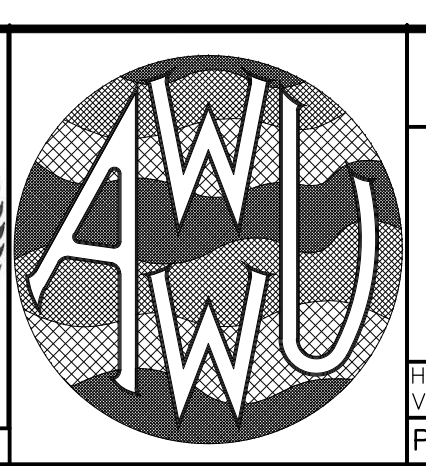
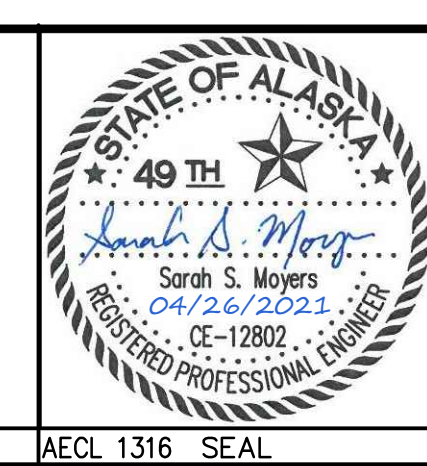
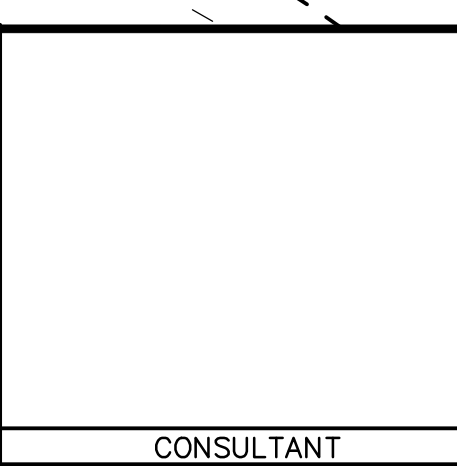
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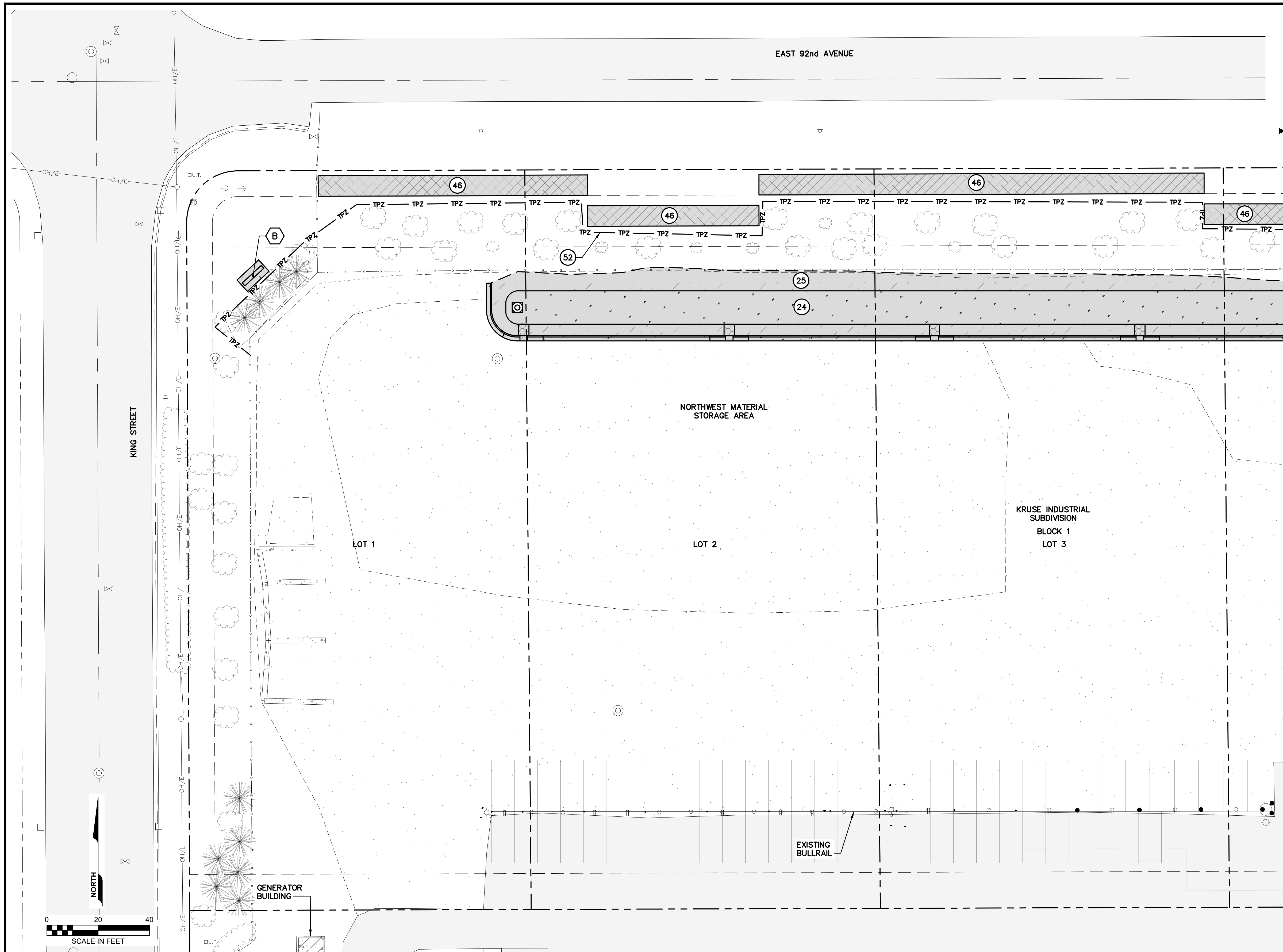
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

SITE KEY PLAN

DWG
C4.1

HORIZ SCALE: 1" = 60'
VERT SCALE: N/A
DATE: APRIL 2021
GRID: SW 2431
PROJ. ID.: WW.H7775

SHEET 39 of 288



NOTES

- 1. SEE SHEET C4.1 FOR SITE PLAN KEY LEGEND.

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

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 CONTRACTOR: _____
 DATE: _____ TITLE: _____
 BY: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

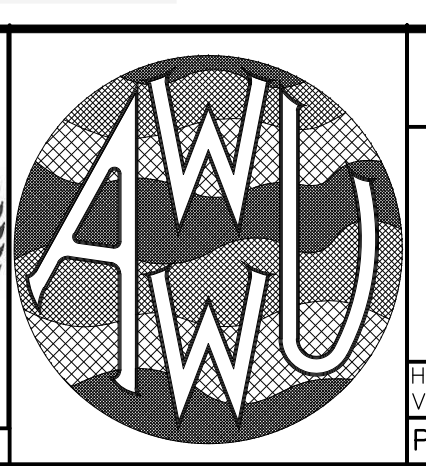
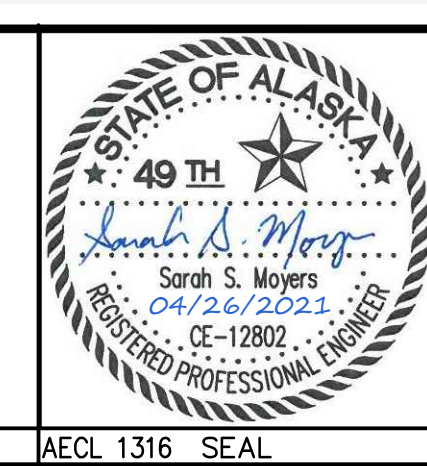
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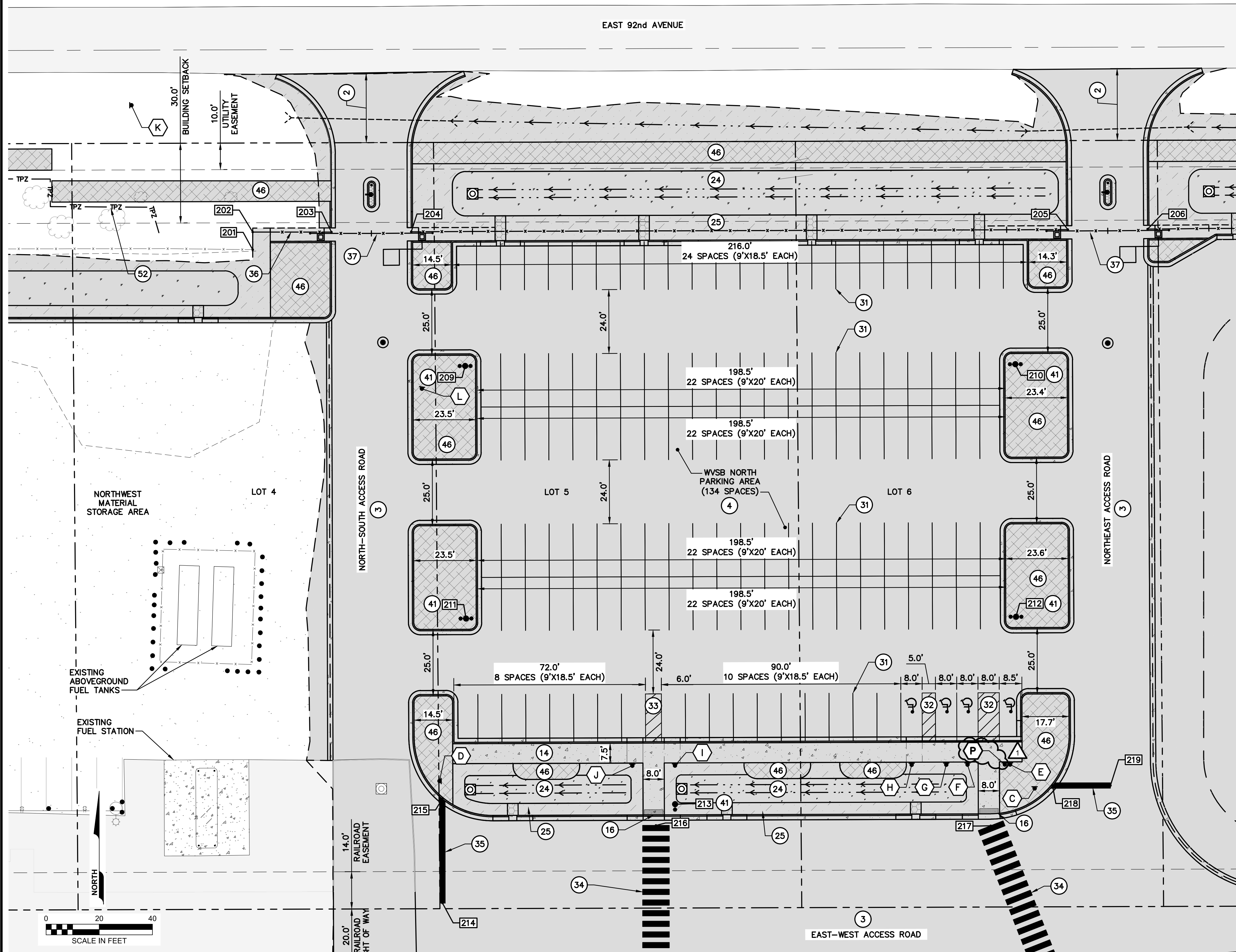
**NORTHWEST STORAGE AREA
SITE PLAN**

HORIZ SCALE: 1" = 20' DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

DWG
C4.2

SHEET 40 of 288

EAST 92nd AVENUE



COORDINATE TABLE				
POINT	NORTHING	EASTING	DESCRIPTION	KEY
201	2607619.03	1662328.26	EDGE OF FENCE	
202	2607625.63	1662328.27	GATE POST	
203	2607625.63	1662357.87	GATE POST	
204	2607625.80	1662387.87	GATE POST	
205	2607626.57	1662634.65	GATE POST	
206	2607626.76	1662664.64	GATE POST	
209	2607575.30	1662408.11	LIGHT POLE	41
210	2607575.98	1662614.90	LIGHT POLE	41
211	2607480.40	1662408.45	LIGHT POLE	41
212	2607481.07	1662615.16	LIGHT POLE	41
213	2607410.62	1662487.00	LIGHT POLE	41
214	2607373.46	1662399.62	STOP BAR	
215	2607412.63	1662399.54	STOP BAR	
216	2607402.64	1662479.83	CROSSWALK	
217	2607402.52	1662605.66	CROSSWALK	
218	2607417.61	1662628.89	STOP BAR	
219	2607417.65	1662650.68	STOP BAR	

NOTES

- SEE SHEET C4.1 FOR SITE PLAN KEY LEGEND.

AWWU PLAN SET
NO. 10771

VERIFY SCALE		
REV	DATE	DESCRIPTION
1	6/8/21	MOA PLAN REVIEW
BY: SSM		
REVISIONS		

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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Anchorage, AK 99518 (907) 677-8220

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CONSULTANT

AECL 1316 SEAL

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WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

**PARKING AREA
SITE PLAN**

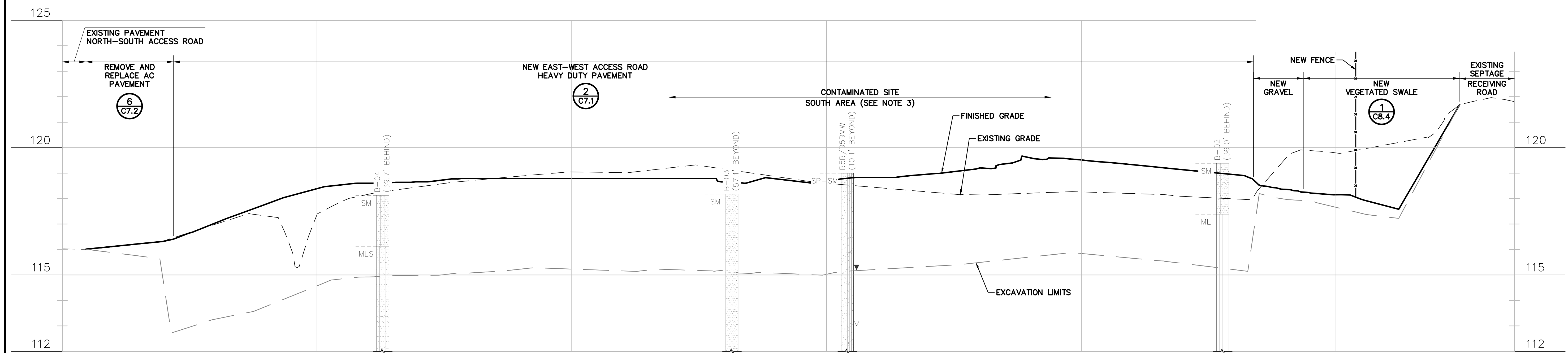
DWG
C4.3

HORIZ SCALE: 1" = 20'
VERT SCALE: N/A

DATE: APRIL 2021 GRID: SW 2431

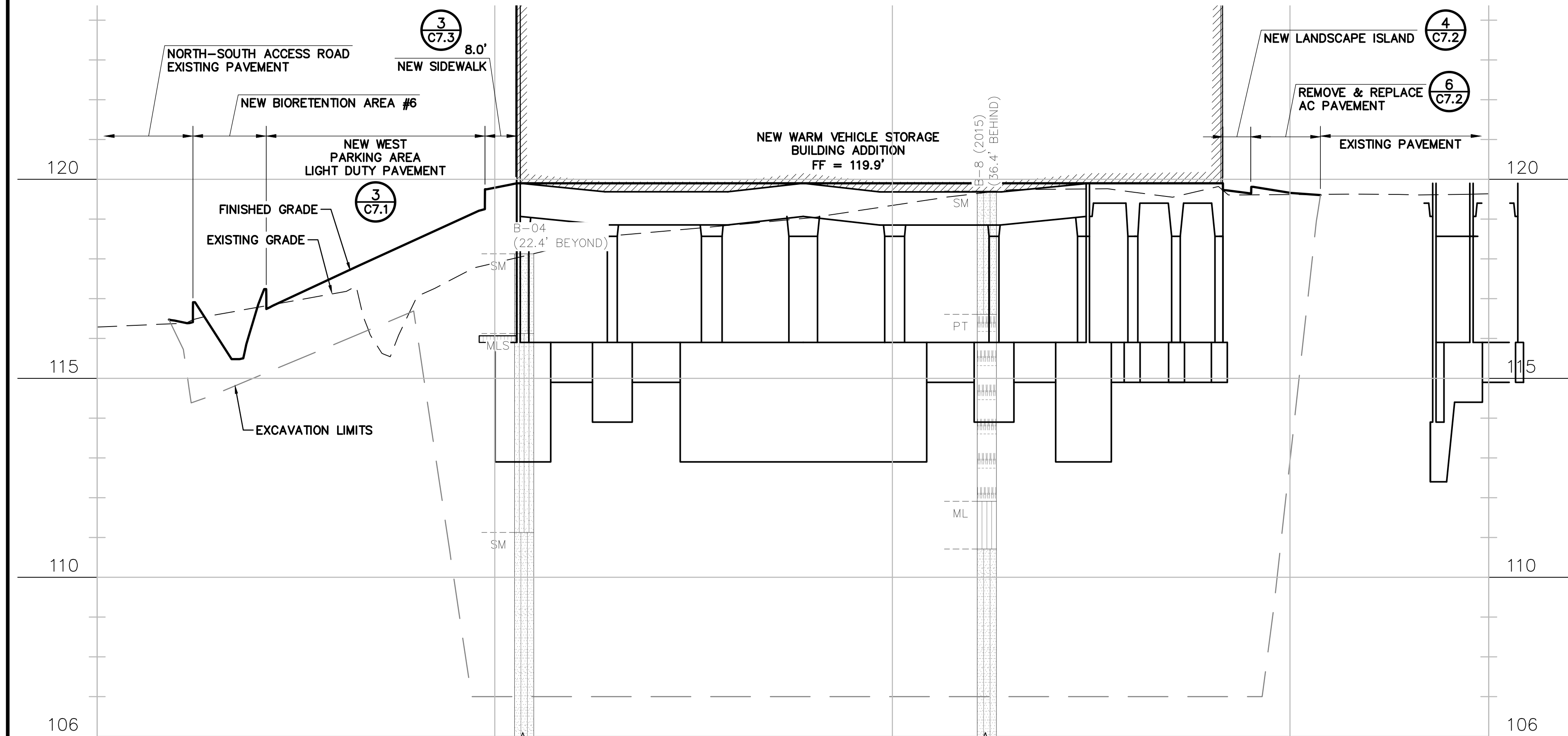
PROJ. ID.: WW.H7775

SHEET 41 of 288



SITE SECTION—EAST-WEST ACCESS ROAD
SCALE: 1" = 20' HORIZONTAL 1" = 2' VERTICAL

1
C5.2

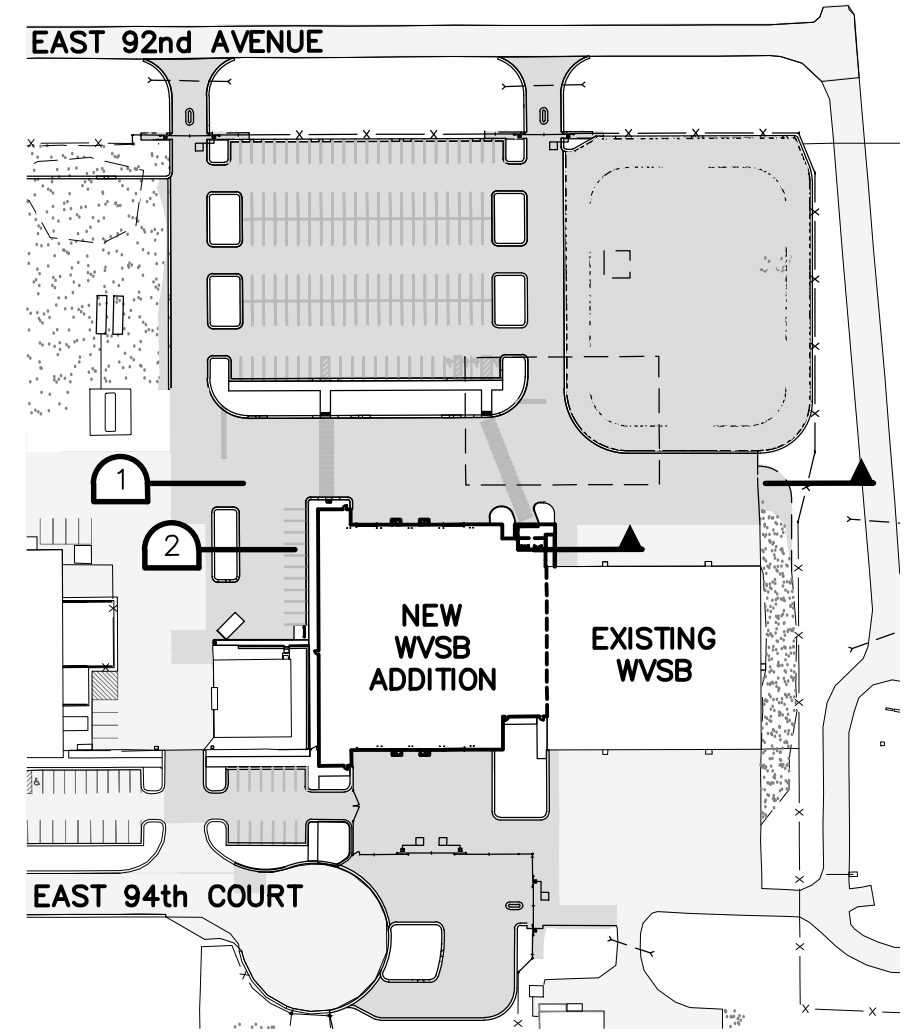


SITE SECTION—BUILDING (NORTH)
SCALE: 1" = 20' HORIZONTAL 1" = 2' VERTICAL

2
C5.2

NOTES

1. BUILDING SLAB INSULATION AND VAPOR BARRIER NOT SHOWN FOR CLARITY. SEE ARCHITECTURAL AND STRUCTURAL FOR BUILDING FOUNDATION AND SLAB DETAILS.
2. EXCAVATION LIMITS SHOWN DO NOT NECESSARILY ACCOUNT FOR EXCAVATION PERFORMED AS PART OF LUMP SUM WORK SUCH AS UTILITIES & DRAINAGE.
3. APPROXIMATE LOCATION OF SITE CONTAMINATION, SOUTH AREA INDICATED ON EXCAVATION PLAN. COORDINATE ALL EXCAVATION ACTIVITIES WITH THE OWNER AND COMPLY WITH SOIL AND GROUNDWATER MANAGEMENT PLAN REQUIREMENTS FOR WORK IN THIS AREA.



SECTION KEY PLAN
NTS

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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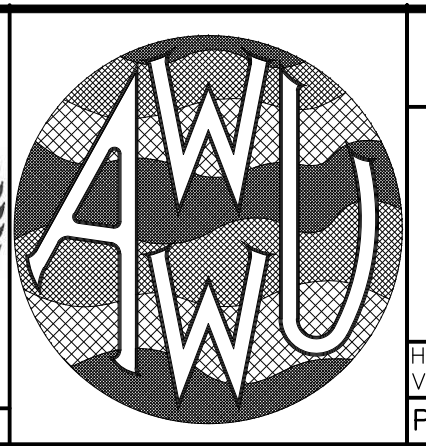
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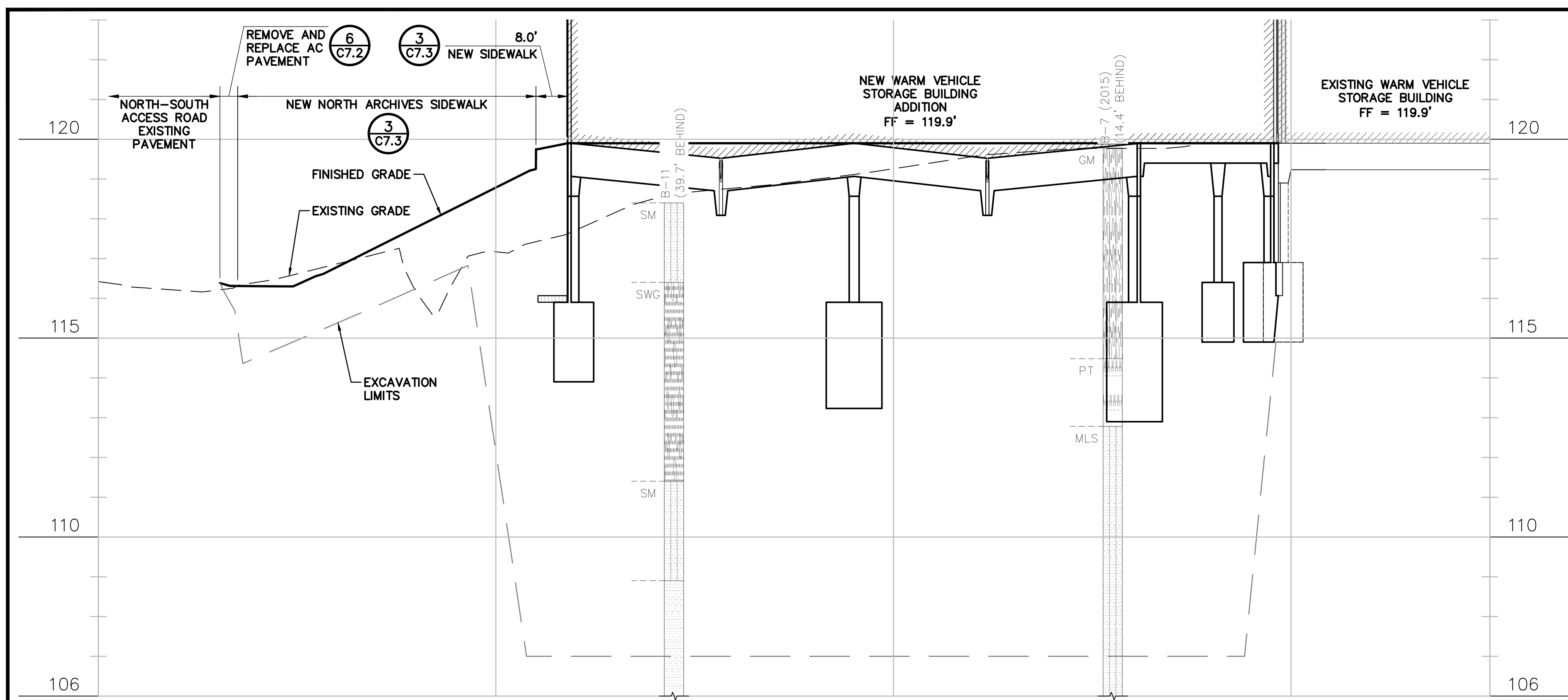
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

**EAST - WEST ACCESS AND WWSB
SITE SECTIONS**

HORIZ SCALE: 1" = 20' DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: 1" = 2'
 PROJ. ID.: WW.H7775

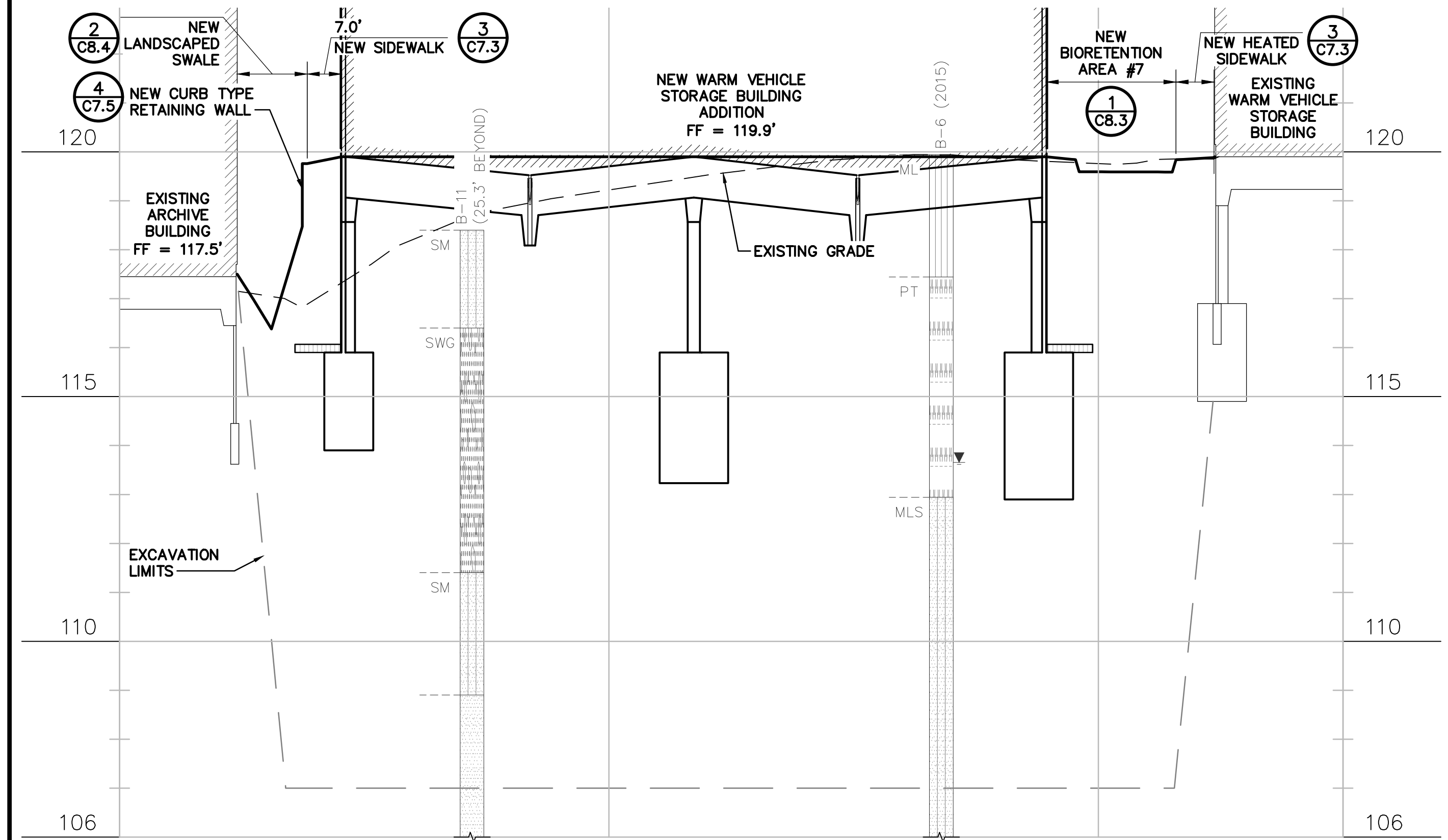
DWG
C5.2

SHEET 47 of 288



SITE SECTION-BUILDING (MIDDLE)

SCALE: 1" = 20' HORIZONTAL 1" = 2' VERTICAL

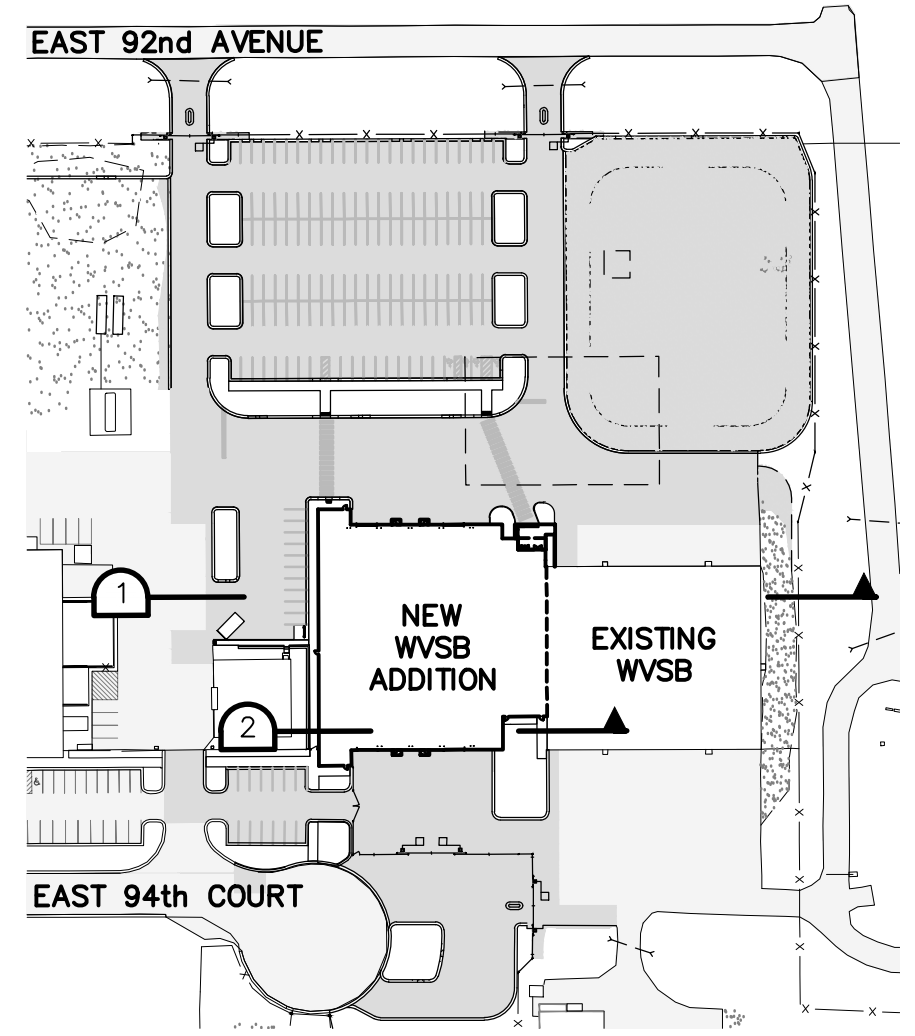


SITE SECTION-BUILDING (SOUTH)

SCALE: 1" = 20' HORIZONTAL 1" = 2' VERTICAL

NOTES

- BUILDING SLAB INSULATION AND VAPOR BARRIER NOT SHOWN FOR CLARITY. SEE ARCHITECTURAL AND STRUCTURAL FOR BUILDING FOUNDATION AND SLAB DETAILS.
- EXCAVATION LIMITS SHOWN DO NOT NECESSARILY ACCOUNT FOR EXCAVATION PERFORMED AS PART OF LUMP SUM WORK SUCH AS UTILITIES & DRAINAGE.



SECTION KEY PLAN

NTS

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

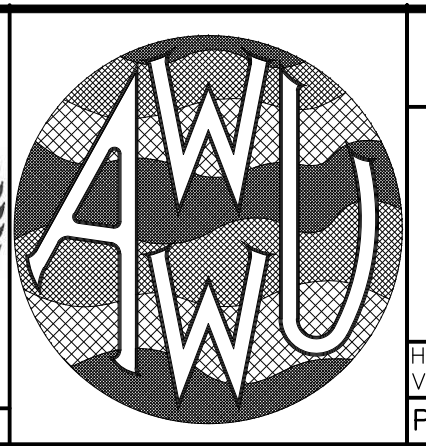
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 DATE: _____ TITLE: _____
 BY: _____

2. DATA TRANSFERRED BY: _____
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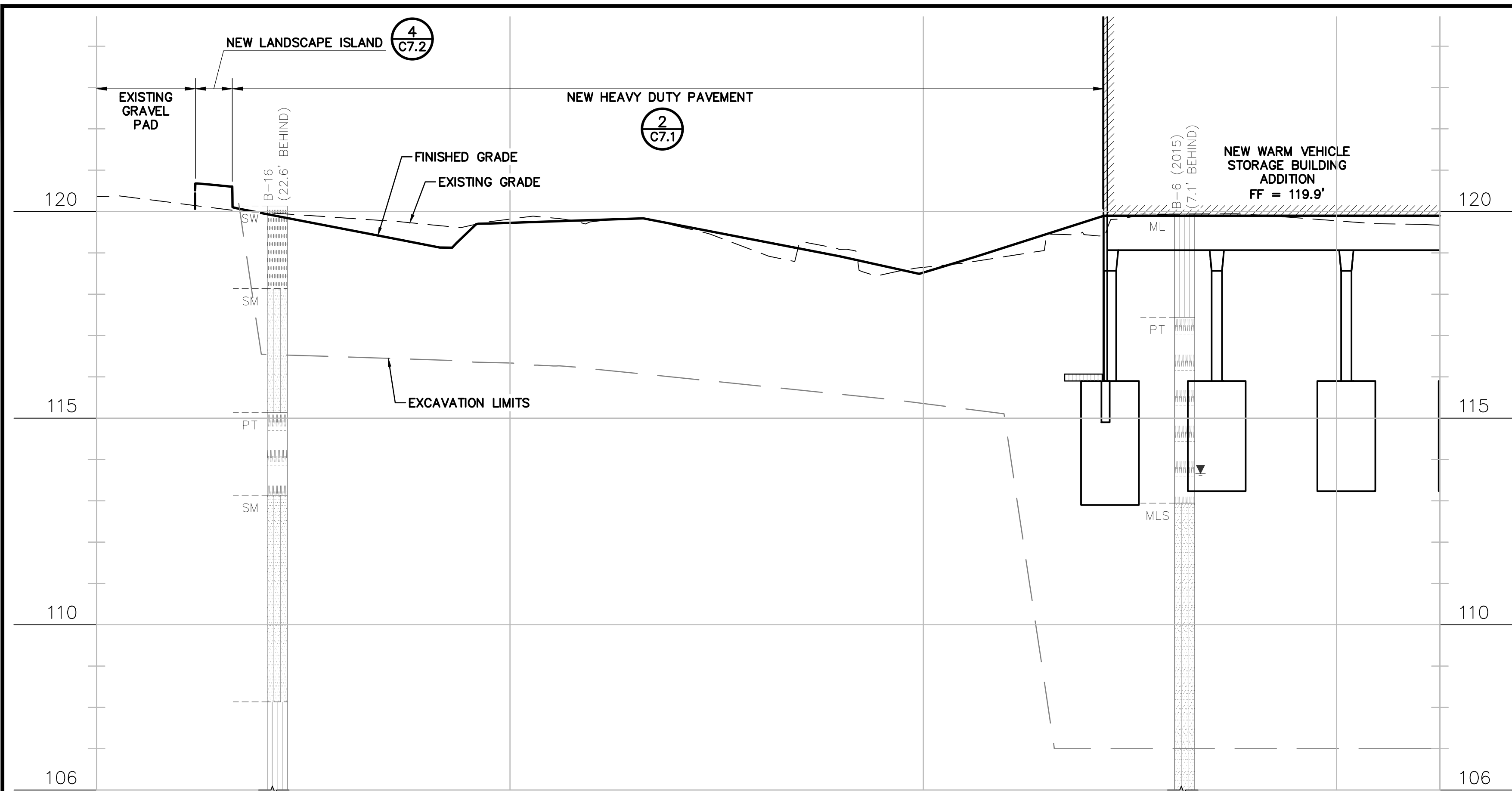
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

**WEST - EAST WWSB
SITE SECTIONS**

HORZ SCALE: 1" = 20' DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: 1" = 2'
 PROJ. ID.: WW.H7775

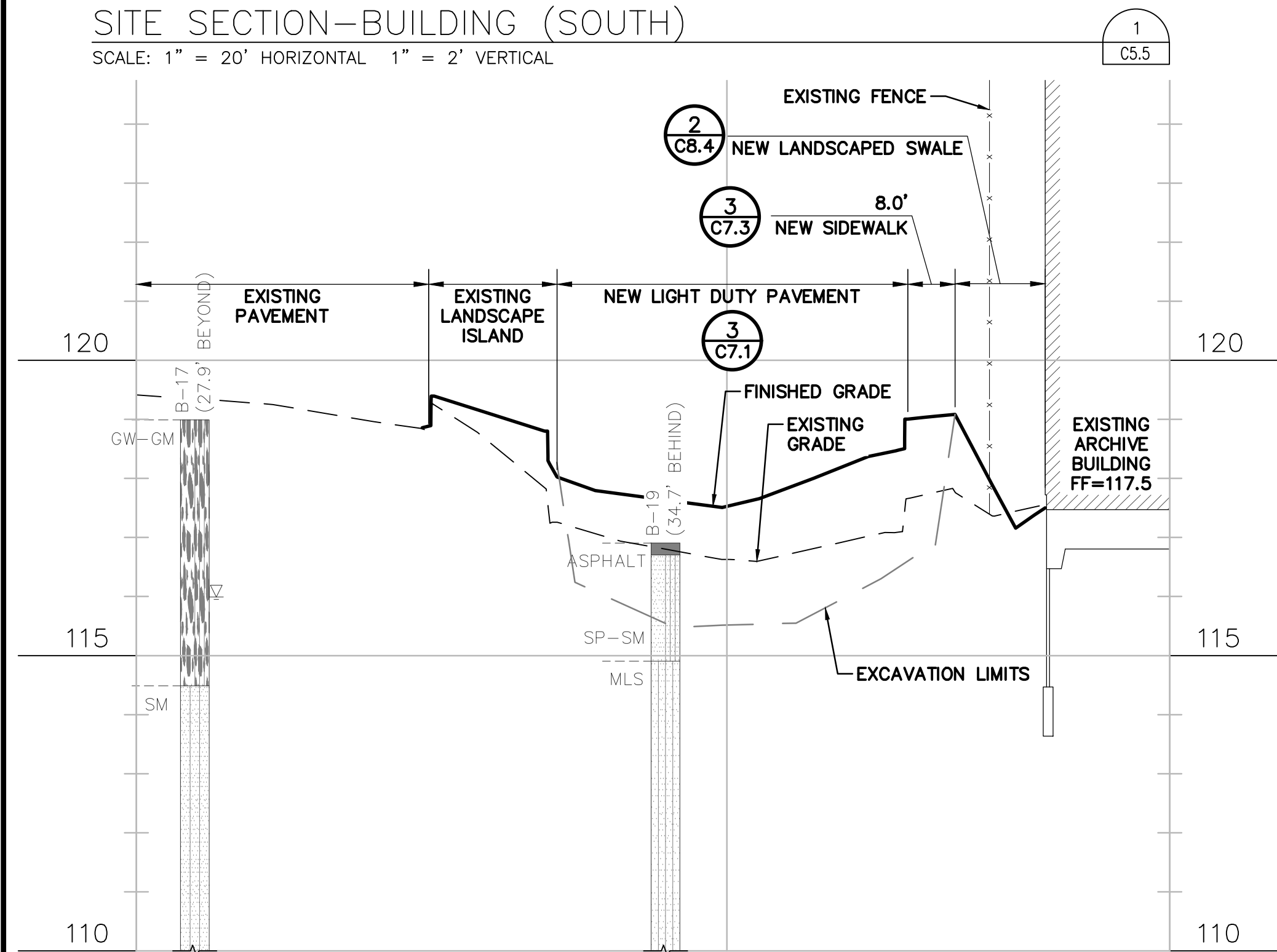
DWG
C5.3

SHEET 48 of 288



SITE SECTION-BUILDING (SOUTH)

SCALE: 1" = 20' HORIZONTAL 1" = 2' VERTICAL

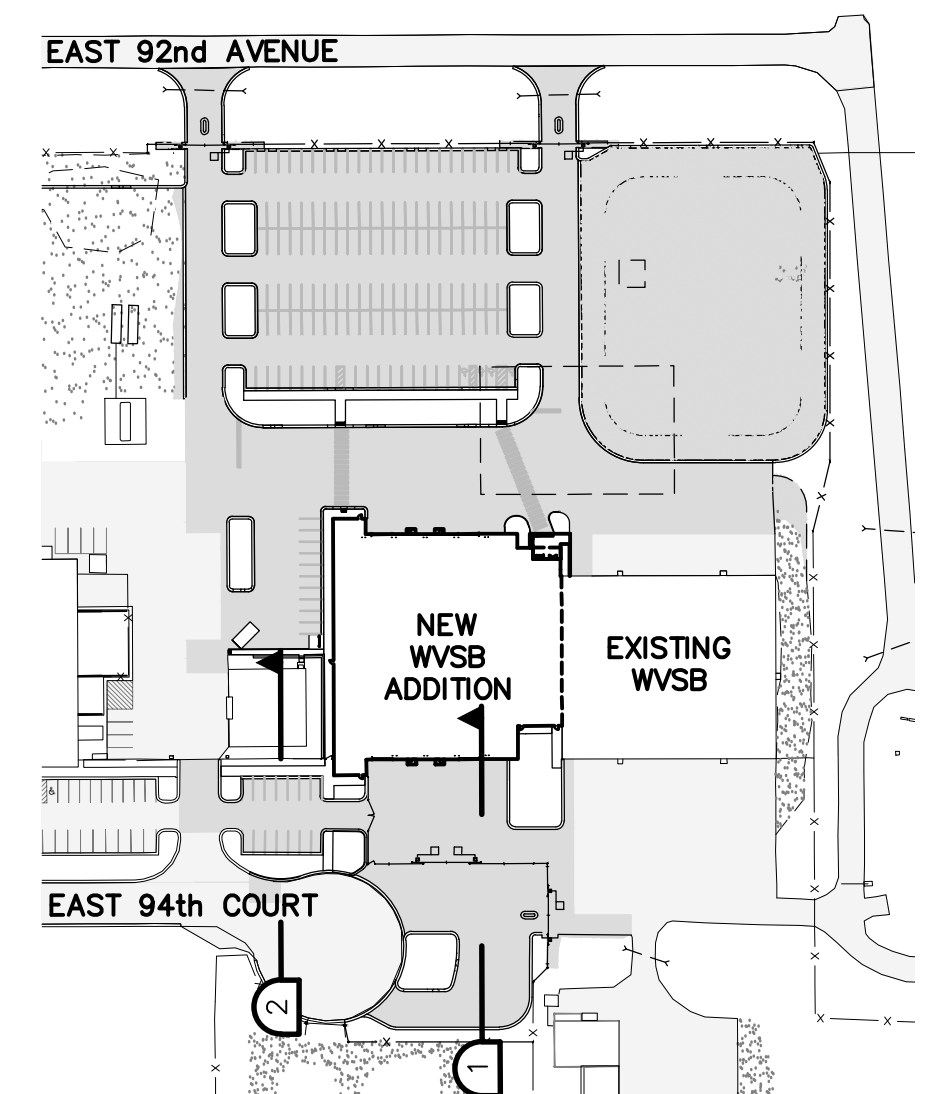


SITE SECTION-ARCHIVES SOUTH PARKING AREA

SCALE: 1" = 20' HORIZONTAL 1" = 2' VERTICAL

NOTES

1. BUILDING SLAB INSULATION AND VAPOR BARRIER NOT SHOWN FOR CLARITY. SEE ARCHITECTURAL AND STRUCTURAL FOR BUILDING FOUNDATION AND SLAB DETAILS.
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SECTION KEY PLAN

NTS

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY

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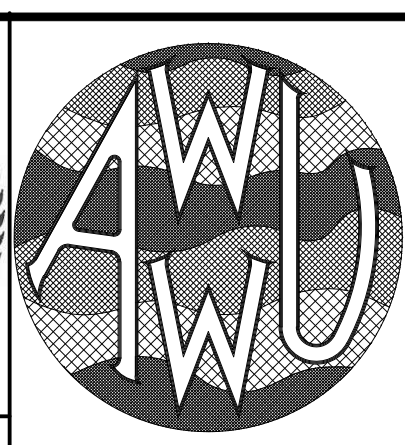
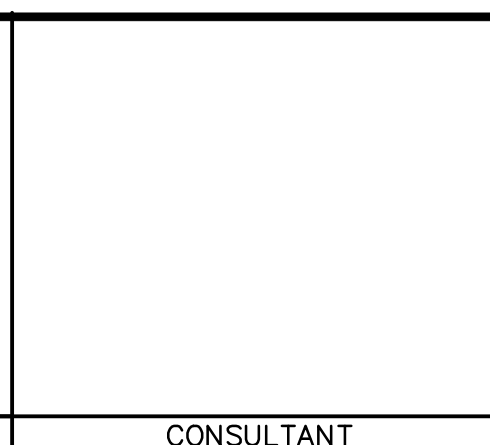
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 BY: _____

2. DATA TRANSFERRED BY: _____
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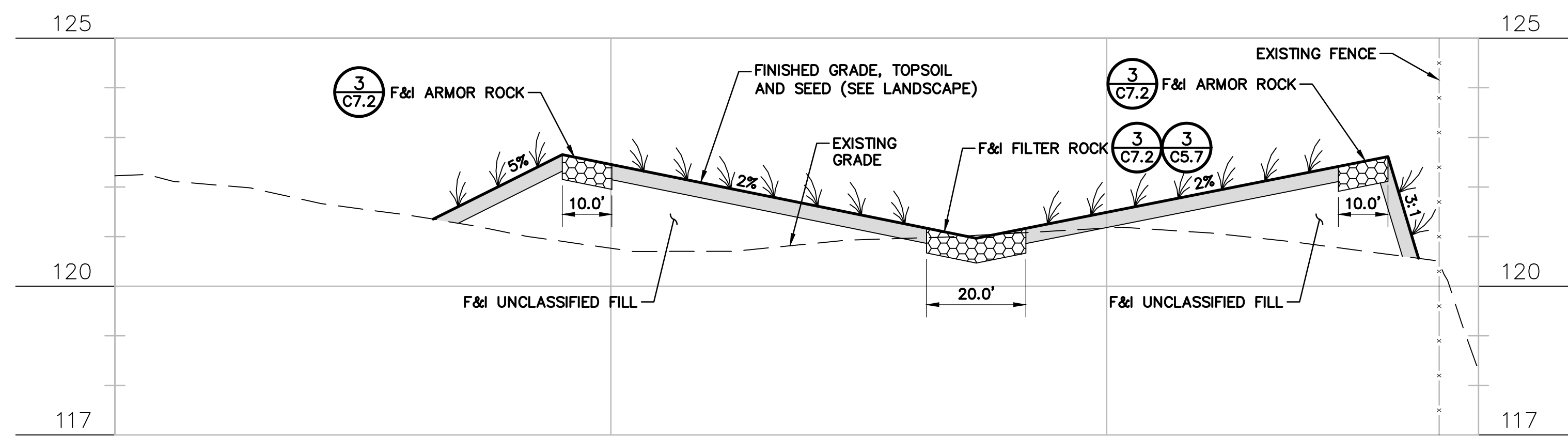
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

SOUTH - NORTH WWSB & SOUTH PARKING SITE SECTIONS

HORIZ SCALE: 1" = 20' DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: 1" = 2'
 PROJ. ID.: WW.H7775

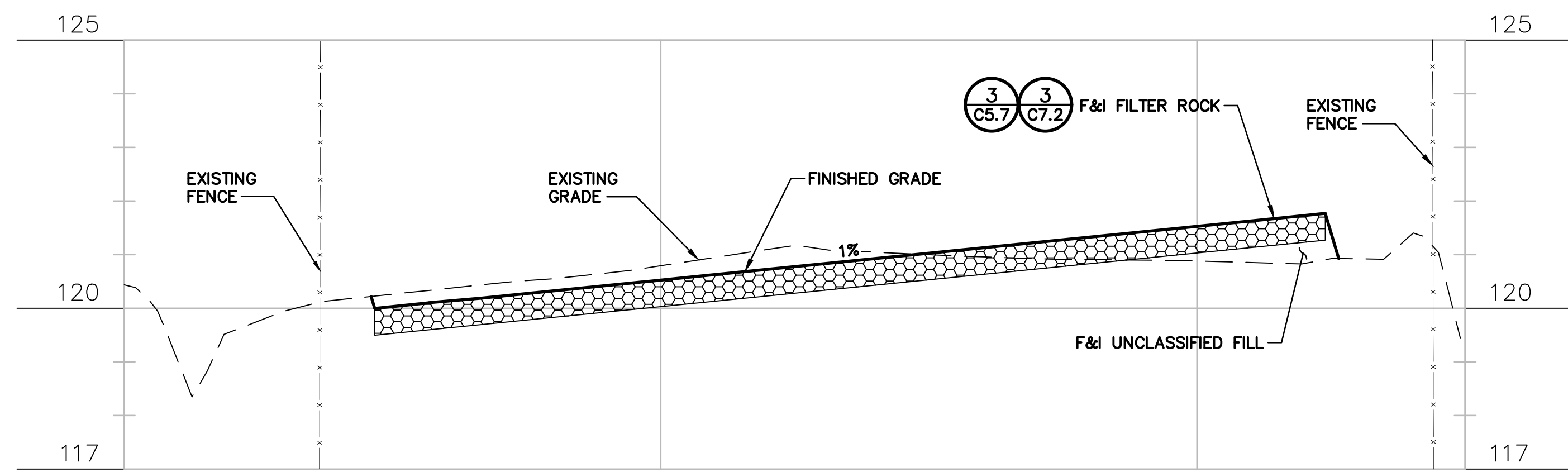
DWG C5.5

SHEET 50 of 288



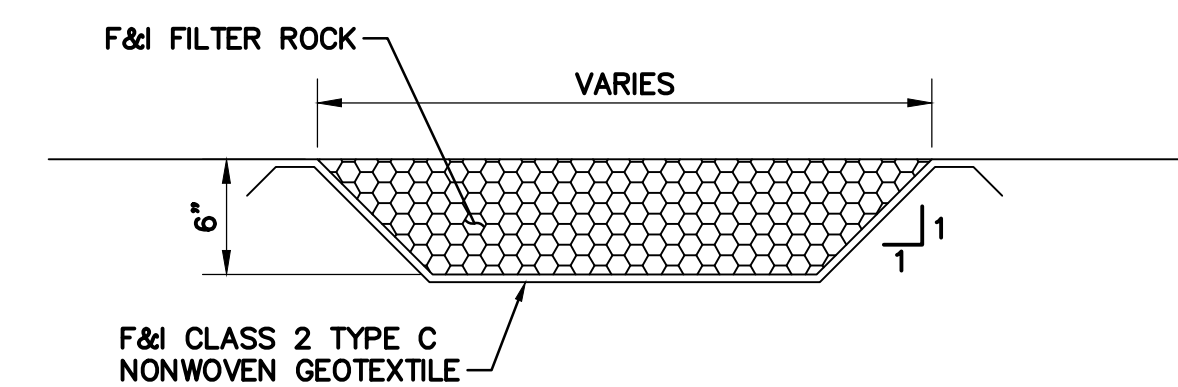
SITE SECTION—SNOW STORAGE EAST—WEST
SCALE: 1" = 20' HORIZONTAL 1" = 2' VERTICAL

1
C5.7



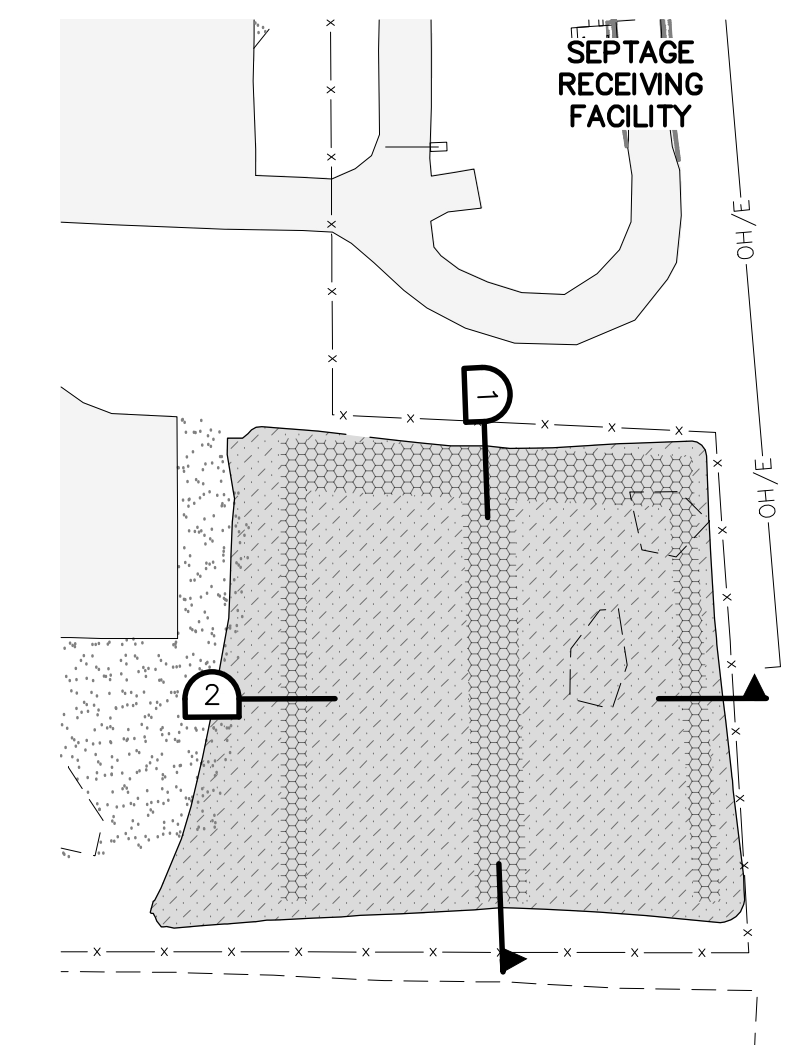
SITE SECTION—SNOW STORAGE NORTH—SOUTH
SCALE: 1" = 20' HORIZONTAL 1" = 2' VERTICAL

2
C5.7



ARMOR ROCK SECTION
SCALE: 1" = 10'

3
C5.7



SECTION KEY PLAN
NTS

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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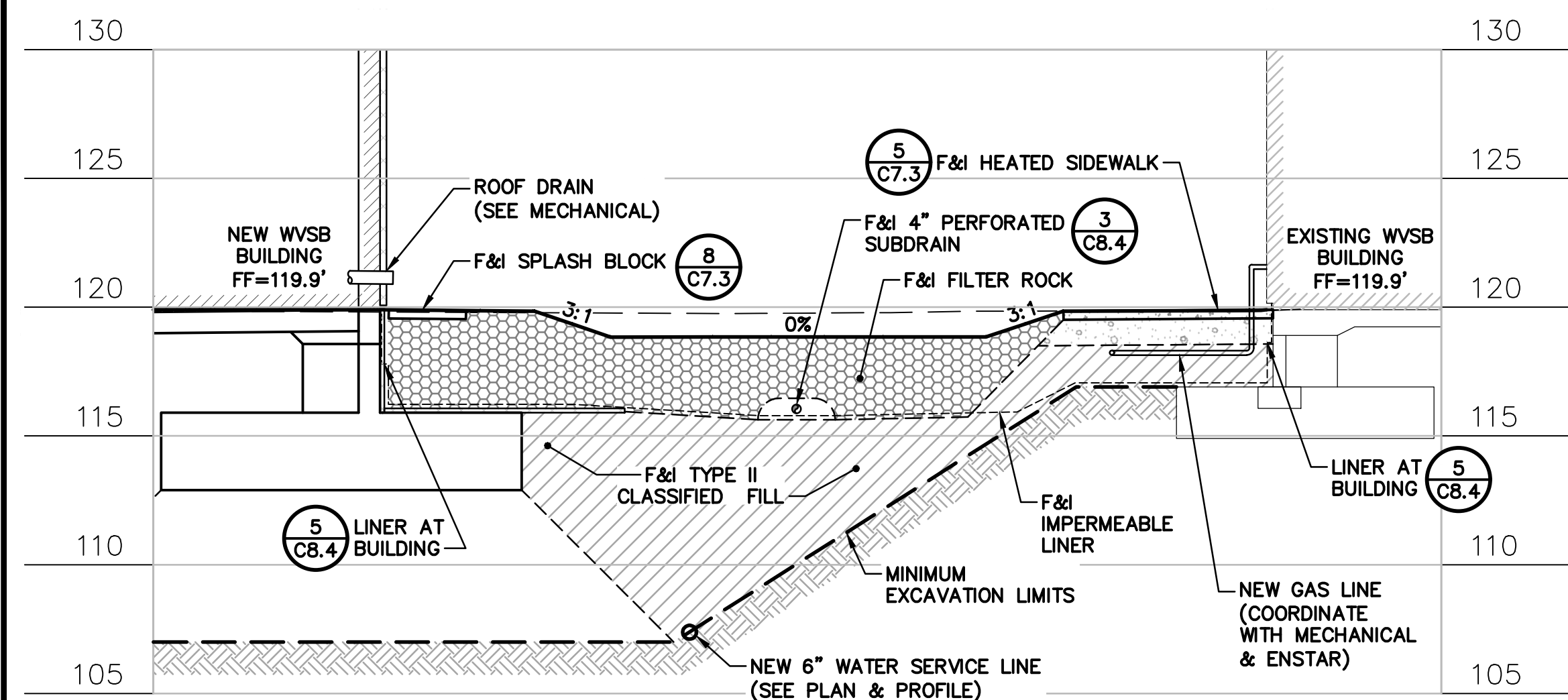
UMIAQ Design LLC
6700 Arctic Spur Road
Anchorage, AK 99518 (907) 677-8220
PRIME CONSULTANT

CONSULTANT

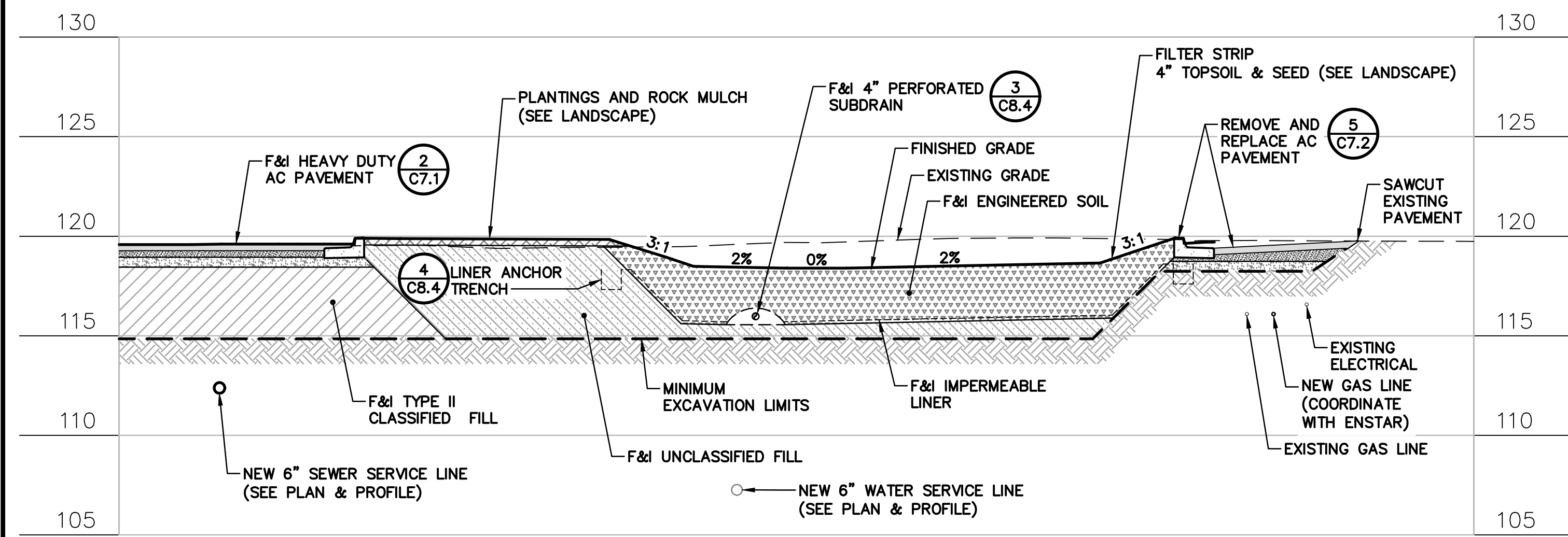
STATE OF ALASKA
49th
Sarah S. Moyers
04/26/2021
CE-12802
REGISTERED PROFESSIONAL ENGINEER
AECL 1316 SEAL

AWWU

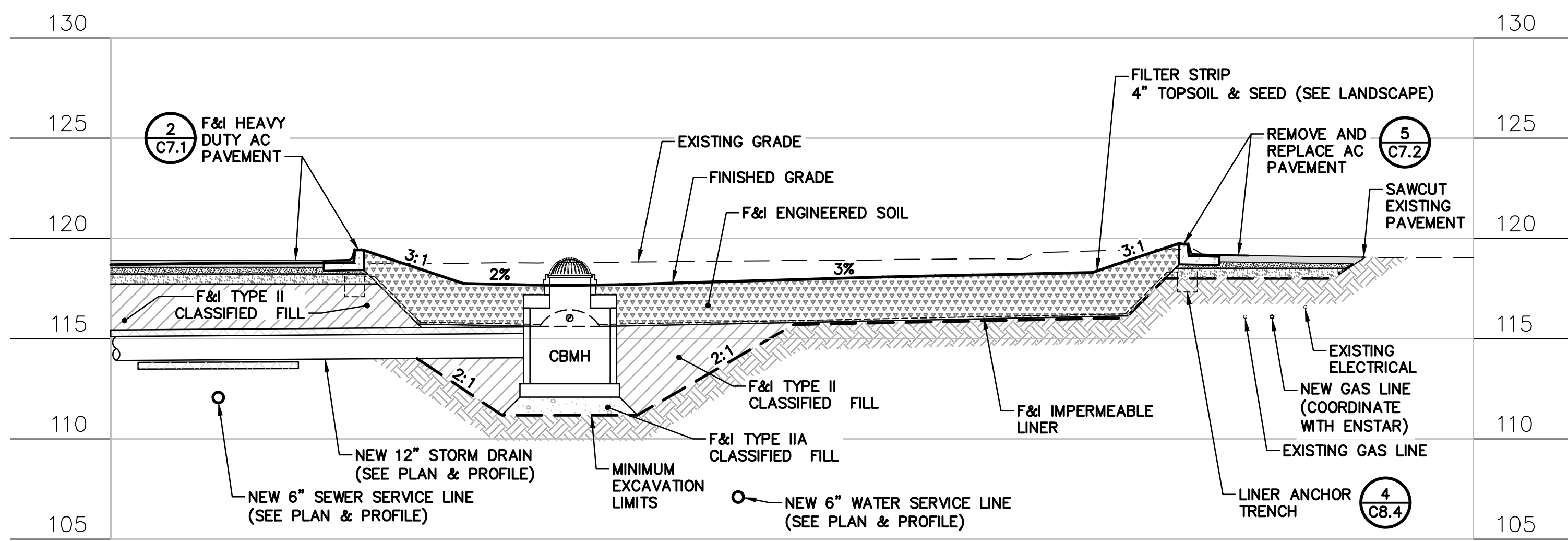
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
**SNOW STORAGE AREA
DETAILED SITE SECTIONS**
HORZ SCALE: 1" = 20' DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: 1" = 2'
PROJ. ID.: WW.H7775
DWG
C5.7
SHEET 52 of 288



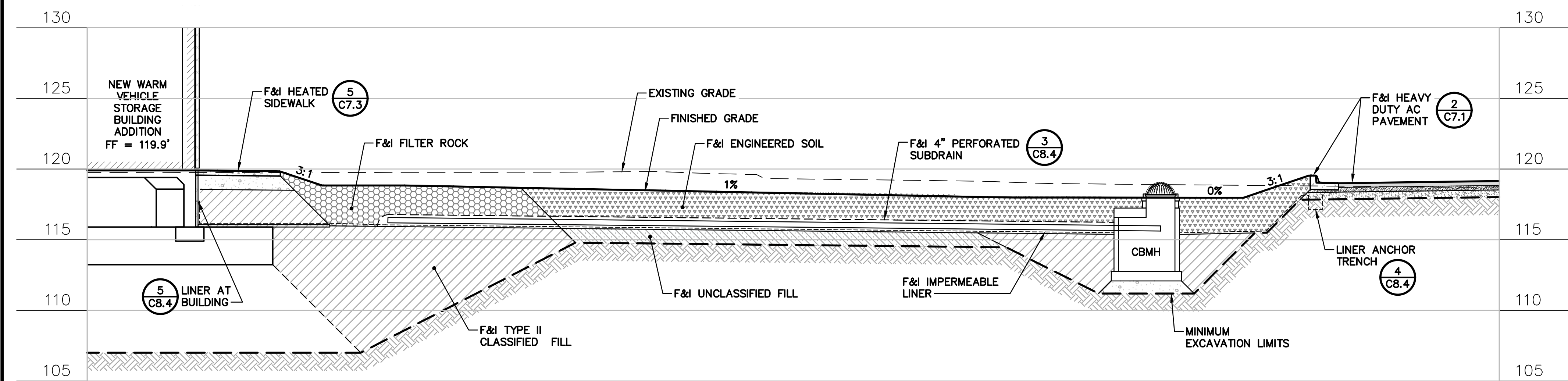
SITE SECTION-BIORETENTION ROOF DRAIN
SCALE: 1" = 5' HORIZONTAL 1" = 5' VERTICAL



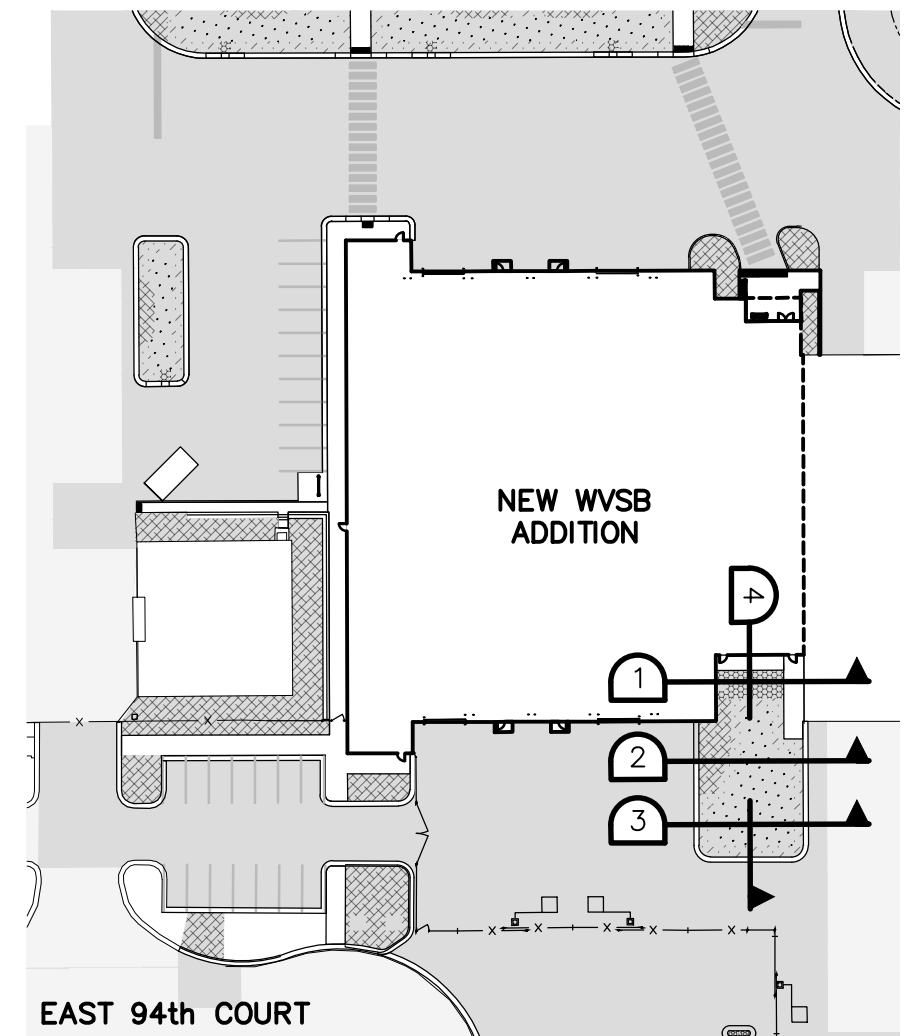
SITE SECTION-BIORETENTION LANDSCAPE AREA
SCALE: 1" = 5' HORIZONTAL 1" = 5' VERTICAL



SITE SECTION-BIORETENTION CBMH
SCALE: 1" = 5' HORIZONTAL 1" = 5' VERTICAL



SITE SECTION-BIORETENTION SUBDRAIN
SCALE: 1" = 5' HORIZONTAL 1" = 5' VERTICAL



SECTION KEY PLAN
NTS

REV	DATE	DESCRIPTION	BY

VERIFY SCALE
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

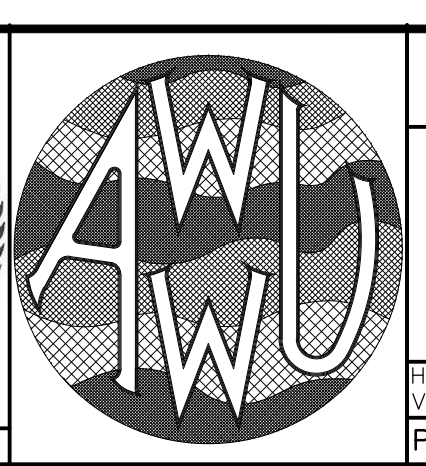
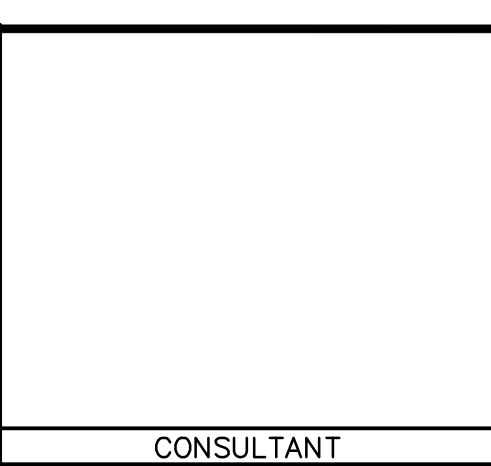
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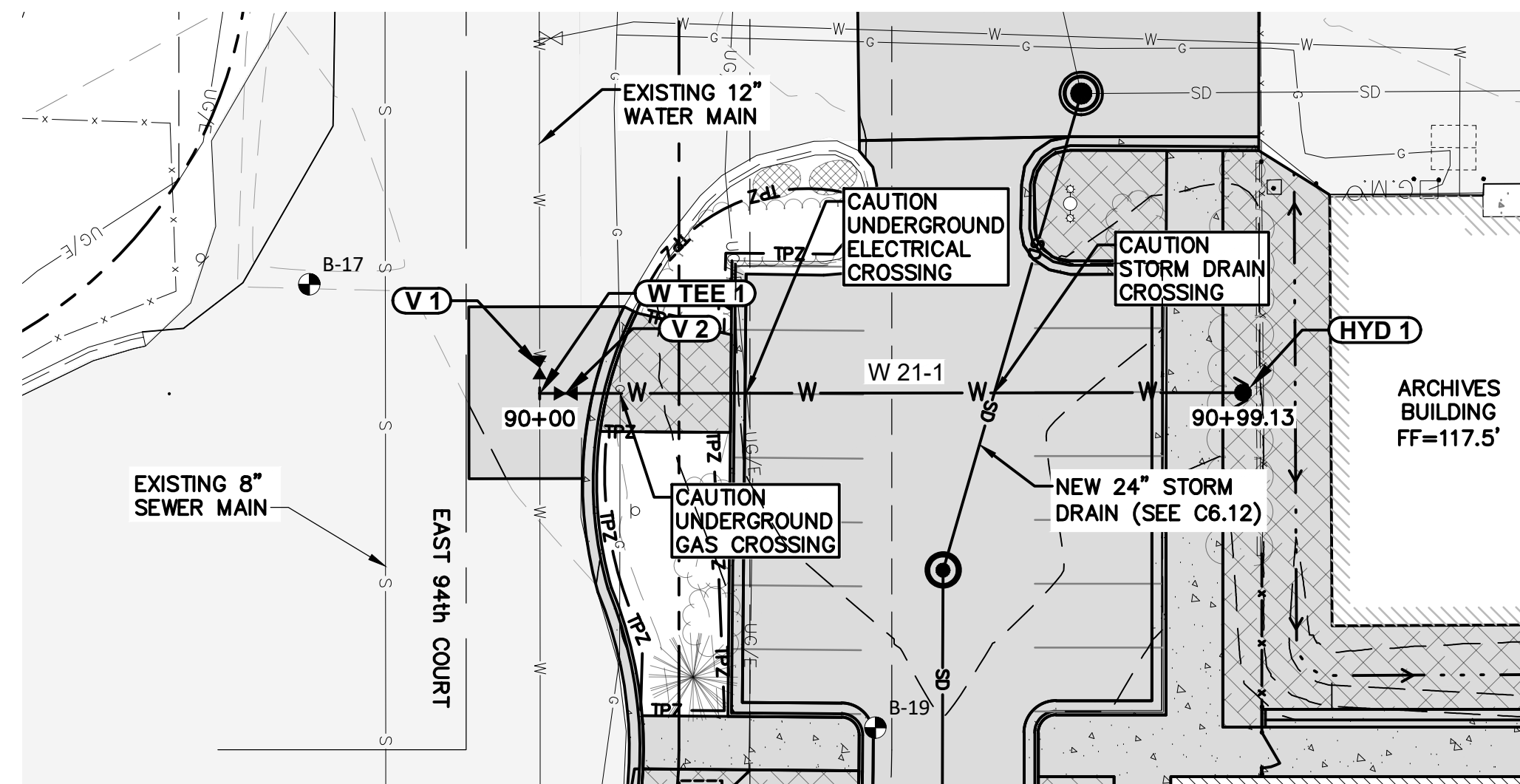
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

UTILITY AREA DETAILED
SITE SECTIONS

DWG
C5.11

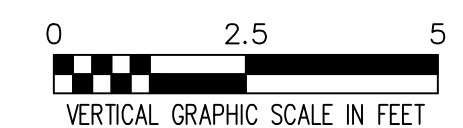
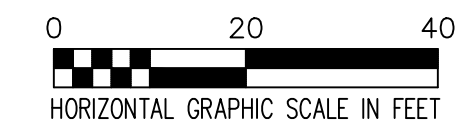
HORIZ SCALE: 1" = 5'
VERT SCALE: 1" = 5'
DATE: APRIL 2021
GRID: SW 2431
PROJ. ID.: WW.H7775

SHEET 56 of 288

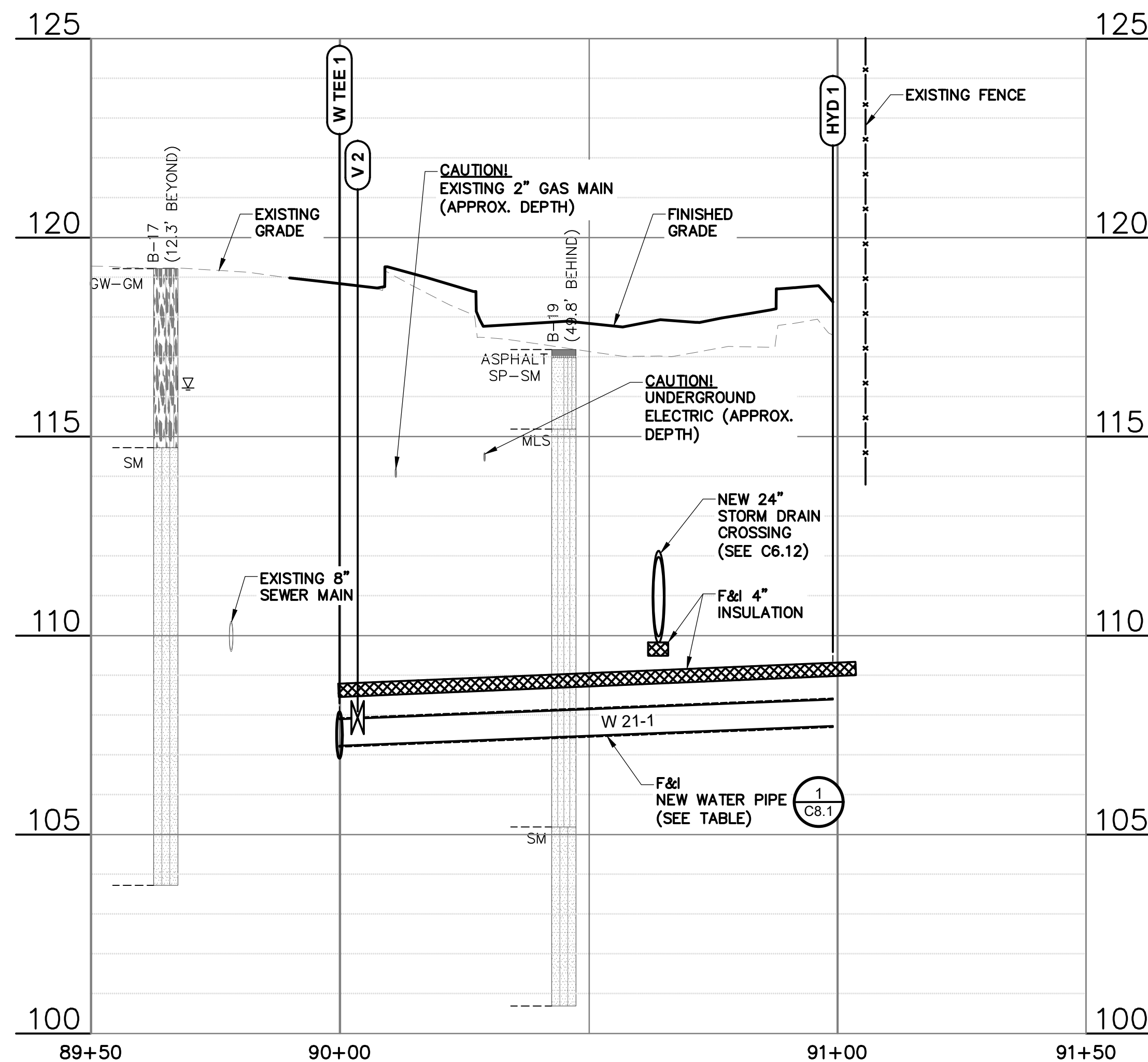


SOUTHWEST HYDRANT PLAN

SCALE: 1" = 20'



CAUTION:
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SOUTHWEST HYDRANT PROFILE

SCALE: 1" = 20' HORIZONTAL 1" = 2.5' VERTICAL

NOTES

- SEE WATER AND SEWER NOTES ON C0.2 FOR ADDITIONAL REQUIREMENTS.
- PIPE LENGTHS ARE FROM CENTER OF MANHOLE OR FITTING TO CENTER OF MANHOLE OR FITTING.
- MINIMUM VERTICAL SEPARATION BETWEEN WATER AND SANITARY SEWER OR STORM DRAIN IS 18". WATER JOINTS SHALL BE EQUIDISTANT (MIN. 9') FROM SEWER CROSSING LOCATION.

PIPE TABLE					
PIPE NAME	MATERIAL	SIZE	LENGTH	SLOPE	BEARING
W 21-1	PVC Pipe	8"	95.5'	0.50%	N00° 14' 56.4"W

MINOR STRUCTURES					
STRUCTURE	STATION	OFFSET	COORDINATES	DESCRIPTION	DETAIL INFORMATION
W TEE 1	90+00.0	0.00	N=2607043.8 E=1662420.1	F&I 12" x 12" x 8" DIP TEE	60-08 MASS
V 1	90+00.0	-3.66	N=2607043.8 E=1662416.4	F&I 12" WATER GATE VALVE ON MAIN	60-06 MASS
V 2	90+03.7	0.00	N=2607047.5 E=1662420.1	F&I 8" GATE VALVE	60-08 MASS
HYD 1	90+99.1	0.00	N=2607143.0 E=1662419.7	F&I DOUBLE PUMPER FIRE HYDRANT	60-11 MASS

VERIFY SCALE		
REV	DATE	DESCRIPTION

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

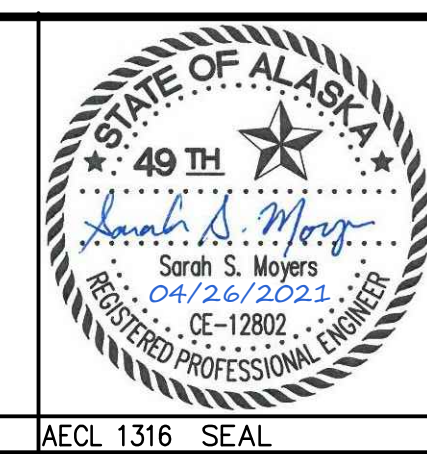
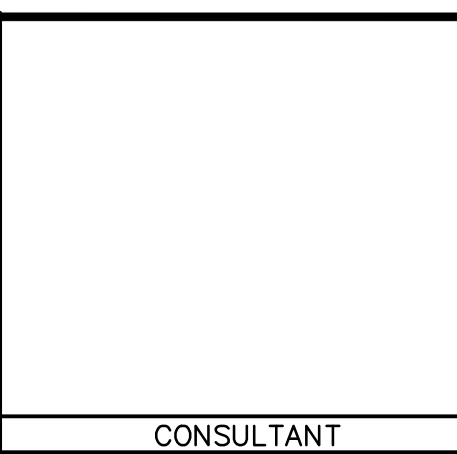
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WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

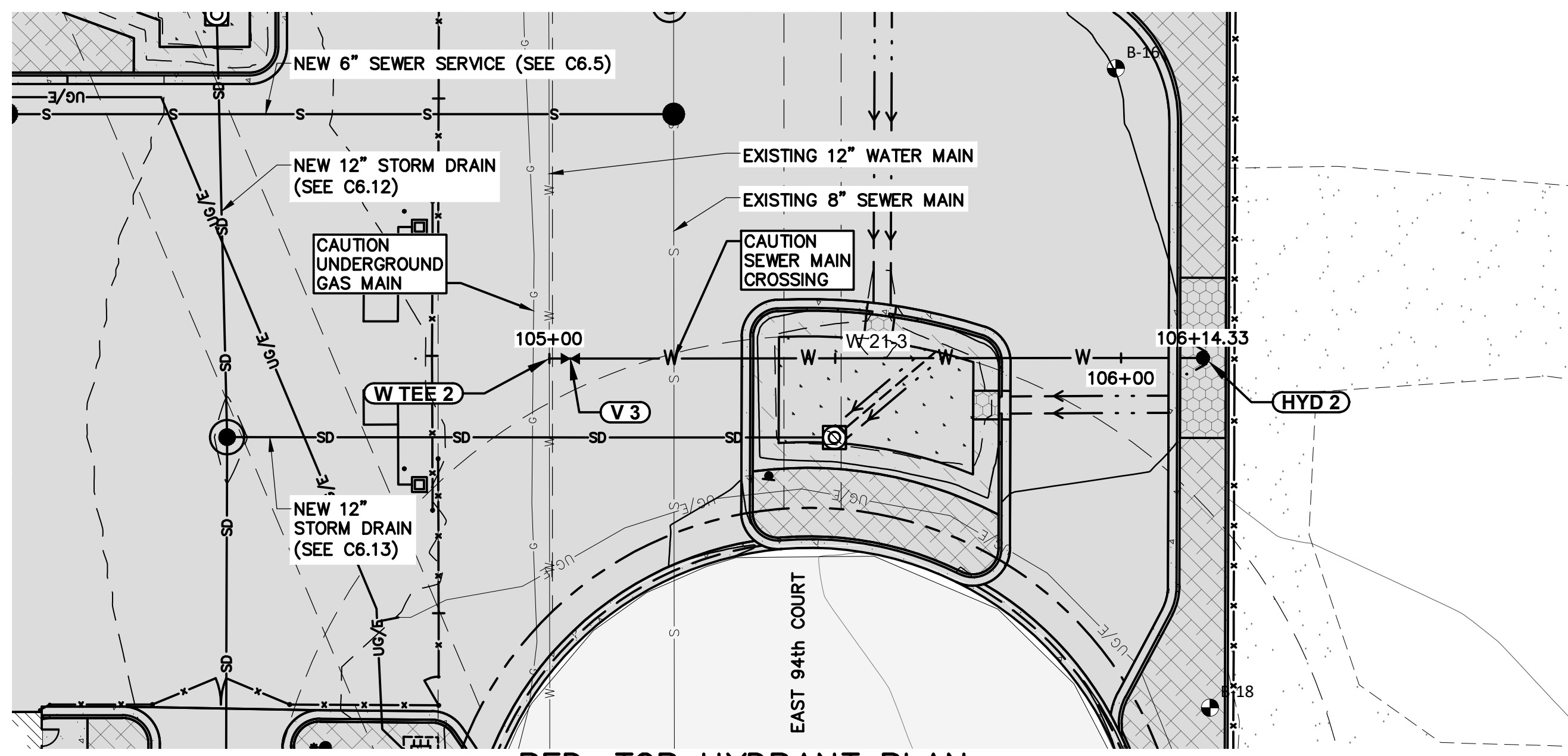
WATER SOUTHWEST HYDRANT PLAN & PROFILE STA 90+00 TO STA 90+99

DATE: APRIL 2021 GRID: SW 2431

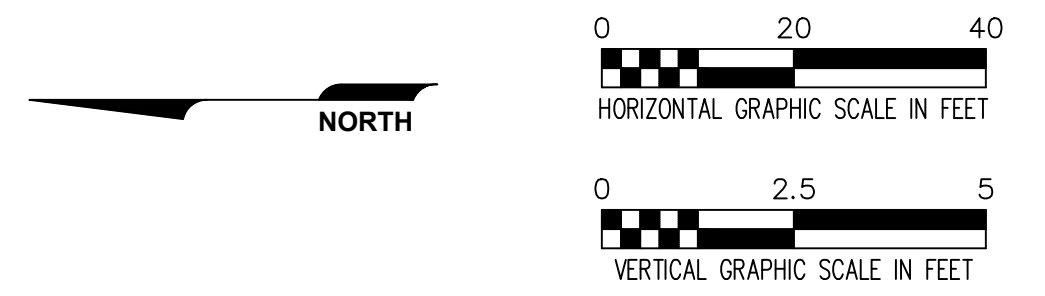
PROJ. ID.: WW.H7775

DWG C6.2

SHEET 58 of 288



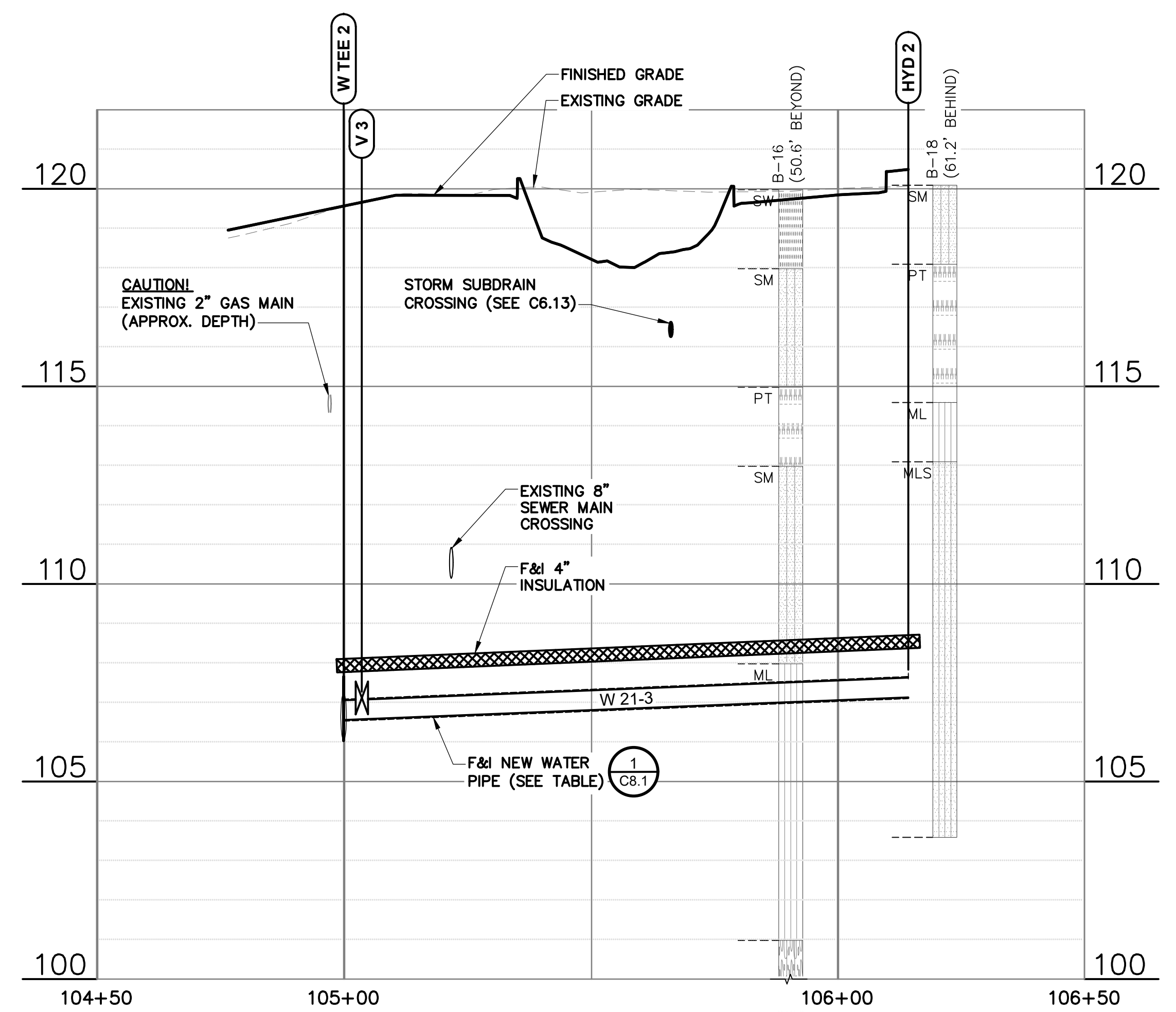
RED-TOP HYDRANT PLAN
SCALE: 1" = 20'



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NOTES

- SEE WATER AND SEWER NOTES ON C0.2 FOR ADDITIONAL REQUIREMENTS.
- PIPE LENGTHS ARE FROM CENTER OF MANHOLE OR FITTING TO CENTER OF MANHOLE OR FITTING.
- MINIMUM VERTICAL SEPARATION BETWEEN WATER AND SANITARY SEWER OR STORM DRAIN IS 18". WATER JOINTS SHALL BE EQUIDISTANT (MIN. 9') FROM SEWER CROSSING LOCATION.



RED-TOP HYDRANT PROFILE
SCALE: 1" = 20' HORIZONTAL 1" = 2.5' VERTICAL

PIPE TABLE					
PIPE NAME	MATERIAL	SIZE	LENGTH	SLOPE	BEARING
W 21-3	PVC Pipe	6"	114.2'	0.50%	S00° 14' 25.0"E

MINOR STRUCTURES				
STRUCTURE	STATION	COORDINATES	DESCRIPTION	DETAIL INFORMATION
W TEE 2	105+00.0	N=2607044.5 E=1662561.4	F&I 12" x 12" x 6" DIP TEE	60-06 MASS
V 3	105+03.7	N=2607040.8 E=1662561.4	F&I 6" GATE VALVE	60-08 MASS
HYD 2	106+14.3	N=2606930.1 E=1662561.8	F&I RED TOP FIRE HYDRANT	60-10 MASS

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

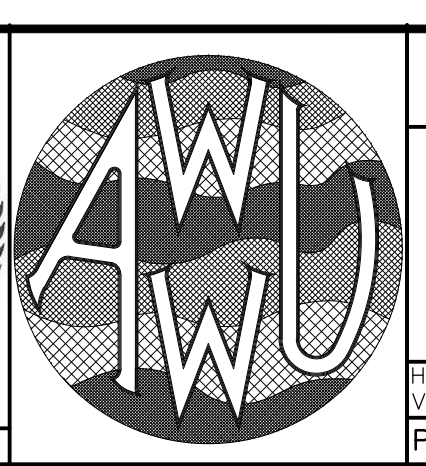
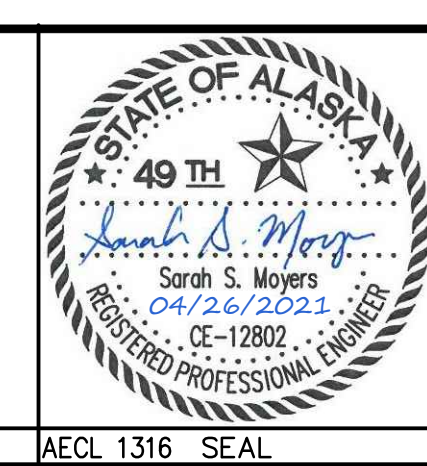
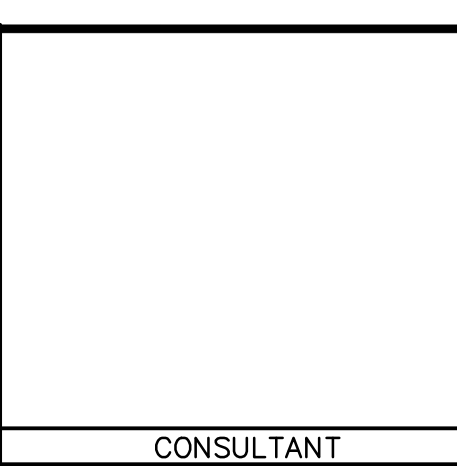
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

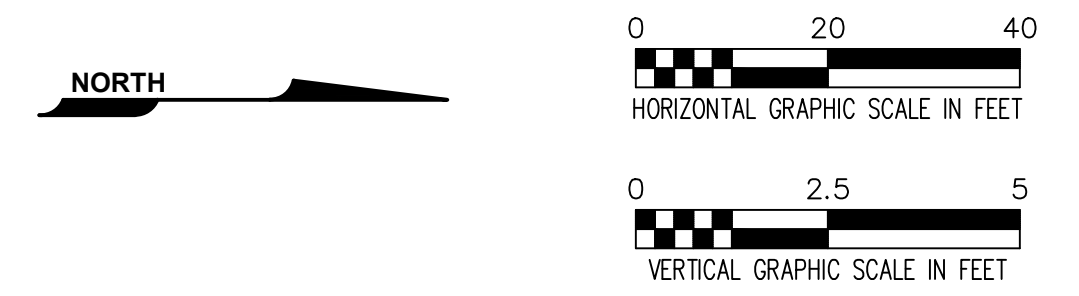
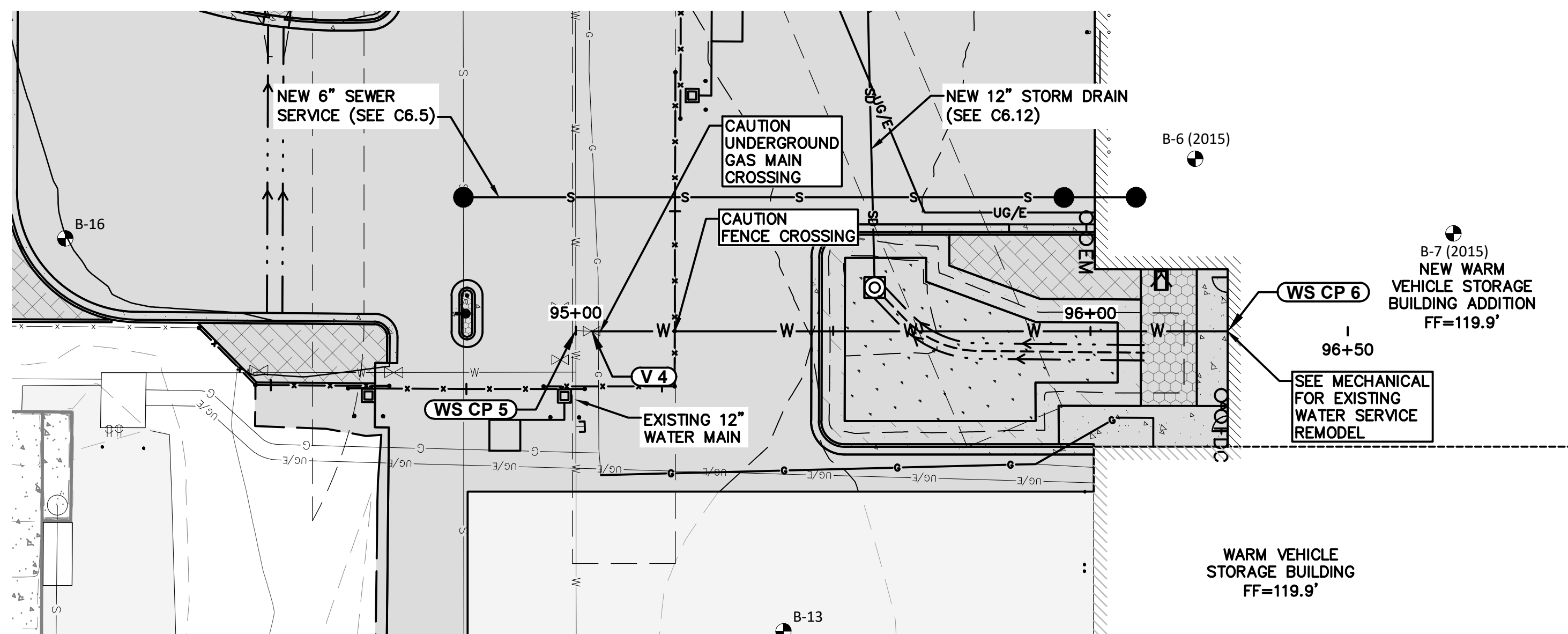
WATER RED-TOP HYDRANT PLAN & PROFILE STA 105+00 TO STA 106+14

DATE: APRIL 2021 GRID: SW 2431

PROJ. ID.: WW.H7775

DWG C6.3

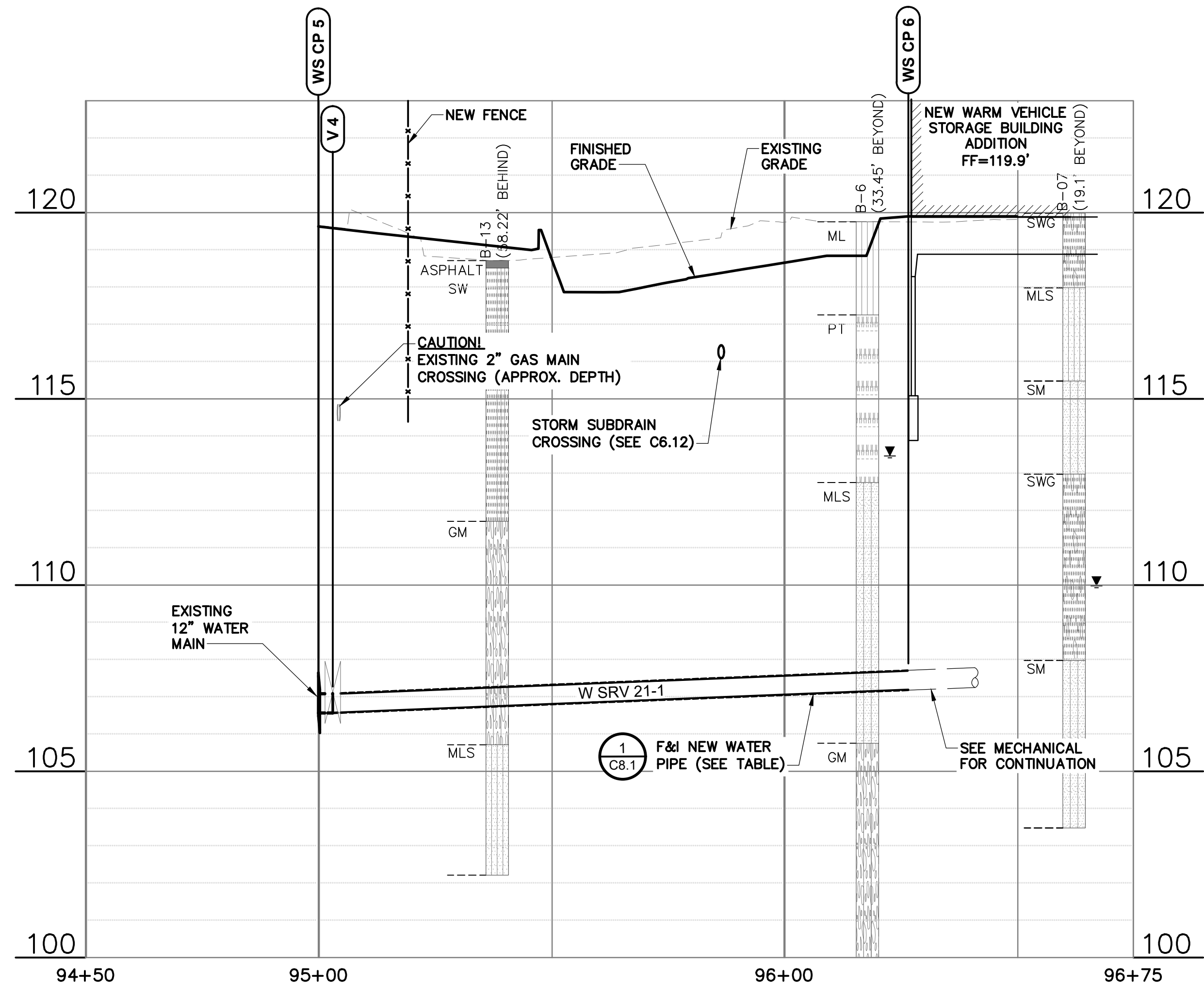
SHEET 59 of 288



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WATER SERVICE PLAN

SCALE: 1" = 20'



WATER SERVICE PROFILE

SCALE: 1" = 20' HORIZONTAL 1" = 2.5' VERTICAL

NOTES

- SEE WATER AND SEWER NOTES ON C0.2 FOR ADDITIONAL REQUIREMENTS.
- PIPE LENGTHS ARE FROM CENTER OF MANHOLE OR FITTING TO CENTER OF MANHOLE OR FITTING.
- MINIMUM VERTICAL SEPARATION BETWEEN WATER AND SANITARY SEWER OR STORM DRAIN IS 18". WATER JOINTS SHALL BE EQUIDISTANT (MIN. 9") FROM SEWER CROSSING LOCATION.
- FIELD VERIFY CONDITION OF GATE VALVE, REPLACE IF NECESSARY.

PIPE TABLE					
PIPE NAME	MATERIAL	SIZE	LENGTH	SLOPE	BEARING
W SRV 21-1	PVC Pipe	6"	123.6'	0.50%	N00° 07' 04.6"W

MINOR STRUCTURES				
STRUCTURE	STATION	COORDINATES	DESCRIPTION	DETAIL INFORMATION
WS CP 5	95+00.0	N=2607044.7 E=1662630.0	CONNECT TO EXISTING 12" DIP WATER MAIN	
V 4	95+03.1	N=2607047.8 E=1662630.0	CONNECT TO EXISTING 6" GATE VALVE (SEE NOTE 3)	60-08 MASS
WS CP 6	96+26.7	N=2607171.4 E=1662629.7	PROVIDE CONNECTION TO BUILDING (SEE MECHANICAL)	

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

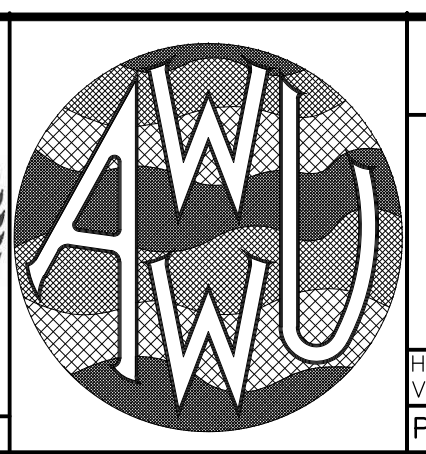
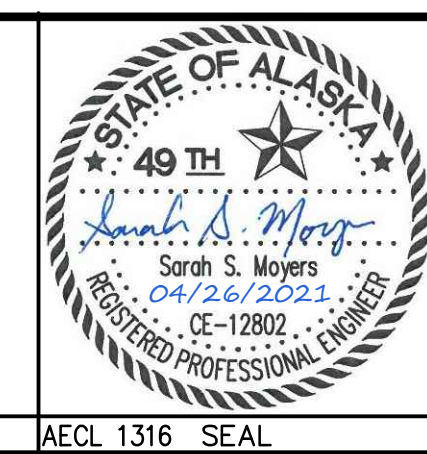
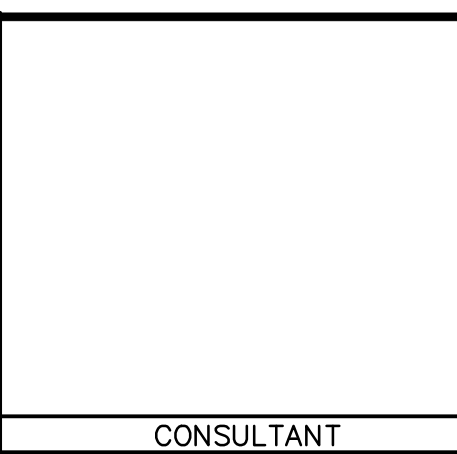
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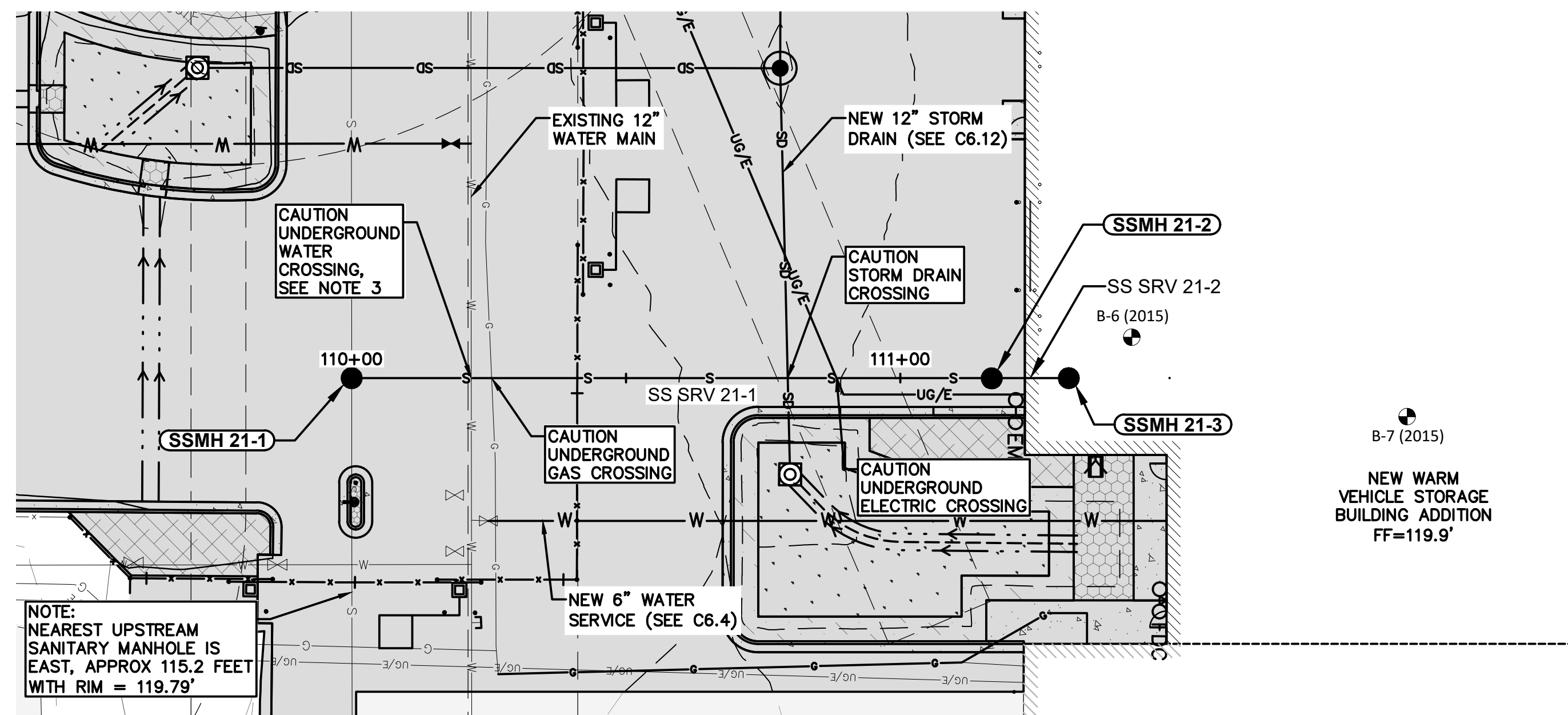
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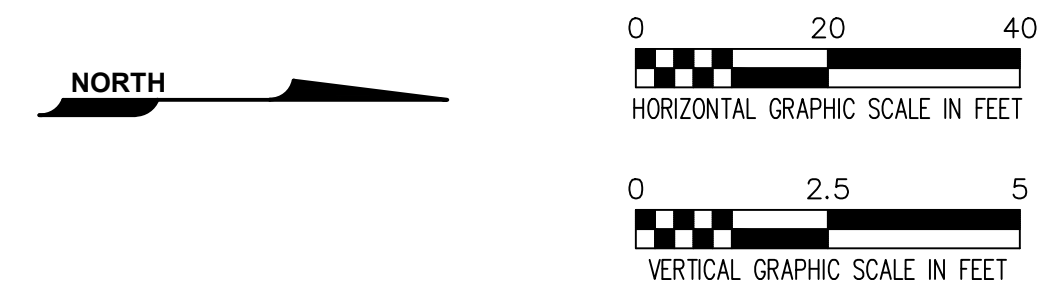
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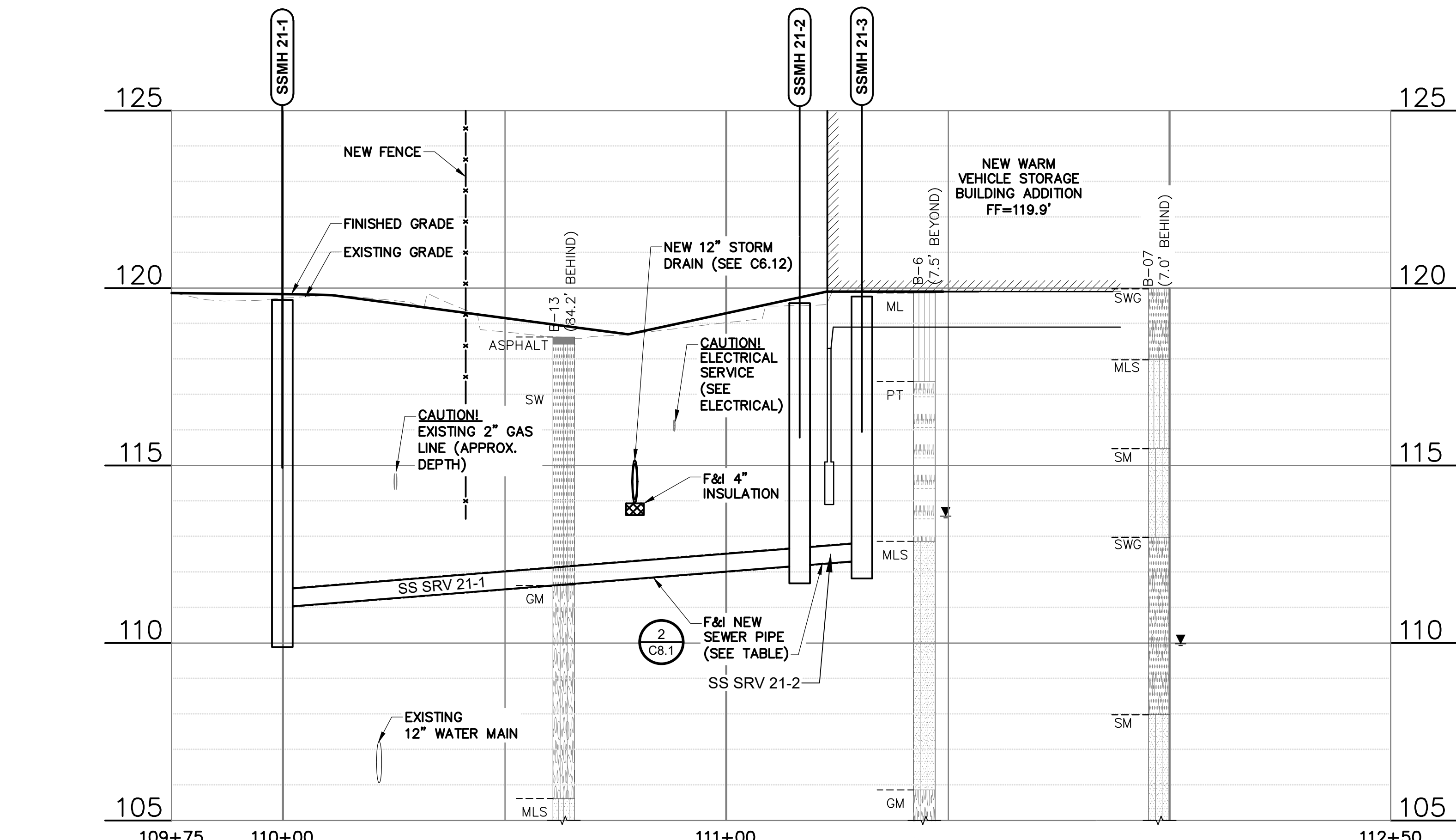
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
WATER SERVICE PLAN & PROFILE STA 95+00 TO STA 96+26
DWG C6.4
HORZ SCALE: 1" = 20' DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: 1" = 2.5'
PROJ. ID.: WW.H7775
SHEET 60 of 288



SEWER SERVICE PLAN
SCALE: 1" = 20'



CAUTION:
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SEWER SERVICE PROFILE
SCALE: 1" = 20' HORIZONTAL 1" = 2.5' VERTICAL

NOTES

- SEE WATER AND SEWER NOTES ON C0.2 FOR ADDITIONAL REQUIREMENTS.
- PIPE LENGTHS ARE FROM CENTER OF MANHOLE OR FITTING TO CENTER OF MANHOLE OR FITTING.
- MINIMUM VERTICAL SEPARATION BETWEEN WATER AND SANITARY SEWER OR STORM DRAIN IS 18". WATER JOINTS SHALL BE EQUIDISTANT (MIN. 9") FROM SEWER CROSSING LOCATION. SEWER JOINTS SHALL BE EQUIDISTANT (MIN. 9") FROM WATER CROSSING LOCATION.
- INVERTS MEASURED AT CENTER OF MANHOLE.
- COORDINATE SSMH 21-3 ELEVATIONS WITH ARCHITECTURAL AND MECHANICAL. SEE MECHANICAL FOR BACKWATER VALVE.
6. RIM ADJUSTMENT INDICATES DEPTH ABOVE (+) OR BELOW (-) FINISHED GRADE SURFACE. RIM ELEVATION ACCOUNTS FOR THE RIM ADJUSTMENT.

PIPE TABLE					
PIPE NAME	MATERIAL	SIZE	LENGTH	SLOPE	BEARING
SS SRV 21-1	PVC	6"	116.7'	1.00%	S00° 10' 35.4"E
SS SRV 21-2	PVC	6"	14.0'	1.00%	S00° 10' 35.6"E

MAJOR STRUCTURES								
STRUCTURE	STATION	COORDINATES	DESCRIPTION	MANHOLE TYPE	COVER TYPE	INVERTS AND CONNECTED PIPE NAME	MANHOLE ELEV	DETAIL INFORMATION
SSMH 21-1	110+00.0	N=2607022.8 E=1662604.2	F&I SANITARY SEWER MANHOLE MODIFY AND CONNECT EXISTING 8" SEWER MAIN	TYPE A	Standard	INV IN = 111.01' NAME: SS SRV 21-1 INV IN = 110.39' NAME: SS MAIN 80-4 INV OUT = 110.39' NAME: SS MAIN 80-5	RIM ELEV: 119.67' RIM ADJUSTMENT: -0.16'	50-1 MASS
SSMH 21-2	111+16.7	N=2607139.5 E=1662603.8	F&I SANITARY SEWER CLEANOUT MANHOLE	48" HORSE SHOE	Standard	INV IN = 112.18' NAME: SS SRV 21-2 INV OUT = 112.18' NAME: SS SRV 21-1	RIM ELEV: 119.58' RIM ADJUSTMENT: -0.16'	50-23 MASS
SSMH 21-3	111+30.7	N=2607153.5 E=1662603.8	F&I SANITARY SEWER BACKWATER VALVE MANHOLE (SEE MECHANICAL)	TYPE A	Standard	INV OUT = 112.32' NAME: SS SRV 21-2	RIM ELEV: 119.77' RIM ADJUSTMENT: N/A	50-1 MASS

REV	DATE	DESCRIPTION	BY

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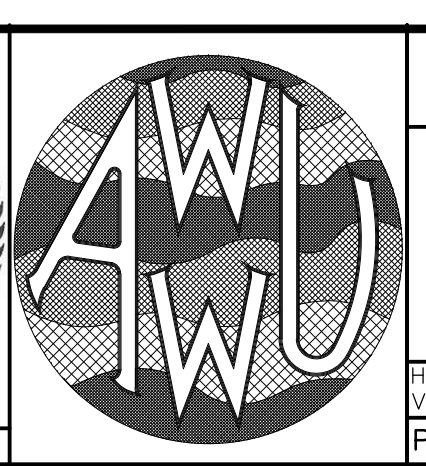
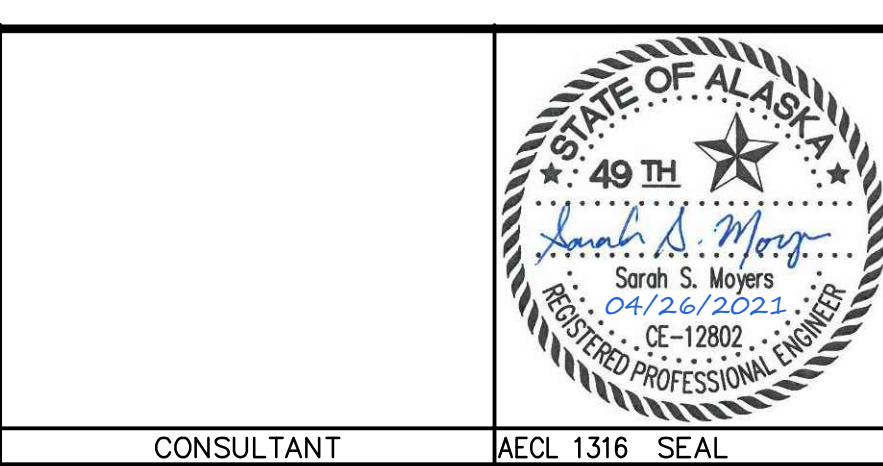
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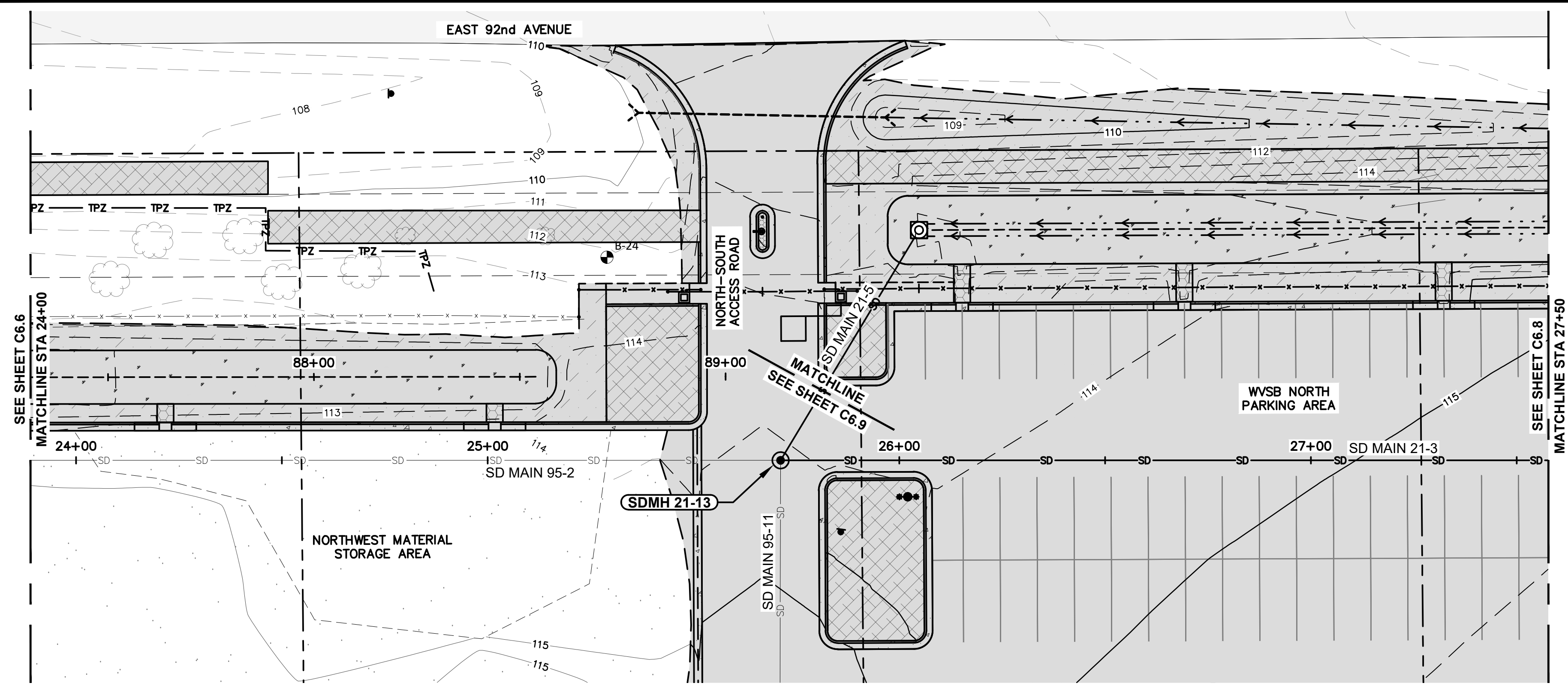
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

SANITARY SEWER SERVICE PLAN & PROFILE STA 110+00 TO STA 111+29

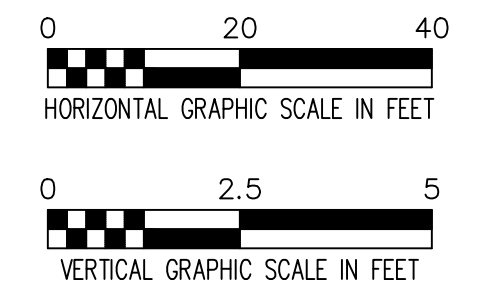
DATE: APRIL 2021
GRID: SW 2431
PROJ. ID.: WW.H7775

DWG
C6.5

SHEET 61 of 288



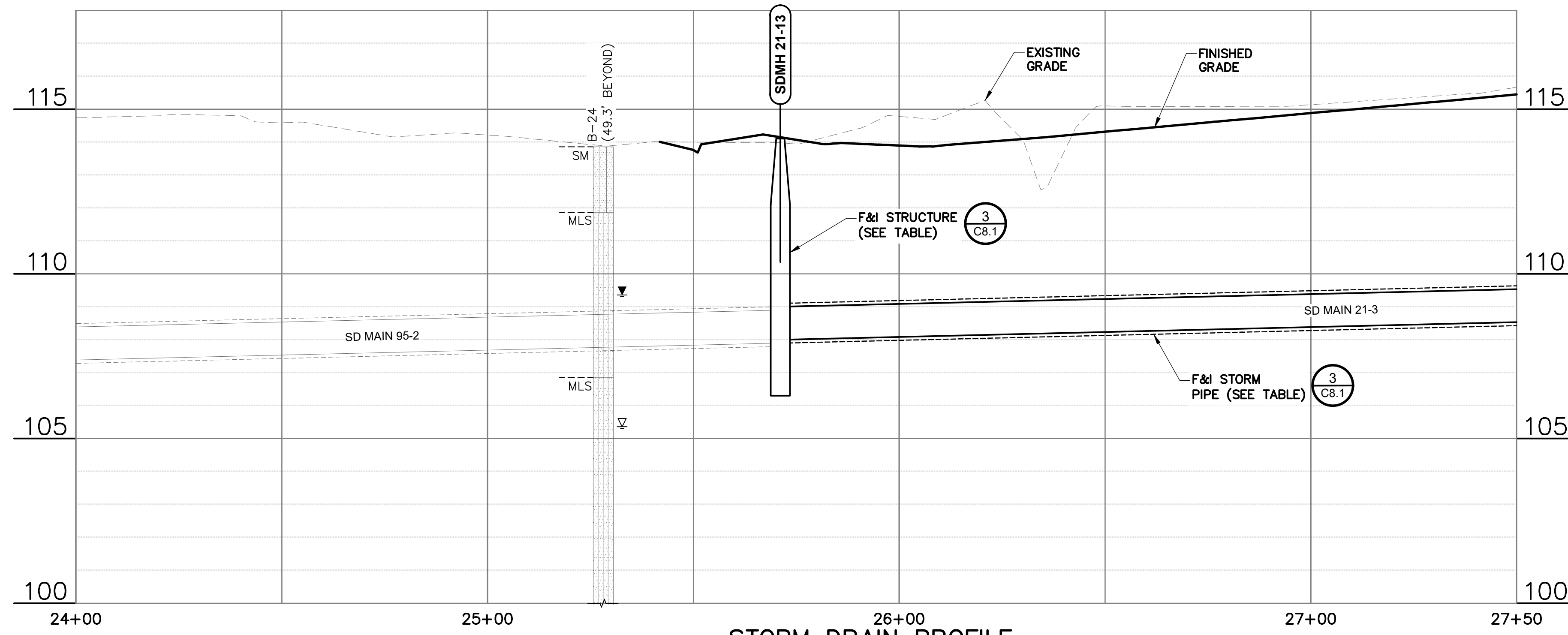
STORM DRAIN PLAN
SCALE: 1" = 20'



CAUTION:
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NOTES

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2. RIM ADJUSTMENT INDICATES DEPTH ABOVE (+) OR BELOW (-) FINISHED GRADE SURFACE. RIM ELEVATION ACCOUNTS FOR THE RIM ADJUSTMENT.
3. MINIMUM PIPE SLOPE FOR STORM DRAIN IS 0.3%.
4. MINIMUM VERTICAL SEPARATION BETWEEN WATER AND SANITARY SEWER OR STORM DRAIN IS 18". PROVIDE INSULATION UNLESS THE VERTICAL SEPARATION IS GREATER THAN 36".



STORM DRAIN PROFILE
SCALE: 1" = 20' HORIZONTAL 1" = 2.5' VERTICAL

PIPE TABLE					
PIPE NAME	MATERIAL	SIZE	LENGTH	SLOPE	BEARING
SD MAIN 21-3	TYPE S CPEP	12"	272.4'	0.30%	S89° 56' 33.4"E

MAJOR STRUCTURES							
STRUCTURE	STA	COORDINATES	MANHOLE TYPE	COVER TYPE	INVERTS AND CONNECTED PIPES	MANHOLE ELEVATIONS	DETAIL INFORMATION
SDMH 21-13	25+71.2	N=2607584.2 E=1662377.2	TYPE I SDMH	SOLID	INV IN = 107.90' PIPE: SD MAIN 95-11 INV IN = 108.00' PIPE: SD MAIN 21-3 INV IN = 108.00' PIPE: SD MAIN 21-5 INV OUT = 107.90' PIPE: SD MAIN 95-2	RIM ELEV: 114.11' RIM ADJUSTMENT: -0.04'	55-4 MASS 55-7 MASS

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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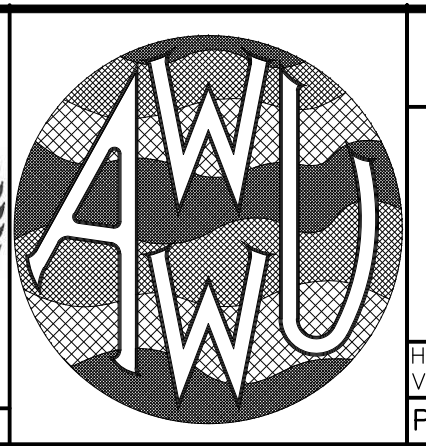
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CONSULTANT



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WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

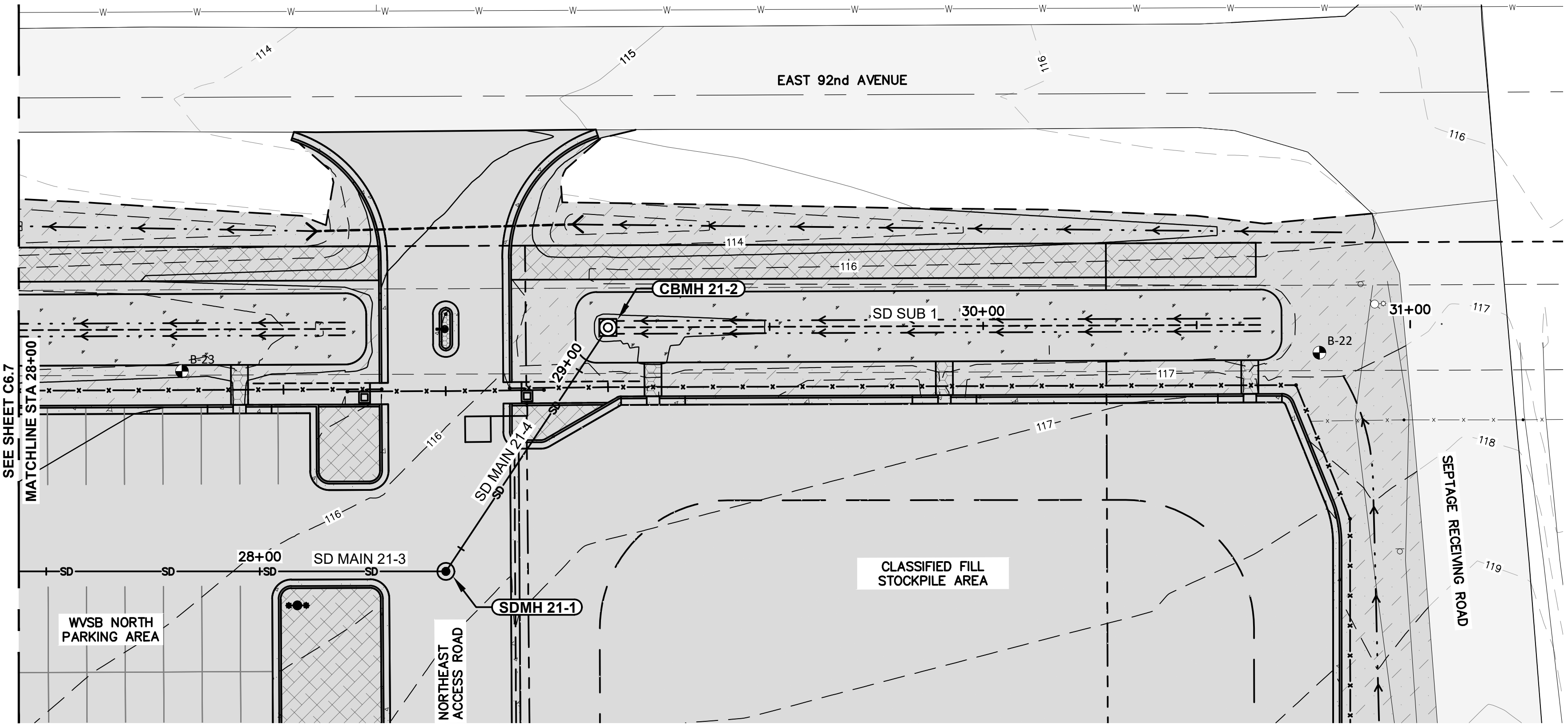
STORM DRAIN PLAN & PROFILE
STA 24+00 TO STA 27+50

DATE: APRIL 2021 GRID: SW 2431

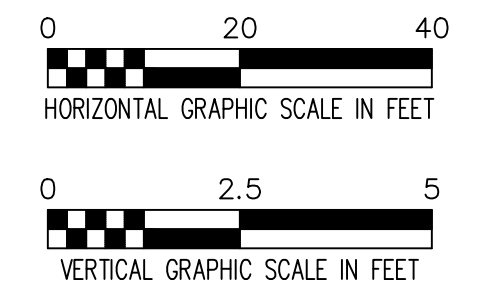
PROJ. ID.: WW.H7775

DWG
C6.7

SHEET 63 of 288



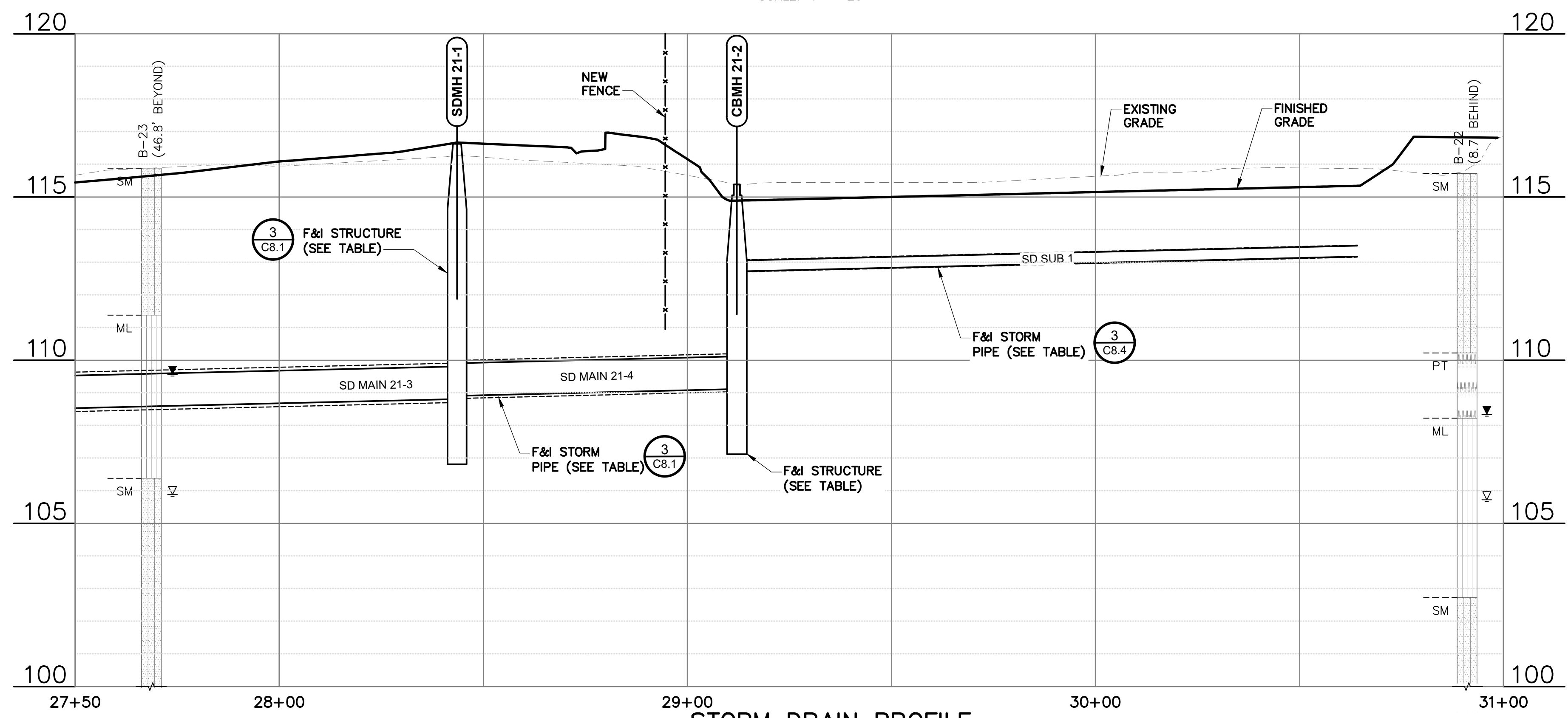
STORM DRAIN PLAN
SCALE: 1" = 20'



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- COORDINATE WITH OWNER TO RELOCATE CLASSIFIED FILL STOCKPILE PRIOR TO STORM DRAIN AND SITE WORK IN THIS AREA.



STORM DRAIN PROFILE
SCALE: 1" = 20' HORIZONTAL 1" = 2.5' VERTICAL

PIPE TABLE					
PIPE NAME	MATERIAL	SIZE	LENGTH	SLOPE	BEARING
SD MAIN 21-4	TYPE S CPEP	12"	68.6'	0.31%	N33° 40' 23.4"E

SUBDRAIN PIPE TABLE						
PIPE NAME	MATERIAL	SIZE	LENGTH	SLOPE	BEARING	END ELEV
SD SUB 1	PERFORATED SUBDRAIN	4"	152.0'	0.30%	N89° 49' 44.6"E	113.18'

MAJOR STRUCTURES							
STRUCTURE	STA	COORDINATES	MANHOLE TYPE	COVER TYPE	INVERTS AND CONNECTED PIPES	MANHOLE ELEVATIONS	DETAIL INFORMATION
SDMH 21-1	28+43.6	N=2607583.9 E=1662649.6	TYPE I SDMH	SOLID	INV IN = 108.91' PIPE: SD MAIN 21-4 INV OUT = 108.81' PIPE: SD MAIN 21-3	RIM ELEV: 116.63' RIM ADJUSTMENT: -0.04'	55-4 MASS 55-7 MASS
CBMH 21-2	29+12.2	N=2607641.0 E=1662687.7	TYPE I CBMH	BEEHIVE	INV IN = 112.72' PIPE: SD SUB 1 INV OUT = 109.12' PIPE: SD MAIN 21-4	RIM ELEV: 115.39' RIM ADJUSTMENT: 0.50'	55-4 MASS 55-9 MASS

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

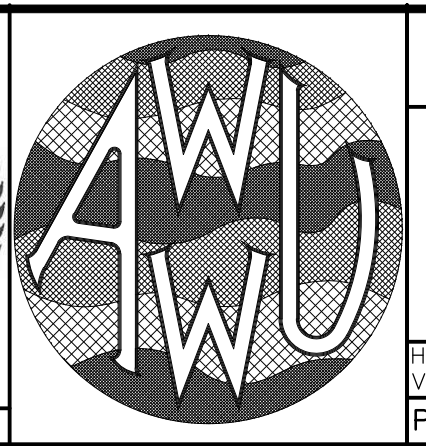
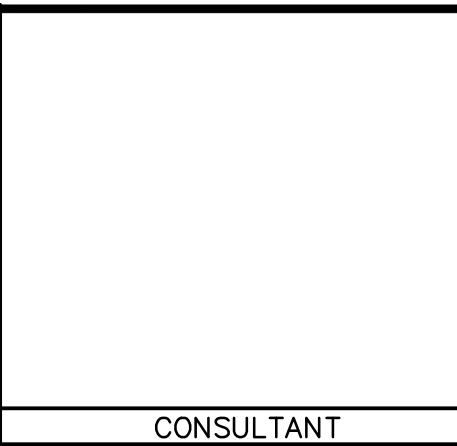
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

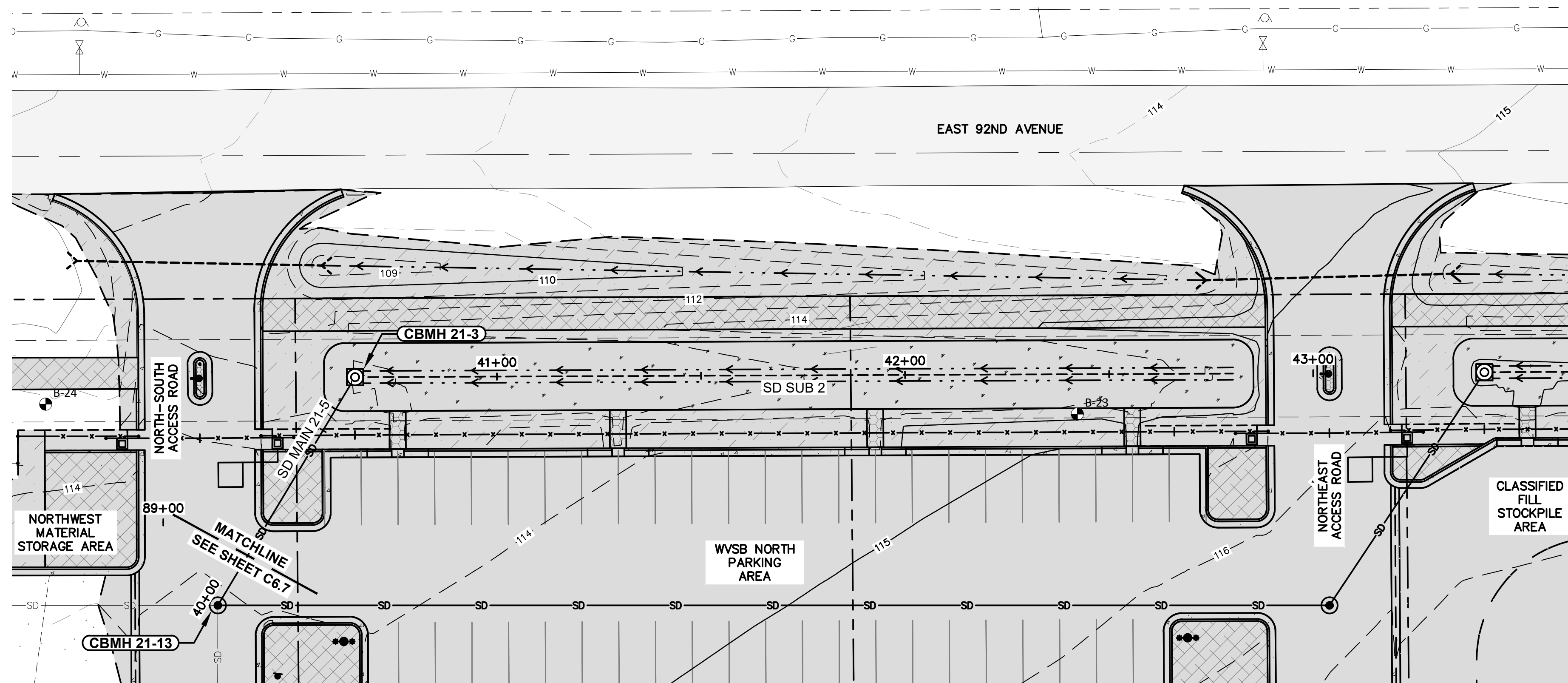
STORM DRAIN PLAN & PROFILE
STA 27+50 TO STA 31+00

DATE: APRIL 2021 GRID: SW 2431

PROJ. ID.: WW.H7775

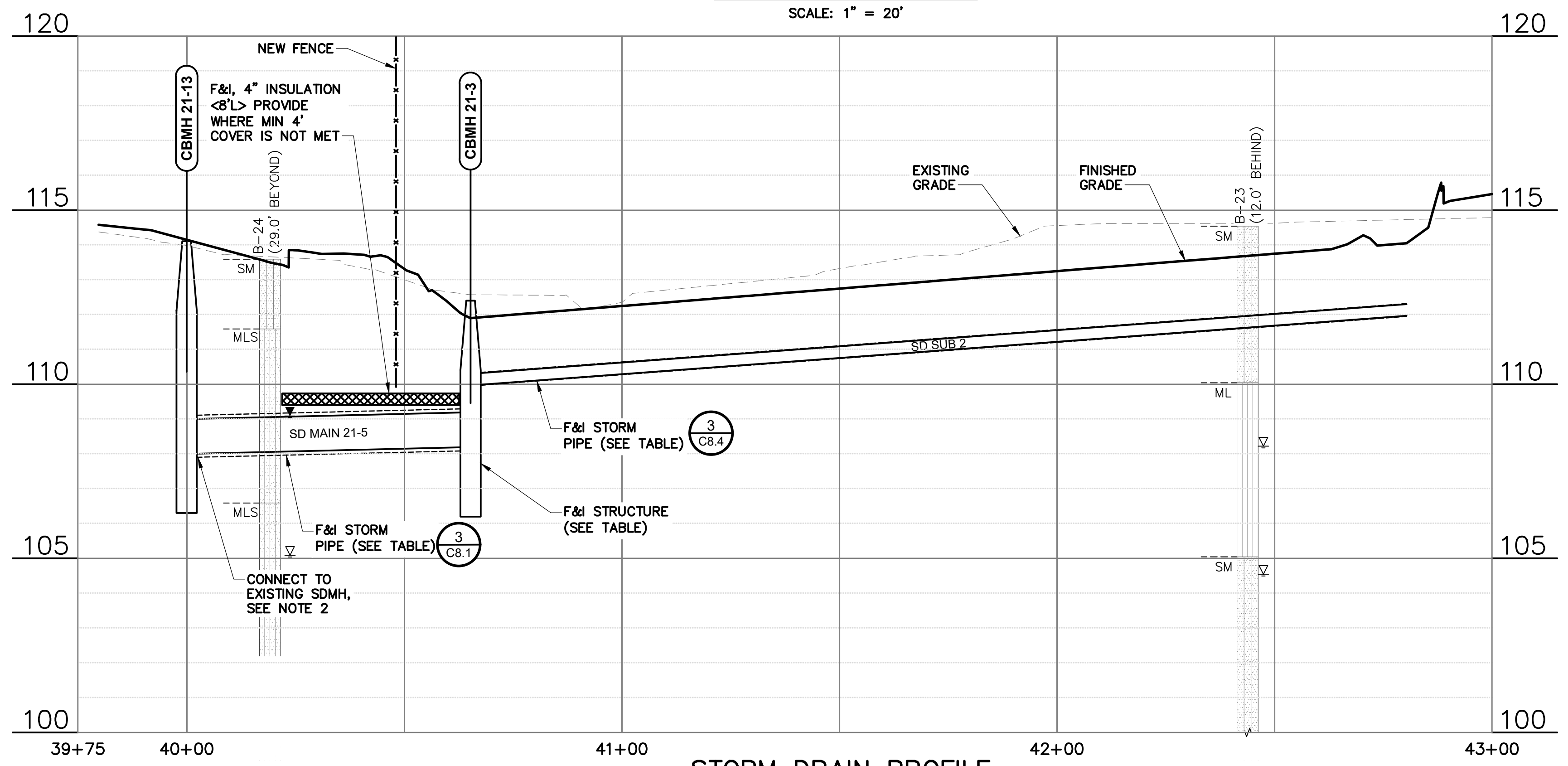
DWG C6.8

SHEET 64 of 288



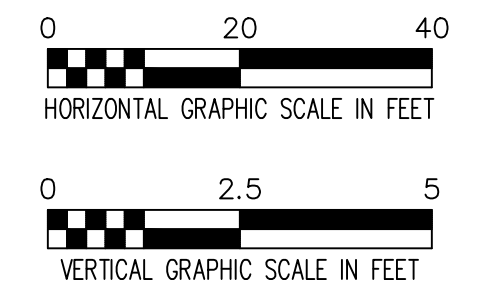
STORM DRAIN PLAN

SCALE: 1" = 20'



STORM DRAIN PROFILE

SCALE: 1" = 20' HORIZONTAL 1" = 2.5' VERTICAL



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4. MINIMUM VERTICAL SEPARATION BETWEEN WATER AND SANITARY SEWER OR STORM DRAIN IS 18". PROVIDE INSULATION UNLESS THE VERTICAL SEPARATION IS GREATER THAN 36".
5. COORDINATE WITH OWNER TO RELOCATE CLASSIFIED FILL STOCKPILE PRIOR TO STORM DRAIN AND SITE WORK IN THIS AREA.
6. FOR INFORMATION ON MANHOLE SDMH 91-3, SEE SHEET C6.7.

PIPE TABLE					
PIPE NAME	MATERIAL	SIZE	LENGTH	SLOPE	BEARING
SD MAIN 21-5	TYPE S CPEP	12"	65.2'	0.30%	N31° 05' 50.0"E

SUBDRAIN PIPE TABLE						
PIPE NAME	MATERIAL	SIZE	LENGTH	SLOPE	BEARING	END ELEV
SD SUB 2	PERFORATED SUBDRAIN	4"	215.1'	0.93%	S89° 49' 33.7"W	109.97'

MAJOR STRUCTURES							
STRUCTURE	STA	COORDINATES	MANHOLE TYPE	COVER TYPE	INVERTS AND CONNECTED PIPES	MANHOLE ELEVATIONS	DETAIL INFORMATION
CBMH 21-3	40+65.2	N=2607640.0 E=1662410.9	TYPE I CBMH	BEEHIVE	INV IN = 109.97' PIPE: SD SUB 2 INV OUT = 108.20' PIPE: SD MAIN 21-5	RIM ELEV: 112.40' RIM ADJUSTMENT: 0.50'	55-4 MASS 55-9 MASS

VERIFY SCALE
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

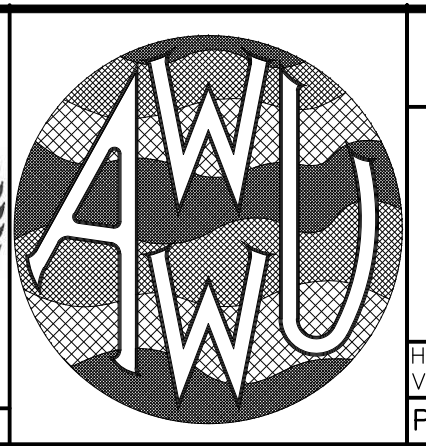
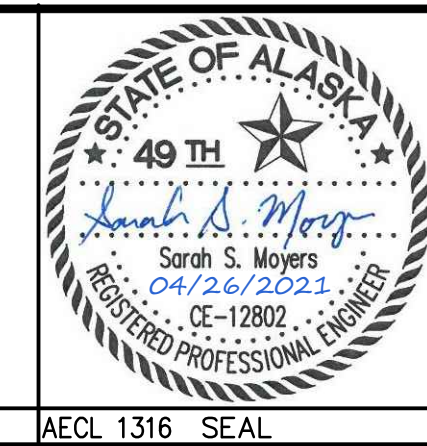
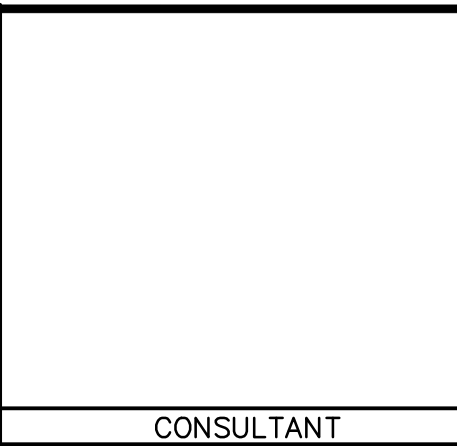
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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

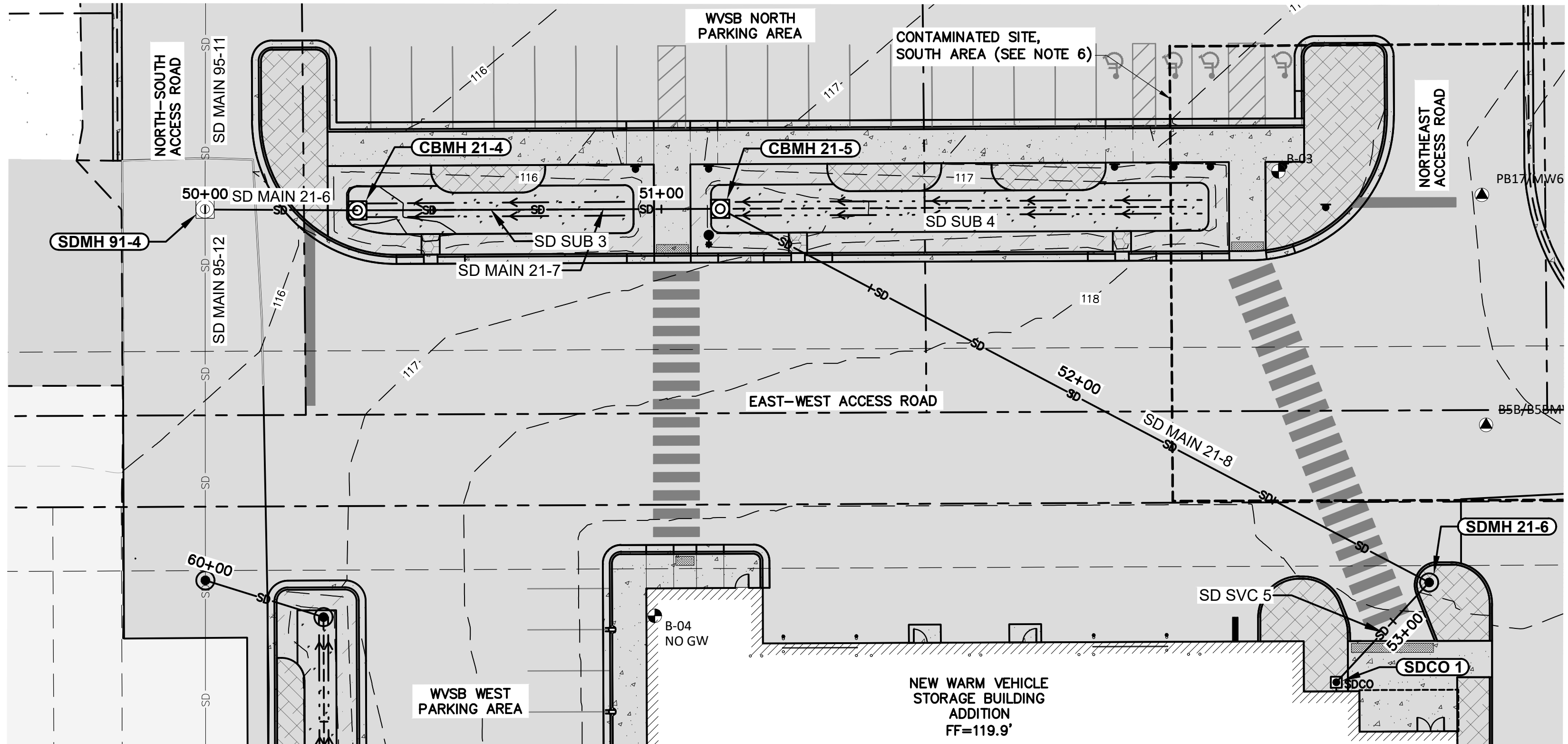
STORM DRAIN PLAN & PROFILE
STA 40+00 TO STA 43+00

DATE: APRIL 2021 GRID: SW 2431

PROJ. ID.: WW.H7775

DWG C6.9

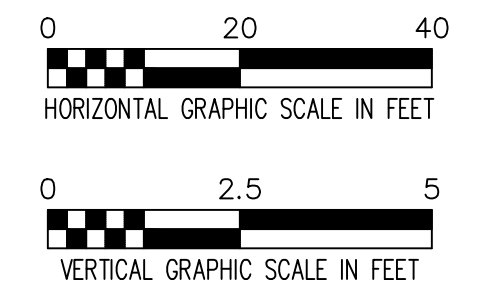
SHEET 65 of 288



STORM DRAIN PLAN
SCALE: 1" = 20'

NOTES

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- COORDINATE ALL EXCAVATION ACTIVITIES WITH THE OWNER AND COMPLY WITH SOIL AND GROUNDWATER MANAGEMENT PLAN REQUIREMENTS FOR WORK IN THIS AREA.

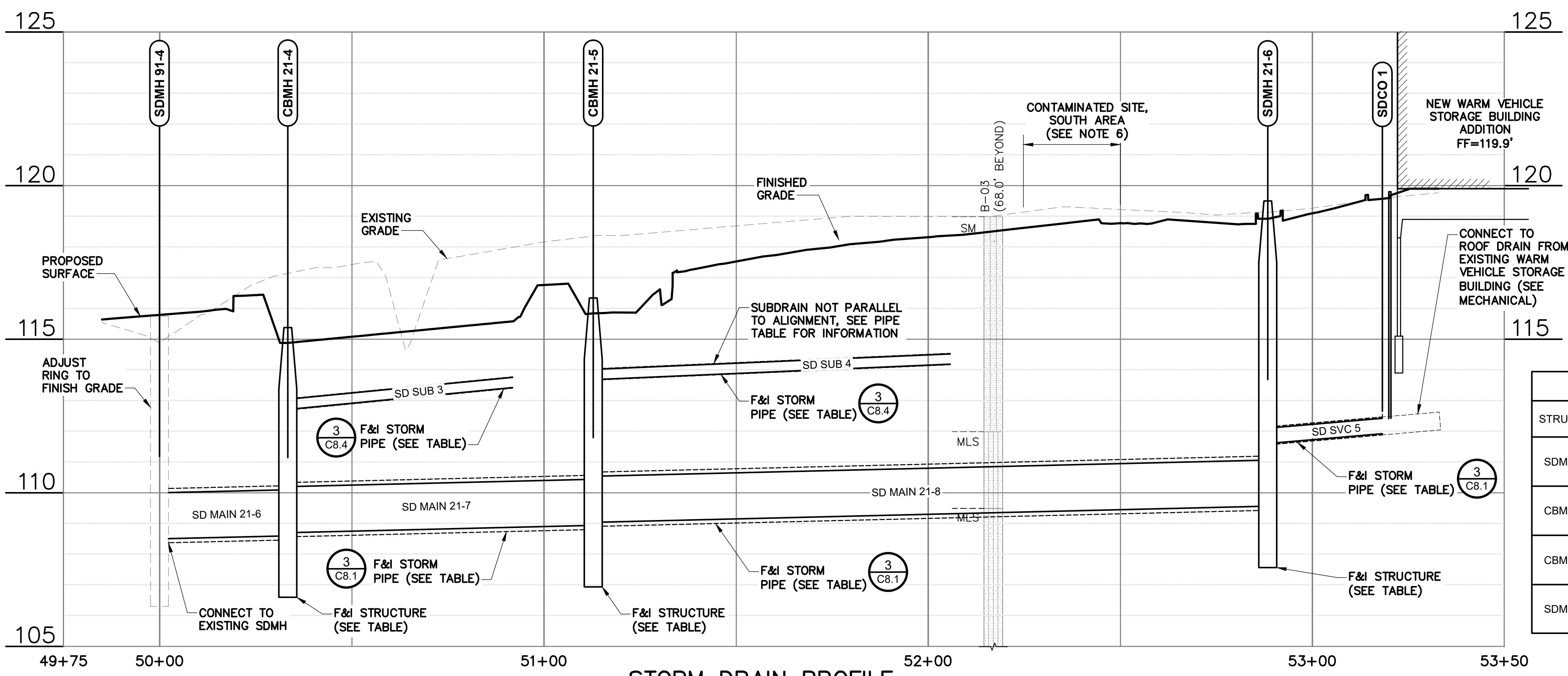


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MINOR STRUCTURES			
STRUCTURE	STATION	COORDINATES	DESCRIPTION
SDCO 1	53+18.3	N=2607312.6 E=1662624.4	STORM DRAIN CLEANOUT (SEE MECHANICAL)

PIPE TABLE					
PIPE NAME	MATERIAL	SIZE	LENGTH	SLOPE	BEARING
SD MAIN 21-6	TYPE S CPEP	18"	33.4'	0.30%	S89° 38' 55.2"E
SD MAIN 21-7	TYPE S CPEP	18"	79.5'	0.30%	N89° 48' 49.4"E
SD MAIN 21-8	TYPE S CPEP	18"	175.6'	0.30%	S62° 10' 13.7"E
SD MAIN 95-11	CPP	12"	167.9'	0.30%	S00° 12' 41.3"W
SD MAIN 95-12	CPP	12"	81.2'	0.32%	S00° 00' 10.2"W
SD SVC 5	6" PIPE TYPE S CPEP	6"	29.8'	1.08%	N42° 59' 57.3"E

SUBDRAIN PIPE TABLE						
PIPE NAME	MATERIAL	SIZE	LENGTH	SLOPE	BEARING	END ELEV
SD SUB 3	PERFORATED SUBDRAIN	4"	58.5'	1.22%	N89° 41' 52.2"E	113.42'
SD SUB 4	PERFORATED SUBDRAIN	4"	105.2'	0.48%	S89° 48' 49.0"W	113.68'



STORM DRAIN PROFILE
SCALE: 1" = 20' HORIZONTAL 1" = 2.5' VERTICAL

MAJOR STRUCTURES							
STRUCTURE	STA	COORDINATES	MANHOLE TYPE	COVER TYPE	INVERTS AND CONNECTED PIPES	MANHOLE ELEVATIONS	DETAIL INFORMATION
SDMH 91-4	50+00.0	N=2607416.3 E=1662376.6	EXISTING CBMH	INTAKE	INV IN = 108.40' PIPE: SD MAIN 95-12 INV IN = 108.50' PIPE: SD MAIN 21-6 INV OUT = 108.40' PIPE: SD MAIN 95-11	RIM ELEV: 115.75' RIM ADJUSTMENT: -0.04'	(55-4 MASS) (55-7 MASS) (55-18 MASS)
CBMH 21-4	50+33.4	N=2607416.1 E=1662410.0	TYPE I CBMH	BEEHIVE	INV IN = 108.70' PIPE: SD MAIN 21-7 INV IN = 112.71' PIPE: SD SUB 3 INV OUT = 108.60' PIPE: SD MAIN 21-6	RIM ELEV: 115.38' RIM ADJUSTMENT: 0.50'	(55-4 MASS) (55-9 MASS)
CBMH 21-5	51+12.9	N=2607416.4 E=1662489.5	TYPE I CBMH	BEEHIVE	INV IN = 109.04' PIPE: SD MAIN 21-8 INV IN = 113.68' PIPE: SD SUB 4 INV OUT = 108.94' PIPE: SD MAIN 21-7	RIM ELEV: 116.34' RIM ADJUSTMENT: 0.50'	(55-4 MASS) (55-9 MASS)
SDMH 21-6	52+88.4	N=2607334.4 E=1662644.7	TYPE I SDMH	SOLID	INV IN = 111.60' PIPE: SD SVC 5 INV OUT = 109.56' PIPE: SD MAIN 21-8	RIM ELEV: 119.50' RIM ADJUSTMENT: -0.04'	(55-4 MASS) (55-7 MASS)

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

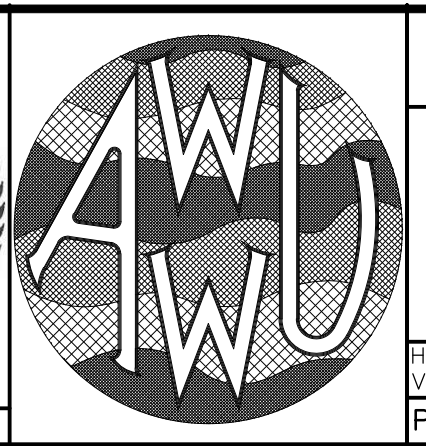
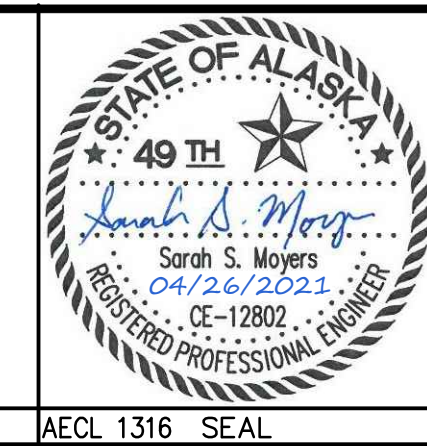
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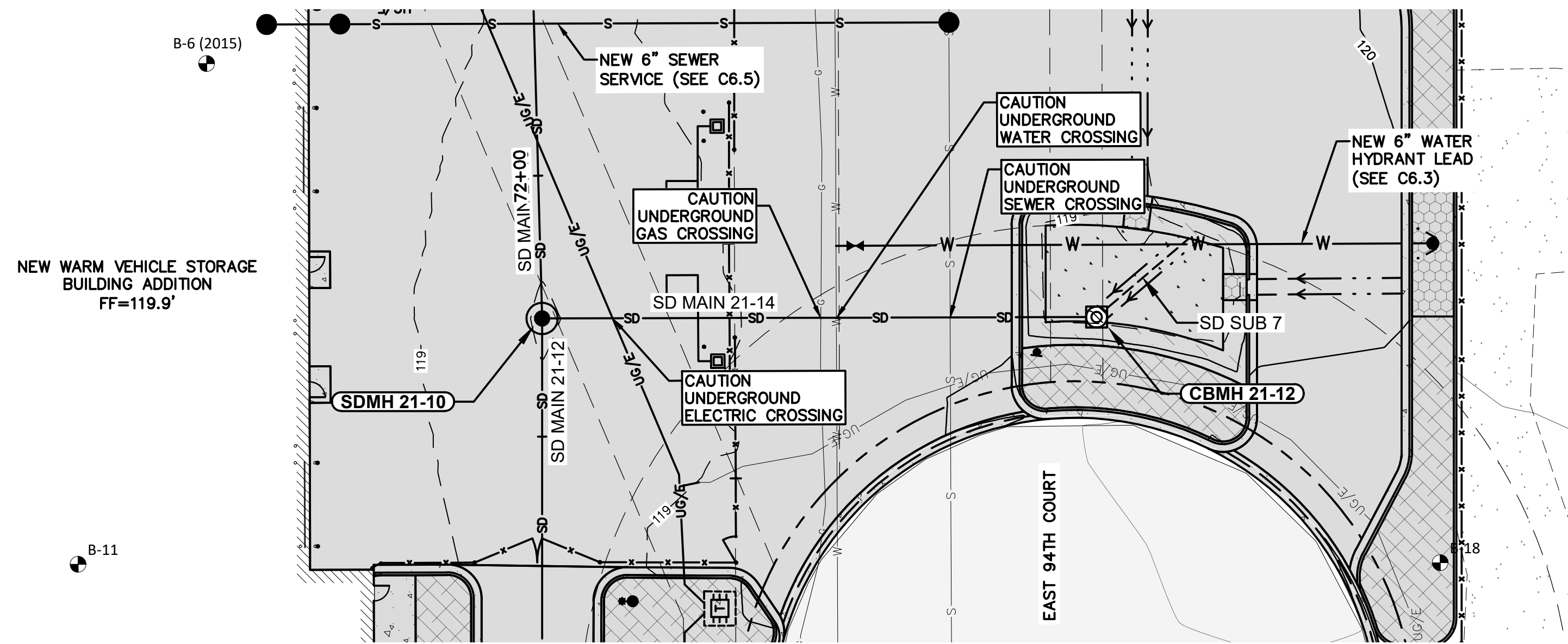
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WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

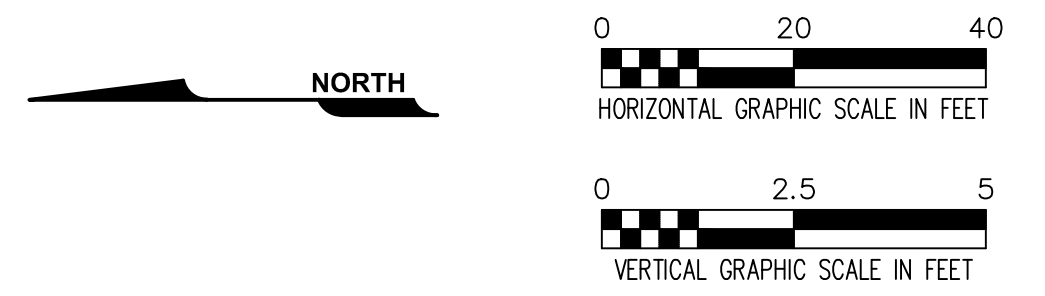
STORM DRAIN PLAN & PROFILE
STA 50+00 TO STA 53+50

DATE: APRIL 2021 GRID: SW 2431
PROJ. ID.: WW.H7775

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SHEET 66 of 288



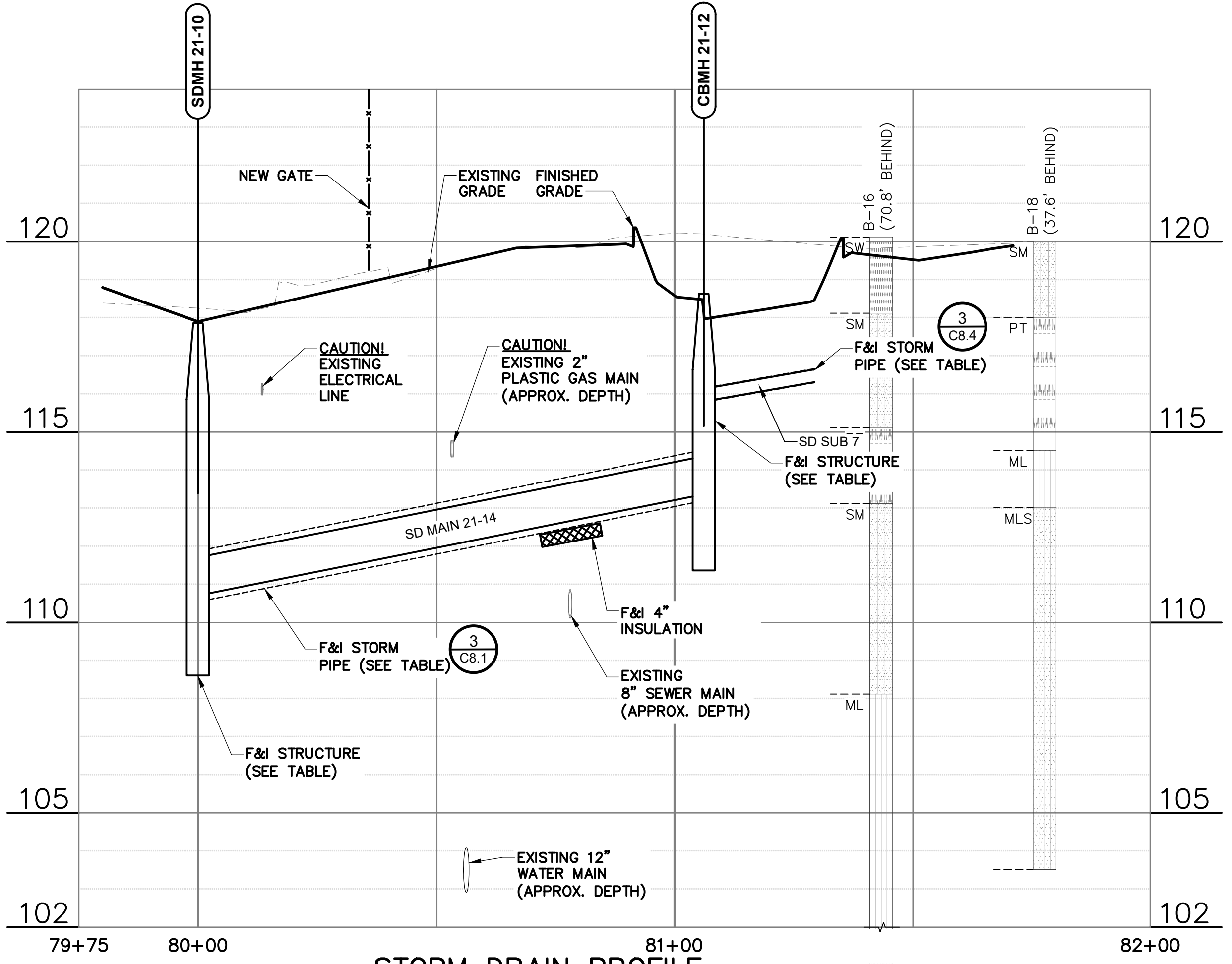
STORM DRAIN PLAN
SCALE: 1" = 20'



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STORM DRAIN PROFILE
SCALE: 1" = 20' HORIZONTAL 1" = 2.5' VERTICAL

PIPE TABLE					
PIPE NAME	MATERIAL	SIZE	LENGTH	SLOPE	BEARING
SD MAIN 21-14	TYPE S CPEP	12"	106.2'	2.50%	S00° 08' 22.5"E

SUBDRAIN PIPE TABLE						
PIPE NAME	MATERIAL	SIZE	LENGTH	SLOPE	BEARING	END ELEV
SD SUB 7	PERFORATED SUBDRAIN	4"	23.2'	2.20%	N40° 25' 36.8"W	115.80'

MAJOR STRUCTURES							
STRUCTURE	STA	COORDINATES	MANHOLE TYPE	COVER TYPE	INVERTS AND CONNECTED PIPES	MANHOLE ELEVATIONS	DETAIL INFORMATION
CBMH 21-12	81+06.2	N=2606994.5 E=1662547.7	TYPE I CBMH	BEEHIVE	INV IN = 115.80' PIPE: SD SUB 7 INV OUT = 113.37' PIPE: SD MAIN 21-14	RIM ELEV: 118.63' RIM ADJUSTMENT: 0.50'	55-4 MASS 55-9 MASS

REV	DATE	DESCRIPTION	BY

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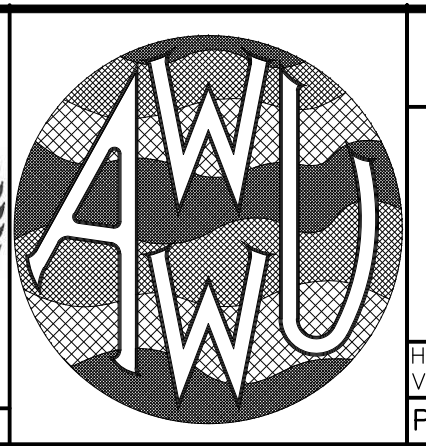
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

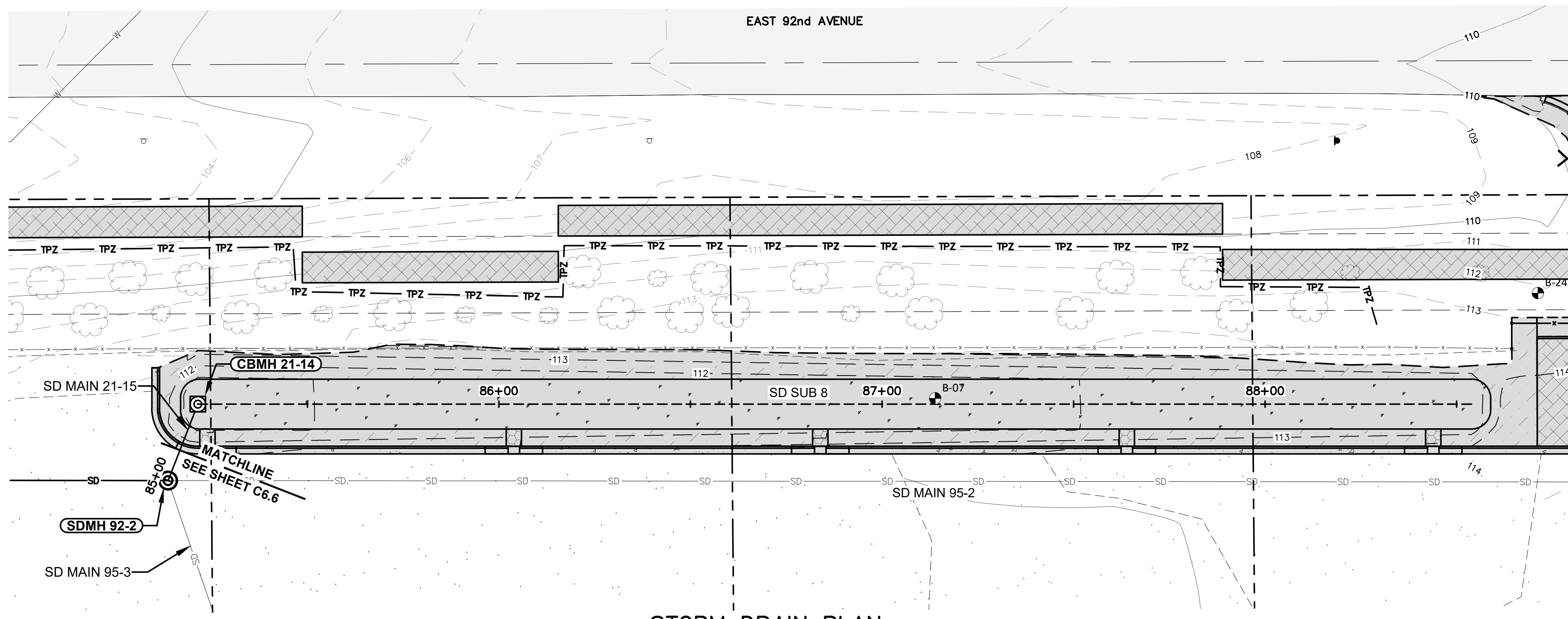
STORM DRAIN PLAN & PROFILE
STA 80+00 TO STA 81+06

DATE: APRIL 2021 GRID: SW 2431

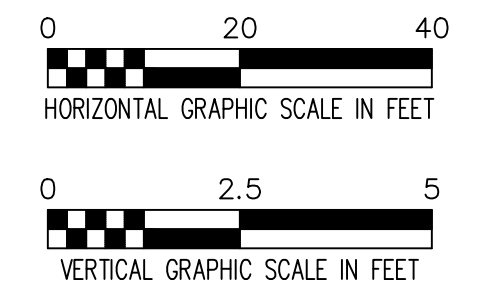
PROJ. ID.: WW.H7775

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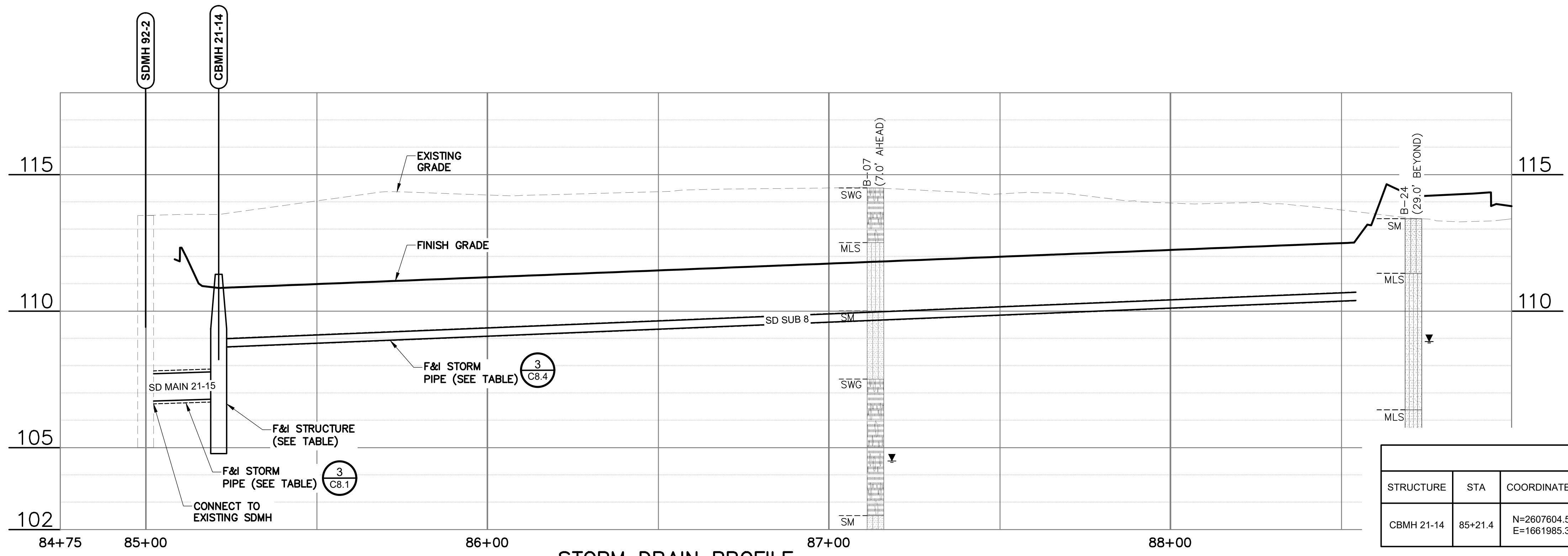
STORM DRAIN PLAN
SCALE: 1" = 20'



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- PIPE LENGTHS ARE FROM CENTER OF MANHOLE OR FITTING TO CENTER OF MANHOLE OR FITTING. INVERTS MEASURED AT CENTER OF MANHOLE.
- RIM ADJUSTMENT INDICATES DEPTH ABOVE (+) OR BELOW (-) FINISHED GRADE SURFACE. RIM ELEVATION ACCOUNTS FOR THE RIM ADJUSTMENT.
- MINIMUM PIPE SLOPE FOR STORM DRAIN IS 0.3%.
- MINIMUM VERTICAL SEPARATION BETWEEN WATER AND SANITARY SEWER OR STORM DRAIN IS 18". PROVIDE INSULATION UNLESS THE VERTICAL SEPARATION IS GREATER THAN 36".
- COORDINATE WITH OWNER TO RELOCATE CLASSIFIED FILL STOCKPILE PRIOR TO STORM DRAIN AND SITE WORK IN THIS AREA.
- FOR INFORMATION ON MANHOLE SDMH 92-2, SD MAIN 95-2, AND SD MAIN 95-3 SEE SHEET C6.7.



STORM DRAIN PROFILE
SCALE: 1" = 20' HORIZONTAL 1" = 2.5' VERTICAL

PIPE TABLE					
PIPE NAME	MATERIAL	SIZE	LENGTH	SLOPE	BEARING
SD MAIN 21-15	TYPE S CPEP	12"	21.4'	0.40%	N21° 17' 20.6"E

SUBDRAIN PIPE TABLE						
PIPE NAME	MATERIAL	SIZE	LENGTH	SLOPE	BEARING	END ELEV
SD SUB 8	PERFORATED SUBDRAIN	4"	333.0'	0.51%	N89° 59' 58.2"E	110.39'

MAJOR STRUCTURES							
STRUCTURE	STA	COORDINATES	MANHOLE TYPE	COVER TYPE	INVERTS AND CONNECTED PIPES	MANHOLE ELEVATIONS	DETAIL INFORMATION
CBMH 21-14	85+21.4	N=2607604.5 E=1661985.3	TYPE 1 CBMH	BEEHIVE	INV IN = 108.68' PIPE: SD SUB 8 INV OUT = 106.79' PIPE: SD MAIN 21-15	RIM ELEV: 111.35' RIM ADJUSTMENT: 0.50'	55-4 MASS 55-9 MASS

REV	DATE	DESCRIPTION	BY

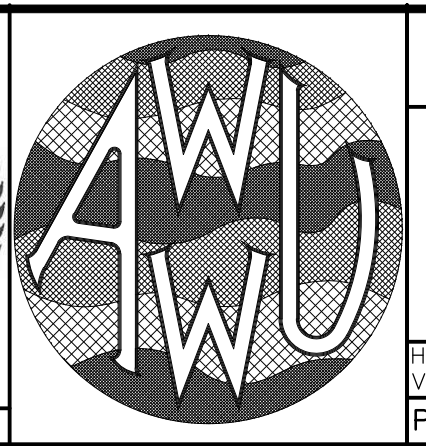
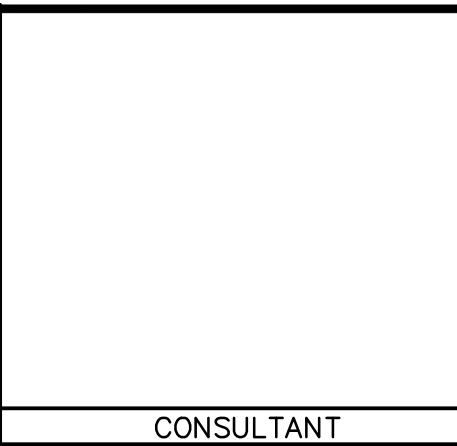
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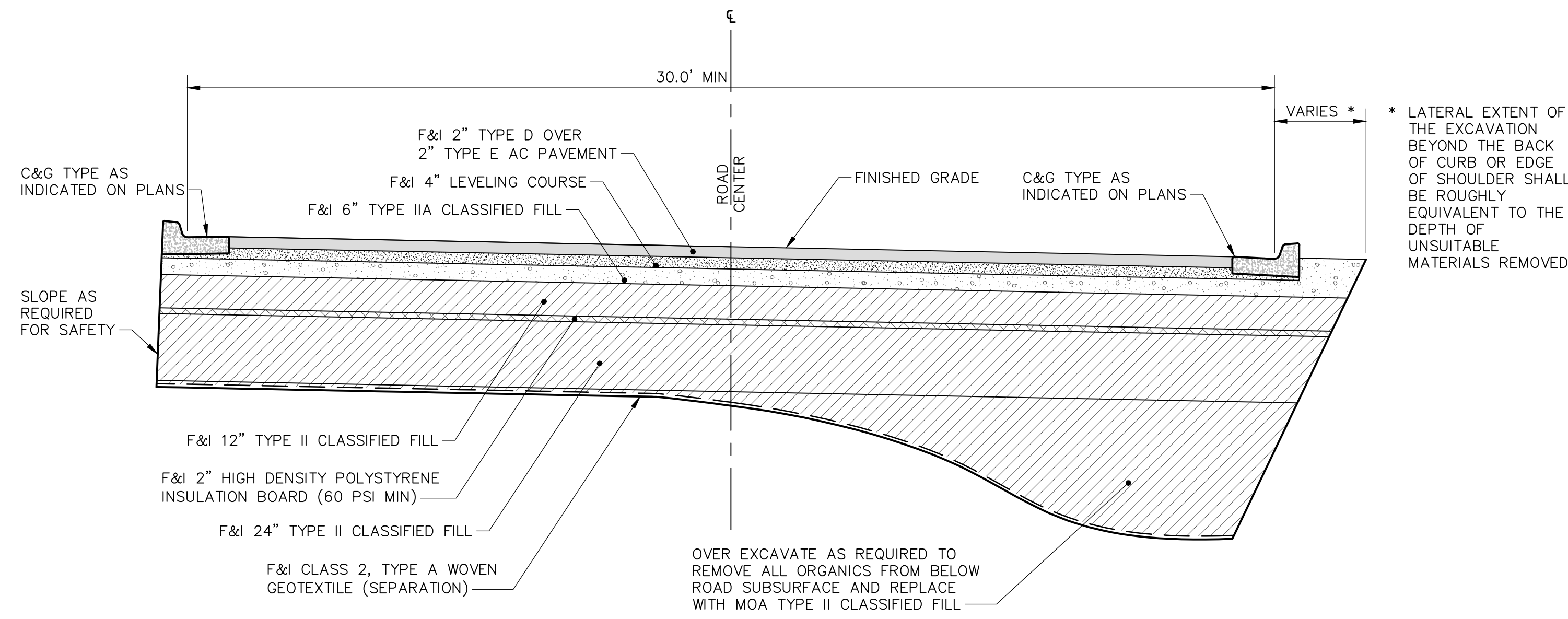
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WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

STORM DRAIN PLAN & PROFILE
STA 85+00 TO STA 88+54

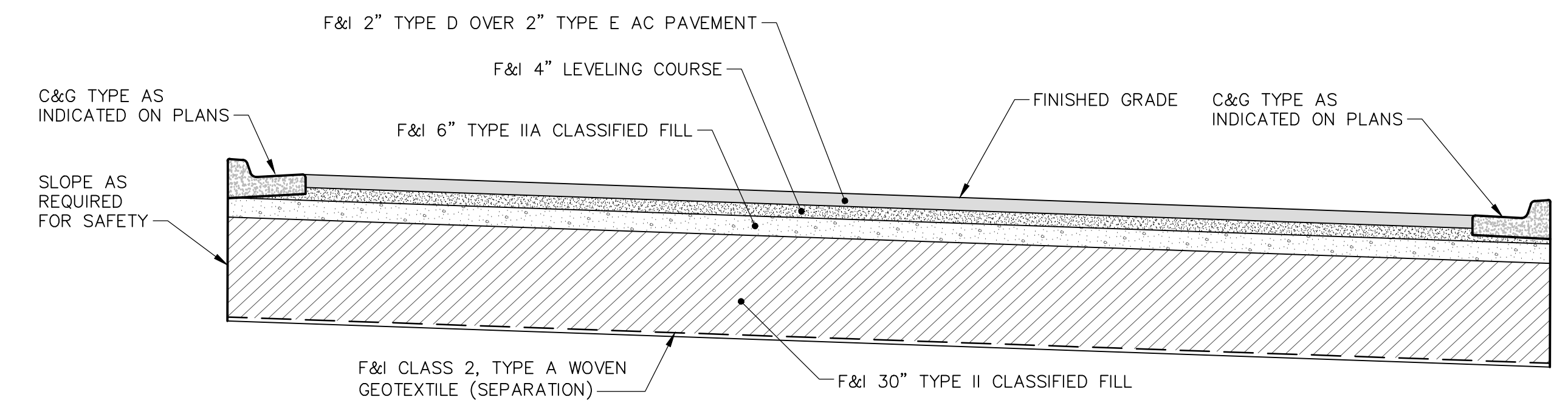
DATE: APRIL 2021 GRID: SW 2431
PROJ. ID.: WW.H7775

DWG
C6.14
SHEET 70 of 288

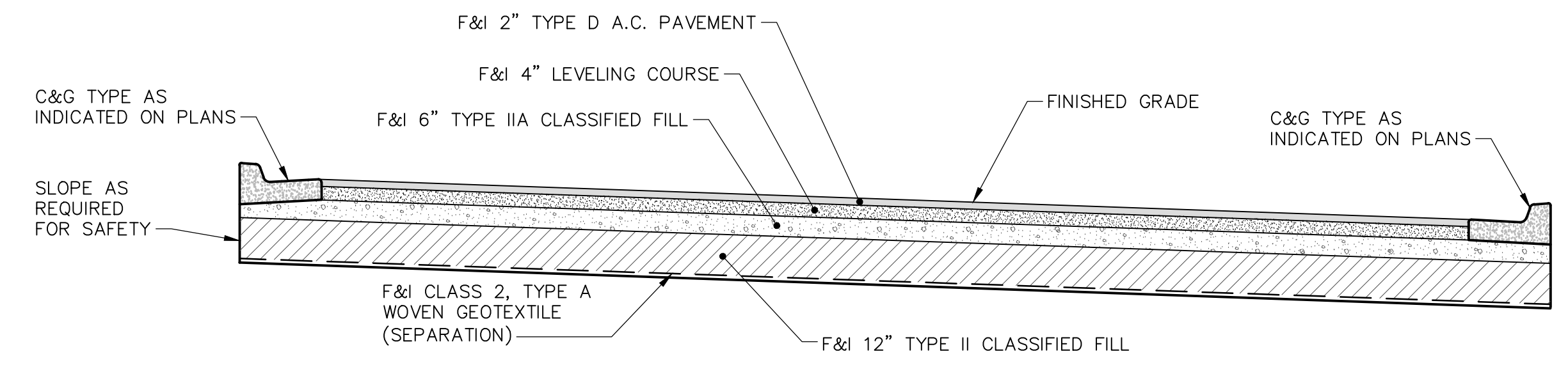


* LATERAL EXTENT OF THE EXCAVATION BEYOND THE BACK OF CURB OR EDGE OF SHOULDER SHALL BE ROUGHLY EQUIVALENT TO THE DEPTH OF UNSUITABLE MATERIALS REMOVED.

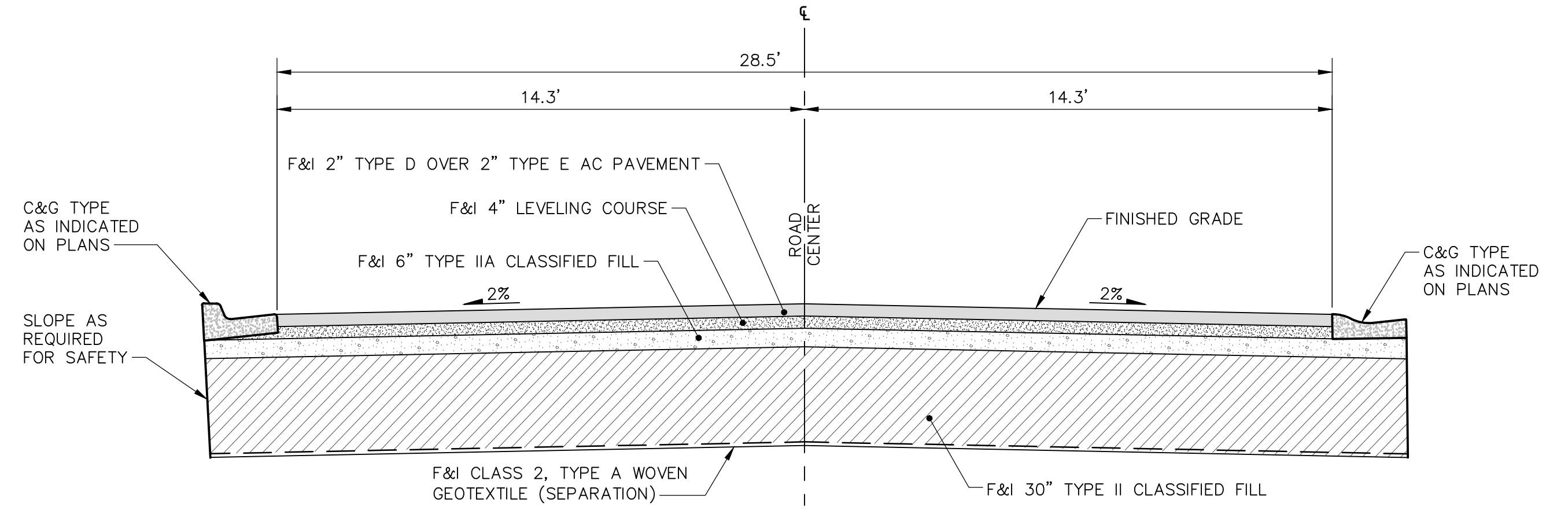
1 RIGHT OF WAY AC PAVEMENT SECTION
C7.1 SCALE: N.T.S.



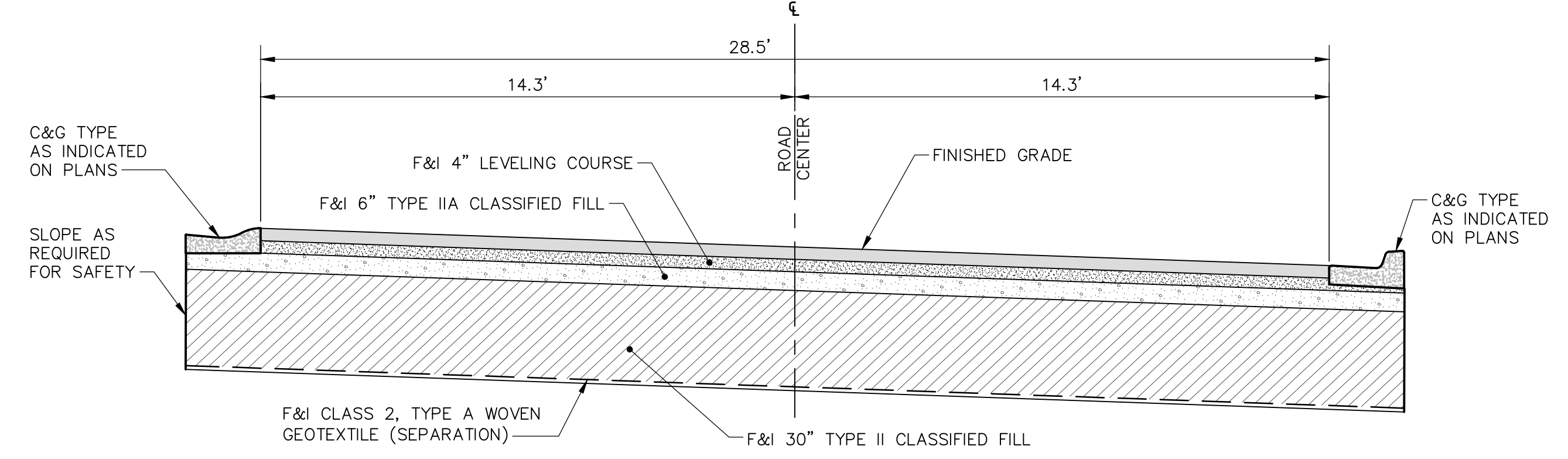
2 HEAVY DUTY AC PAVEMENT SECTION
C7.1 SCALE: N.T.S.



3 LIGHT DUTY AC PAVEMENT SECTION
C7.1 SCALE: N.T.S.



4 NORTHEAST ACCESS ROAD TYPICAL SECTION
C7.1 SCALE: N.T.S.



5 NORTH-SOUTH ACCESS ROAD TYPICAL SECTION
C7.1 SCALE: N.T.S.

REV	DATE	DESCRIPTION	BY

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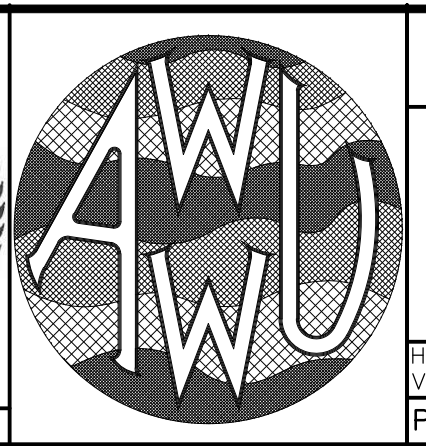
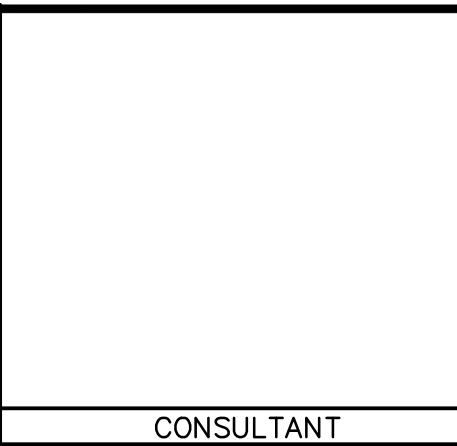
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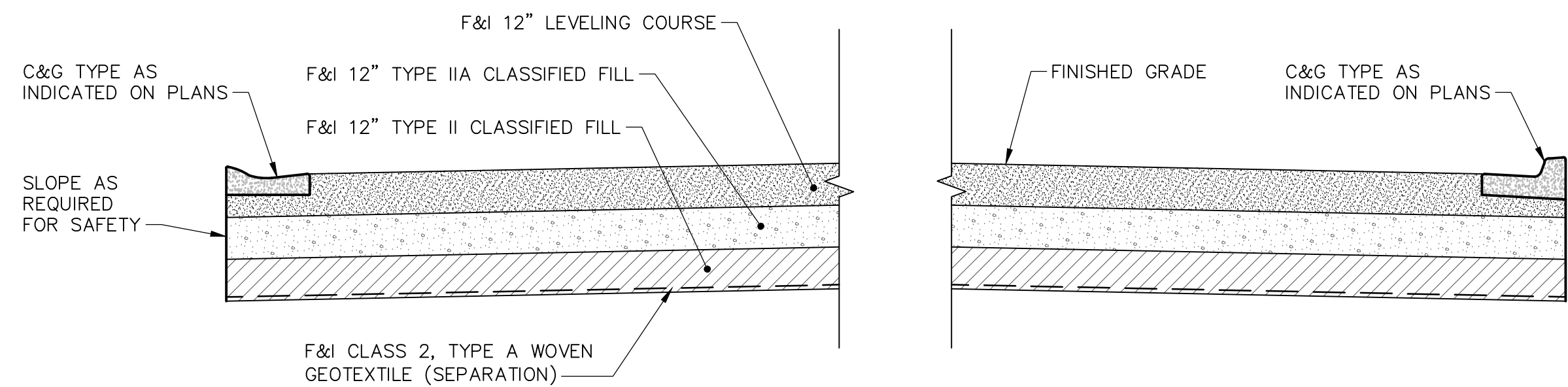
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

TYPICAL FILL SECTION DETAILS

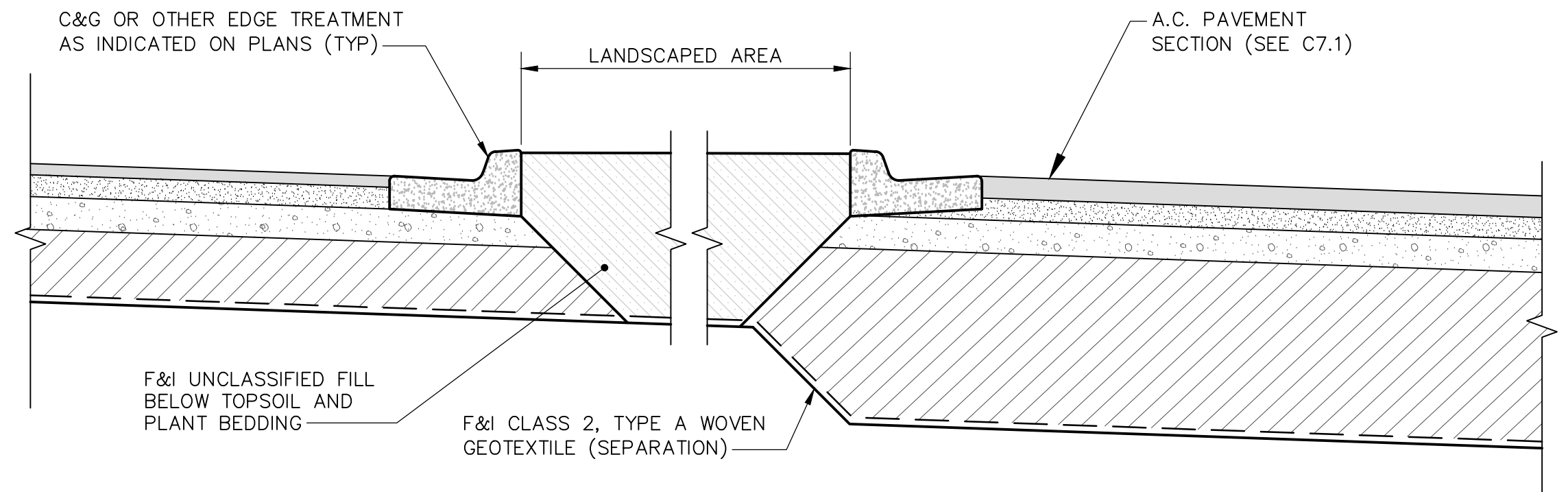
DWG C7.1

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VERT SCALE: N/A
PROJ. ID.: WW.H7775

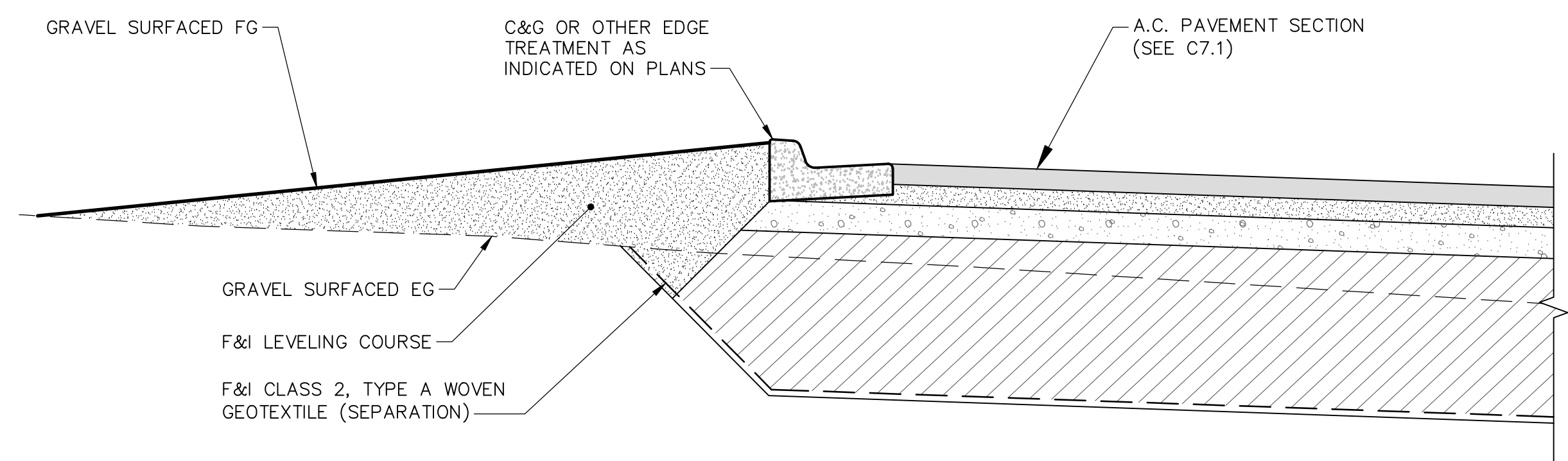
SHEET 71 of 288



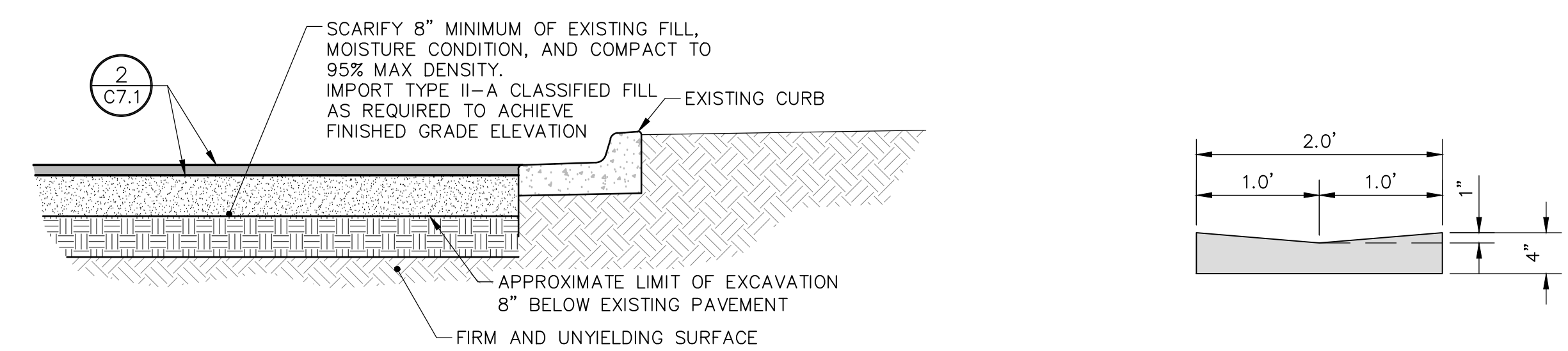
1 STOCKPILE GRAVEL PAD SECTION
SCALE: N.T.S.



4 LANDSCAPE ISLAND SECTION
SCALE: N.T.S.

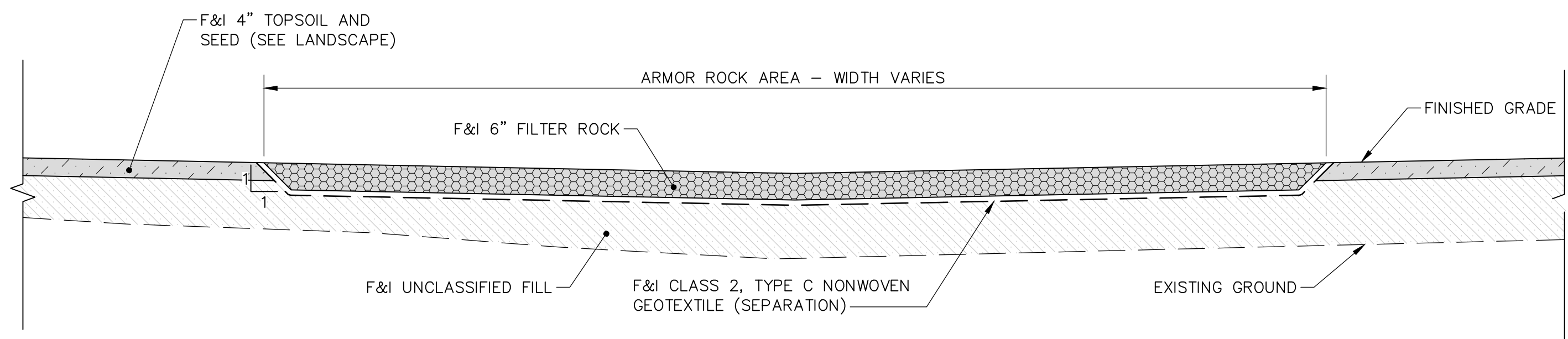


2 ADJUST GRADE GRAVEL PAD / DRIVE SECTION
SCALE: N.T.S.

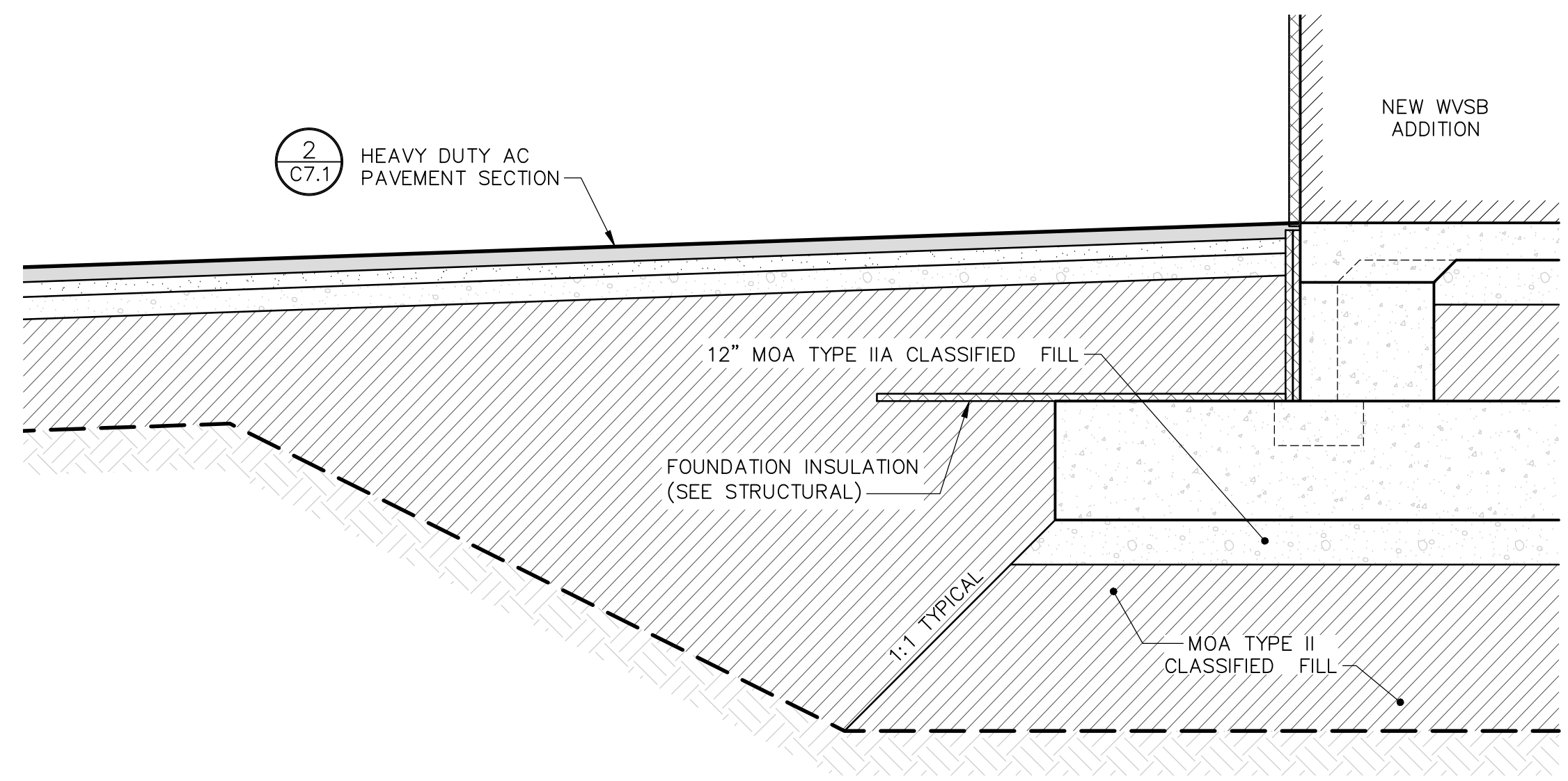


5 REMOVE & REPLACE AC PAVEMENT DETAIL
SCALE: N.T.S.

6 AC PAVEMENT SWALE DETAIL
SCALE: N.T.S.



3 SNOW STORAGE ARMOR ROCK SECTION
SCALE: N.T.S.



7 AC PAVEMENT AT BUILDING
SCALE: N.T.S.

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Sarah S. Moyers
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CE-12802
REGISTERED PROFESSIONAL ENGINEER
AECL 1316 SEAL

AWWU

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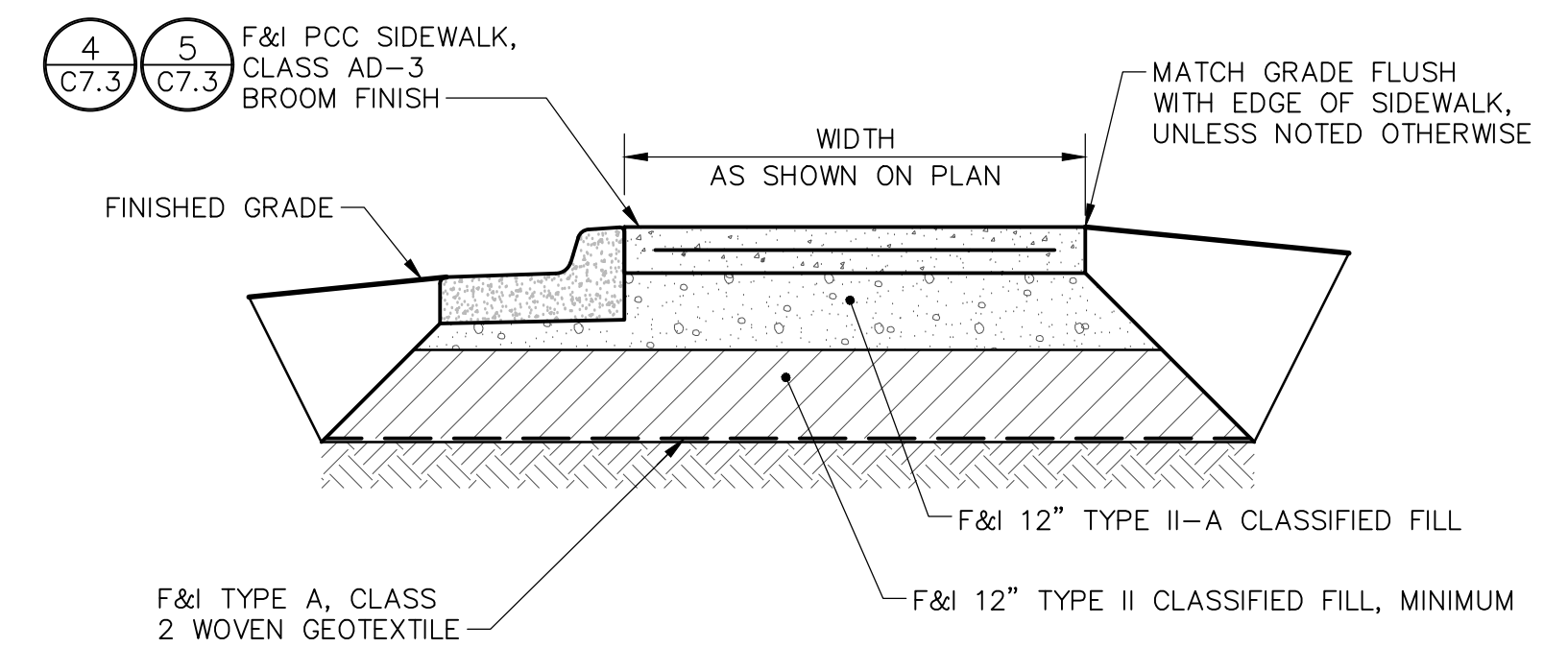
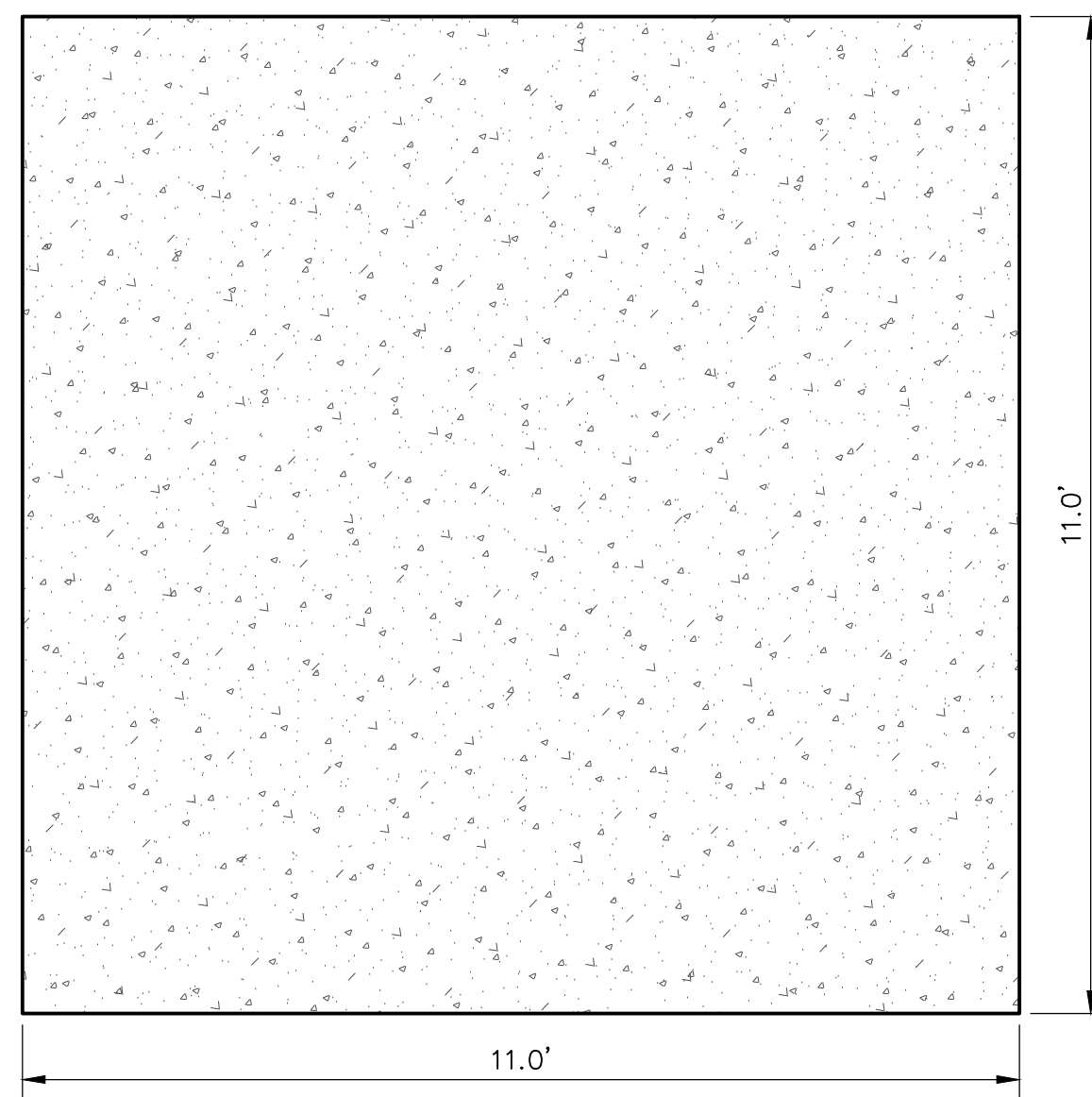
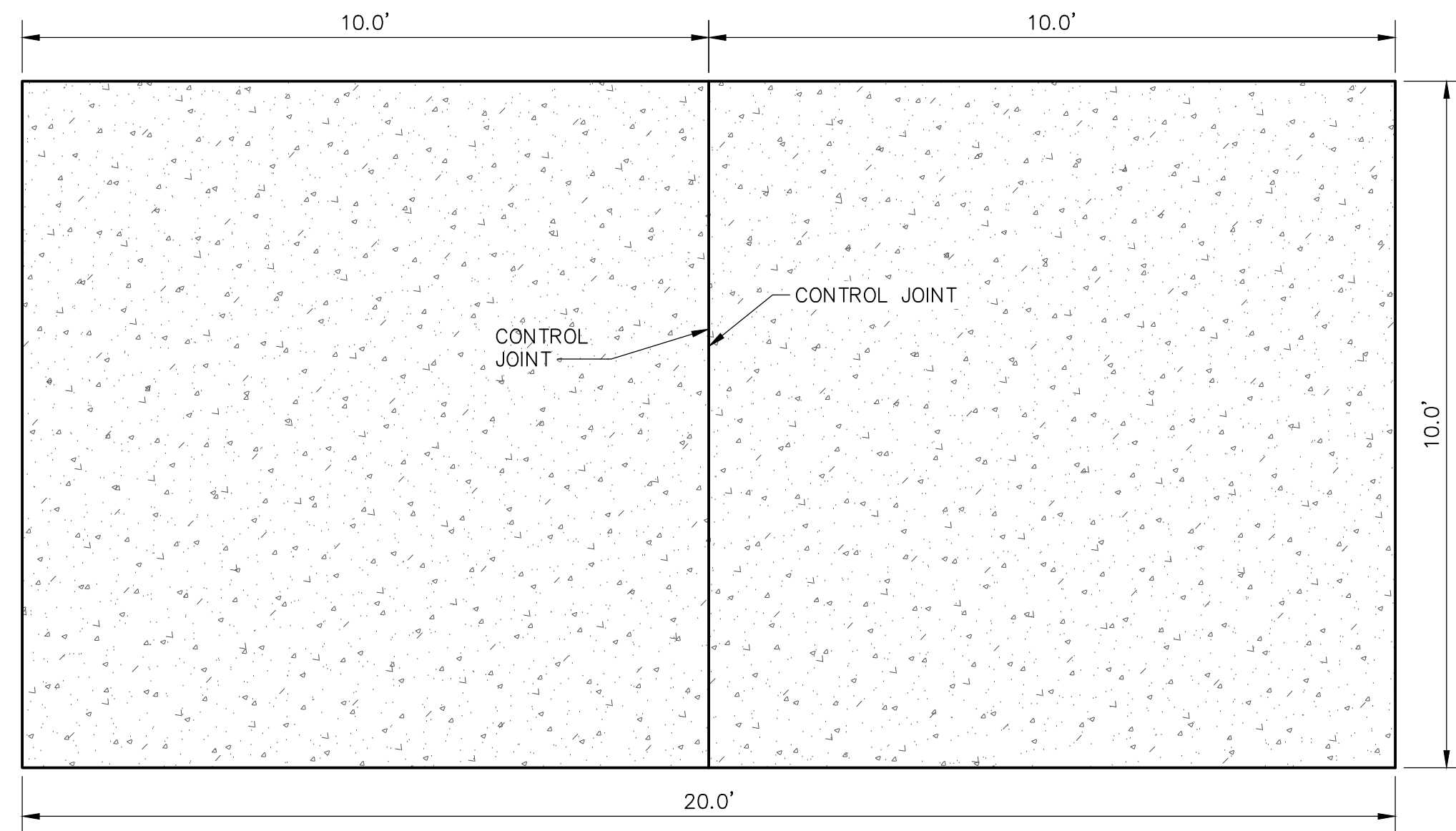
PAVEMENT SECTIONS & DETAILS

DWG **C7.2**

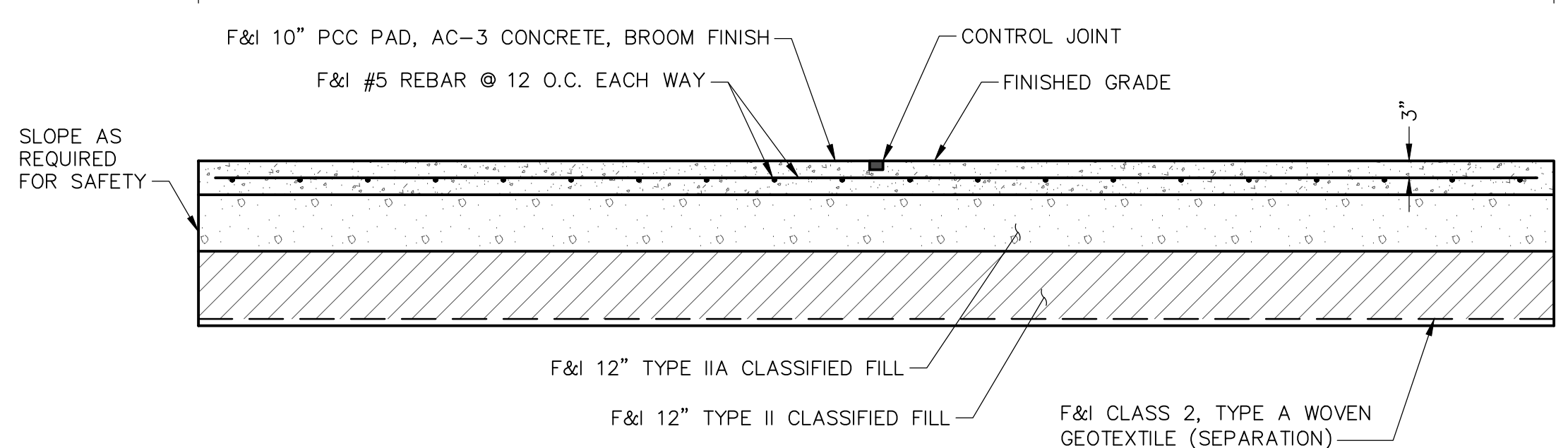
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VERT SCALE: N/A
PROJ. ID.: WW.H7775

SHEET 72 of 288

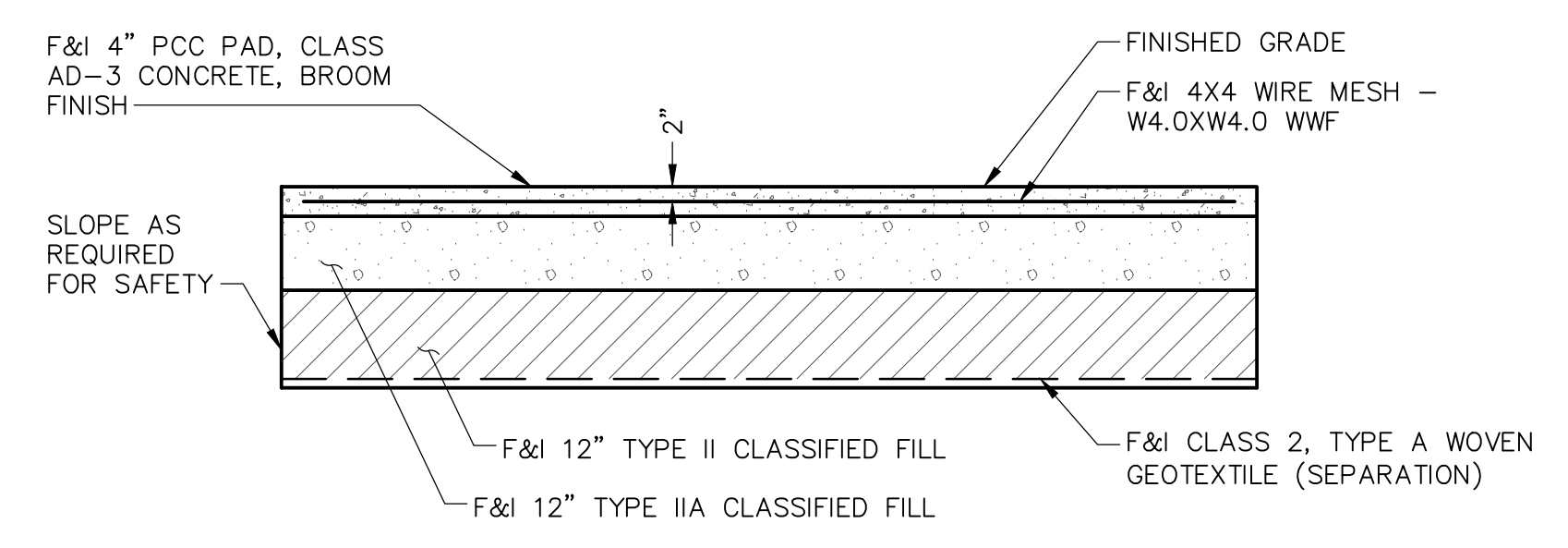
NOTE:
ATTACH BICYCLE RACK PER LANDSCAPE AND MANUFACTURER'S WRITTEN INSTRUCTIONS (NOT SHOWN).



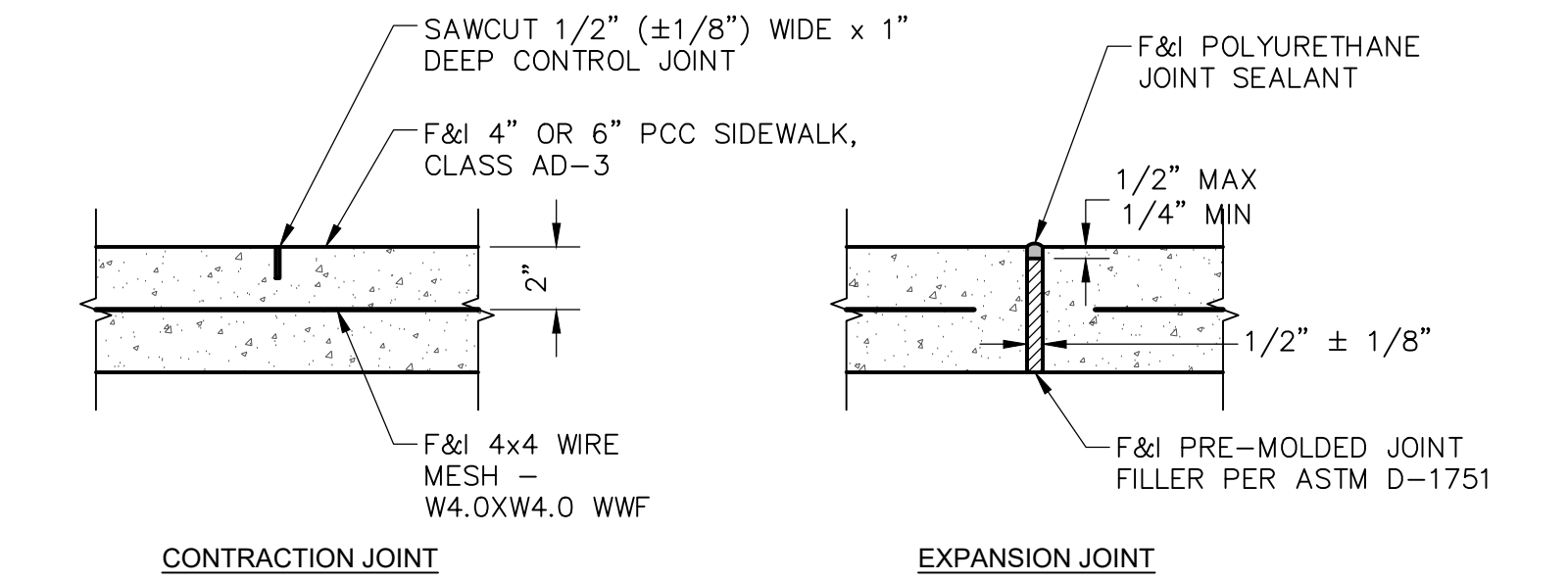
3 PCC SIDEWALK SECTION
SCALE: N.T.S.



1 PCC DUMPSTER CONCRETE PAD DETAIL
SCALE: NTS

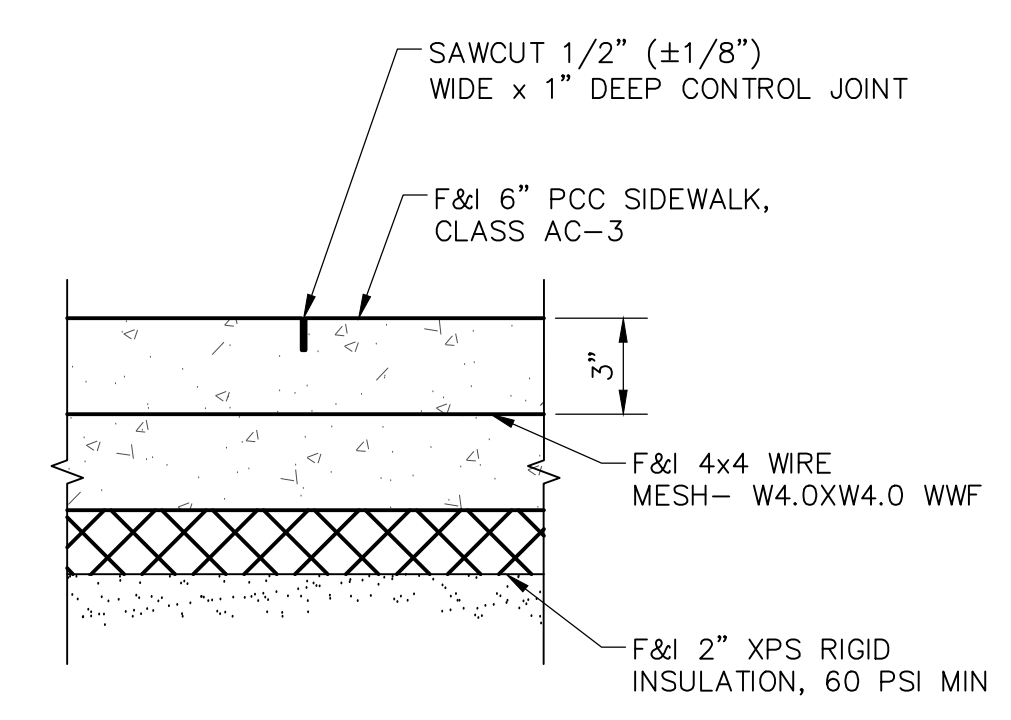


2 PCC BICYCLE PARKING CONCRETE PAD DETAIL
SCALE: NTS



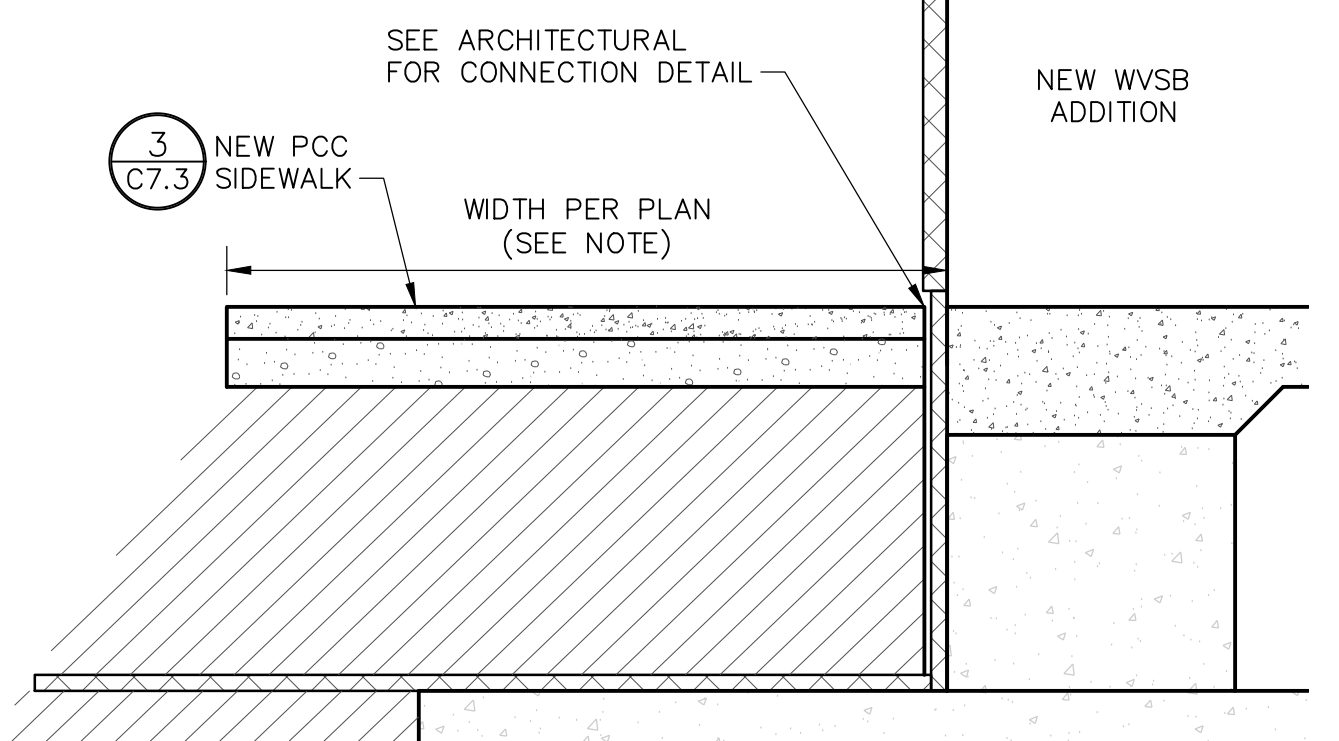
4 PCC SIDEWALK AND JOINT DETAIL
SCALE: N.T.S.

NOTE:
SNOWMELT TUBING NOT SHOWN (SEE MECHANICAL). PROVIDE SLEEVES AT EXPANSION JOINTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

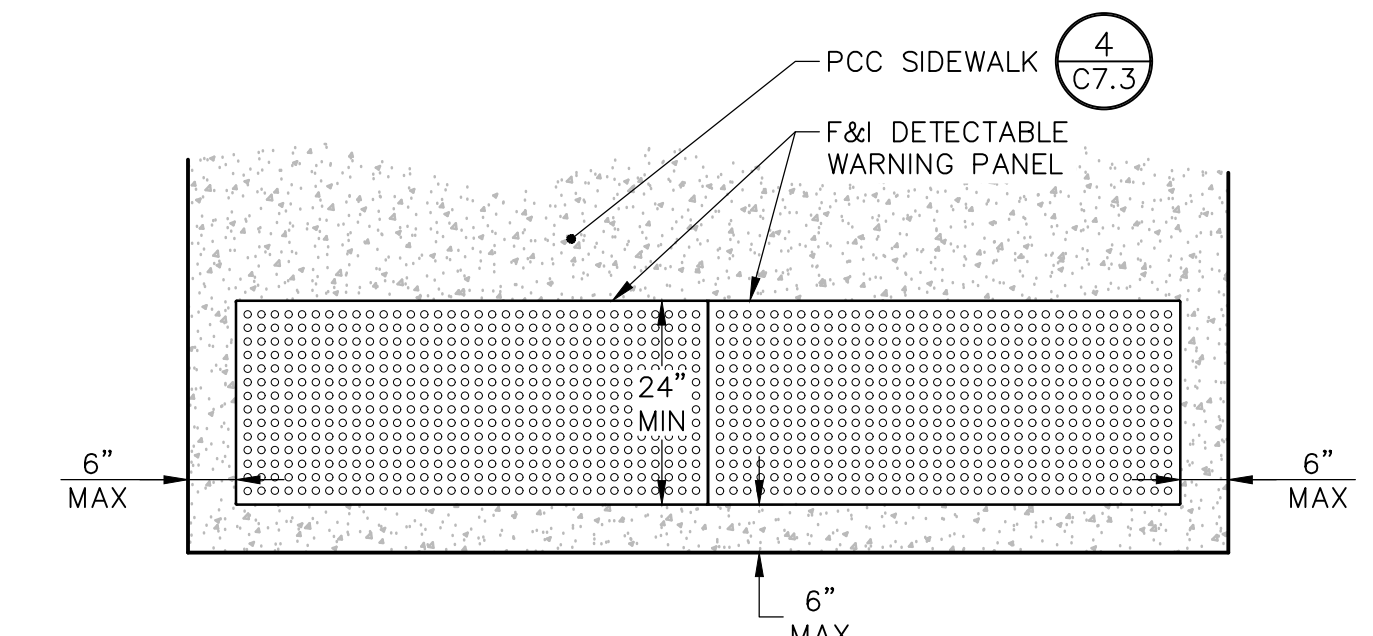


5 PCC HEATED SIDEWALK SECTION
SCALE: N.T.S.

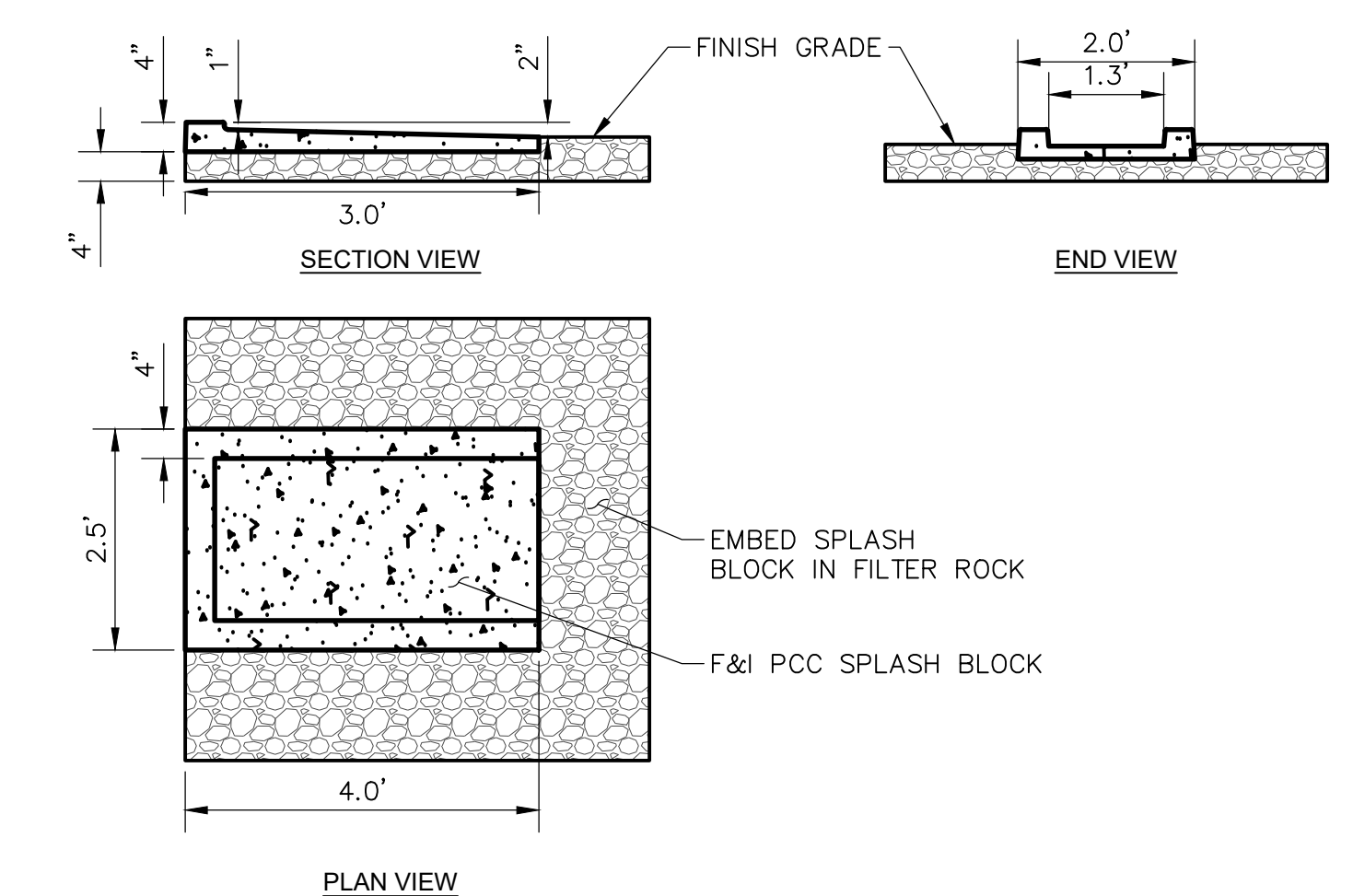
NOTE:
SIDEWALK WIDTH MEASURED FROM CONCRETE FOUNDATION INCLUDES VERTICAL FOUNDATION INSULATION. SEE ARCHITECTURAL DETAIL AT BUILDING FACE.



6 PCC SIDEWALK AT BUILDING DETAIL
SCALE: N.T.S.



7 DETECTABLE WARNING PANEL DETAIL
SCALE: N.T.S.



8 PCC SPLASH BLOCK DETAIL
SCALE: N.T.S.

REV	DATE	DESCRIPTION	BY

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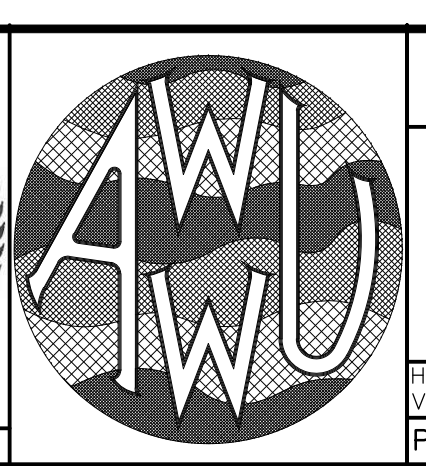
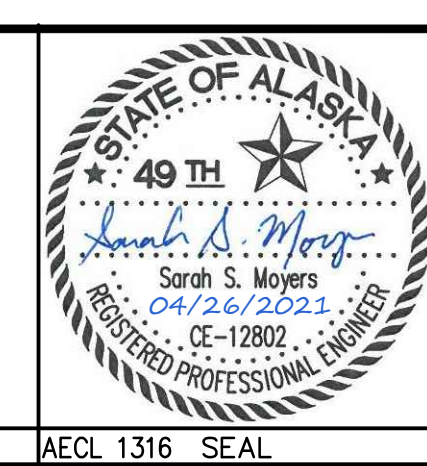
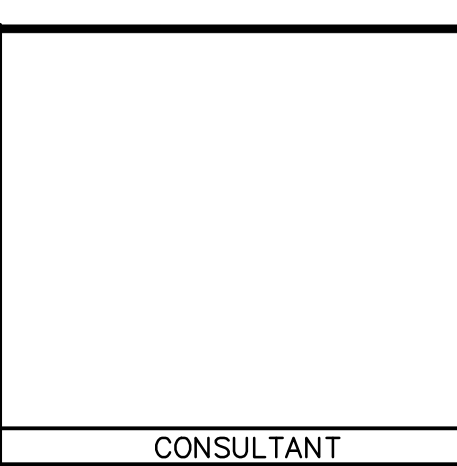
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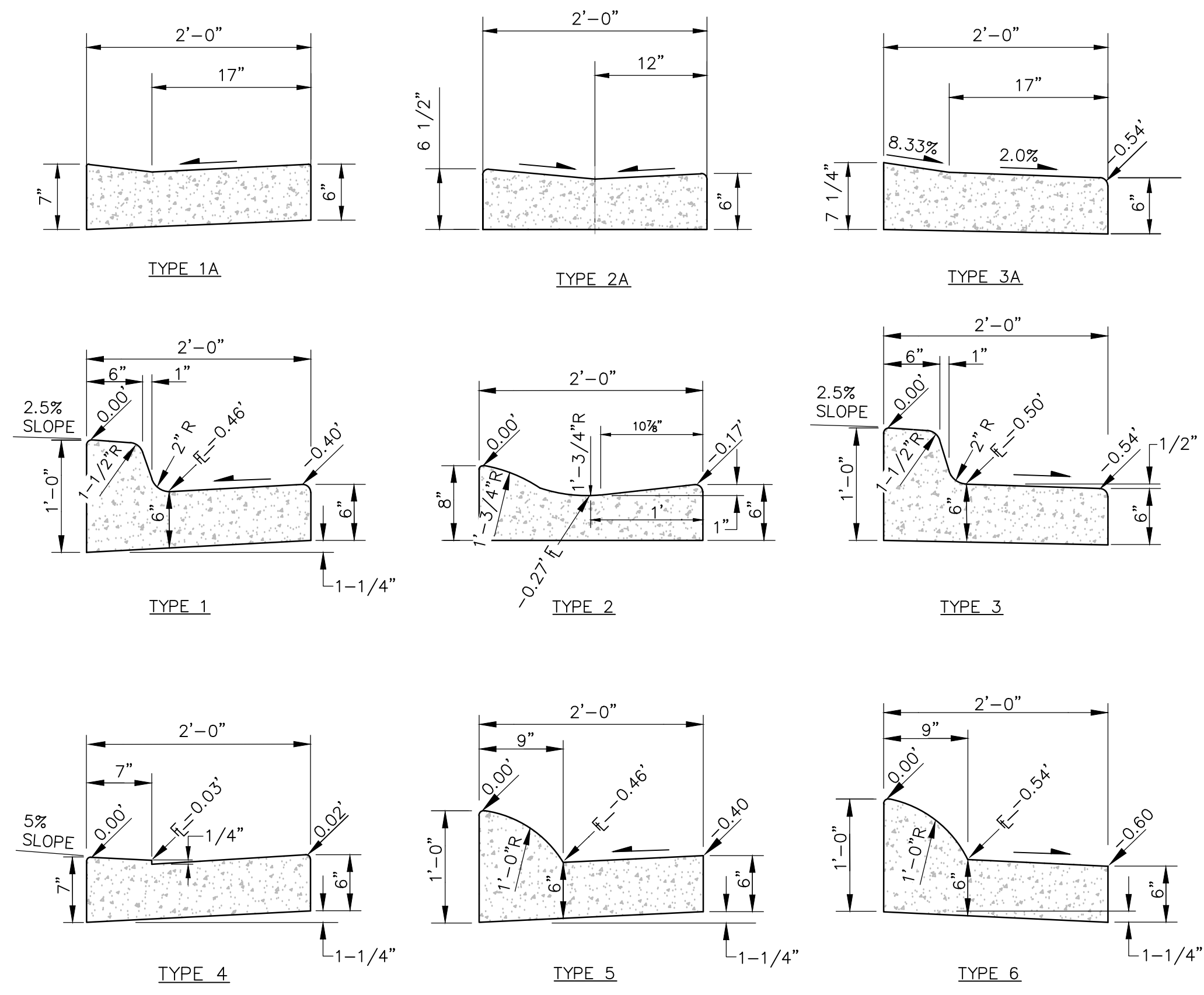
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

CONCRETE PAD & SIDEWALK DETAILS

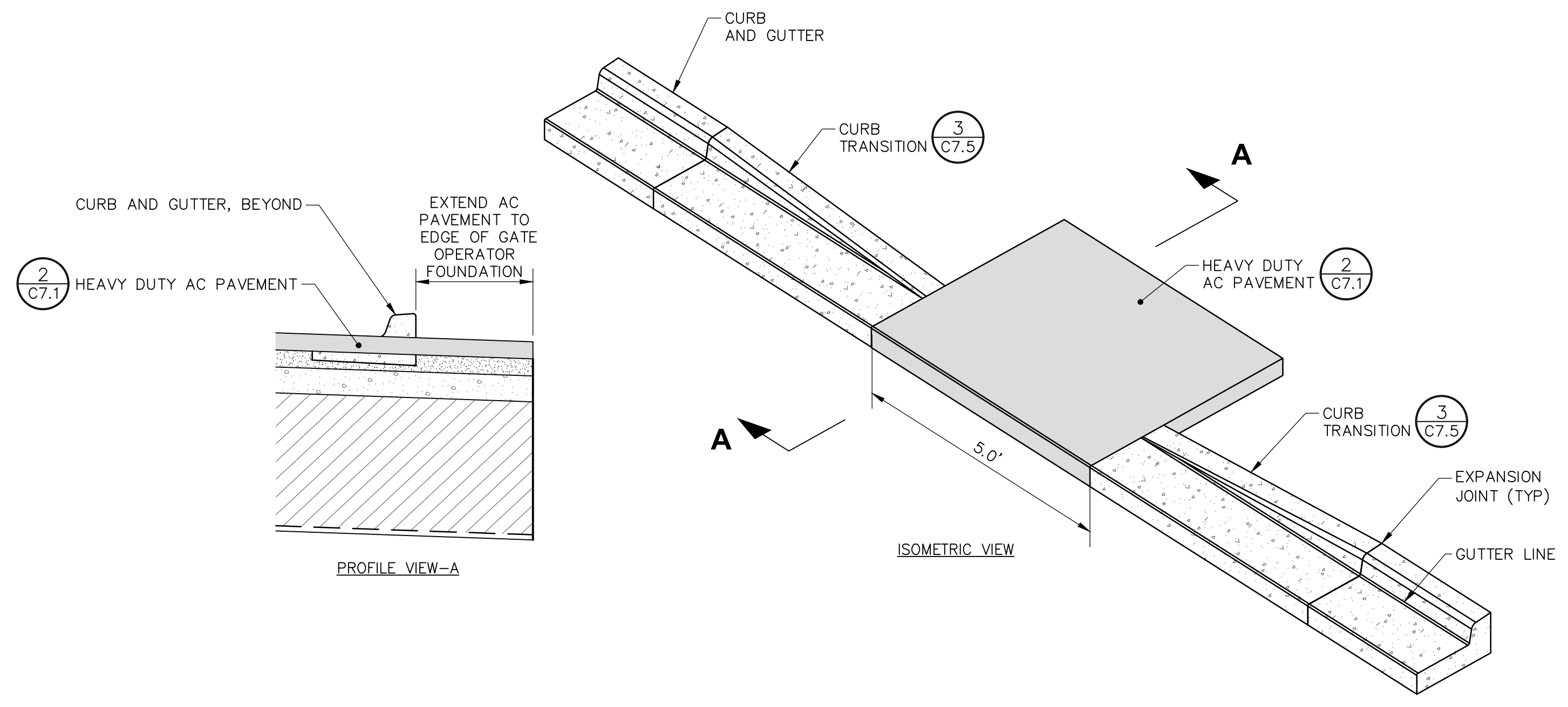
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VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG
C7.3

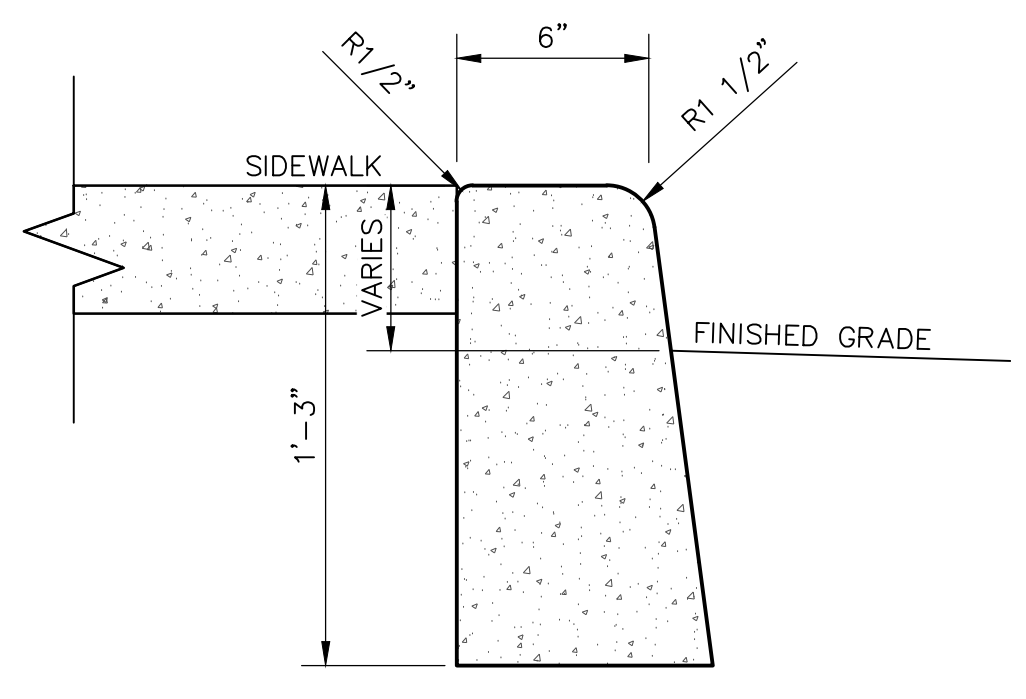
SHEET 73 of 288



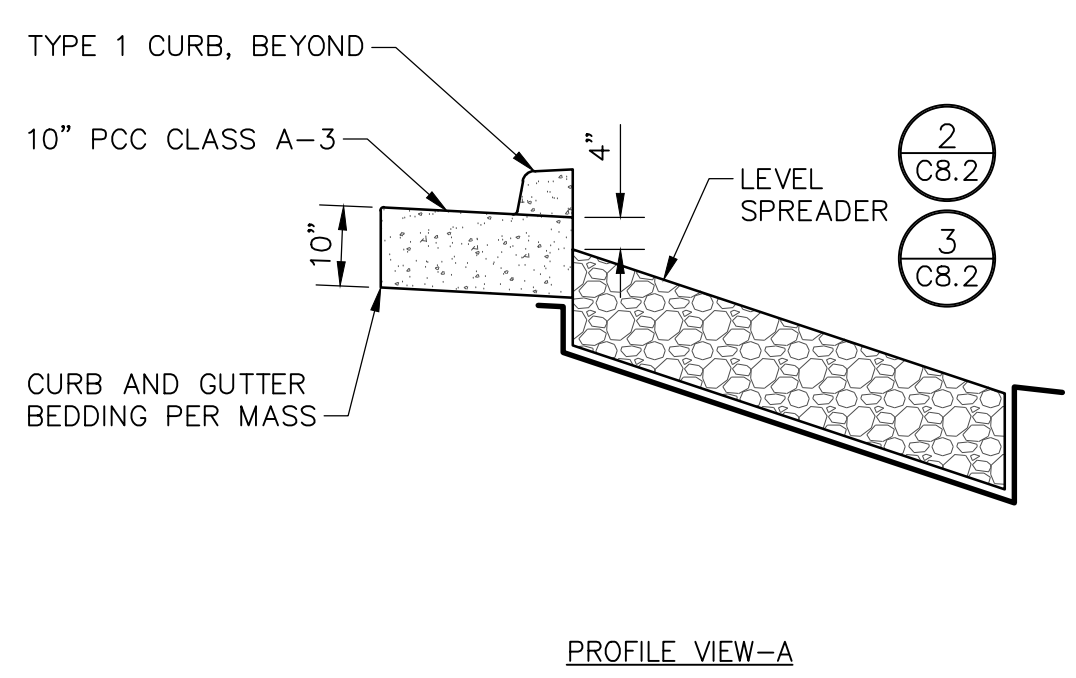
1 CURB & GUTTER TYPES
SCALE: N.T.S.



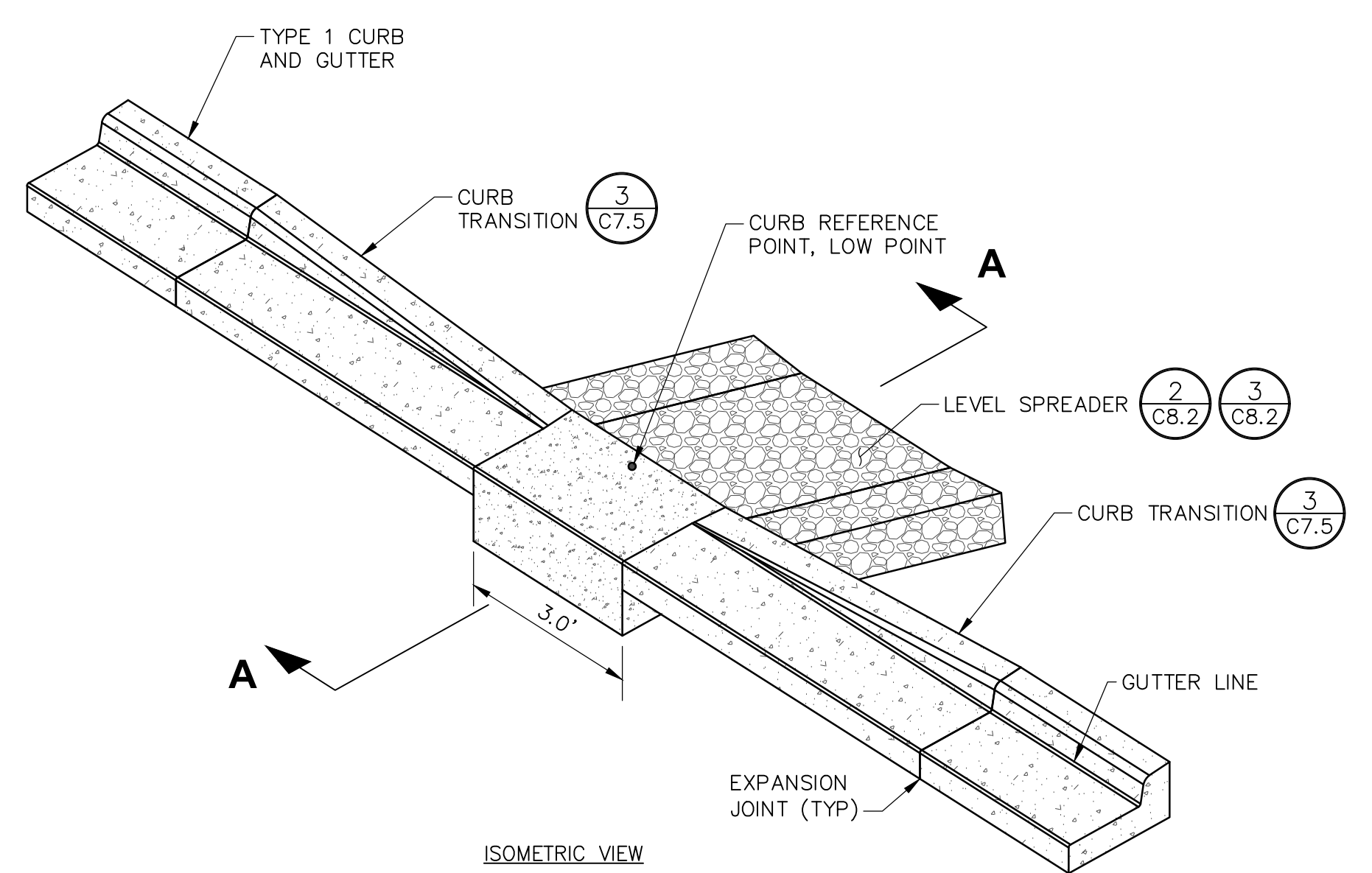
2 GATE CURB CUT DETAIL
SCALE: N.T.S.



3 BORDER CURB DETAIL
SCALE: N.T.S.



4 DRAINAGE CURB CUT DETAIL
SCALE: N.T.S.



ISOMETRIC VIEW

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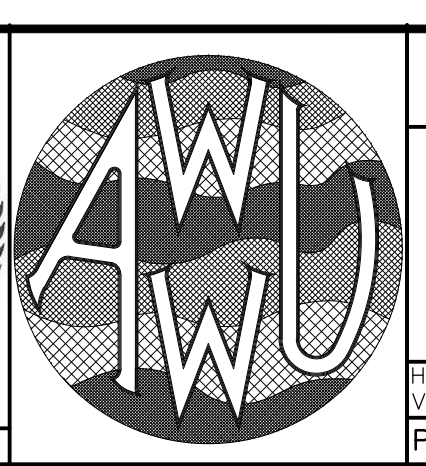
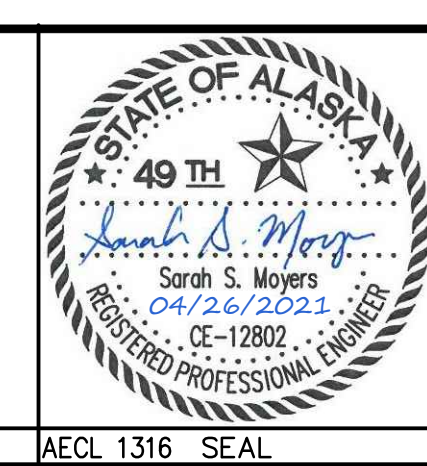
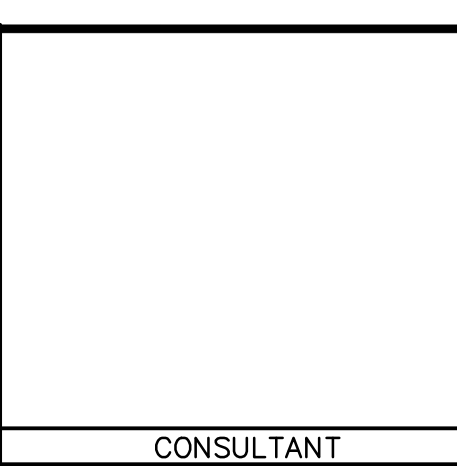
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CURB DETAILS

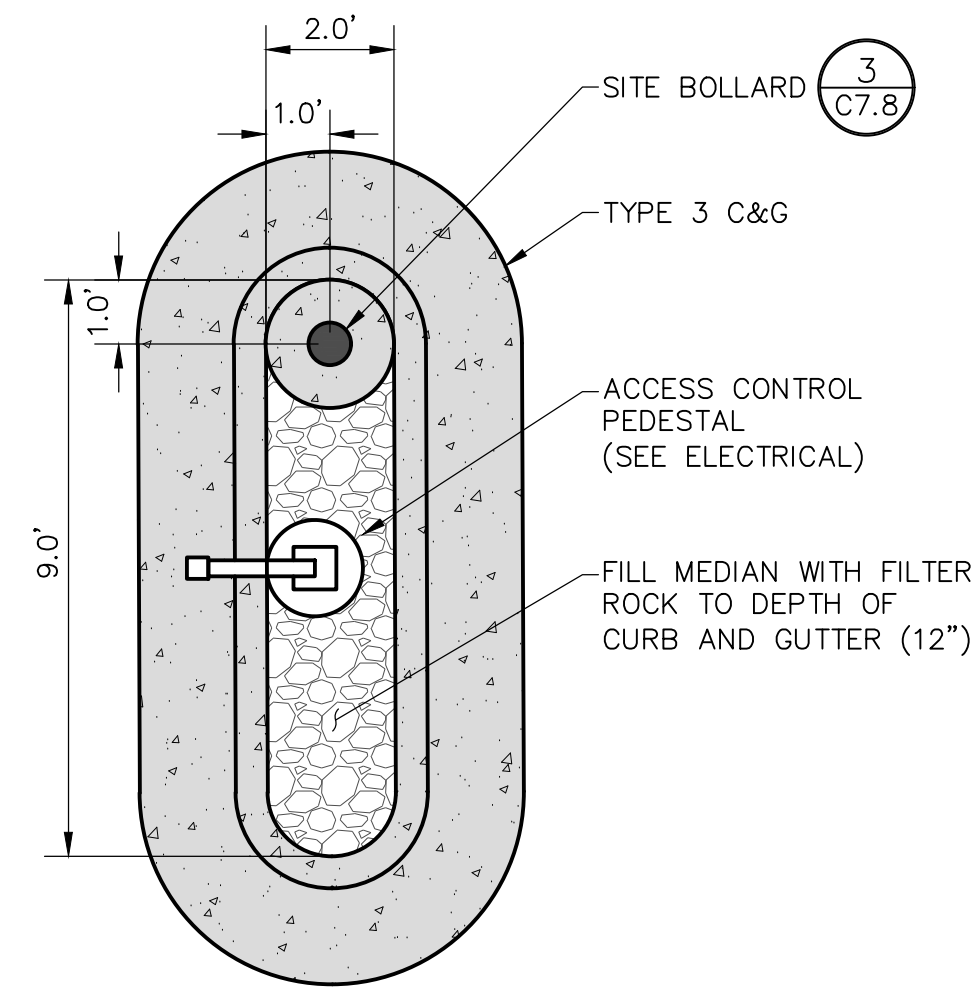
DWG **C7.4**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
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PROJ. ID.: WW.H7775

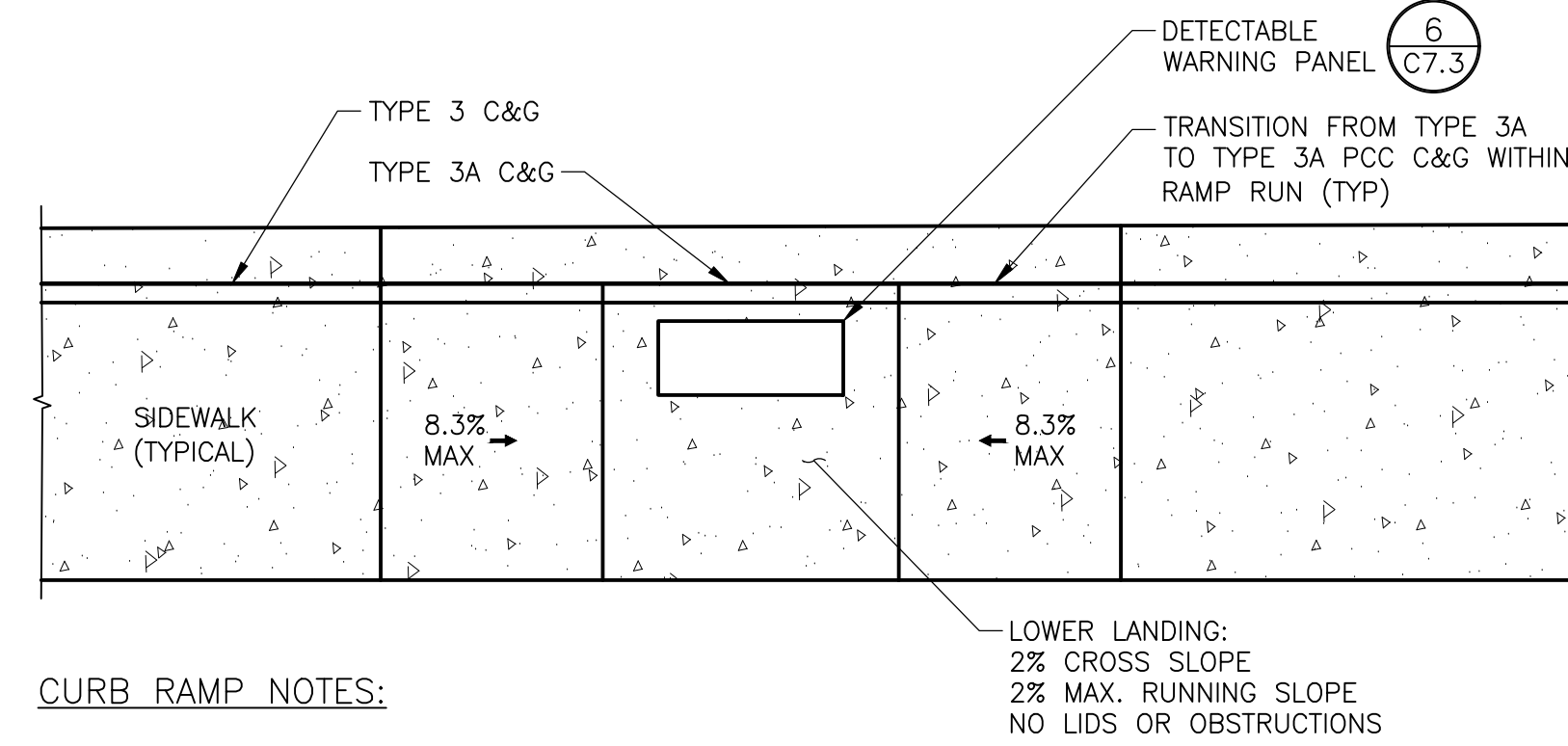
SHEET 74 of 288

NOTE:

TROWEL BOTH FRONT AND BACK EDGES OF THE CURB & GUTTER TO A RADIUS OF ONE-HALF (1/2) INCH.



1 GATE ACCESS CONTROL MEDIAN DETAIL
SCALE: N.T.S.



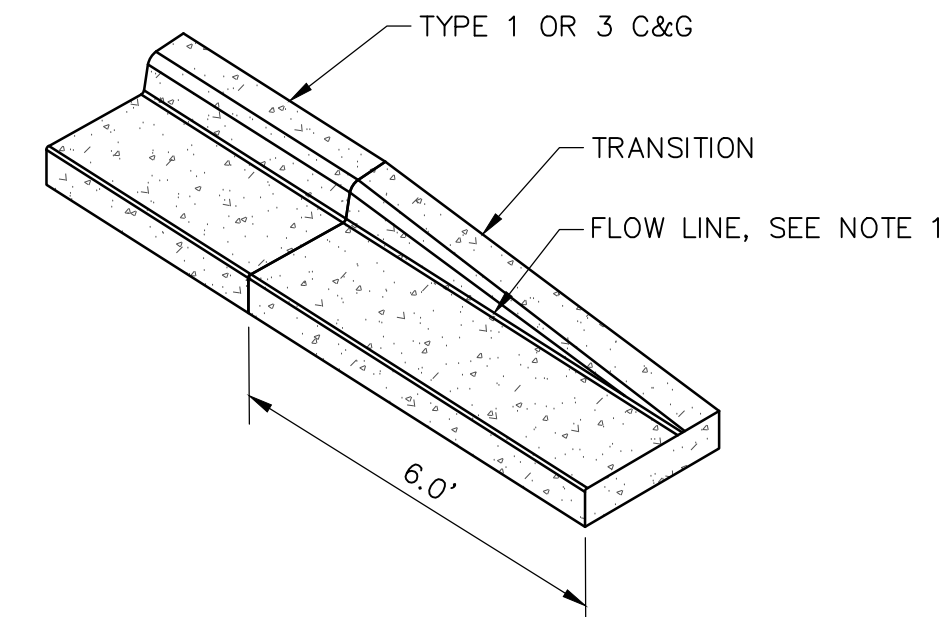
CURB RAMP NOTES:

- TRANSITION CURBS TO MAINTAIN CONSTANT FLOWLINE ACROSS CURB RAMP AND AROUND CURB RETURN IN ACCORDANCE WITH PLANS.

2 PCC PARALLEL CURB RAMP DETAIL
SCALE: N.T.S. MODIFIED MASS 30-9

CURB TRANSITION NOTES:

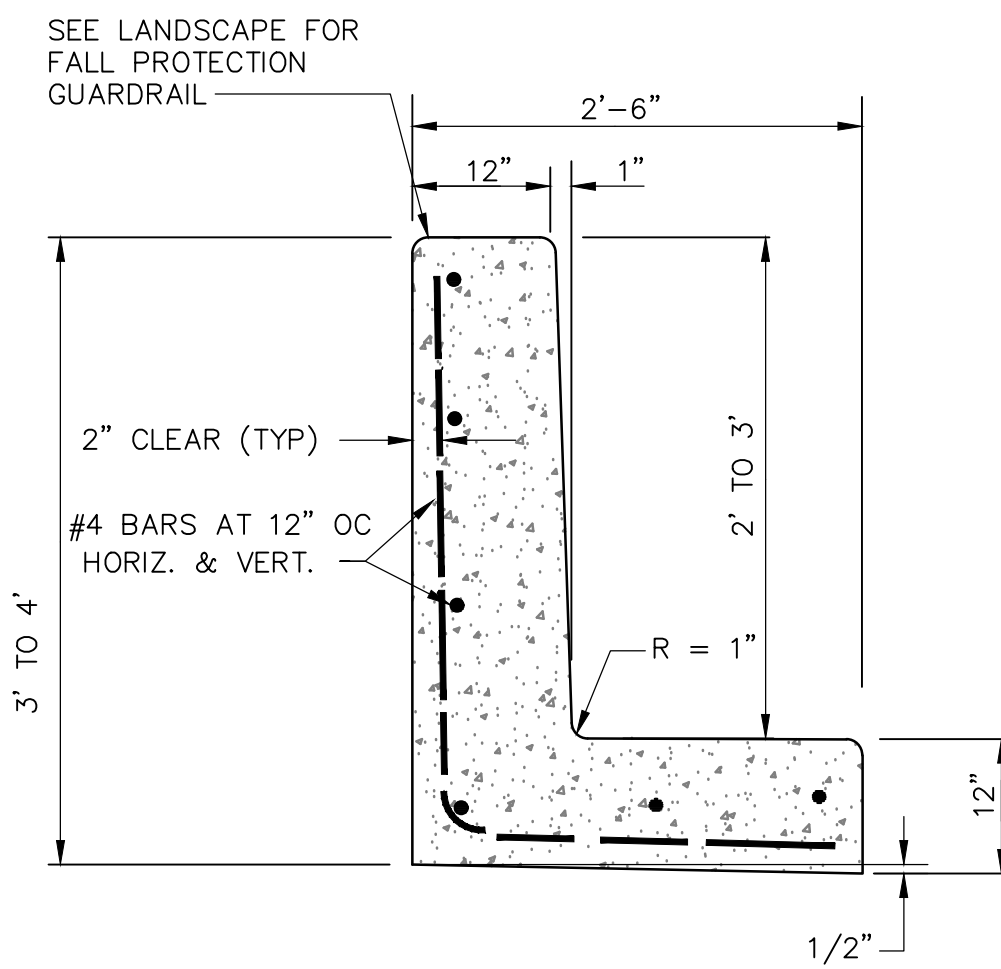
- PROVIDE CONSTANT FLOW ACROSS TRANSITION LENGTH.
- CURB TRANSITION SHALL BE PROVIDED AT ALL CURB ENDS.
- TRANSITION CURBS TO MAINTAIN CONSTANT FLOWLINE.



3 CURB TRANSITION DETAIL
SCALE: N.T.S.

NOTE:

PROVIDE 3/4" CHAMFER AT ALL OUTSIDE EDGES.



4 CURB TYPE RETAINING WALL DETAIL
SCALE: N.T.S. MODIFIED MASS 30-13

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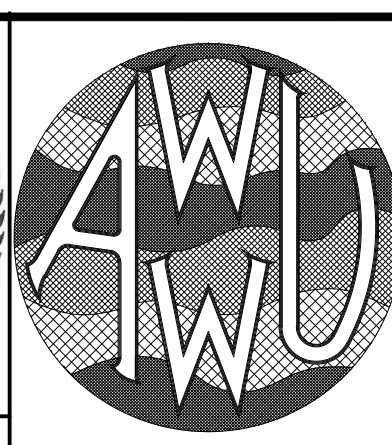
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STATE OF ALASKA
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 Sarah S. Moyers
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 AECL 1316 SEAL



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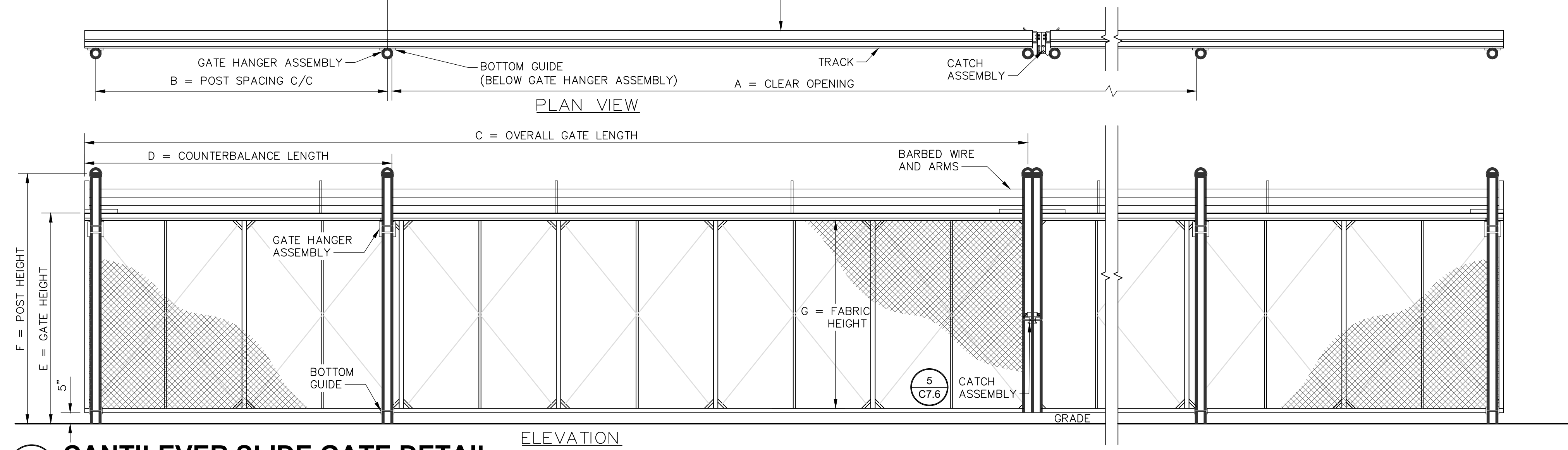
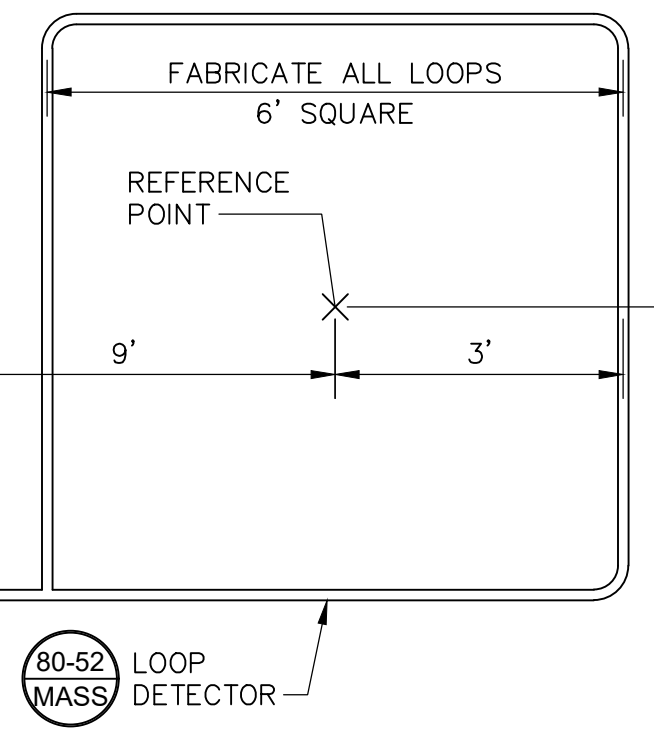
ACCESS CONTROL AND CONCRETE DETAILS

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

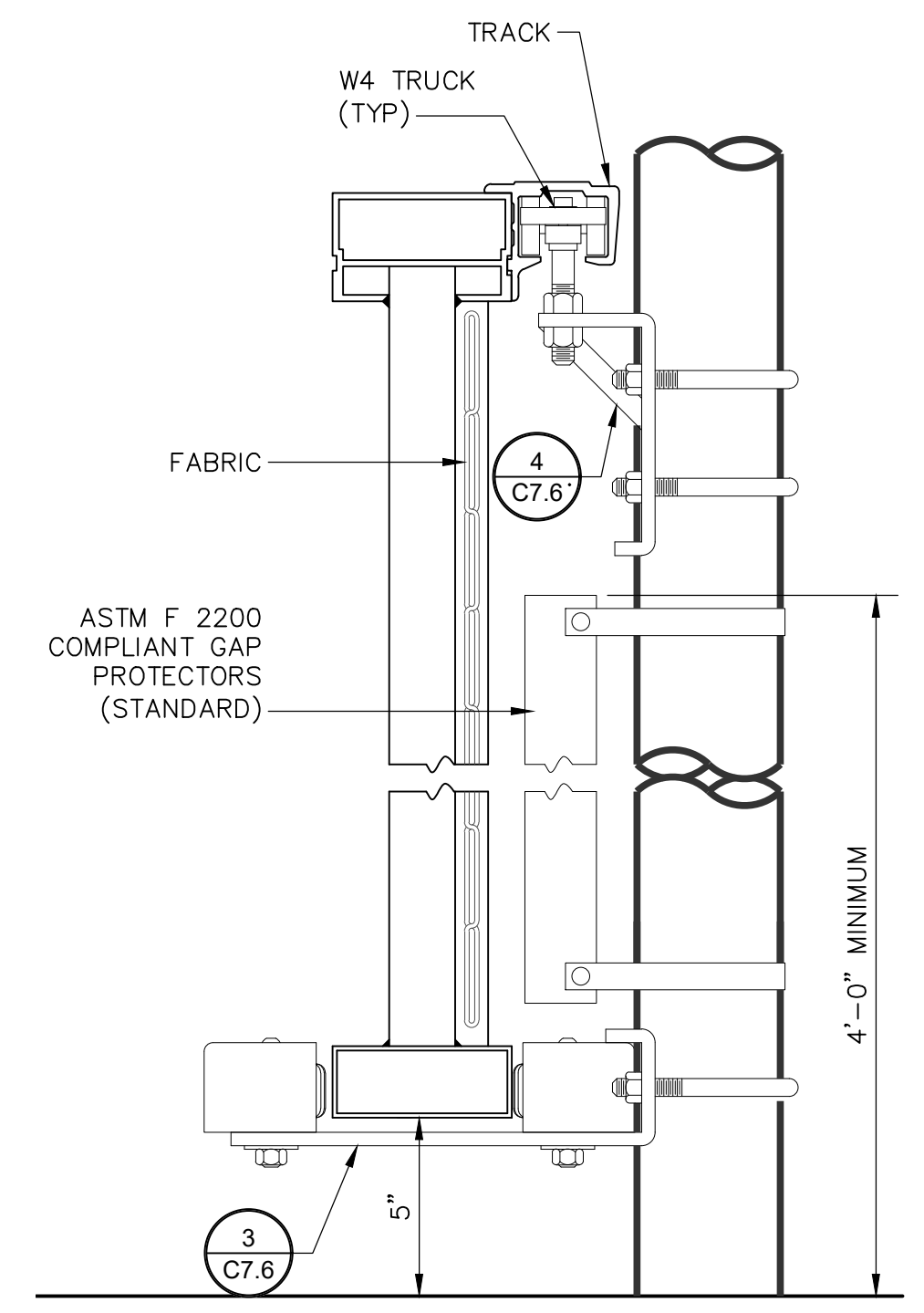
DWG
C7.5

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AUTOMATIC VEHICLE SLIDE GATE DIMENSION CHART					
DIMENSION	DESCRIPTION	LOCATION			
		GATE 13 EAST 92nd AVENUE NORTH-SOUTH ACCESS	GATE 12 EAST 92nd AVENUE NORTHEAST ACCESS	GATE 9 SOUTH ACCESS (EXISTING WWSB EXIT)	GATE 6 SOUTH ACCESS (WWSB ADDITION EXIT)
A	CLEAR OPENING	30'	30'	30'	36'
B	COUNTERBALANCE POST SPACING C/C	6'-7"	6'-7"	6'-7"	8'-1"
C	OVERALL GATE LENGTH	2-23' GATES	2-23' GATES	2-23' GATES	2-27' GATES
D	COUNTERBALANCE LENGTH	7.5'	7.5'	7.5'	9'
E	NOMINAL GATE HEIGHT	8'	8'	8'	8'
F	POST HEIGHT (W/ BARB ARMS)	9'-6"	9'-6"	9'-6"	9'-6"
G	FABRIC HEIGHT	7'	7'	7'	7'

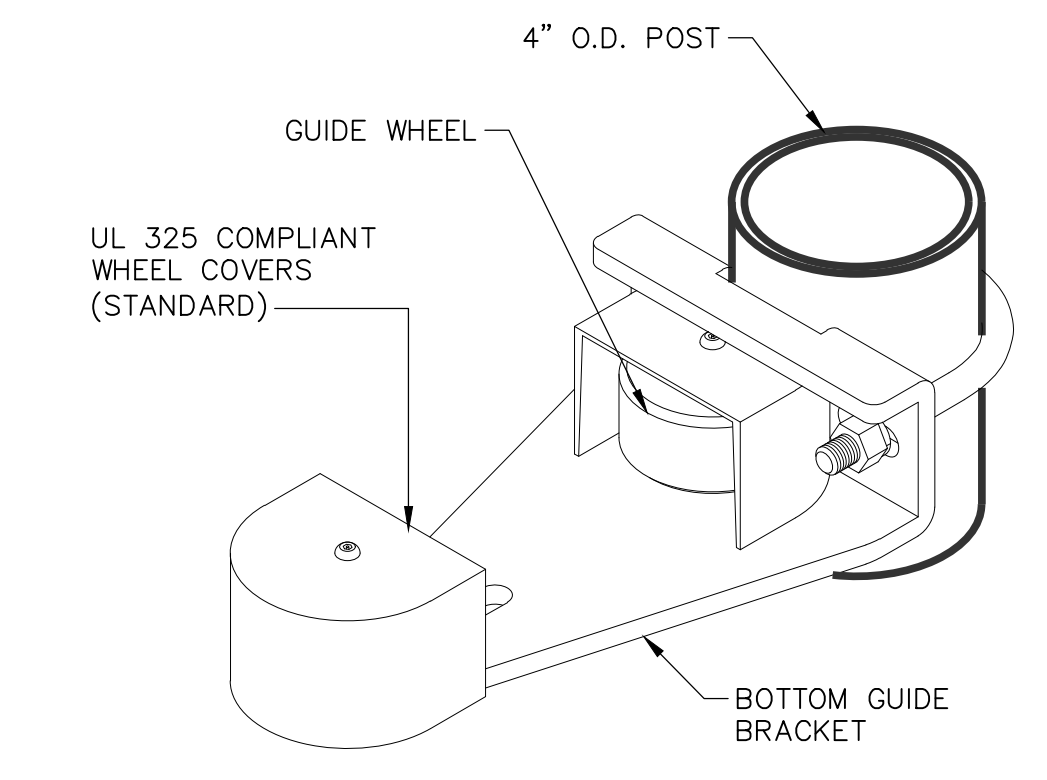


1 CANTILEVER SLIDE GATE DETAIL
SCALE: N.T.S.

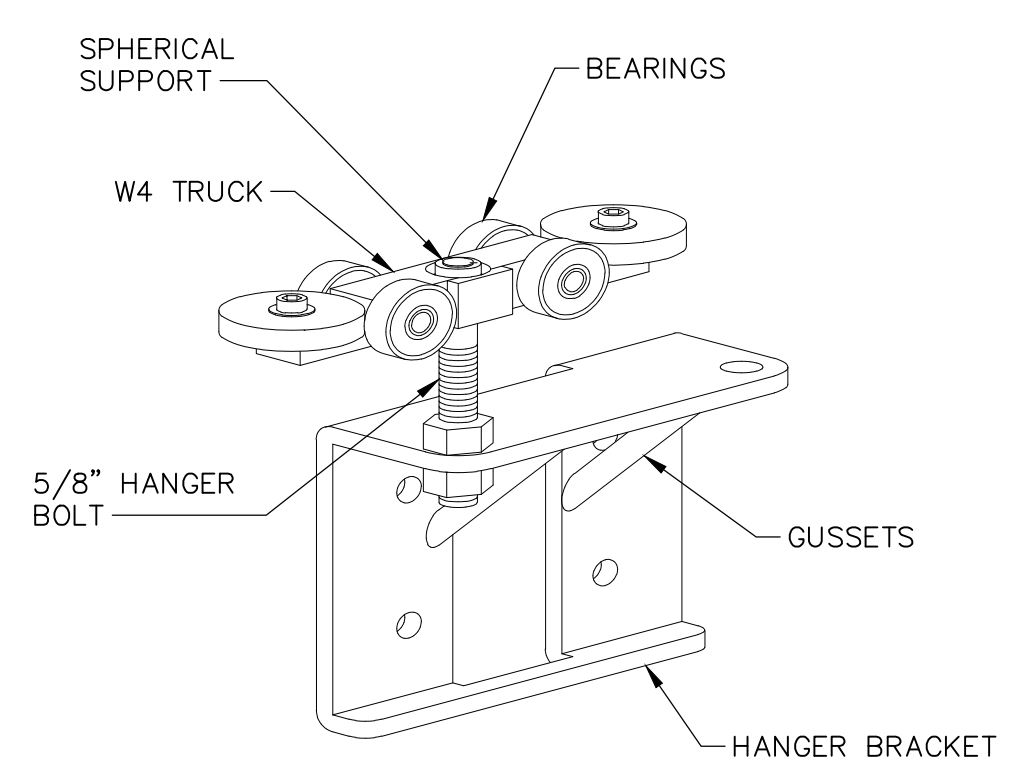


2 CANTILEVER SLIDE GATE SECTION
SCALE: N.T.S.

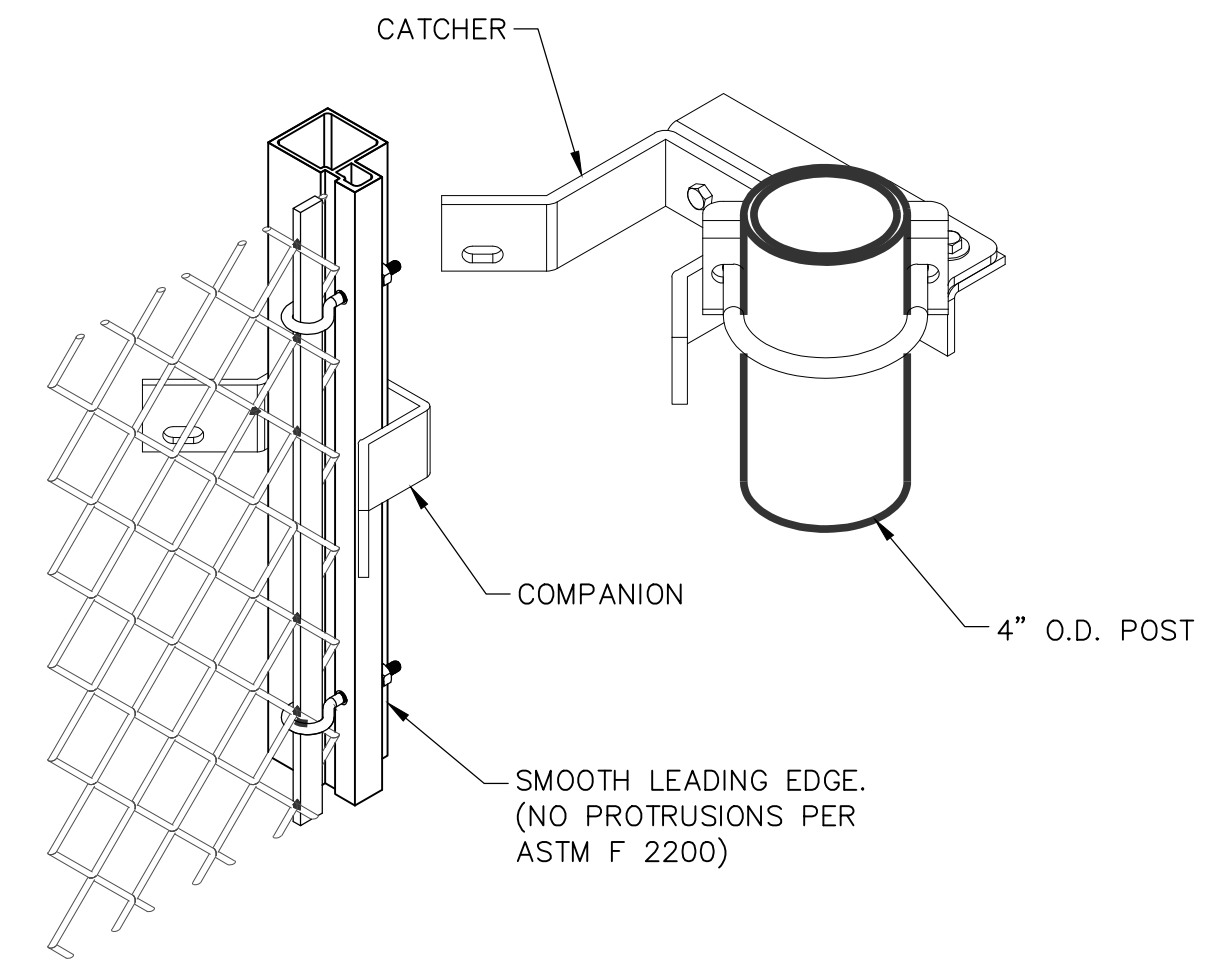
- GATE OPERATOR NOTES:
- LOCATE PER MANUFACTURERS REQUIREMENTS. INSTALL IN ACCORDANCE WITH UL-325 AND ASTM F2200.
 - CONTRACTOR TO VERIFY SIZE OF PAD PENETRATIONS AND MOUNTING FOR TYPE OF OPERATOR PROVIDED.
 - LOCATE CONDUIT STUBS PER MANUFACTURERS REQUIREMENTS. SEE ELECTRICAL.
 - CONCRETE FOUNDATION SHALL CURE A MINIMUM OF 7 DAYS BEFORE INSTALLATION OF GATE OPERATOR.
 - PROVIDE 3" OF CLEAR COVER FOR ALL REINFORCING STEEL.



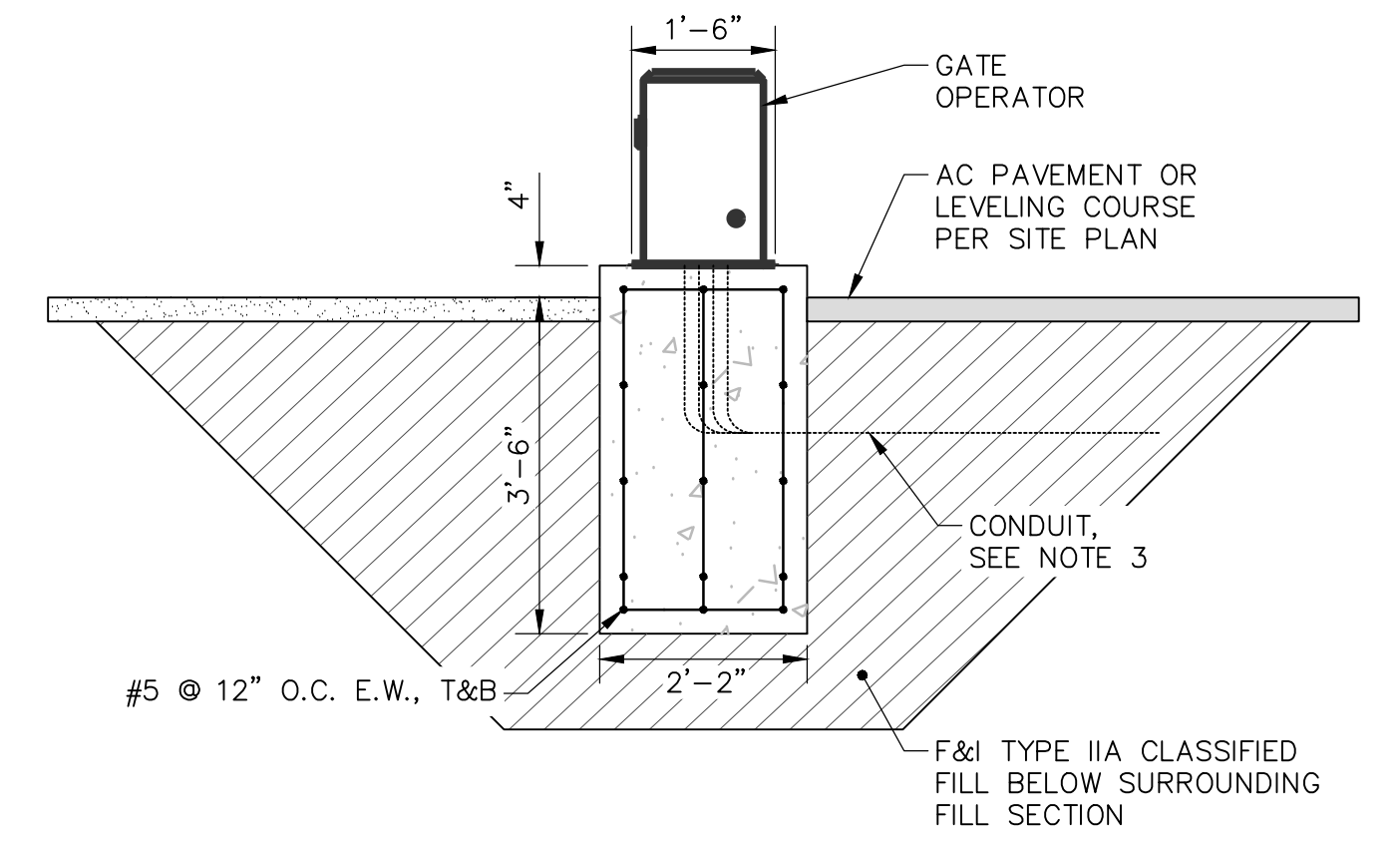
3 CANTILEVER SLIDE GATE BOTTOM GUIDE DETAIL
SCALE: N.T.S.



4 CANTILEVER SLIDE GATE HANGER ASSEMBLY DETAIL
SCALE: N.T.S.



5 CANTILEVER SLIDE GATE CATCH ASSEMBLY DETAIL
SCALE: N.T.S.



6 OPERATOR FOUNDATION DETAIL
SCALE: N.T.S.

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

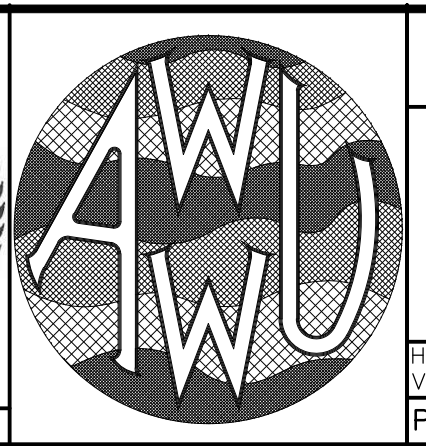
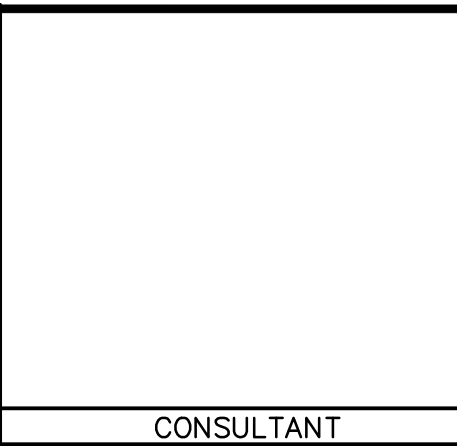
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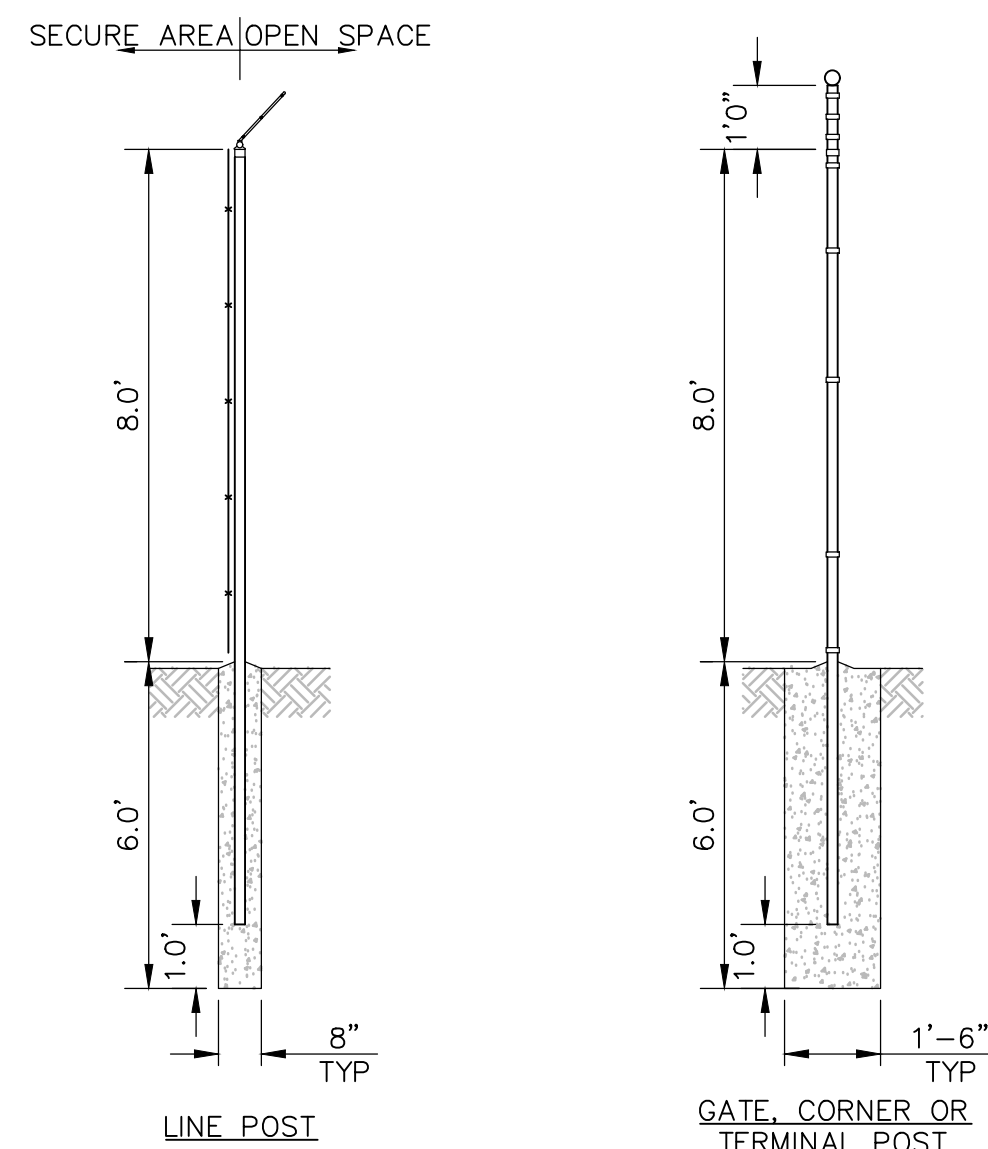
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

VEHICLE SLIDE GATE DETAILS

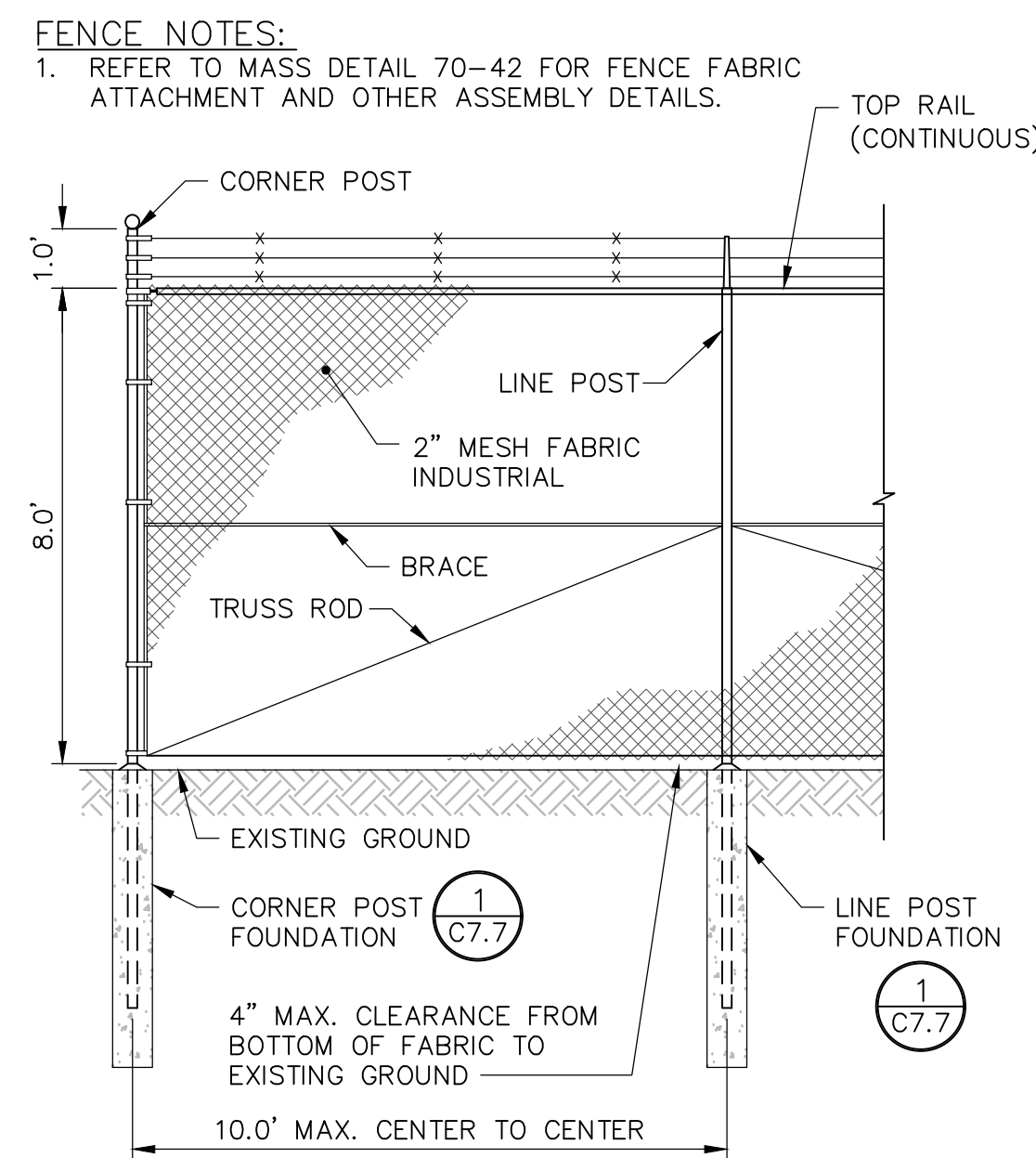
DWG C7.6

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

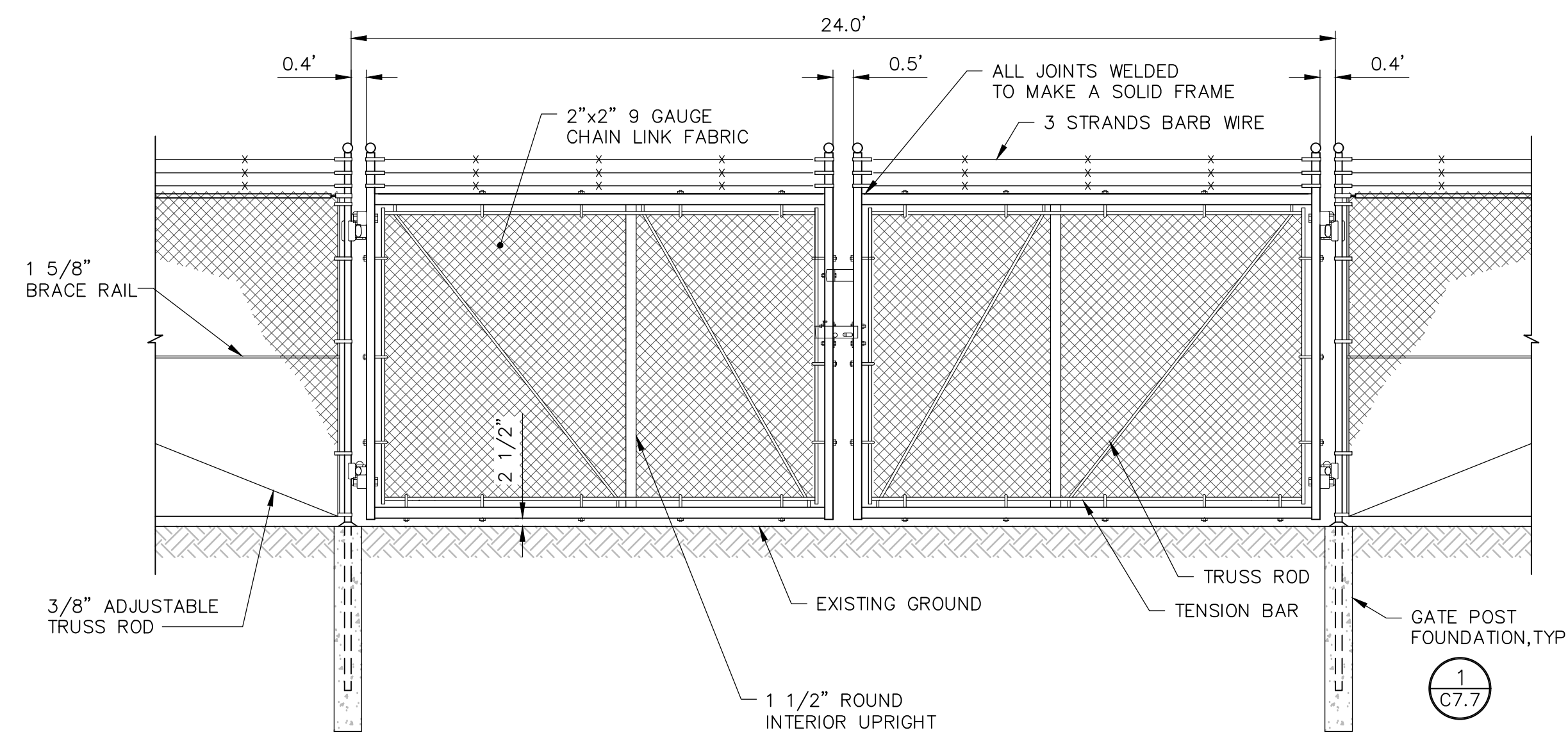
SHEET 76 of 288



1 FENCE POST FOUNDATIONS
SCALE: N.T.S.



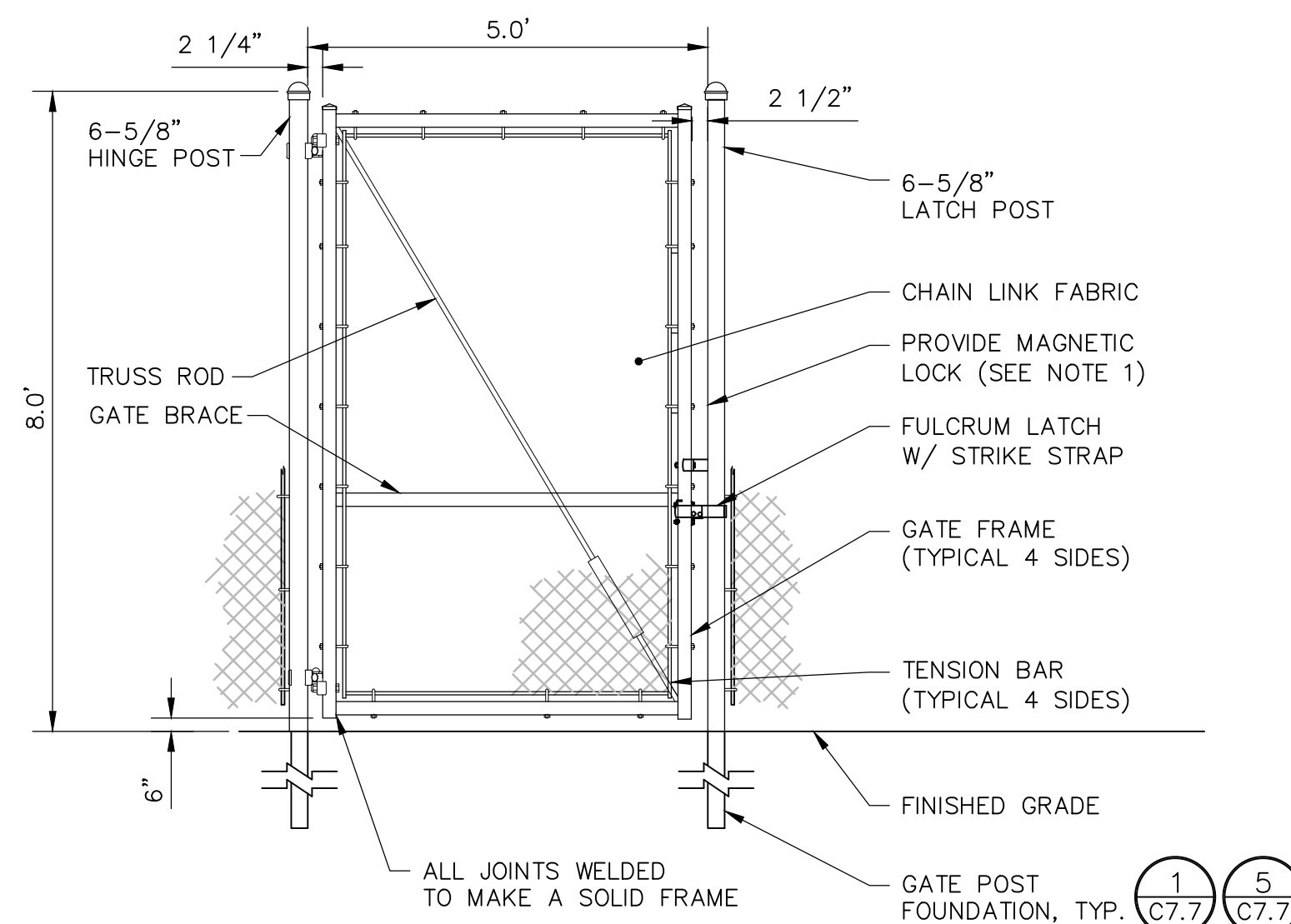
2 FENCE DETAIL
SCALE: N.T.S.



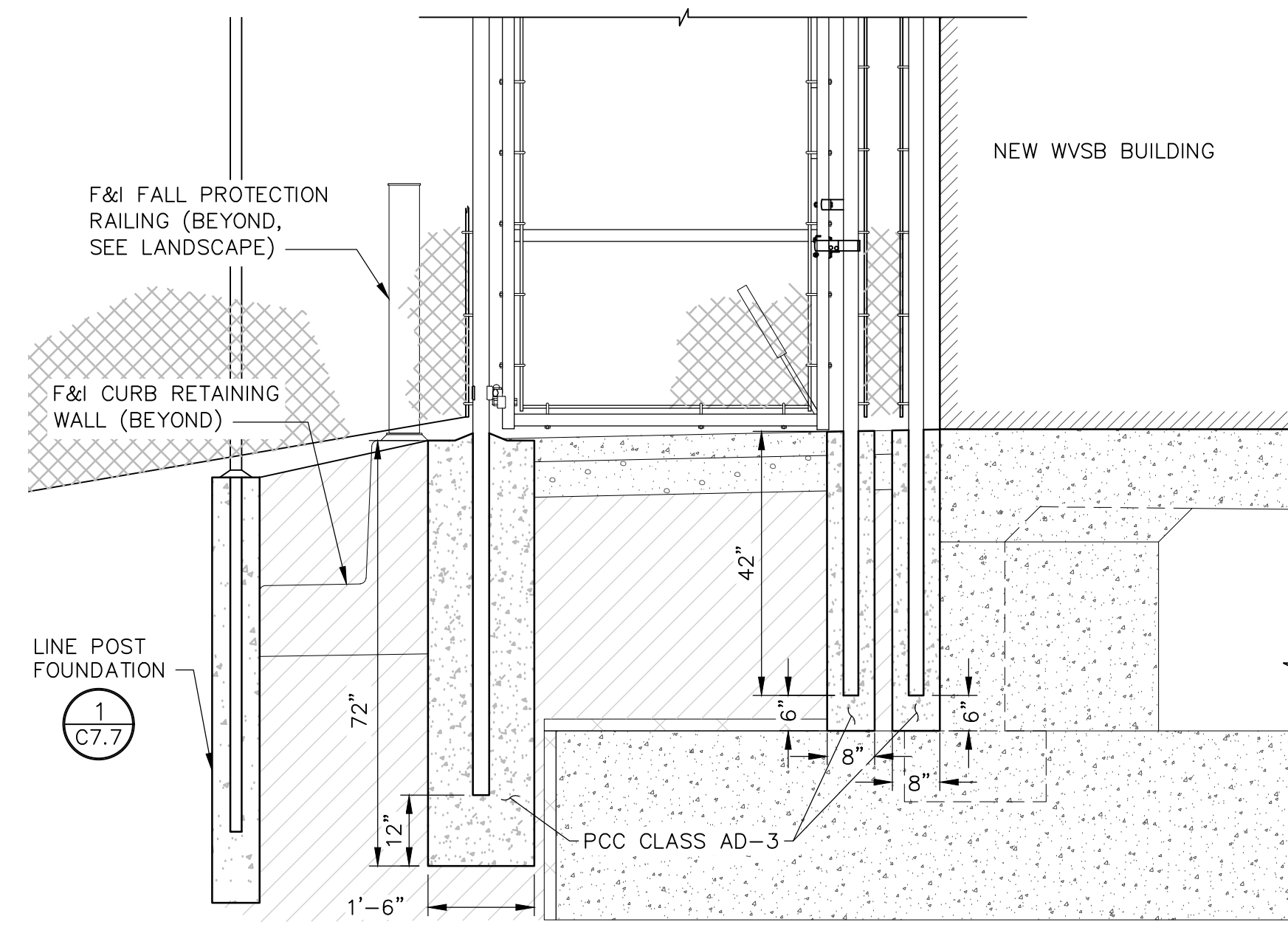
3 VEHICLE SWING GATE DETAIL
SCALE: N.T.S.

NOTE:

- SEE ELECTRICAL FOR ACCESS CONTROL COMPONENTS.



4 PEDESTRIAN SWING GATE DETAIL
SCALE: N.T.S.



5 PEDESTRIAN GATE 5 FOUNDATION DETAIL
SCALE: N.T.S.

REV	DATE	DESCRIPTION	BY

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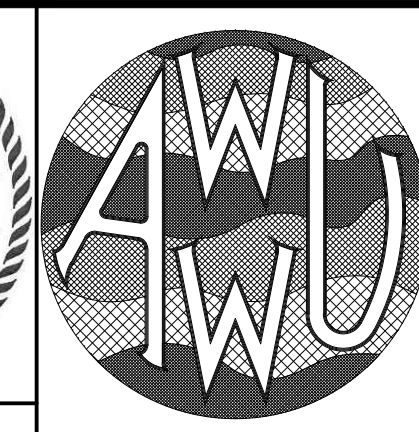
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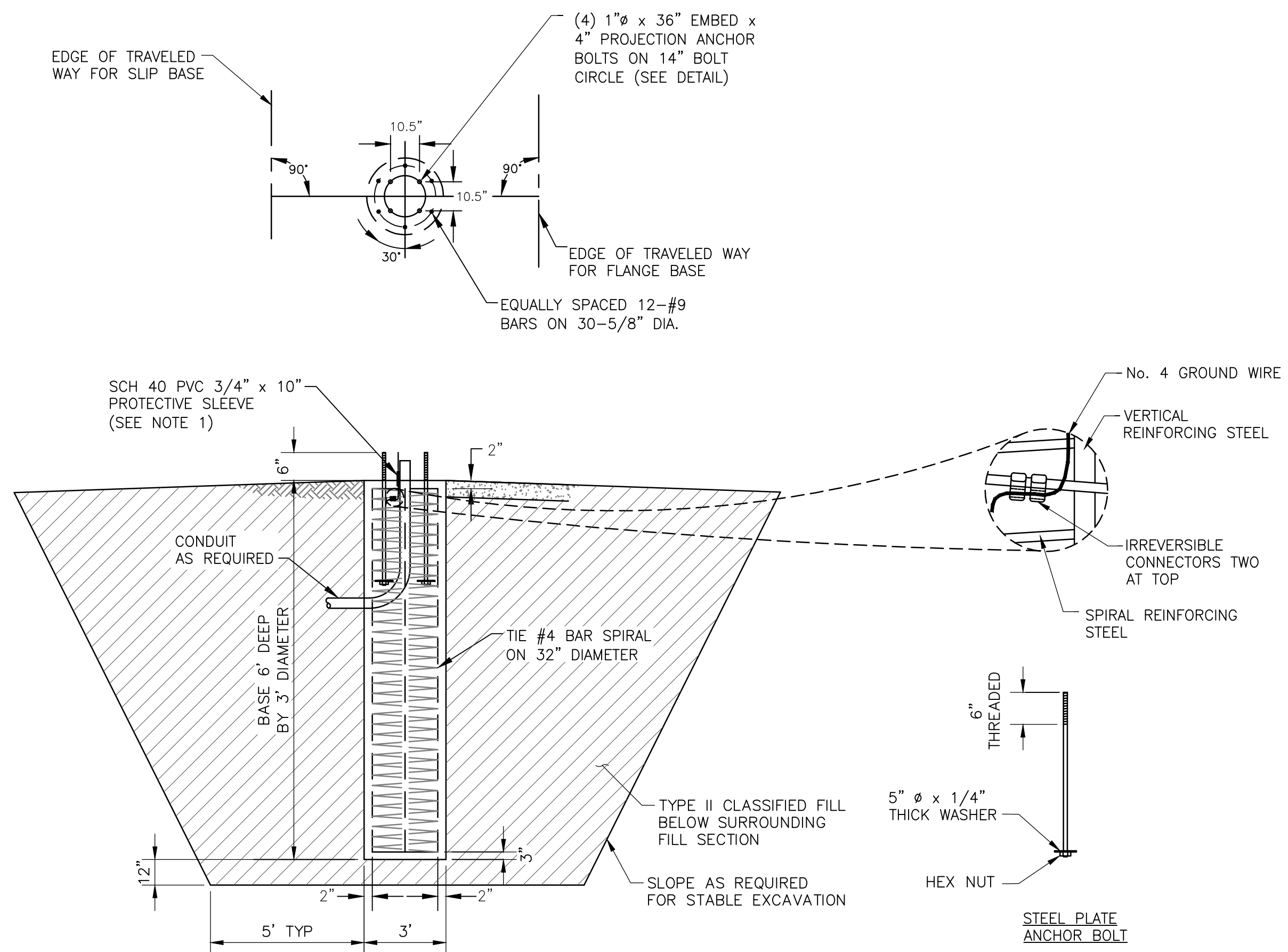
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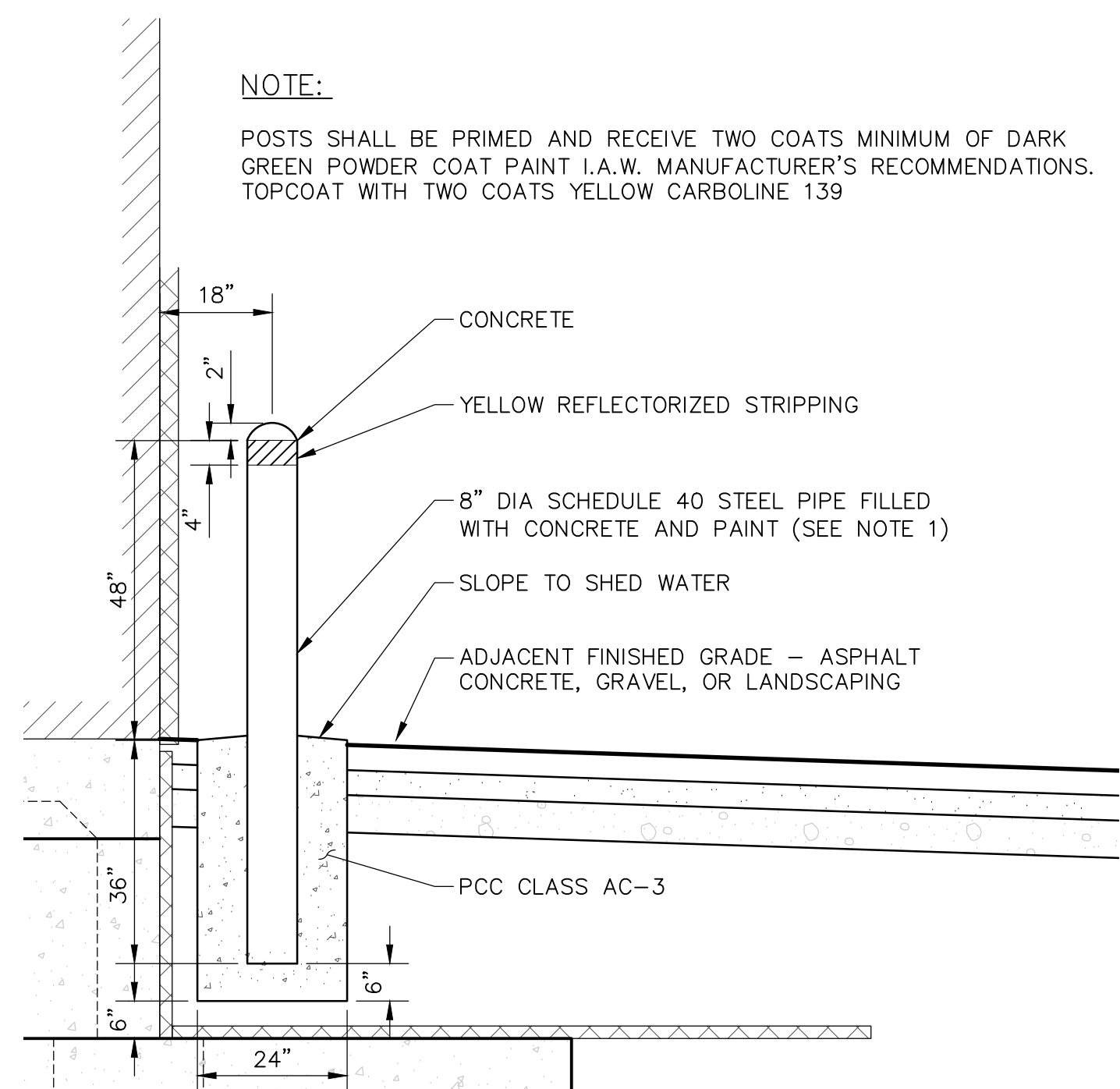
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		DWG
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT		C7.7
SWING GATE & FENCE DETAILS		
HORIZ SCALE: N/A	DATE: APRIL 2021	GRID: SW 2431
VERT SCALE: N/A	PROJ. ID.: WW.H7775	SHEET 77 of 288

NOTES:

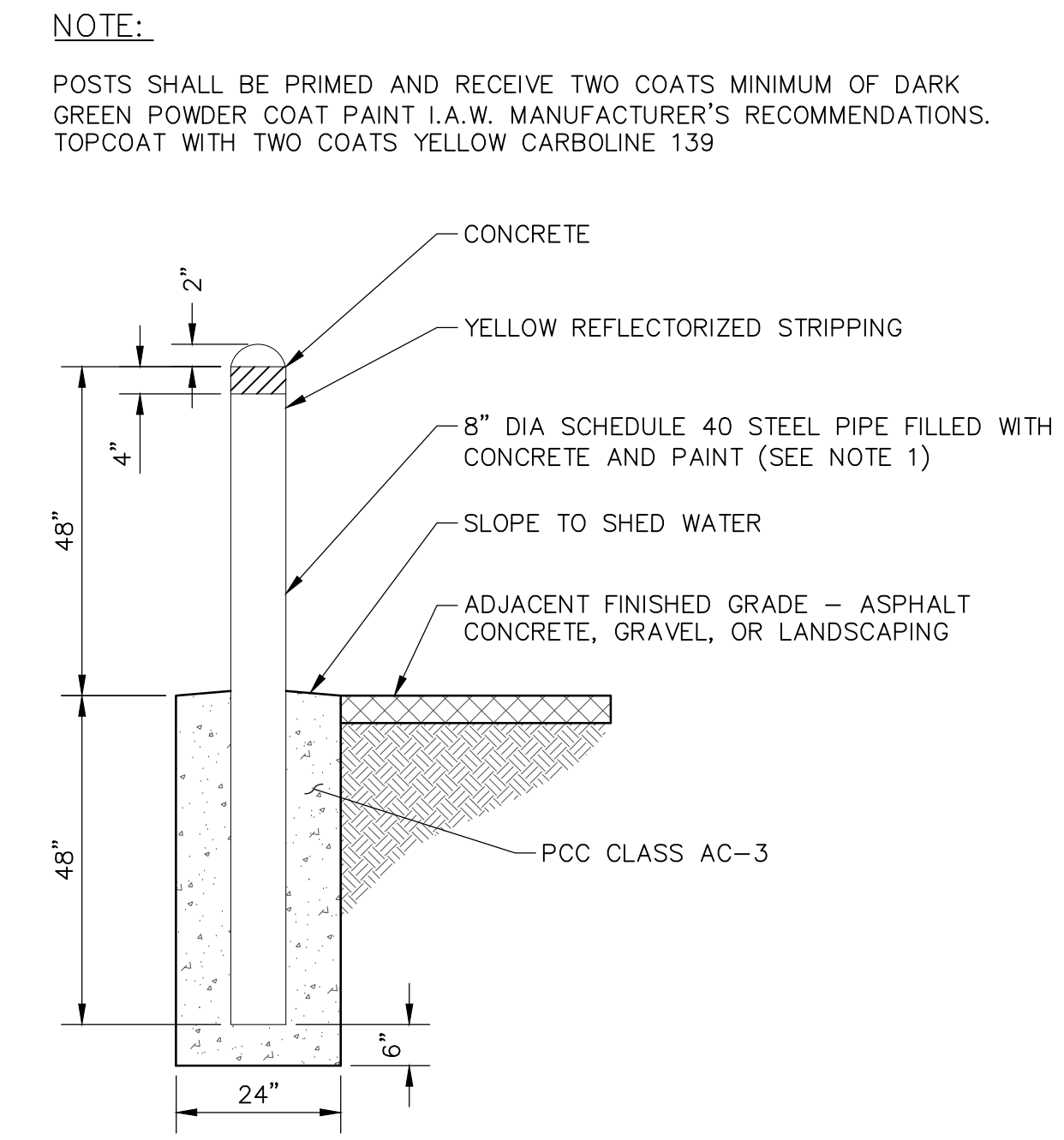
- CONNECT NO. 4 GROUND WIRE TO ONE OF THE TOP SPIRALS WITH TWO IRREVERSIBLE, HYDRAULICALLY SWAGED CONNECTORS AS SHOWN. GROUND WIRE SHALL BE BARE SOLID, STRANDED, OR BRAIDED COPPER. PROTECT GROUND WIRE WITH CONDUIT AS SHOWN AND FILL CONDUIT WITH SILICON SEALANT. ALLOW 1" OF THE SLEEVE AND 24" OF CONDUCTOR TO PROTRUDE FROM THE FOUNDATIONS.
- THIS FOUNDATION IS APPROVED FOR APPLICATIONS IN COHESIONLESS SOILS WITH AN N1-60 VALUE OF 10 OR GREATER PER AASHTO T-206, "STANDARD PENETRATION TEST" (SPT). THIS FOUNDATION SHALL NOT BE USED IF ANY OF THE FOLLOWING ARE ENCOUNTERED; WATER TABLE ABOVE THE BOTTOM OF FOUNDATION, VERY LOOSE SOILS, ORGANIC SOILS OR, COHESIVE SOILS (CLAY), OR SOILS SUSCEPTIBLE TO FROST JACKING. IF ANY OF THESE CONDITIONS ARE ENCOUNTERED, STOP FOUNDATION WORK AND CONTACT THE ENGINEER.



1 POURED CONCRETE LUMINAIRE POLE FOUNDATION
SCALE: NTS
MODIFIED MASS 80-9



2 TYPICAL EXTERIOR BUILDING BOLLARD
SCALE: NTS



3 TYPICAL SITE BOLLARD
SCALE: NTS
MODIFIED MASS 70-36

REV	DATE	DESCRIPTION	BY

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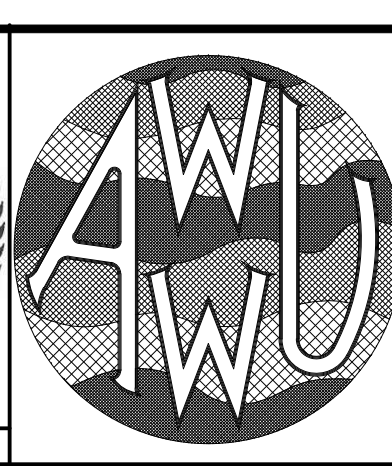
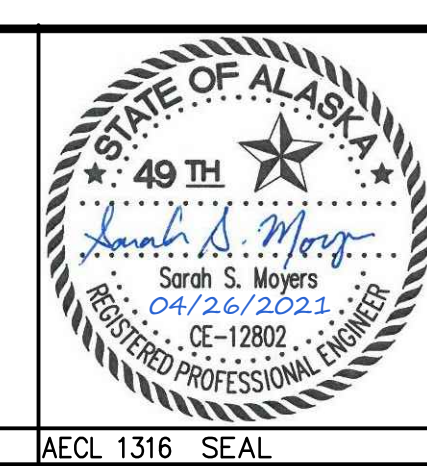
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CONSULTANT



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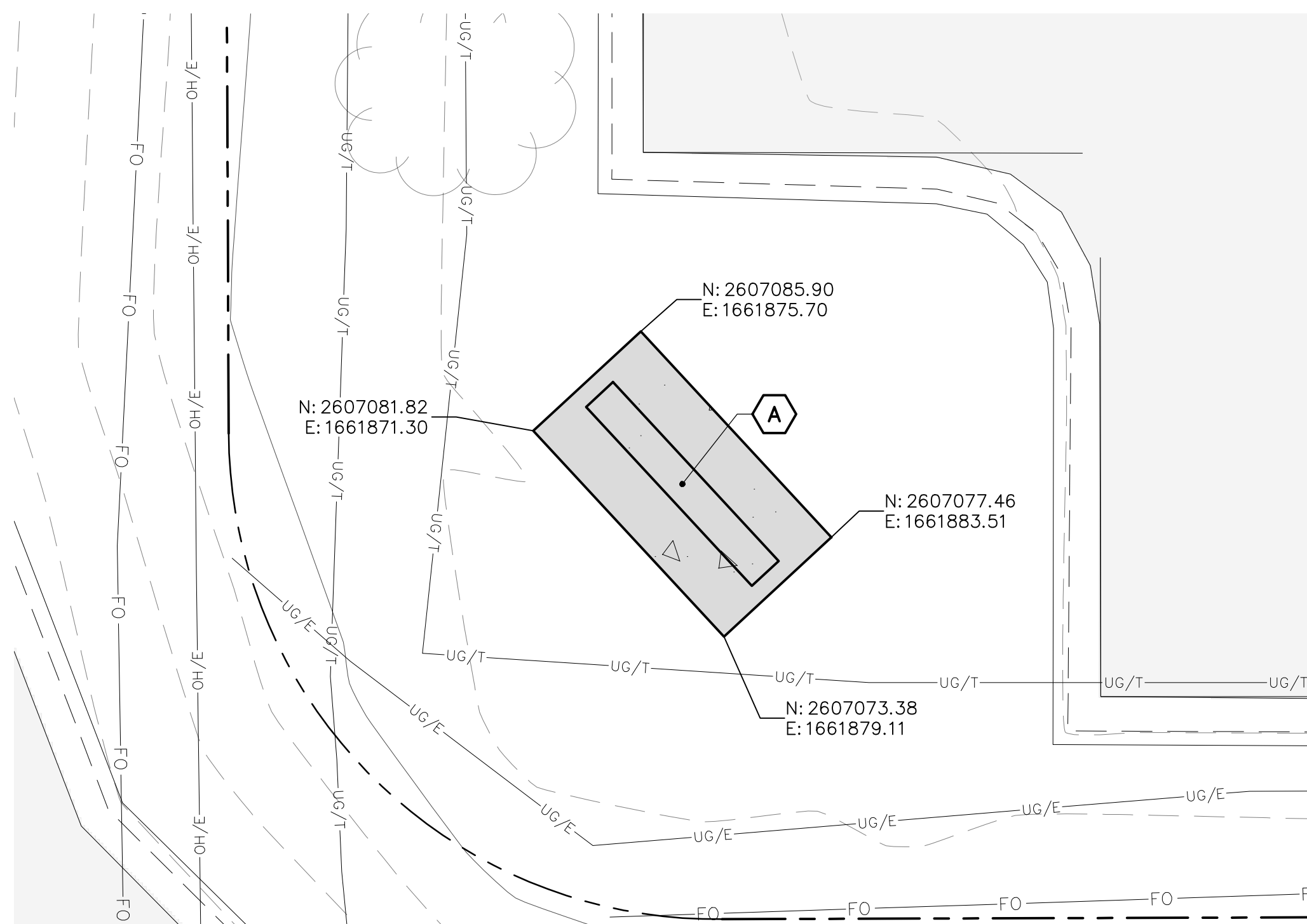
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

SITE DETAILS

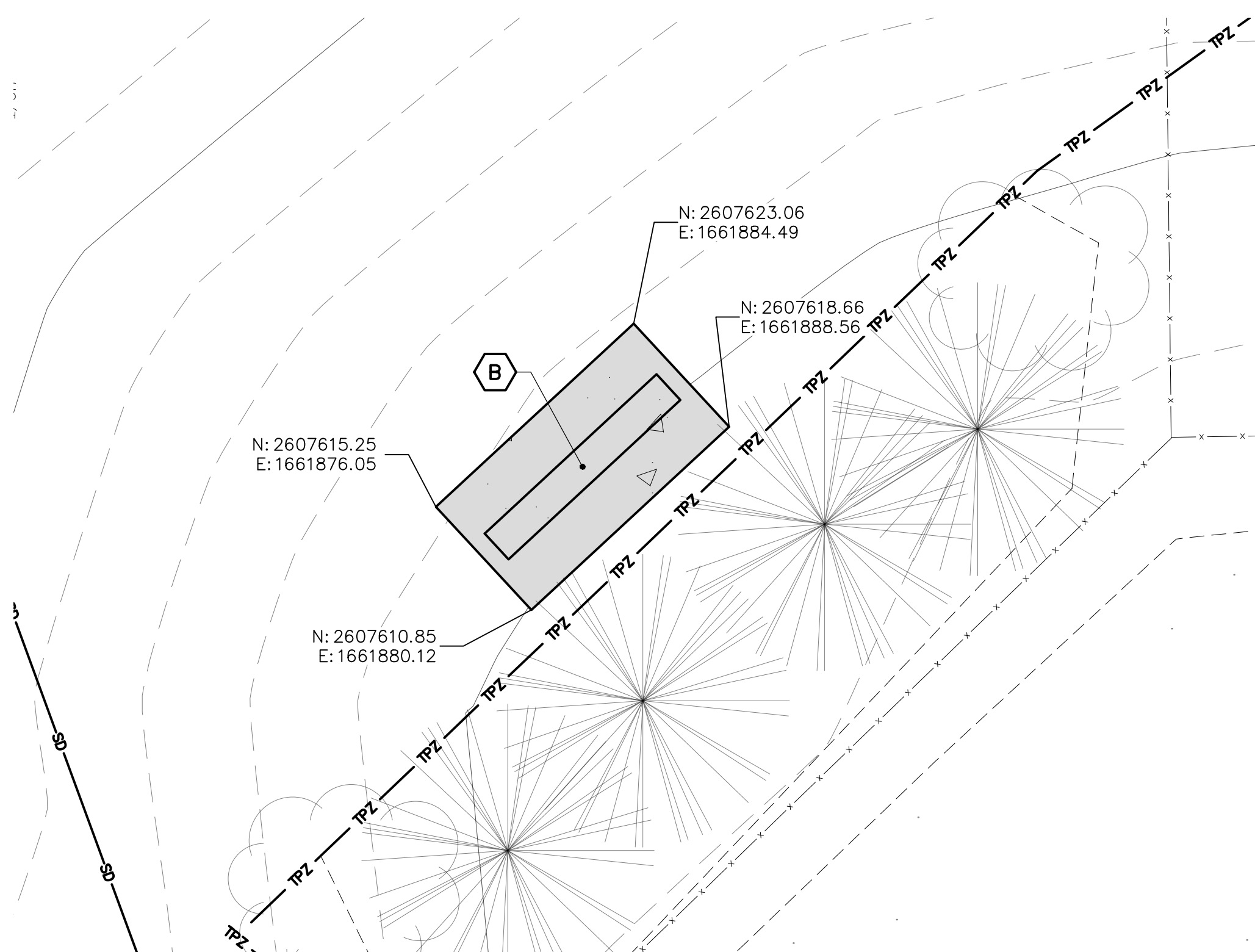
DWG **C7.8**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

SHEET 78 of 288



1 VISITOR ENTRANCE SIGN FOUNDATION LOCATION
SCALE: 1" = 5'



2 SERVICE ENTRANCE SIGN FOUNDATION LOCATION
SCALE: 1" = 5'

SIGN SCHEDULE											
KEY	NORTHING	EASTING	TYPE	LEGEND	WIDTH (IN)	HEIGHT (IN)	AREA (FT ²)	SIGN FACES	LOCATION DETAIL	FOUNDATION DETAIL	REMARKS
A	2607079.64	1661877.40	SPECIAL MONUMENT	VISITOR ENTRANCE				SW	2 C7.7	CUSTOM, SEE REMARKS	SEE LANDSCAPE DETAIL 1/L5.4
B	2607616.95	1661882.31	SPECIAL MONUMENT	SERVICE ENTRANCE				NW	1 C7.1	CUSTOM, SEE REMARKS	SEE LANDSCAPE DETAIL 1/L5.5
C	2607416.56	1662622.17	R1-1	STOP	30	30	6.25	N	70-23 MASS	70-31 MASS	
D	2607419.33	1662398.48	R1-1	STOP	30	30	6.25	E	70-23 MASS	70-31 MASS	
E	2607425.53	1662612.95	R7-8	RESERVED PARKING	12	18	1.5	N	70-28 MASS	70-31 MASS	
			R7-8P	VAN ACCESSIBLE	12	9	0.75	N			
F	2607425.49	1662596.93	R7-8	RESERVED PARKING	12	18	1.5	N	70-28 MASS	70-31 MASS	
G	2607425.45	1662588.93	R7-8	RESERVED PARKING	12	18	1.5	N	70-28 MASS	70-31 MASS	
H	2607425.41	1662575.93	R7-8	RESERVED PARKING	12	18	1.5	N	70-28 MASS	70-31 MASS	
I	2607425.15	1662497.46	R7P-101R	NO PARKING ANYTIME	12	18	1.5	N	70-28 MASS	70-31 MASS	
J	2607425.11	1662481.44	R7P-101L	NO PARKING ANYTIME	12	18	1.5	N	70-28 MASS	70-31 MASS	
K	2607673.29	1662282.69	SPECIAL	DIRECTIONAL	12	18	1.5	W	70-21 MASS	70-31 MASS	SEPTAGE, DELIVERIES, SERVICE SEE LANDSCAPE DETAIL 1/L5.6 SIGN POST TO BE 2.5-INCH PST
L	2607566.79	1662391.86	SPECIAL	DIRECTIONAL	12	18	1.5	N	70-23 MASS	70-31 MASS	PARKING, DELIVERIES SEE LANDSCAPE DETAIL 2/L5.6 SIGN POST TO BE 2.5-INCH PST
M	2607051.35	1661952.74	SPECIAL	DIRECTIONAL	12	18	1.5	W	70-23 MASS	70-31 MASS	VISITORS, EOC SEE LANDSCAPE DETAIL 3/L5.6 SIGN POST TO BE 2.5-INCH PST
N	2607052.25	1662292.87	SPECIAL	DIRECTIONAL	12	18	1.5	W	70-23 MASS	70-31 MASS	WARM STORAGE, WATER FILL SEE LANDSCAPE DETAIL 4/L5.6 SIGN POST TO BE 2.5-INCH PST
O	2607005.98	1662540.97	SPECIAL	DIRECTIONAL	12	18	1.5	W	70-23 MASS	70-31 MASS	WATER FILL SEE LANDSCAPE DETAIL 5/L5.6 SIGN POST TO BE 2.5-INCH PST
P	2607425.53	1662610.95	R7P-101R	NO PARKING ANYTIME	12	18	1.5	N	70-28 MASS	70-31 MASS	

REV	DATE	DESCRIPTION	BY
1	6/8/21	MOA PLAN REVIEW	SSM
REVISIONS			

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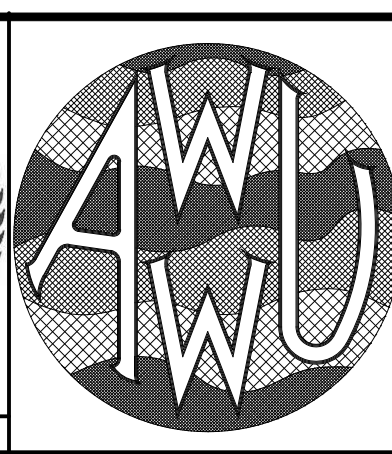
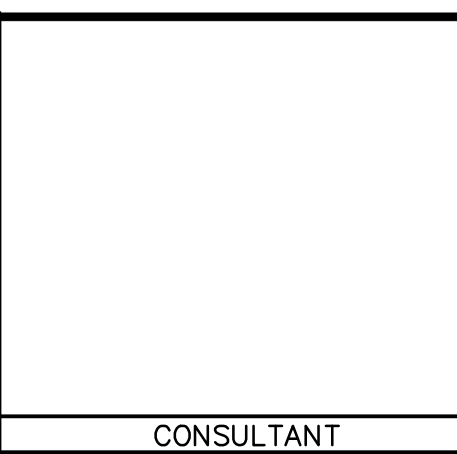
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

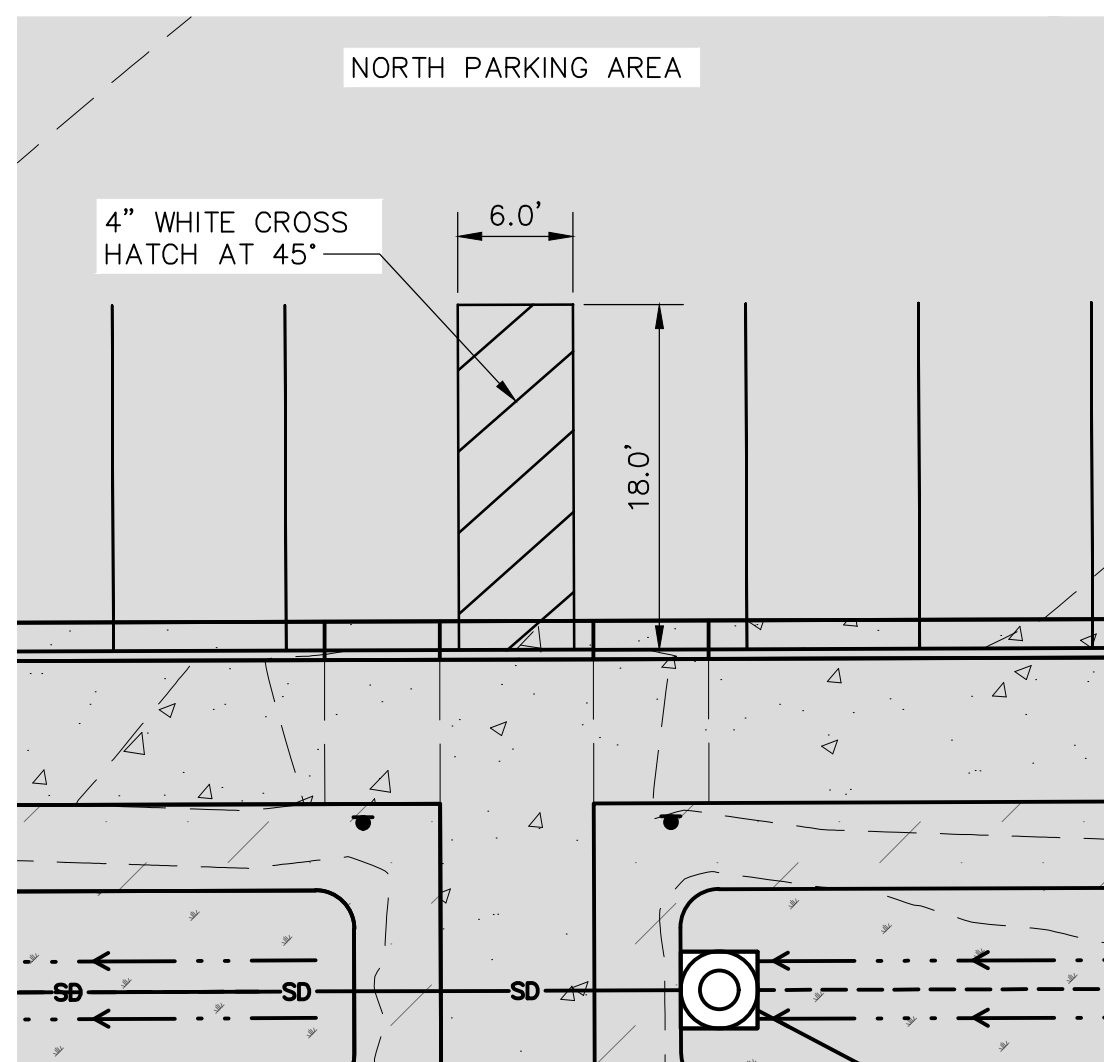
SIGNAGE DETAILS

DATE: APRIL 2021 GRID: SW 2431

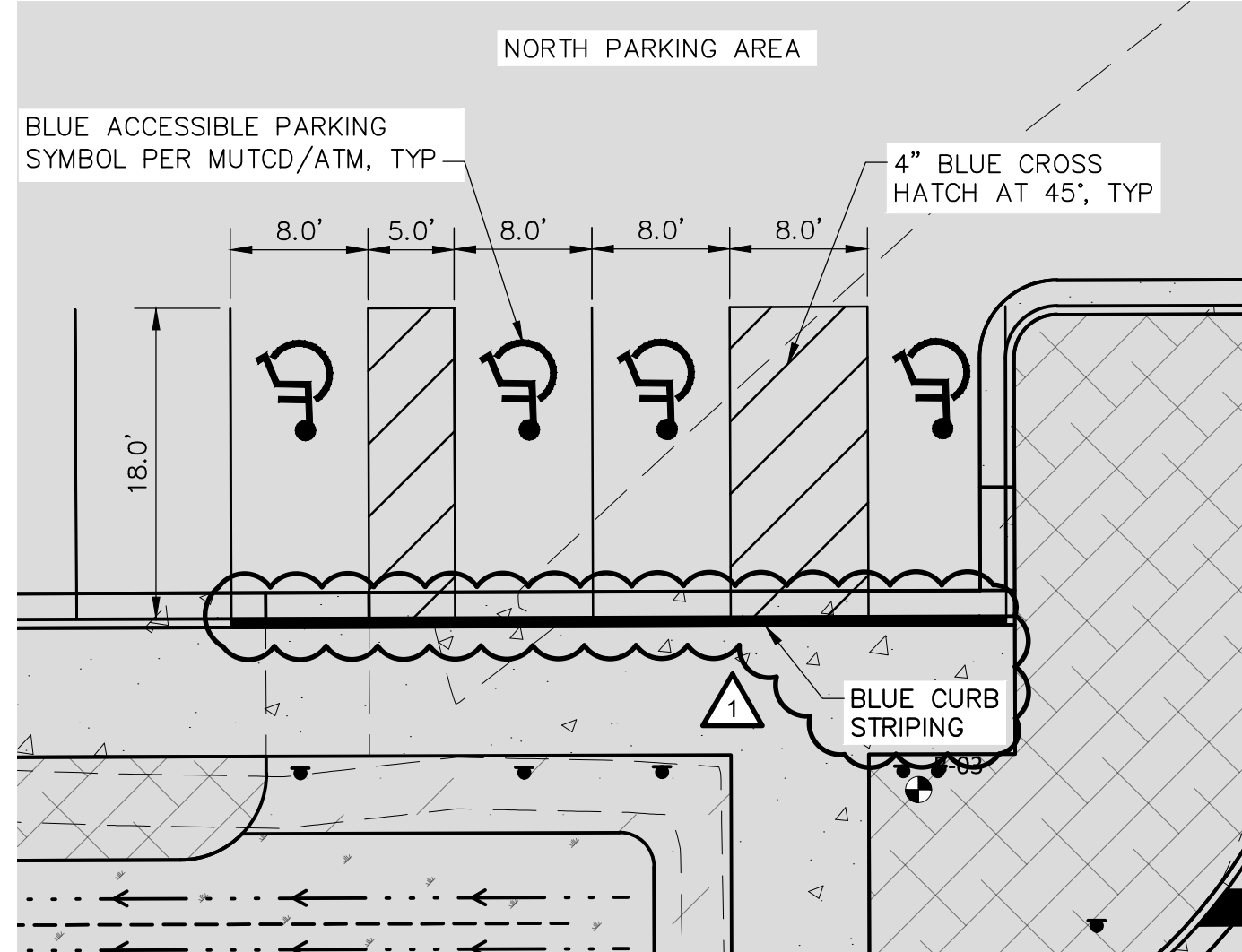
PROJ. ID.: WW.H7775

DWG
C7.9

SHEET 79 of 288

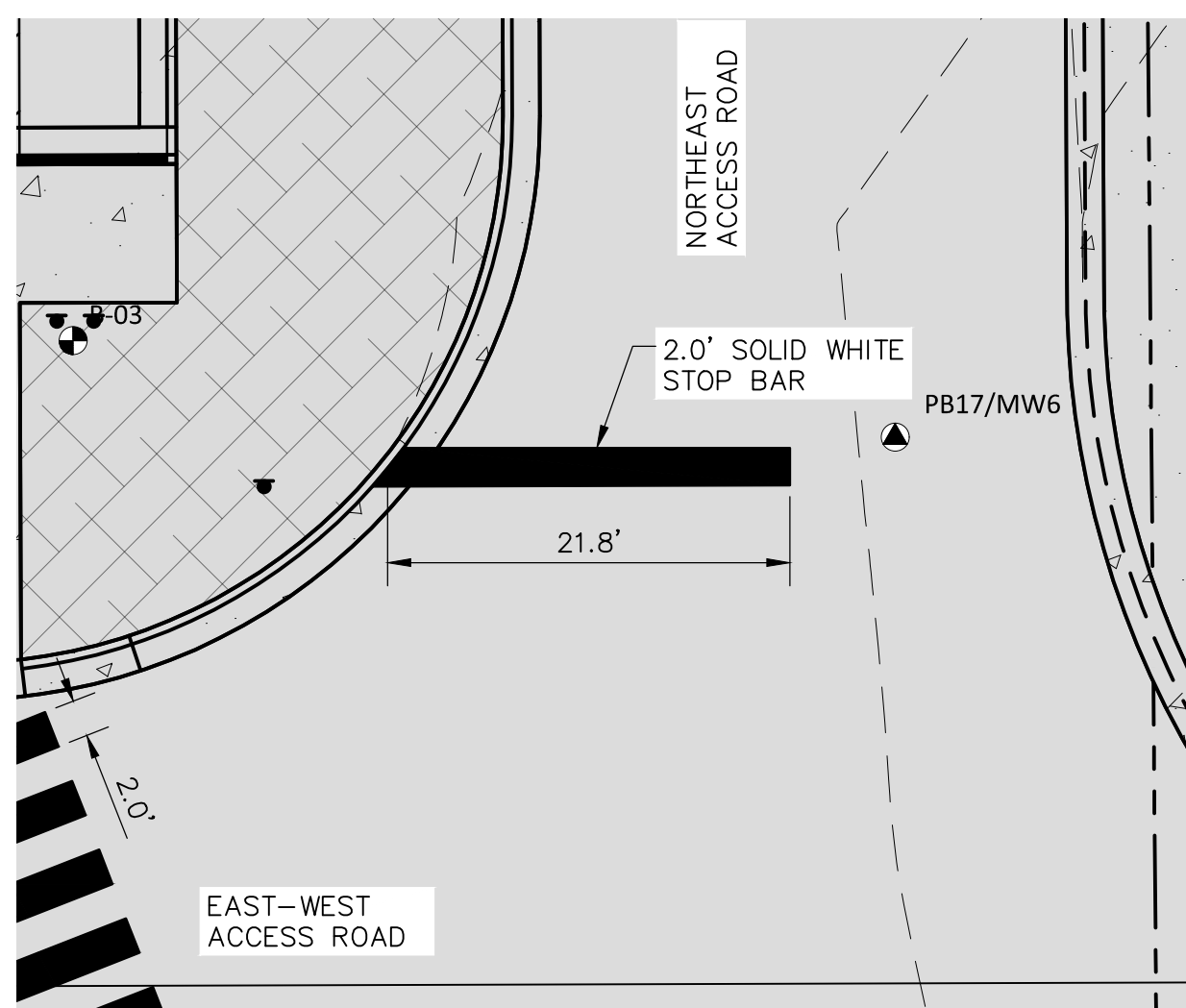


1 NORTH PARKING PEDESTRIAN ACCESS AISLE
C7.10 SCALE: NTS

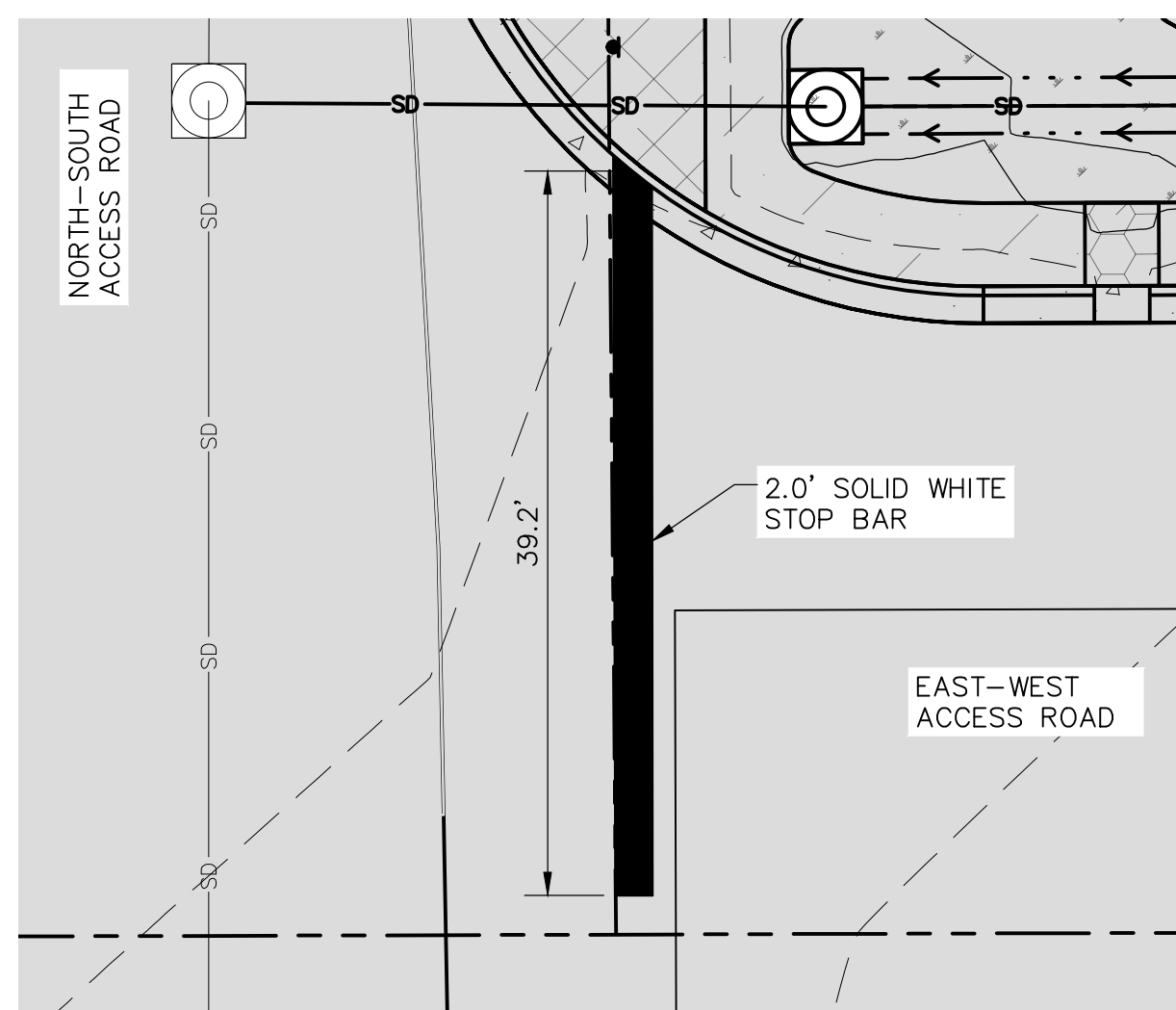


2 NORTH PARKING AREA ACCESSIBLE SPACES
C7.10 SCALE: NTS

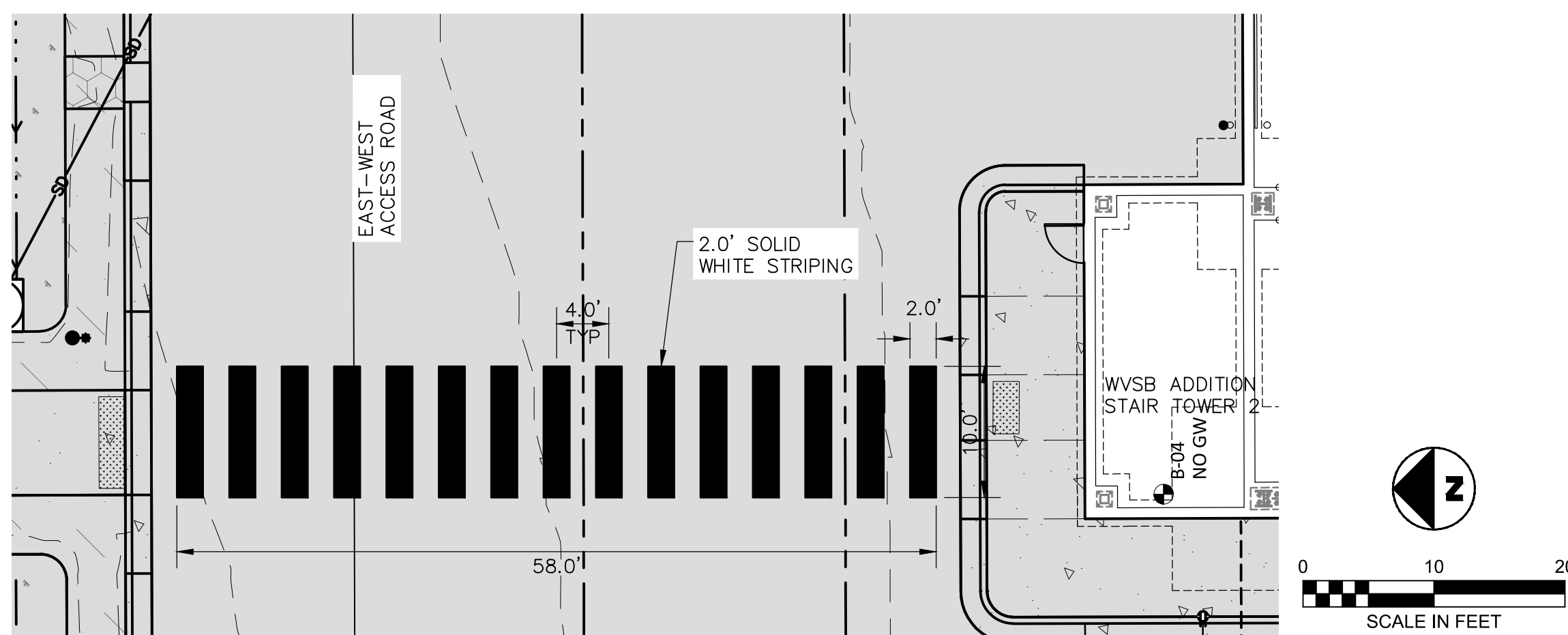
GENERAL STRIPING NOTES:
1. 4" WHITE UNLESS OTHERWISE NOTED, REFER TO THE ENLARGED PLANS FOR STRIPING LAYOUT.



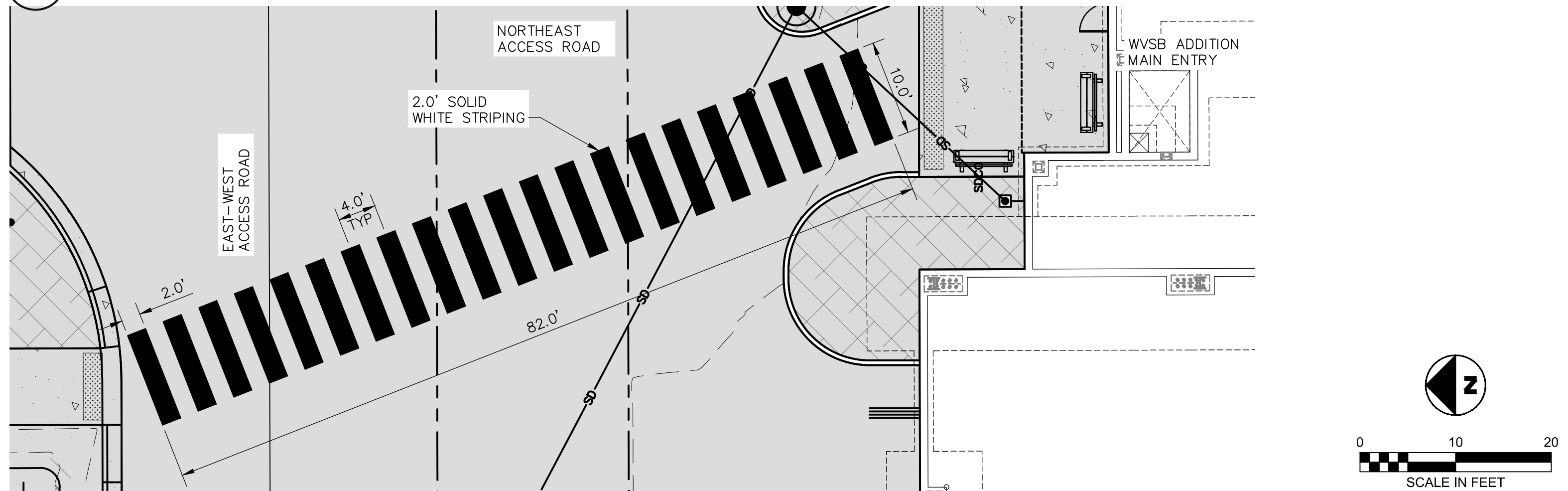
3 NORTHEAST ACCESS ROAD STOP BAR
C7.10 SCALE: NTS



4 EAST-WEST ACCESS ROAD STOP BAR
C7.10 SCALE: NTS



5 WEST CROSSWALK TO STAIR TOWER 2
C7.10 SCALE: NTS



6 EAST CROSSWALK TO MAIN ENTRY
C7.10 SCALE: NTS

REV	DATE	DESCRIPTION	BY
1	6/8/21	MOA PLAN REVIEW	SSM
REVISIONS			

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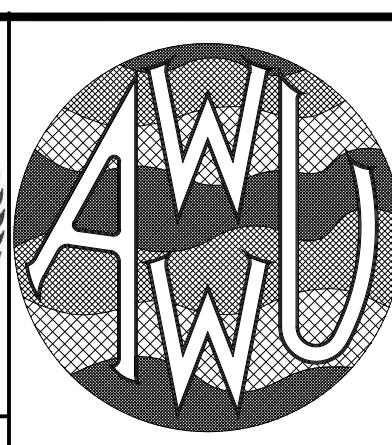
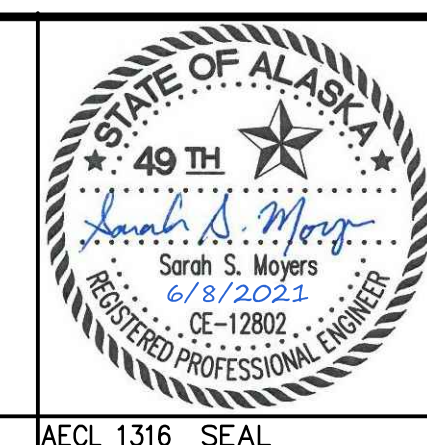
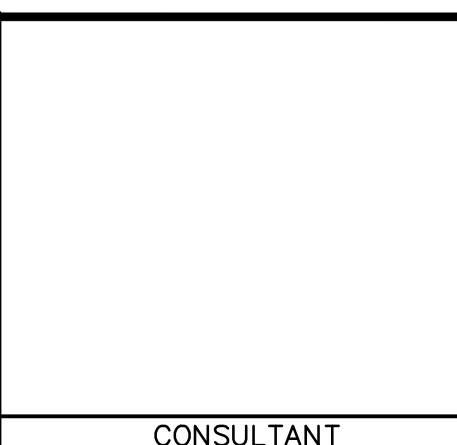
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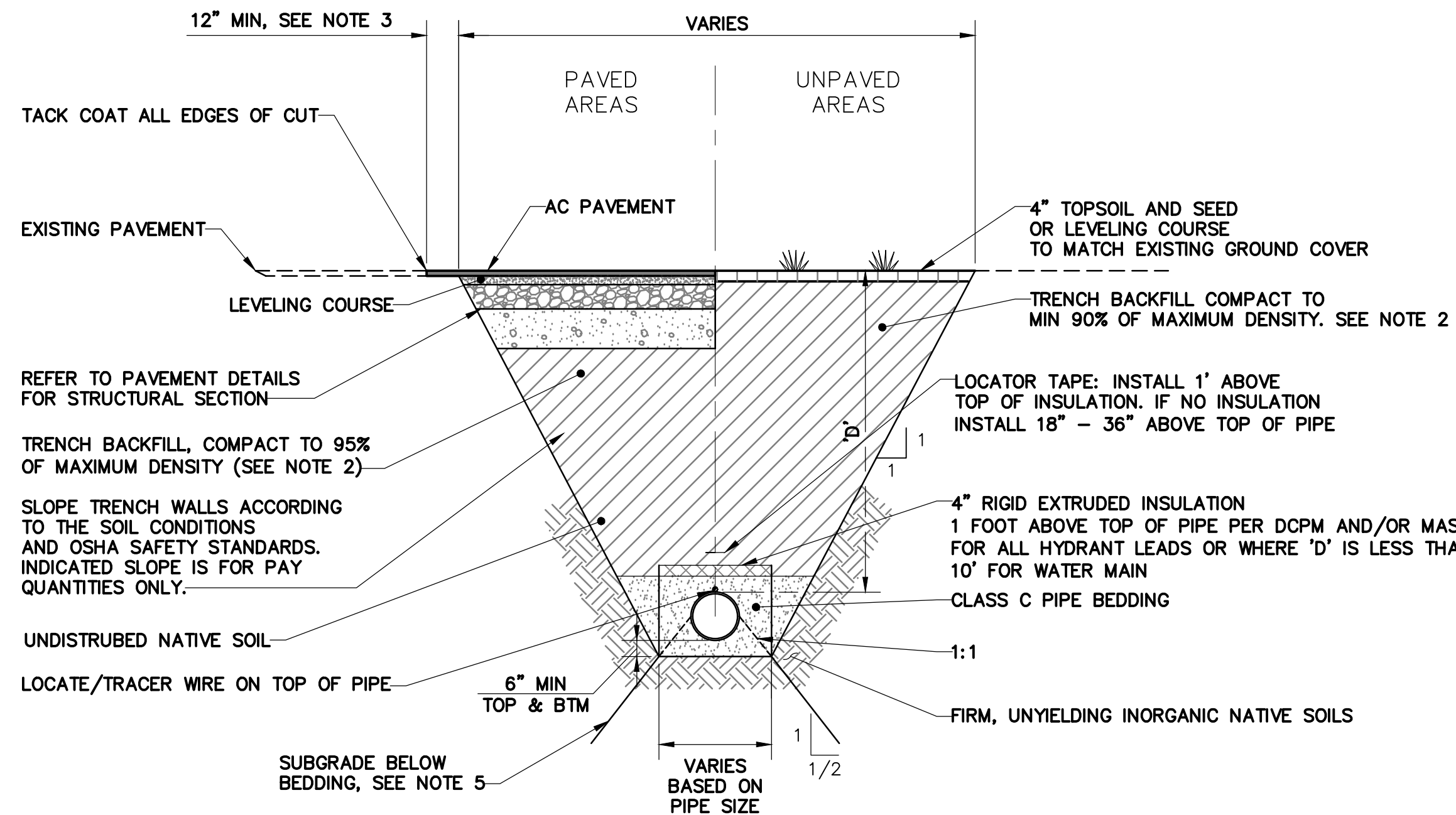
STRIPING DETAILS

DATE: APRIL 2021 GRID: SW 2431

PROJ. ID.: WW.H7775

DWG
C7.10

SHEET 80 of 288

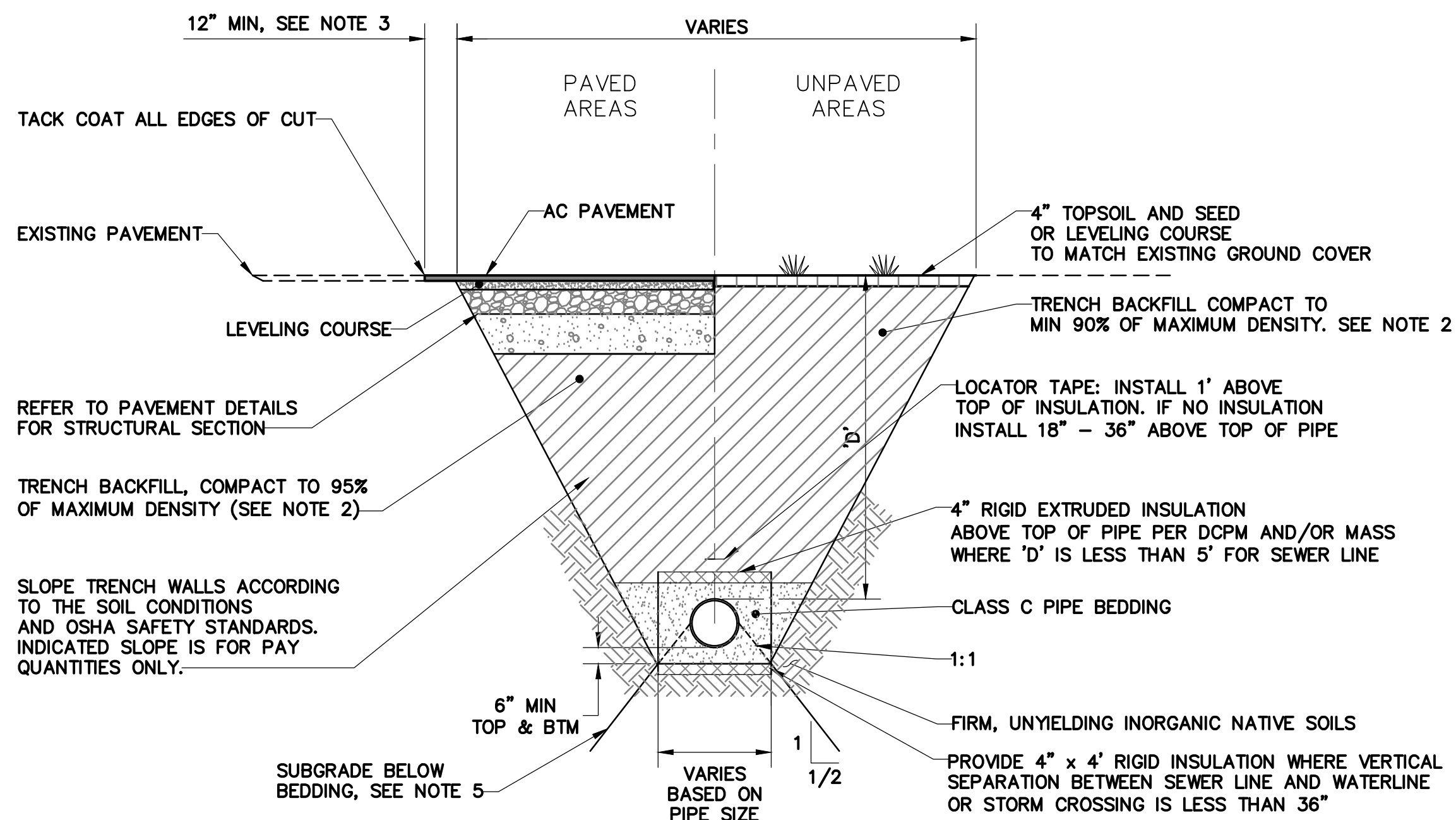


TRENCH SECTION NOTES

1. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE AND OSHA REGULATIONS AND REQUIREMENTS.
2. TRENCH BACKFILL SHALL BE NATIVE MATERIAL, MEETING TYPE III CLASSIFICATION (MINIMUM) AS APPROVED BY THE ENGINEER. NATIVE MATERIAL NOT MEETING TYPE III CLASSIFICATION SHALL BE REMOVED AND REPLACED WITH MATERIAL MEETING TYPE III CLASSIFICATION (MINIMUM). BACKFILL MATERIAL WITHIN ROADWAY PRISM SHALL HAVE 8" MAXIMUM ROCK SIZE.
 - a. TRENCH BACKFILL UNDER PAVED AREAS SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 12 INCHES AND COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY PER ASTM D-1557.
 - b. TRENCH BACKFILL UNDER NON-STRUCTURAL AREAS SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 18 INCHES AND COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY PER ASTM D-1557.
3. IN PREPARATION FOR AND IMMEDIATELY PRIOR TO PAVING, CONTRACTOR SHALL SAW CUT AND REMOVE AN ADDITIONAL 12" FROM EXISTING PAVEMENT EDGE. THE ENGINEER MAY REQUIRE MORE THAN A 12" ADDITIONAL CUT IF THE EXISTING PAVEMENT HAS BEEN LIFTED IN THE REMOVAL PROCESS, IF THE JOINT DOES NOT OCCUR ON UNDISTURBED MATERIAL, OR IF THE JOINT IS LOCATED WITHIN THE TRAVEL LANE. CUTS MAY BE MADE WITH A SAW.
4. REMOVE AND PROPERLY DISPOSE OF ALL ORGANIC MATERIALS IN ACCORDANCE WITH MASS SECTION 20.13.
5. SUBGRADE BELOW BEDDING PRISM SHALL BE CLEARED OF ALL DEBRIS AND ORGANIC MATERIAL. BACKFILL AND COMPACT EXCAVATED SUBGRADE IN ACCORDANCE WITH MASS SECTION 20.10 FURNISH FOUNDATION BACKFILL.

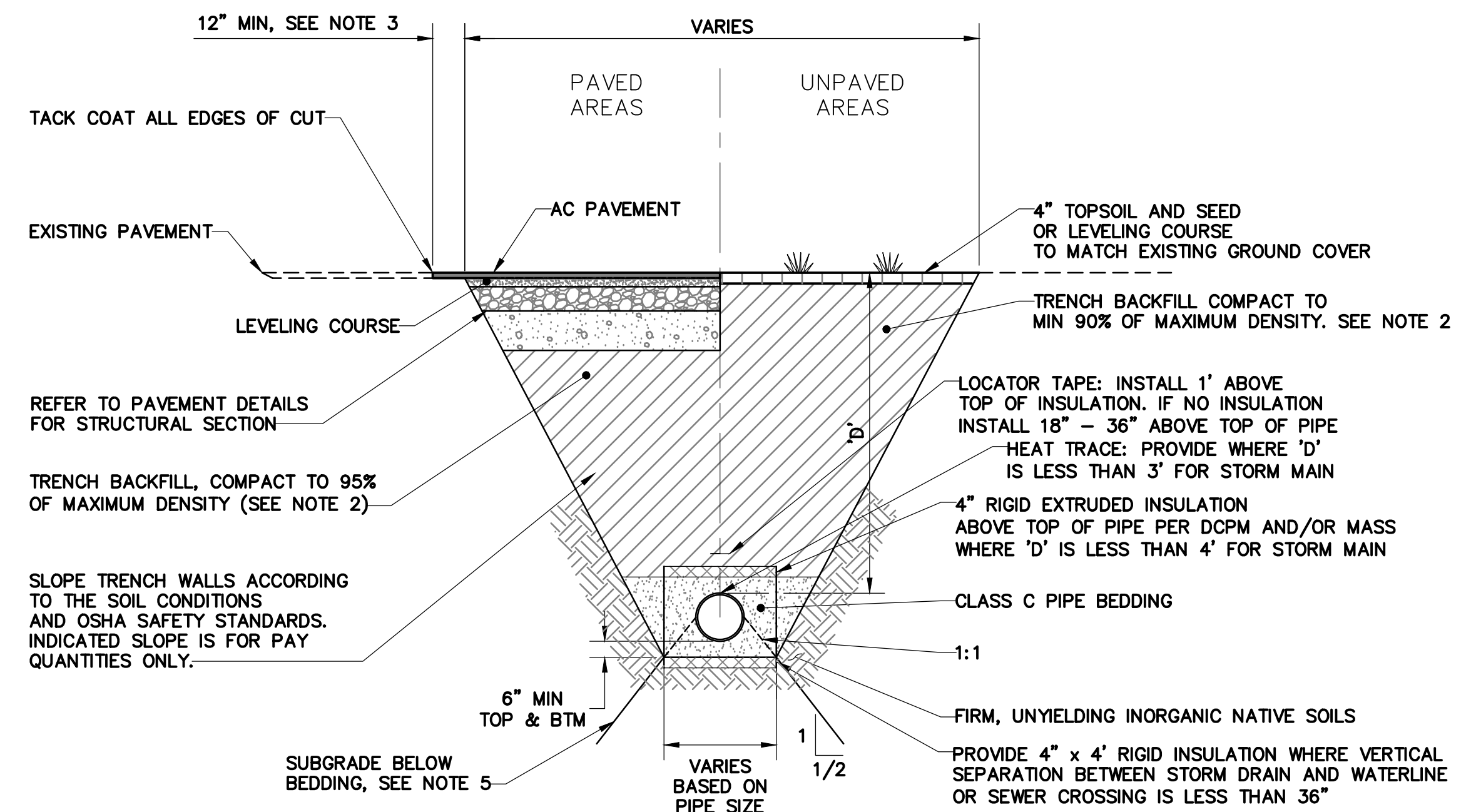
1 WATER LINE TRENCH SECTION

C8.1 SCALE: N.T.S.



2 SEWER LINE TRENCH SECTION

C8.1 SCALE: N.T.S.



3 STORM DRAIN TRENCH SECTION

C8.1 SCALE: N.T.S.

REV	DATE	DESCRIPTION	BY

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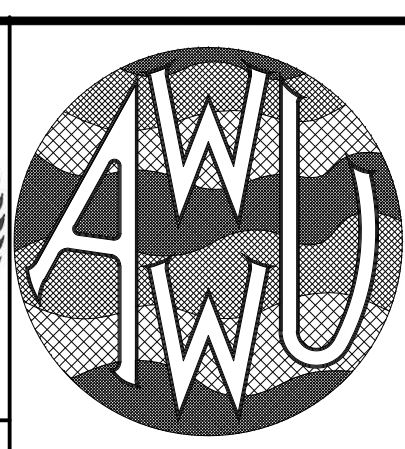
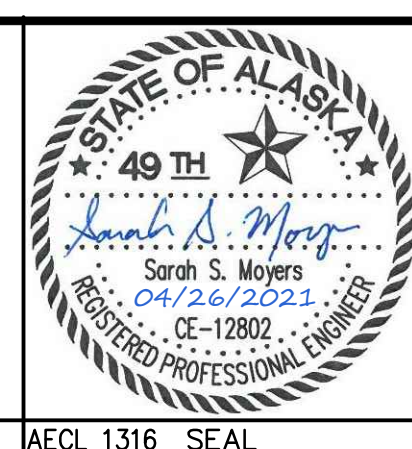
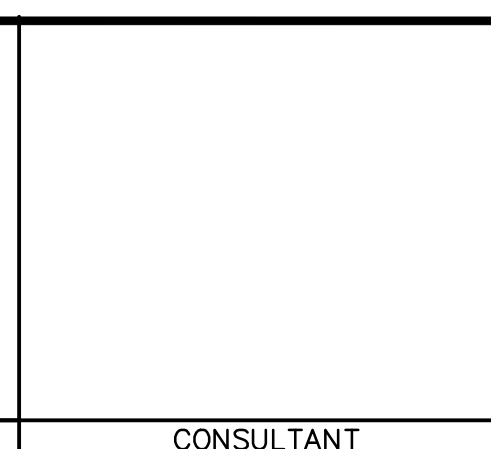
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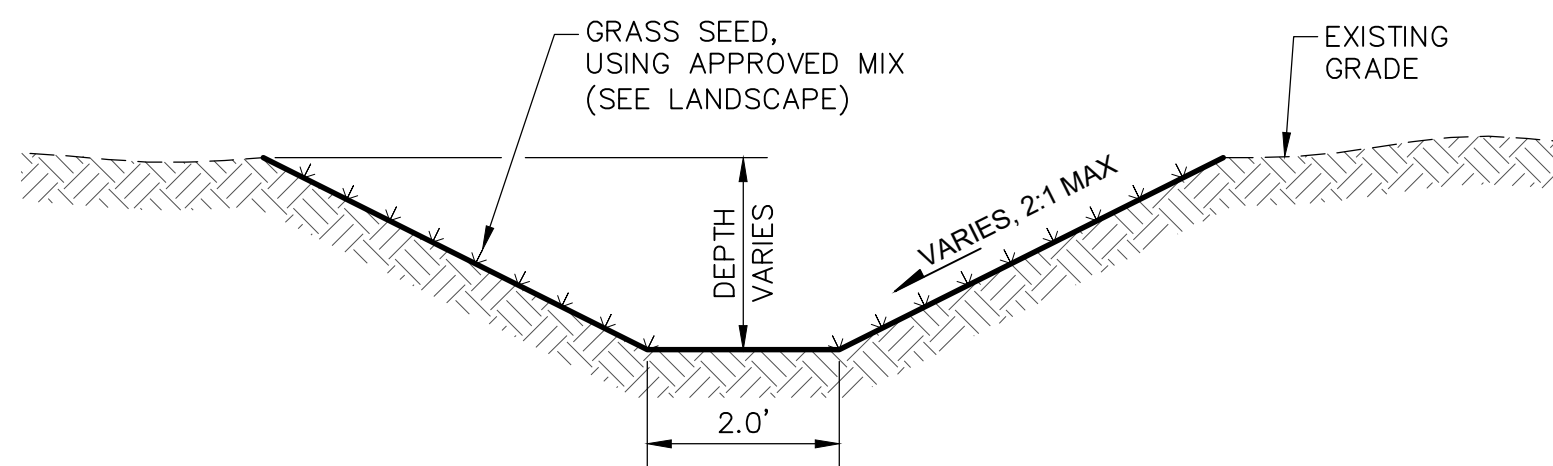
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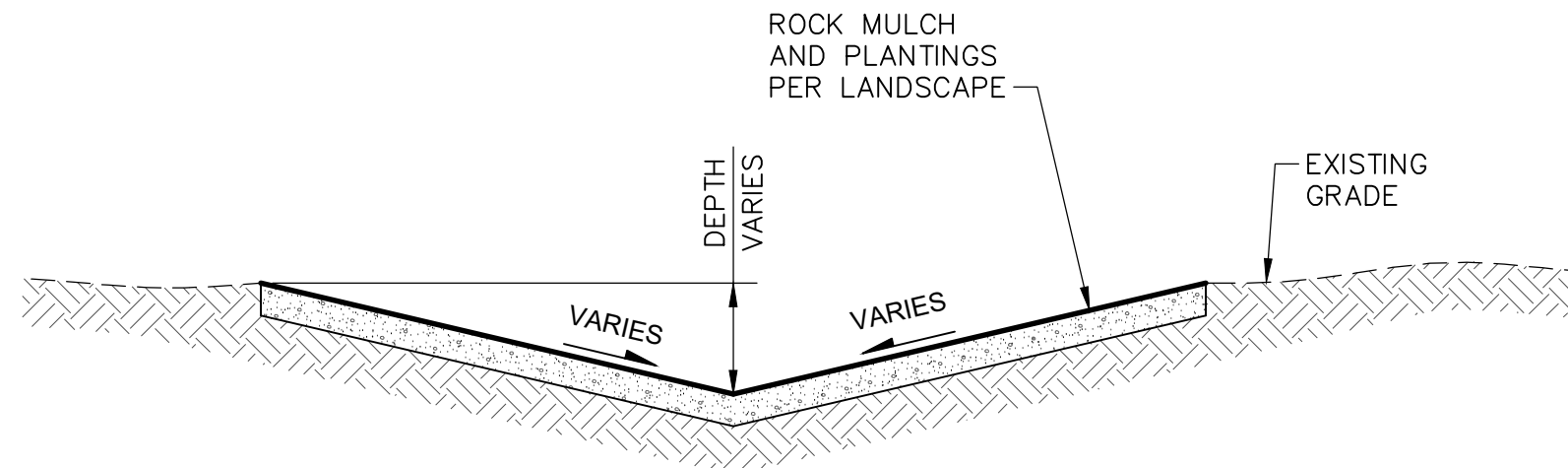
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		DWG C8.1
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT		
UTILITY TRENCH DETAILS		
HORZ SCALE: N/A VERT SCALE: N/A PROJ. ID.: WW.H7775	DATE: APRIL 2021 GRID: SW 2431	SHEET 81 of 288

VEGETATED SWALE NOTES

1. DO NOT COMPACT SOILS IN VEGETATED SWALES. CONTRACTOR SHALL ENSURE THAT CONSTRUCTION EQUIPMENT DOES NOT DRIVE OVER THE SOILS ONCE PLACED.
2. CONTRACTOR SHALL ENSURE THAT SEDIMENT FROM CONSTRUCTION ACTIVITIES IS NOT ALLOWED TO WASH INTO THE VEGETATED SWALES AS THE SITE IS DEVELOPED.

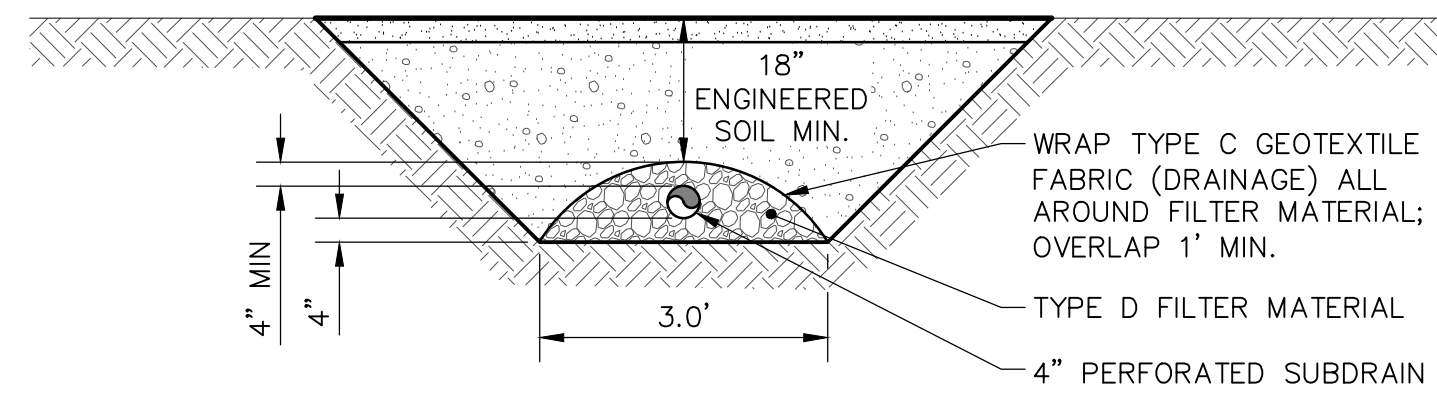


1 VEGETATED DRAINAGE SWALE DETAIL
C8.4 SCALE: N.T.S.

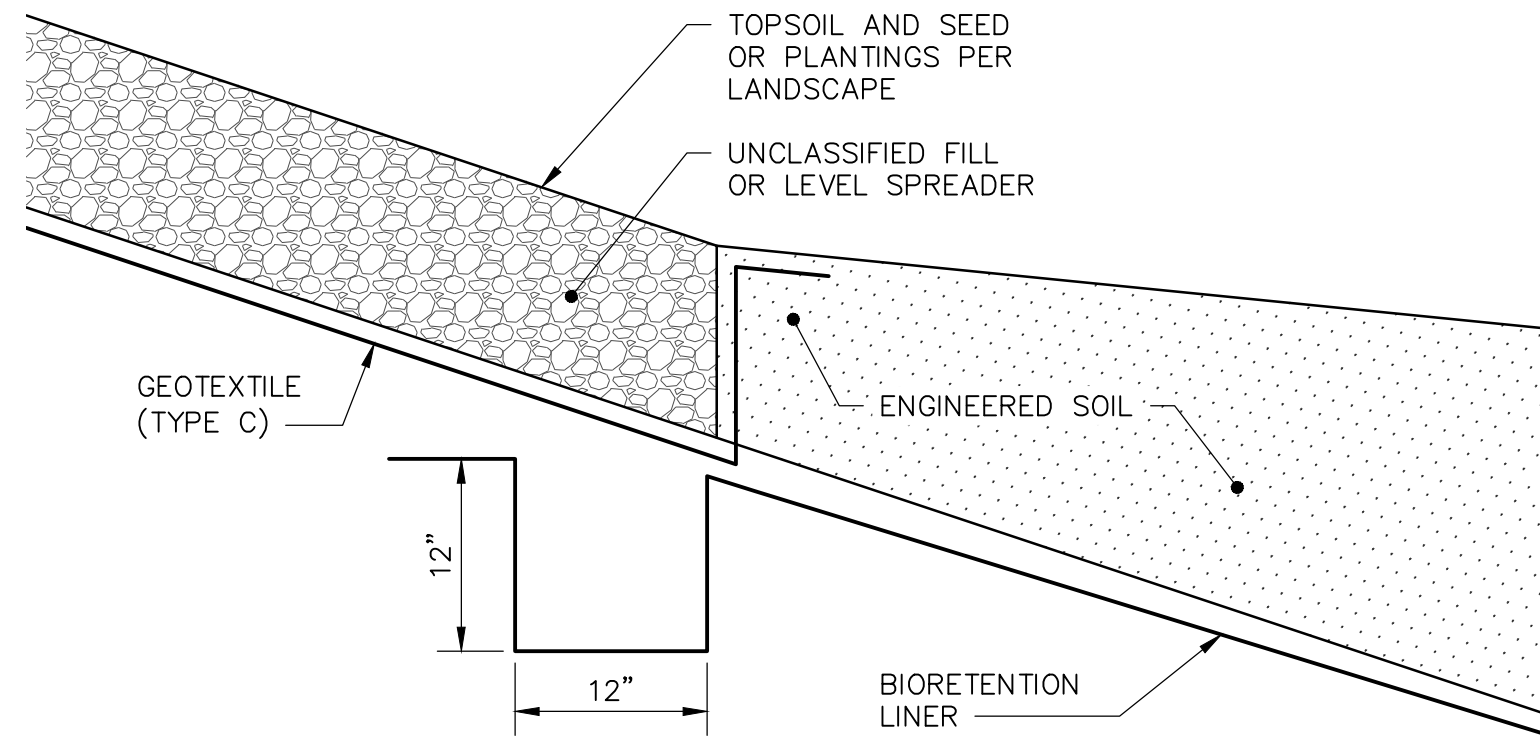


2 LANDSCAPED DRAINAGE SWALE DETAIL
C8.4 SCALE: N.T.S.

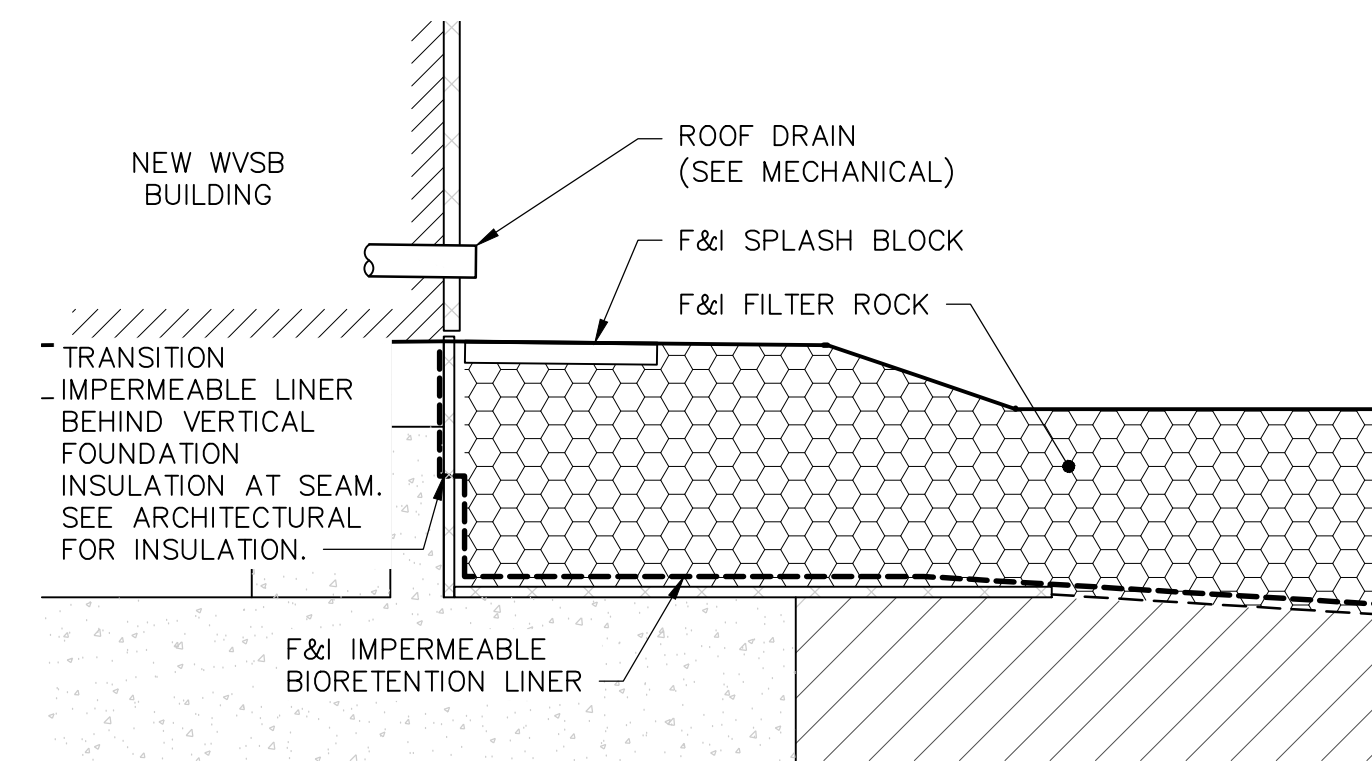
NOTES:
1. USE 45°, CLASS 2 PERFORATION PATTERN



3 BIORETENTION SUBDRAIN DETAIL
C8.4 SCALE: N.T.S. MODIFIED MASS 55-3



4 BIORETENTION LINER ANCHOR TRENCH DETAIL
C8.4 SCALE: N.T.S.



5 BIORETENTION LINER ANCHOR TRENCH DETAIL
C8.4 SCALE: N.T.S.

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

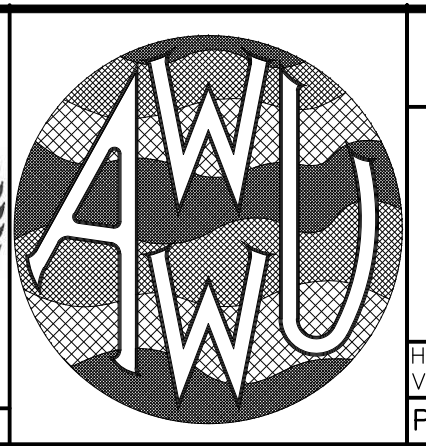
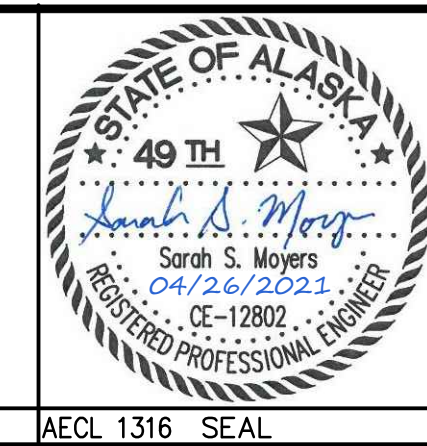
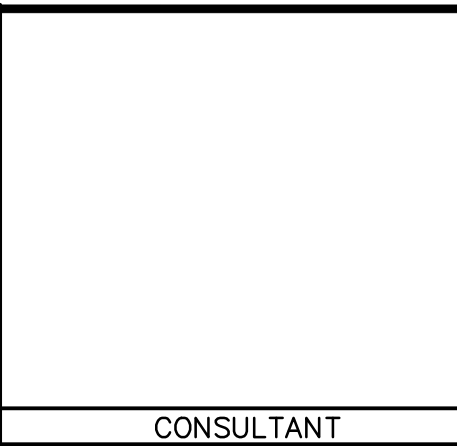
1. DATA PROVIDED BY: _____
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BY: _____

2. DATA TRANSFERRED BY: _____
COMPANY: _____
DATE: _____

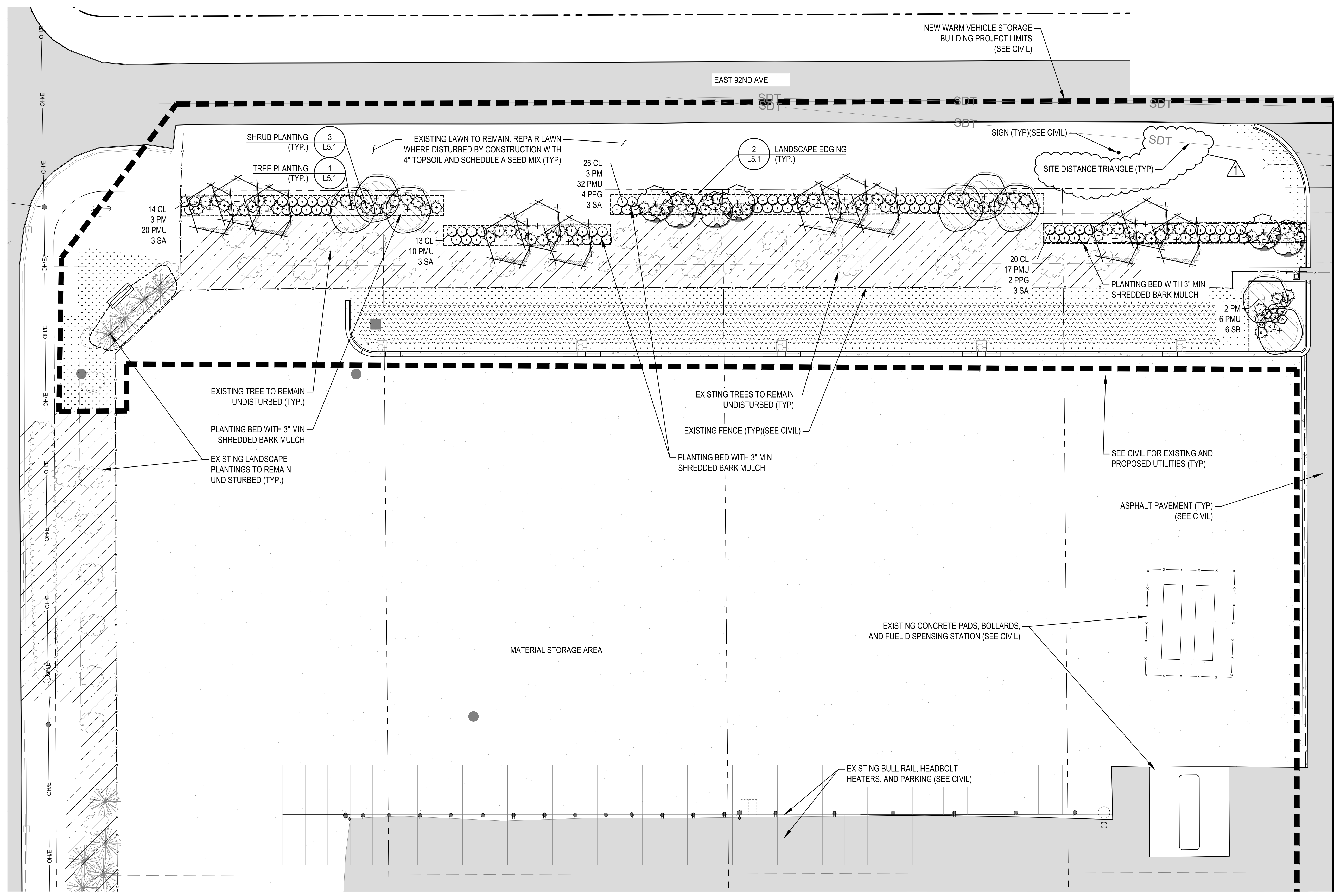
3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
DATA TRANSFER CHECKED BY: _____
DATE: _____ TITLE: _____
BY: _____

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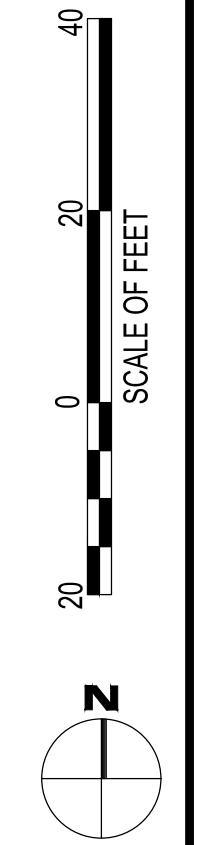
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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		DWG C8.4
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT		
DRAINAGE DETAILS		SHEET 84 of 288
HORIZ SCALE: N/A VERT SCALE: N/A	DATE: APRIL 2021 GRID: SW 2431 PROJ. ID.: WW.H7775	



MATCHLINE: SEE SHEET L4.2



VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY
1	6/8/21	MOA PLAN REVIEW	MB

REVISIONS

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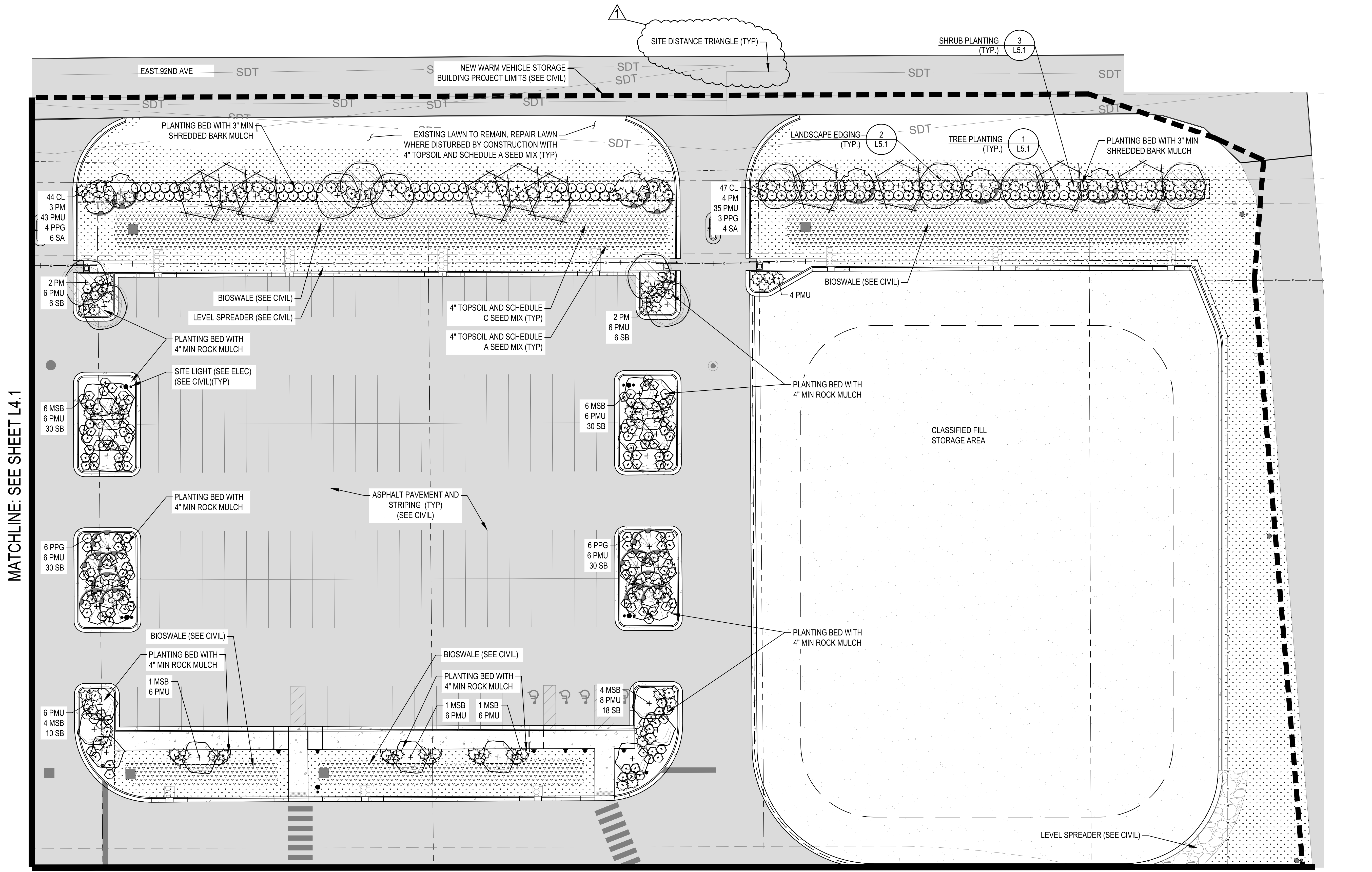
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Anchorage, AK 99518 (907) 677-8220
PRIME CONSULTANT

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ANCHORAGE, ALASKA 99503
(907) 561-5780
CORPORATE NO. AEOCC219
WWW.BETTISWORTHNORTH.COM
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49th Anniversary
MARK M. KIMERER
GOVERNOR
SEAL

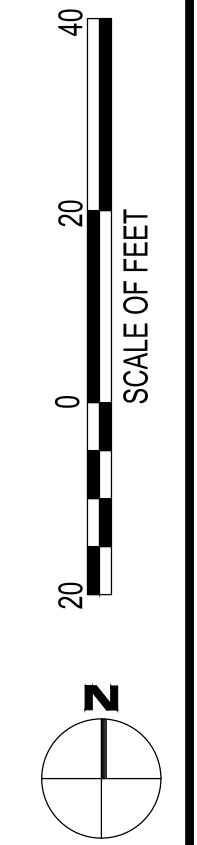
AWWU

MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
LANDSCAPE PLAN ENLARGEMENT
DWG L4.1
HORZ. SCALE: 1"=20'
VERT. SCALE: N/A
DATE: APRIL 2021
GRID: SW 2431
PROJ. ID.: WW.H7775
SHEET 86 of 288



MATCHLINE: SEE SHEET L4.1

MATCHLINE: SEE SHEET L4.3



REV	DATE	DESCRIPTION	BY
1	6/8/21	MOA PLAN REVIEW	MB
REVISIONS			

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

LANDSCAPE PLAN ENLARGEMENT

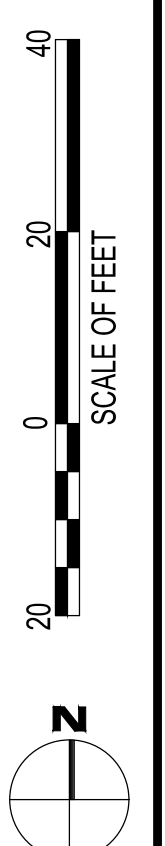
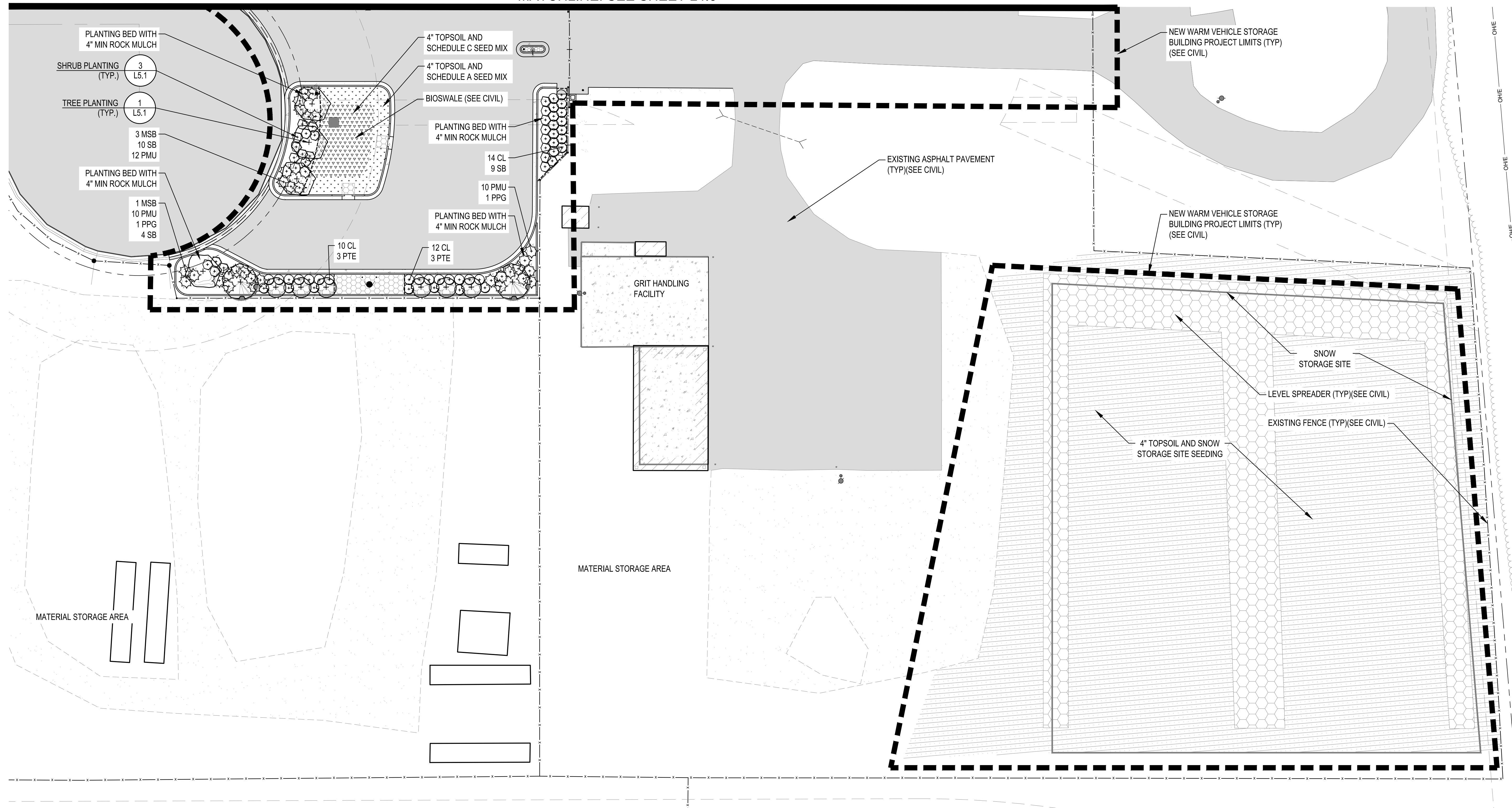
HORIZ. SCALE: 1"=20'
 VERT. SCALE: N/A
 DATE: APRIL 2021
 GRID: SW 2431
 PROJ. ID.: WW.H7775

DWG L4.2

SHEET 87 of 288

MATCHLINE: SEE SHEET L4.3

AWWU PLAN SET
NO. 10771



VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

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 DATE: _____ TITLE: _____
 BY: _____

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 COMPANY: _____
 DATE: _____

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 BY: _____

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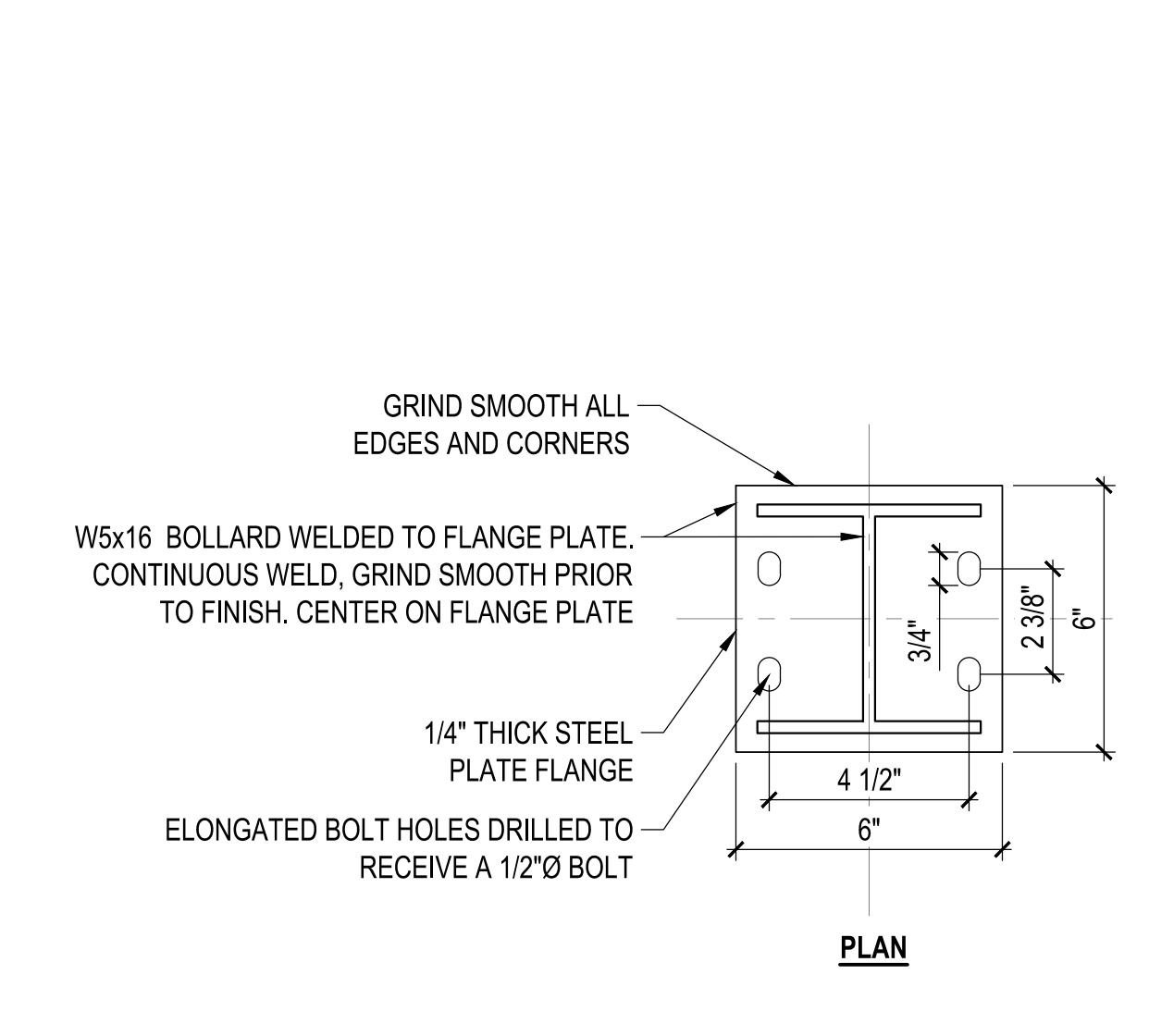
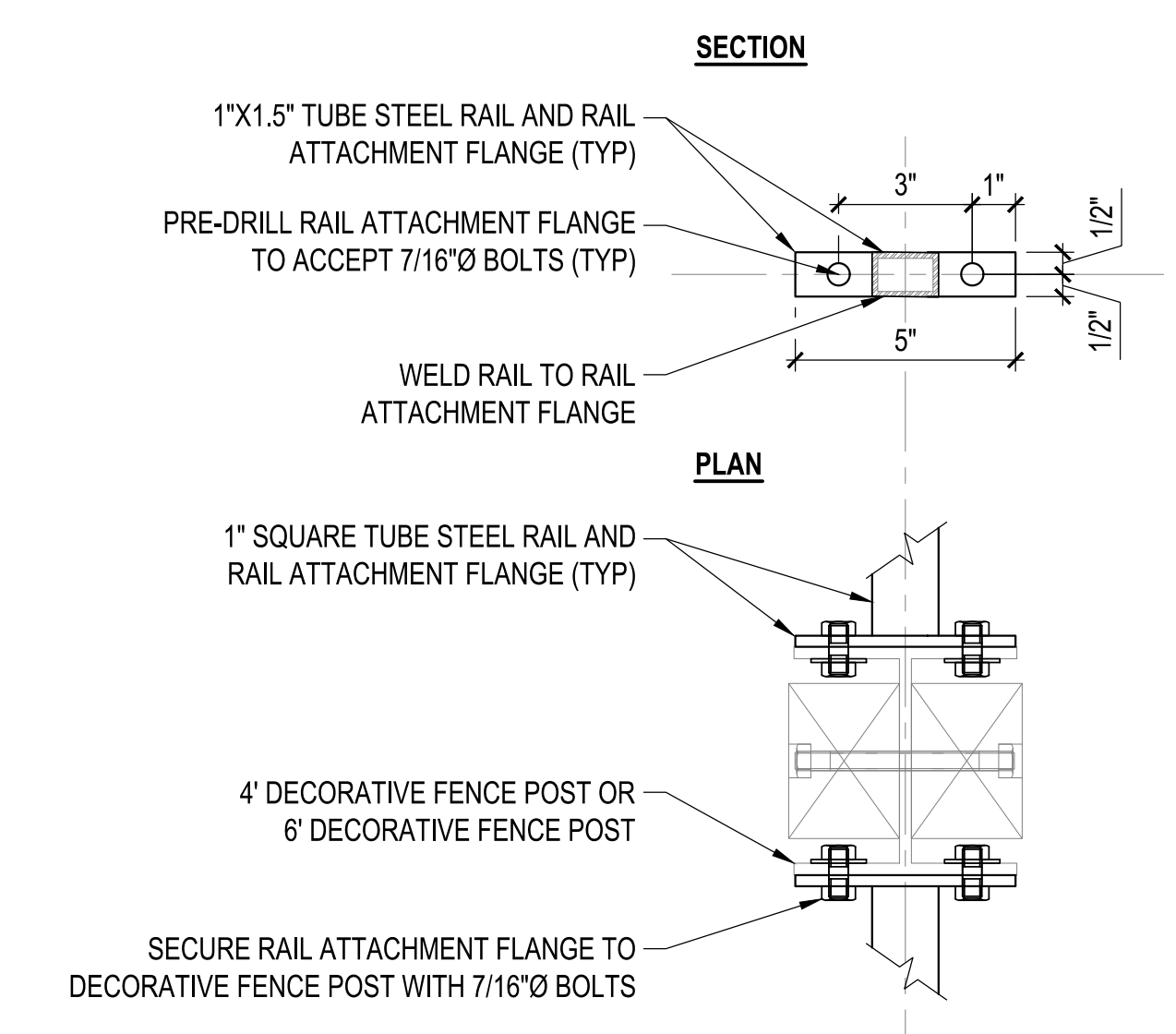
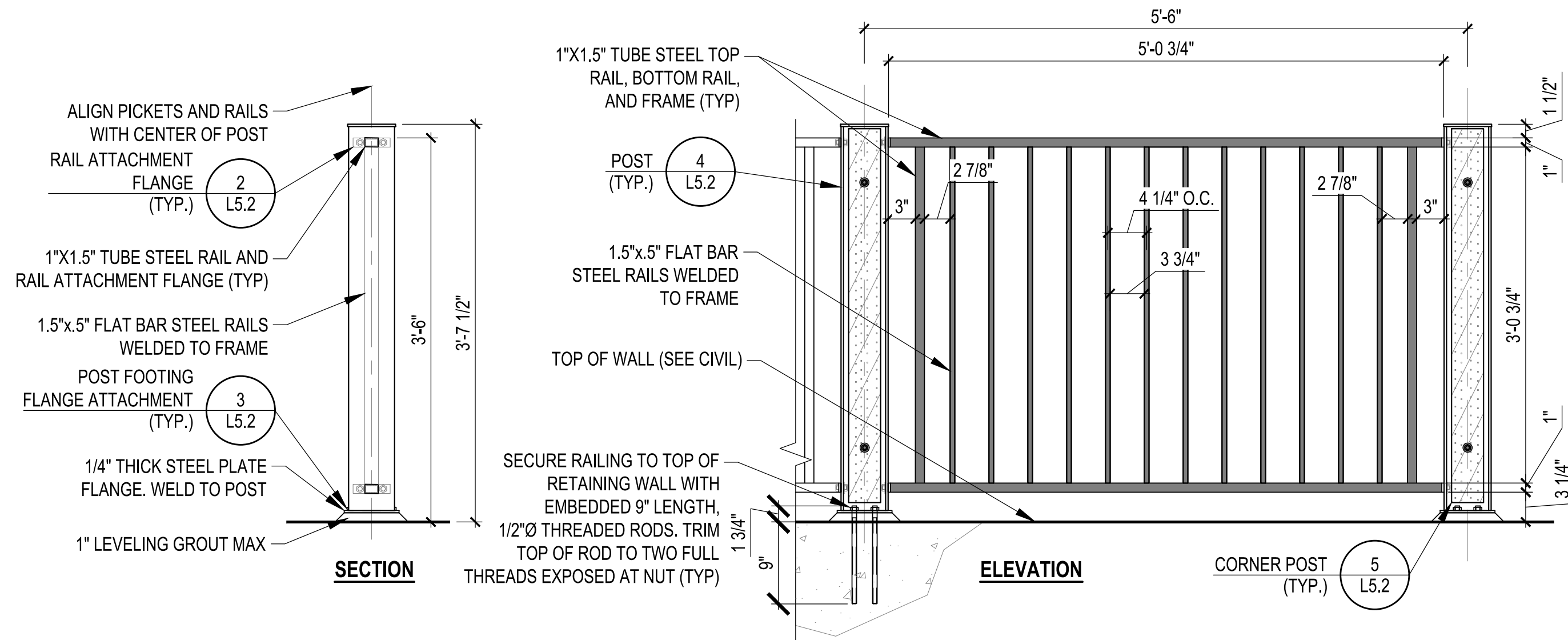
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

LANDSCAPE PLAN ENLARGEMENT

DWG L4.4

HORIZ. SCALE: 1"=20'
 VERT. SCALE: N/A
 DATE: APRIL 2021 GRID: SW 2431
 PROJ. ID.: WW.H7775

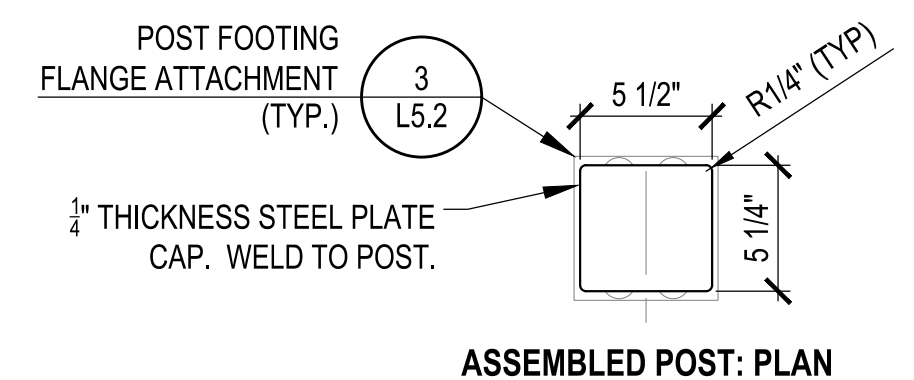
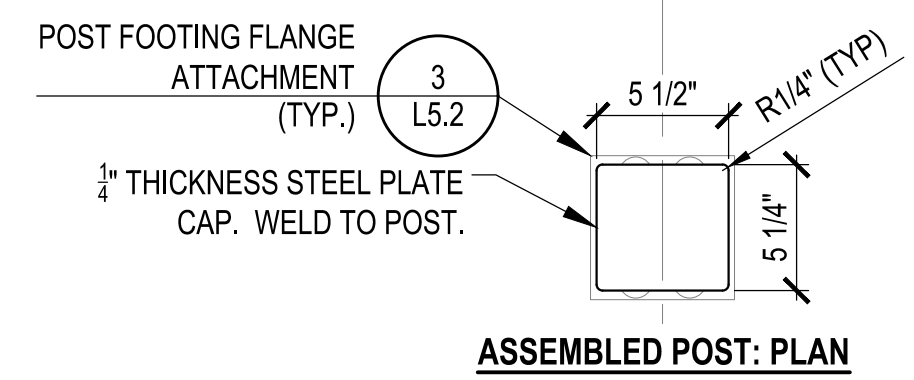
SHEET 89 of 288



1 FALL PROTECTION RAILING
L5.2 NTS

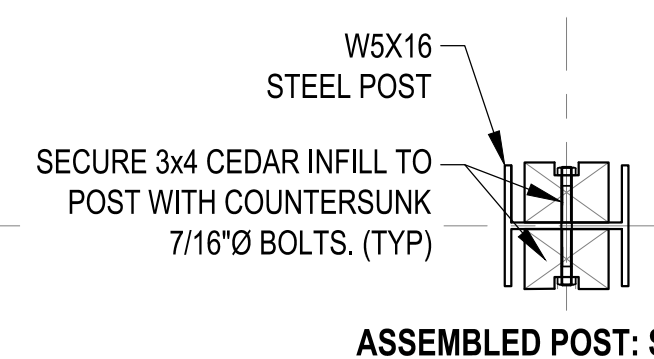
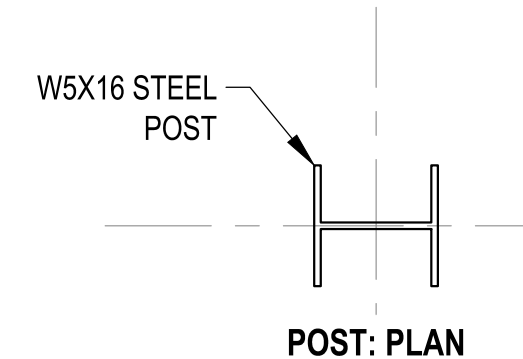
2 RAIL ATTACHMENT FLANGE
L5.2 NTS

3 POST FOOTING FLANGE ATTACHMENT
L5.2 NTS



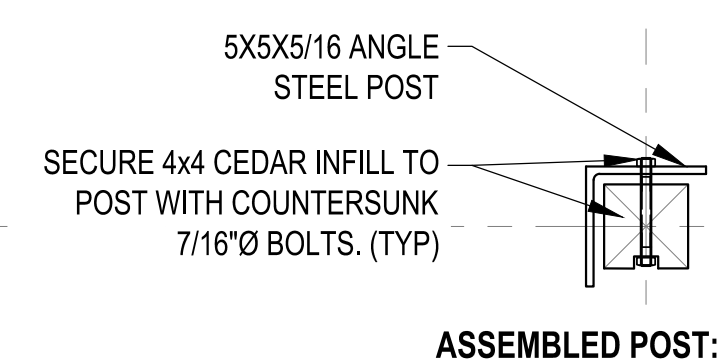
ASSEMBLED POST: PLAN

ASSEMBLED POST: PLAN

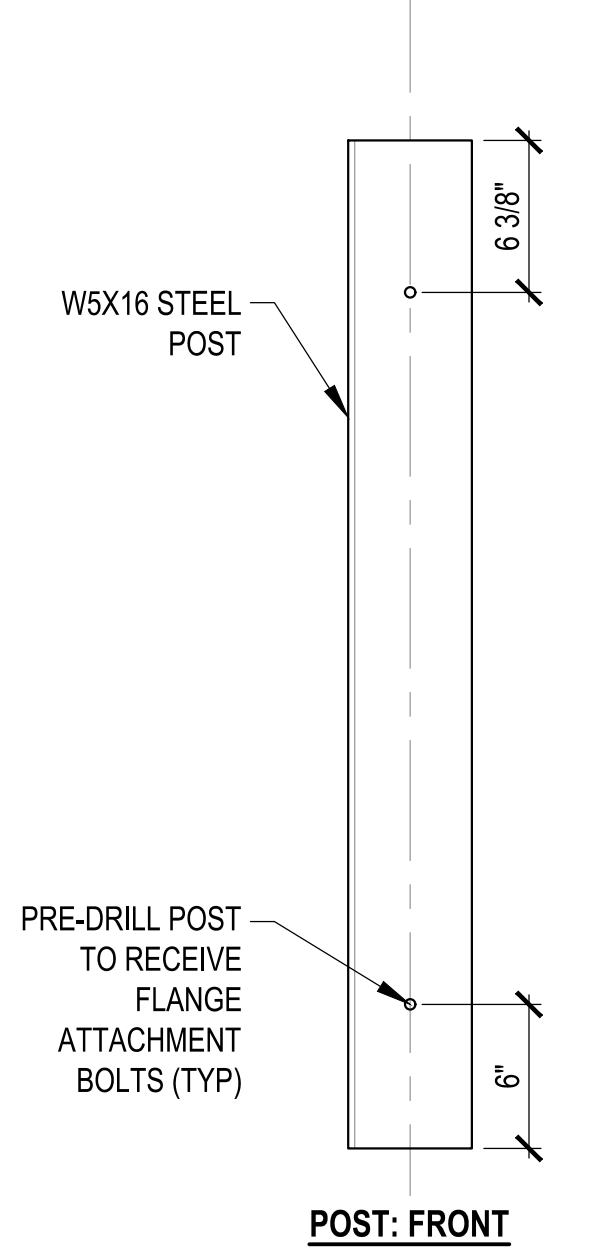
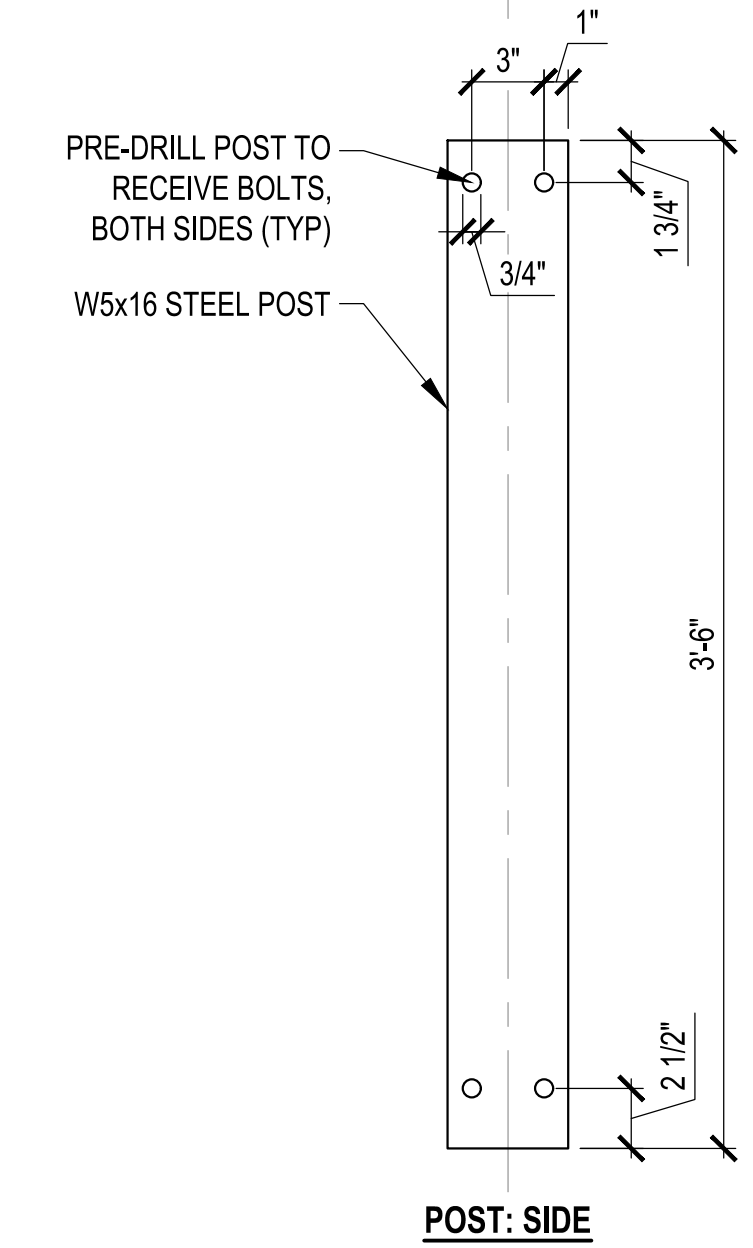


POST: PLAN

ASSEMBLED POST: SECTION

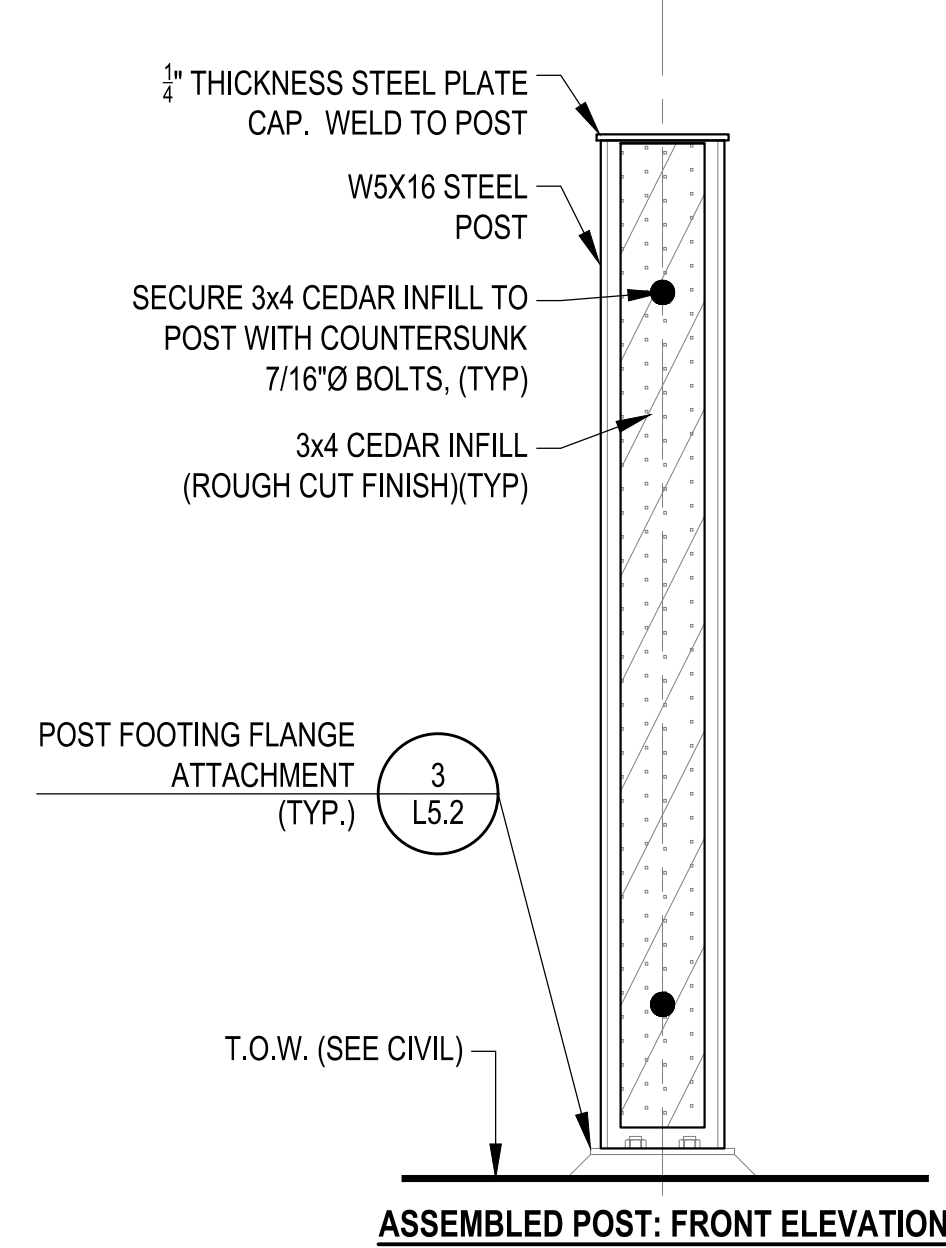


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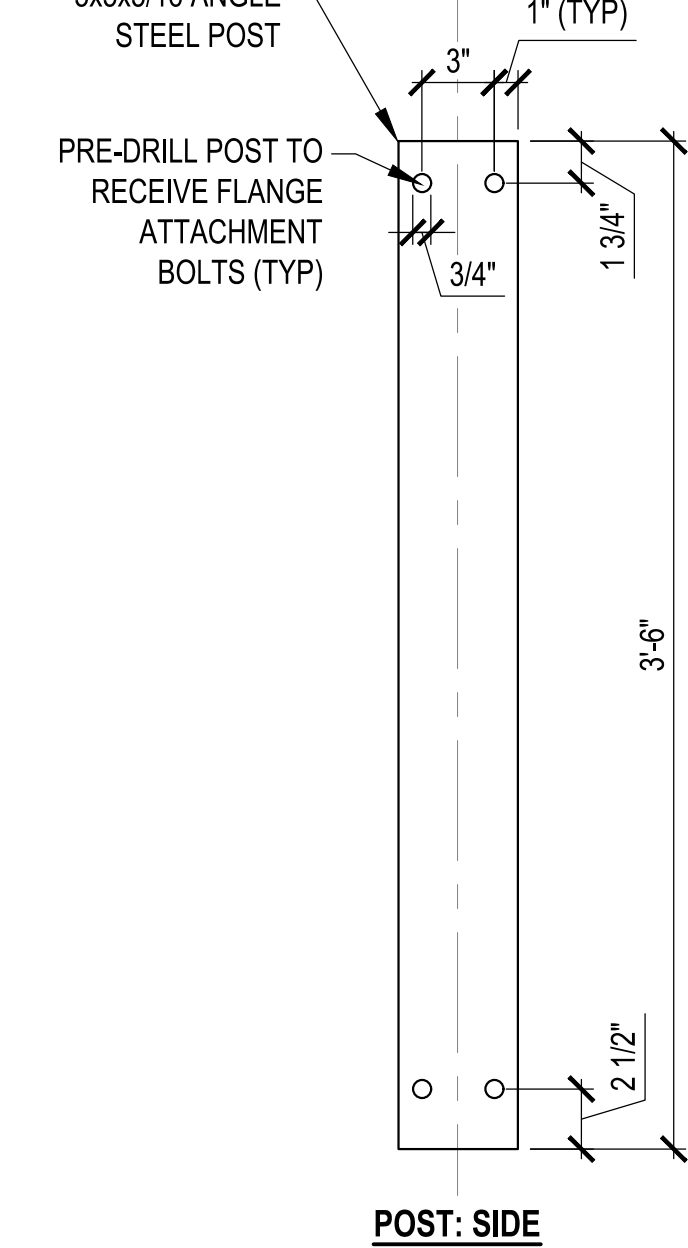


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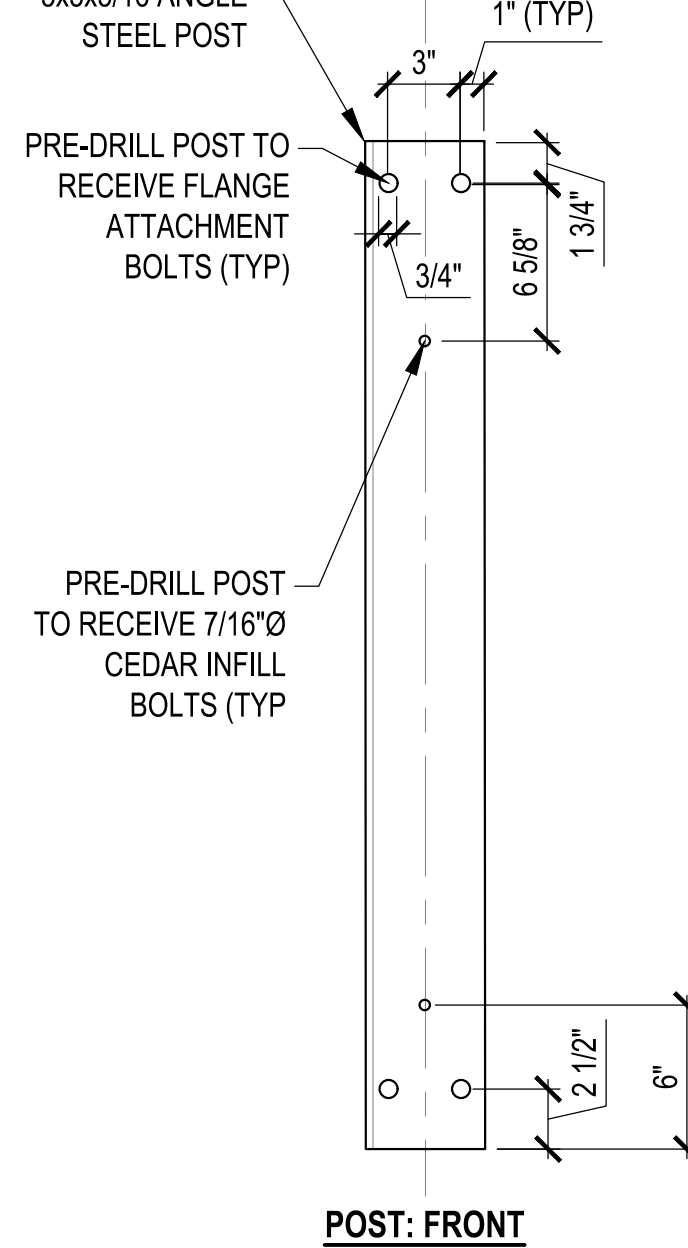
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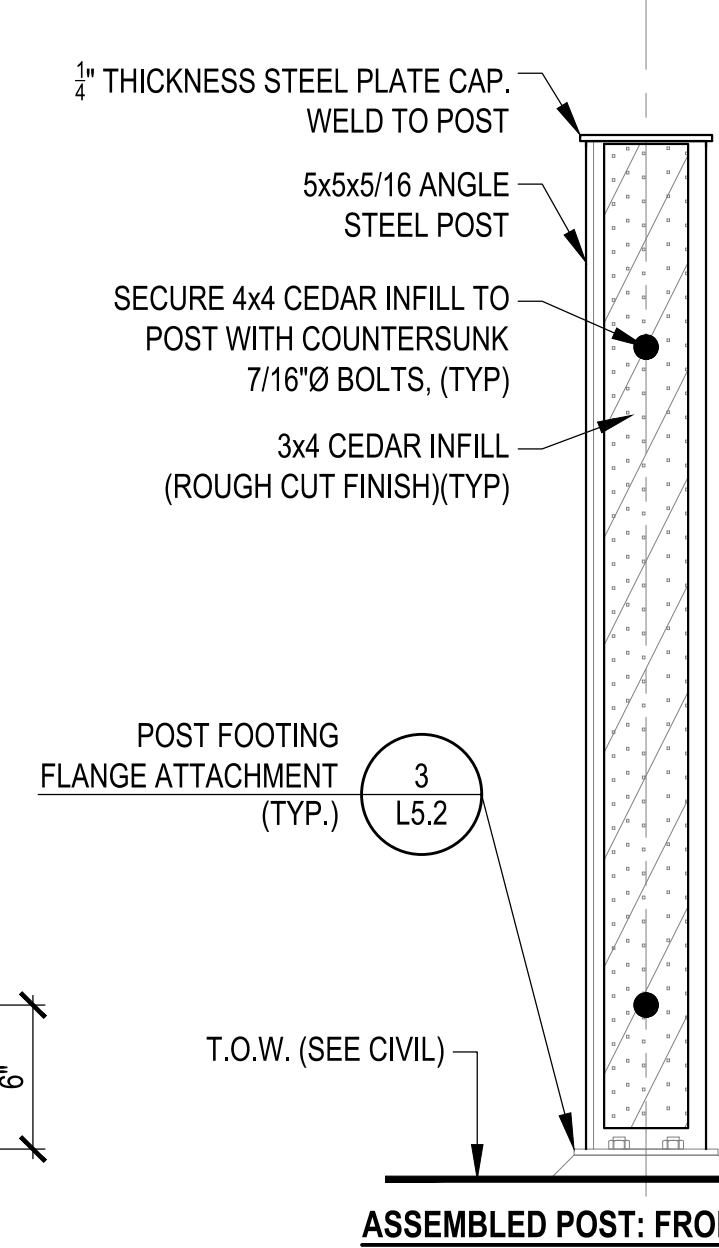
ASSEMBLED POST: FRONT ELEVATION



POST: SIDE



POST: FRONT



ASSEMBLED POST: FRONT ELEVATION

4 POST
L5.2 NTS

5 CORNER POST
L5.2 NTS

- FALL PROTECTION RAILING GENERAL NOTES:**
- CONTRACTOR TO FIELD VERIFY NUMBER OF POSTS AND PANELS AND PLACEMENT OF RAILING ON WALL WITH ENGINEER PRIOR TO FABRICATION.
 - ALL COMPONENTS TO BE INSTALLED LEVEL AND PLUMB.
 - GRIND SMOOTH ALL EDGES AND WELDS.
 - ALL STEEL COMPONENTS TO BE POWDER COATED SIGNAL BLACK TO MATCH RAL 9004.
 - ALL FASTENERS AND HARDWARE TO BE POWDER COATED SIGNAL BLACK TO MATCH RAL 9004.

REV	DATE	DESCRIPTION	BY

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DATA TRANSFER CHECKED BY: _____
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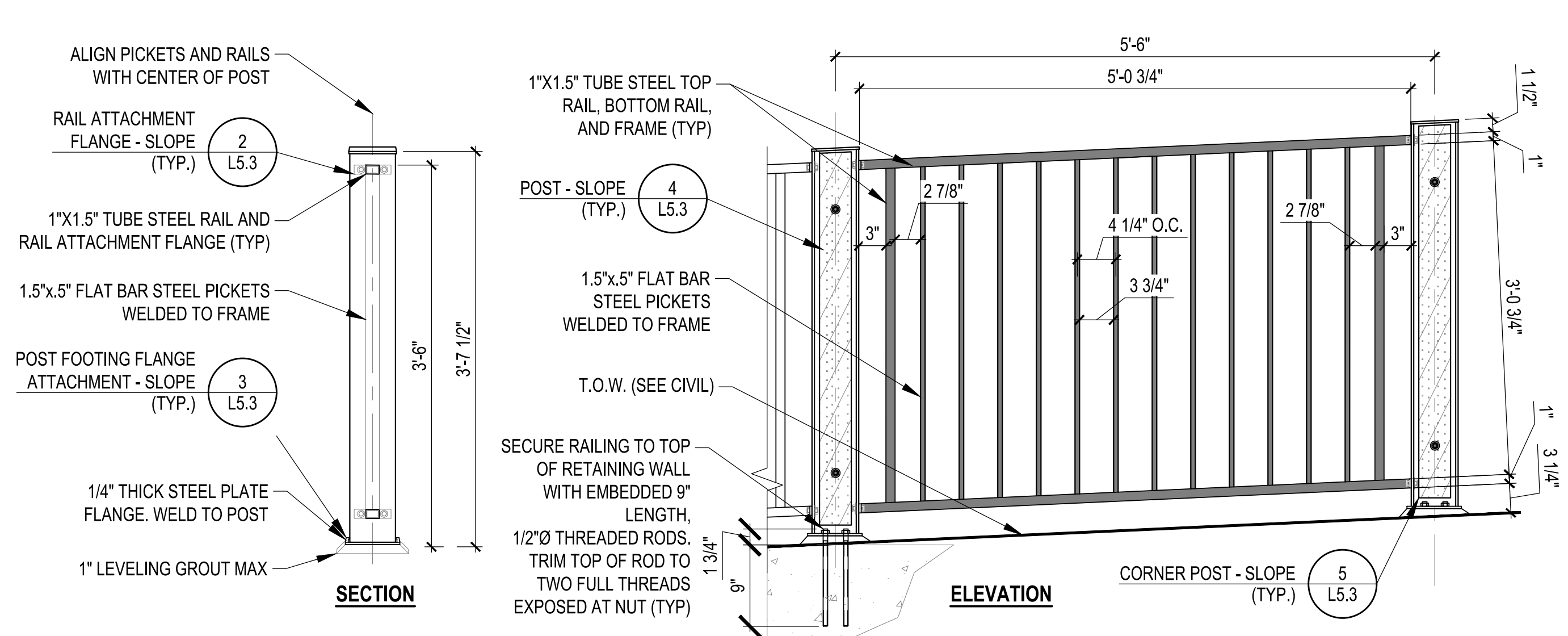
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

FALL PROTECTION FENCE DETAILS

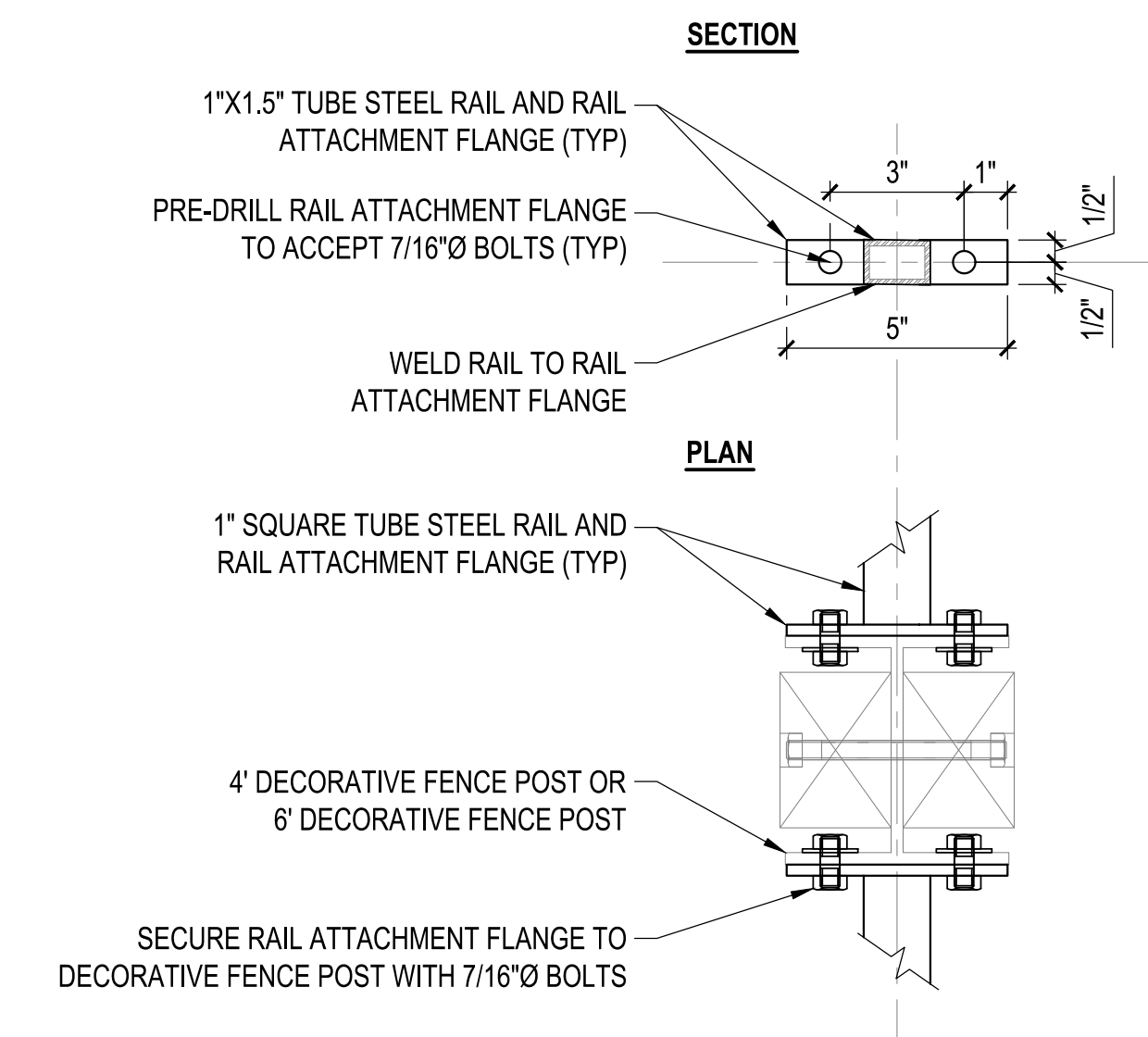
L5.2

HORIZ. SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT. SCALE: N/A
PROJ. ID.: WW.H7775

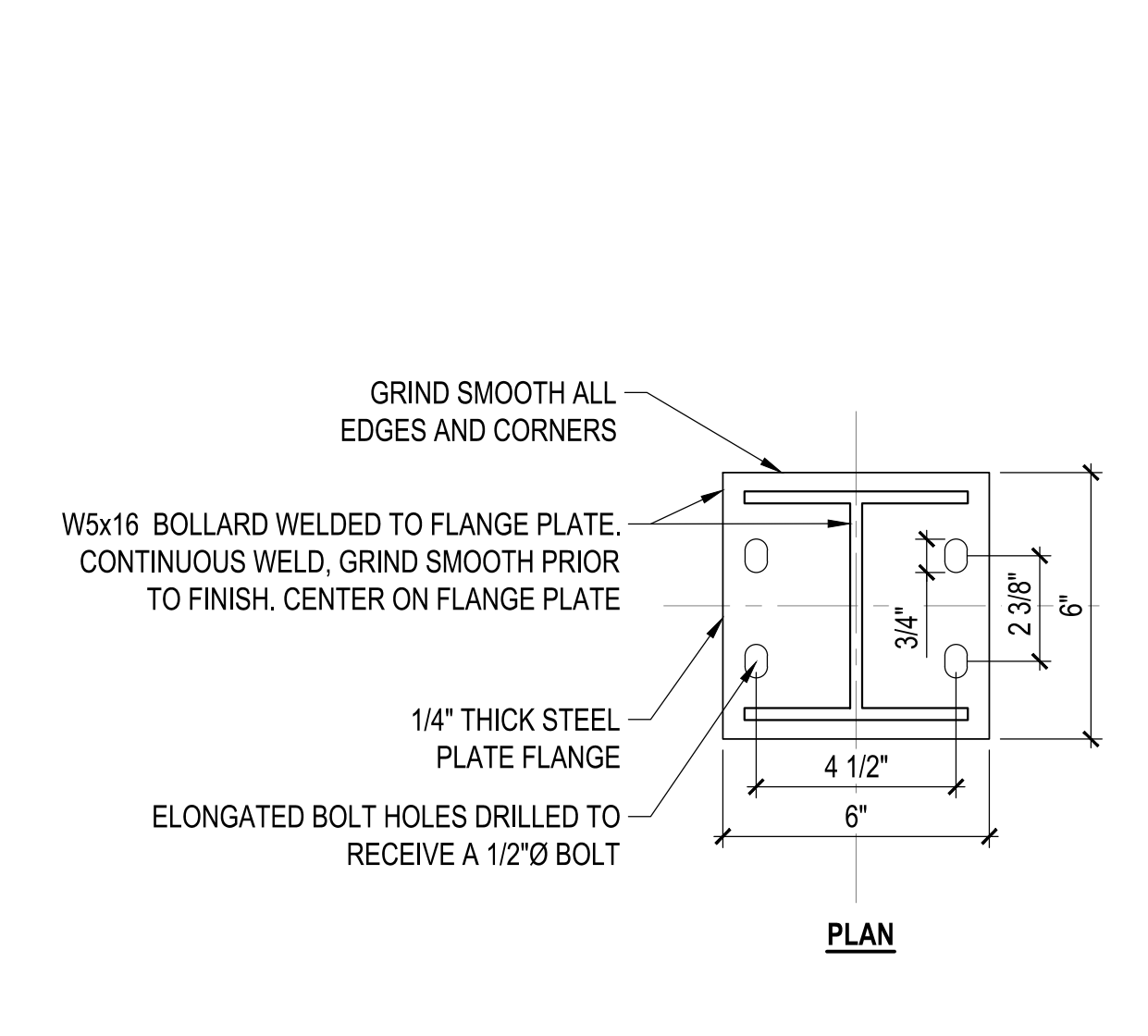
SHEET 91 of 288



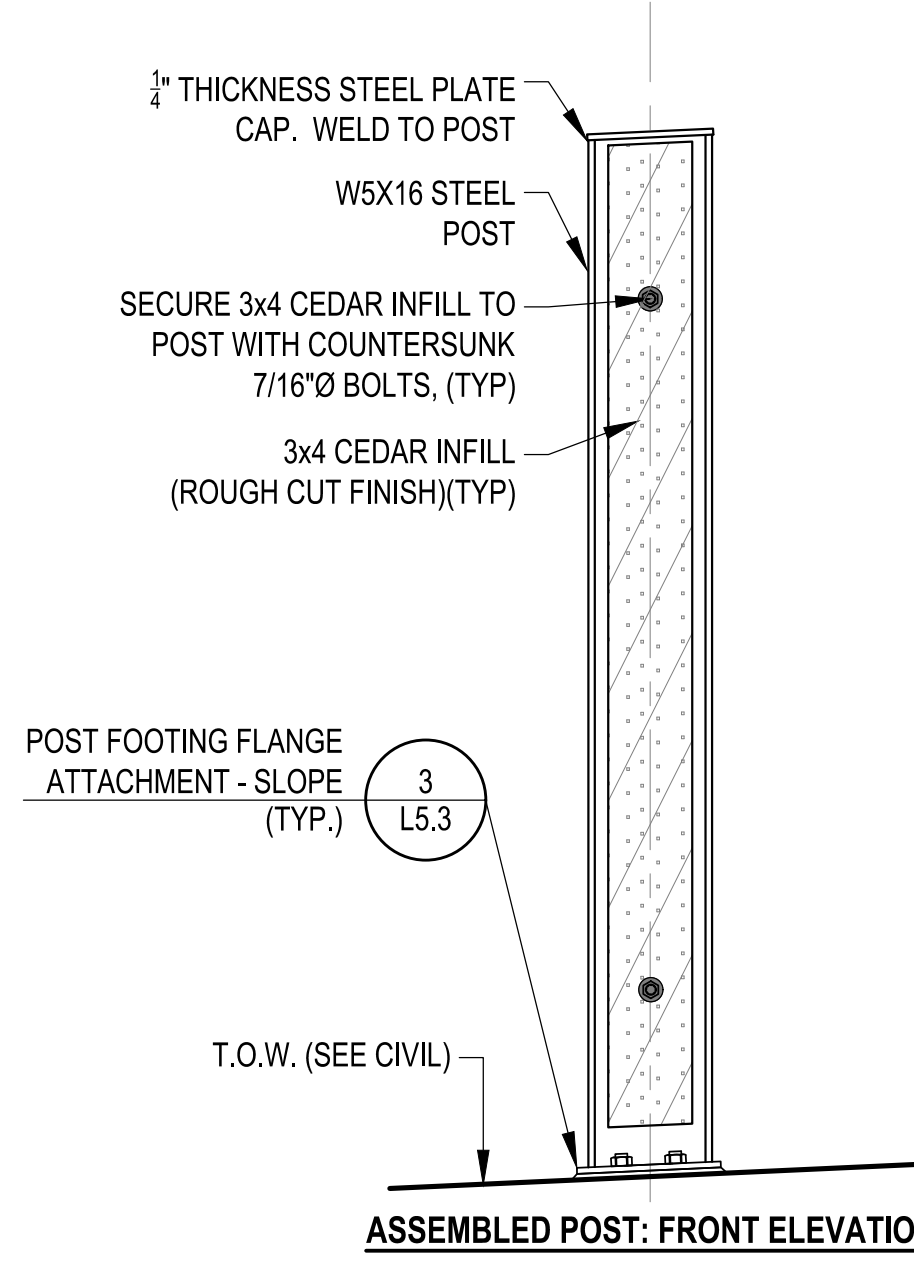
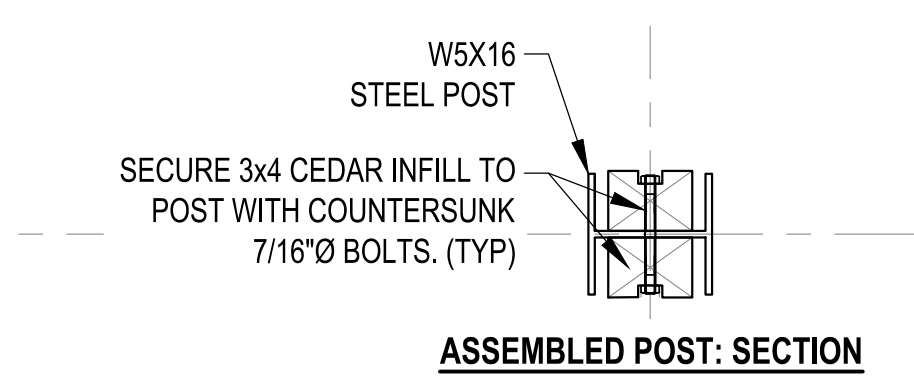
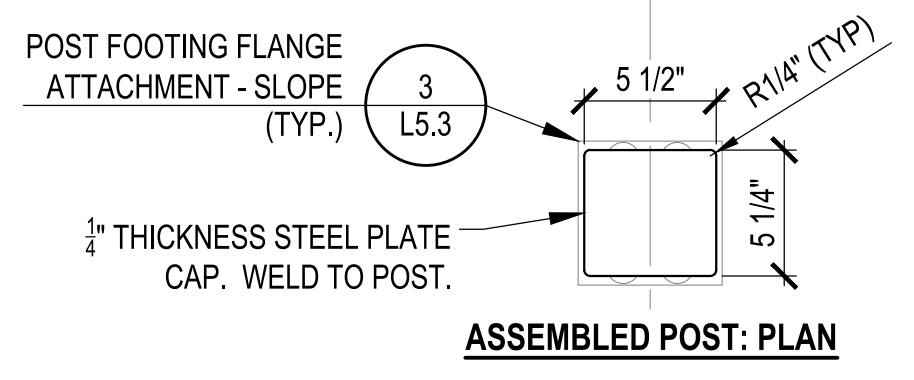
1 FALL PROTECTION RAILING ON SLOPE
L5.3 NTS



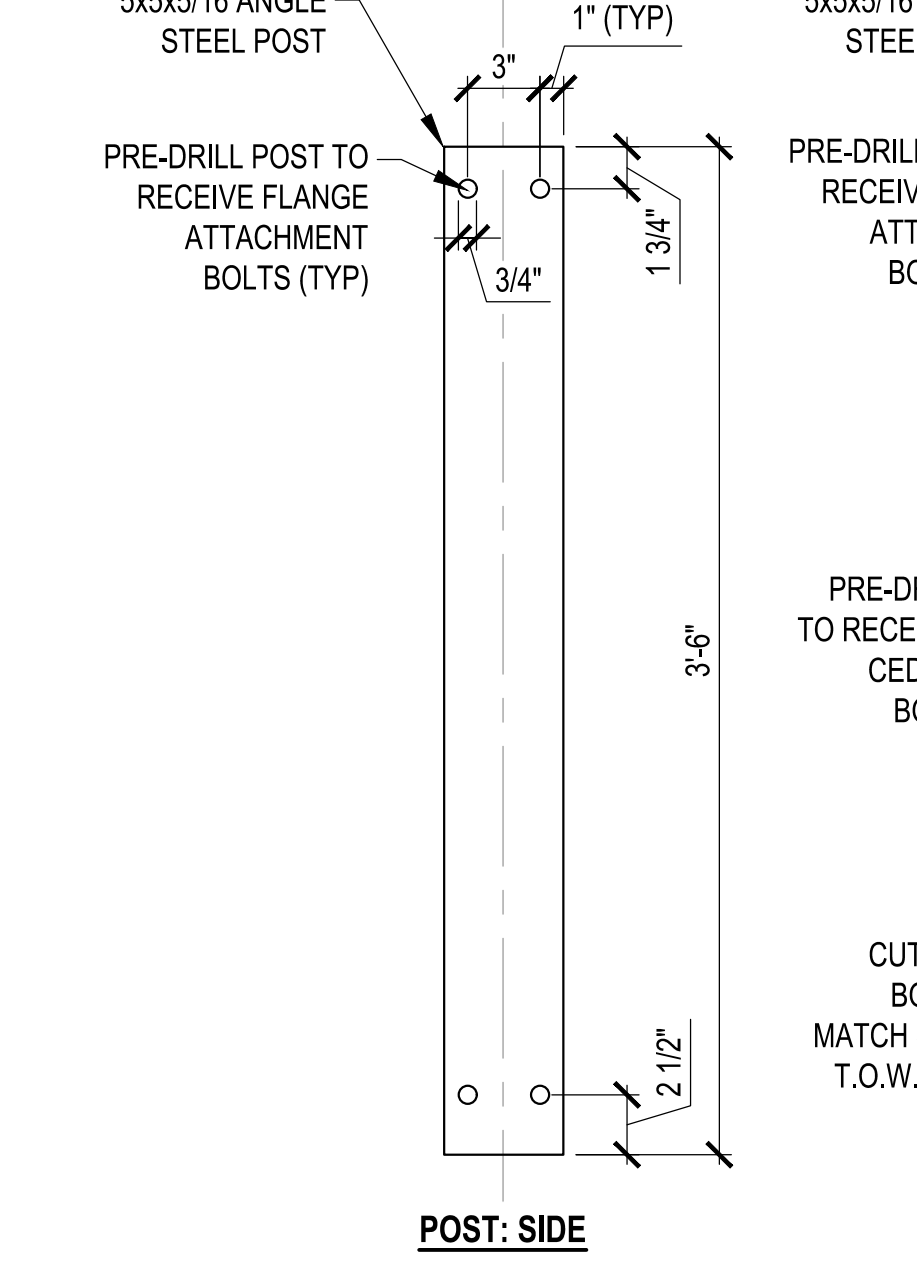
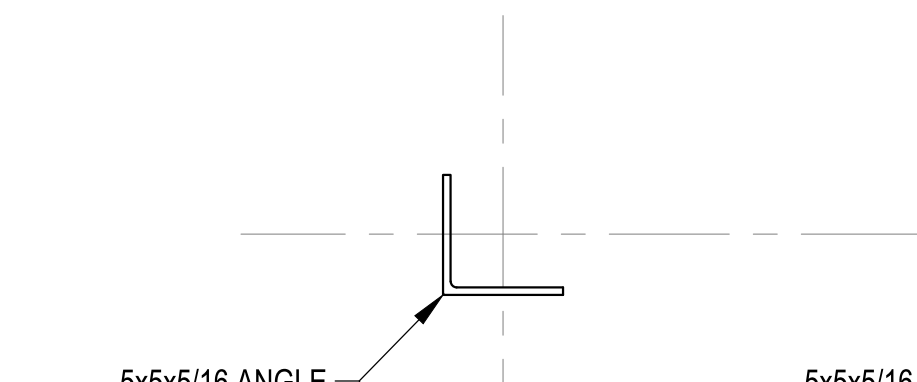
2 RAIL ATTACHMENT FLANGE - SLOPE
L5.3 NTS



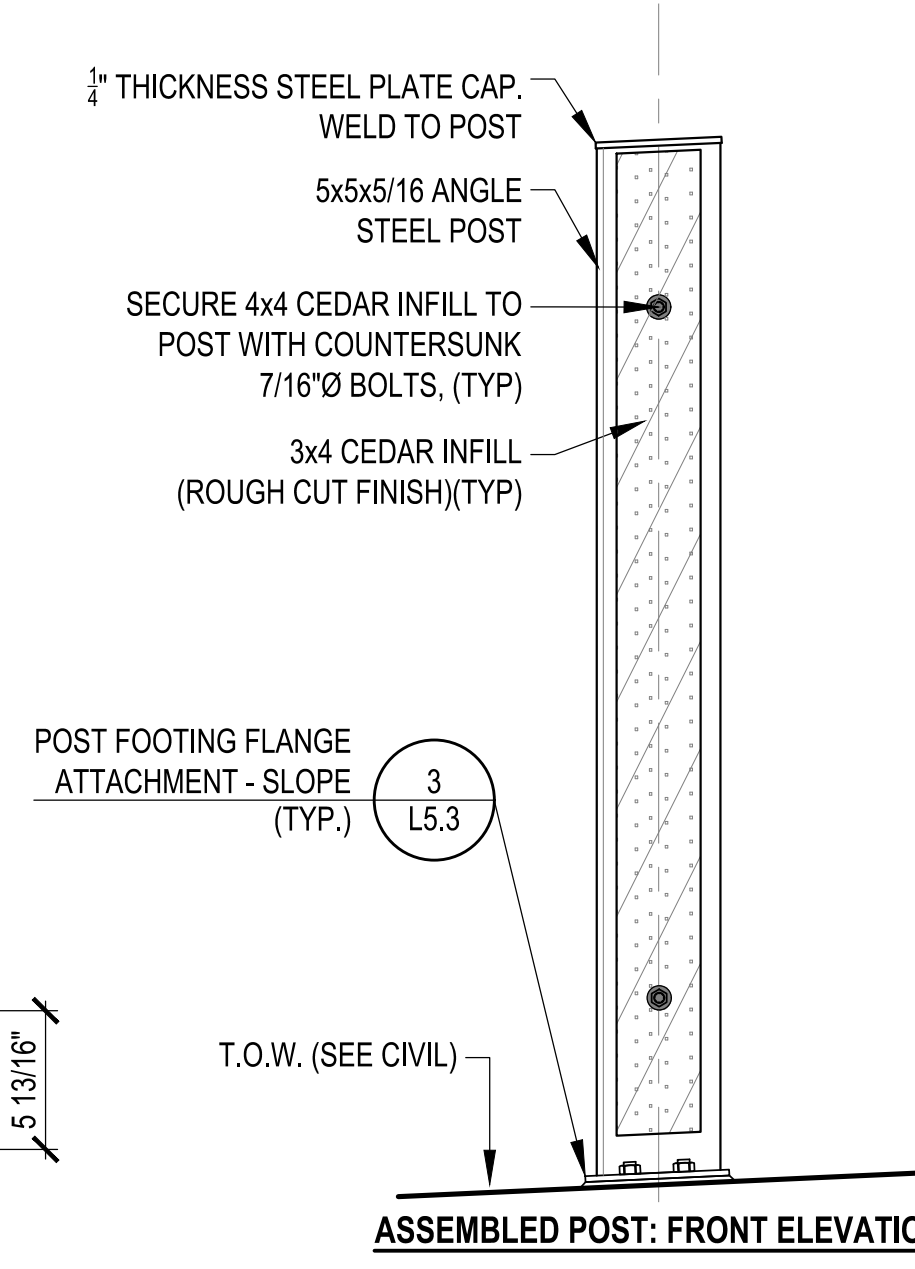
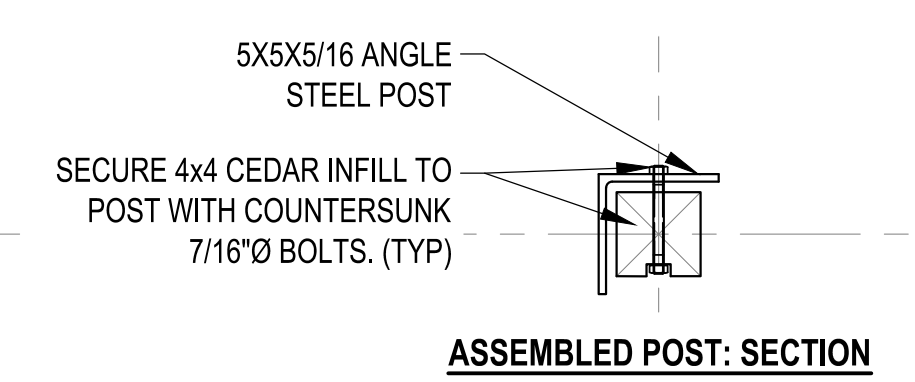
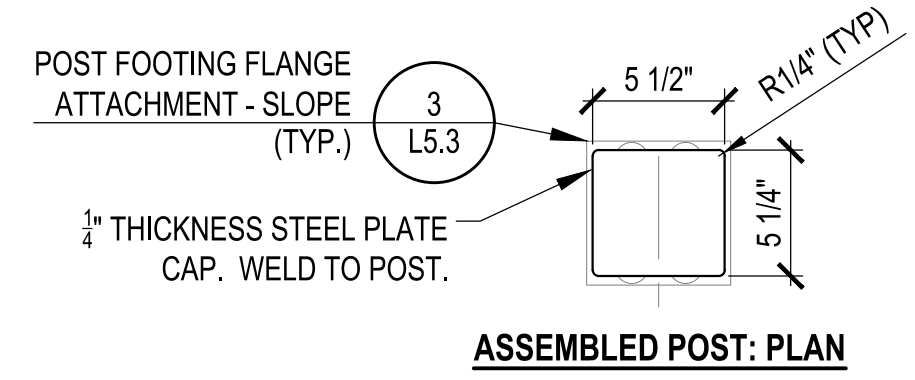
3 POST FOOTING FLANGE ATTACHMENT - SLOPE
L5.3 NTS



4 POST - SLOPE
L5.3 NTS



5 CORNER POST - SLOPE
L5.3 NTS



- FALL PROTECTION RAILING ON A SLOPE**
GENERAL NOTES:
1. CONTRACTOR TO FIELD VERIFY SLOPE OF TOP OF WALL PRIOR TO FABRICATION.
 2. POSTS AND PICKETS TO BE INSTALLED LEVEL AND PLUMB.
 3. MATCH SLOPE OF RAIL AND POST FOOTING AND TOP TO SLOPE OF TOP OF WALL (T.O.W.).
 4. GRIND SMOOTH ALL EDGES AND WELDS.
 5. ALL STEEL COMPONENTS TO BE POWDER COATED SIGNAL BLACK TO MATCH RAL 9004 .
 6. ALL FASTENERS AND HARDWARE TO BE POWDER COATED SIGNAL BLACK TO MATCH RAL 9004.

REV	DATE	DESCRIPTION	BY

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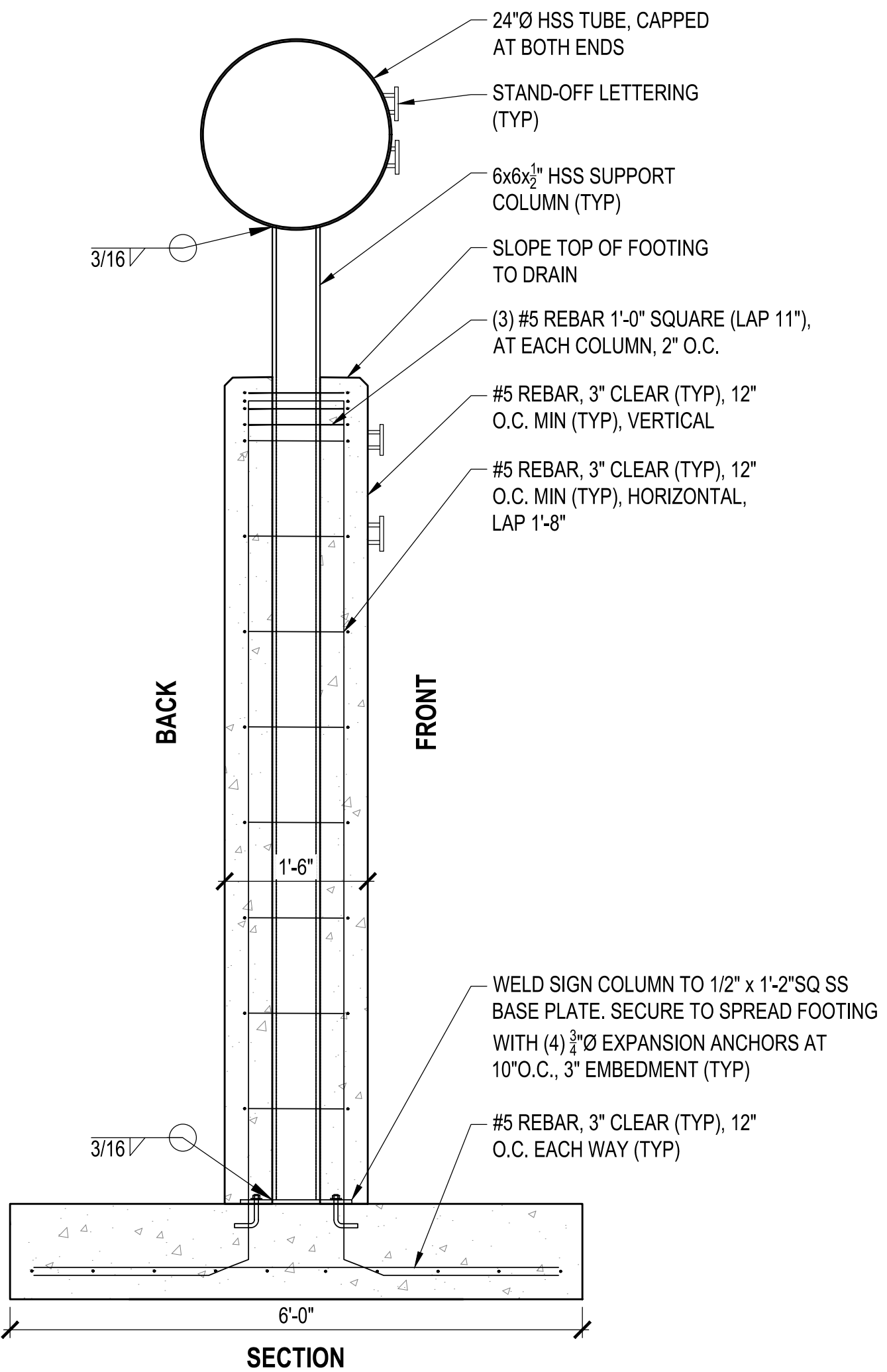
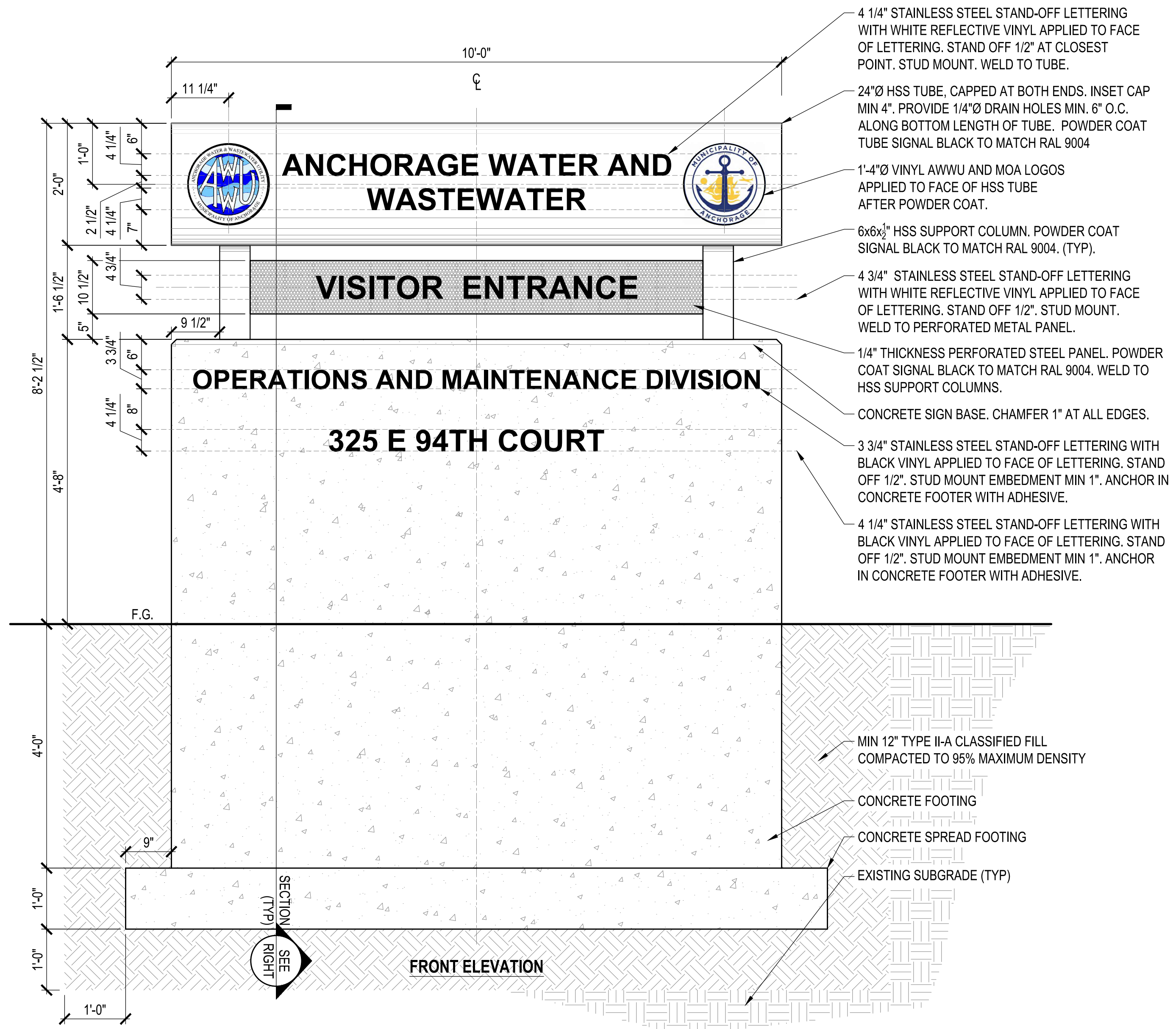
2. DATA TRANSFERRED BY: _____
COMPANY: _____
DATE: _____

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COMPANY: _____
DATE: _____ TITLE: _____
BY: _____

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BASIS OF DESIGN (FOR REFERENCE ONLY)

- NOTES:**
1. GRIND SMOOTH ALL EDGES AND WELDS.
 2. HORIZONTALLY CENTER ALL TEXT ON SIGN.
 3. PLACE TEXT ON FRONT (STREET FACING) SIDE OF SIGN.
 4. PERFORATED STEEL PANEL PERFORATIONS TO BE ROUND STAGGERED, 0.5"x0.625 SIZE AND CENTERS. OPEN AREA: 58%. PATTERN RS097 AS SPECIFIED BY ACCURATE PERFORATING, 3636 S. KEDZIE AVE., CHICAGO, IL 60632 OR APPROVED EQUAL.
 5. SEE CIVIL SHEET C7.7 FOR INSTALLATION LOCATION DETAILS.

1 MONUMENT SIGN 1
L5.4 NTS

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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 BY: _____

2. DATA TRANSFERRED BY: _____
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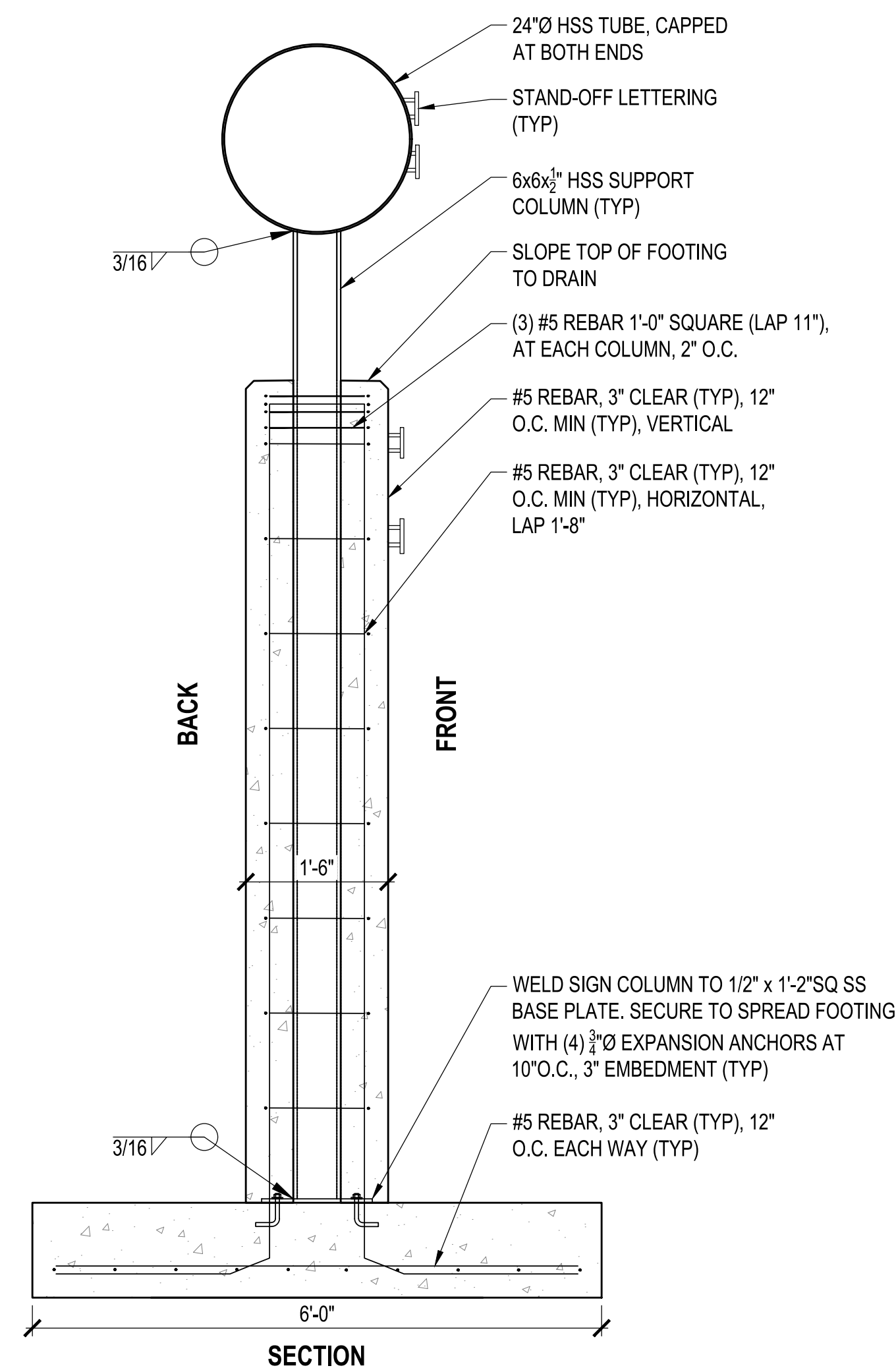
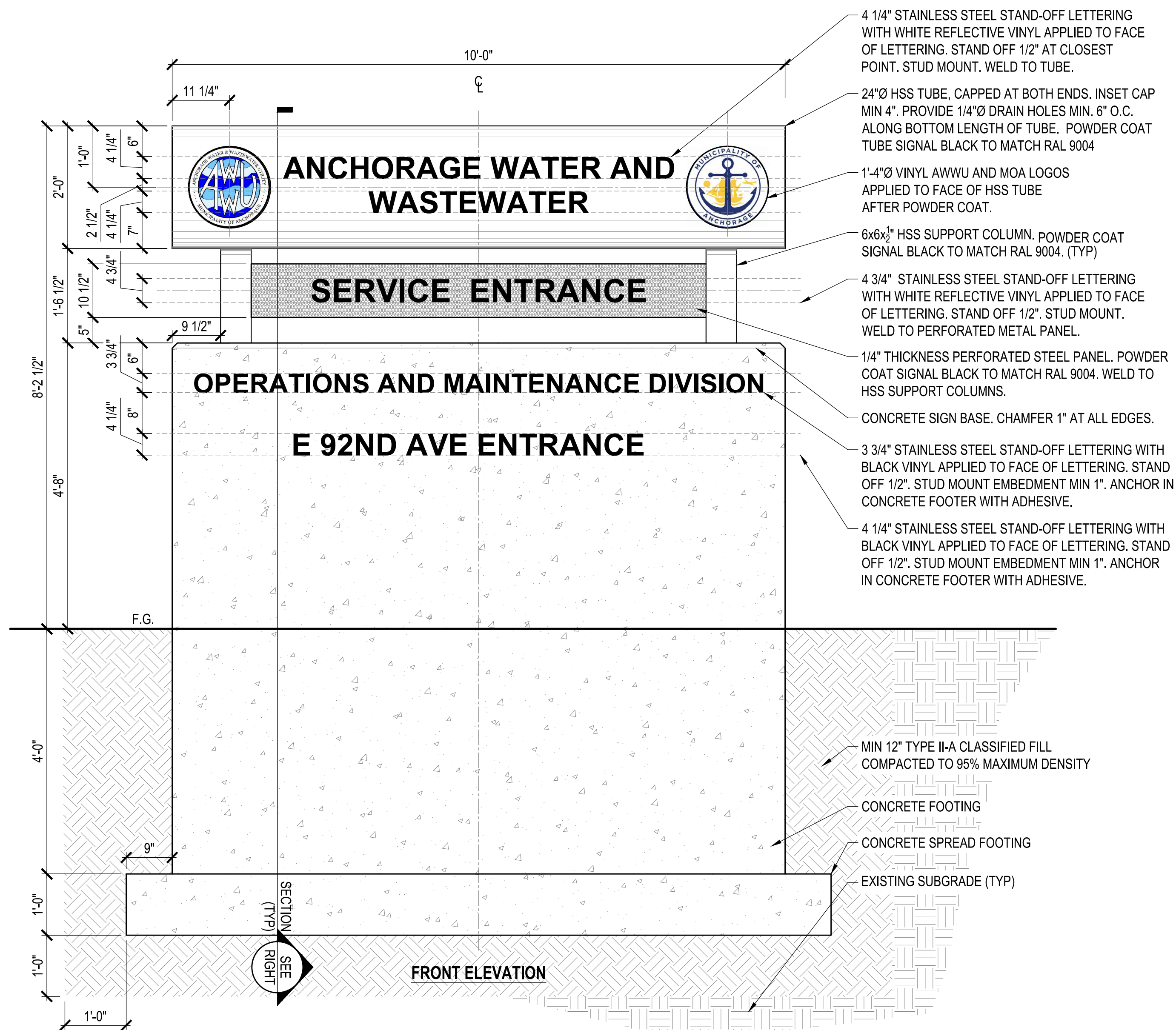
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 No. 1157
 PROFESSIONAL ENGINEER
 SEAL

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 KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
WAYFINDING DETAILS
 DWG L5.4
 HORZ. SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT. SCALE: N/A
 PROJ. ID.: WW.H7775
 SHEET 93 of 288



BASIS OF DESIGN (FOR REFERENCE ONLY)

- NOTES:**
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 - HORIZONTALLY CENTER ALL TEXT ON SIGN.
 - PLACE TEXT ON FRONT (STREET FACING) SIDE OF SIGN.
 - PERFORATED STEEL PANEL PERFORATIONS TO BE ROUND STAGGERED, 0.5"x0.625 SIZE AND CENTERS. OPEN AREA: 58%. PATTERN RS097 AS SPECIFIED BY ACCURATE PERFORATING, 3636 S. KEDZIE AVE., CHICAGO, IL 60632 OR APPROVED EQUAL.
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1 MONUMENT SIGN 2
L5.5 NTS

REV	DATE	DESCRIPTION	BY

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 6700 Arctic Spur Road
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BETTISWORTH NORTH
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 CONSULTANT

STATE OF ALASKA
 49th Anniversary
 MARK M. KIMERER
 No. 1157
 PROFESSIONAL ENGINEER
 SEAL

AWWU

MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

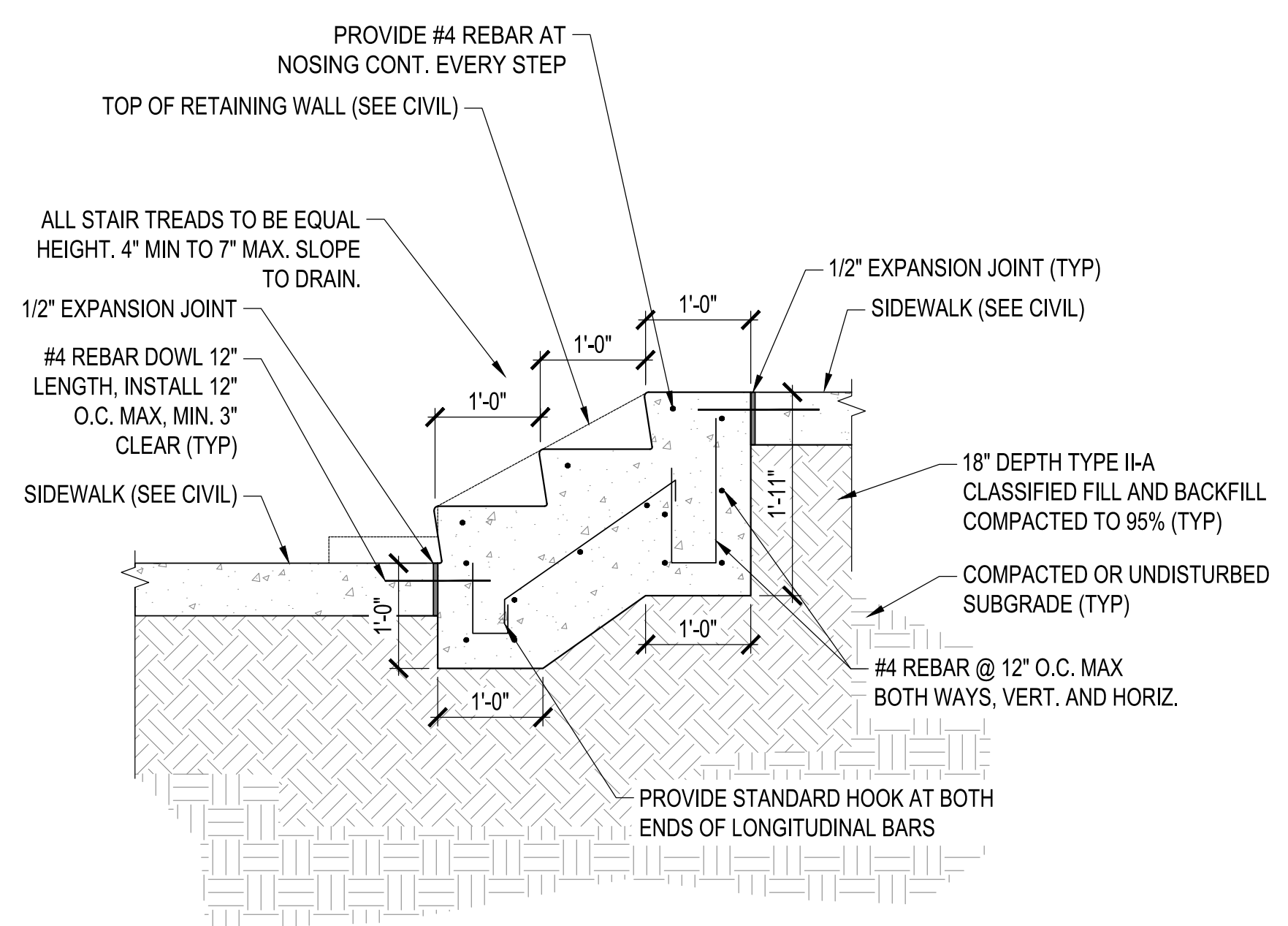
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

WAYFINDING DETAILS

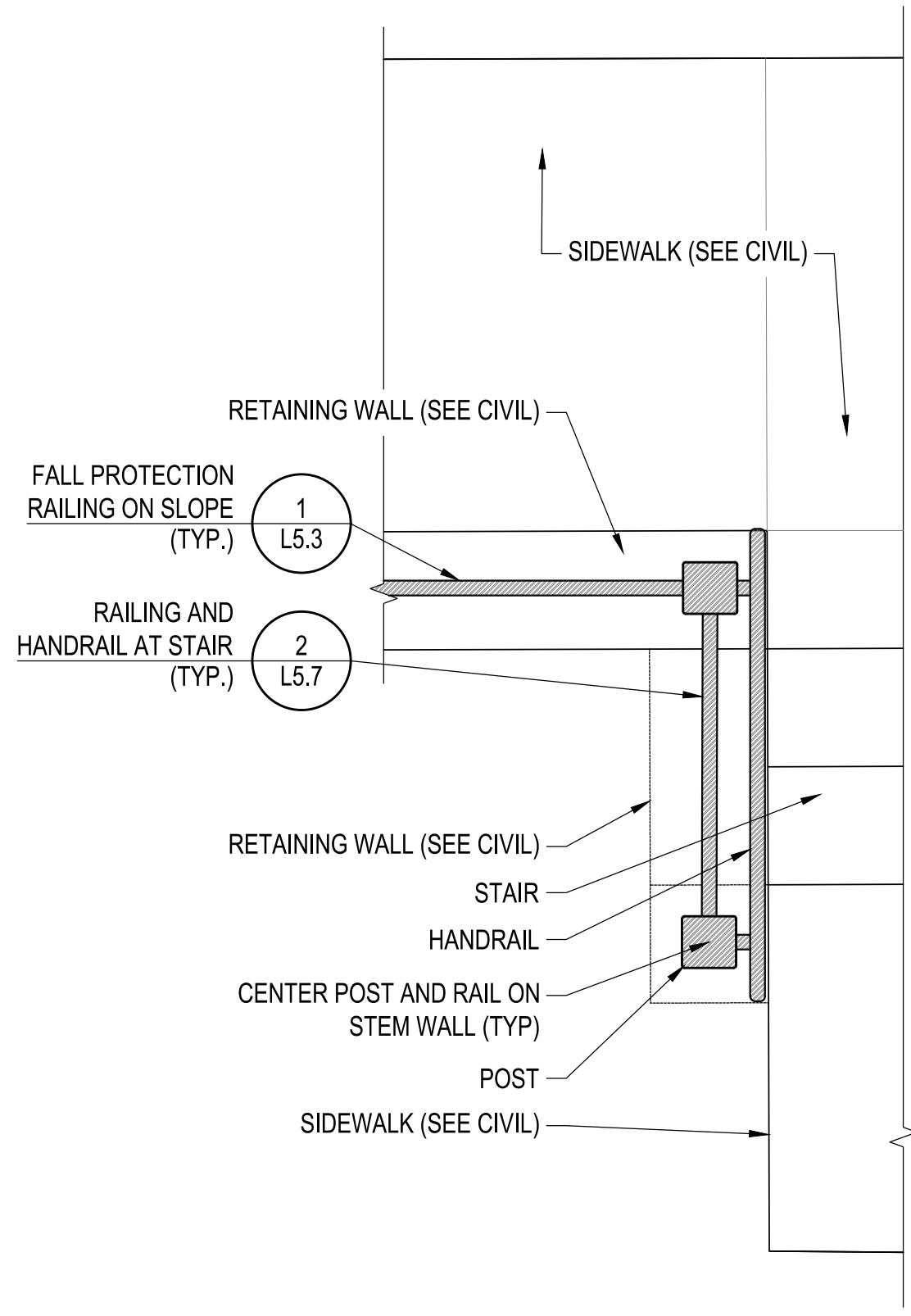
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 VERT. SCALE: N/A
 PROJ. ID.: WW.H7775

DWG L5.5 SHEET 94 of 288

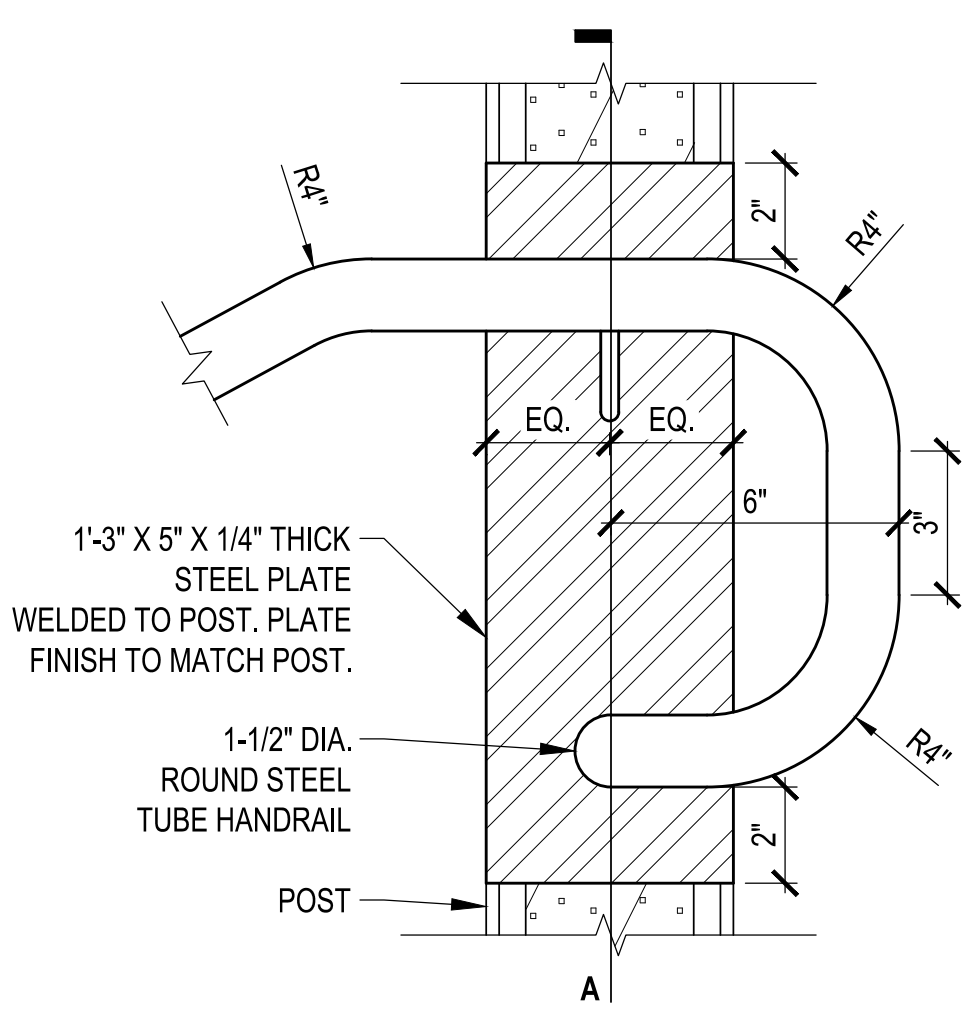
- NOTES:**
1. PROVIDE RETAINING WALL, RAILING, AND HANDRAIL ON BOTH SIDES OF STAIR.
 2. TOP OF HANDRAIL TO BE 34" VERTICALLY ABOVE STAIR NOSINGS AND TOP AND BOTTOM LANDING SURFACES.
 3. TOP AND BOTTOM EXTENSIONS OF HANDRAILS SHALL EXTEND 12" MIN. BEYOND STAIR NOSINGS.
 4. GRIND SMOOTH ALL EDGES AND WELDS
 5. SEE DETAIL 1/L5.2 FOR FINISHES AND ADDITIONAL FALL PROTECTION RAILING AND POST INFORMATION.
 6. FINISH HANDRAIL TO MATCH RAILING.



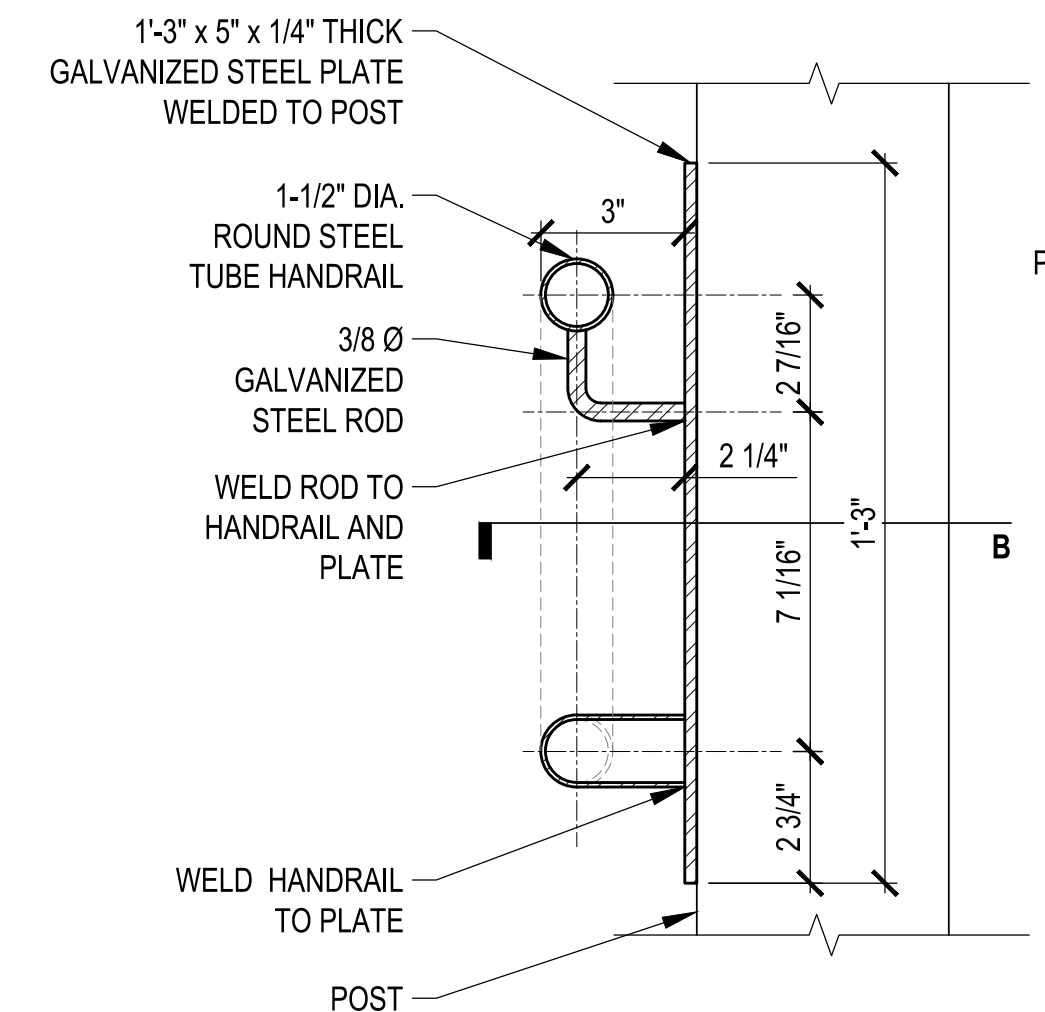
SECTION



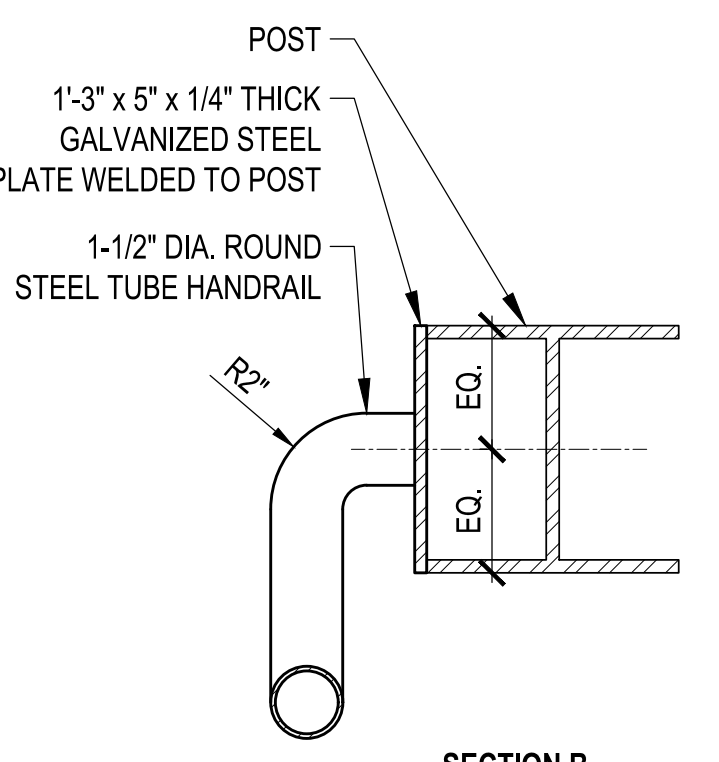
PLAN
(SEE CIVIL FOR LAYOUT)



FRONT ELEVATION



SECTION A



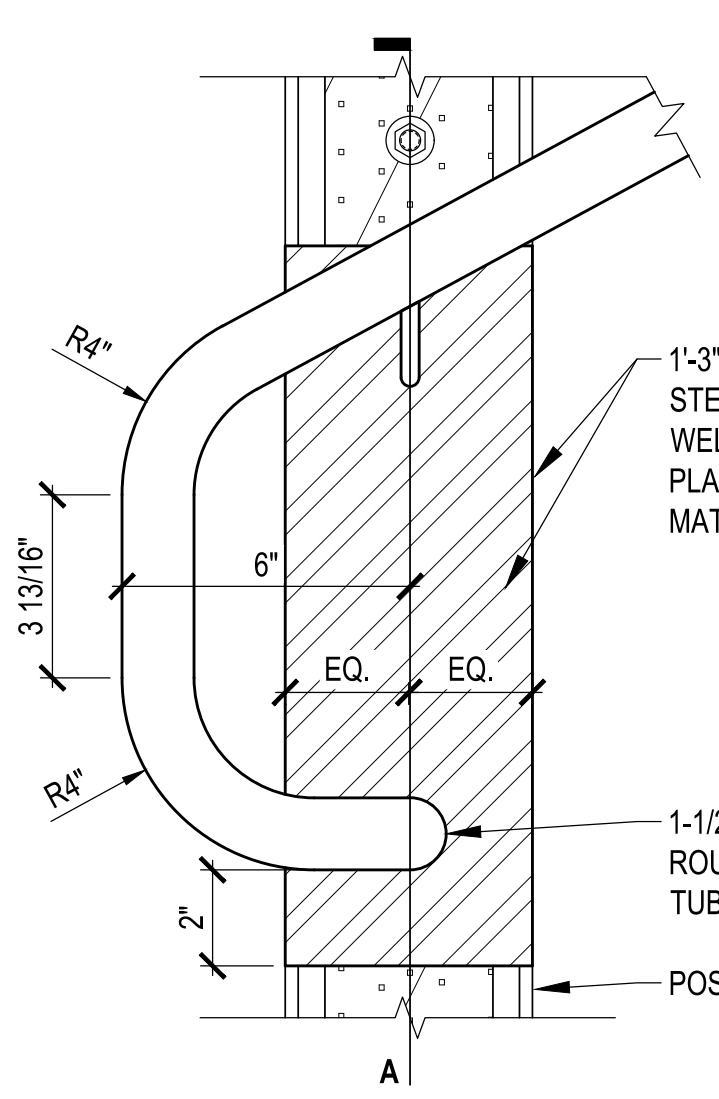
SECTION B

1
L5.7
NTS

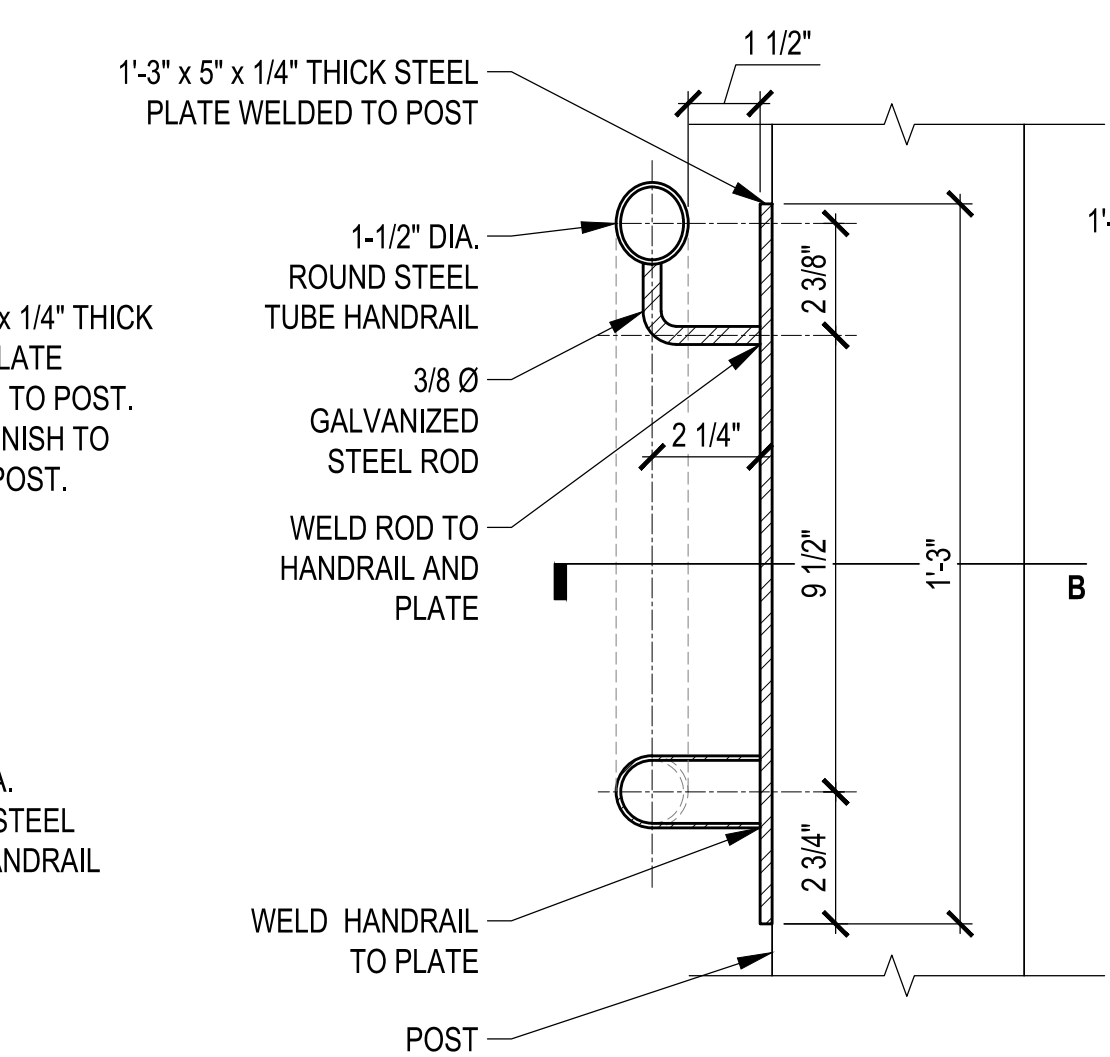
STAIR

3
L5.7
NTS

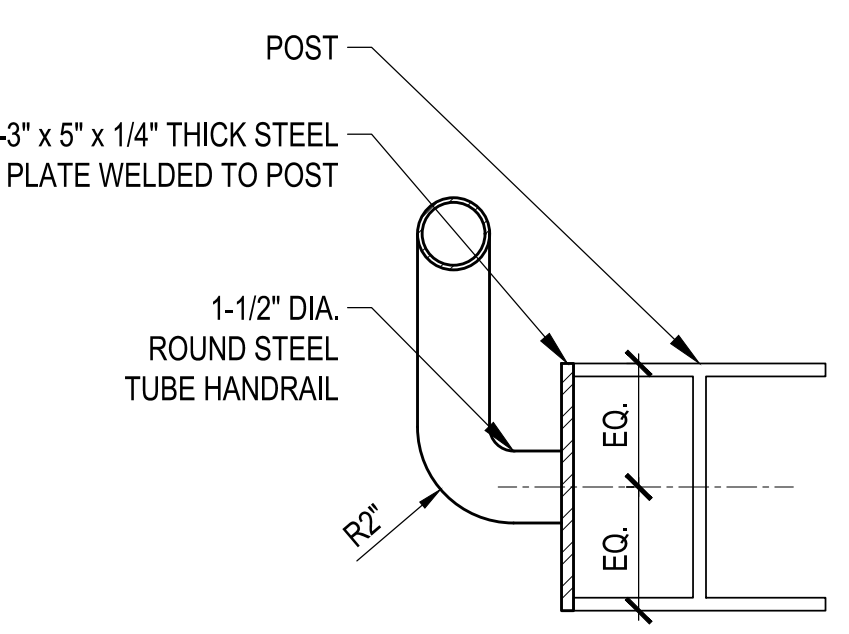
HANDRAIL RETURN AND ATTACHMENT - TOP



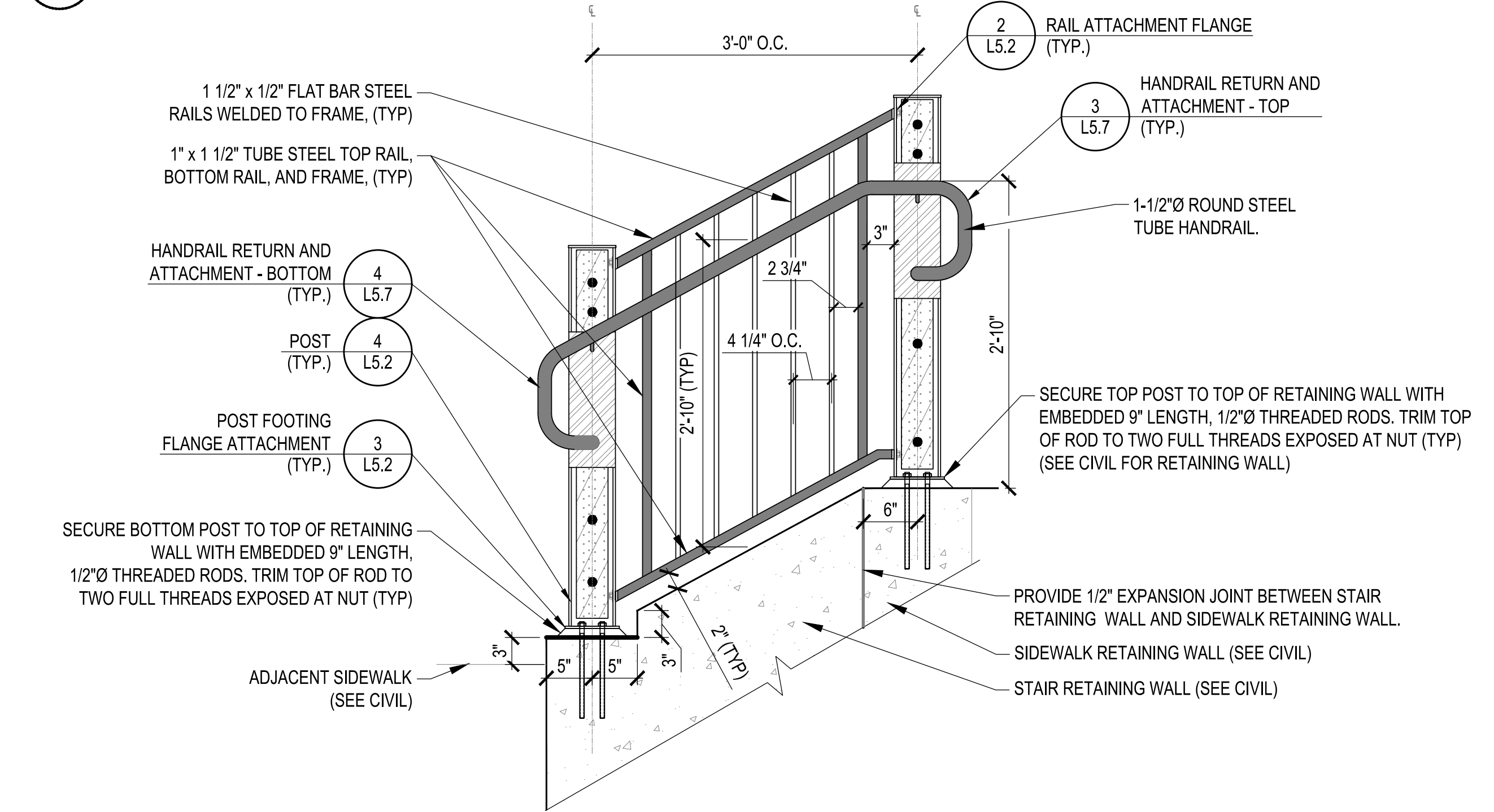
FRONT ELEVATION



SECTION A



SECTION B



2
L5.7
NTS

RAILING AND HANDRAIL AT STAIR

4
L5.7
NTS

HANDRAIL RETURN AND ATTACHMENT - BOTTOM

VERIFY SCALE

IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

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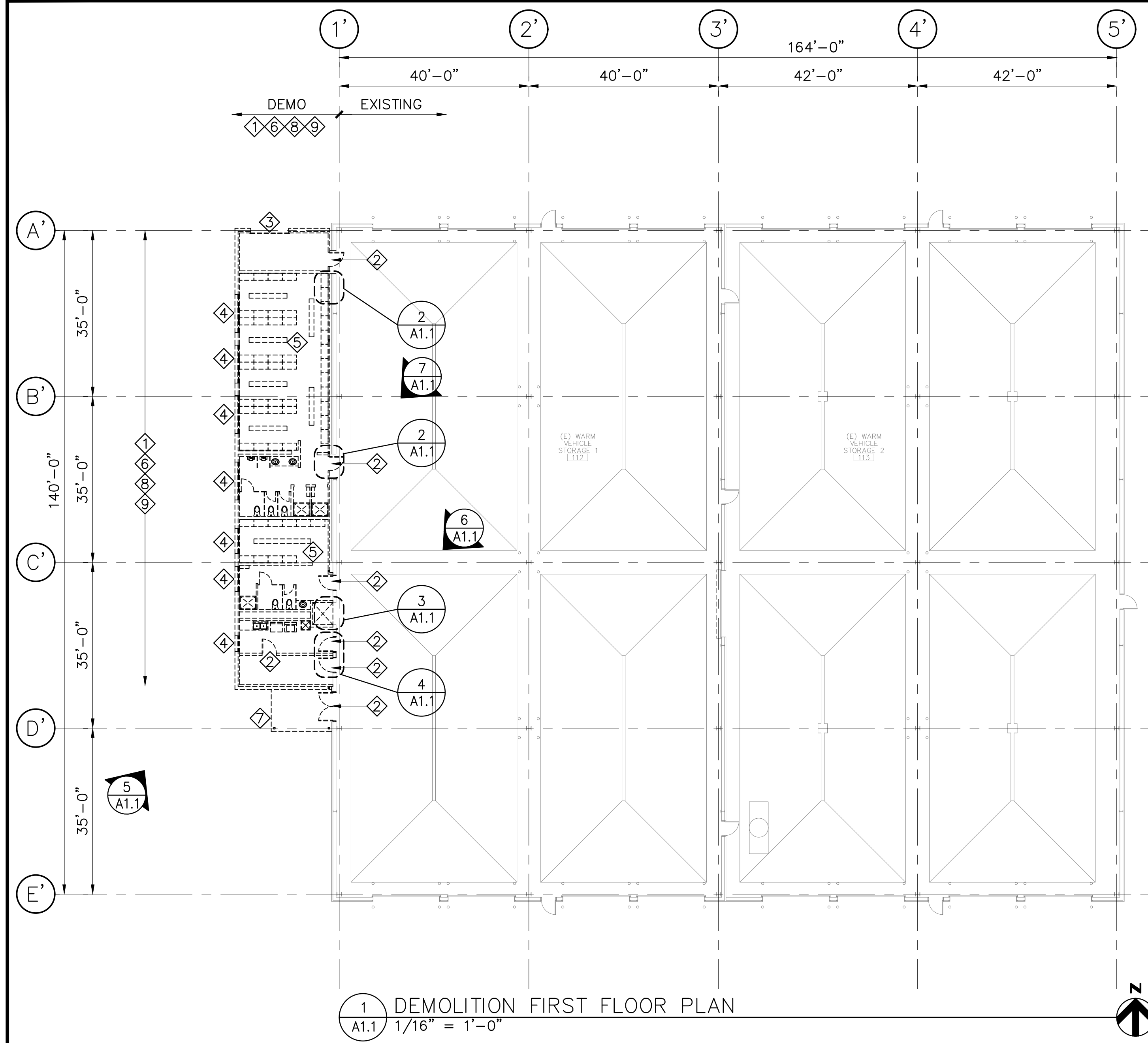
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

EXTERIOR CONCRETE STAIR DETAILS

L5.7

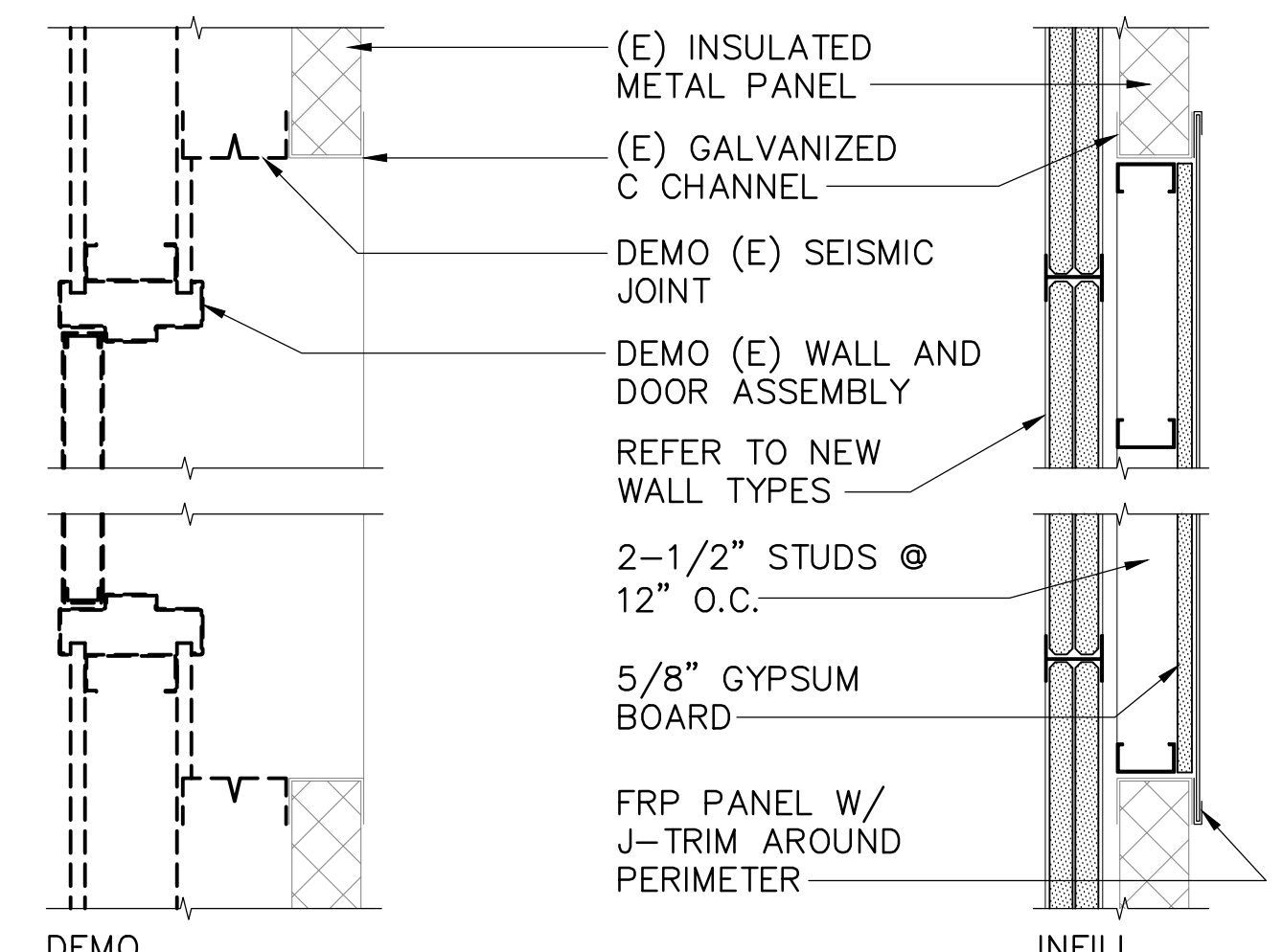
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VERT. SCALE: N/A
PROJ. ID.: WW.H7775

SHEET 96 of 288

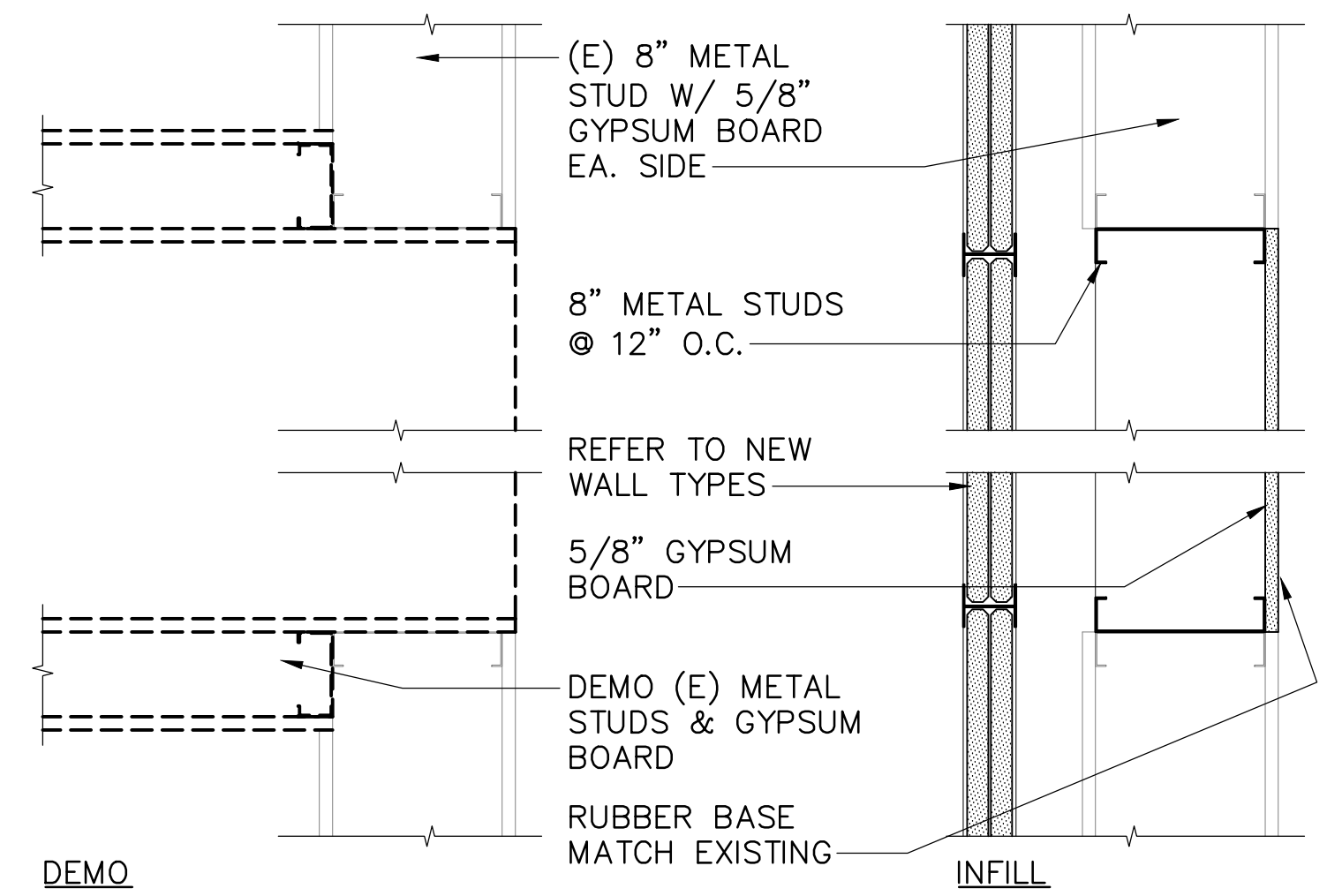


1 DEMOLITION FIRST FLOOR PLAN
A1.1 1/16" = 1'-0"

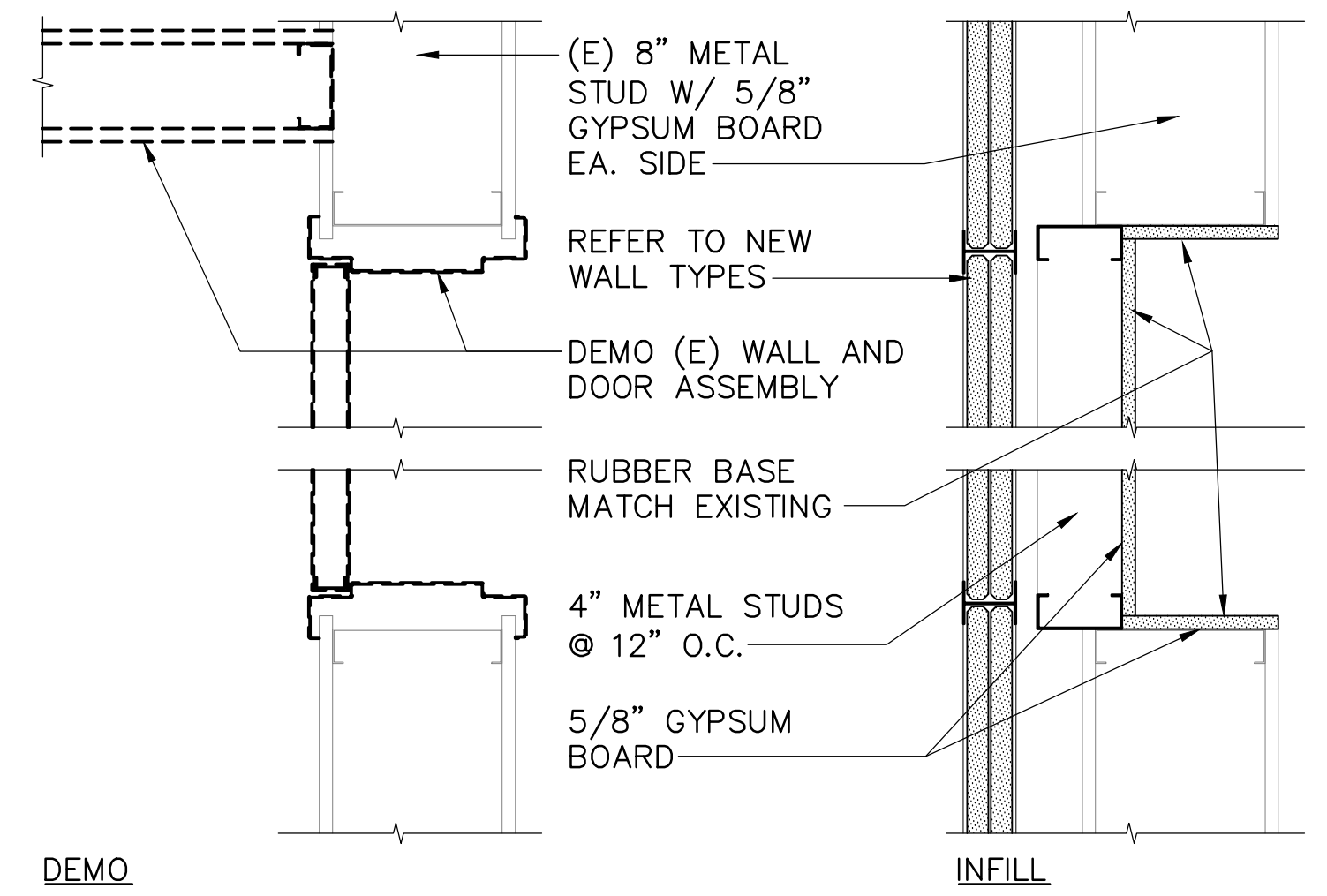
- DEMOLITION KEY NOTES**
- REMOVE AND DISPOSE OF EXISTING EXTERIOR CMU WALLS AND ALL INTERIOR WALLS IN THEIR ENTIRETY.
 - REMOVE AND DISPOSE OF EXISTING DOORS AND FRAMES.
 - REMOVE AND DISPOSE OF EXISTING COILING DOOR.
 - REMOVE AND DISPOSE OF EXISTING WINDOWS.
 - REMOVE AND DISPOSE OF EXISTING LOCKERS AND BENCH. LOCKERS MAY BE USED AT CONTRACTOR'S OPTION IN TEMPORARY LOCKER ROOM FACILITY.
 - REMOVE AND DISPOSE OF EXISTING ROOF ASSEMBLY AND STRUCTURE.
 - REMOVE AND DISPOSE OF EXISTING EXTERIOR CANOPY AND STRUCTURE.
 - REMOVE AND DISPOSE OF EXISTING PLUMBING & MECHANICAL FIXTURES. REFER TO MECHANICAL DRAWINGS.
 - REMOVE AND DISPOSE OF EXISTING ELECTRICAL FIXTURES. REFER TO ELECTRICAL DRAWINGS.
 - REMOVE AND DISPOSE OF EXISTING ROOF FLASHING AND PREPARE FOR NEW PARAPET EXTENSION.



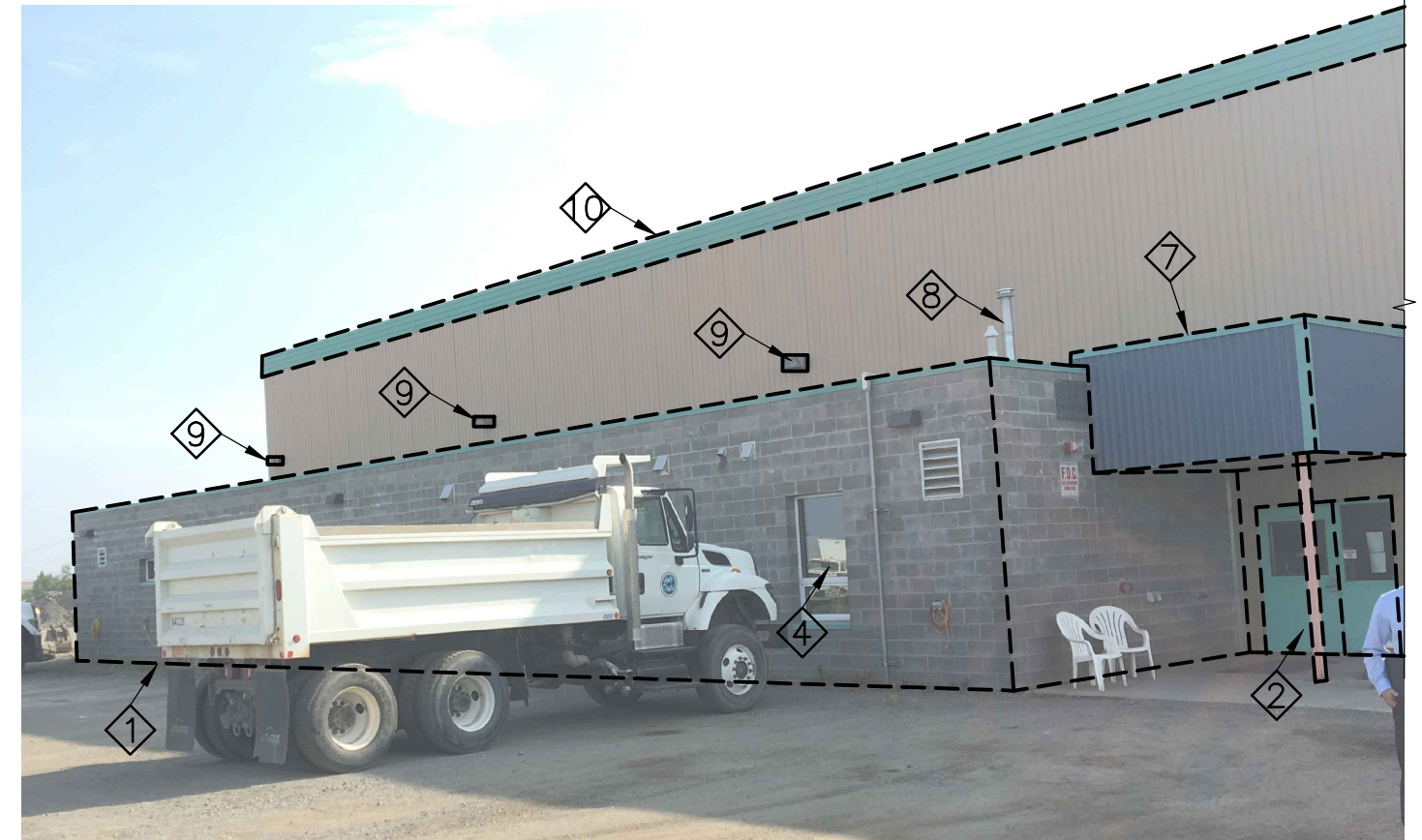
2 WALL INFILL DETAIL
A1.1 1-1/2" = 1'-0"



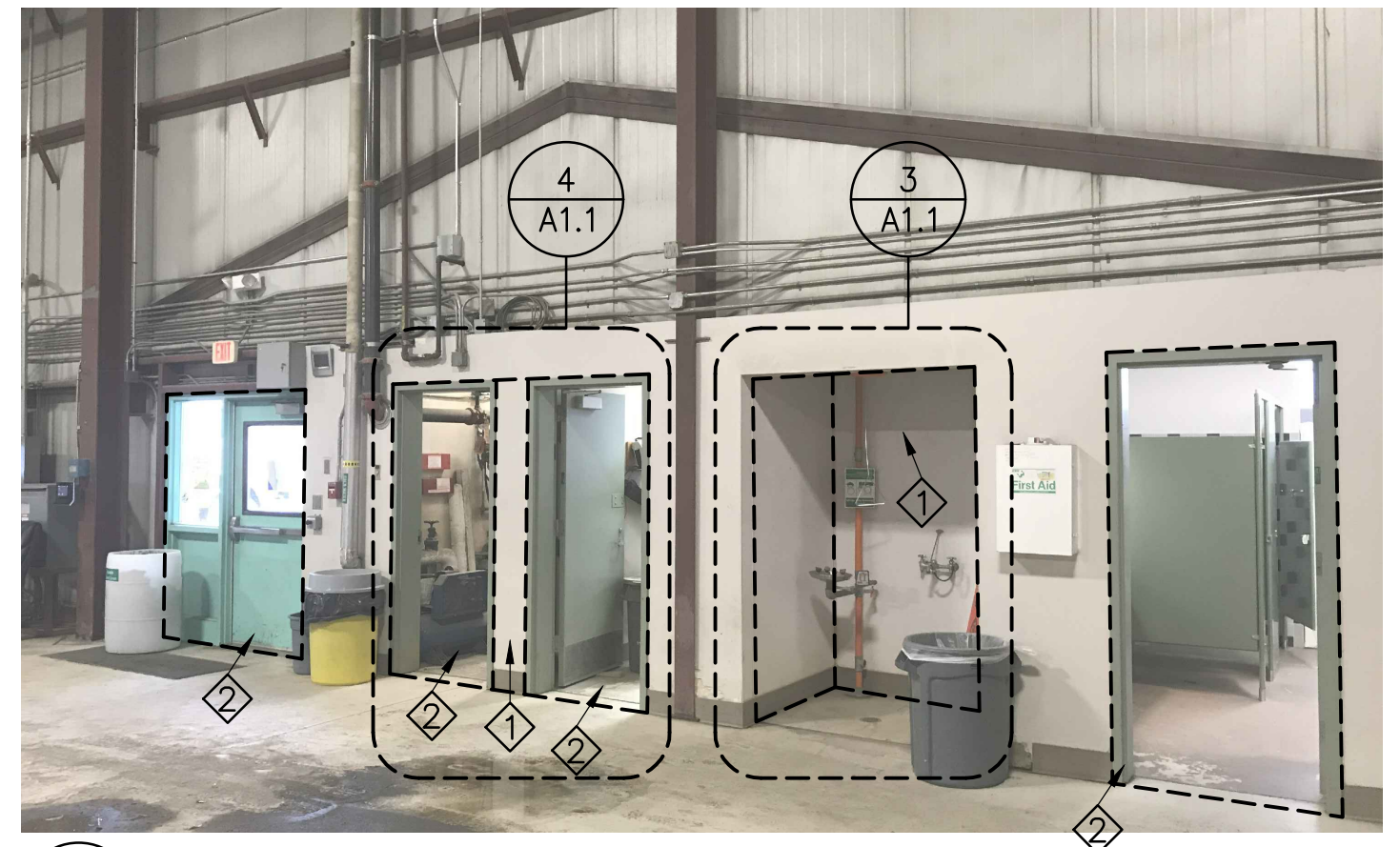
3 WALL INFILL DETAIL
A1.1 1-1/2" = 1'-0"



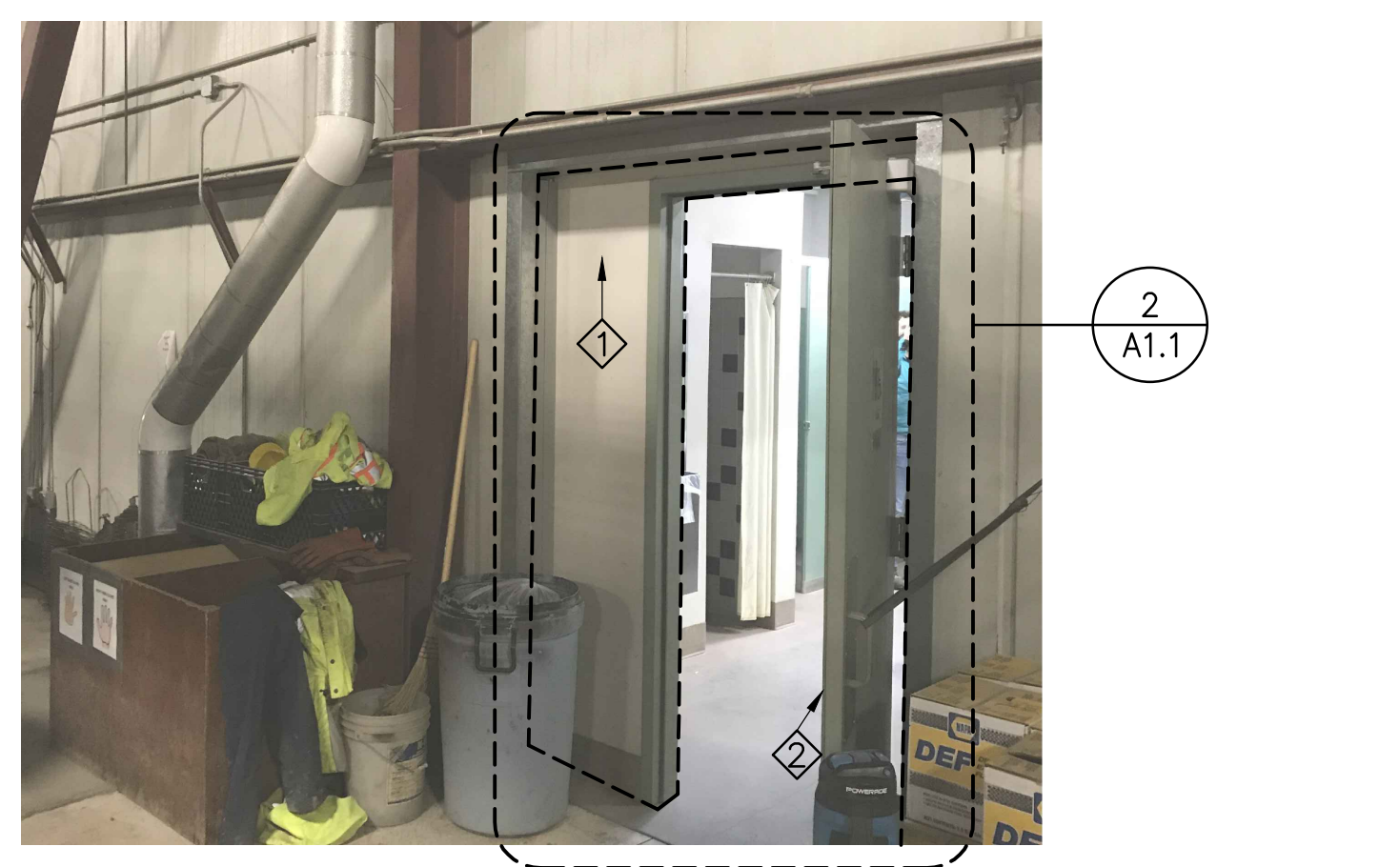
4 WALL INFILL DETAIL
A1.1 1-1/2" = 1'-0"



5 EXTERIOR PHOTO
A1.1 NTS



6 INTERIOR PHOTO
A1.1 NTS



7 INTERIOR PHOTO
A1.1 NTS

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REV	DATE	DESCRIPTION	BY

REVISIONS

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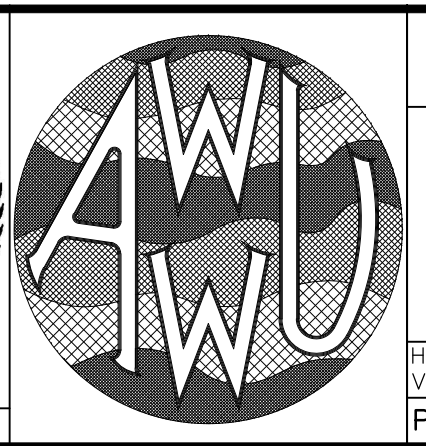
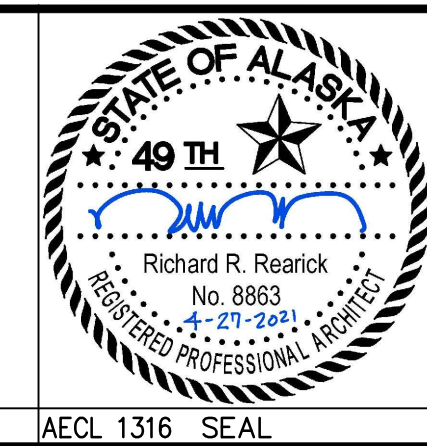
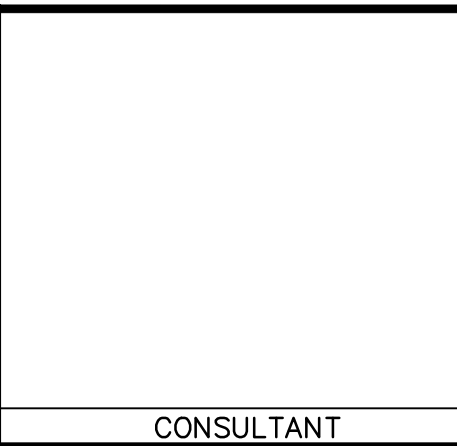
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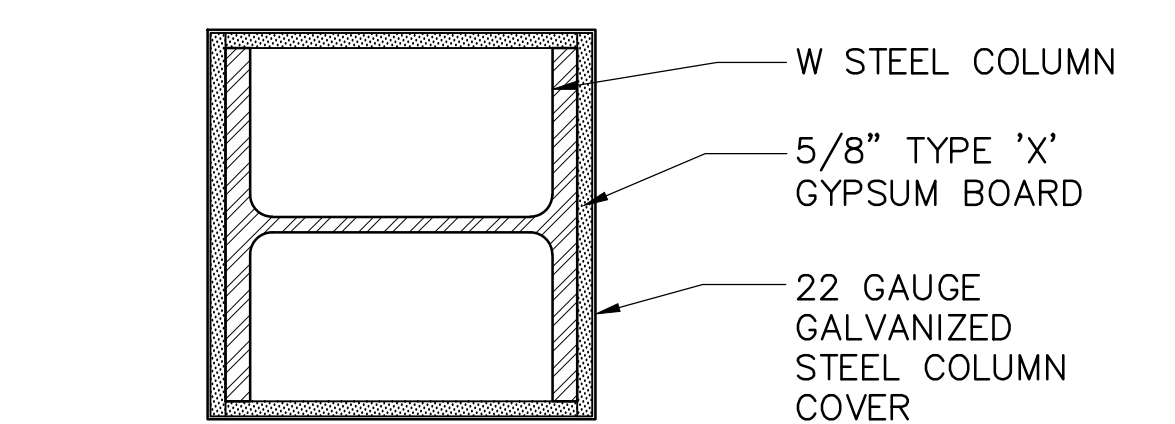
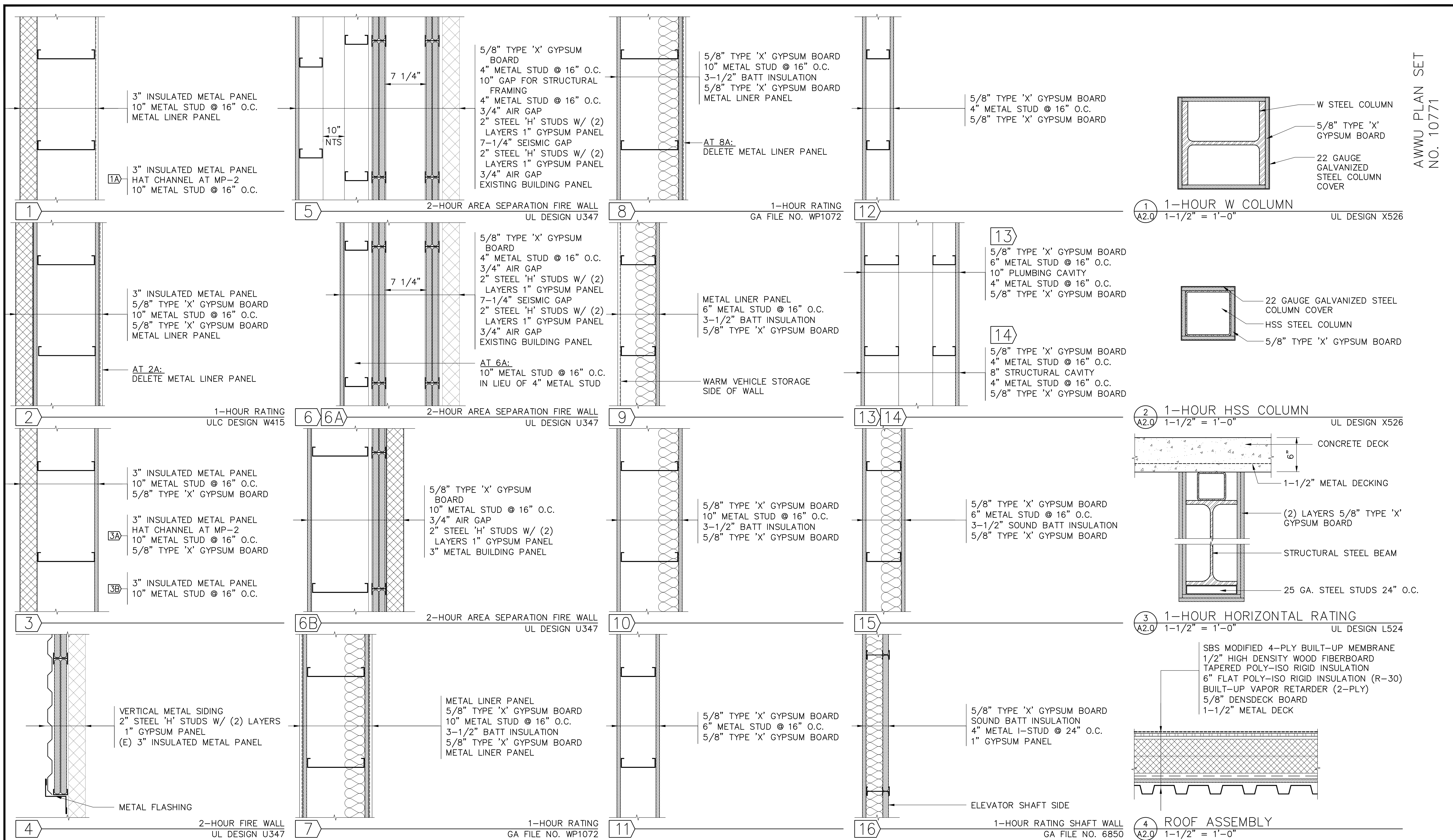
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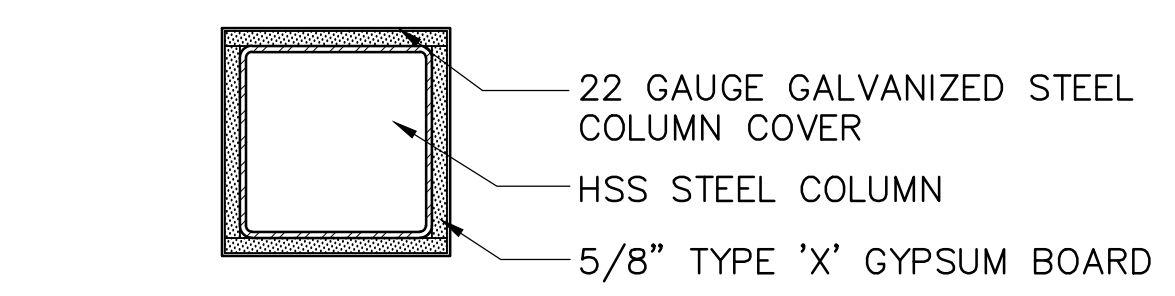
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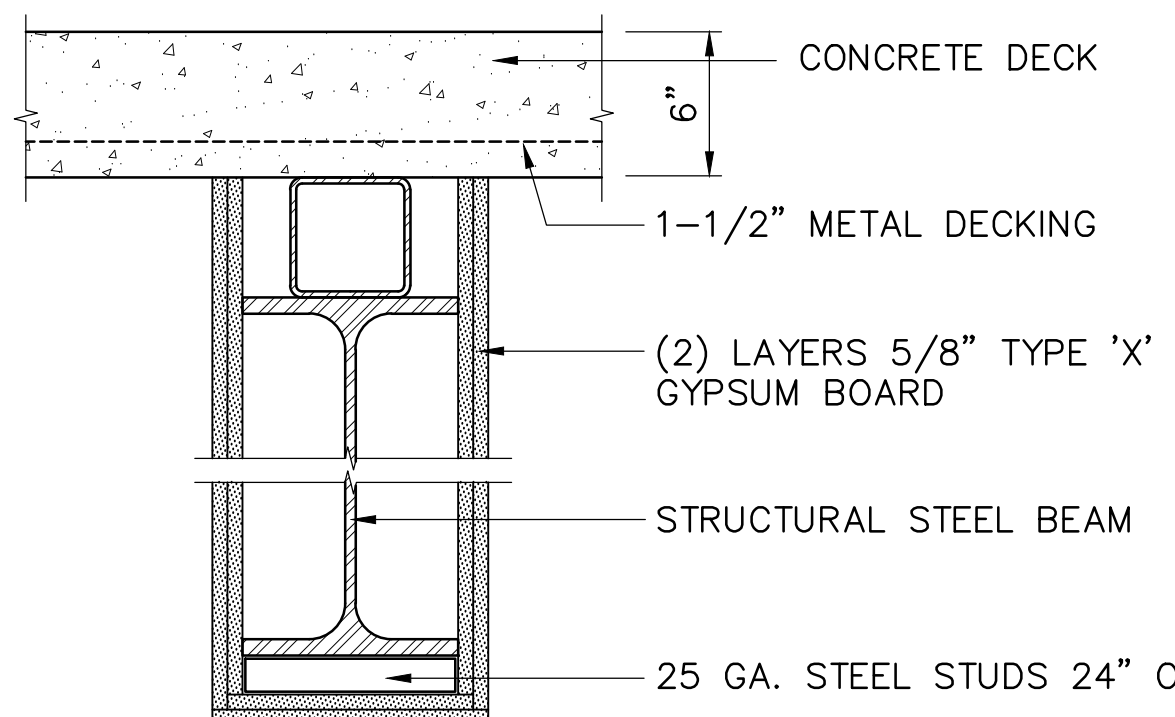




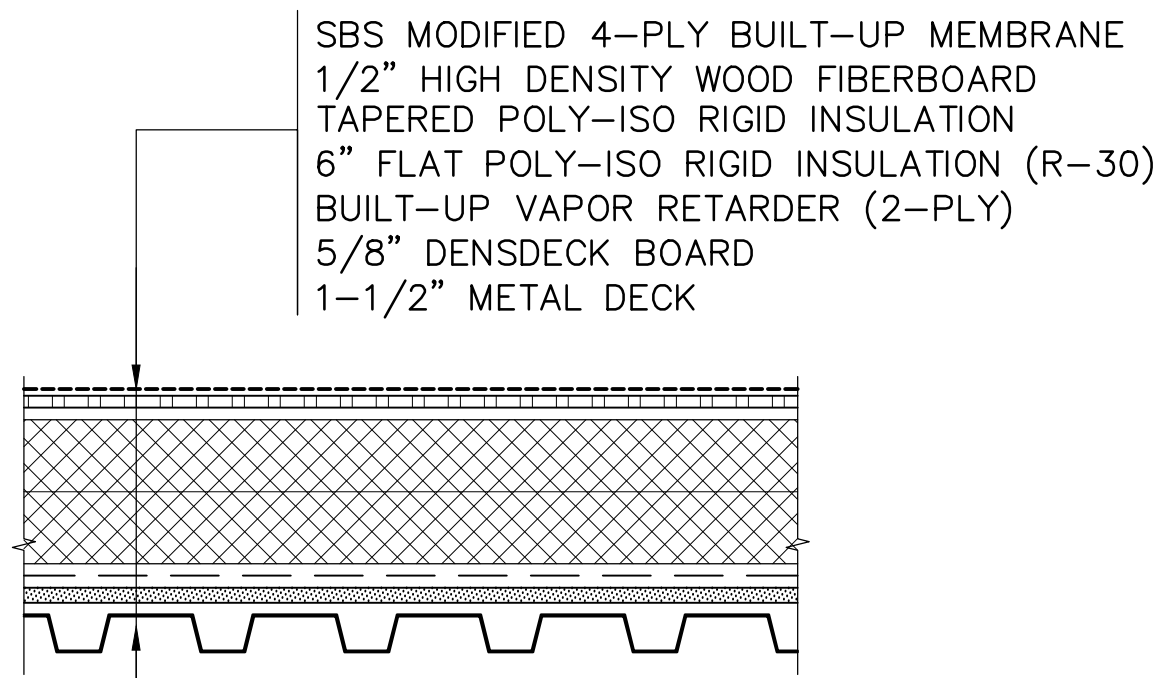
1 1-HOUR W COLUMN
A2.0 1-1/2" = 1'-0" UL DESIGN X526



2 1-HOUR HSS COLUMN
A2.0 1-1/2" = 1'-0" UL DESIGN X526



3 1-HOUR HORIZONTAL RATING
A2.0 1-1/2" = 1'-0" UL DESIGN L524



4 ROOF ASSEMBLY
A2.0 1-1/2" = 1'-0"

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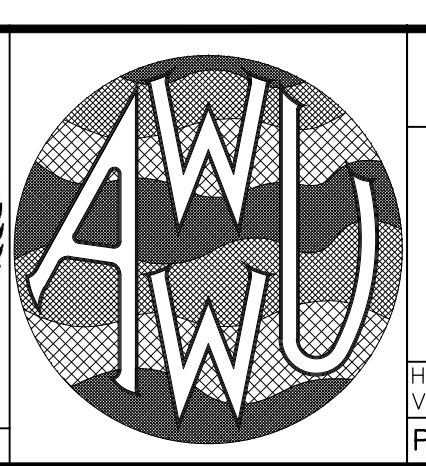
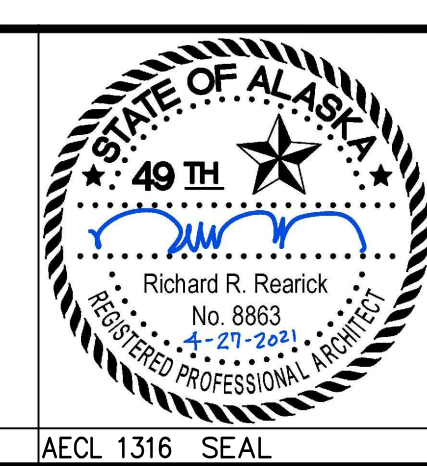
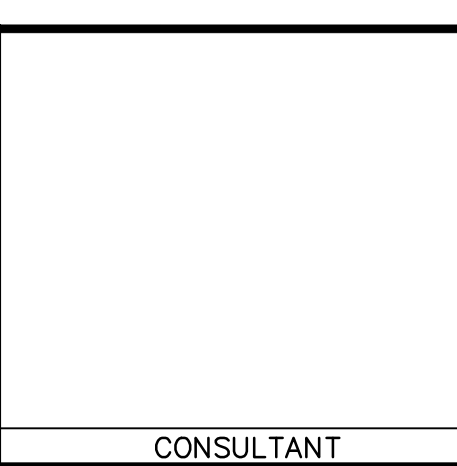
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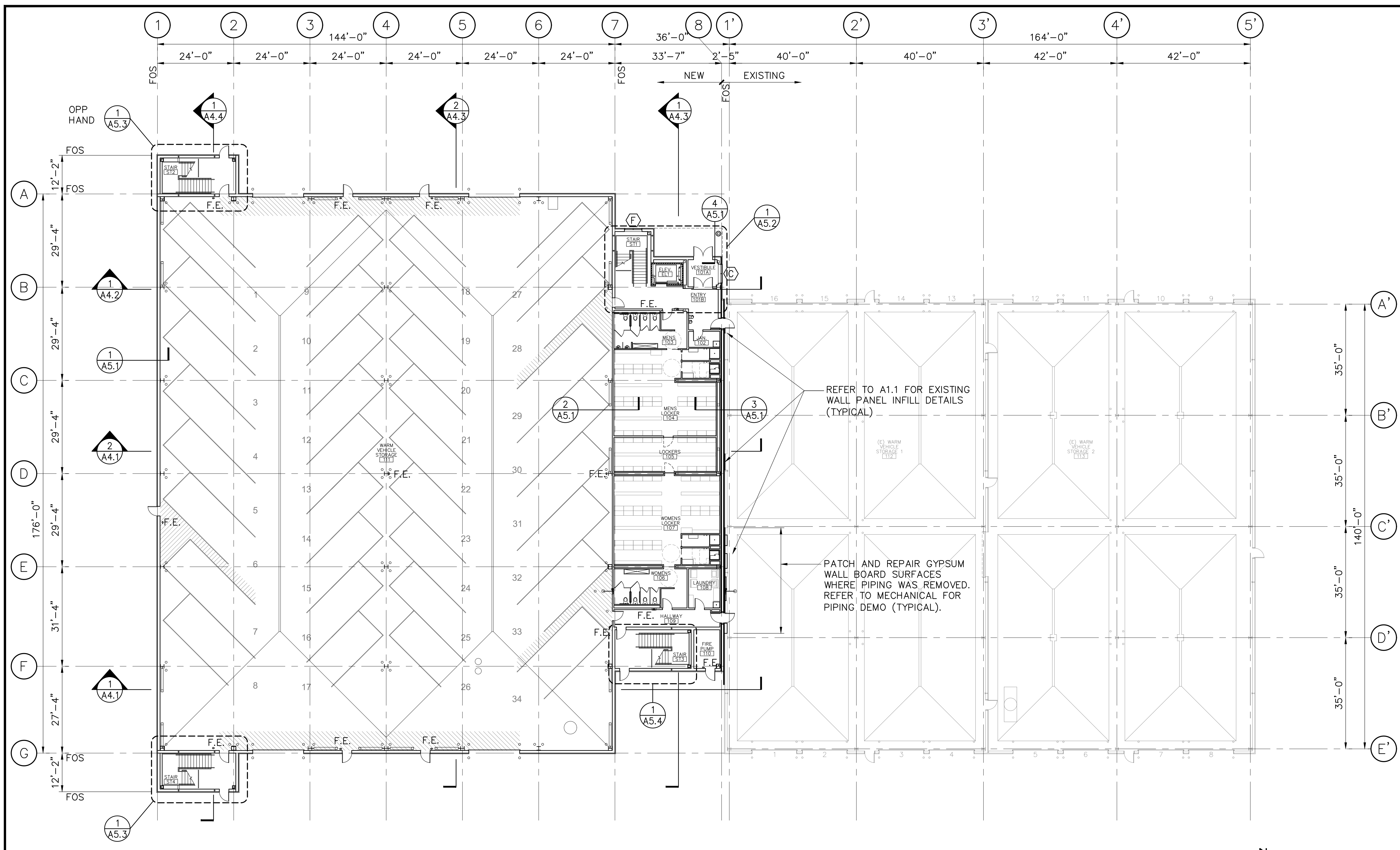
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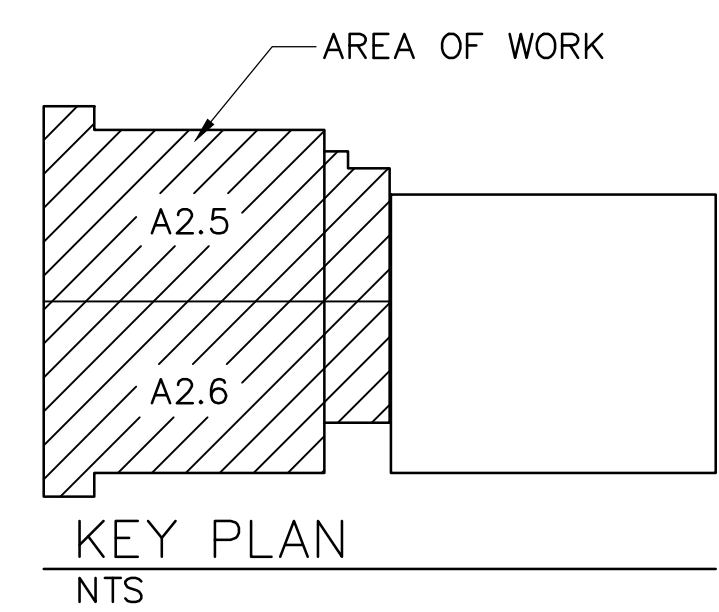




REFER TO A1.1 FOR EXISTING WALL PANEL INFILL DETAILS (TYPICAL)

PATCH AND REPAIR GYPSUM WALL BOARD SURFACES WHERE PIPING WAS REMOVED. REFER TO MECHANICAL FOR PIPING DEMO (TYPICAL).

1 FIRST FLOOR PLAN
1/16" = 1'-0"



REV	DATE	DESCRIPTION	BY

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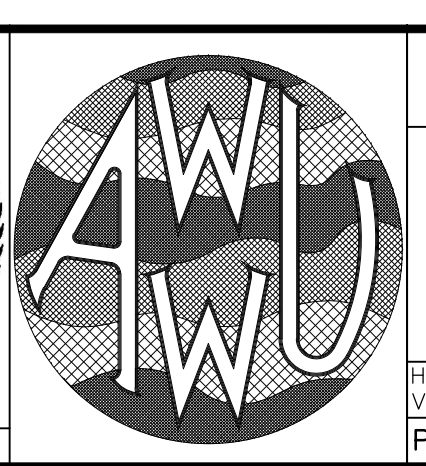
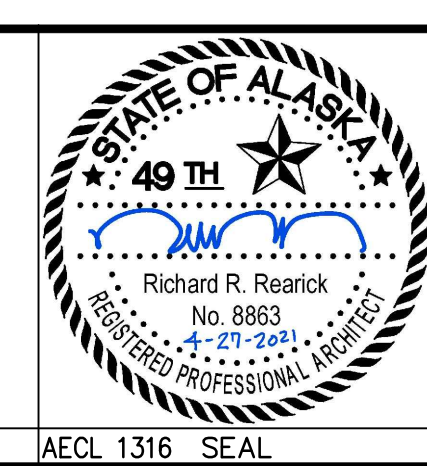
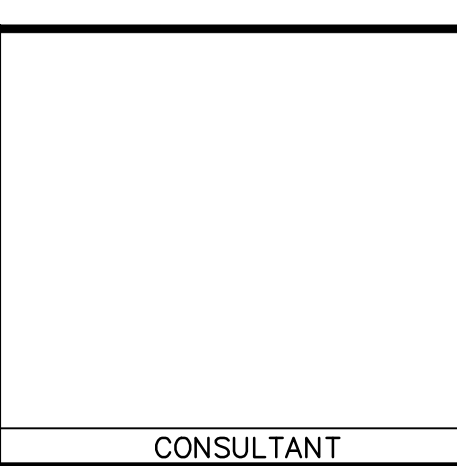
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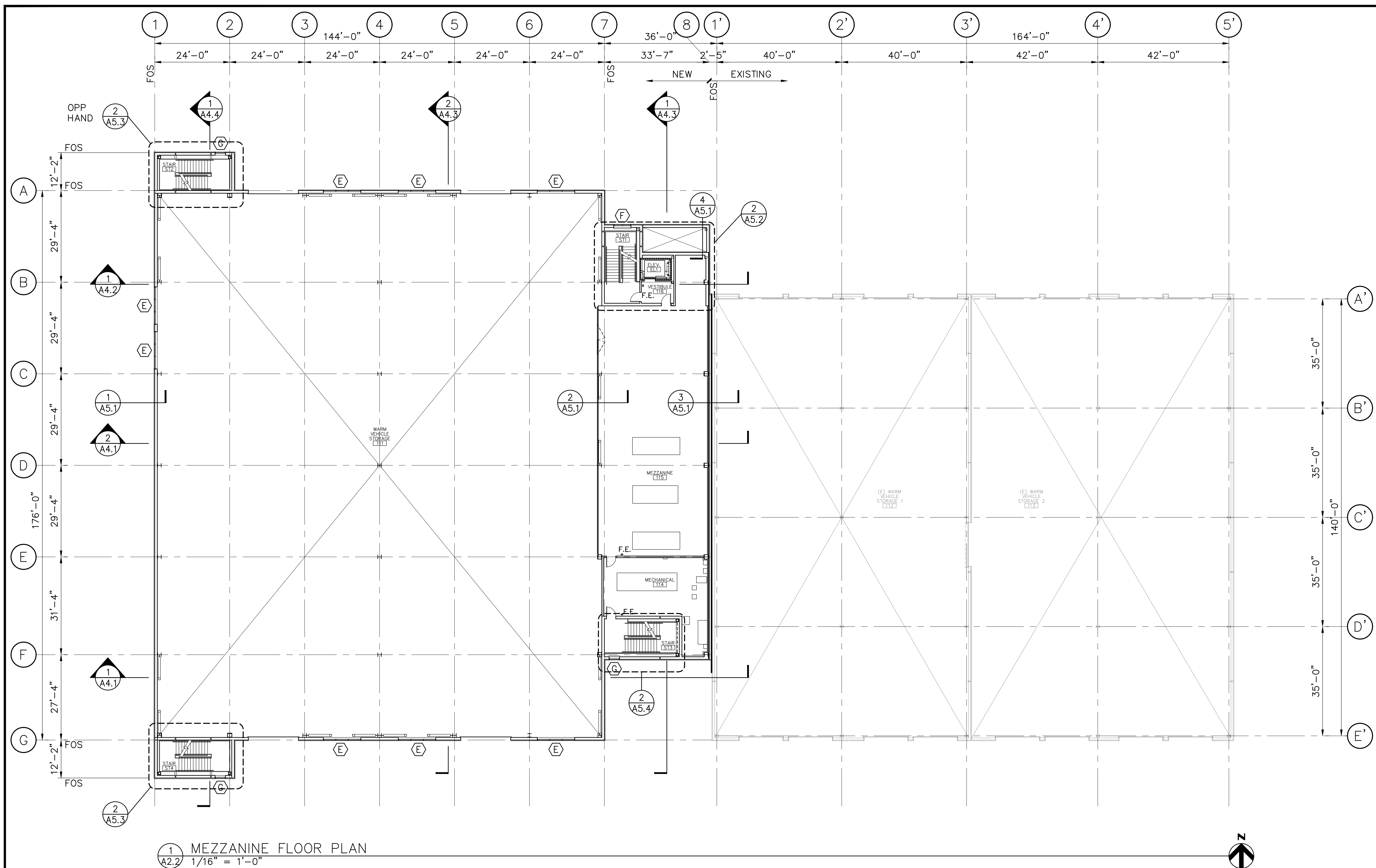
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

FIRST FLOOR PLAN

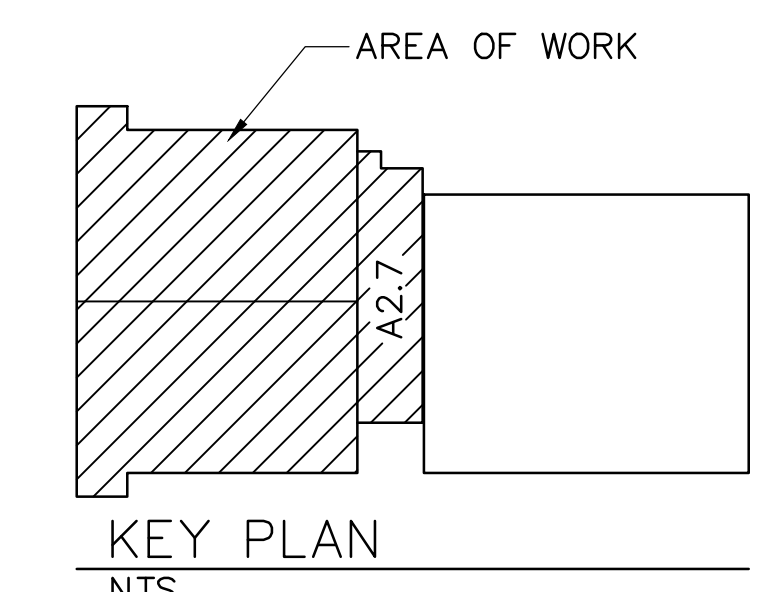
DWG
A2.1

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

SHEET 99 of 288



1 MEZZANINE FLOOR PLAN
A2.2 1/16" = 1'-0"



VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

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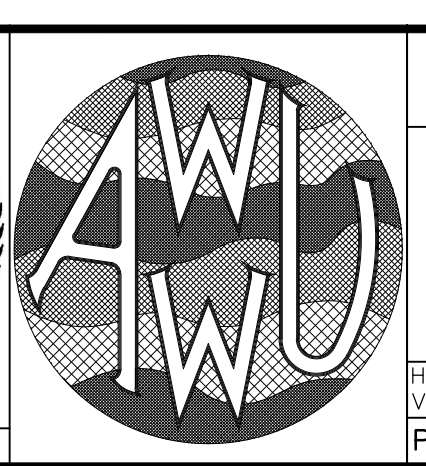
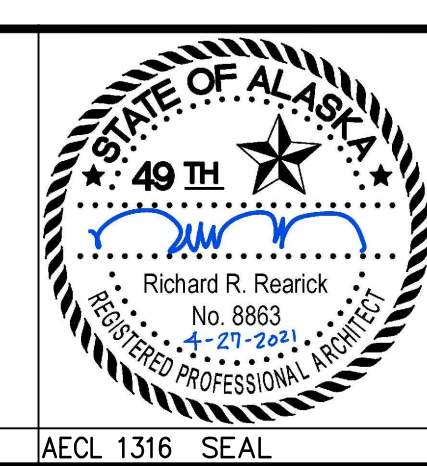
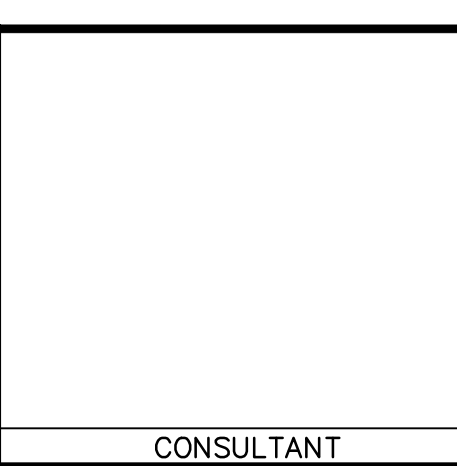
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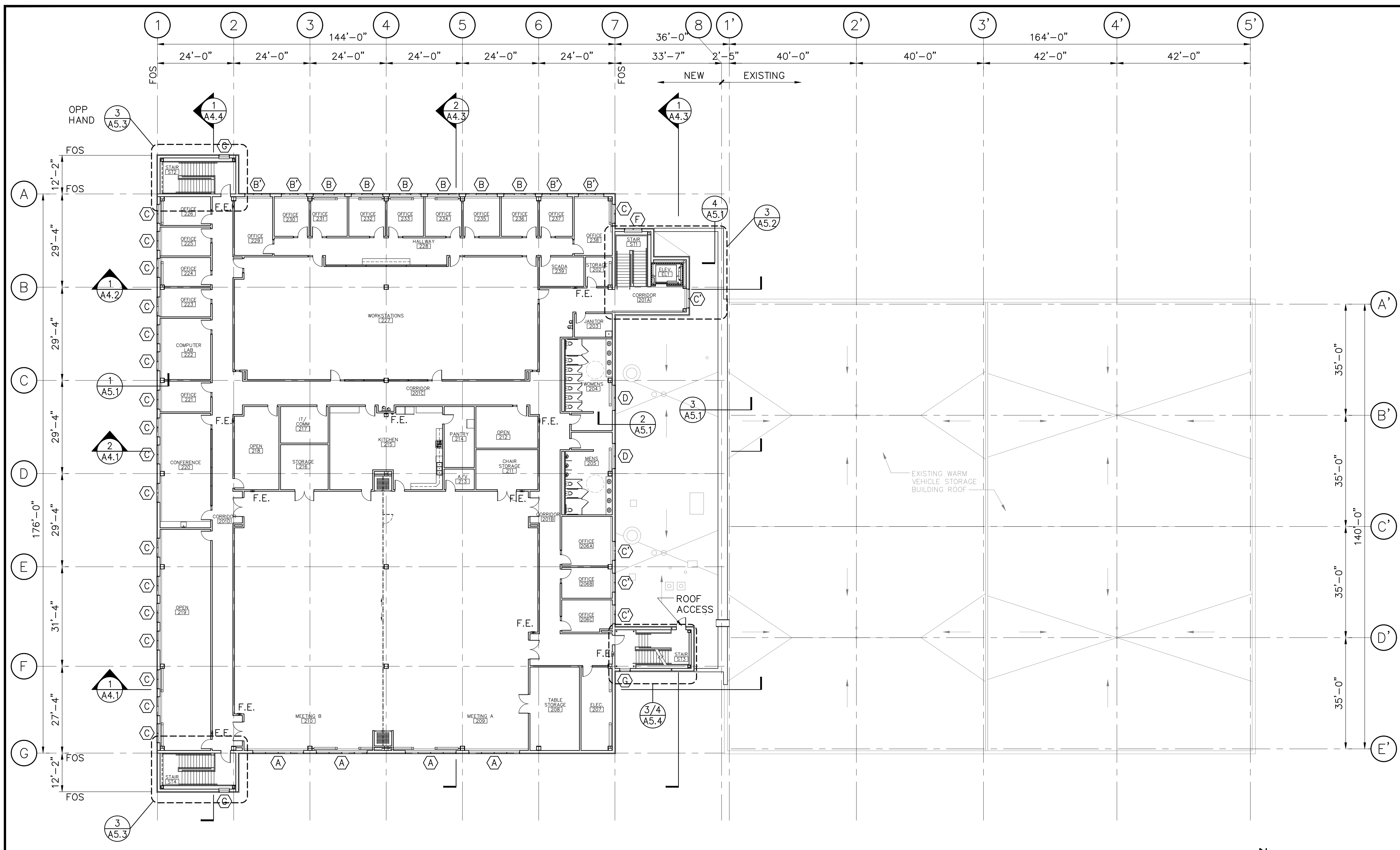
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MEZZANINE FLOOR PLAN

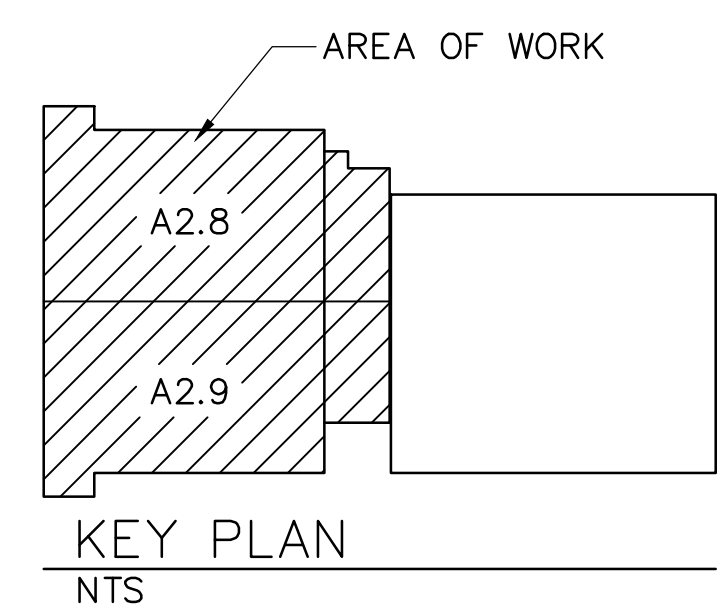
DWG
A2.2

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

SHEET 100 of 288



1 SECOND FLOOR PLAN
A2.3 1/16" = 1'-0"



VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY

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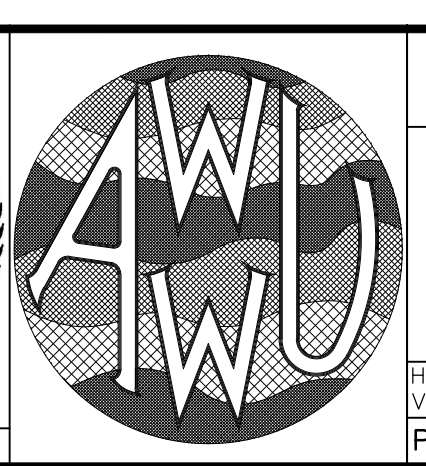
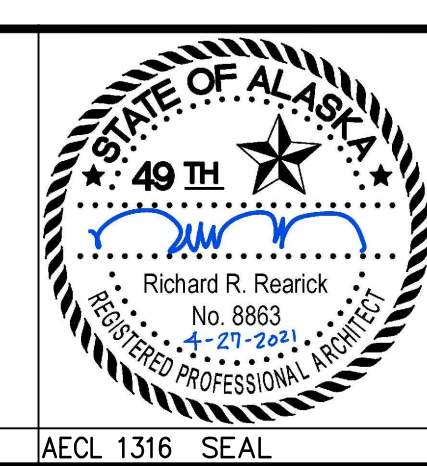
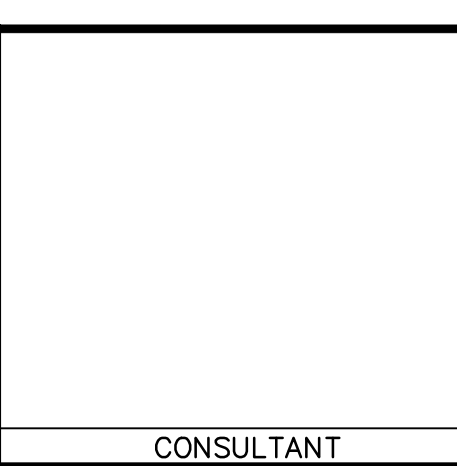
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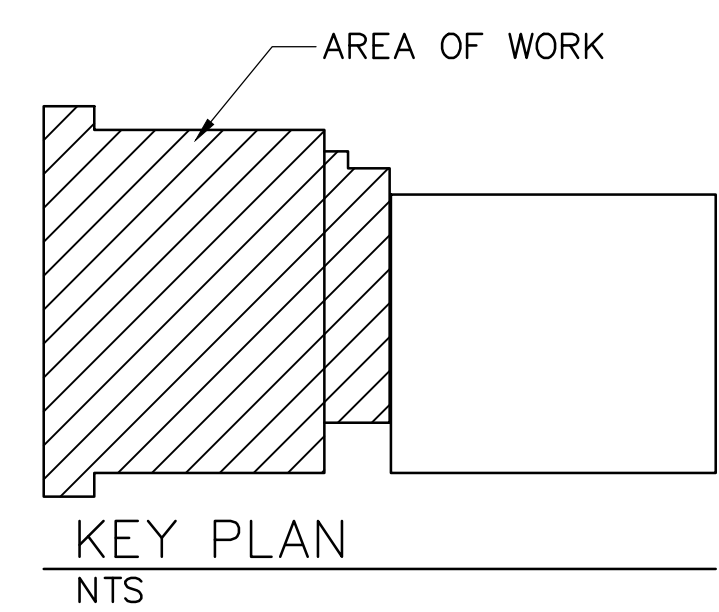
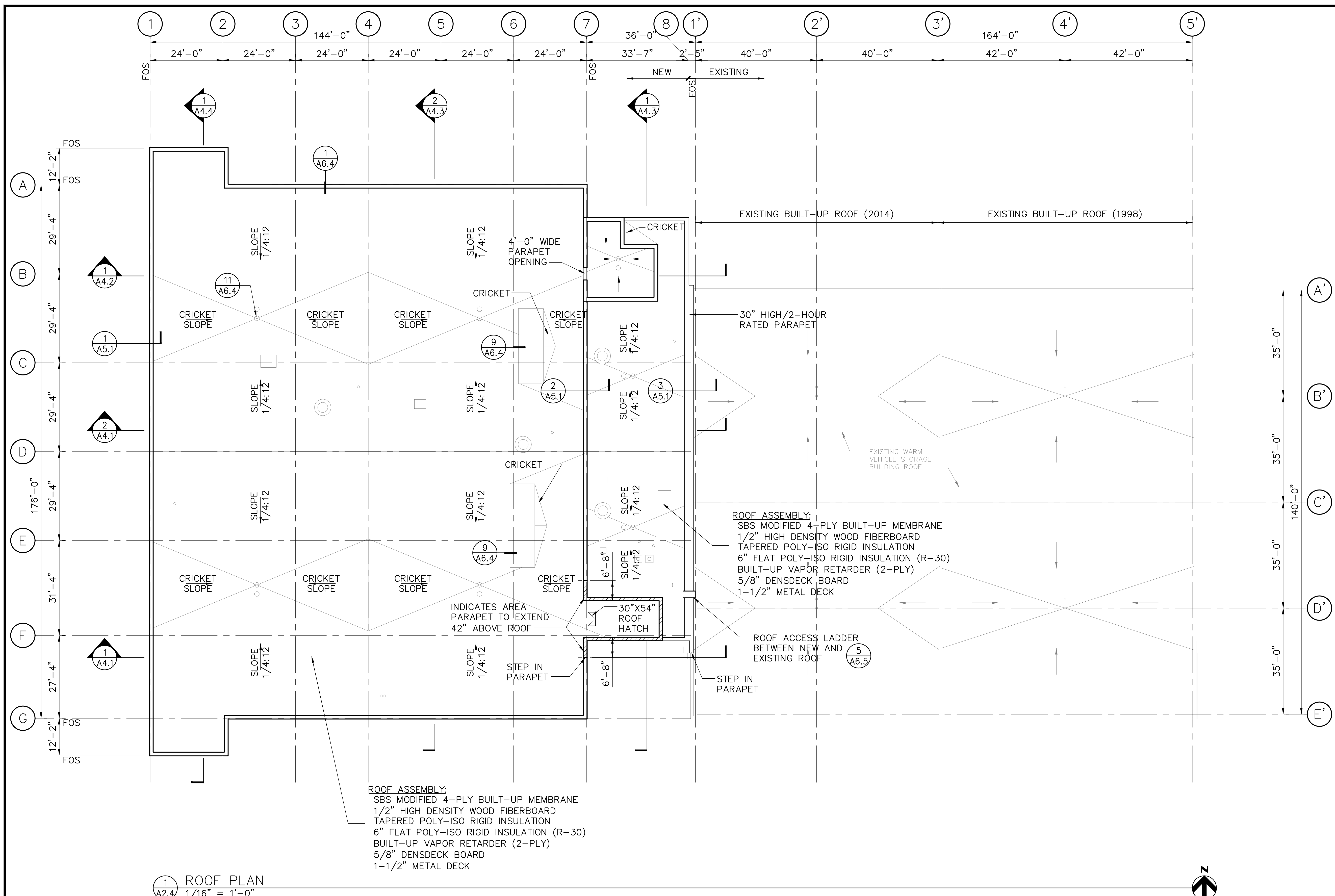
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

SECOND FLOOR PLAN

DWG **A2.3**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

SHEET 101 of 288



VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

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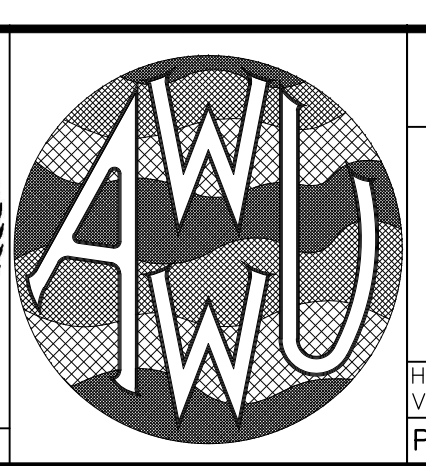
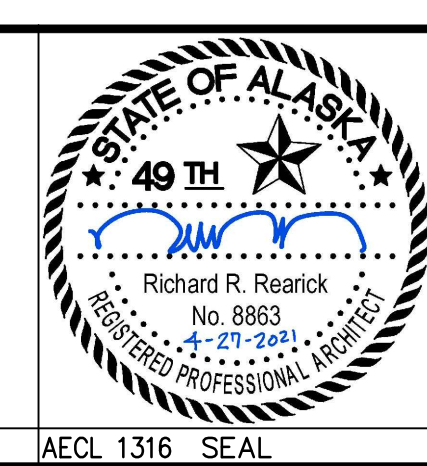
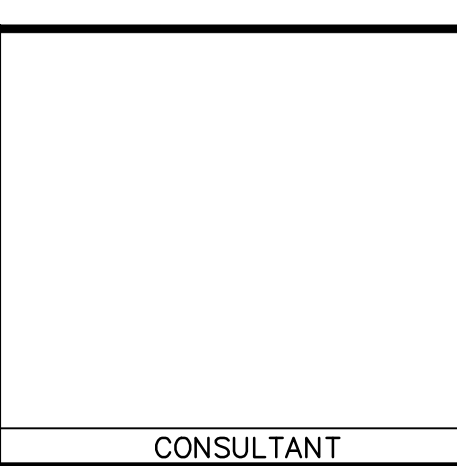
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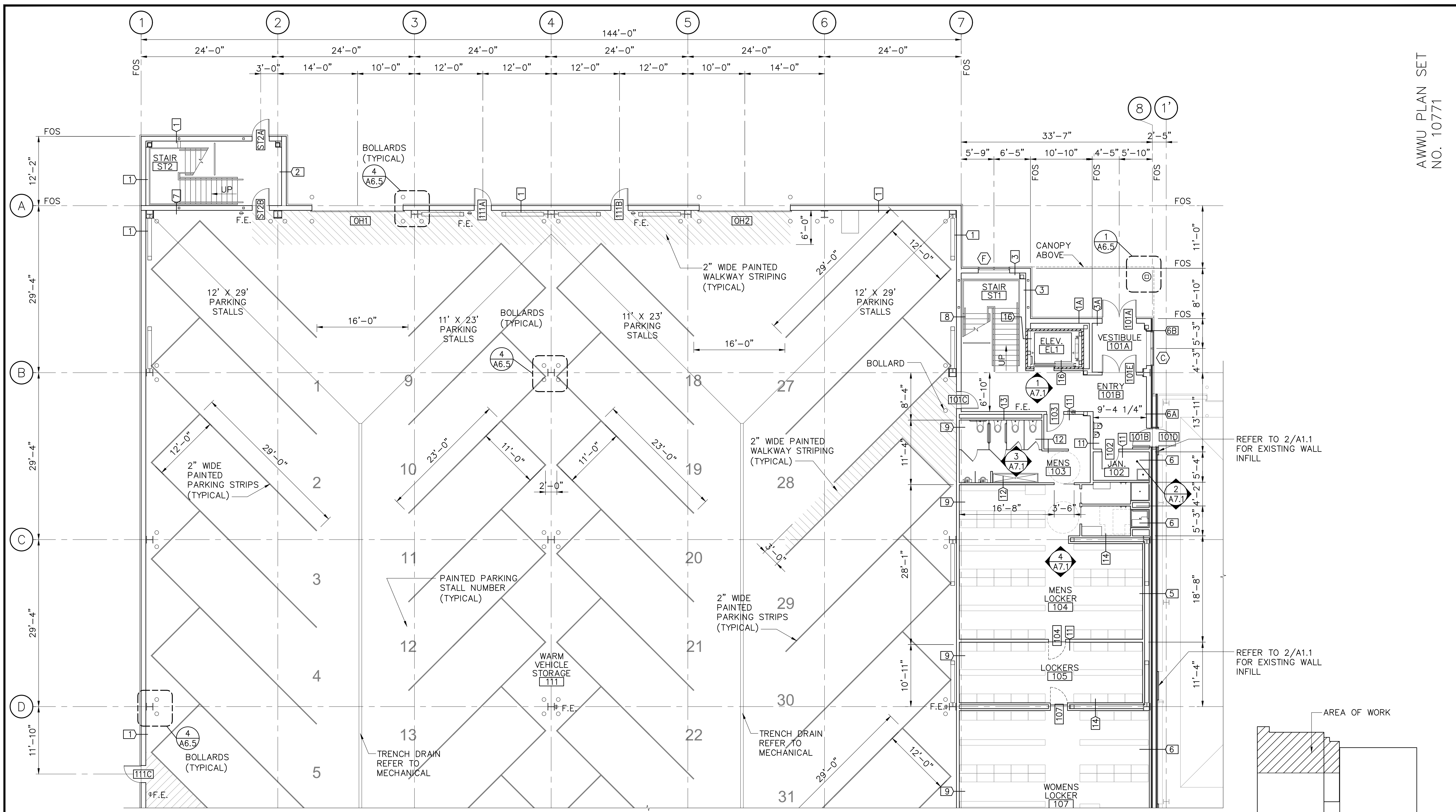
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

ROOF PLAN

DWG
A2.4

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

SHEET 102 of 288

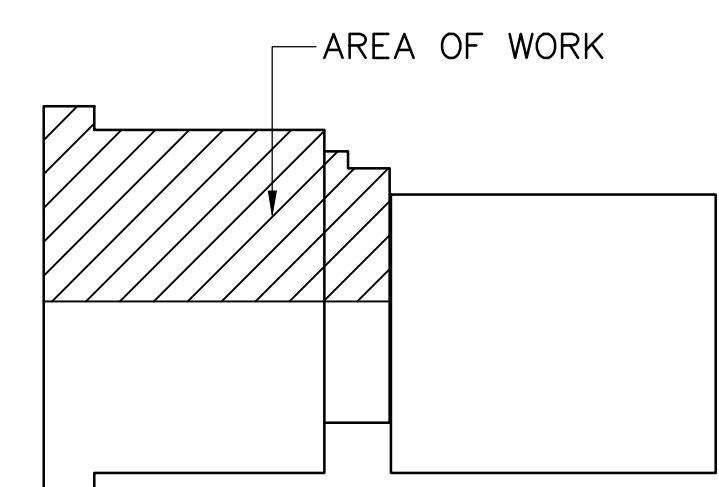


1 ENLARGED FIRST FLOOR PLAN - NORTH AREA
A2.5 1/8" = 1'-0"

REFER TO A2.0 FOR WALL TYPES

REFER TO 2/A1.1 FOR EXISTING WALL INFILL

REFER TO 2/A1.1 FOR EXISTING WALL INFILL



KEY PLAN
NTS

VERIFY SCALE			
REV	DATE	DESCRIPTION	BY

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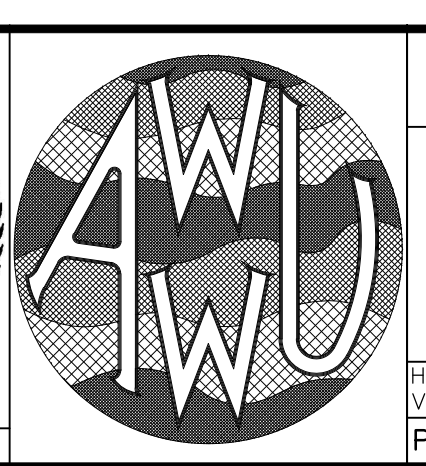
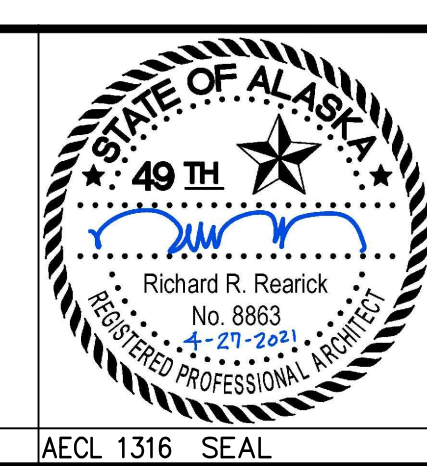
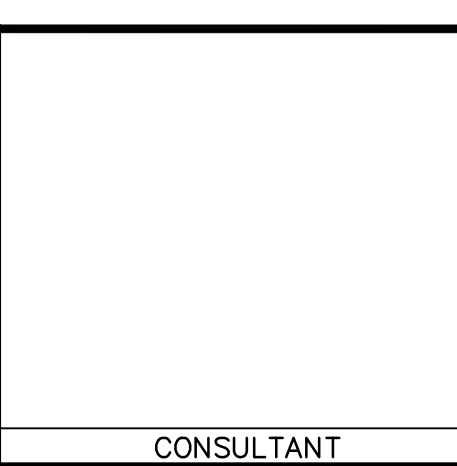
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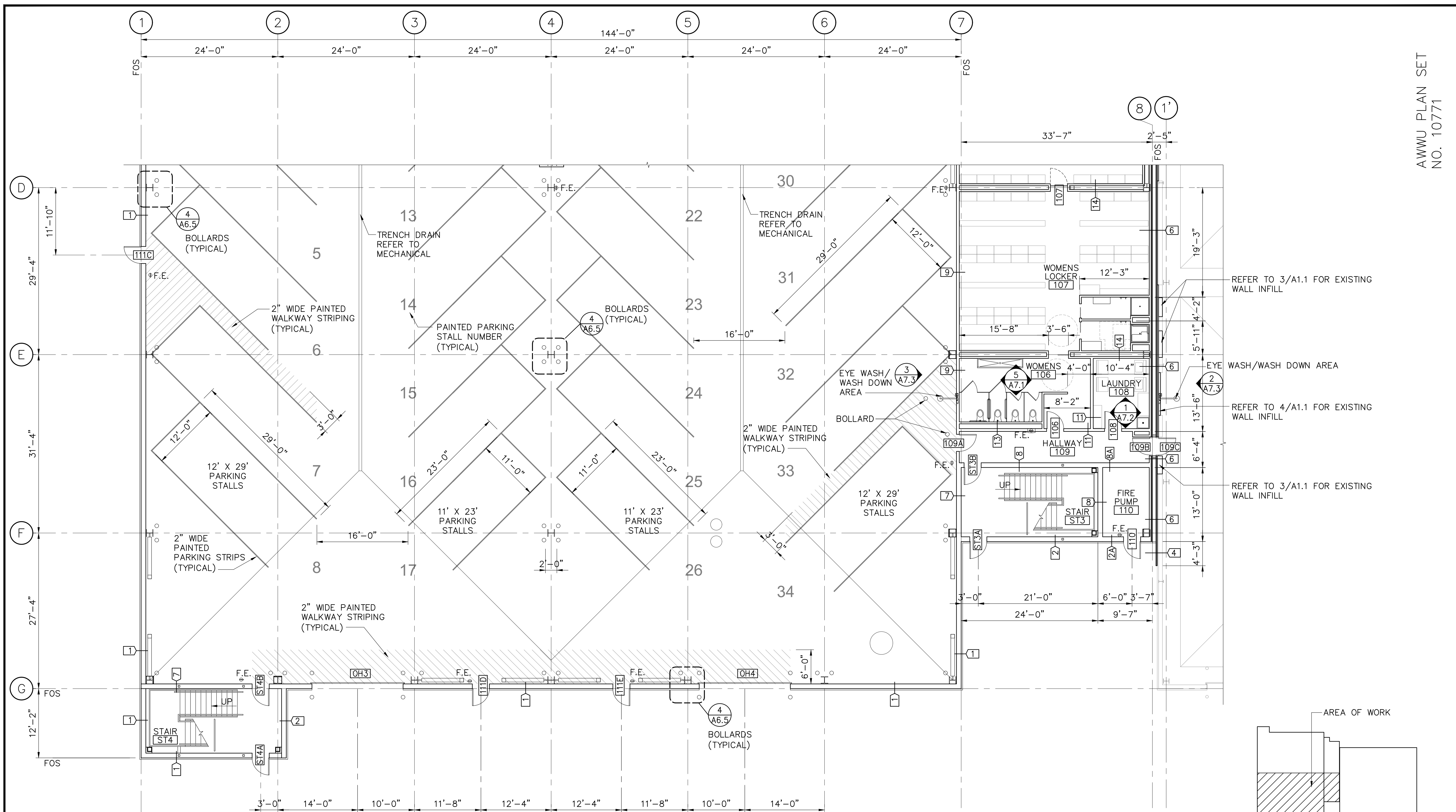
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

**ENLARGED FIRST FLOOR PLAN
NORTH AREA**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

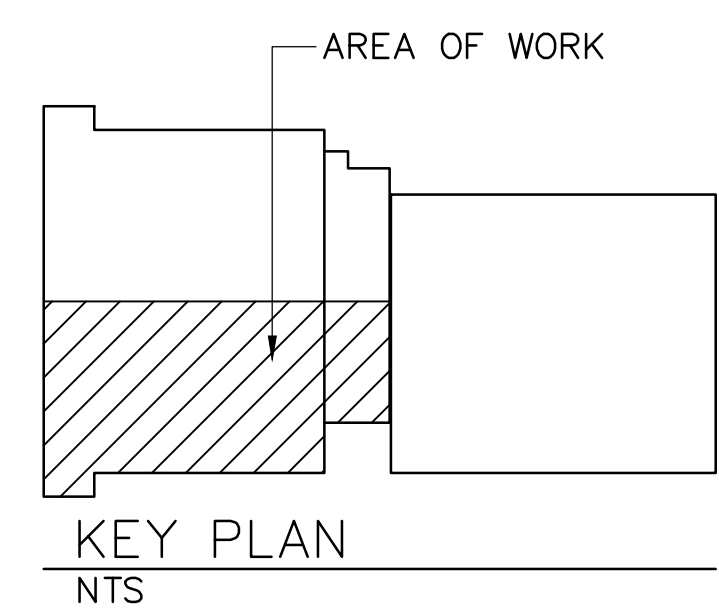
DWG A2.5

SHEET 103 of 288



1 ENLARGED FIRST FLOOR PLAN - SOUTH AREA
A2.6 1/8" = 1'-0"

REFER TO A2.0 FOR WALL TYPES



REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

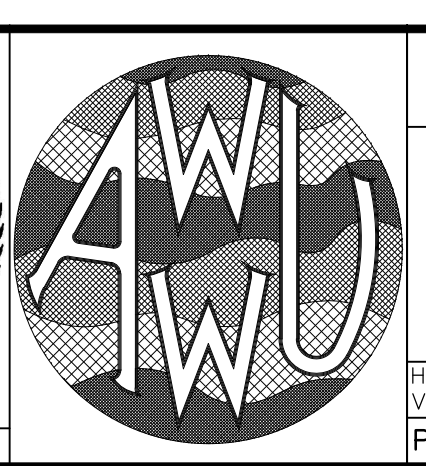
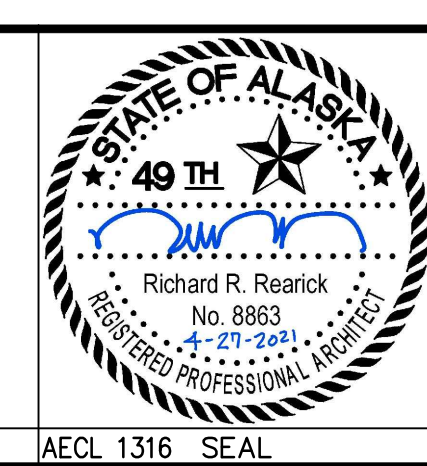
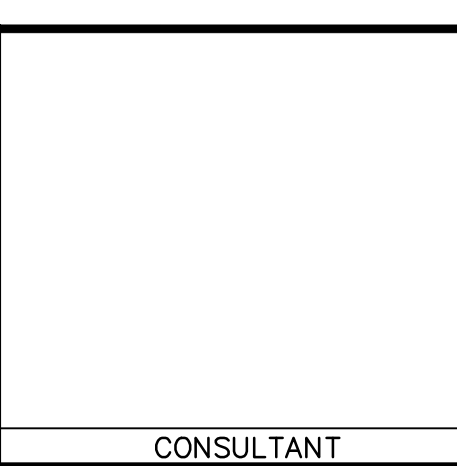
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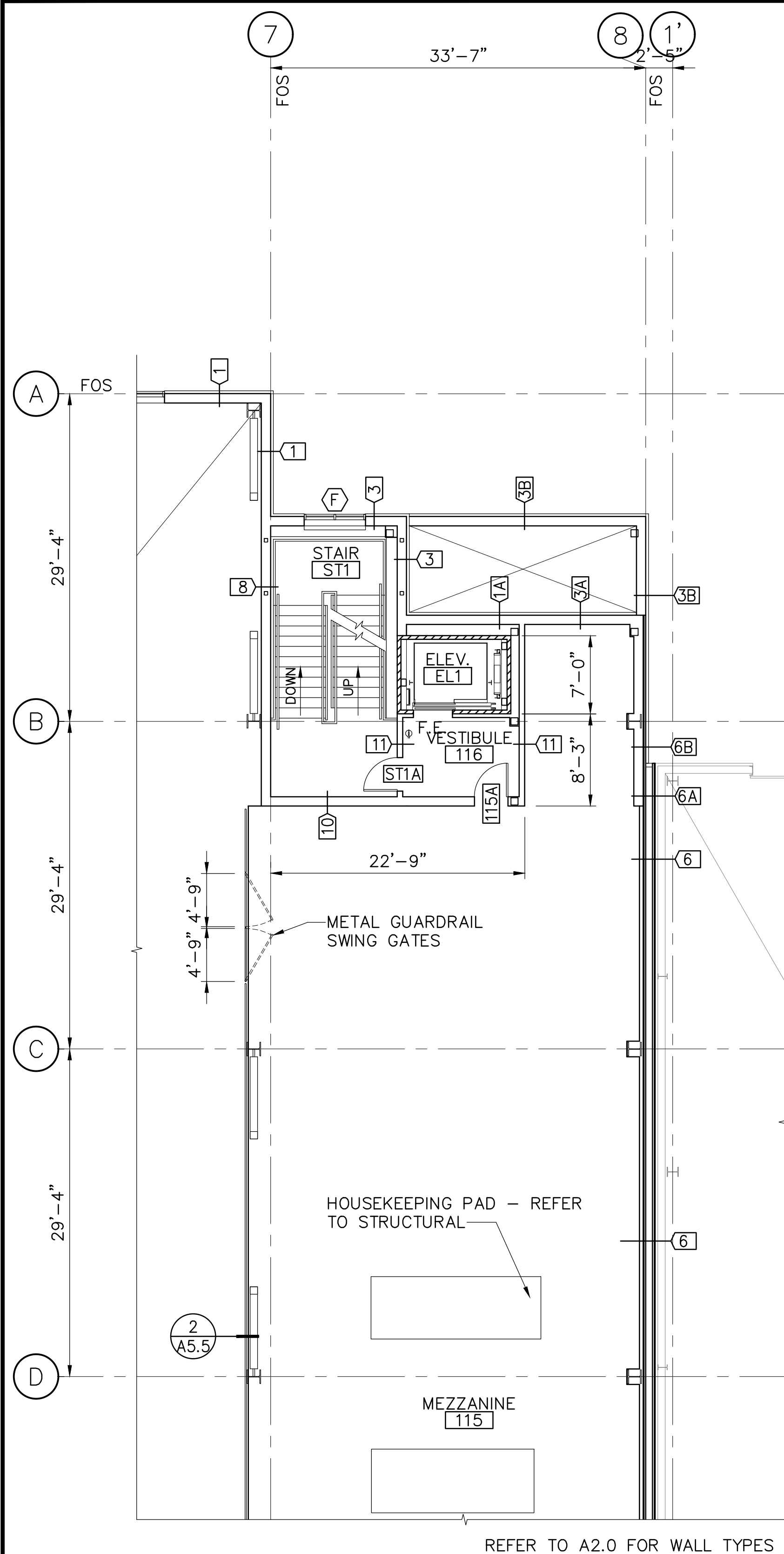
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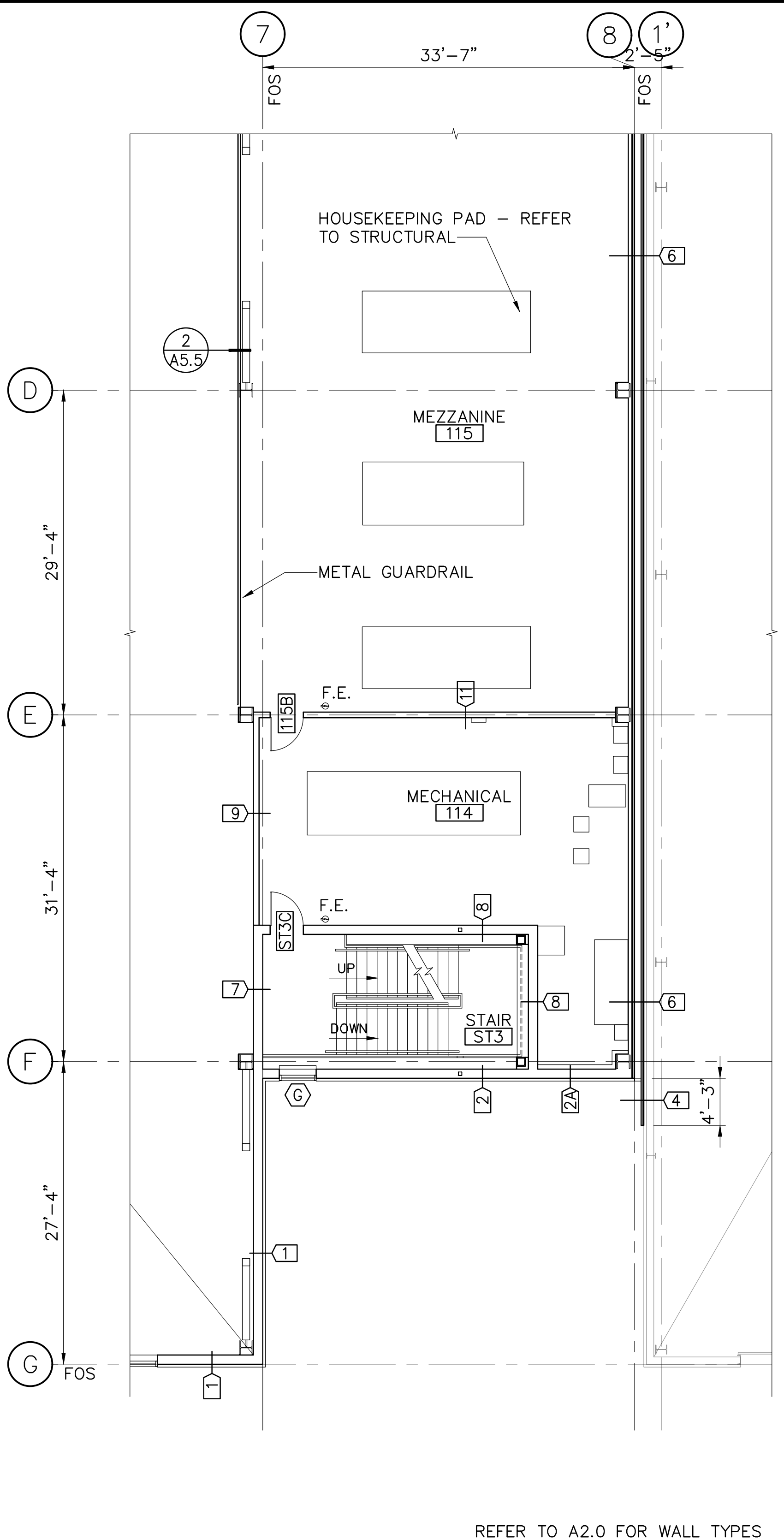
**ENLARGED FIRST FLOOR PLAN
 SOUTH AREA**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775

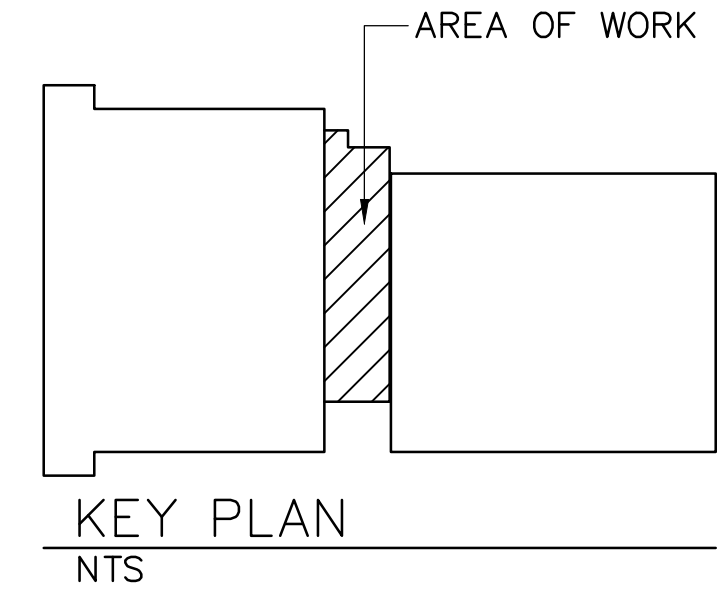
DWG
A2.6
 SHEET 104 of 288



1
A2.7
ENLARGED MEZZANINE
FLOOR PLAN - NORTH AREA
1/8" = 1'-0"



2
A2.7
ENLARGED MEZZANINE
FLOOR PLAN - SOUTH AREA
1/8" = 1'-0"



REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

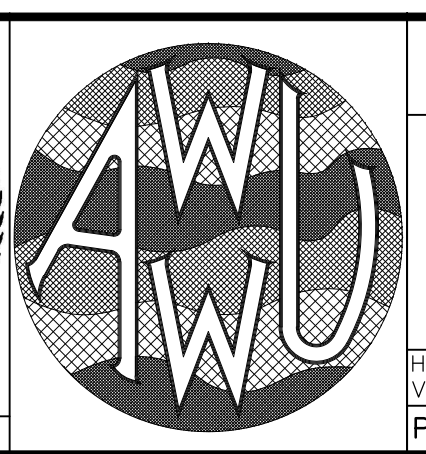
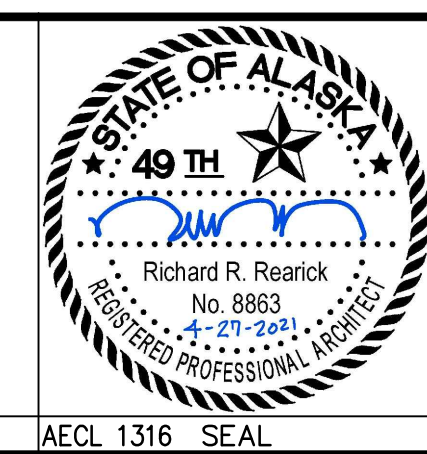
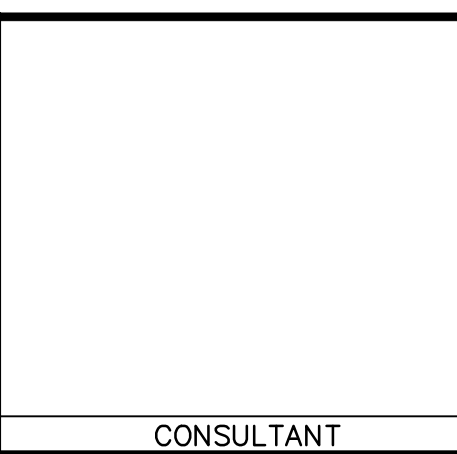
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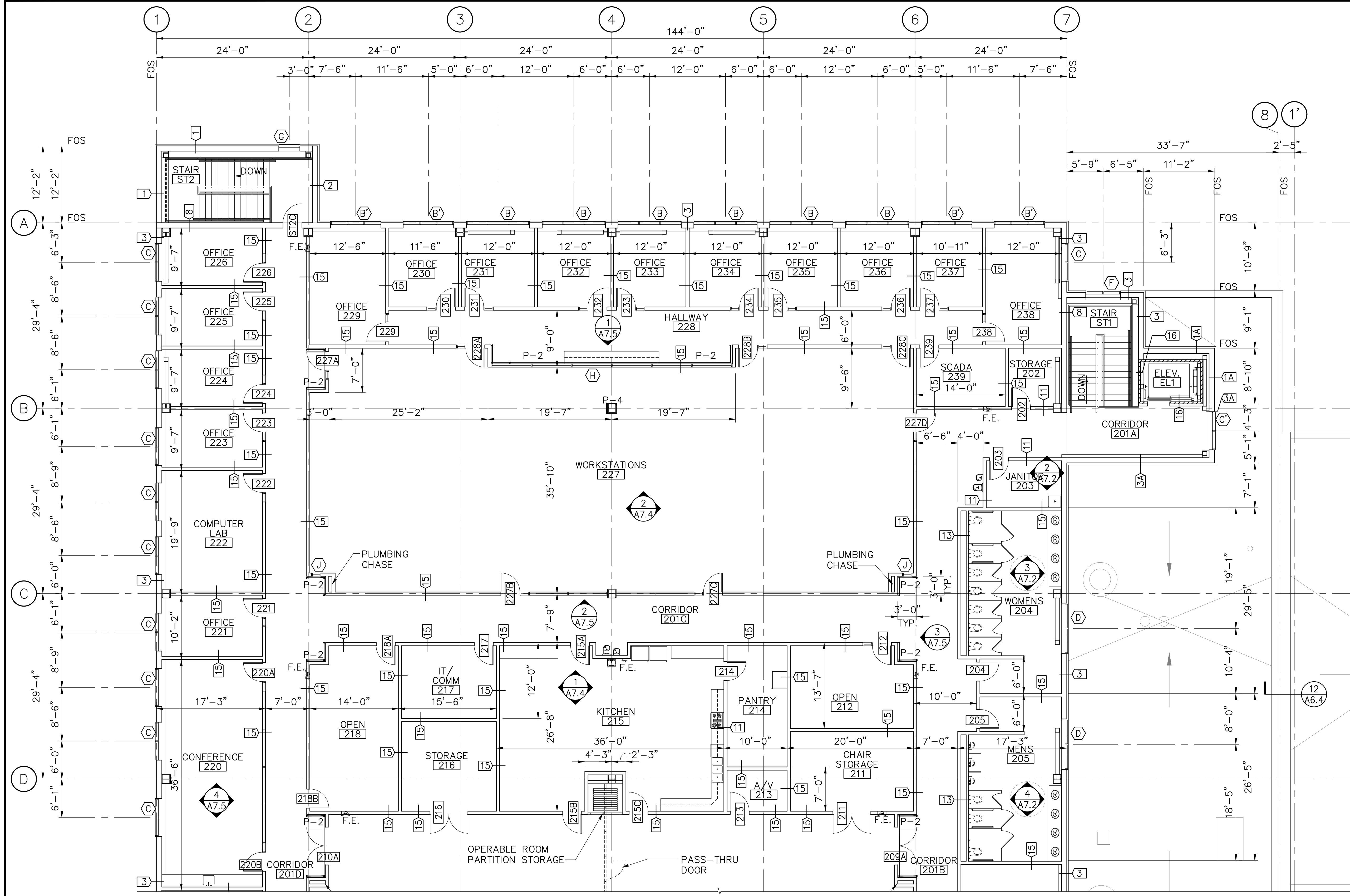
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**ENLARGED MEZZANINE FLOOR PLAN
NORTH / SOUTH AREA**

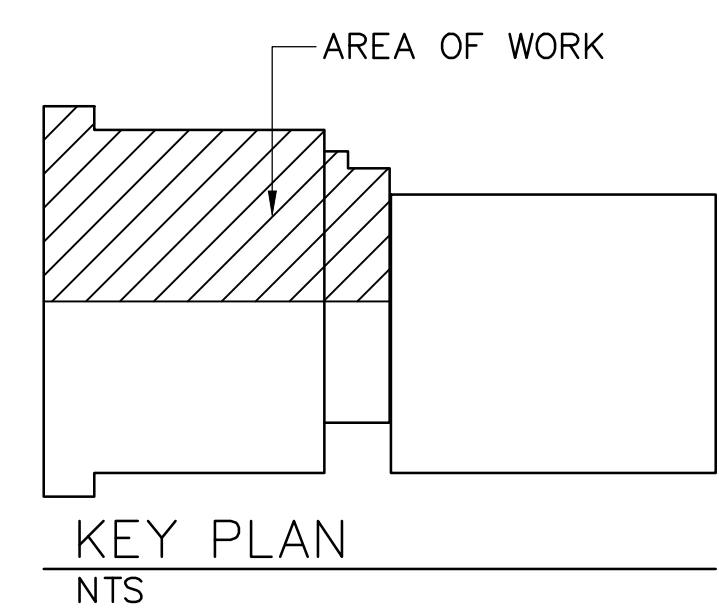
HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG
A2.7

SHEET 105 of 288



NOTES:
1. ALL INTERIOR WALL ASSEMBLIES TO EXTEND TO UNDERSIDE OF METAL DECK.



1 ENLARGED SECOND FLOOR PLAN - NORTH AREA
A2.8 1/8" = 1'-0"

REFER TO A2.0 FOR WALL TYPES

REV	DATE	DESCRIPTION	BY

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STATE OF ALASKA
49th
Richard R. Rearick
No. 8863
4-21-2021
REGISTERED PROFESSIONAL ARCHITECT

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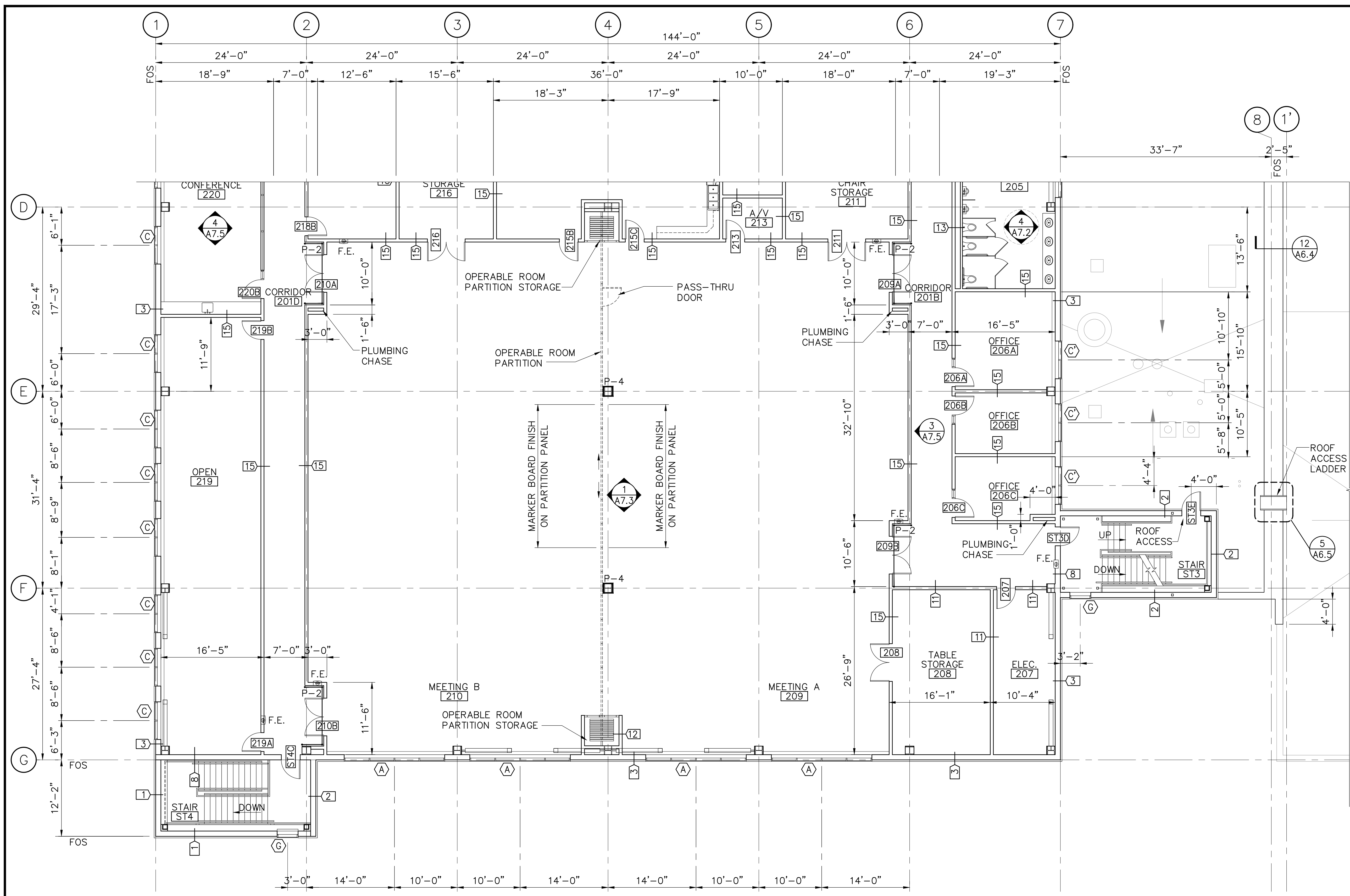
**ENLARGED SECOND FLOOR PLAN
NORTH AREA**

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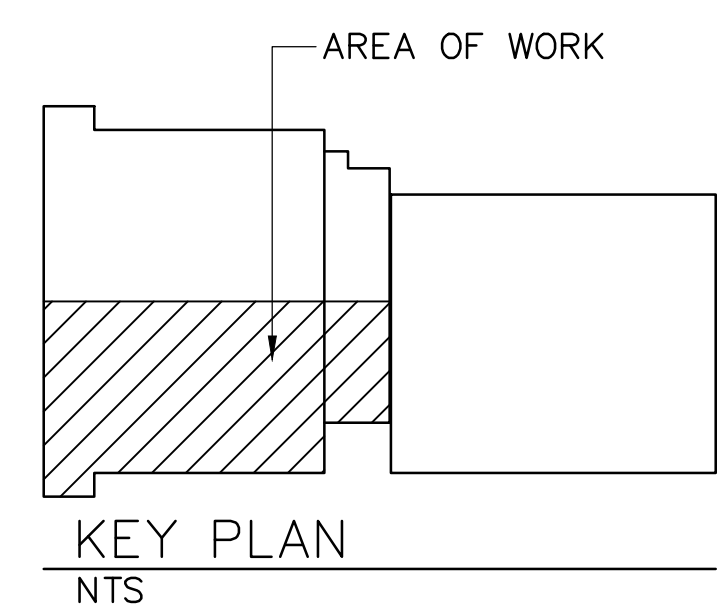
HORIZ. SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT. SCALE: N/A PROJ. ID.: WW.H7775

DWG A2.8

SHEET 106 of 288



NOTES:
1. ALL INTERIOR WALL ASSEMBLIES TO EXTEND TO UNDERSIDE OF METAL DECK.



1 ENLARGED SECOND FLOOR PLAN - SOUTH AREA
A2.9 1/8" = 1'-0"

REFER TO A2.0 FOR WALL TYPES

REV	DATE	DESCRIPTION	BY

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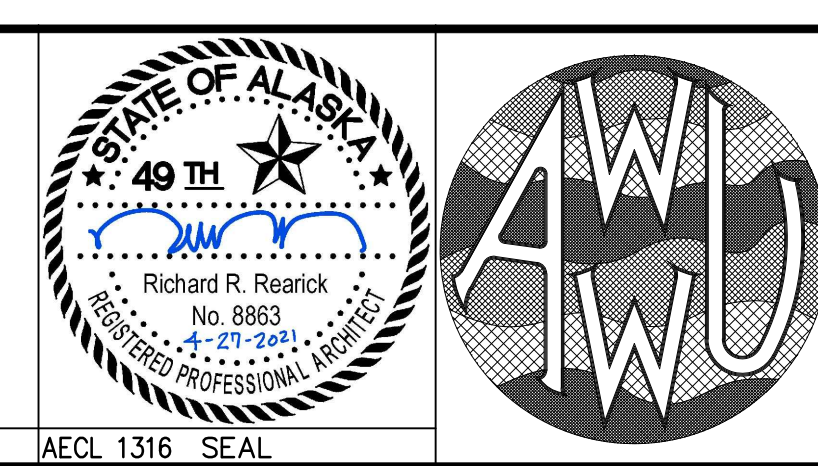
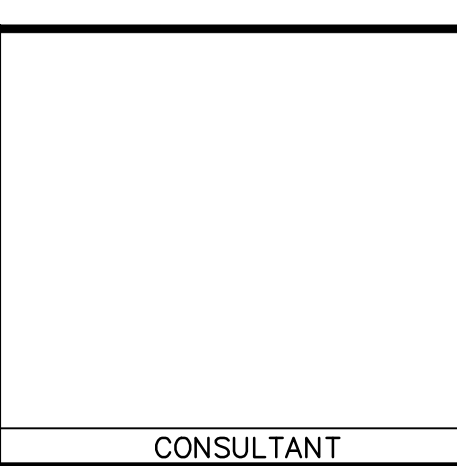
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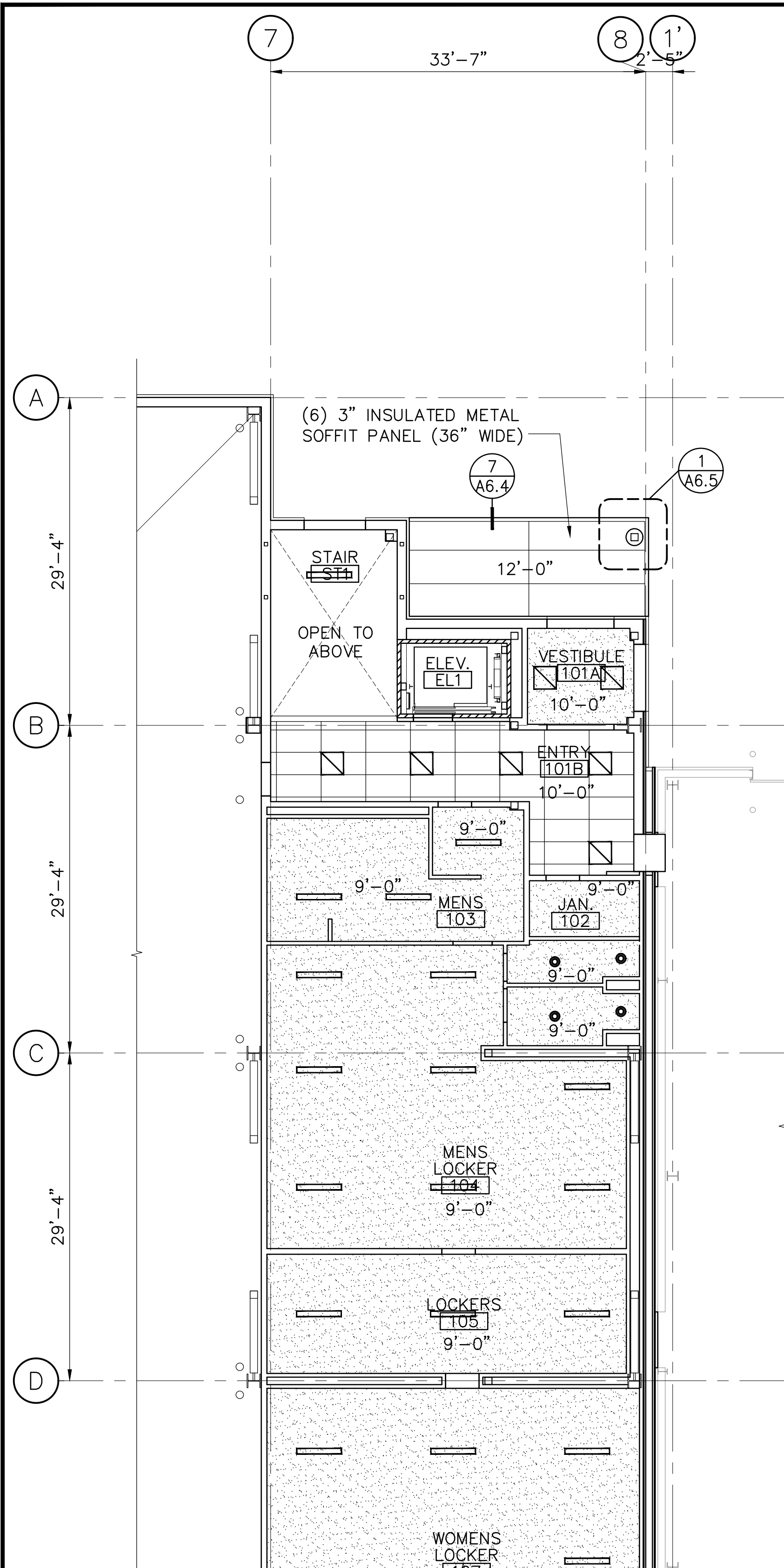
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**ENLARGED SECOND FLOOR PLAN
SOUTH AREA**

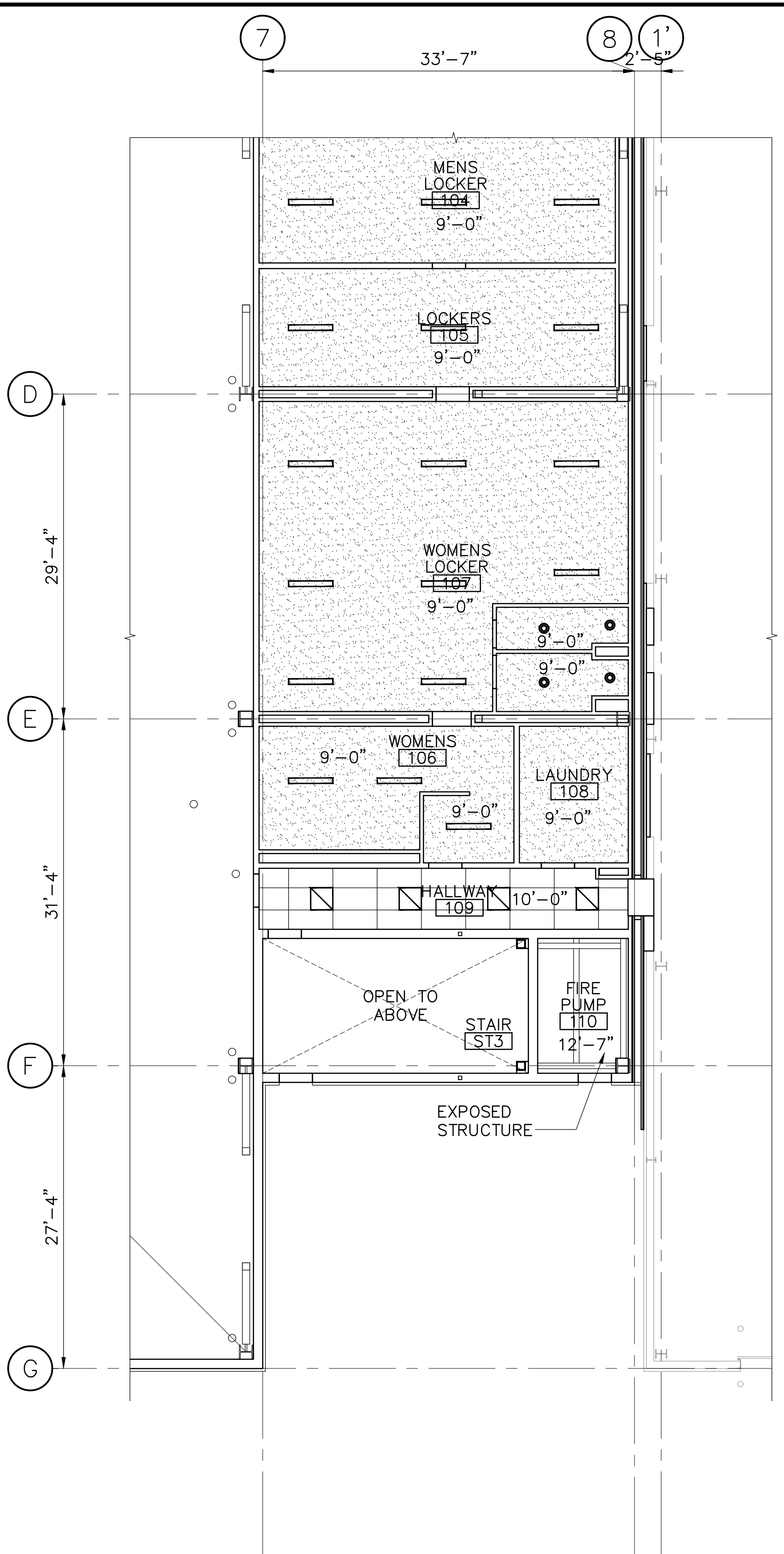
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VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG A2.9

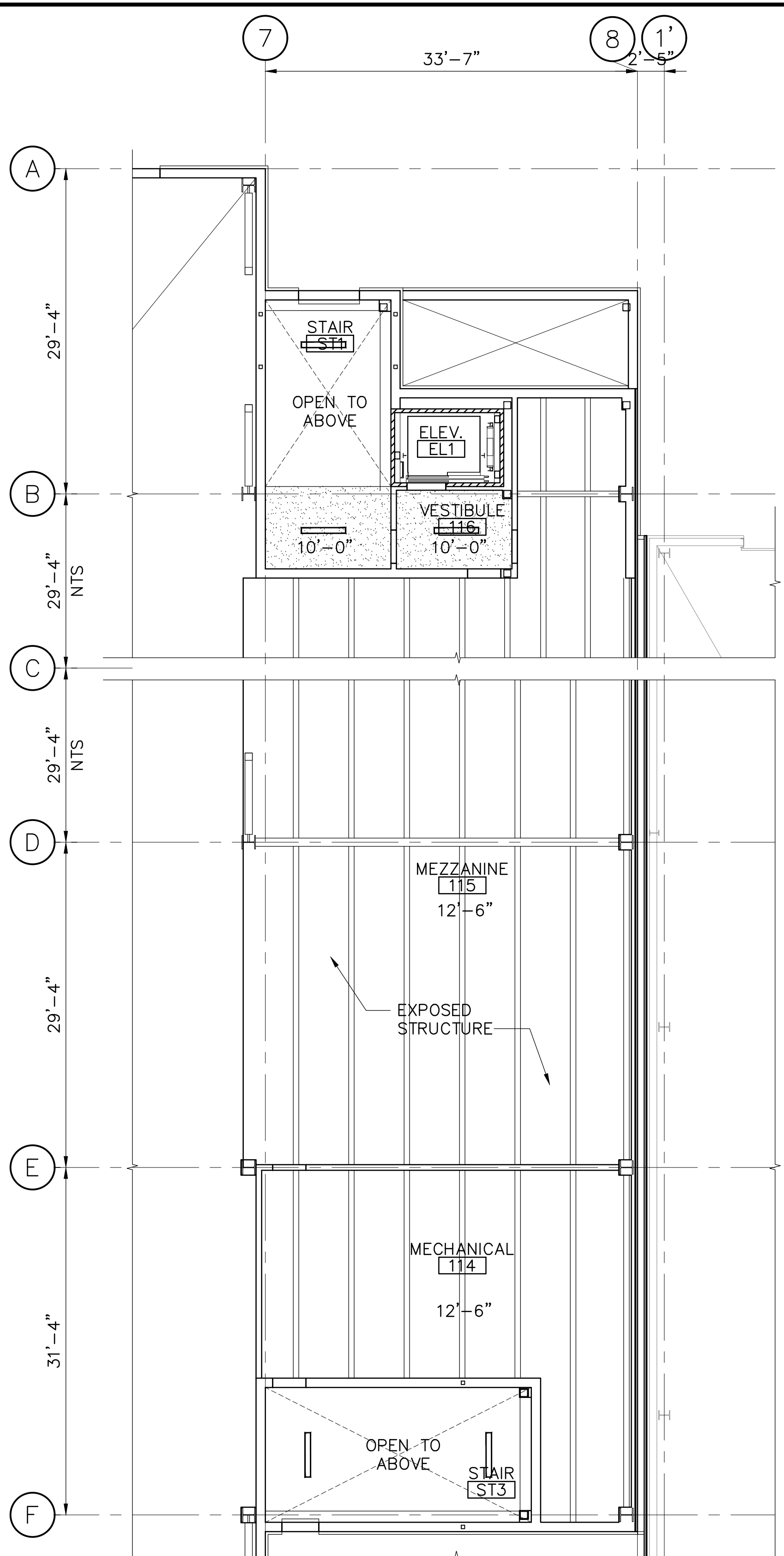
SHEET 107 of 288



1
A2.10 ENLARGED FIRST FLOOR REFLECTED CEILING PLAN—NORTH AREA
1/8" = 1'-0"



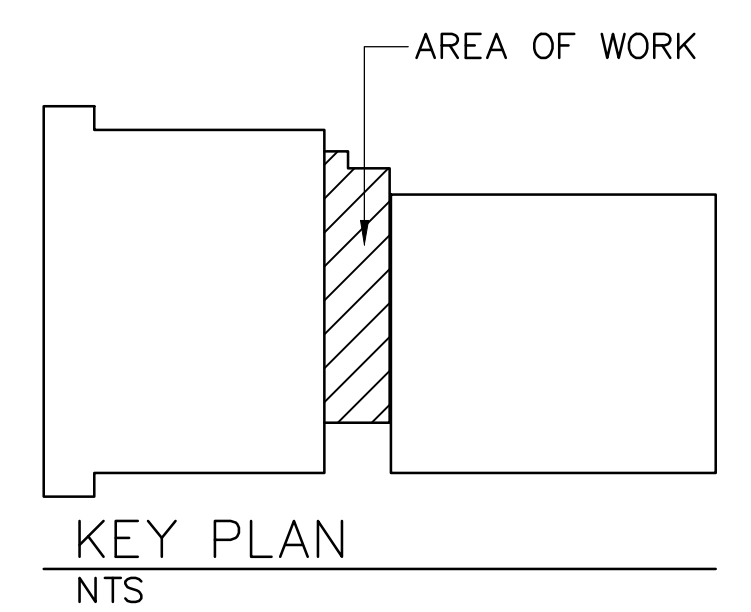
2
A2.10 ENLARGED FIRST FLOOR REFLECTED CEILING PLAN—SOUTH AREA
1/8" = 1'-0"



3
A2.10 ENLARGED MEZZANINE REFLECTED CEILING PLAN
1/8" = 1'-0"

LEGEND

- 24" X 48" ACOUSTICAL CEILING TILE
- GYPSUM BOARD CEILING
- OPEN TO STRUCTURE
- X'-X" INDICATES FINISH CEILING HEIGHT ABOVE FINISH FLOOR



VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

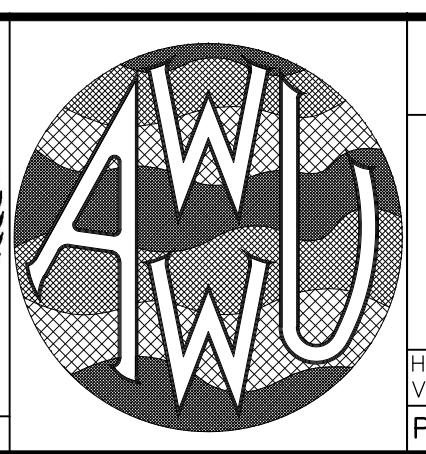
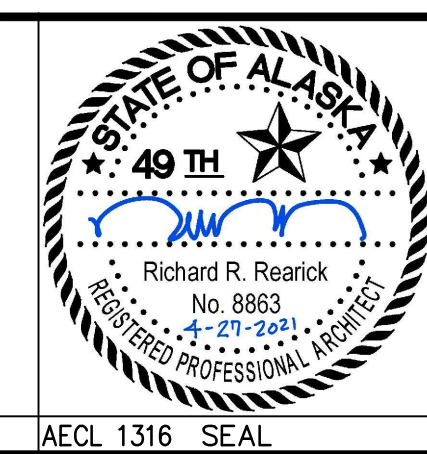
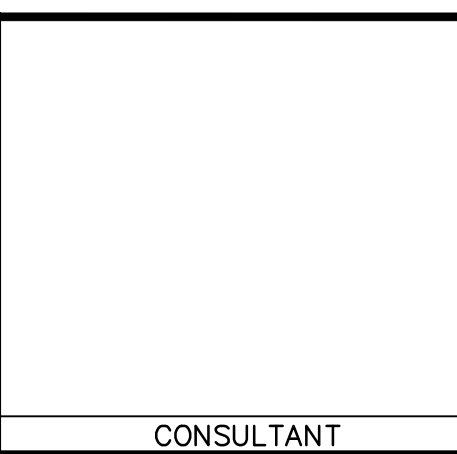
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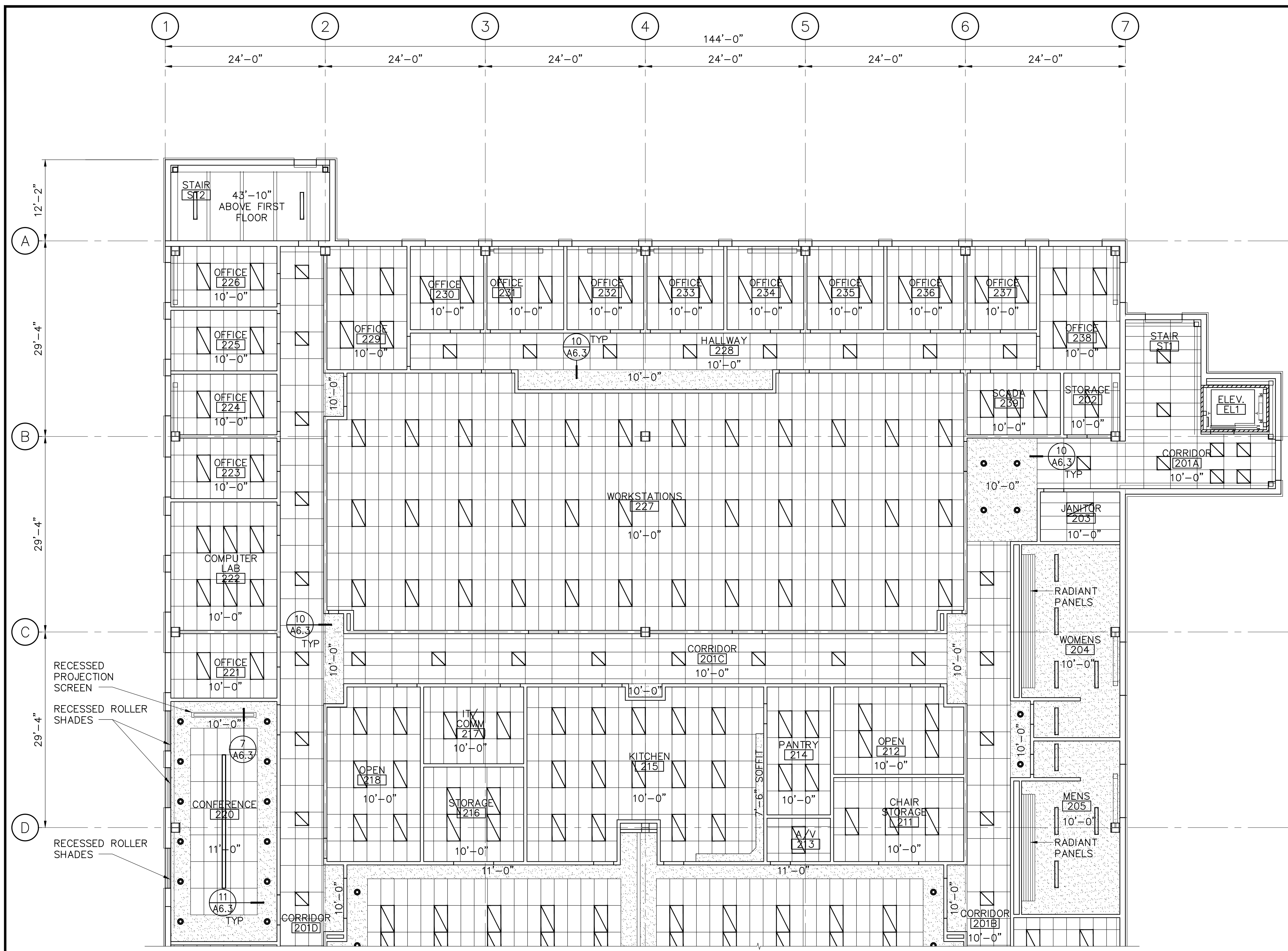
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ENLARGED FIRST FLOOR & MEZZANINE REFLECTED CEILING PLAN NORTH / SOUTH AREA

DWG A2.10

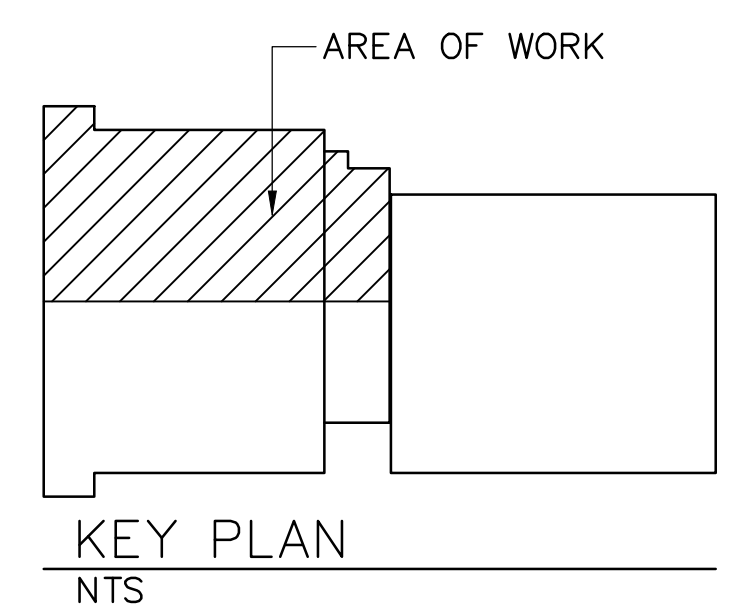
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LEGEND

- 24" X 48" ACOUSTICAL CEILING TILE
- GYPSUM BOARD CEILING
- OPEN TO STRUCTURE
- INDICATES FINISH CEILING HEIGHT ABOVE FINISH FLOOR



1 ENLARGED SECOND FLOOR REFLECTED CEILING PLAN – NORTH AREA
A2.11 1/8" = 1'-0"

VERIFY SCALE
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

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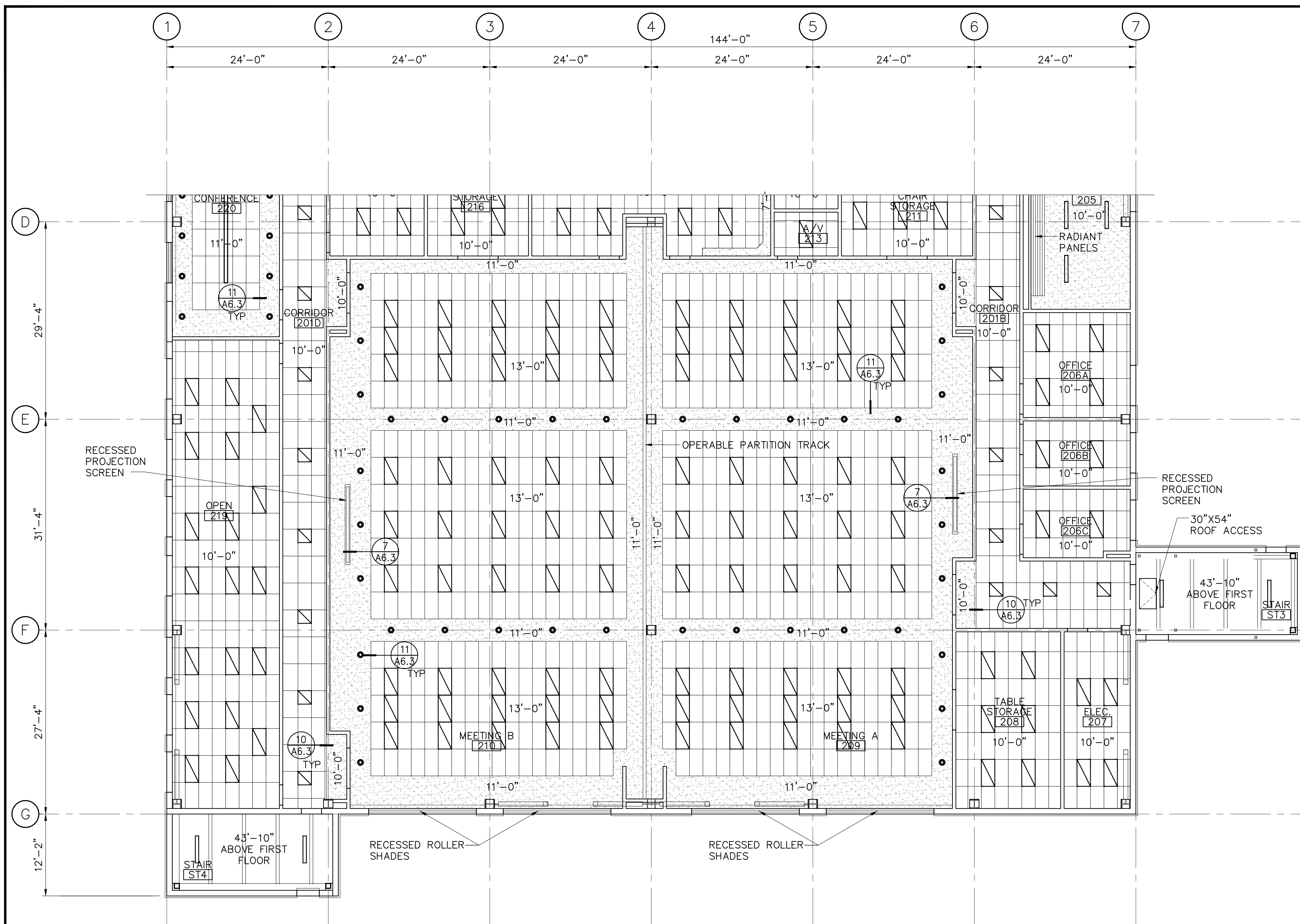
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ENLARGED SECOND FLOOR REFLECTED CEILING PLAN NORTH AREA

DWG
A2.11

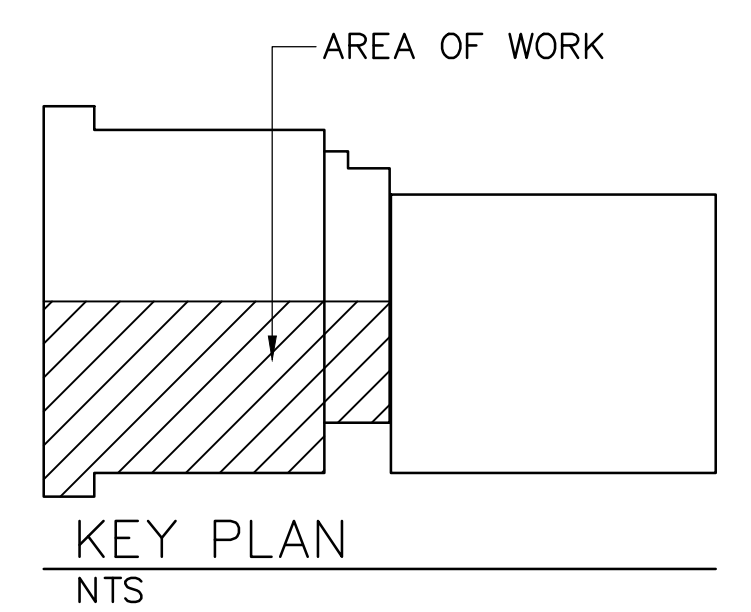
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SHEET 109 of 288

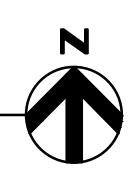


LEGEND

- 24" X 48" ACOUSTICAL CEILING TILE
- GYPSUM BOARD CEILING
- OPEN TO STRUCTURE
- INDICATES FINISH CEILING HEIGHT ABOVE FINISH FLOOR



1 ENLARGED SECOND FLOOR REFLECTED CEILING PLAN - SOUTH AREA
A2.12 1/8" = 1'-0"



VERIFY SCALE
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

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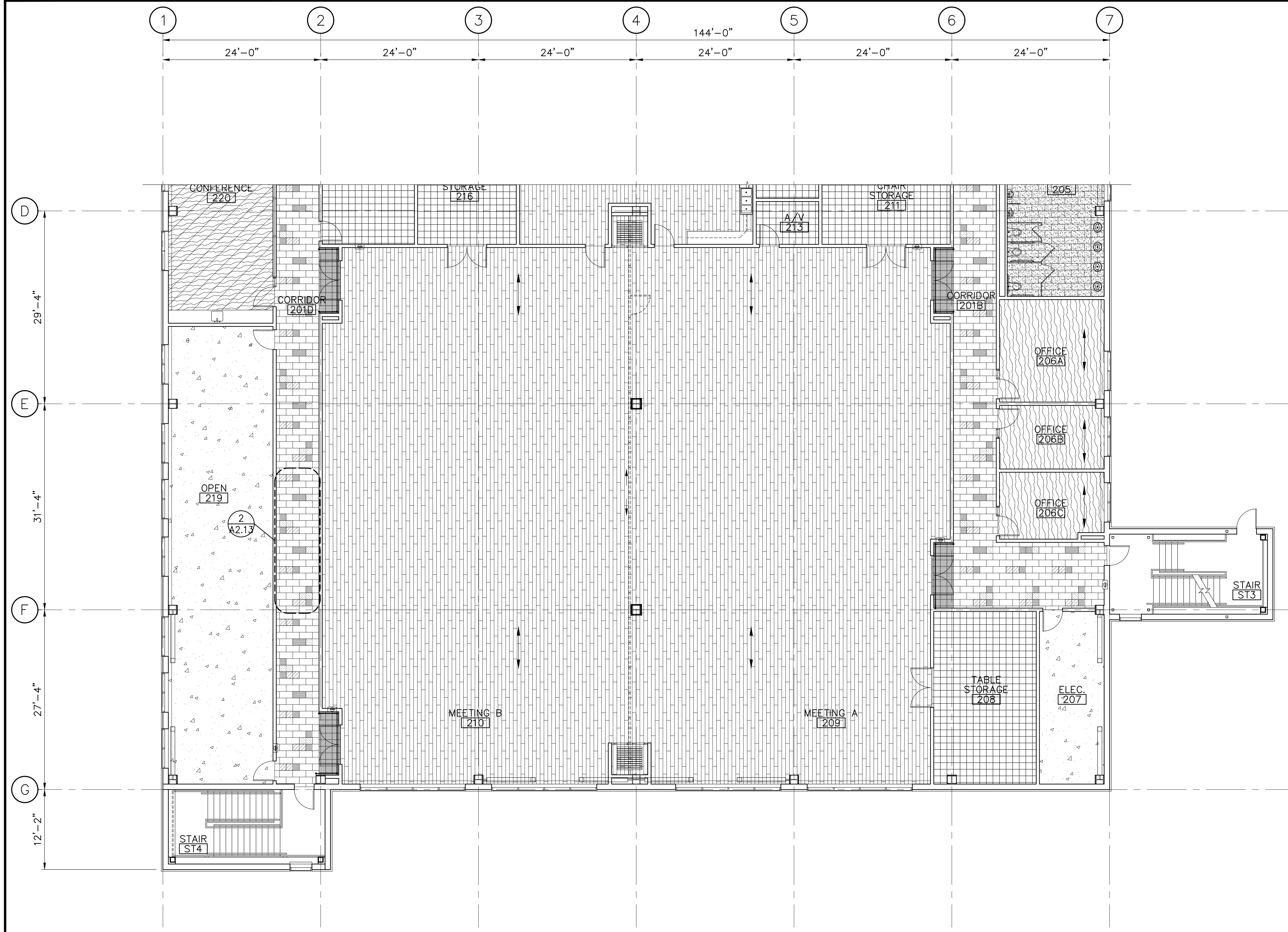
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
ENLARGED SECOND FLOOR REFLECTED CEILING PLAN SOUTH AREA

DWG
A2.12

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

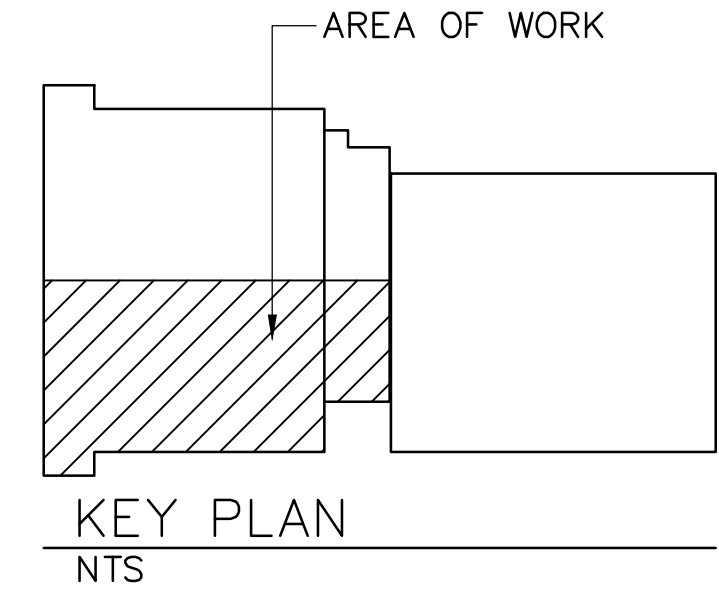
SHEET 110 of 288



FINISH PLAN LEGEND	
	BIO BASED TILE BBT-1 FIELD TILE
	BIO BASED TILE BBT-2 ACCENT TILE
	BIO BASED TILE BBT-3 ACCENT TILE
	BIO BASED TILE BBT-4 ACCENT TILE
	RESILIENT PLANK FLOORING LVT-1
	CARPET TILE CPT-4
	CARPET TILES CPT-2(34%), CPT-3(50%), CPT-4(16%)
	RESILIENT FLOORING RF-1 OR RF-2
	PORCELAIN TILE T-1
	CONCRETE/SEALER
← → LONG DIRECTION OF FLOORING	

1 ENLARGED SECOND FLOOR FINISH PLAN - SOUTH AREA
A2.14 1/8" = 1'-0"

REFER TO A8.1 & A8.2 FOR FINISH SCHEDULE



VERIFY SCALE			
REV	DATE	DESCRIPTION	BY
REVISIONS			

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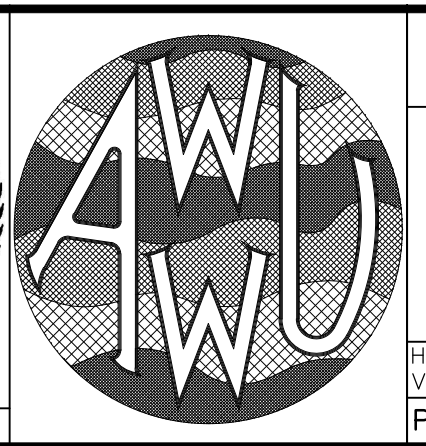
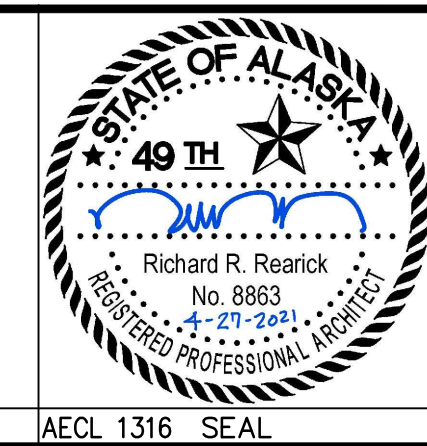
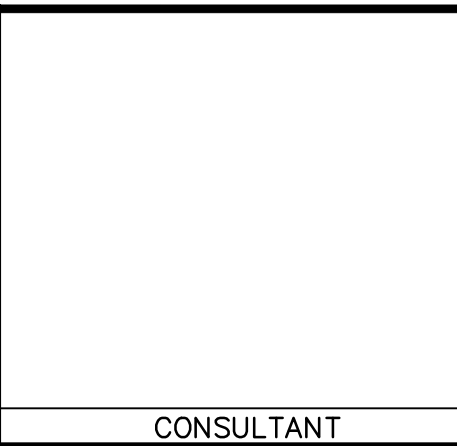
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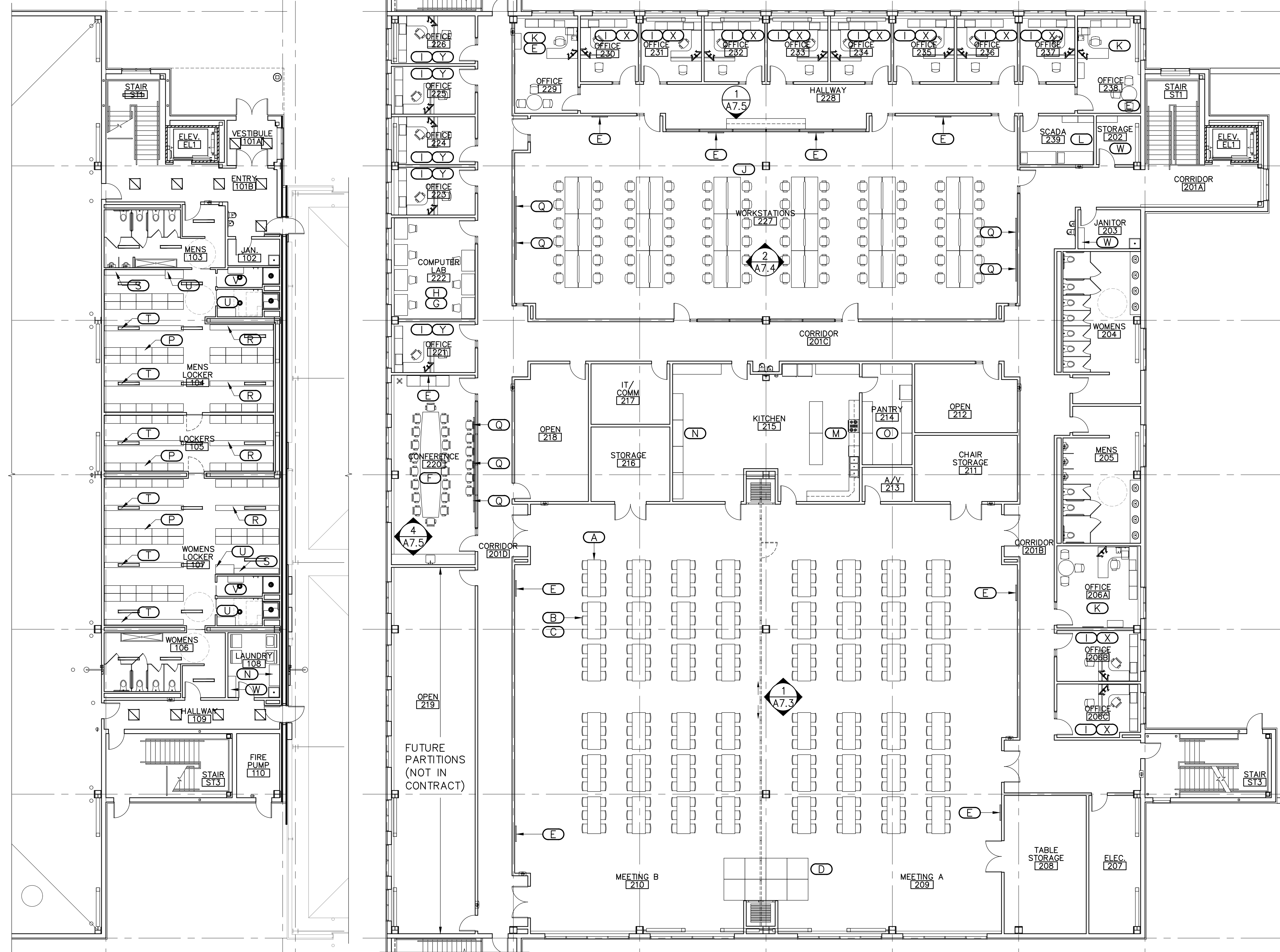
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

**ENLARGED SECOND FLOOR
FINISH PLAN - SOUTH AREA**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG
A2.14
SHEET 112 of 288



GENERAL NOTES:

- REFER TO SPECIFICATION SECTION 12 01 10 – FURNITURE, FIXTURES, AND EQUIPMENT (FF&E) FOR COMPLETE SCHEDULE OF ALL ITEMS INCLUDING QUANTITY, DETAILED DESCRIPTIONS & MANUFACTURER'S.
- (X) INDICATED FF&E ITEM LETTER

FF&E SCHEDULE

A.	30" X 84" FLIP TOP TABLES
B.	STACKABLE MEETING ROOM CHAIRS
C.	CHAIR DOLLY
D.	8' X 16' PORTABLE STAGE
E.	75" DIAGONAL FLAT SCREEN LCD DISPLAY
F.	CONFERENCE ROOM TABLE, CHAIRS, CREDENZA, COAT RACK
G.	TASK CHAIRS
H.	DESK 30" X 48"
I.	SMALL OFFICE: ADJUSTABLE HEIGHT WORKSTATION, TASK & GUEST CHAIRS, LATERAL FILE CABINET, BOOKCASE, 48"X48" WHITEBOARD &, TRIPLE MONITOR ARMS
J.	60" X 84" WORKSTATIONS, TASK CHAIRS
K.	OFFICES 206A, 229 & 238: ADJUSTABLE HEIGHT WORKSTATION, LATERAL FILE CABINET, BOOKCASE, TASK & GUEST CHAIRS, TABLE, FLAT SCREEN MONITOR, 48"X48" WHITEBOARD, TRIPLE MONITOR ARMS, MONITORS, COMPUTER, KEYBOARD & MOUSE
L.	30" X 82" DESKS, TASK CHAIRS, BOOKCASES
M.	30" X 72" STAINLESS STEEL WORKTABLES WITH BOTTOM SHELF
N.	24" X 60" MOBILE STAINLESS STEEL WORKTABLES WITH BOTTOM SHELF
O.	PANTRY 214: POLYMER WIRE SHELVING 24" X 60", 5 SHELVES HIGH, SEE SPECIFICATION SECTION 10 56 13
P.	LOCKERS: 36" X 18" X 72"
Q.	WHITEBOARDS: 36" X 72" CONFERENCE RM & WORKSTATIONS
R.	LOCKER ROOM BENCH: 12" X 144"
S.	LOCKER ROOM BENCH: 12" X 138"
T.	LOCKER ROOM BENCH: 12" X 180"
U.	ACCESSIBLE LOCKER ROOM BENCH: 20" X 42"
V.	LOCKER ROOM BENCH: 12" X 36"
W.	METAL STORAGE SHELVING: 48" X 18" X 87", SEE SPEC. 10 56 13
X.	OFFICES 206B, 206C, 230-237: (3) 22" MONITORS, COMPUTER, KEYBOARD & MOUSE
Y.	OFFICES 221-226: (2) 22" MONITORS, COMPUTER, KEYBOARD & MOUSE

1 FIRST FLOOR FF&E PLAN
A2.15 3/32" = 1'-0"

2 SECOND FLOOR FF&E PLAN
A2.15 3/32" = 1'-0"

VERIFY SCALE
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

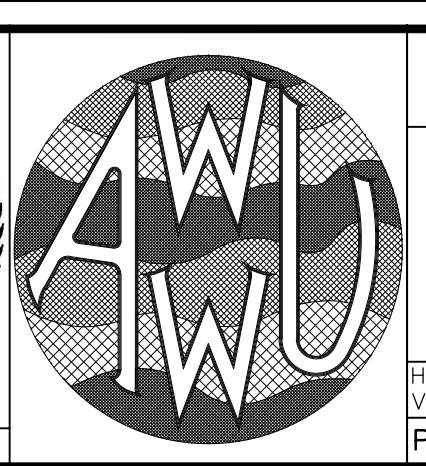
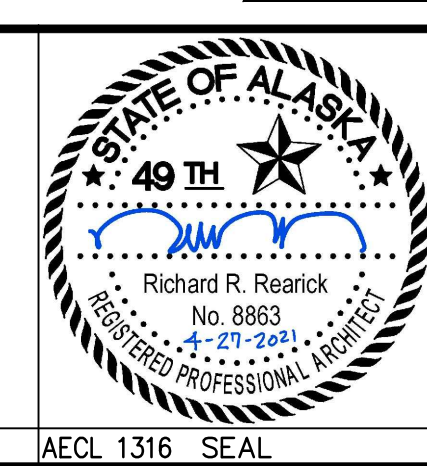
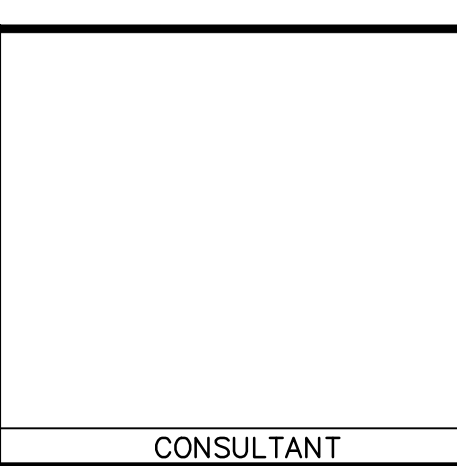
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RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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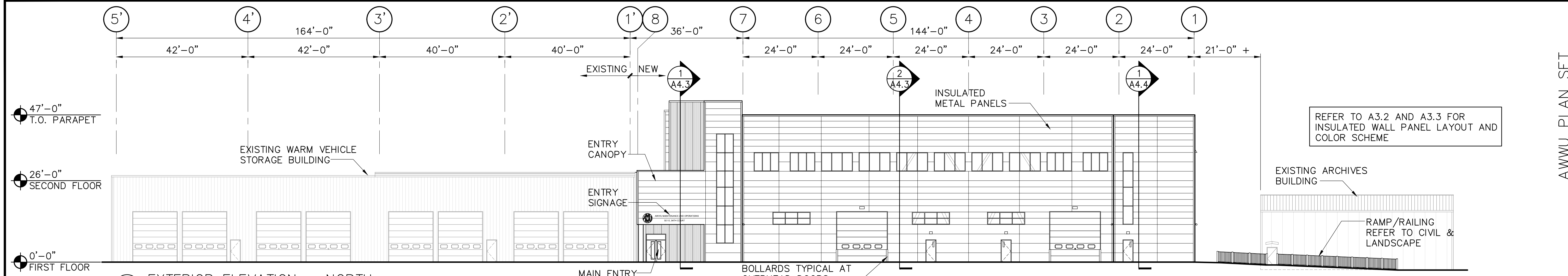
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WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

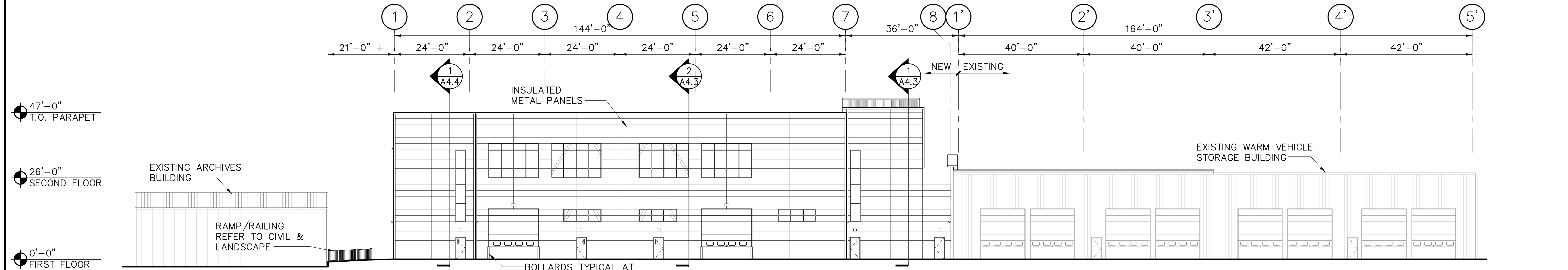
**FIRST & SECOND FLOOR
FF&E PLAN / SCHEDULE**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

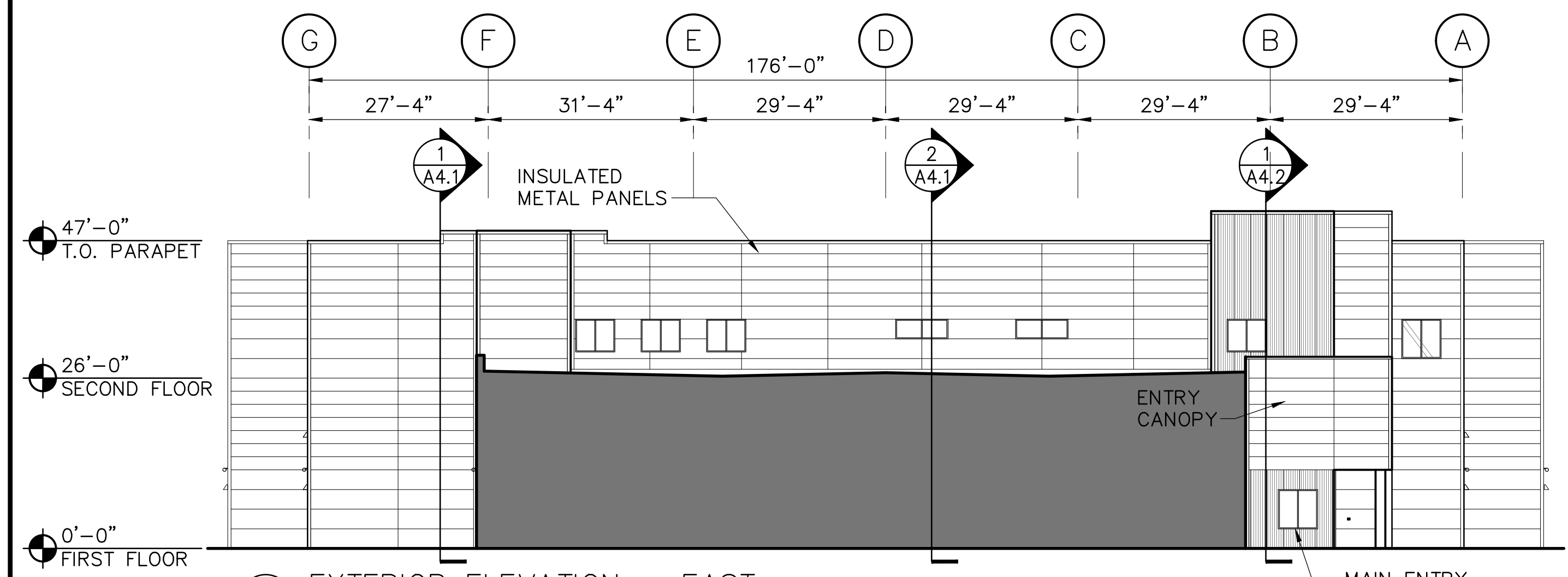
DWG A2.15 SHEET 113 of 288



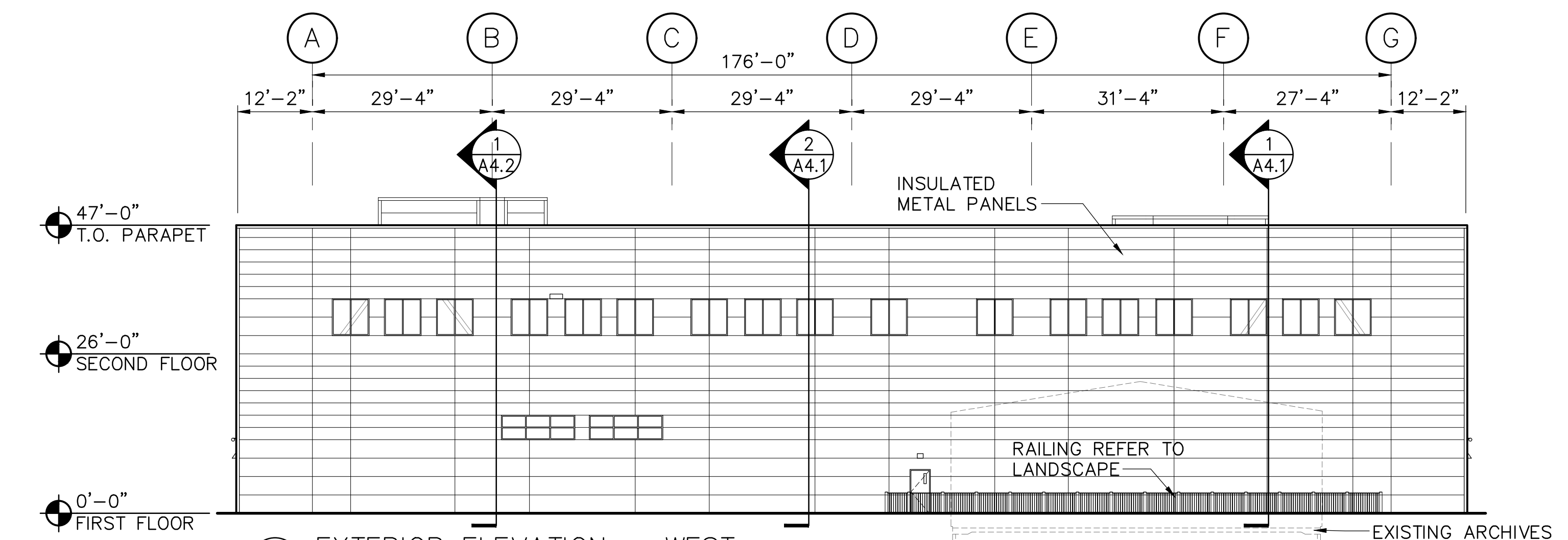
1
A3.1
1/16" = 1'-0"



2
A3.1
1/16" = 1'-0"



3
A3.1
1/16" = 1'-0"



4
A3.1
1/16" = 1'-0"

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

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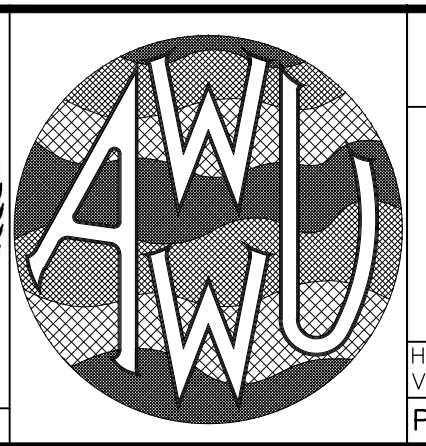
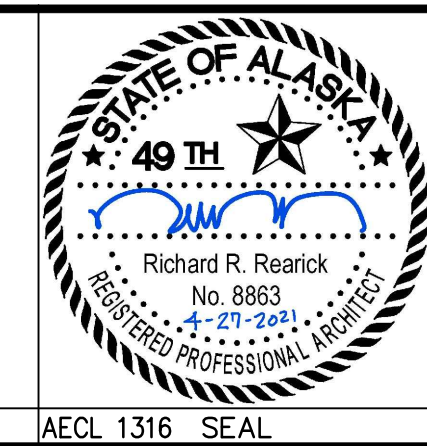
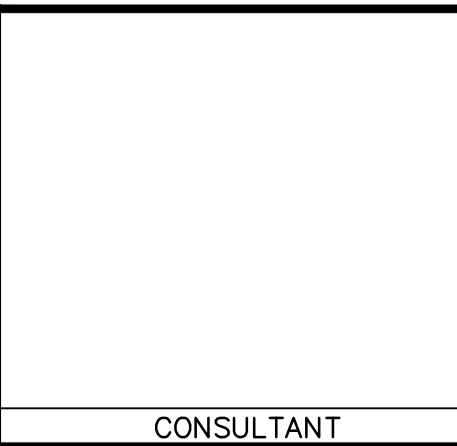
2. DATA TRANSFERRED BY: COMPANY: _____ DATE: _____

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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

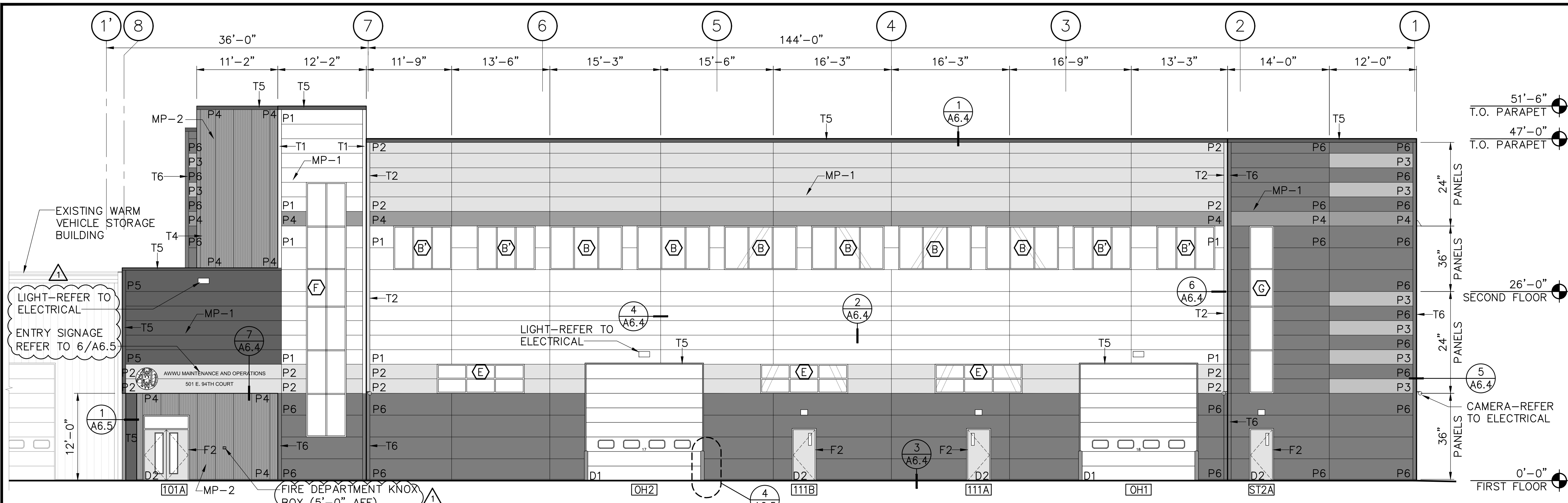
EXTERIOR ELEVATIONS

DATE: APRIL 2021 GRID: SW 2431

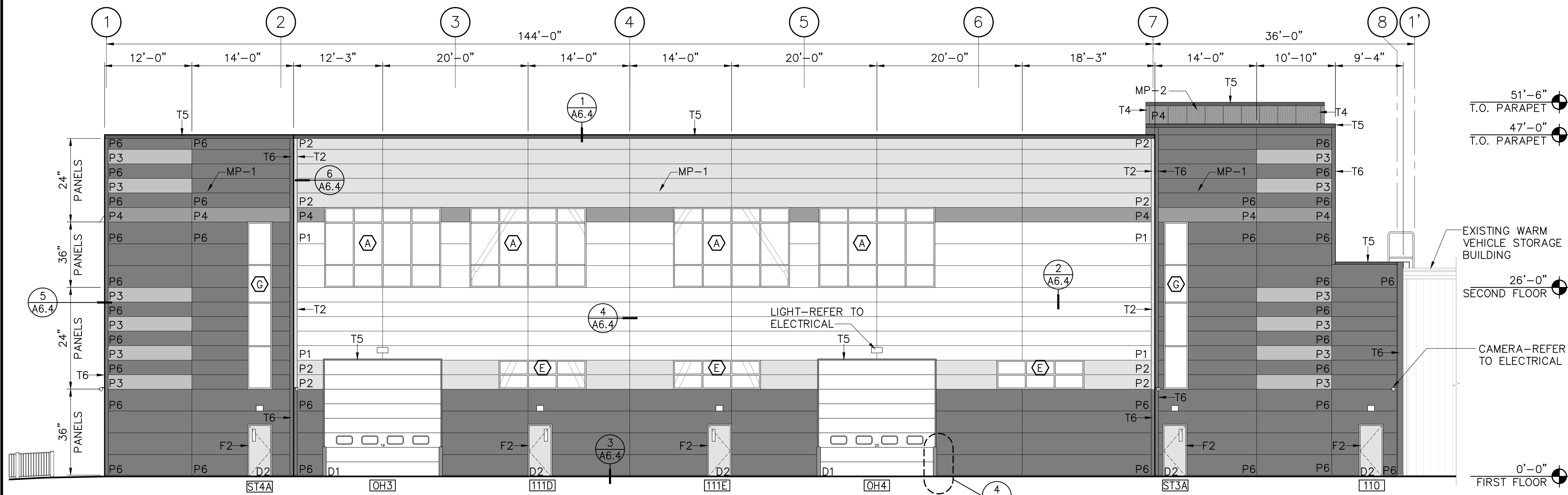
PROJ. ID.: WW.H7775

DWG
A3.1

SHEET 114 of 288



1 ENLARGED EXTERIOR ELEVATION PANEL LAYOUT - NORTH
1/8" = 1'-0"



2 ENLARGED EXTERIOR ELEVATION PANEL LAYOUT - SOUTH
1/8" = 1'-0"

PANEL TYPES:

MP-1:
3" HORIZONTAL INSULATED METAL WALL PANEL, 24" & 36" WIDE X LENGTH AS SHOWN OVER VERTICAL STUDS

MP-2:
3" VERTICAL INSULATED METAL WALL PANEL, 36" WIDE X LENGTH AS SHOWN OVER HORIZONTAL HAT CHANNEL OVER VERTICAL STUDS

COLOR SCHEDULE:

1	COLOR 1
2	COLOR 2
3	COLOR 3
4	COLOR 4
5	COLOR 5
6	COLOR 6

P_ = PANEL COLOR
T_ = TRIM COLOR
D_ = DOOR COLOR
F_ = FRAME COLOR

VERIFY SCALE
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY
1	6/8/21	MOA PLAN REVIEW	TJ

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

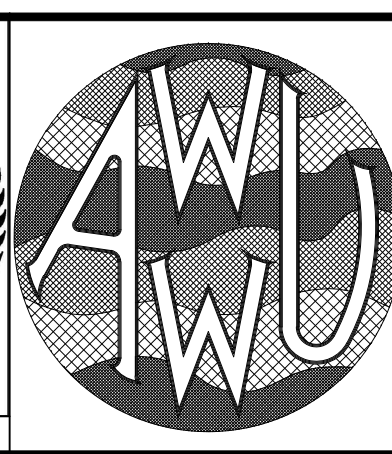
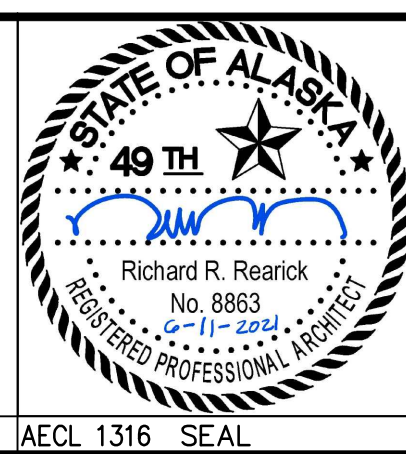
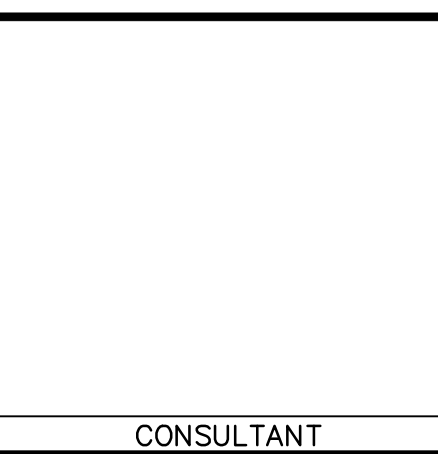
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BY: _____

2. DATA TRANSFERRED BY:
COMPANY: _____
DATE: _____

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DATA TRANSFER CHECKED BY: _____
DATE: _____ TITLE: _____
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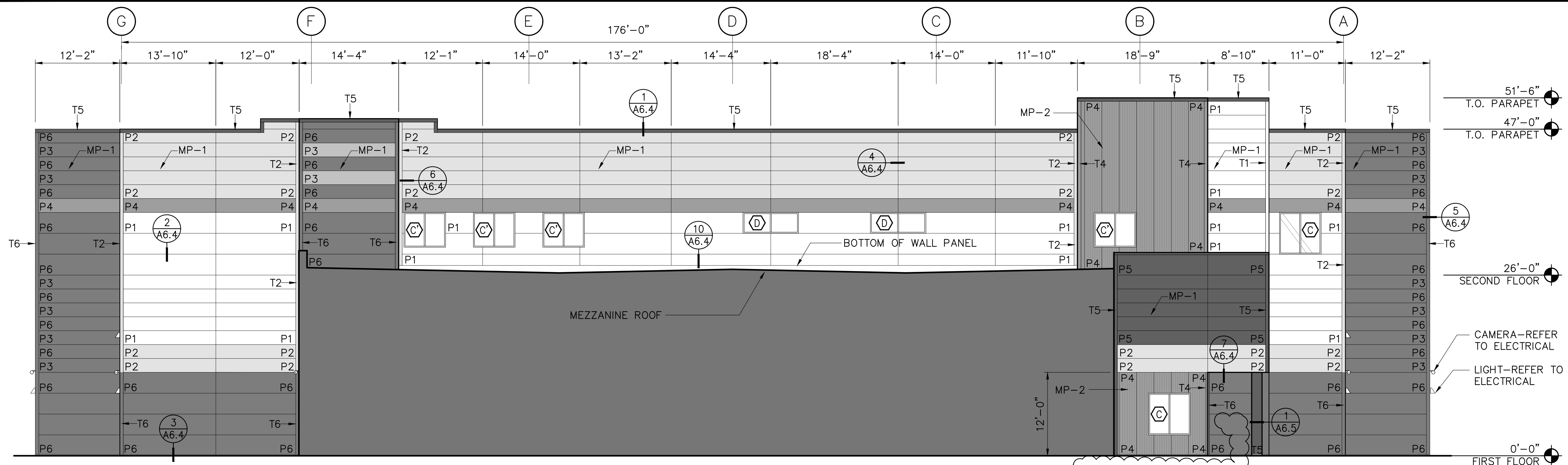
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

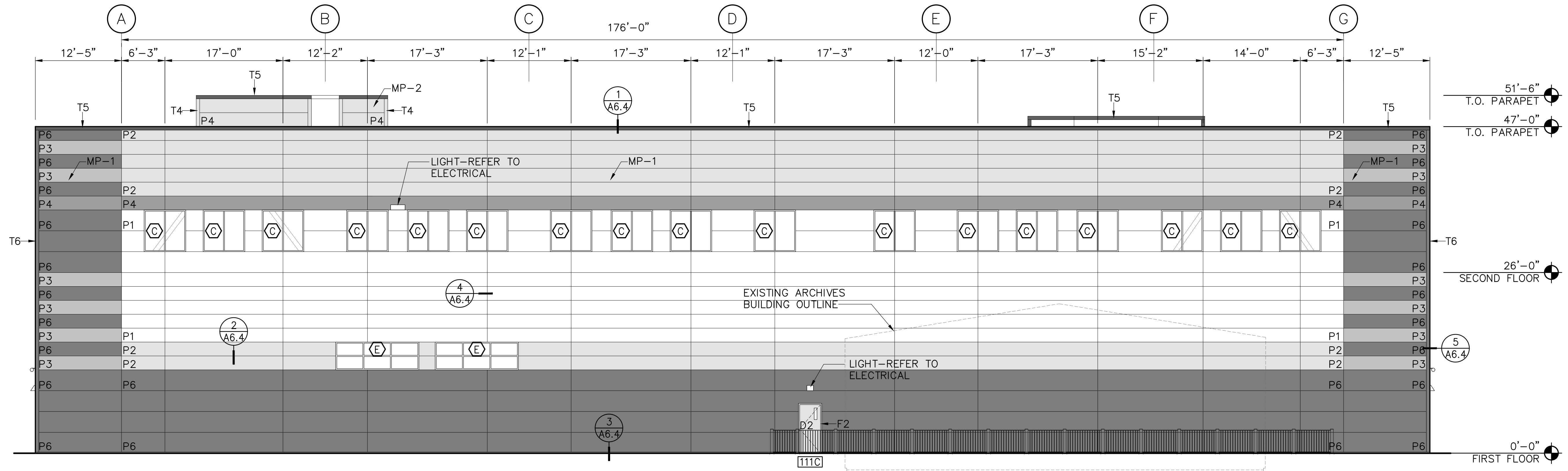
**ENLARGED EXTERIOR ELEVATION
PANEL LAYOUT - NORTH & SOUTH**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG A3.2 SHEET 115 of 288



1 ENLARGED EXTERIOR ELEVATION PANEL LAYOUT - WEST
A3.3 1/8" = 1'-0"



2 ENLARGED EXTERIOR ELEVATION PANEL LAYOUT - EAST
A3.3 1/8" = 1'-0"

PANEL TYPES:

MP-1:
3" HORIZONTAL INSULATED METAL WALL PANEL, 24" & 36" WIDE X LENGTH AS SHOWN OVER VERTICAL STUDS

MP-2:
3" VERTICAL INSULATED METAL WALL PANEL, 36" WIDE X LENGTH AS SHOWN OVER HORIZONTAL HAT CHANNEL OVER VERTICAL STUDS

COLOR SCHEDULE:

1	COLOR 1
2	COLOR 2
3	COLOR 3
4	COLOR 4
5	COLOR 5
6	COLOR 6

P_ = PANEL COLOR
T_ = TRIM COLOR
D_ = DOOR COLOR
F_ = FRAME COLOR

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY
1	6/8/21	MOA PLAN REVIEW	TJ

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

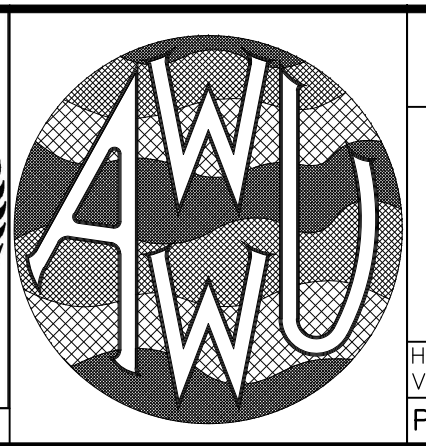
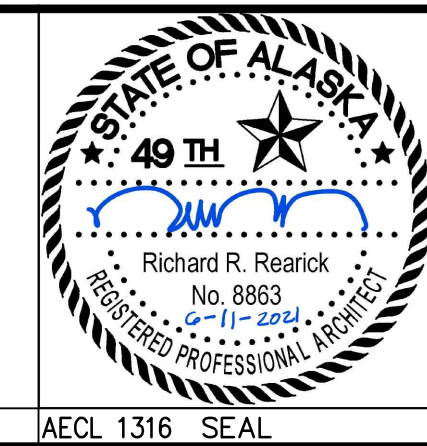
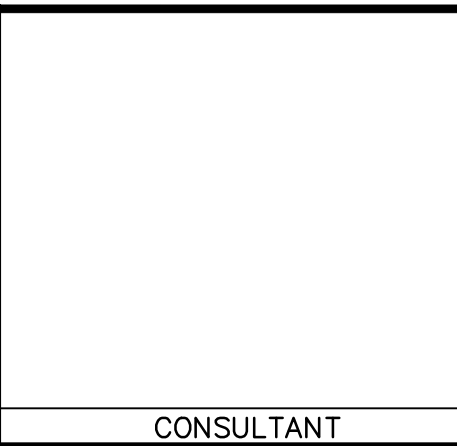
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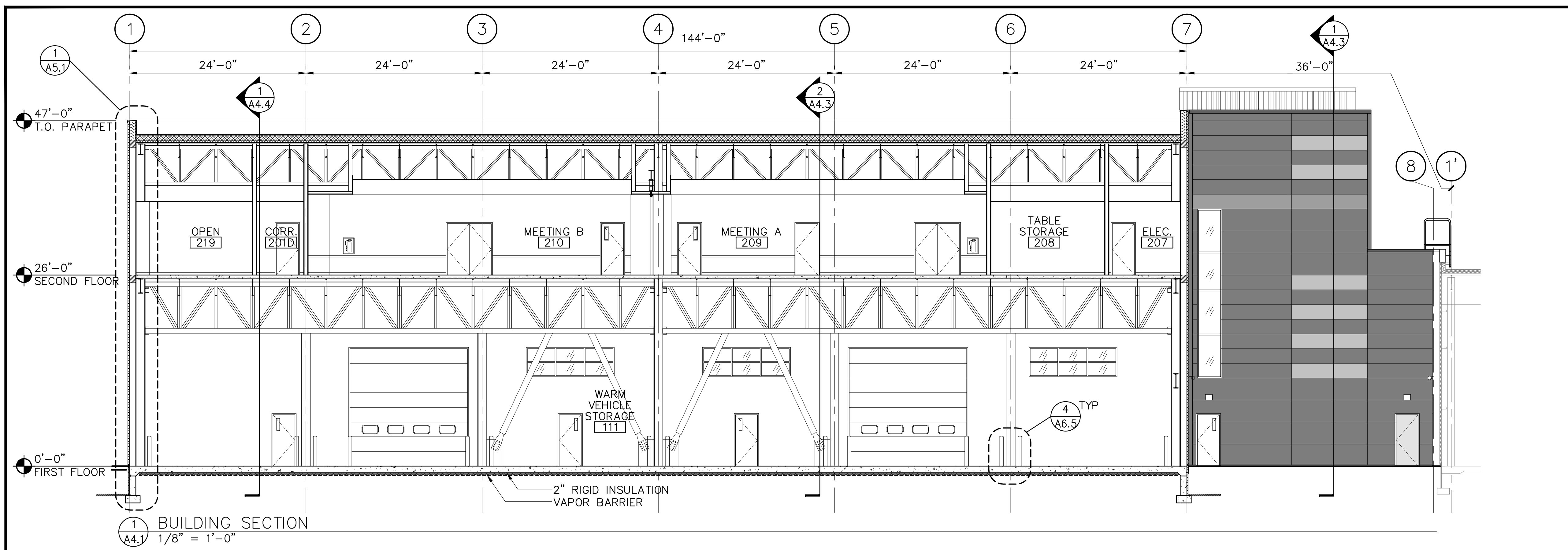
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WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

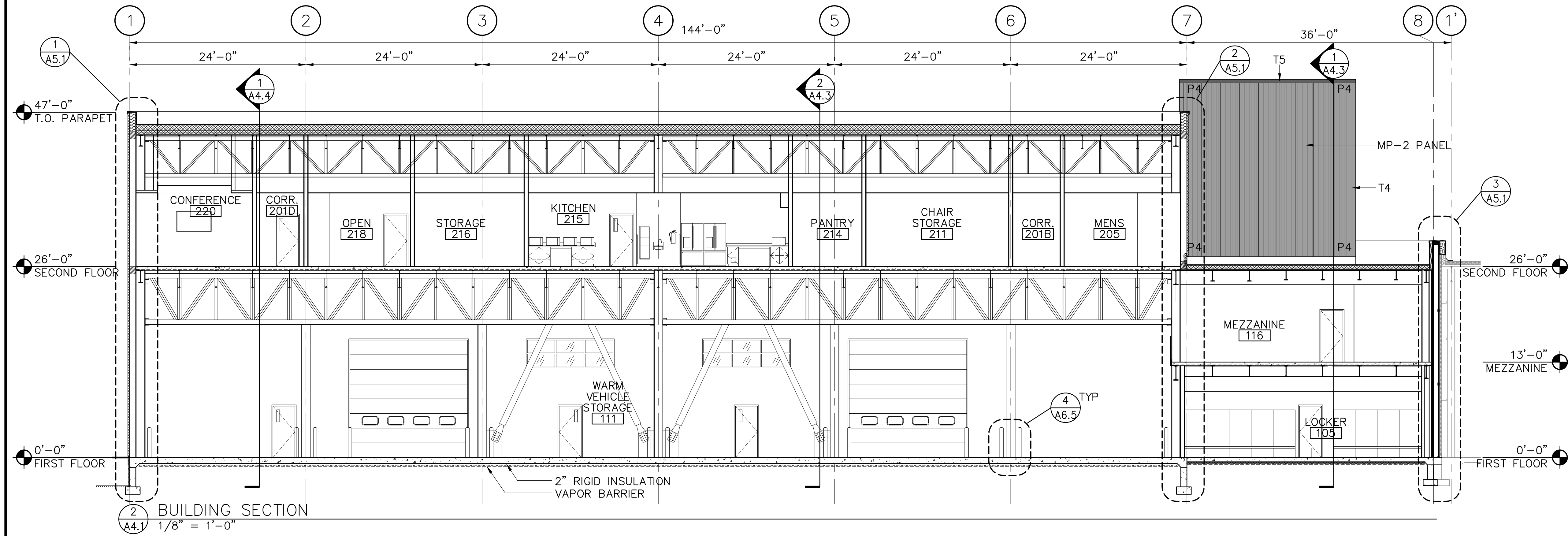
**ENLARGED EXTERIOR ELEVATION
PANEL LAYOUT - WEST & EAST**

HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG A3.3 SHEET 116 of 288



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



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

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

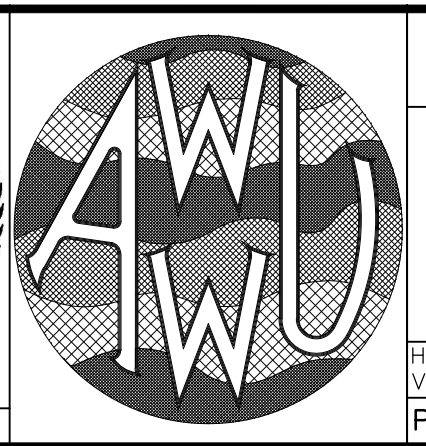
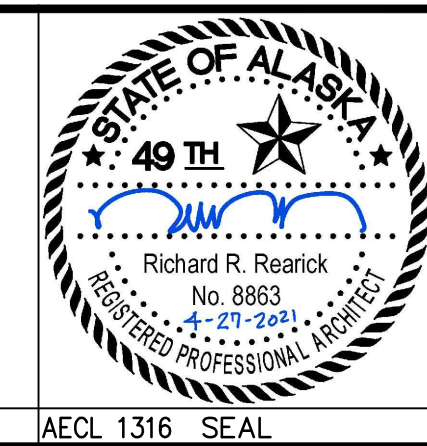
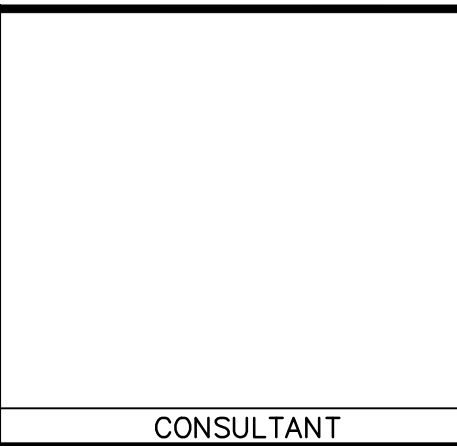
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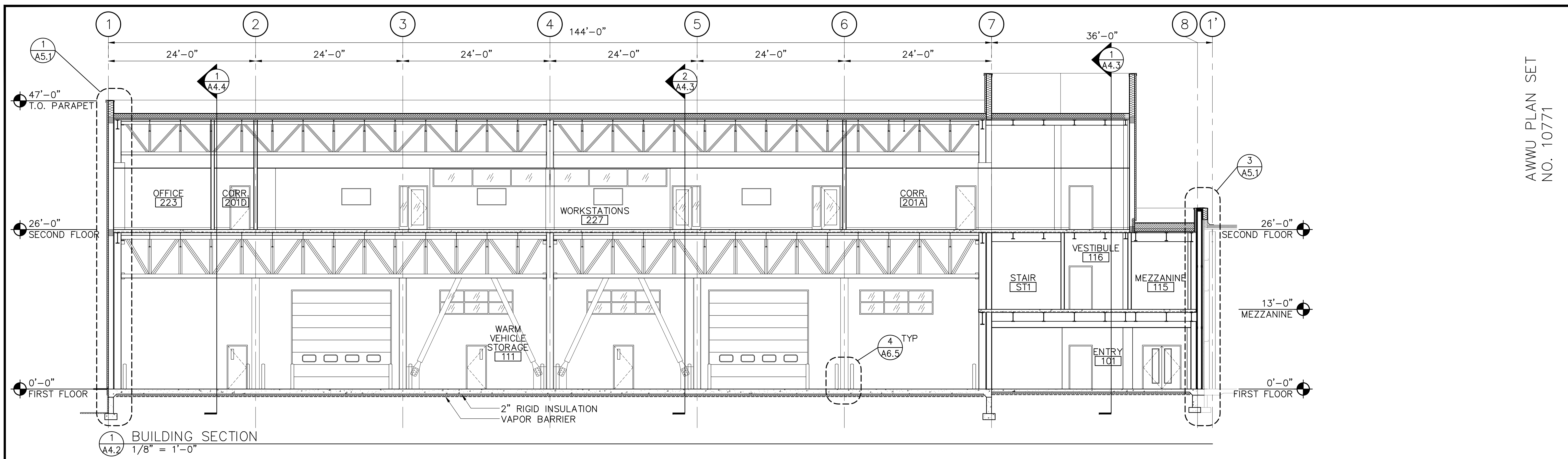
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

BUILDING SECTIONS

DWG
A4.1

HORIZ. SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT. SCALE: N/A
 PROJ. ID.: WW.H7775

SHEET 117 of 288



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

REV	DATE	DESCRIPTION	BY

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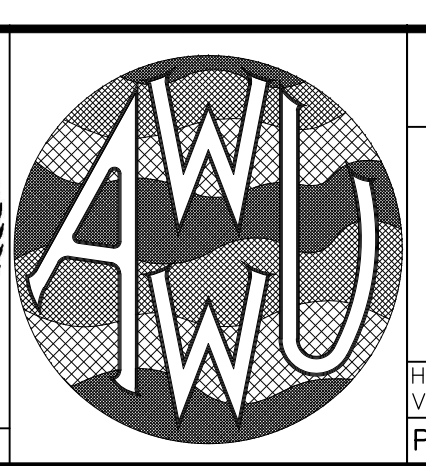
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 6700 Arctic Spur Road
 Anchorage, AK 99518 19071 677-8220
 PRIME CONSULTANT

CONSULTANT

STATE OF ALASKA
 49th
 Richard R. Rearick
 No. 8863
 4-21-2021
 REGISTERED PROFESSIONAL ARCHITECT
 AECL 1316 SEAL



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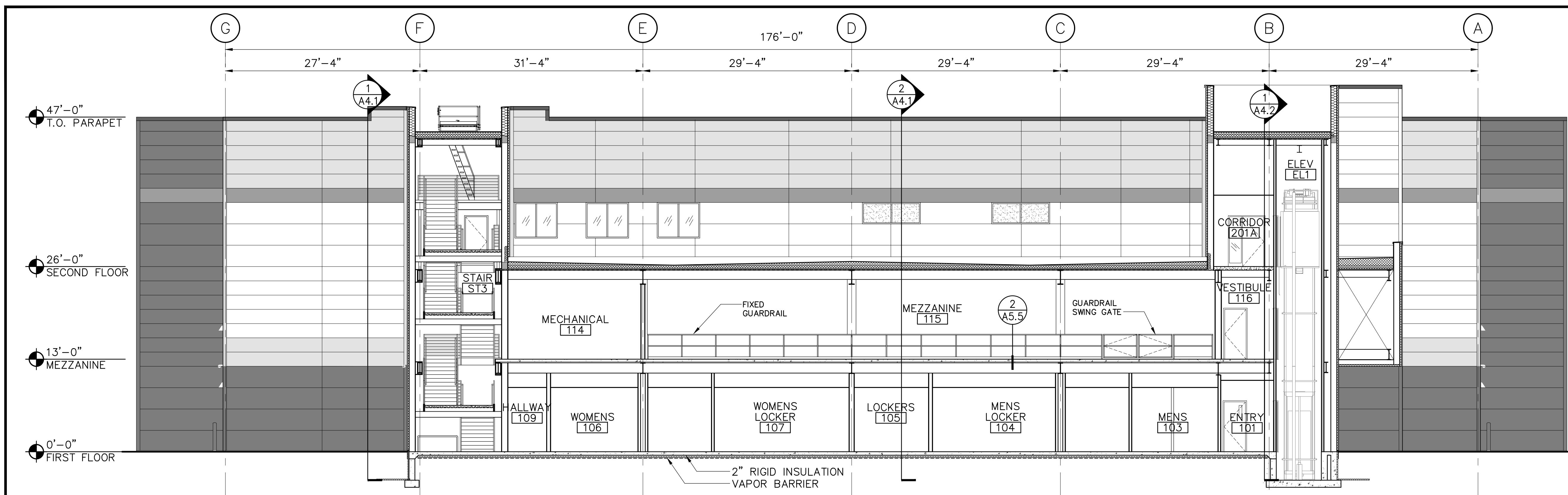
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BUILDING SECTION

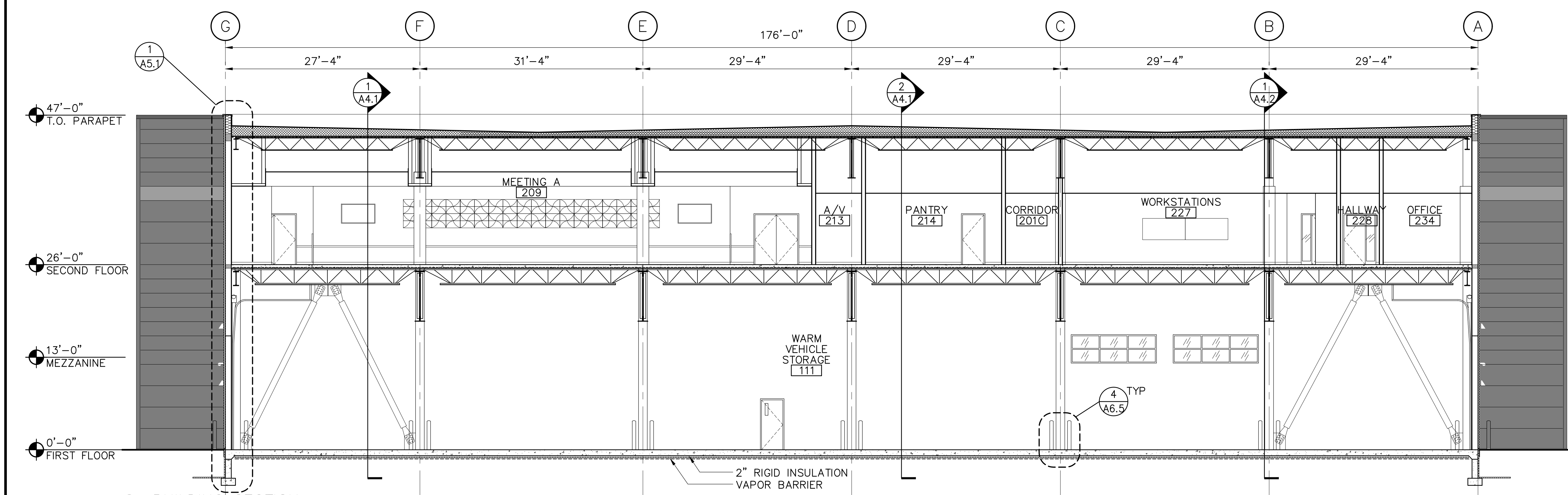
DWG **A4.2**

HORIZ. SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT. SCALE: N/A
 PROJ. ID.: WW.H7775

SHEET 118 of 288



1 BUILDING SECTION
A4.3 1/8" = 1'-0"



2 BUILDING SECTION
A4.3 1/8" = 1'-0"

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

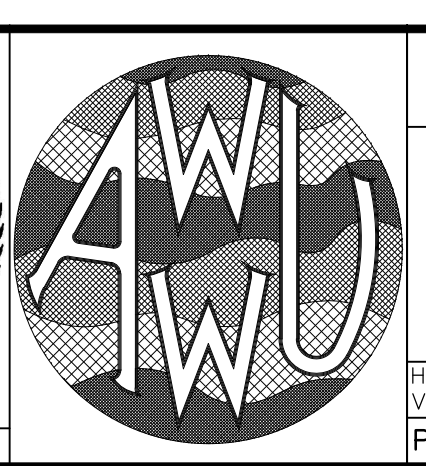
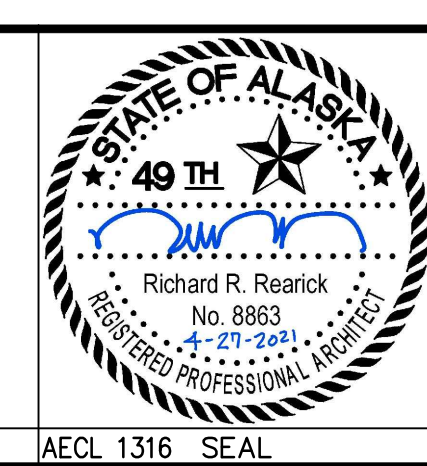
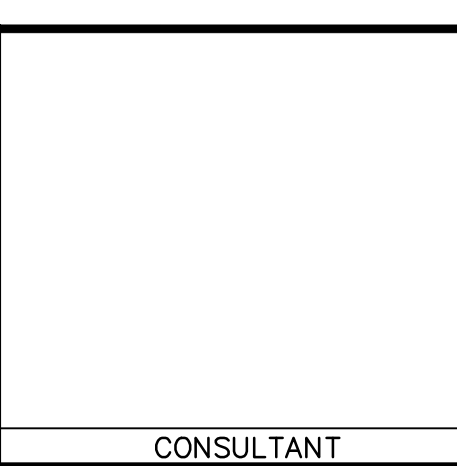
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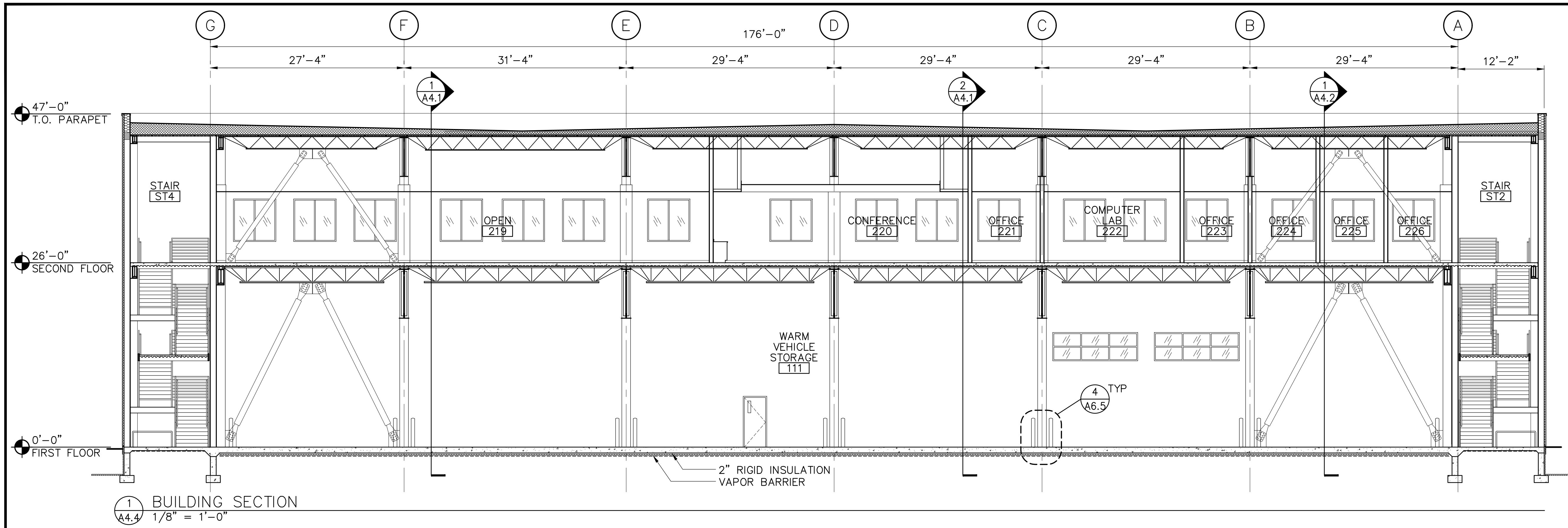
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

BUILDING SECTIONS

DWG A4.3

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775

SHEET 119 of 288



1 BUILDING SECTION
A4.4 1/8" = 1'-0"

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

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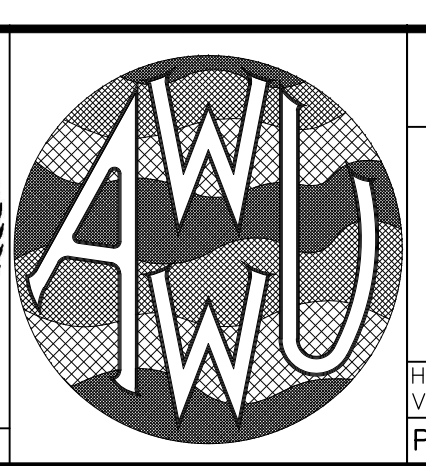
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UMIAQ Design LLC
 6700 Arctic Spur Road
 Anchorage, AK 99518 19071 677-8220
 PRIME CONSULTANT

CONSULTANT

Richard R. Rearick
 No. 8863
 4-21-2001
 REGISTERED PROFESSIONAL ENGINEER
 AECL 1316 SEAL



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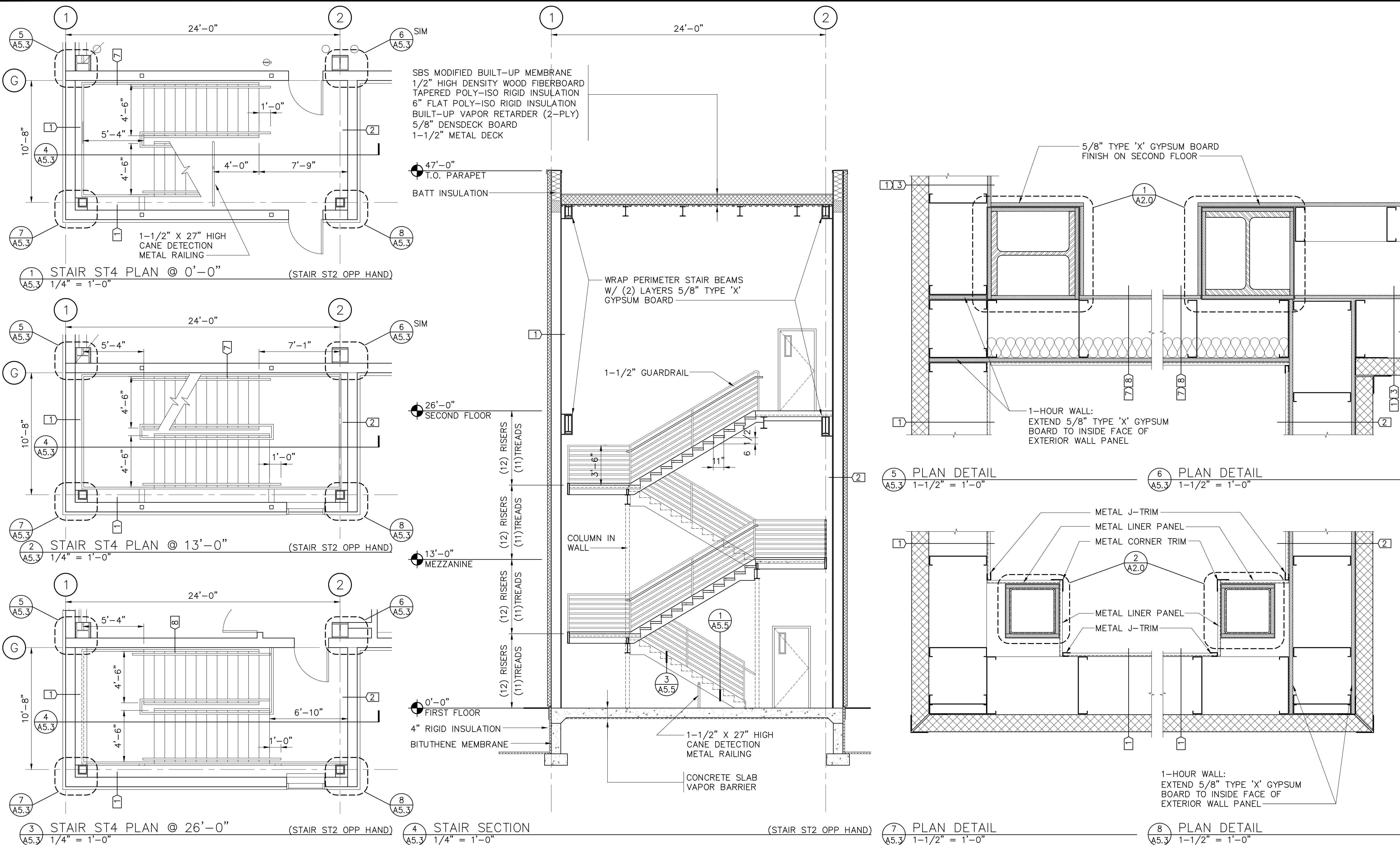
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

BUILDING SECTION

DWG **A4.4**

HORIZ. SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT. SCALE: N/A
 PROJ. ID.: WW.H7775

SHEET 120 of 288



VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

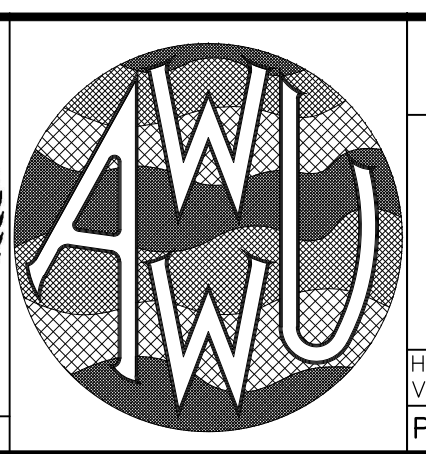
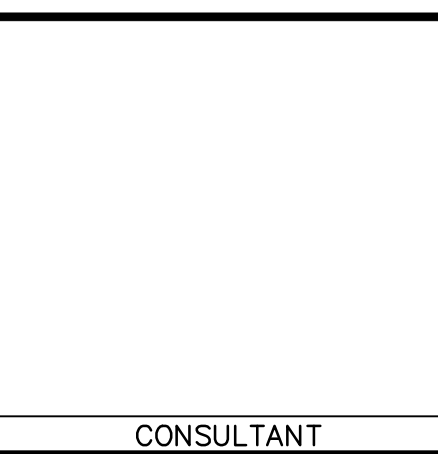
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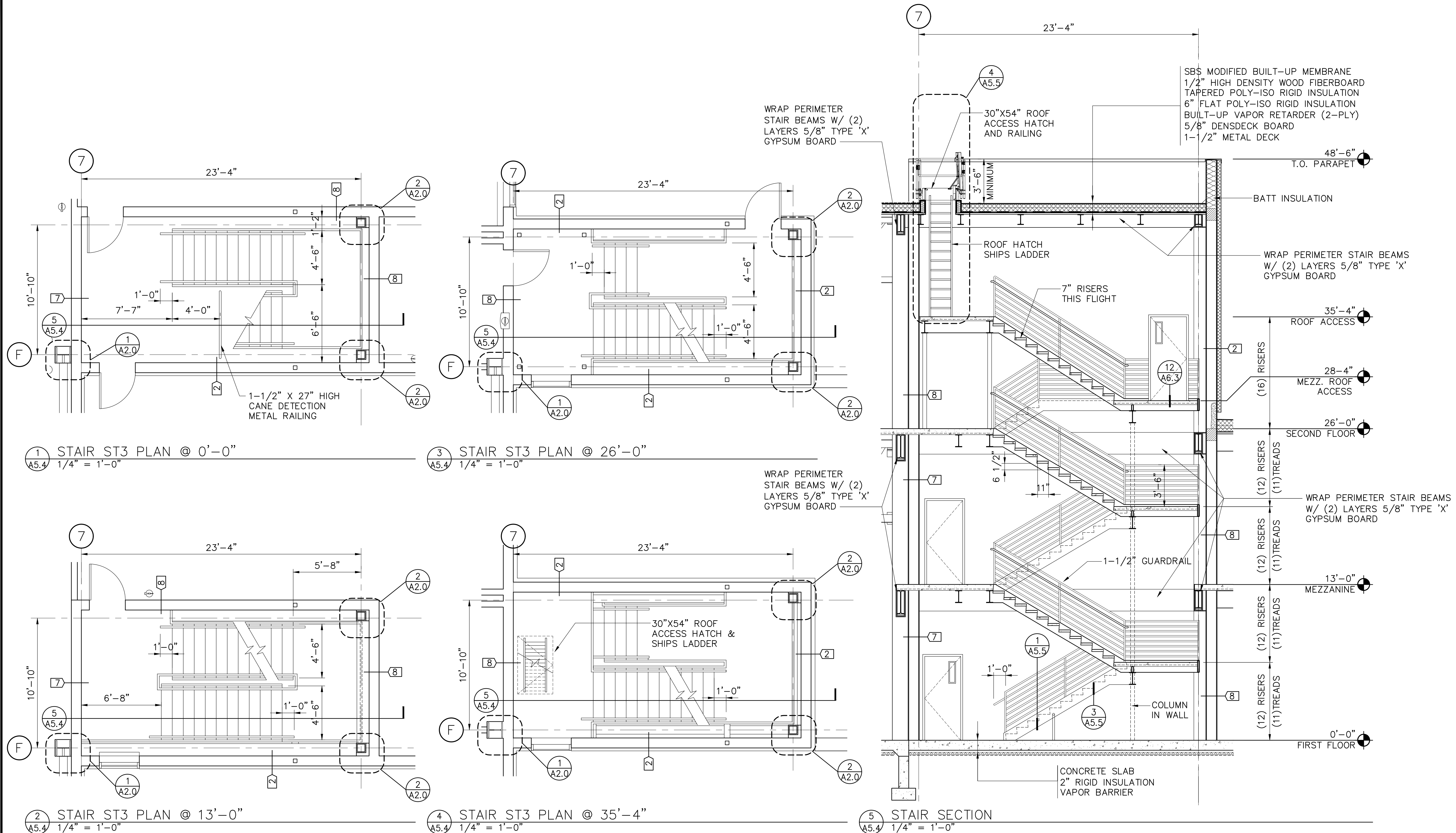
MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

STAIR ST2/ST4 ENLARGED PLANS, SECTION, DETAILS

HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG
A5.3
 SHEET 123 of 288



1 STAIR ST3 PLAN @ 0'-0"
A5.4 1/4" = 1'-0"

3 STAIR ST3 PLAN @ 26'-0"
A5.4 1/4" = 1'-0"

2 STAIR ST3 PLAN @ 13'-0"
A5.4 1/4" = 1'-0"

4 STAIR ST3 PLAN @ 35'-4"
A5.4 1/4" = 1'-0"

5 STAIR SECTION
A5.4 1/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

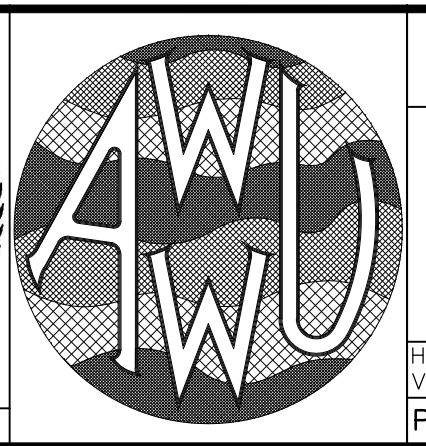
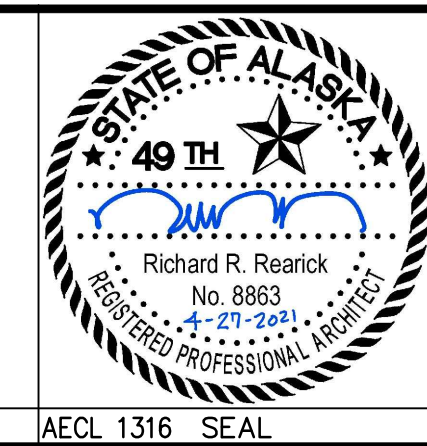
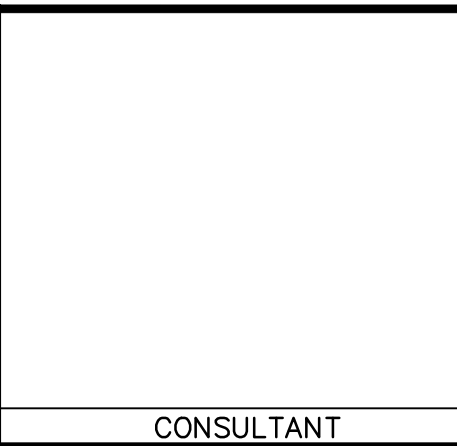
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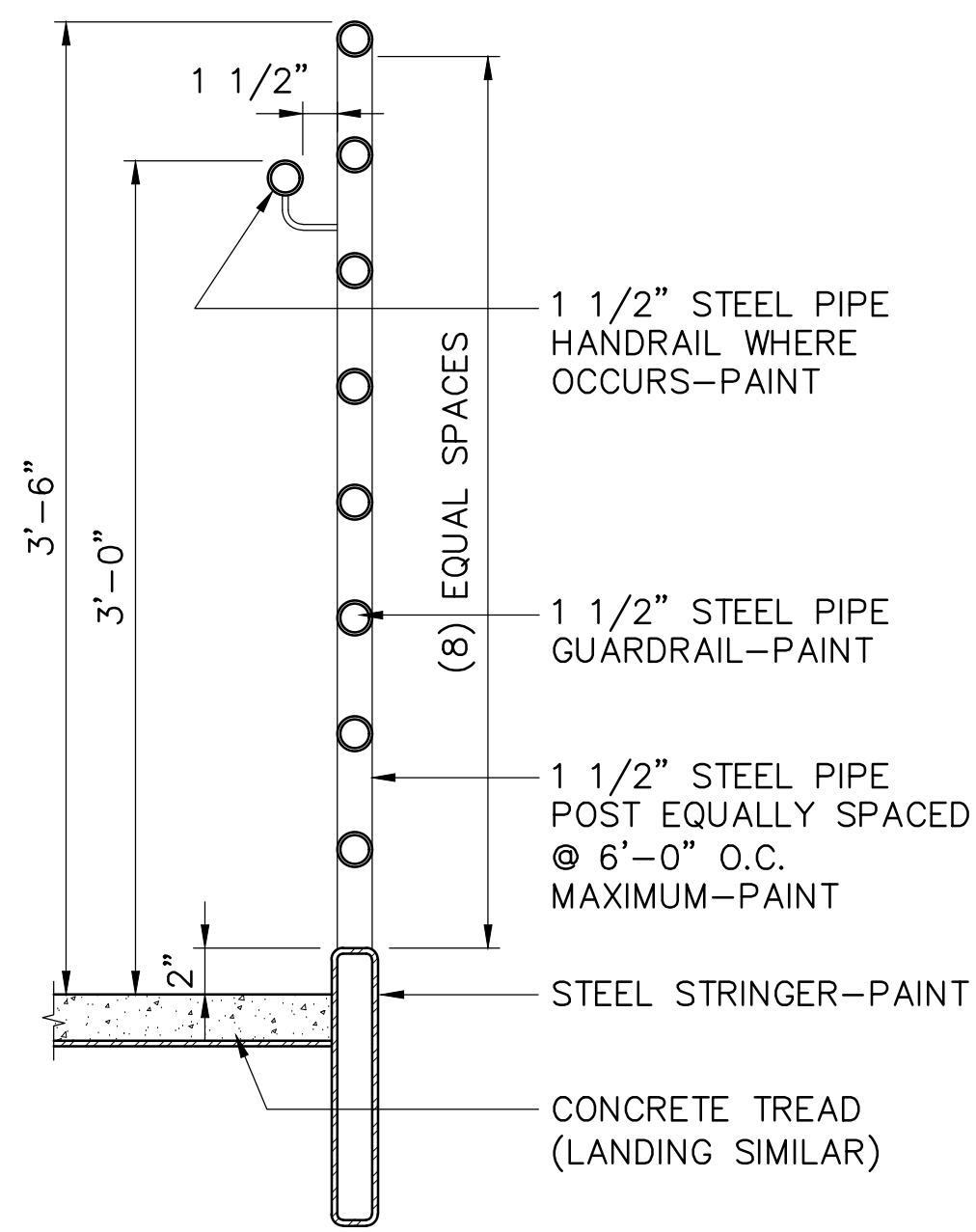
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

**STAIR ST3 ENLARGED PLANS,
SECTION**

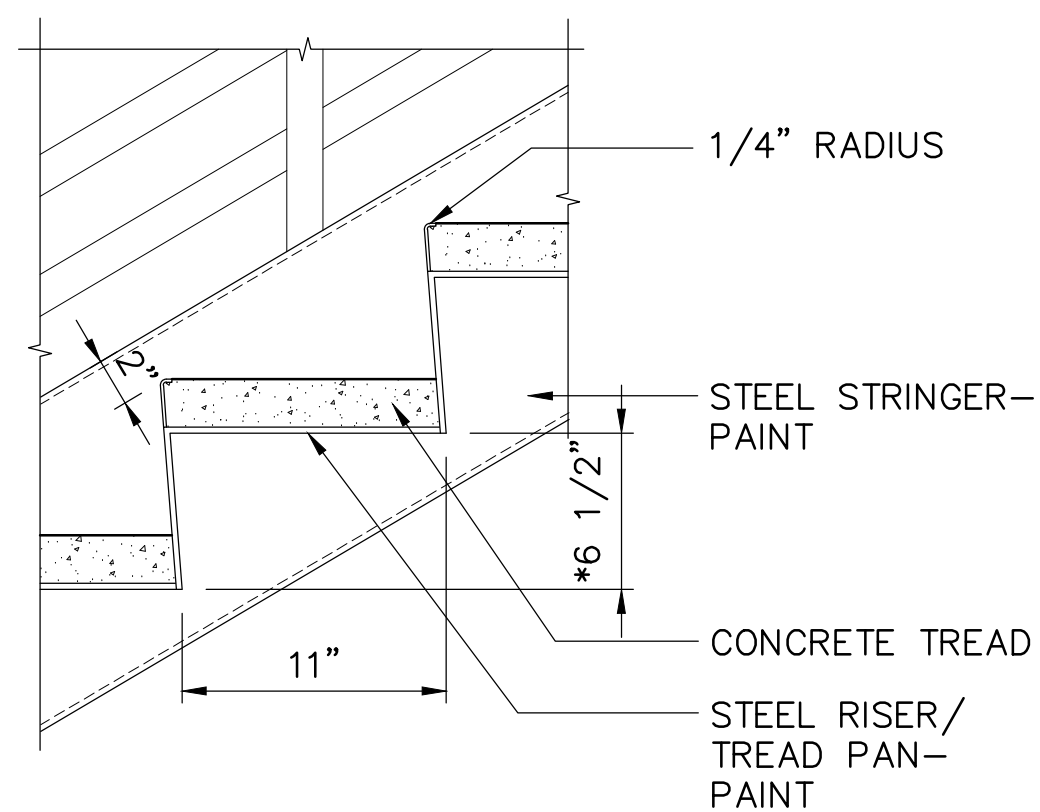
HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG
A5.4

SHEET 124 of 288

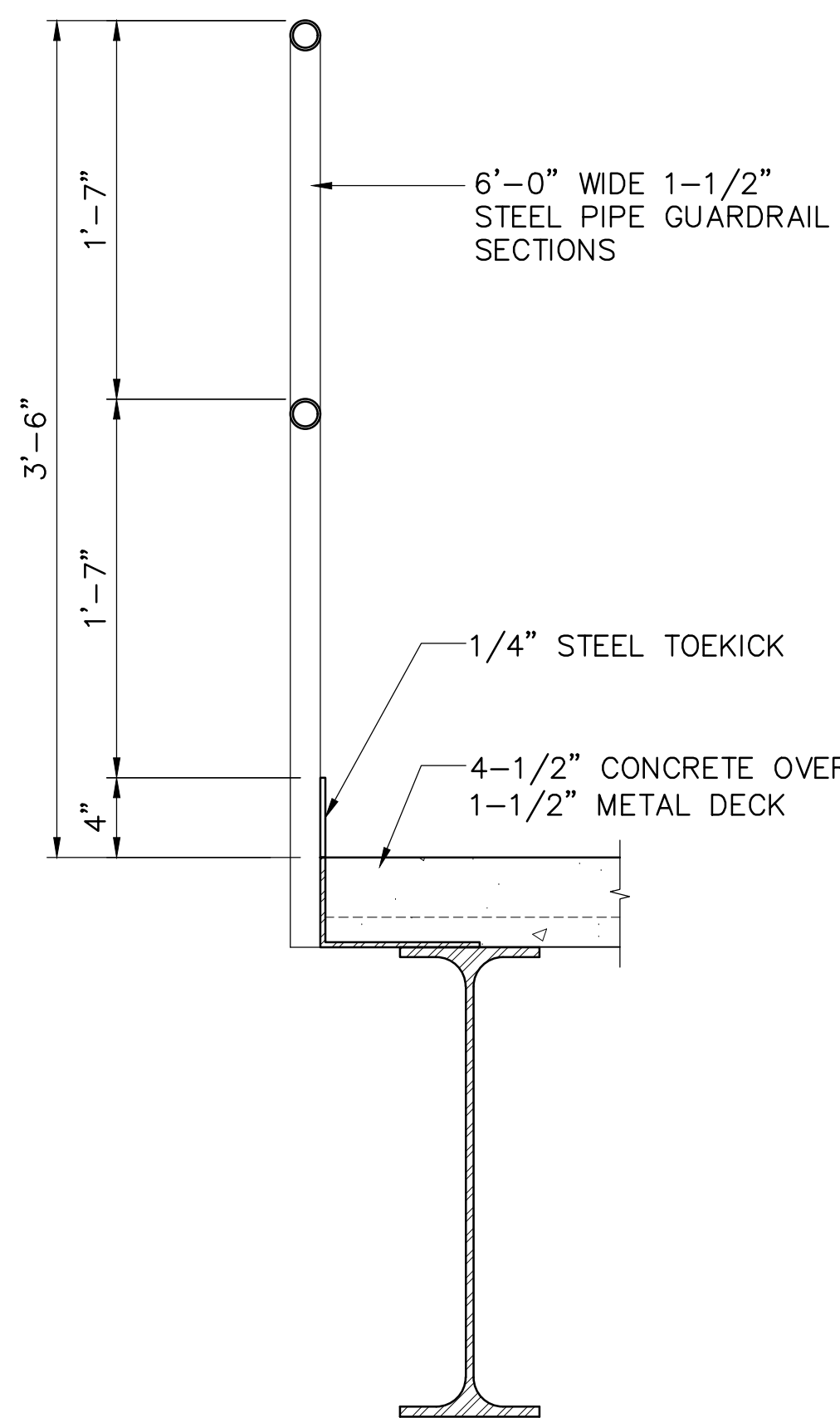


* NOTE: STAIR RISER HEIGHT AT STAIR 3 FROM 26'-0" TO 35'-4" A.F.F. CHANGES TO 7" RISER HEIGHT.

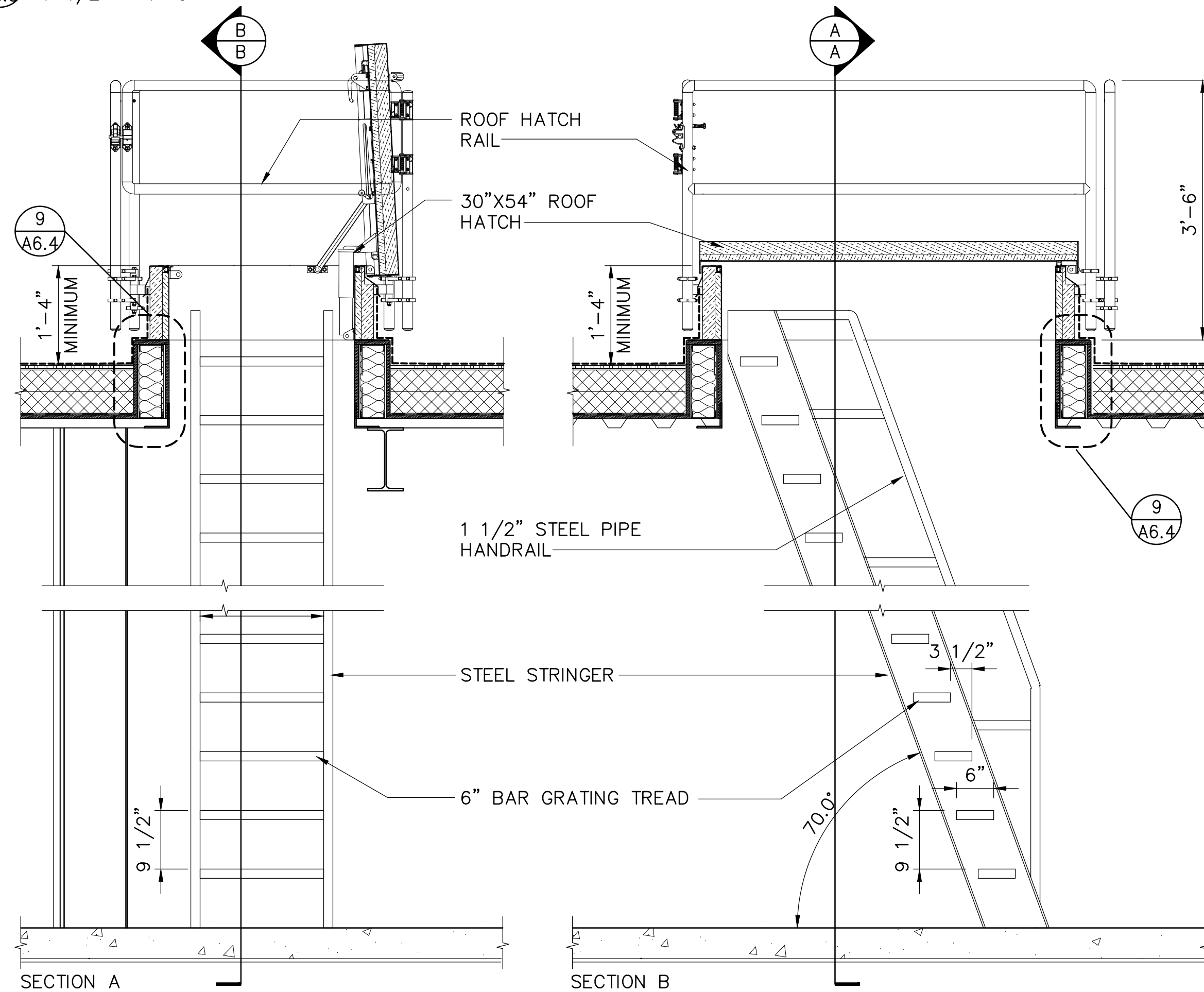


1 GUARDRAIL SECTION
A5.5 1-1/2" = 1'-0"

3 TYPICAL STAIR TREAD
A5.5 1-1/2" = 1'-0"



2 MEZZANINE GUARDRAIL SECTION
A5.5 1-1/2" = 1'-0"



4 ROOF ACCESS HATCH/SHIP LADDER
A5.5 3/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

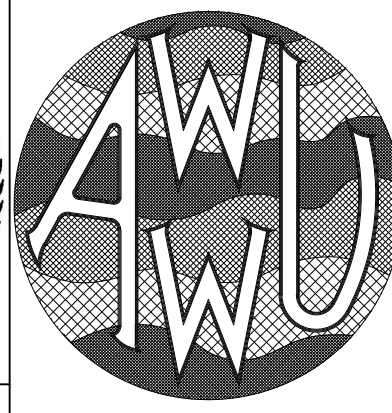
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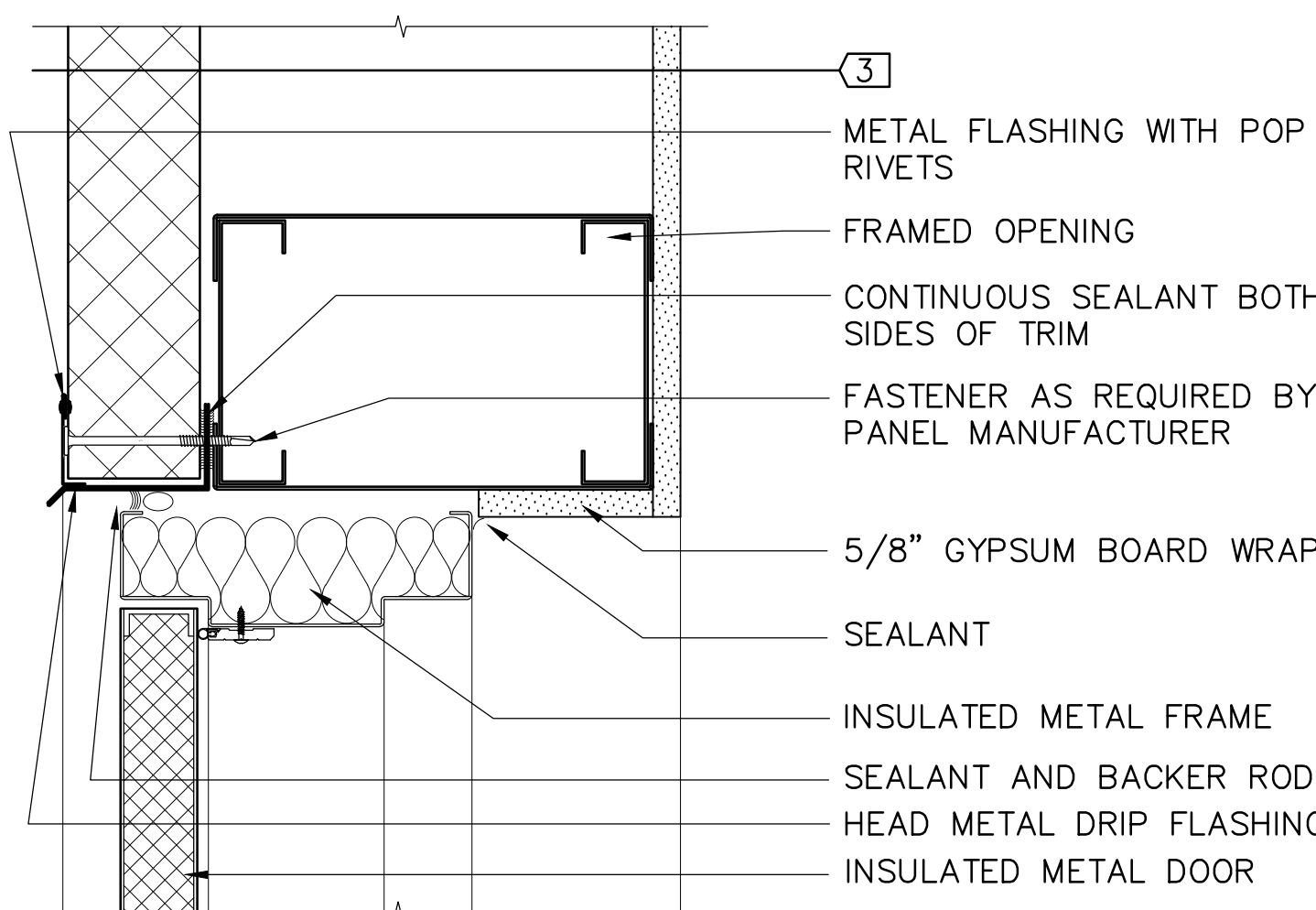
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

STAIR AND RAILING DETAILS

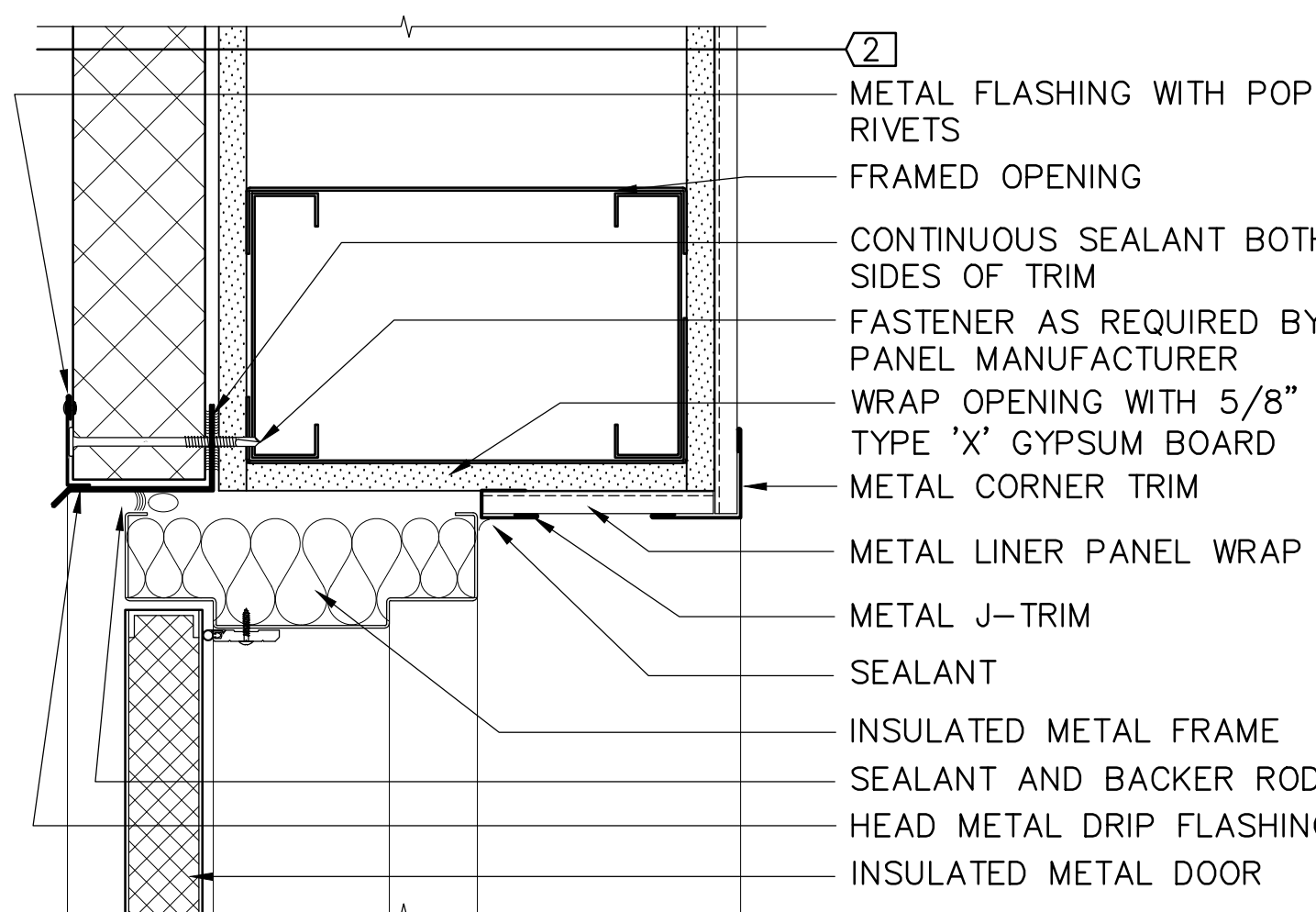
DWG A5.5

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

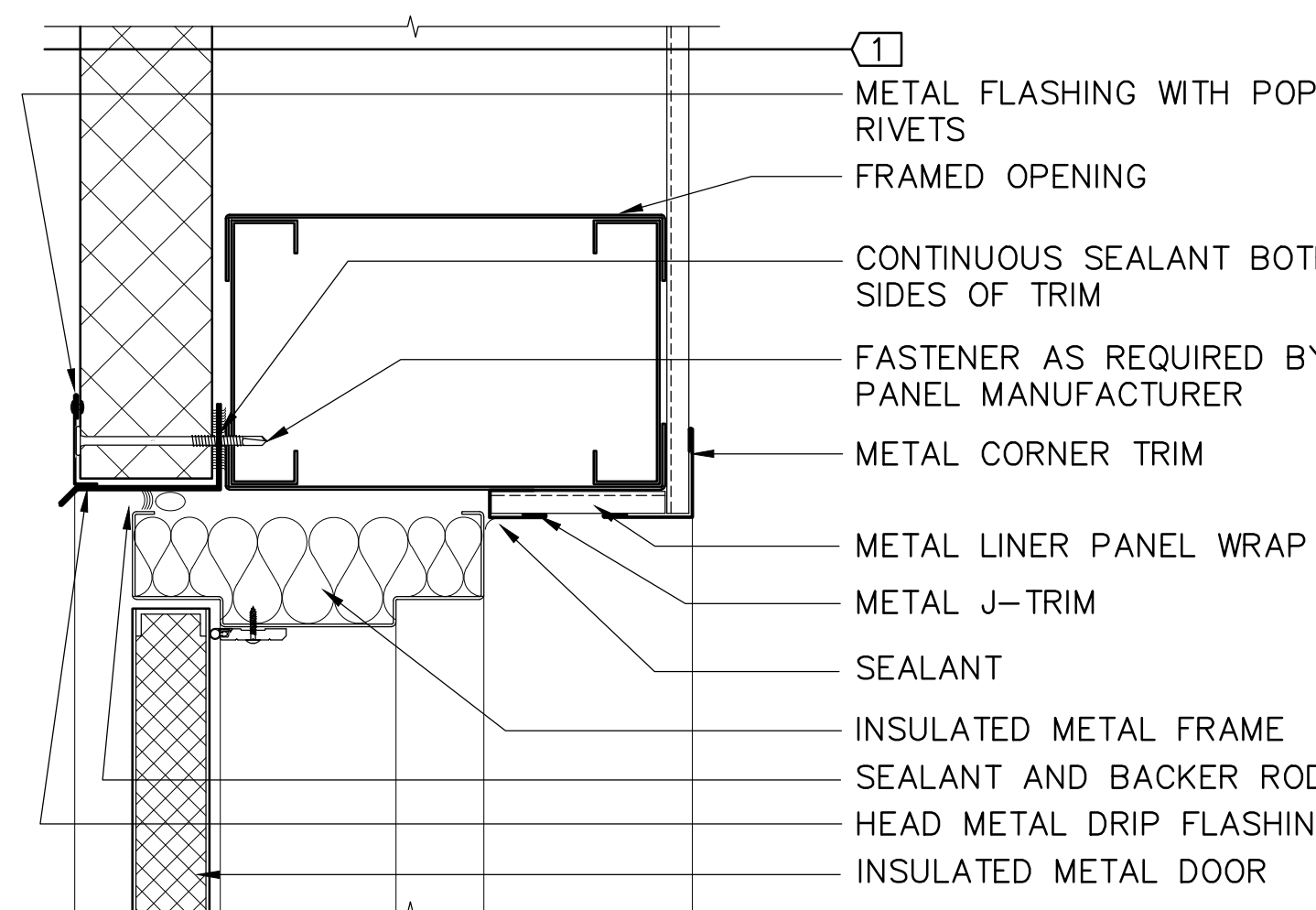
SHEET 125 of 288



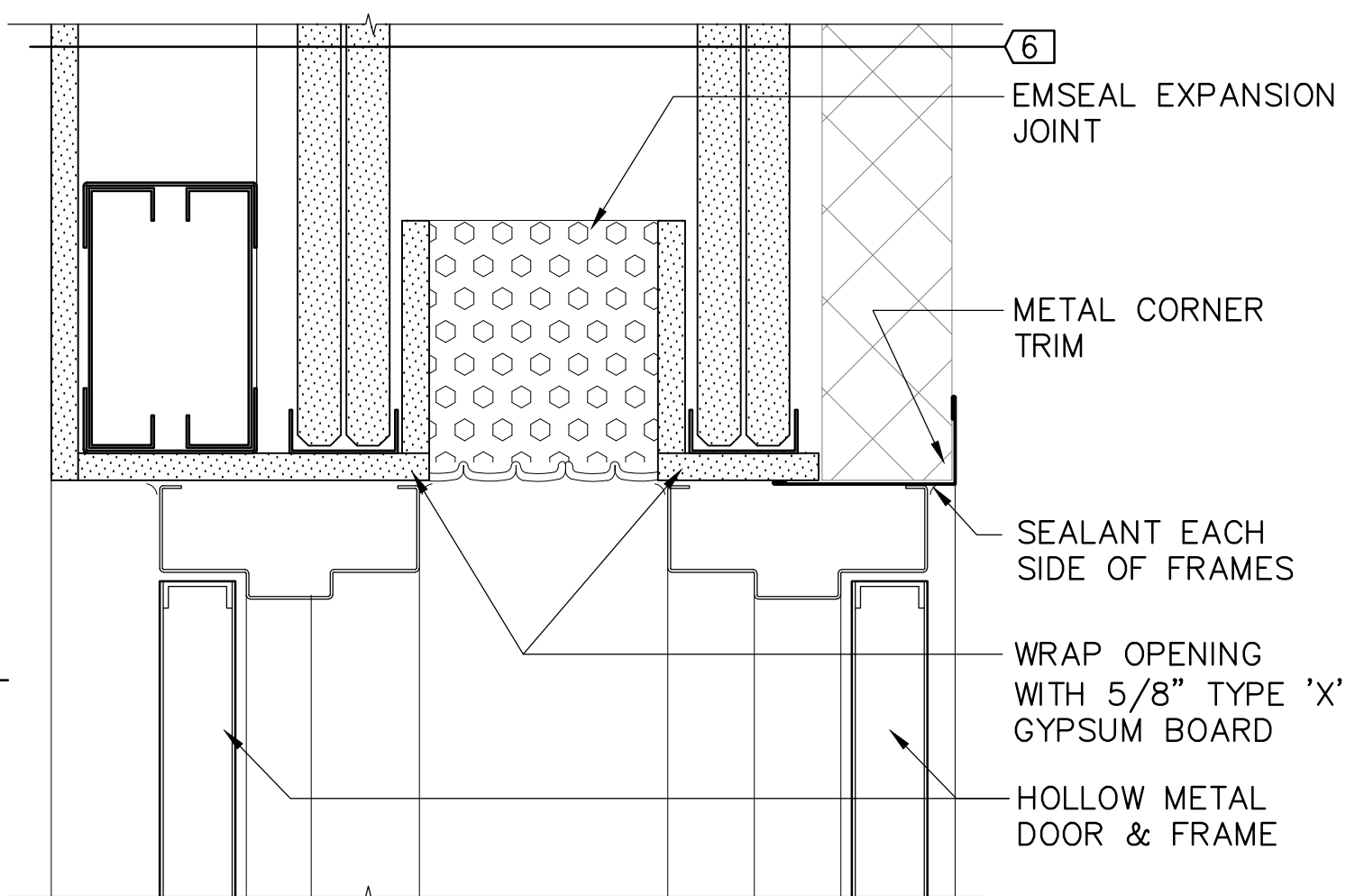
1 HEAD DETAIL
A6.1 3" = 1'-0"



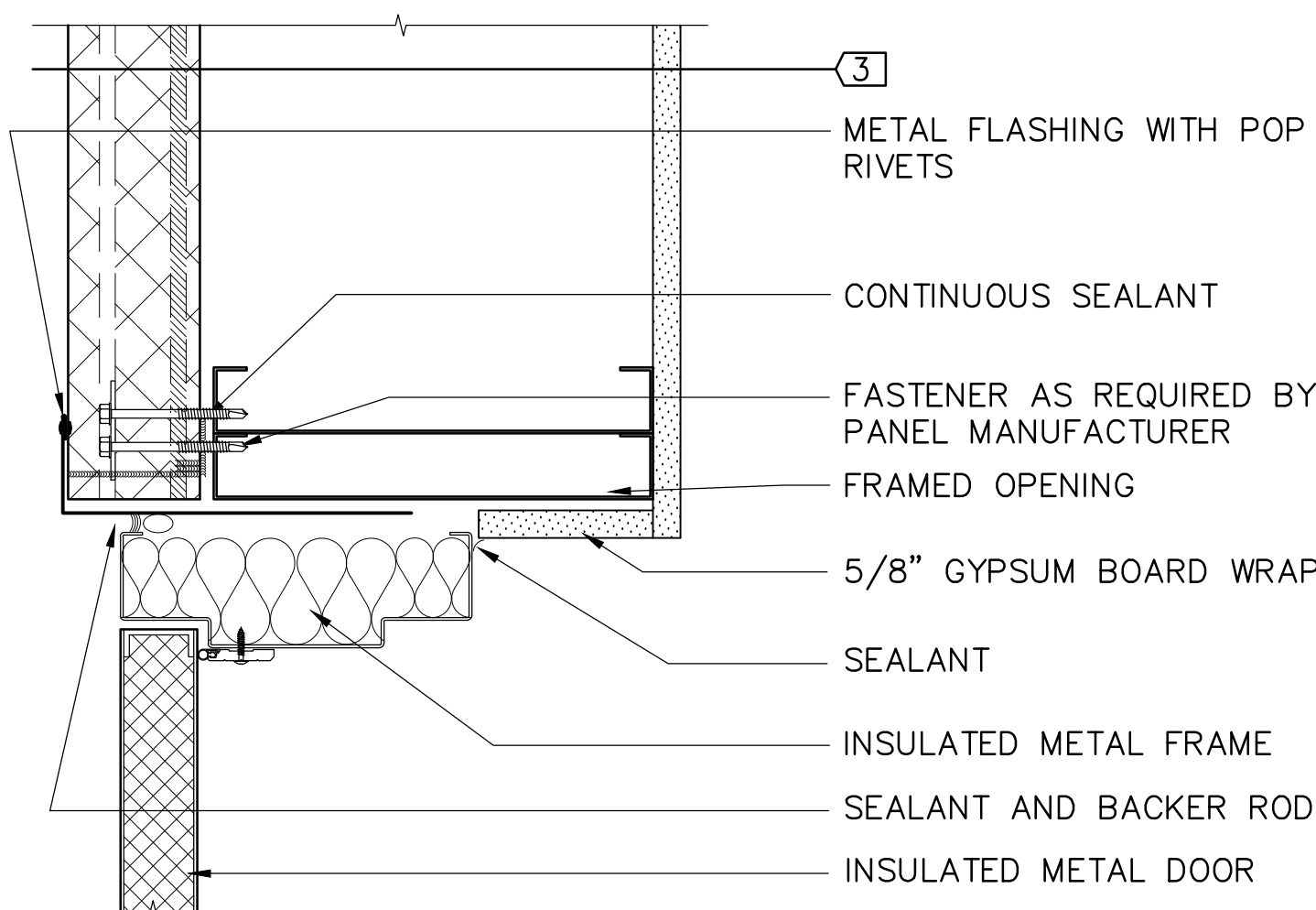
4 HEAD DETAIL
A6.1 3" = 1'-0"



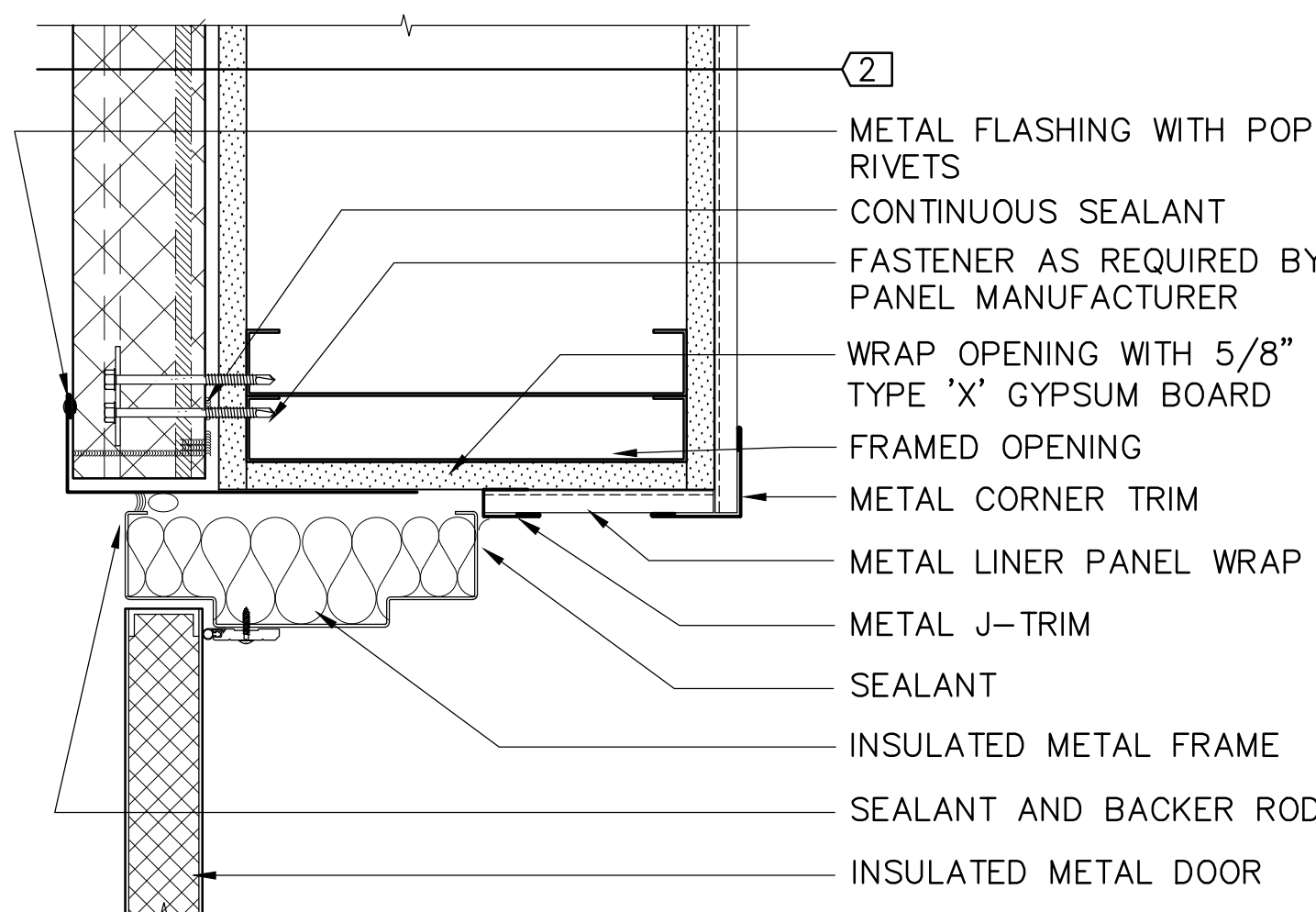
7 HEAD DETAIL
A6.1 3" = 1'-0"



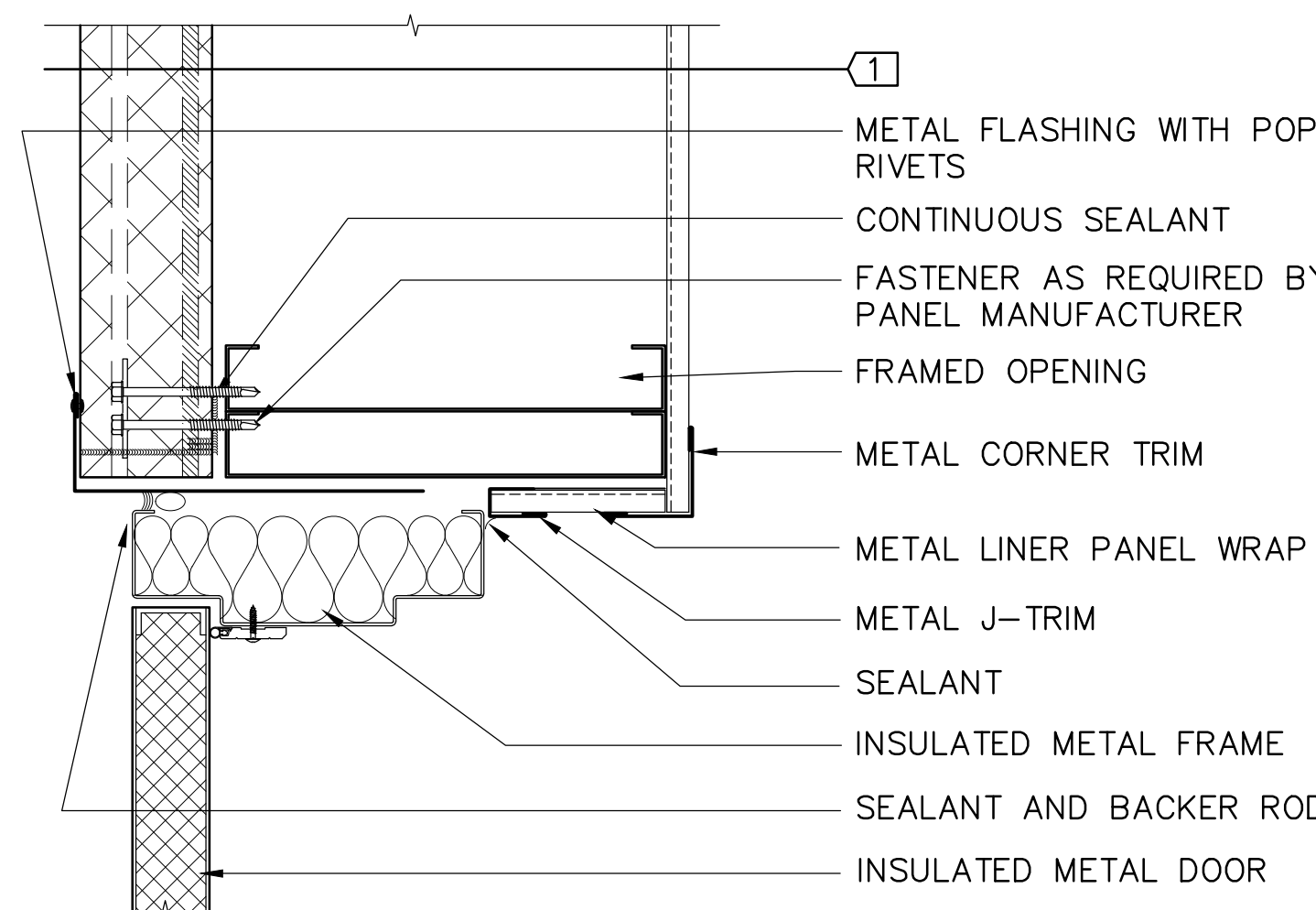
10 HEAD DETAIL
A6.1 3" = 1'-0"



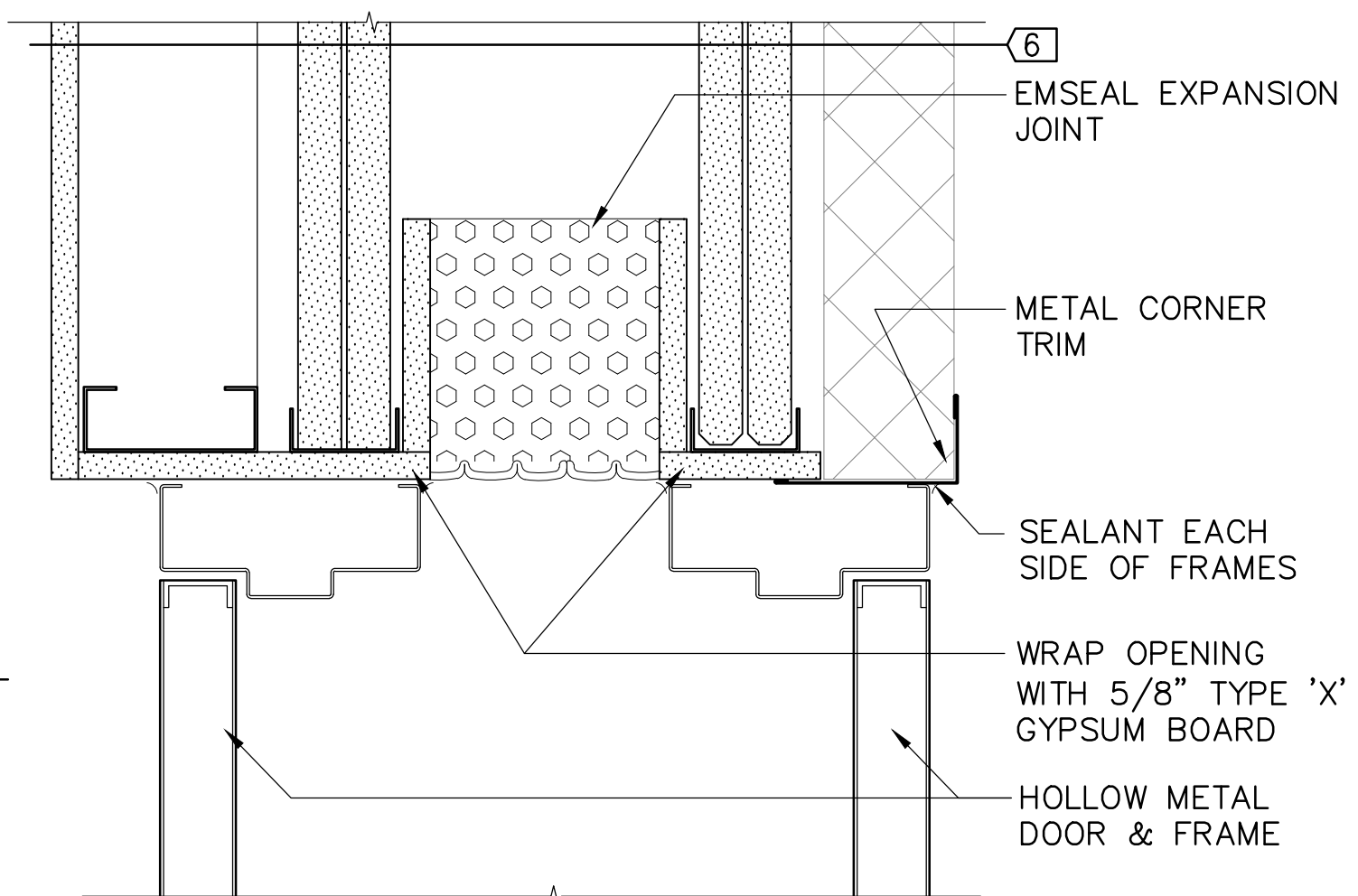
2 JAMB DETAIL
A6.1 3" = 1'-0"



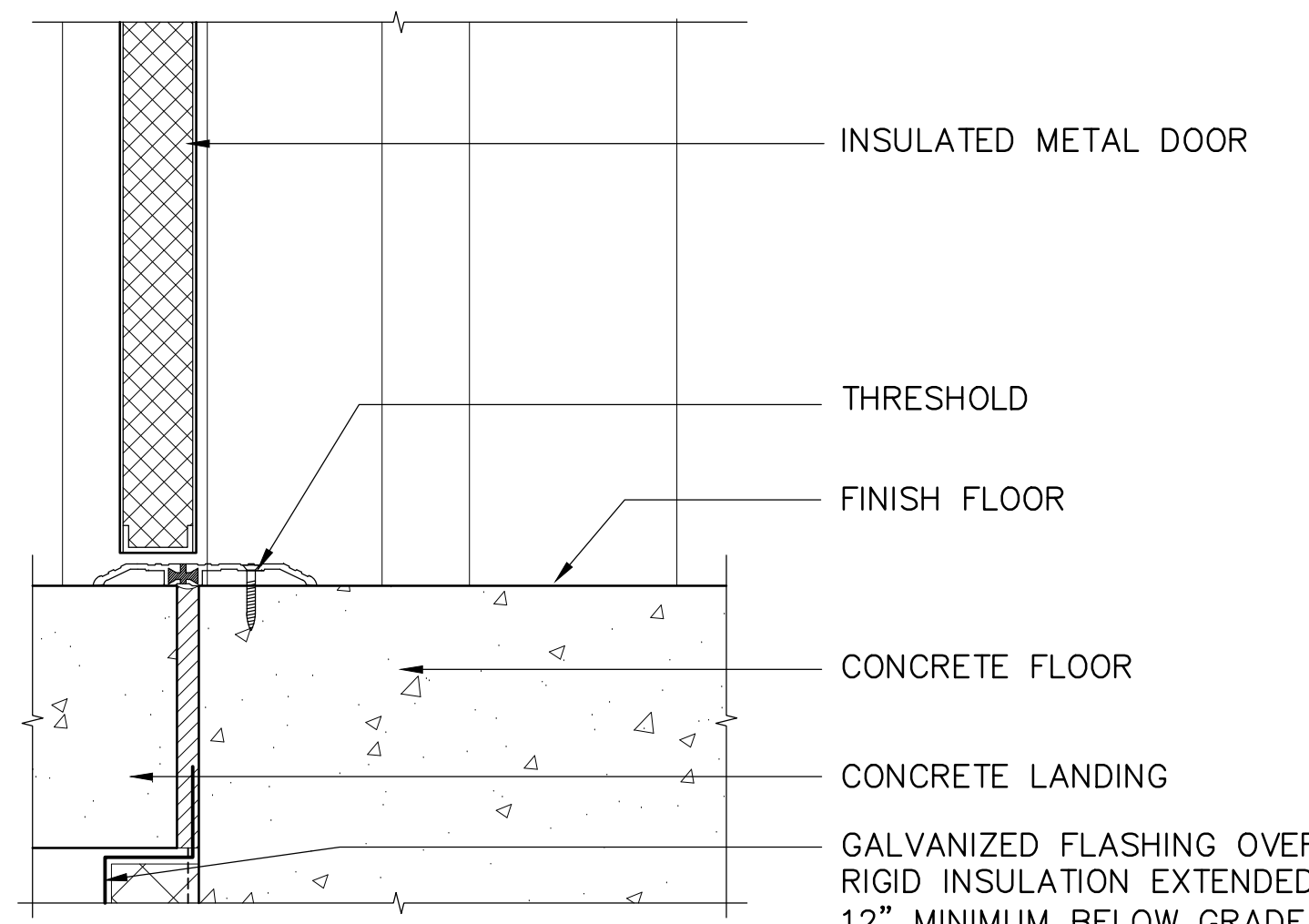
5 JAMB DETAIL
A6.1 3" = 1'-0"



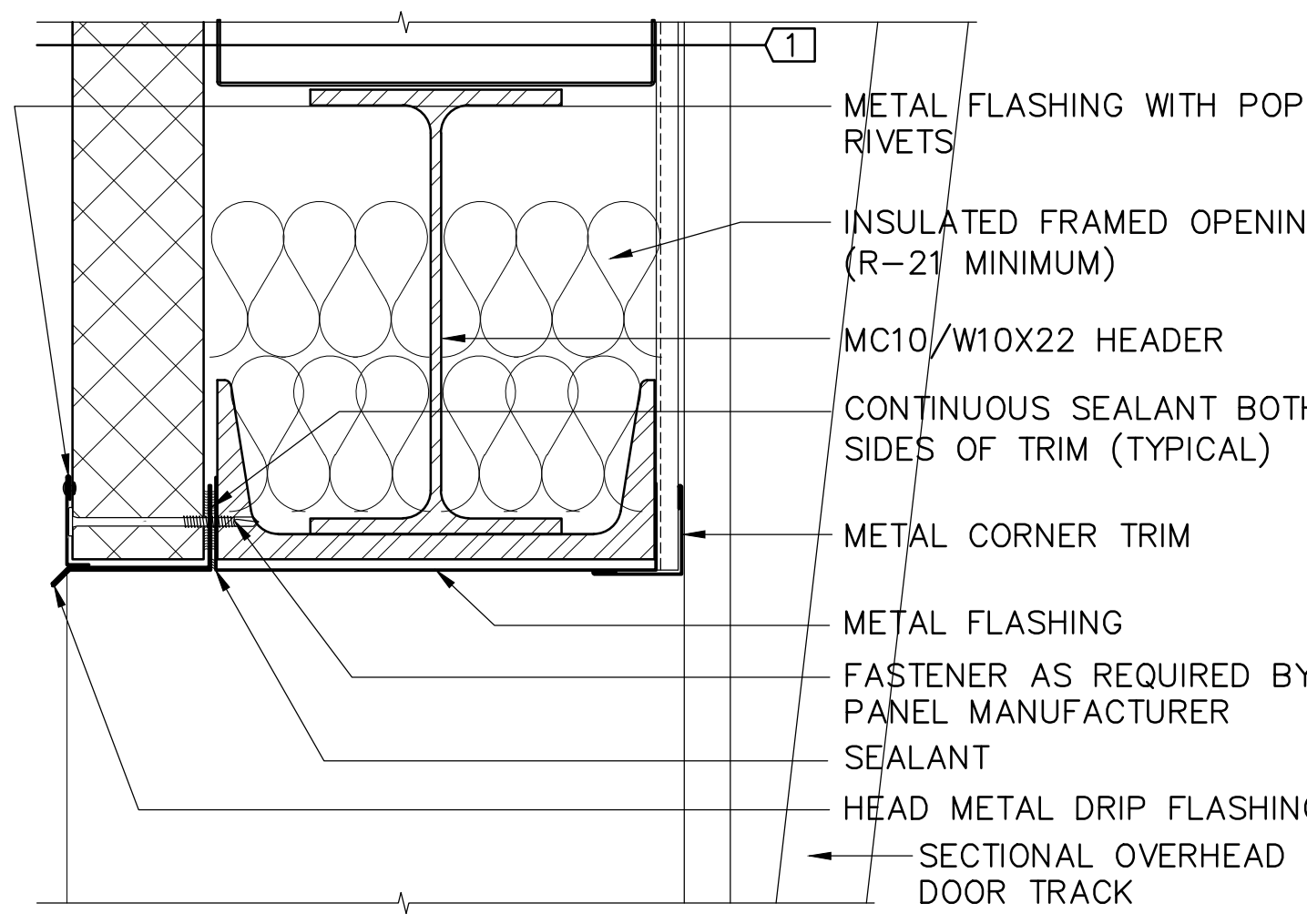
8 JAMB DETAIL
A6.1 3" = 1'-0"



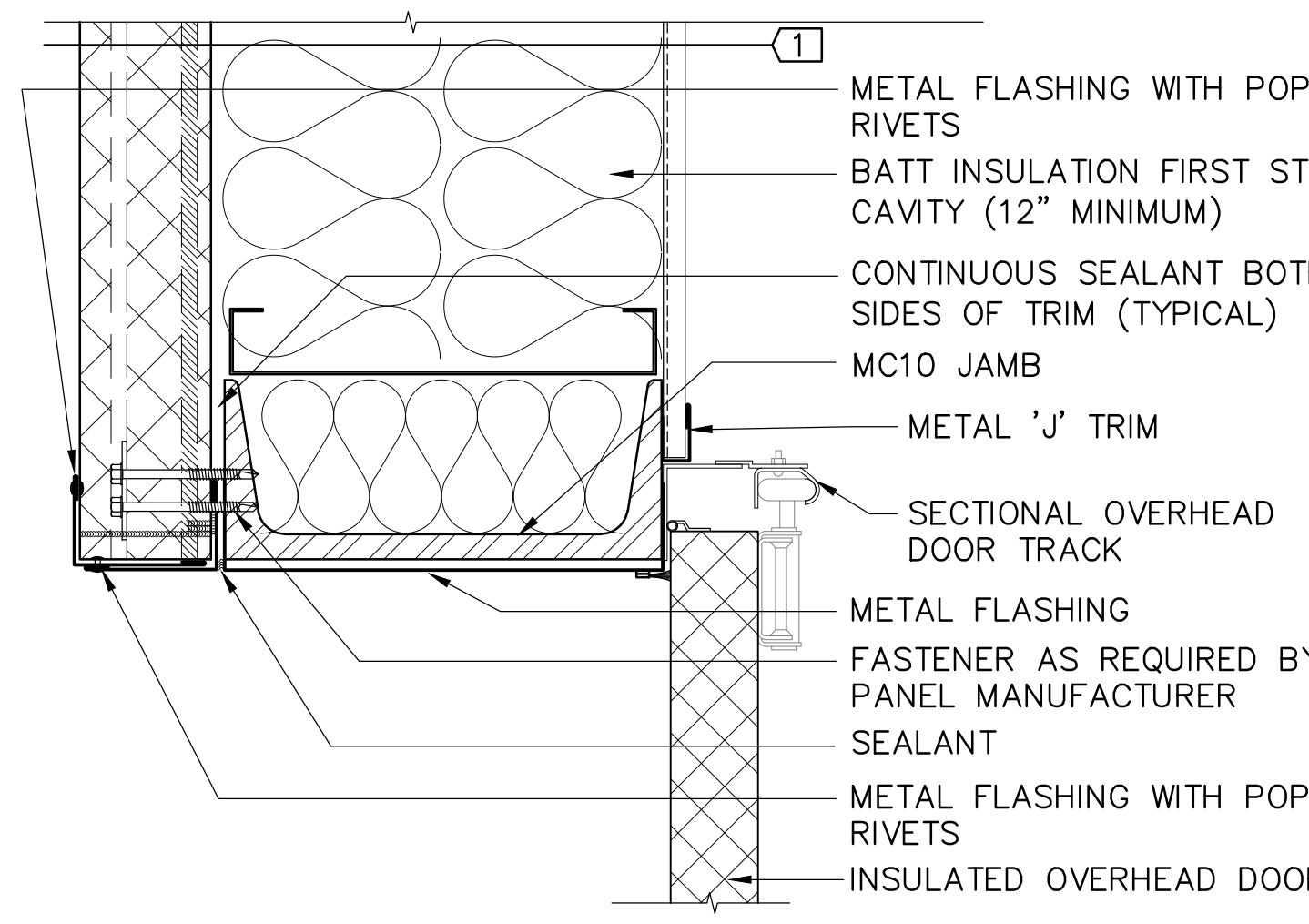
11 JAMB DETAIL
A6.1 3" = 1'-0"



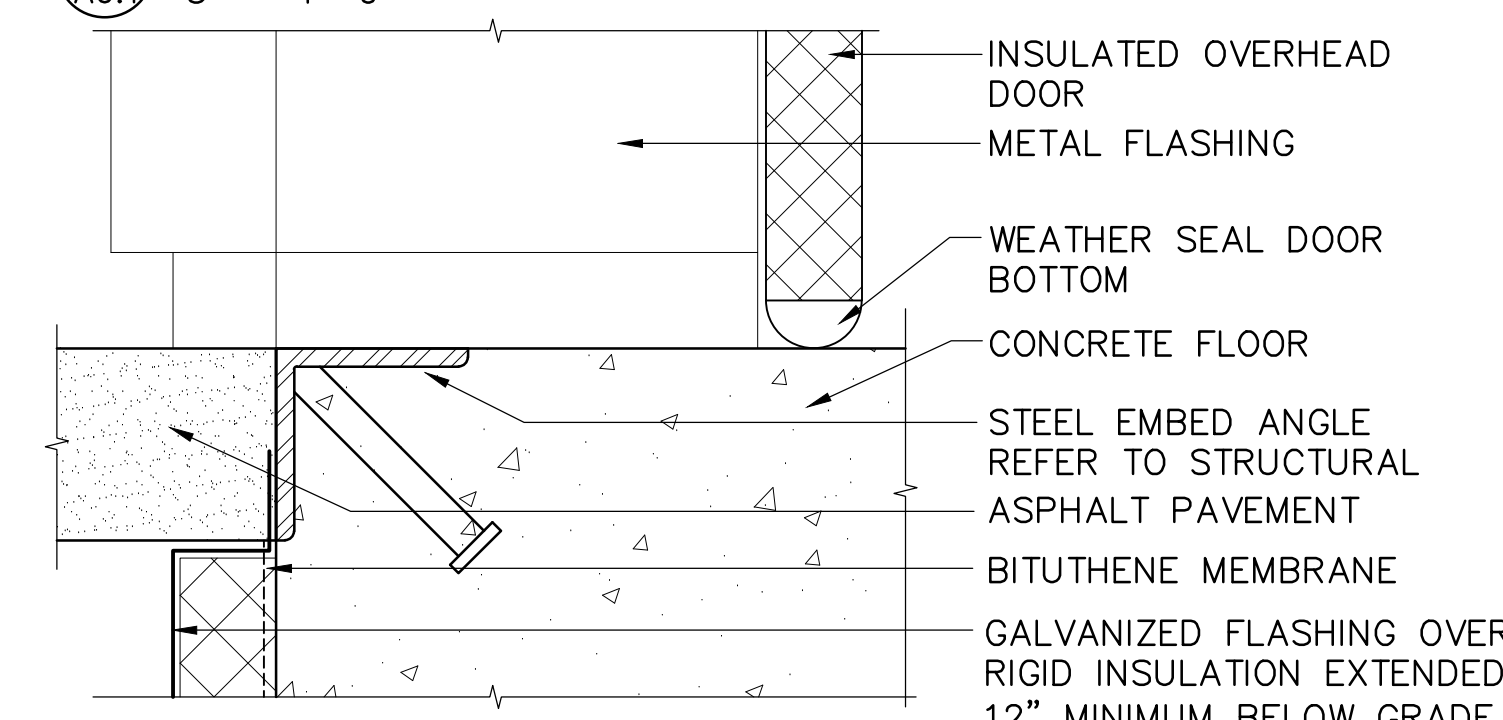
3 SILL DETAIL
A6.1 3" = 1'-0"



6 OVERHEAD DOOR HEAD DETAIL
A6.1 3" = 1'-0"



9 OVERHEAD DOOR JAMB DETAIL
A6.1 3" = 1'-0"



12 OVERHEAD DOOR SILL DETAIL
A6.1 3" = 1'-0"

REV	DATE	DESCRIPTION	BY

REVISIONS

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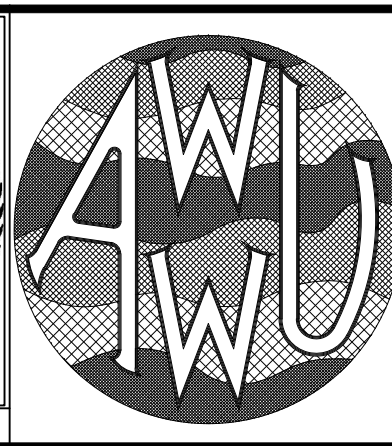
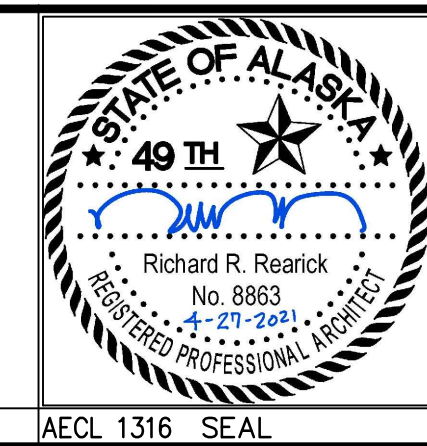
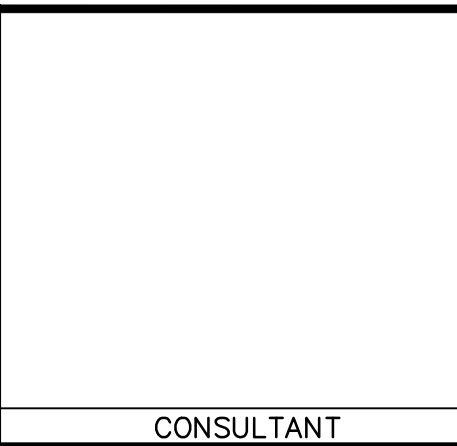
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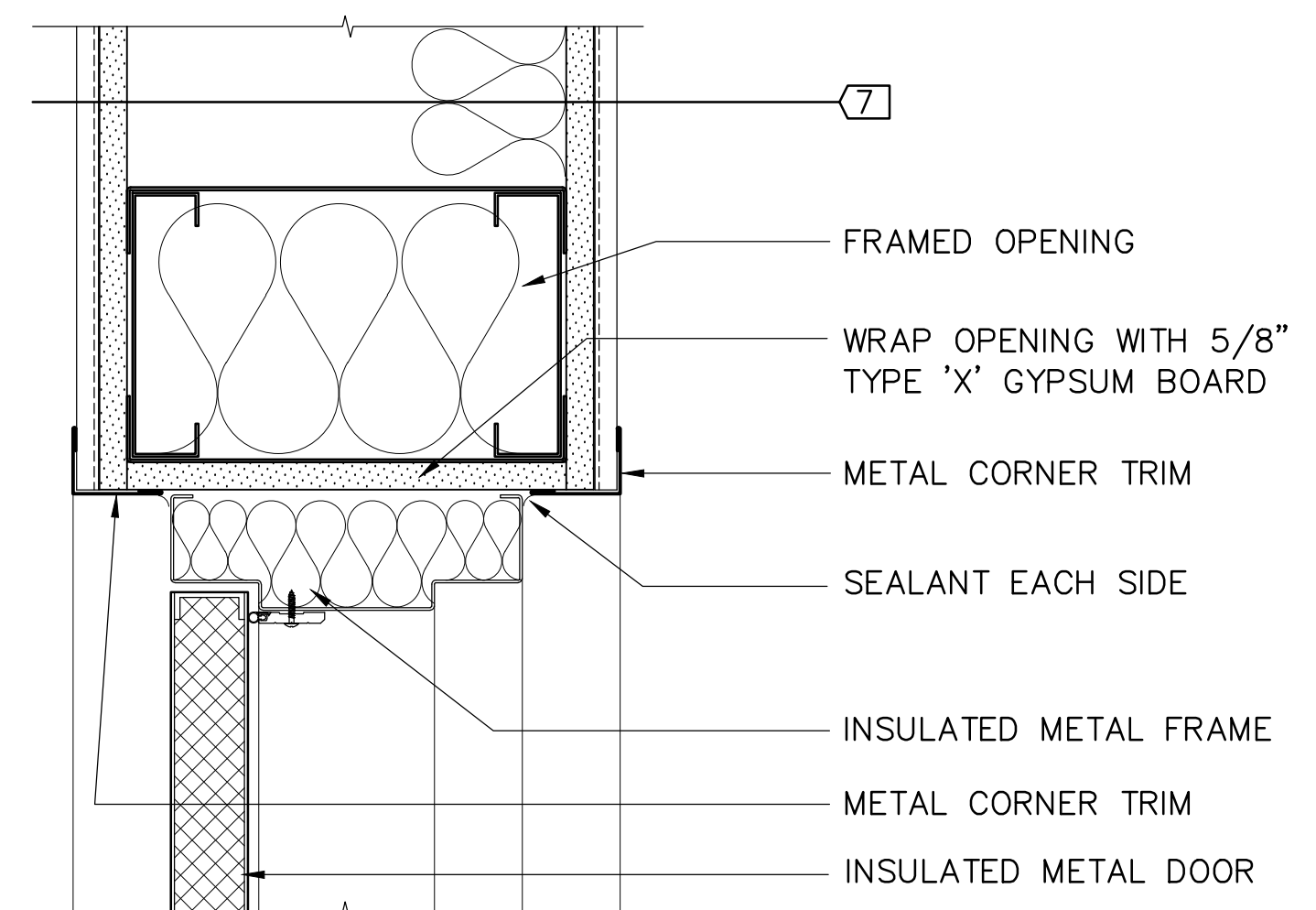
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

DOOR DETAILS

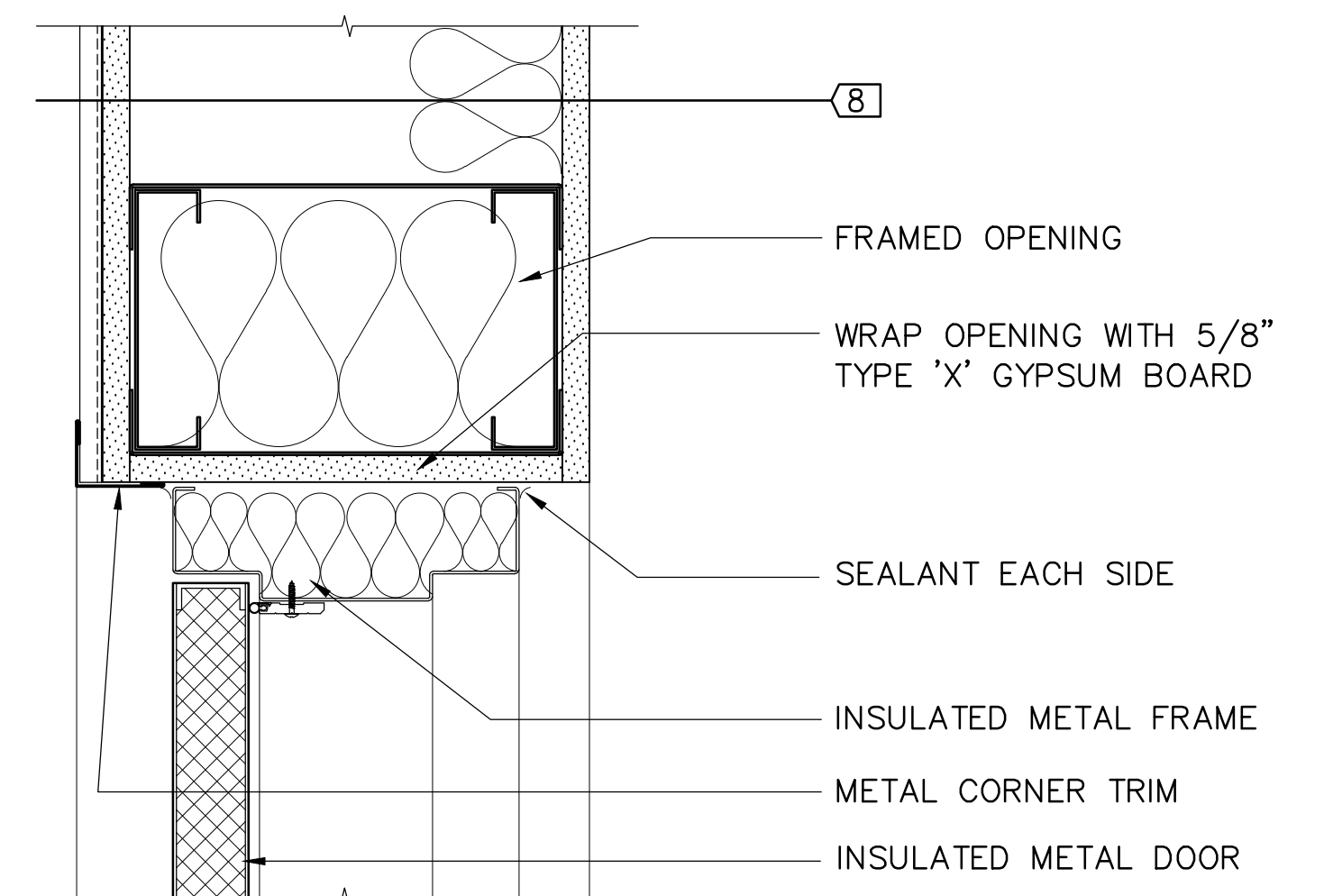
DWG
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HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

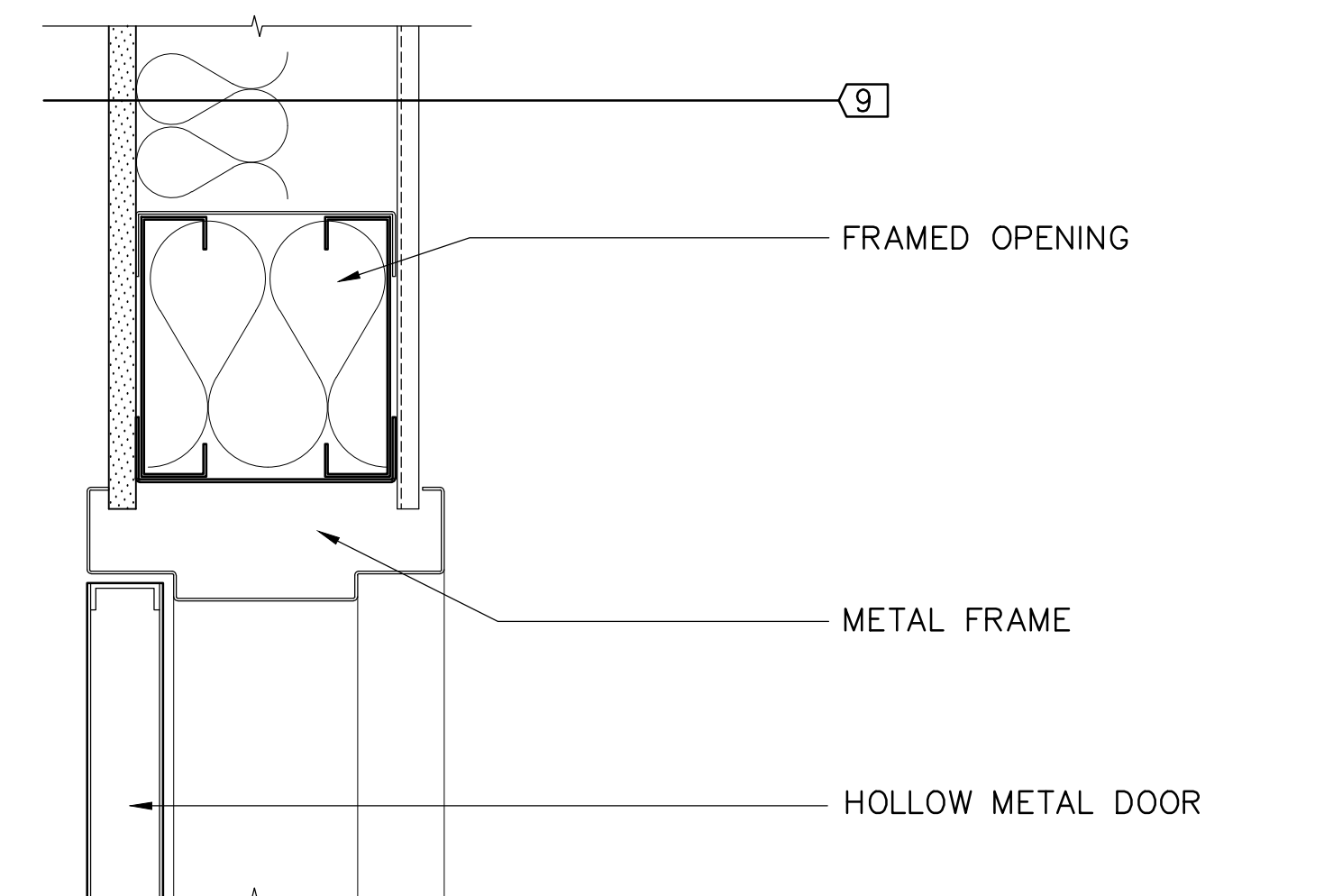
SHEET 126 of 288



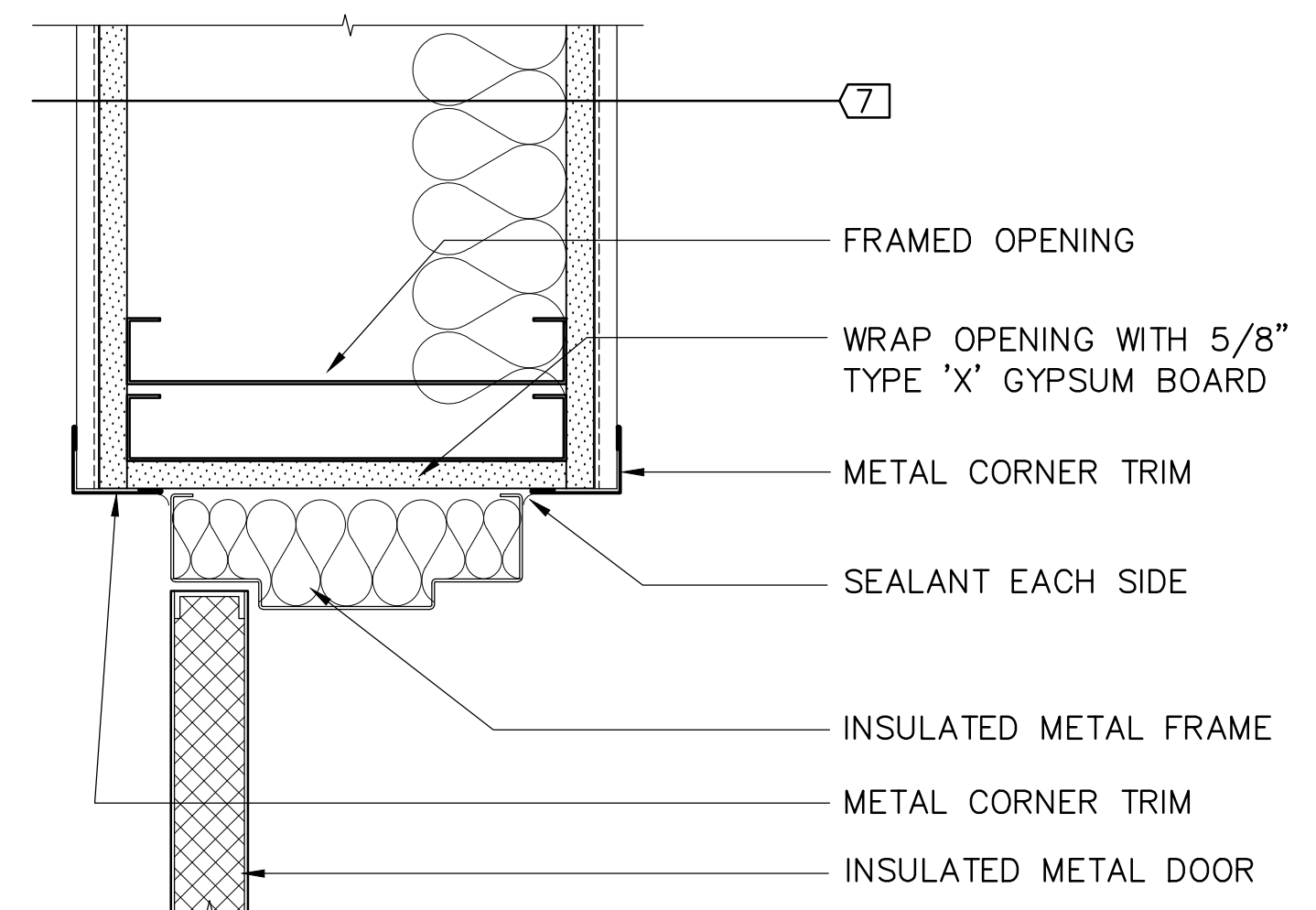
1 HEAD DETAIL
A6.2 3" = 1'-0" 1-HOUR FIRE RATING



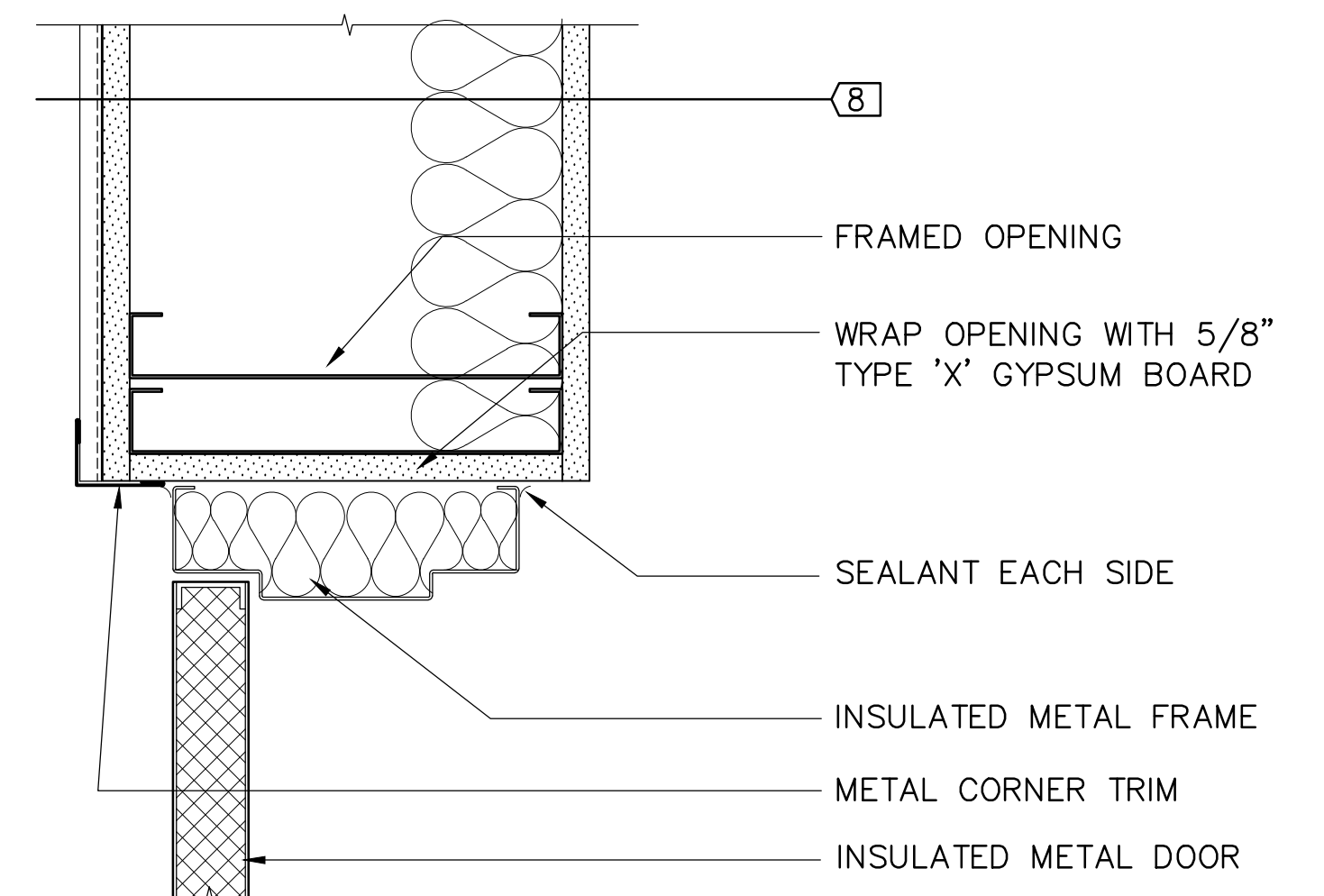
4 HEAD DETAIL
A6.2 3" = 1'-0" 1-HOUR FIRE RATING



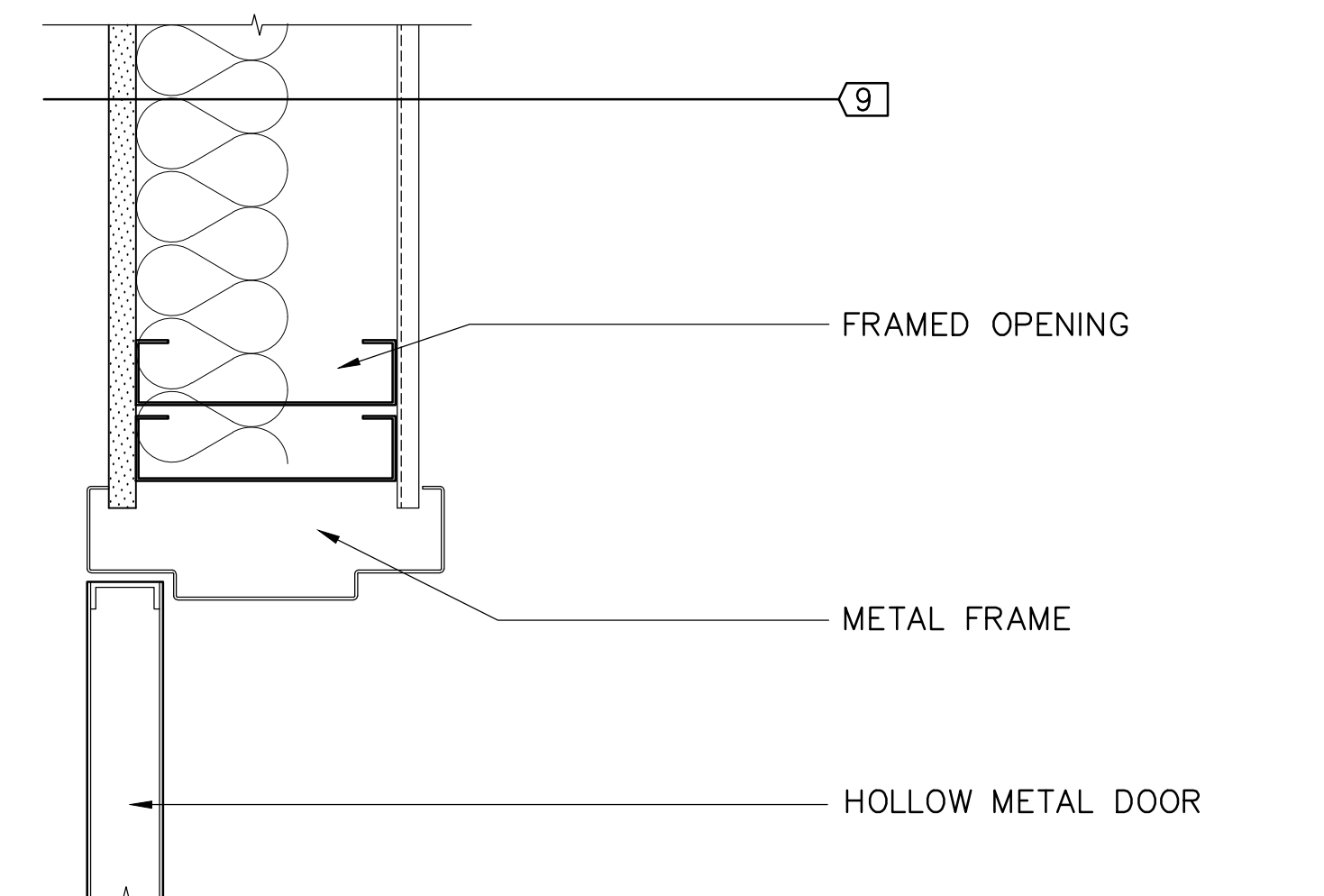
7 HEAD DETAIL
A6.2 3" = 1'-0" 1-HOUR FIRE RATING



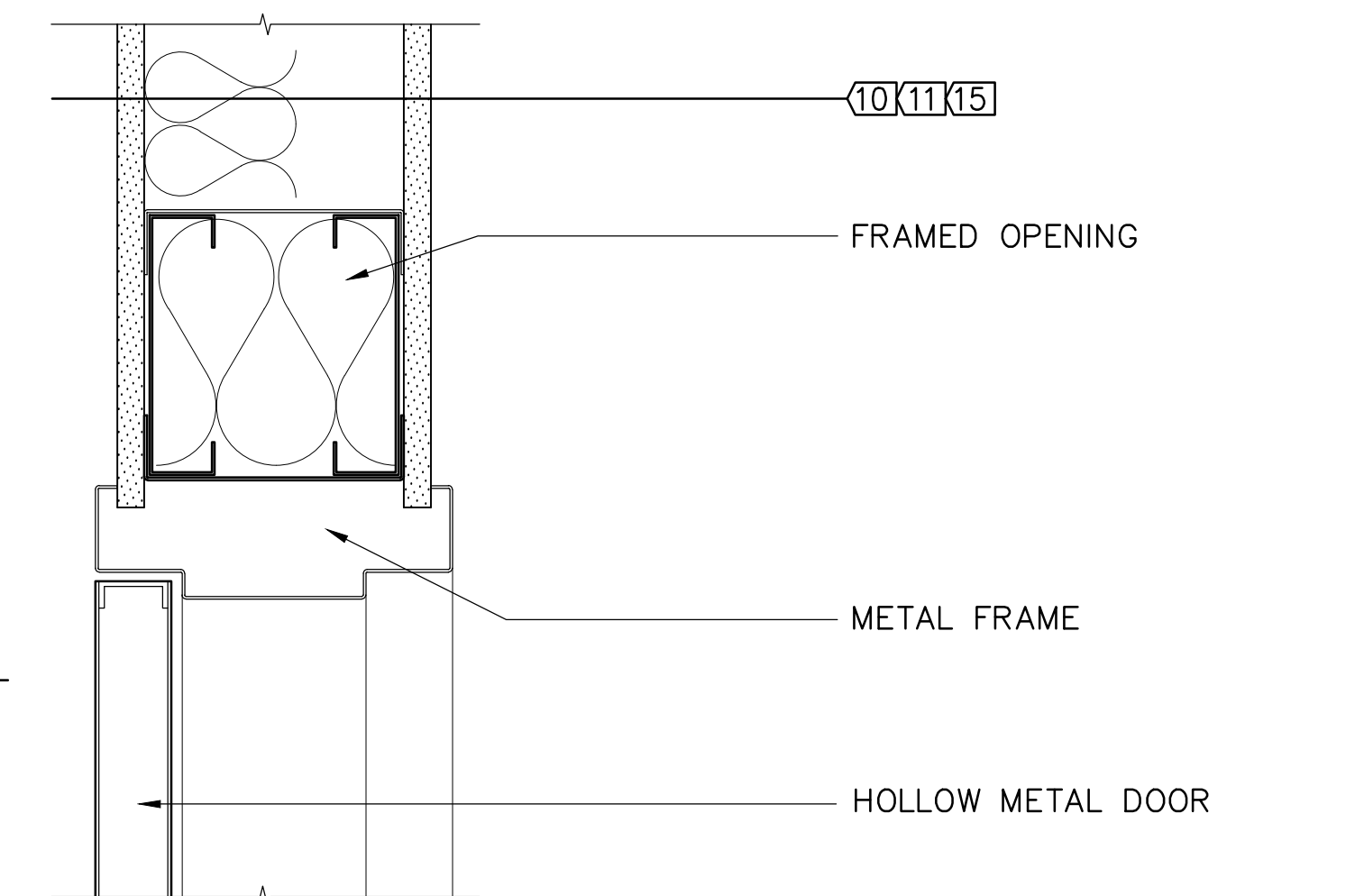
2 JAMB DETAIL
A6.2 3" = 1'-0" 1-HOUR FIRE RATING



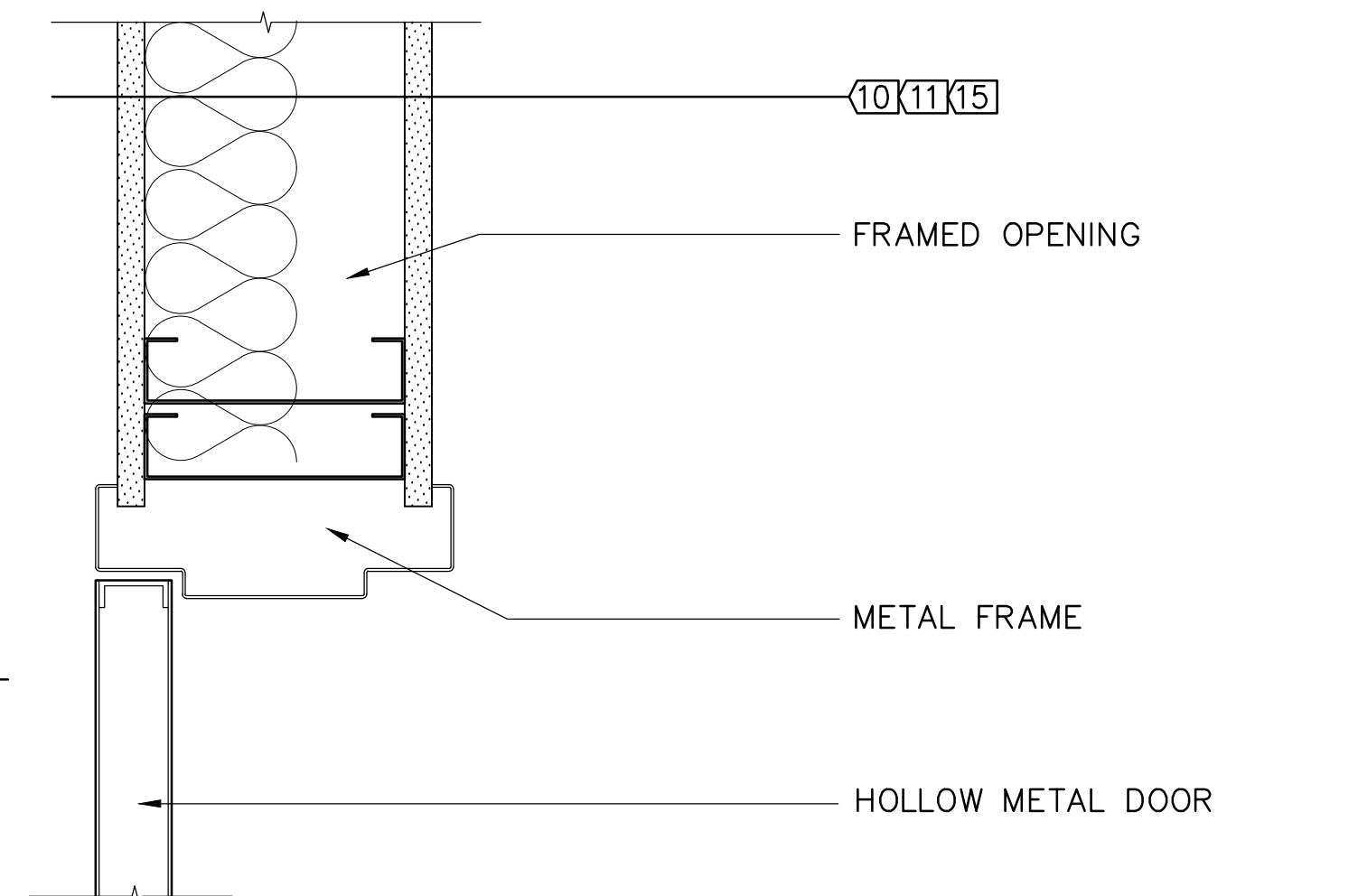
5 JAMB DETAIL
A6.2 3" = 1'-0" 1-HOUR FIRE RATING



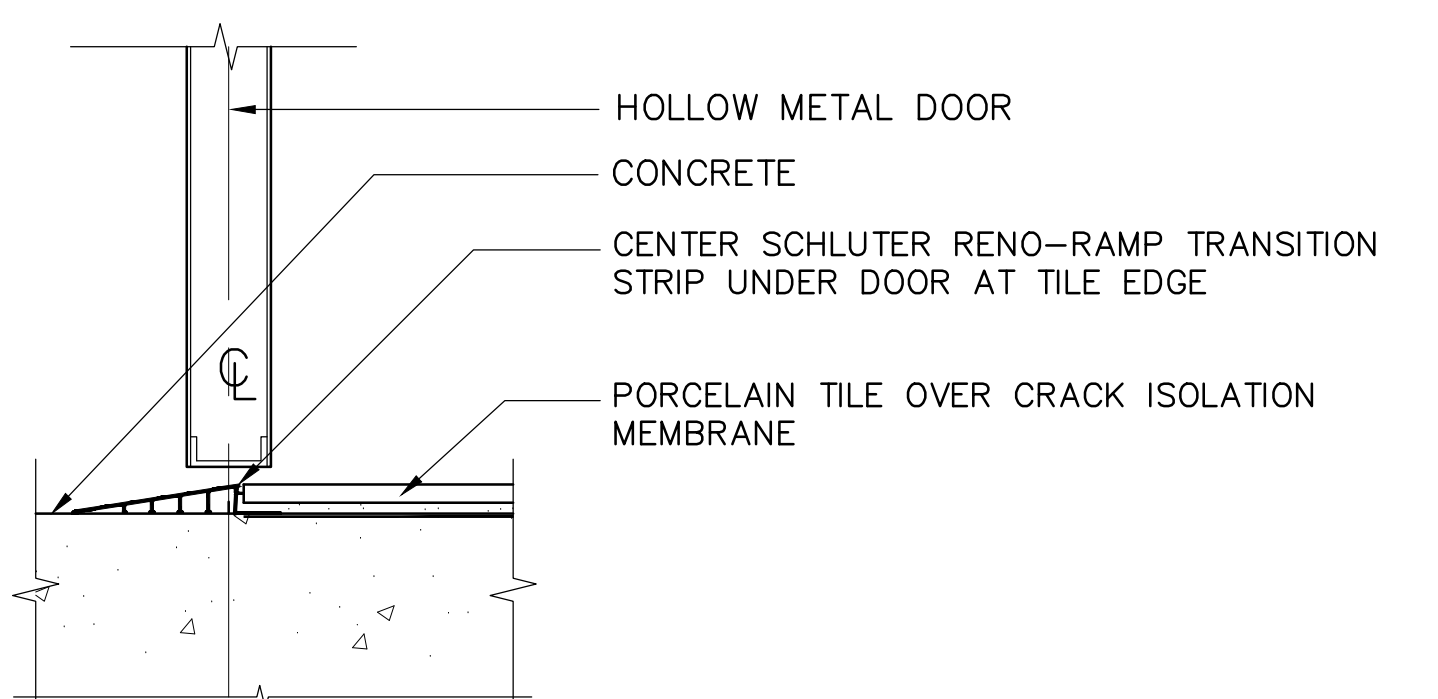
8 JAMB DETAIL
A6.2 3" = 1'-0" 1-HOUR FIRE RATING



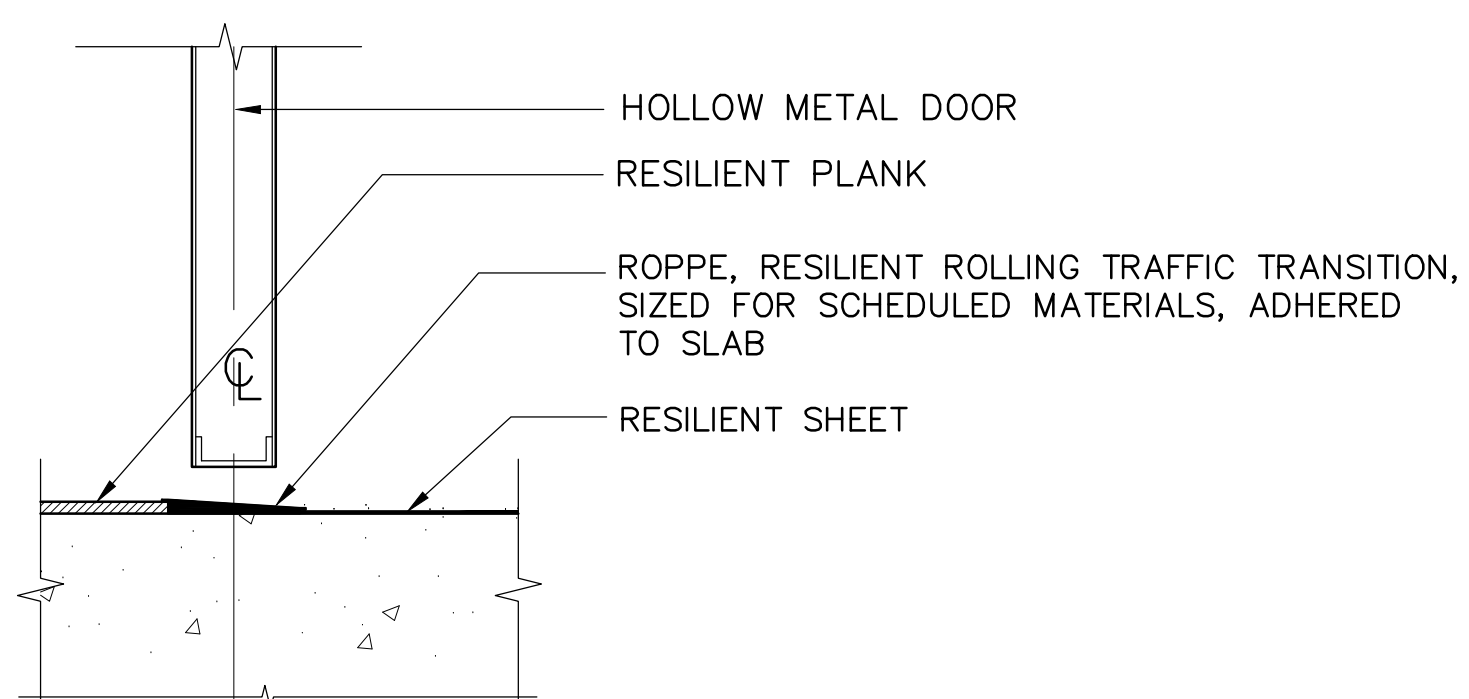
10 HEAD DETAIL
A6.2 3" = 1'-0" REFER TO WALL TYPES FOR STUD WIDTH



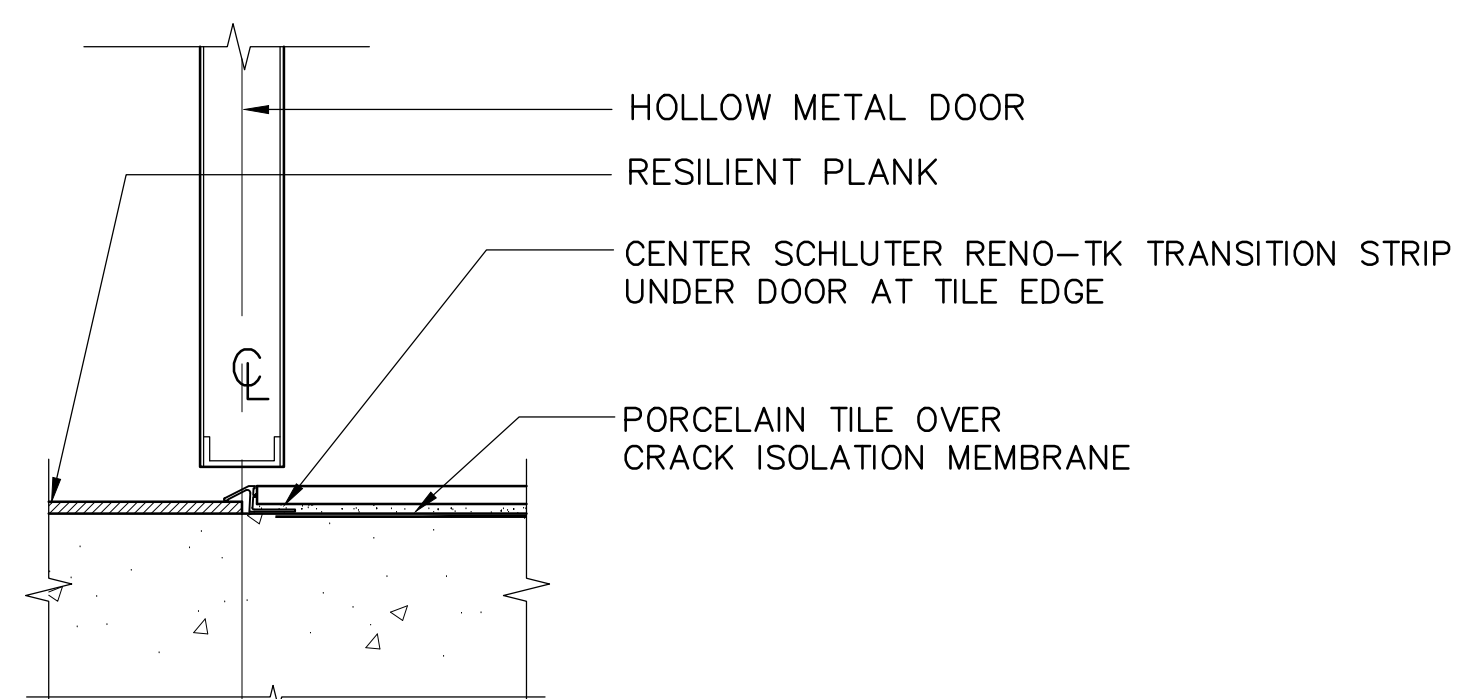
11 JAMB DETAIL
A6.2 3" = 1'-0" REFER TO WALL TYPES FOR STUD WIDTH



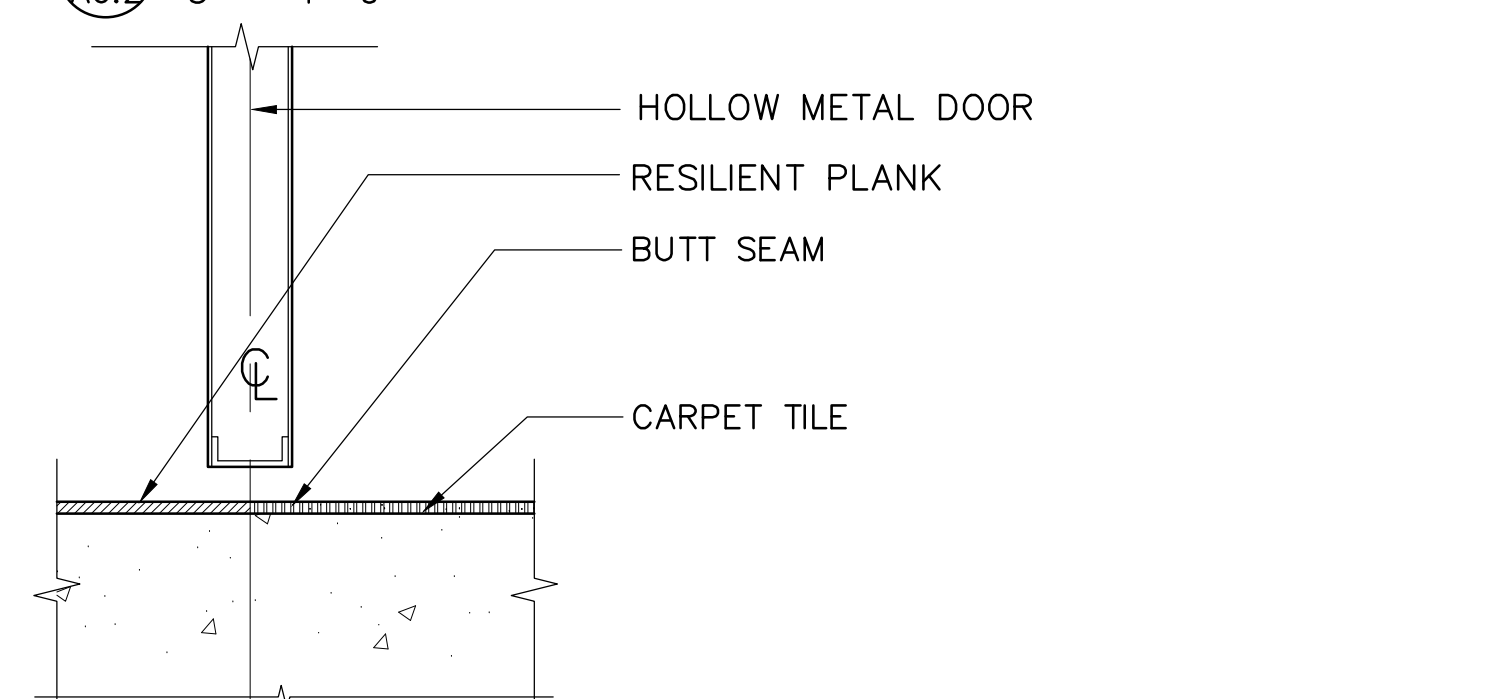
3 CONCRETE TO TILE TRANSITION
A6.2 3" = 1'-0"



6 RESILIENT PLANK TO RESILIENT
A6.2 3" = 1'-0"



9 RESILIENT PLANK TO TILE
A6.2 1 1/2" = 1'-0"



12 CARPET TO RESILIENT PLANK
A6.2 1 1/2" = 1'-0"

REV	DATE	DESCRIPTION	BY

REVISIONS

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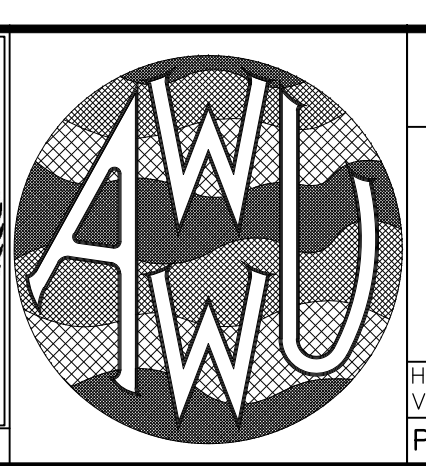
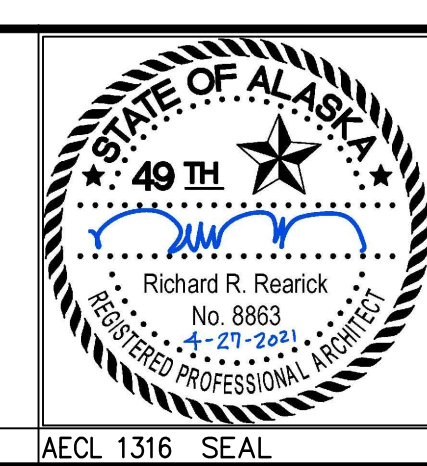
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CONSULTANT



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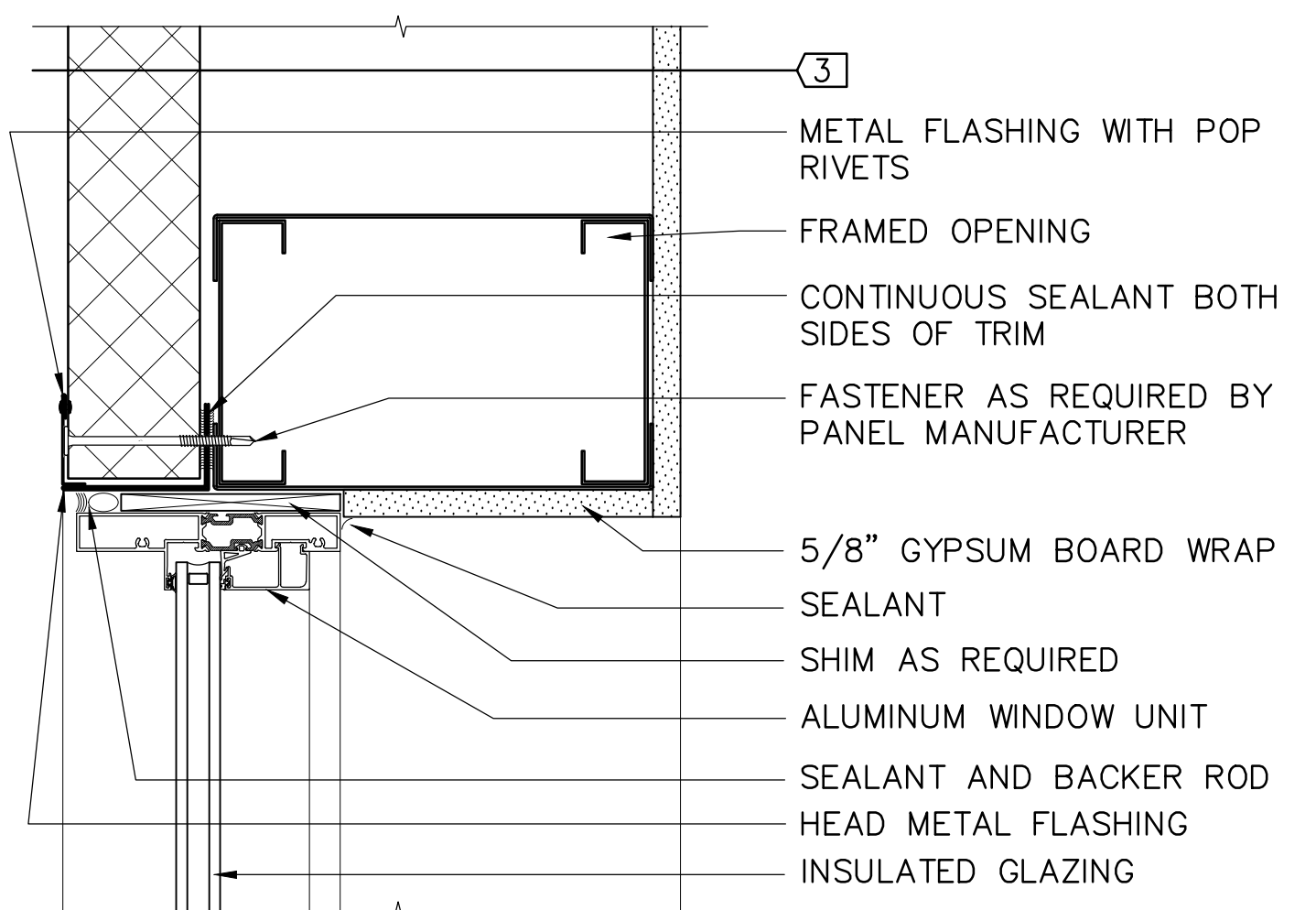
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

DOOR DETAILS

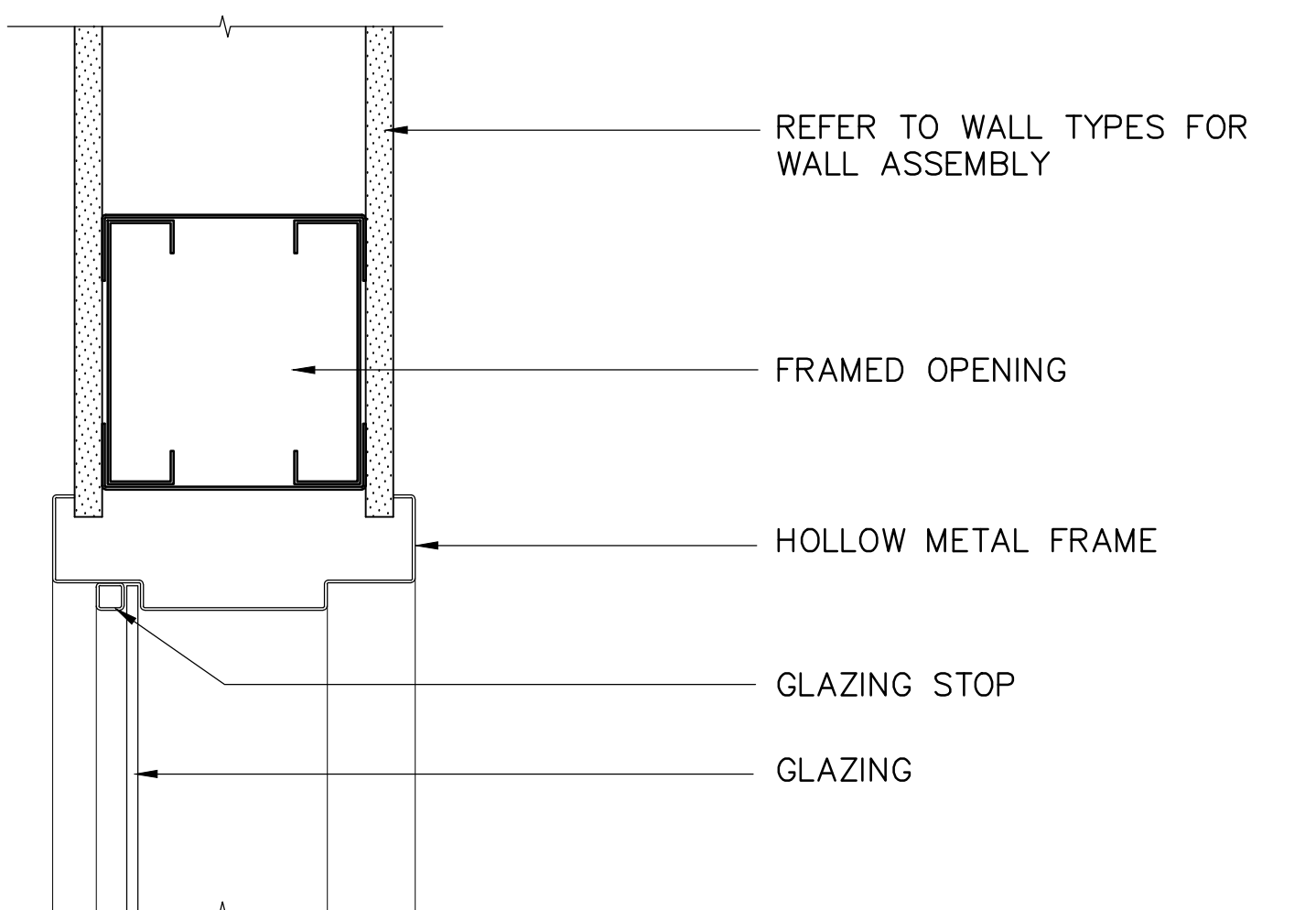
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HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

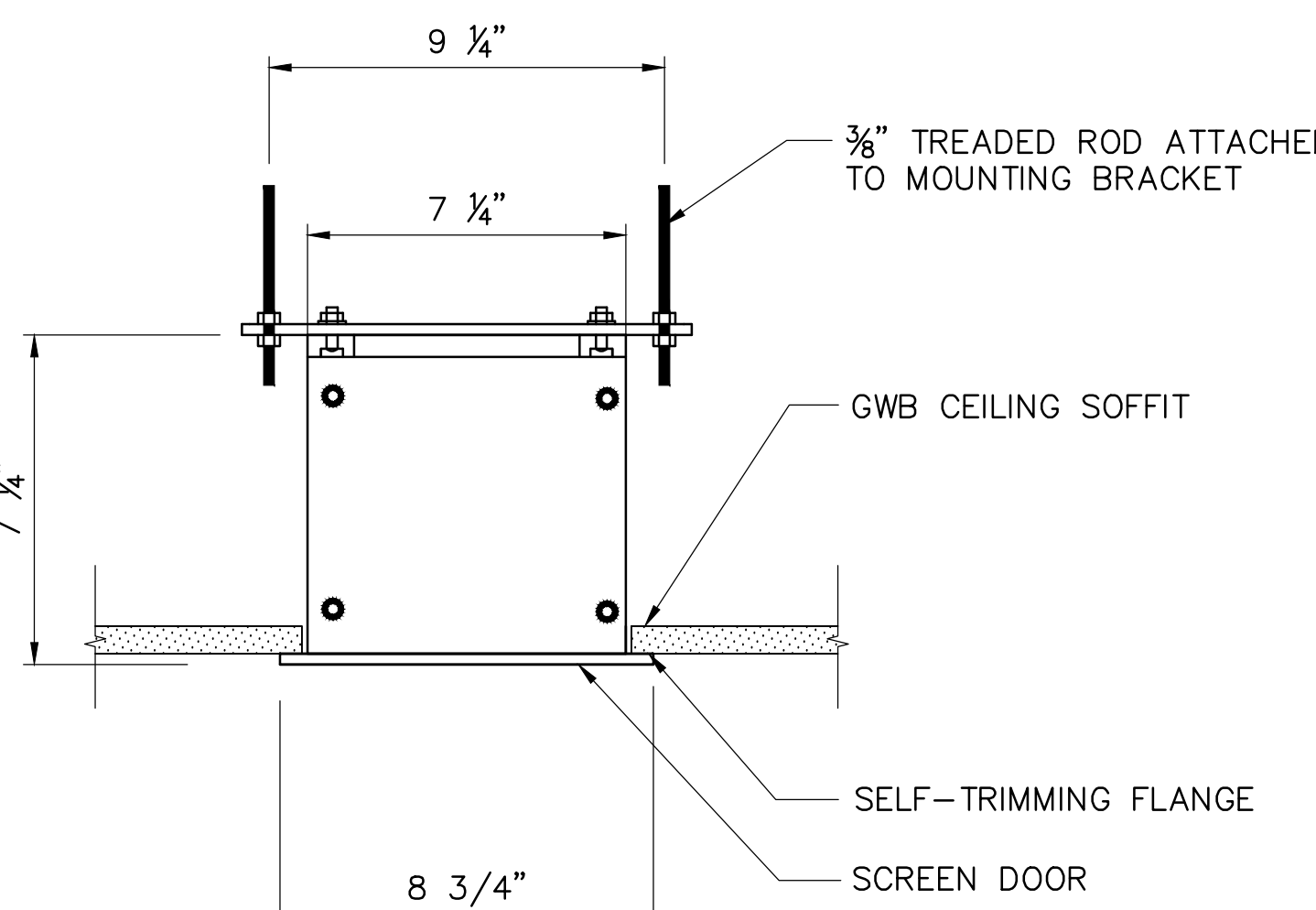
SHEET 127 of 288



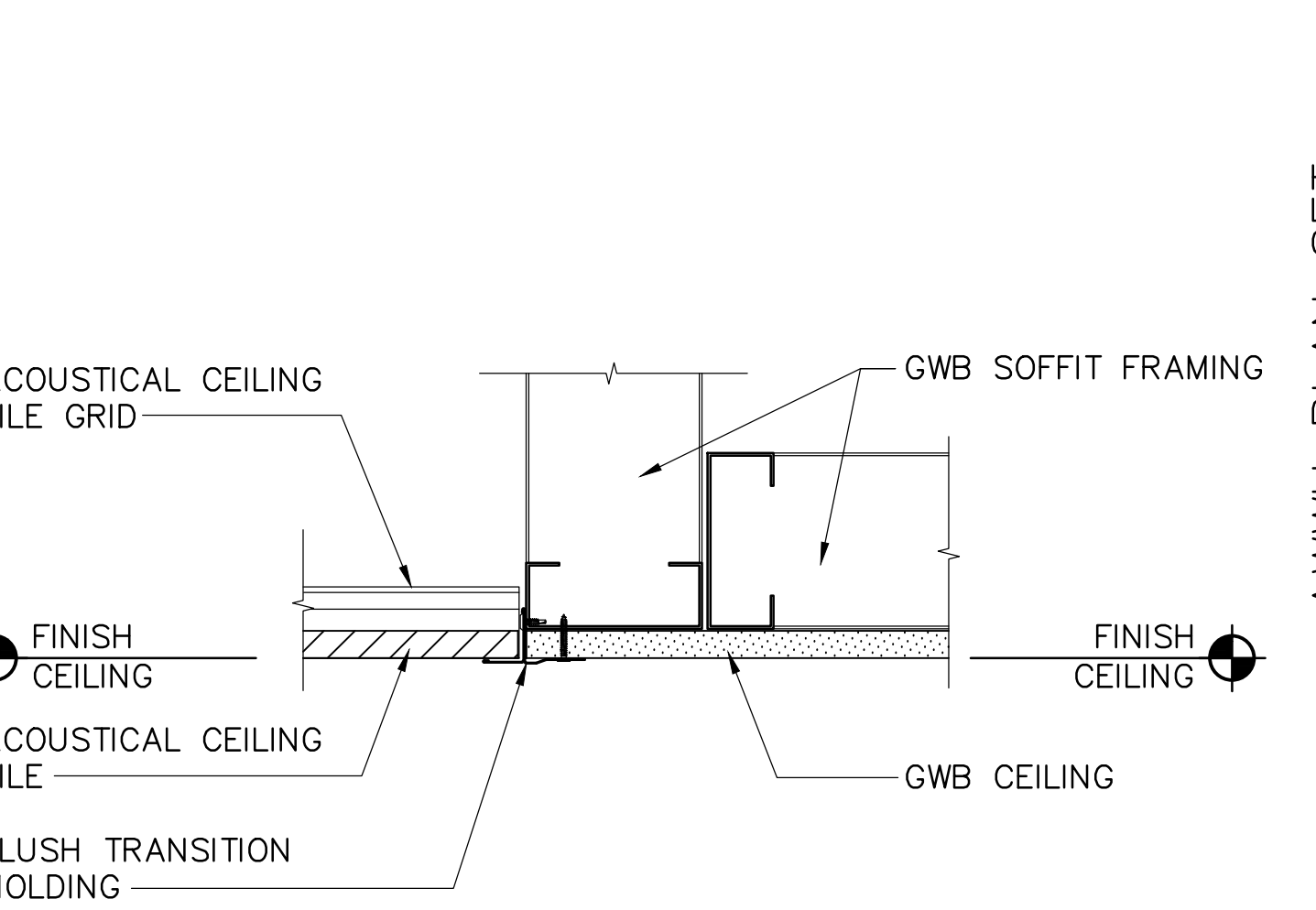
1 WINDOW HEAD DETAIL
A6.3 3" = 1'-0" REFER TO 5&8/A6.3 FOR INTERIOR ROLLER SHADES



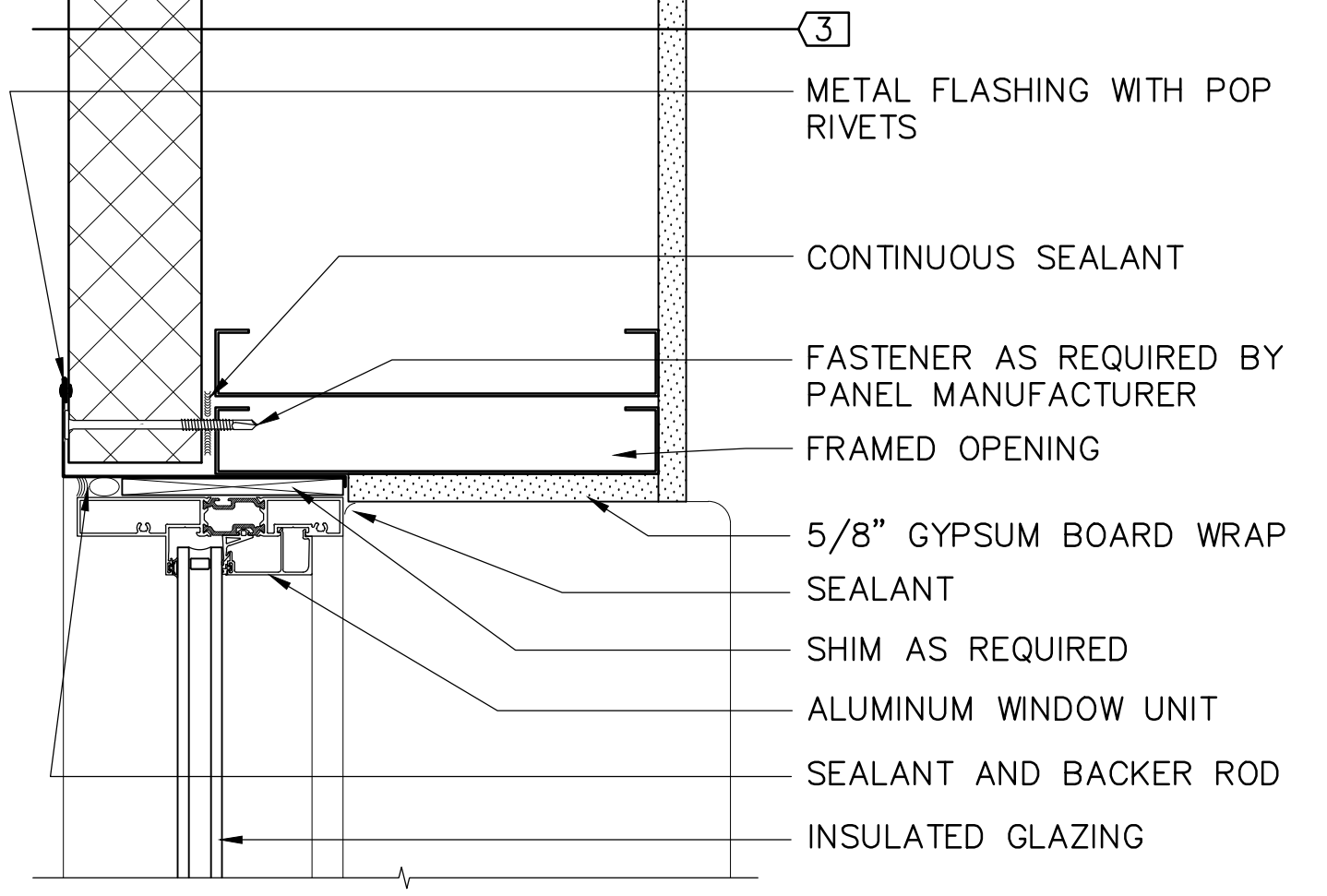
4 HEAD/JAMB/SILL DETAIL
A6.3 3" = 1'-0"



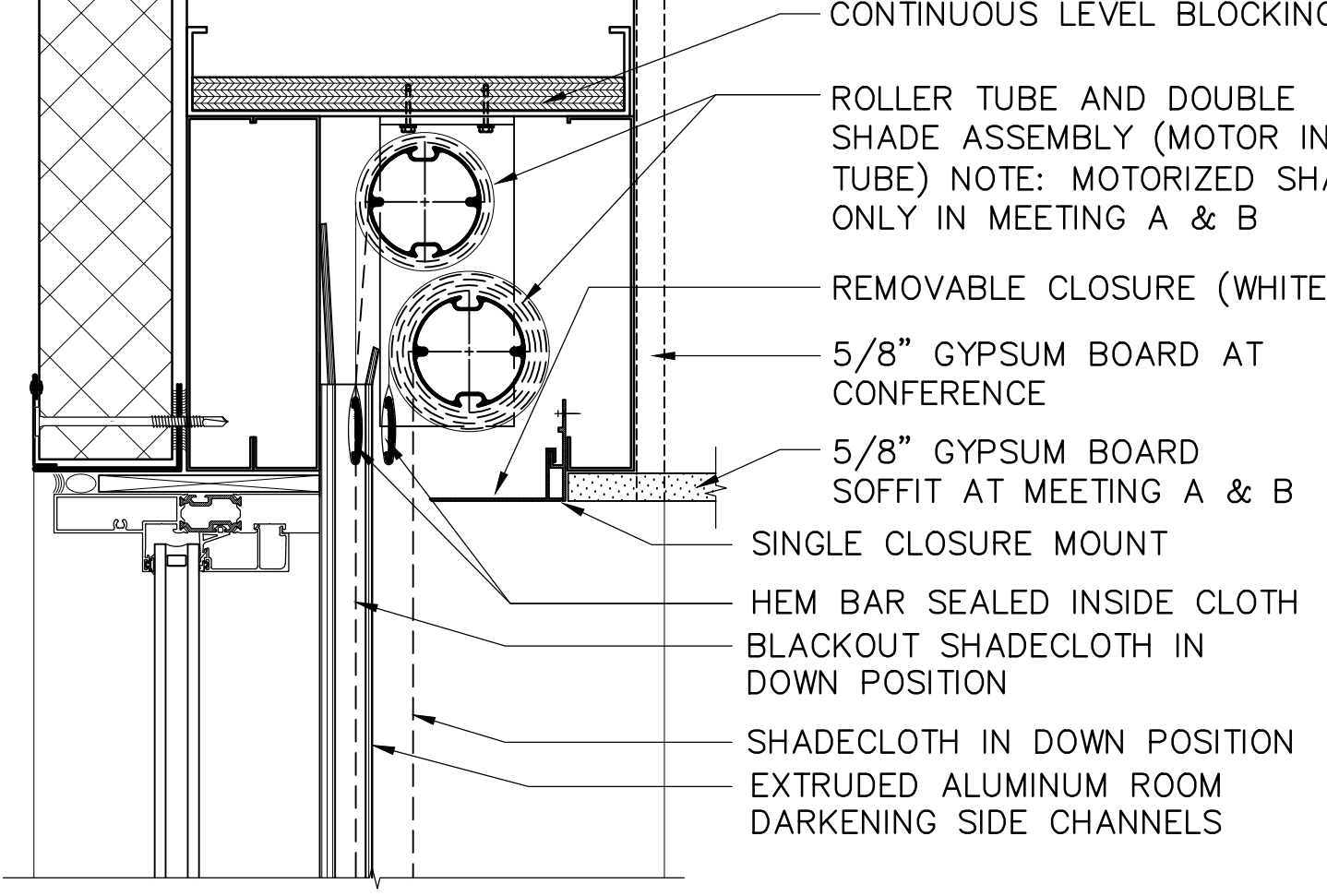
7 RECESSED PROJECTION SCREEN
A6.3 3" = 1'-0"



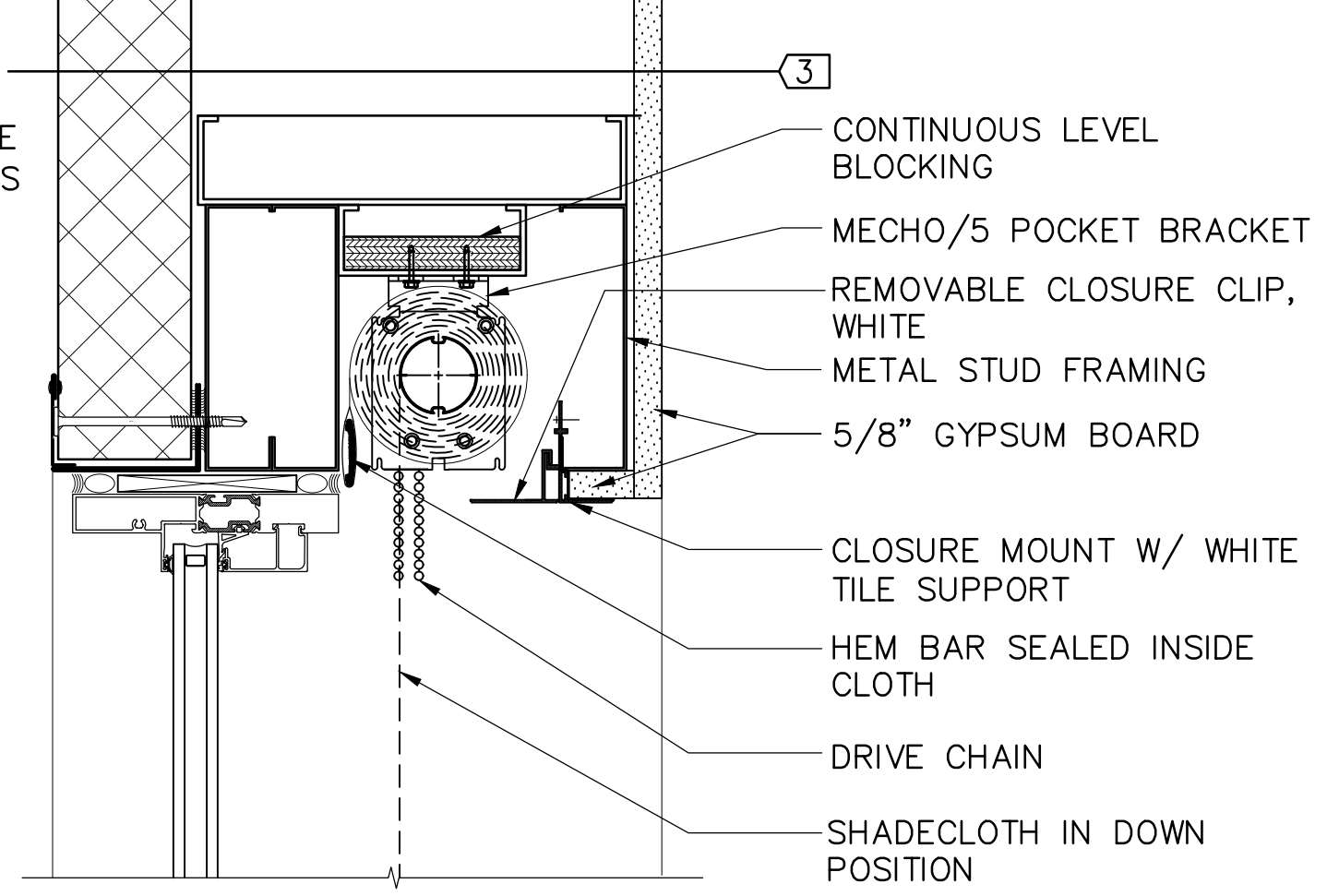
10 FLUSH SOFFIT DETAIL
A6.3 3" = 1'-0"



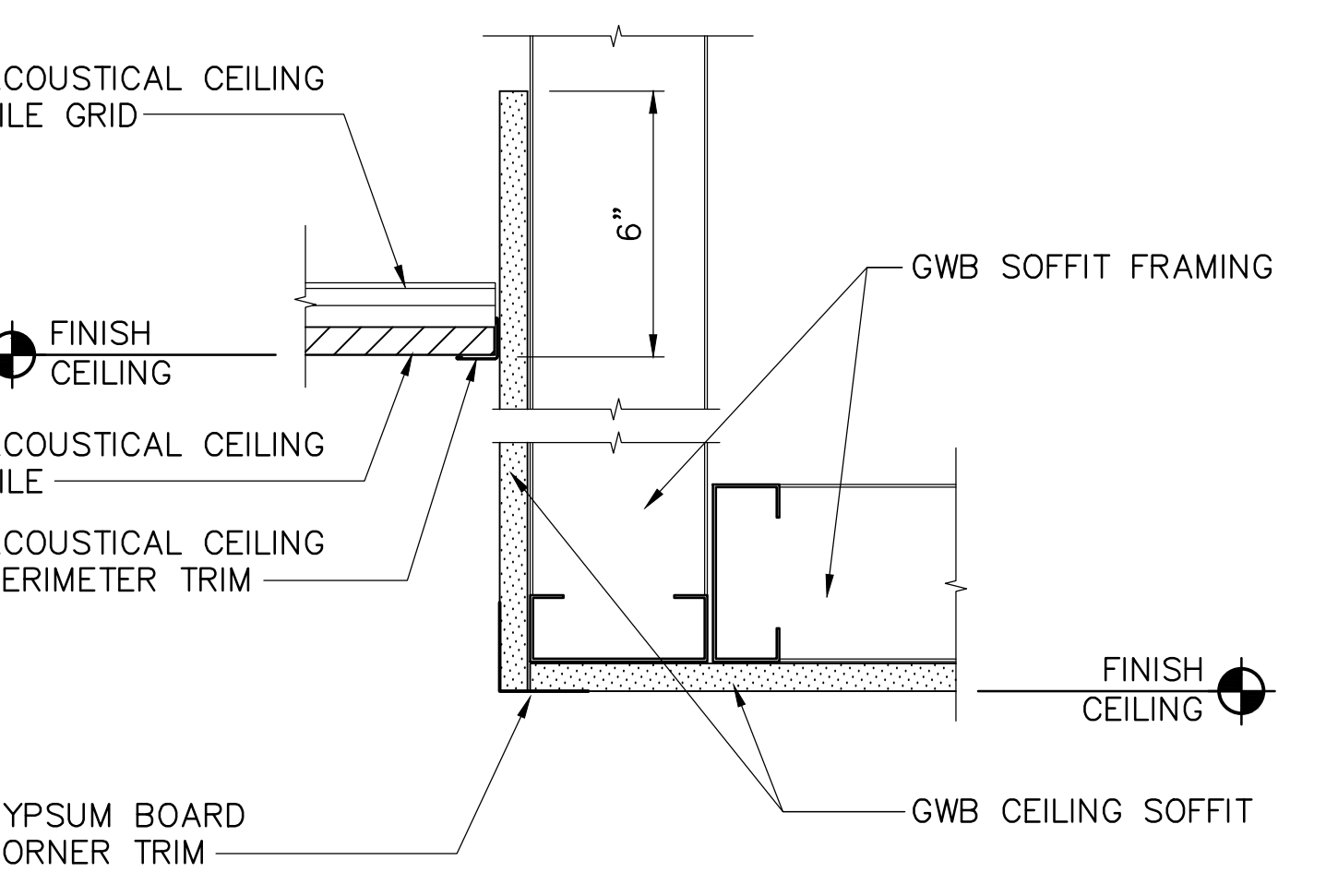
2 WINDOW JAMB DETAIL
A6.3 3" = 1'-0"



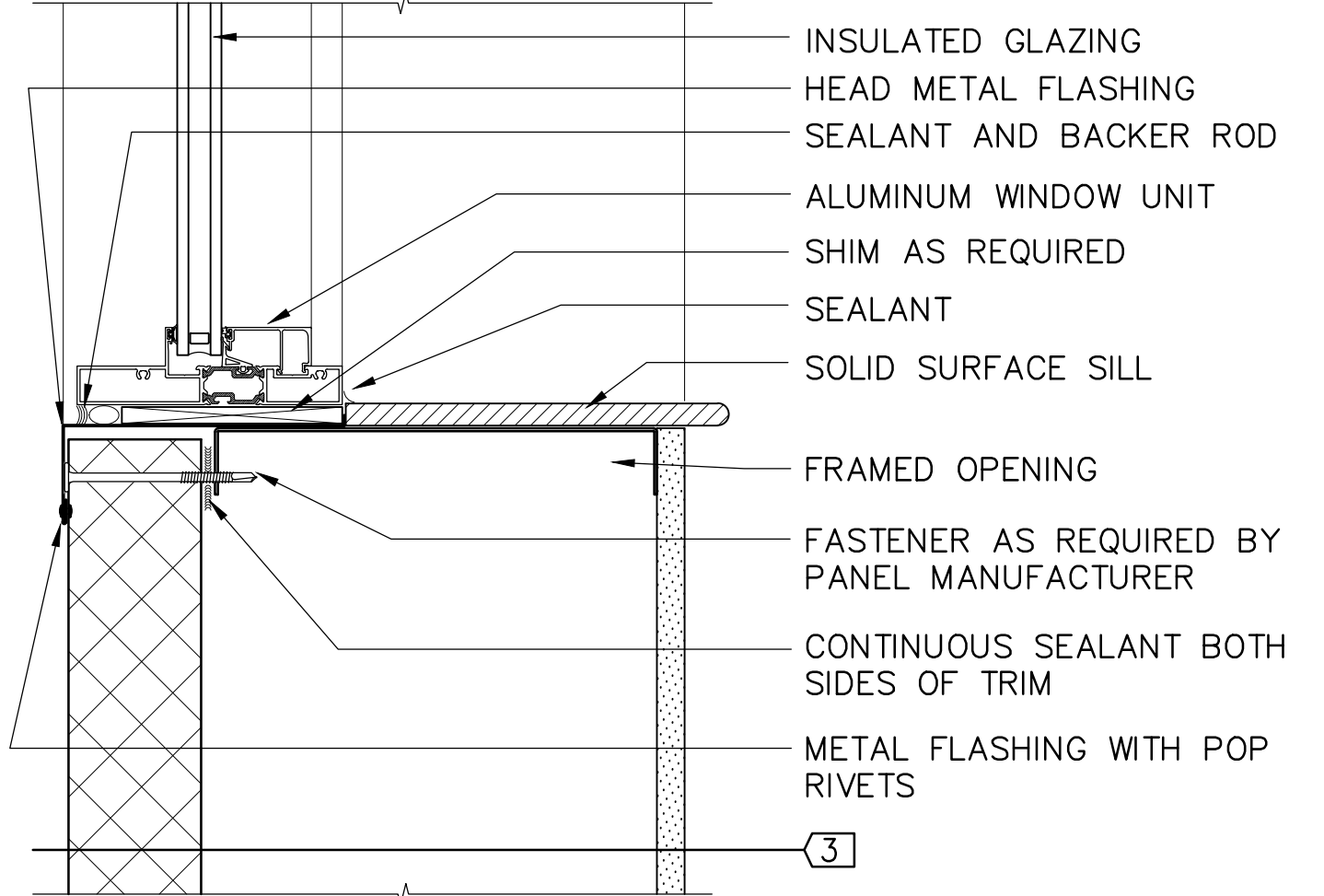
5 ROLLER SHADES @ WINDOW TYPE 'A' & CONF.
A6.3 3" = 1'-0" REFER TO 1/A6.3 FOR EXTERIOR PANEL/WINDOW UNIT NOTES



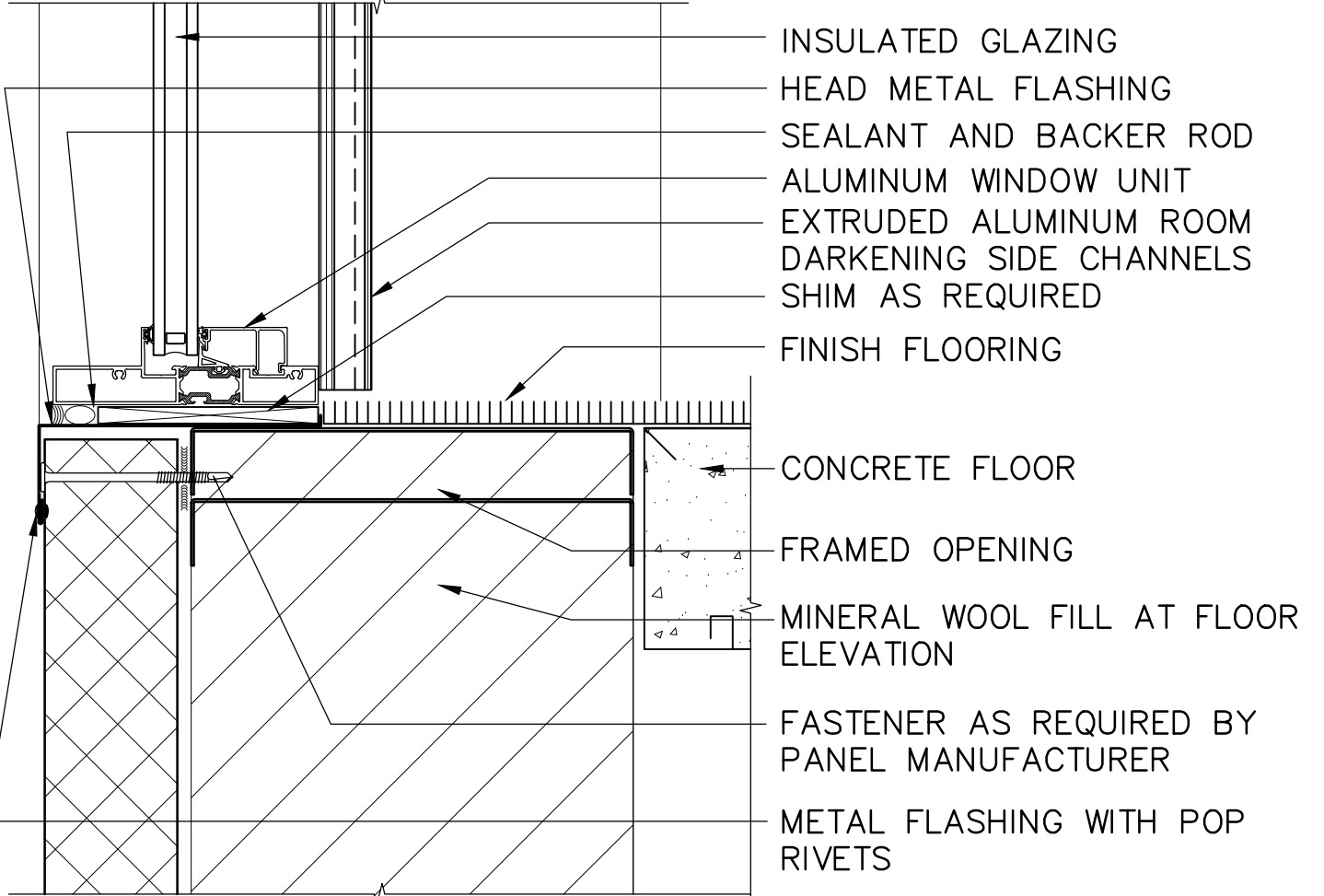
8 MANUAL ROLLER SHADES @ OFFICES
A6.3 3" = 1'-0" REFER TO 1/A6.3 FOR EXTERIOR PANEL/WINDOW UNIT NOTES



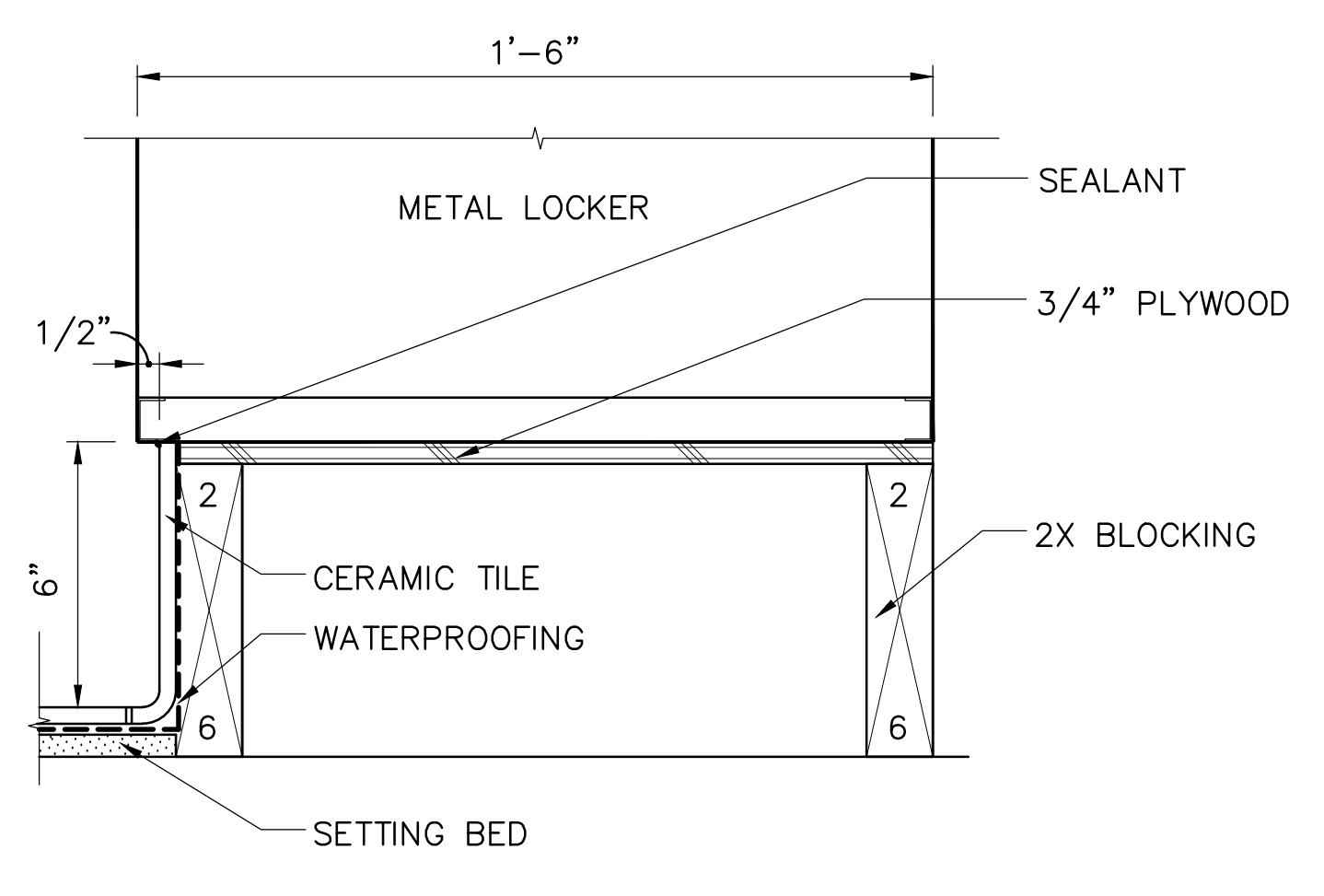
11 RECESSED SOFFIT DETAIL
A6.3 3" = 1'-0"



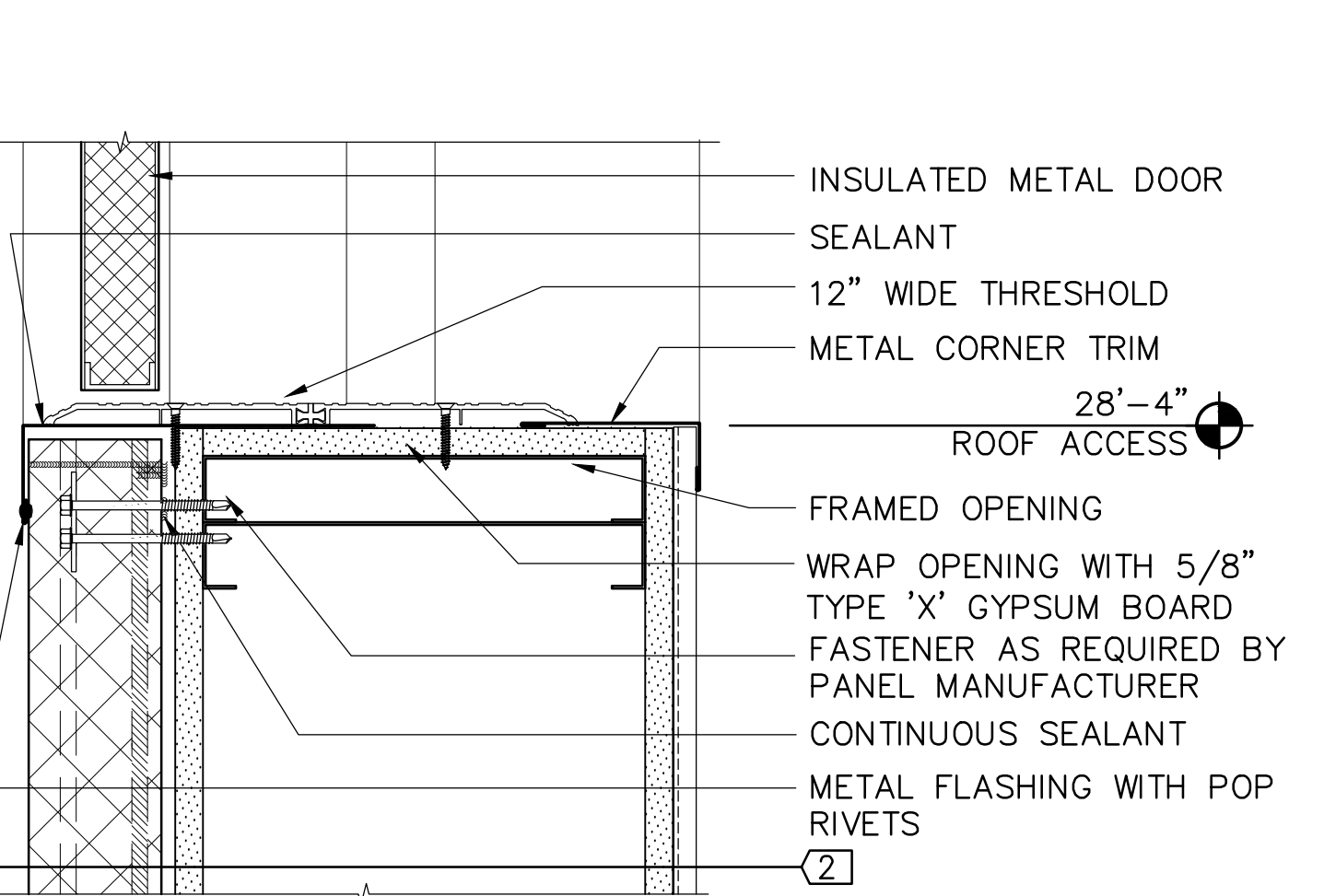
3 WINDOW SILL DETAIL
A6.3 3" = 1'-0"



6 WINDOW SILL DETAIL
A6.3 3" = 1'-0"



9 LOCKER BASE
A6.3 3" = 1'-0"



12 MEZZANINE ROOF ACCESS DOOR SILL
A6.3 3" = 1'-0"

REV	DATE	DESCRIPTION	BY

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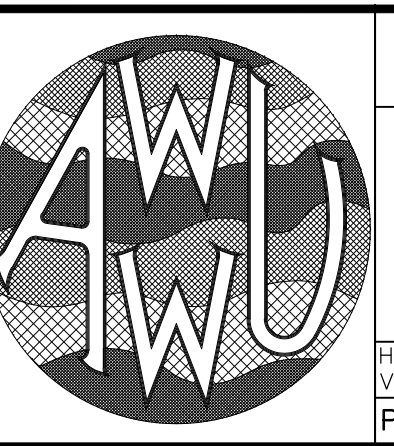
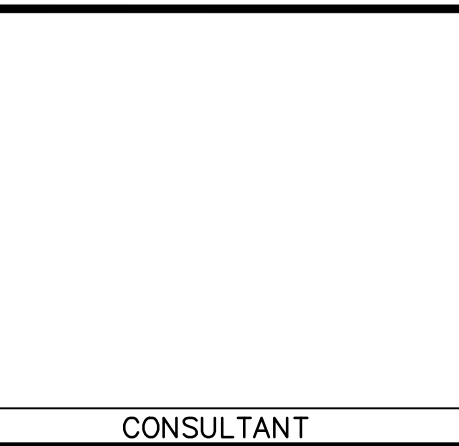
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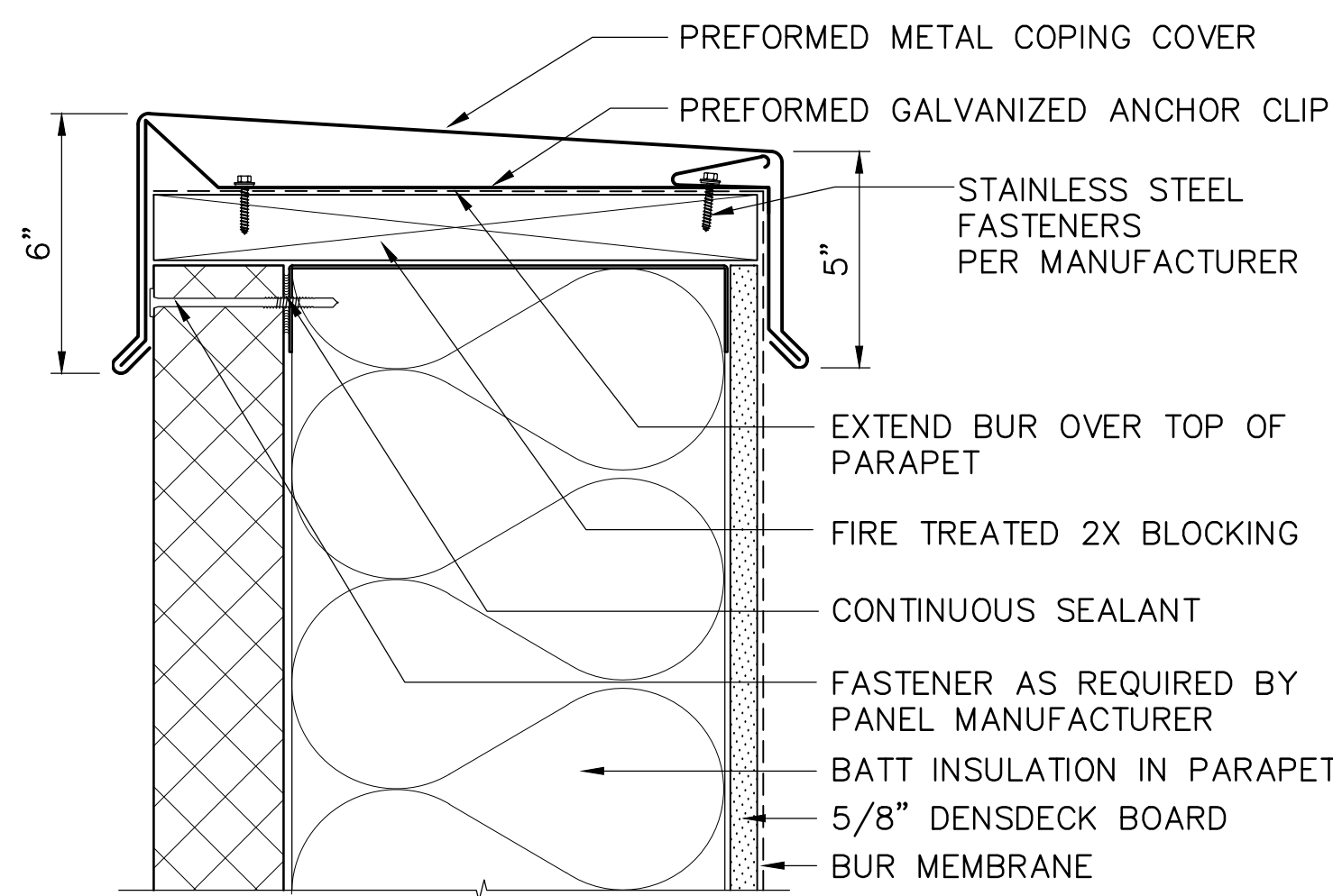


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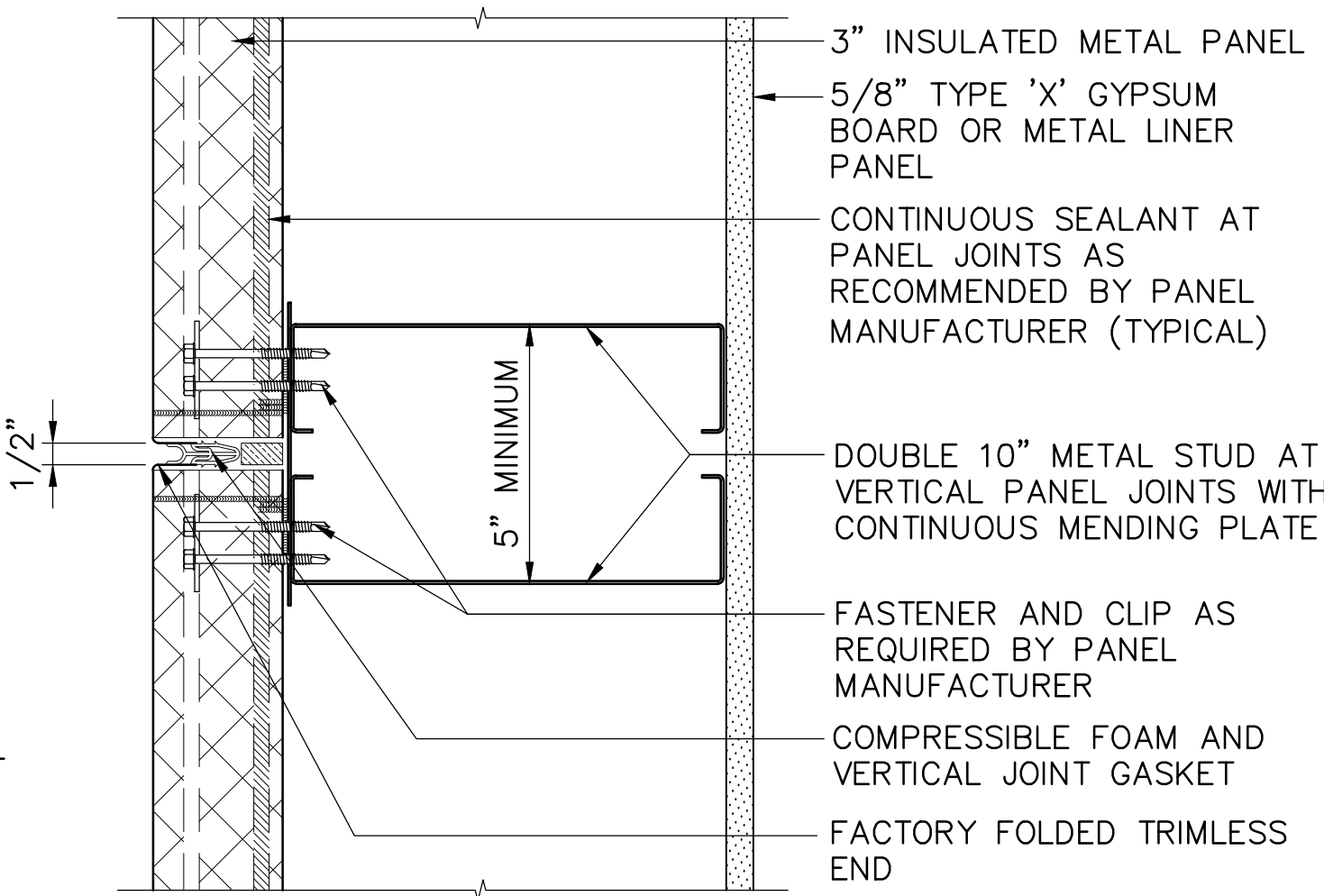
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

WINDOW DETAILS, DETAILS

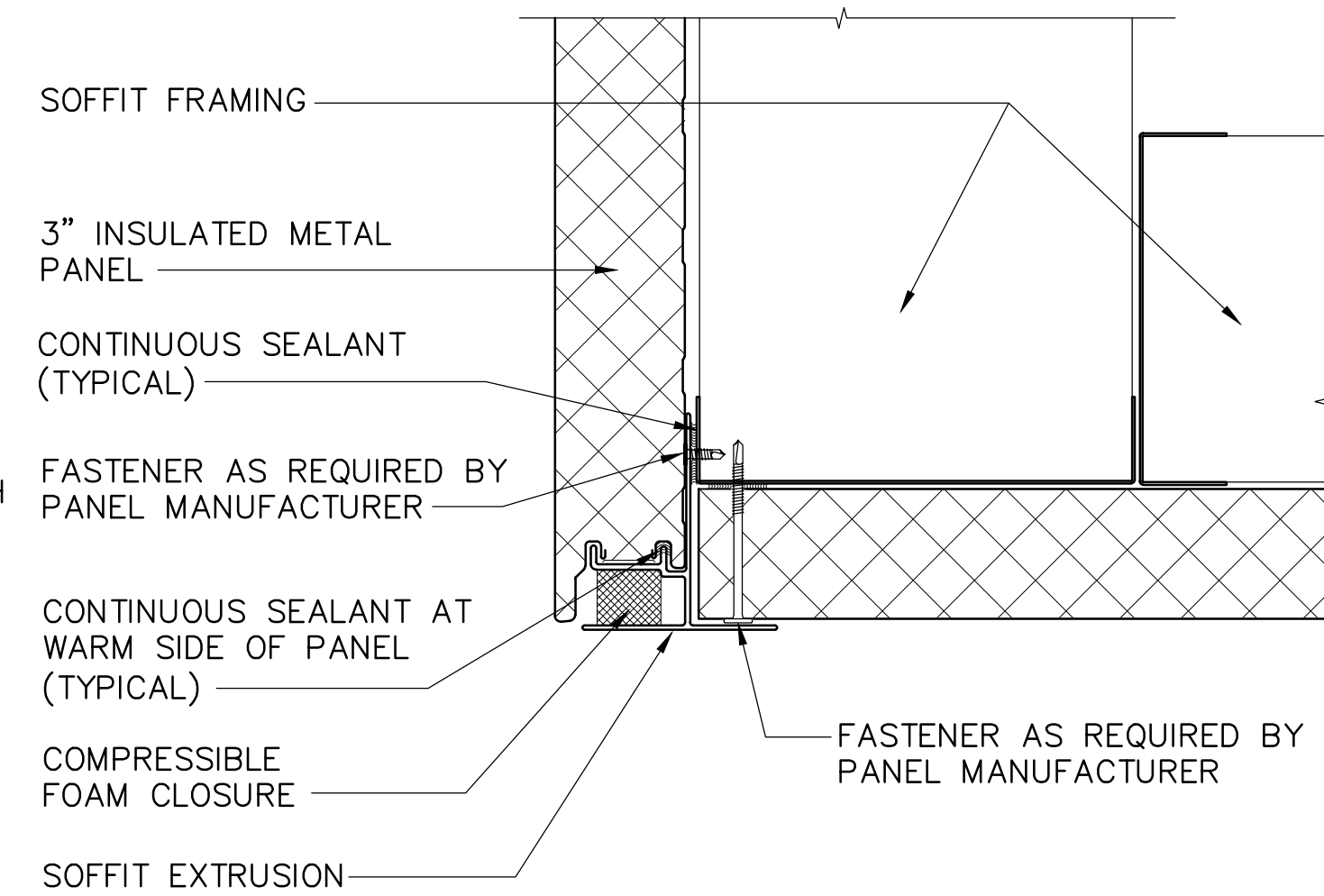
HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775



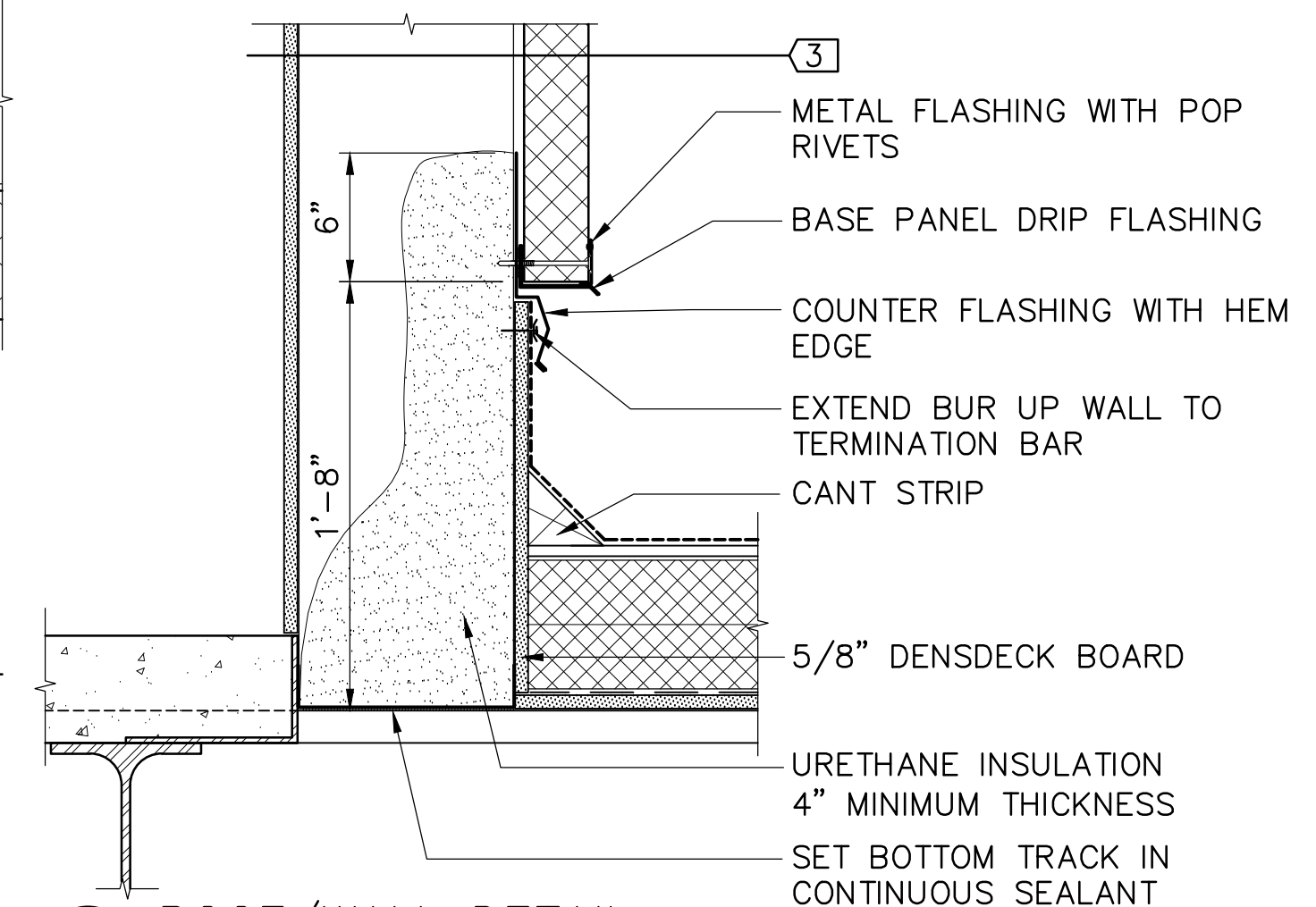
1 PARAPET DETAIL
A6.4 3" = 1'-0"



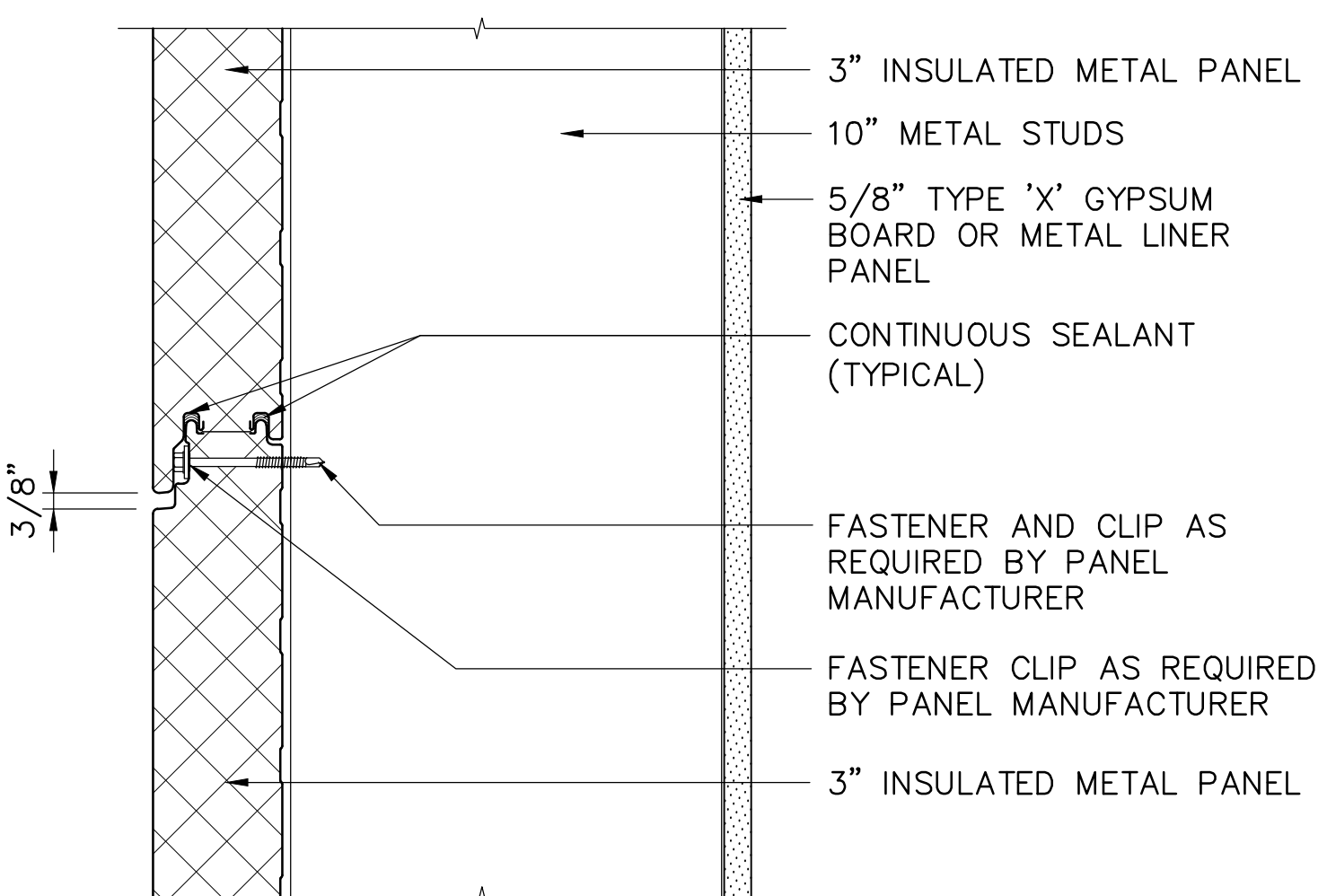
4 VERTICAL PANEL JOINT
A6.4 3" = 1'-0"



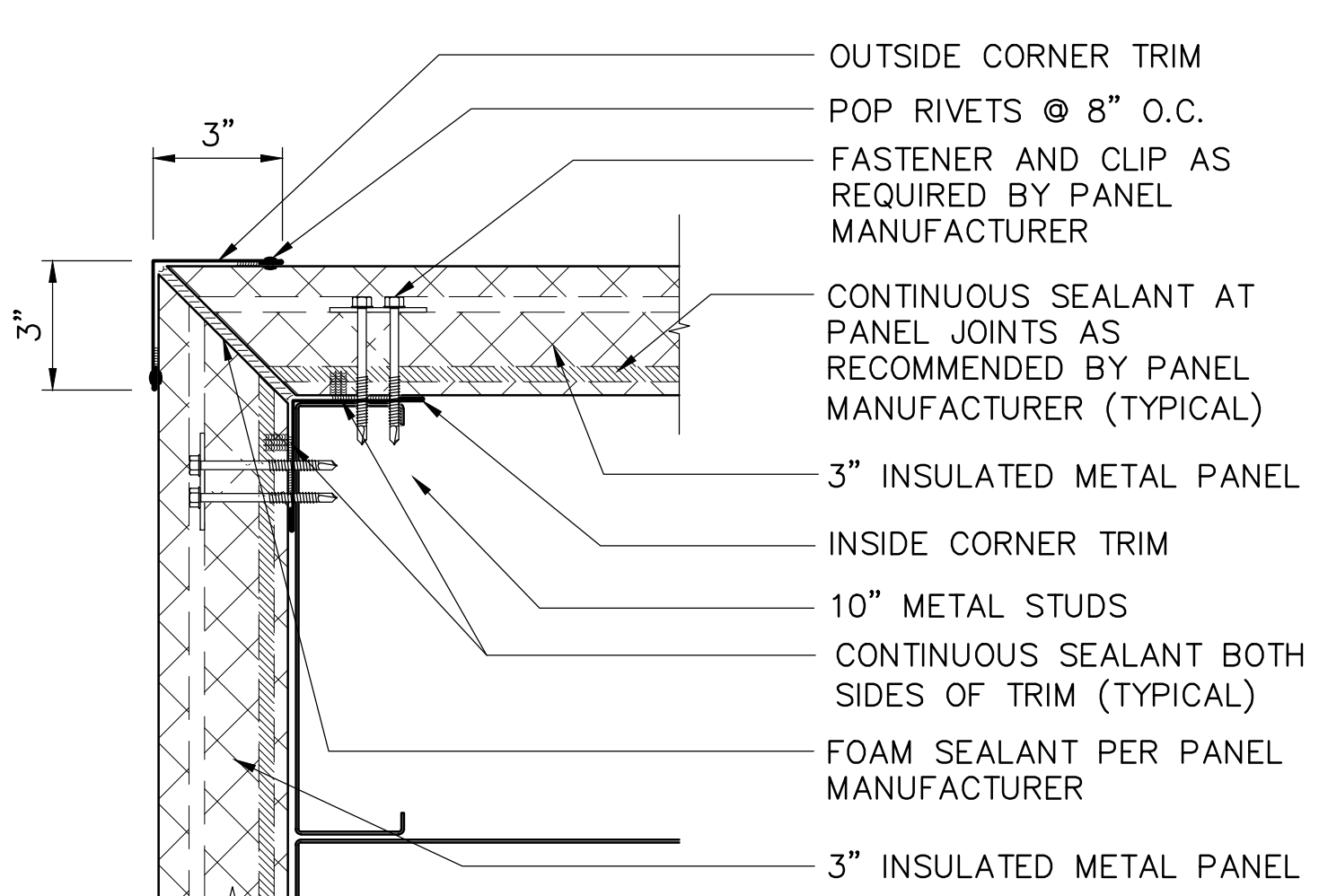
7 OUTSIDE SOFFIT CORNER PANEL JOINT
A6.4 3" = 1'-0"



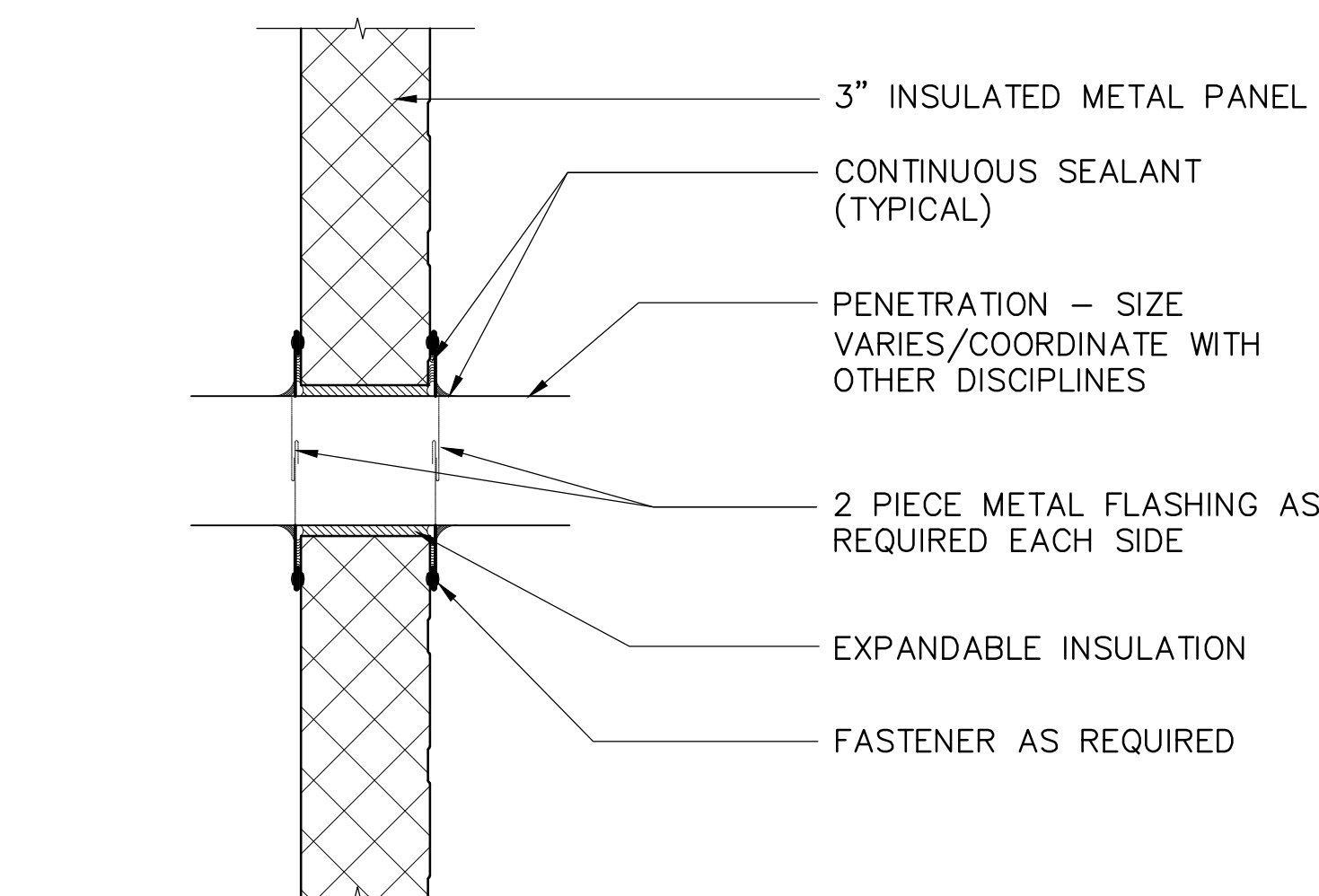
10 ROOF/WALL DETAIL
A6.4 1-1/2" = 1'-0"



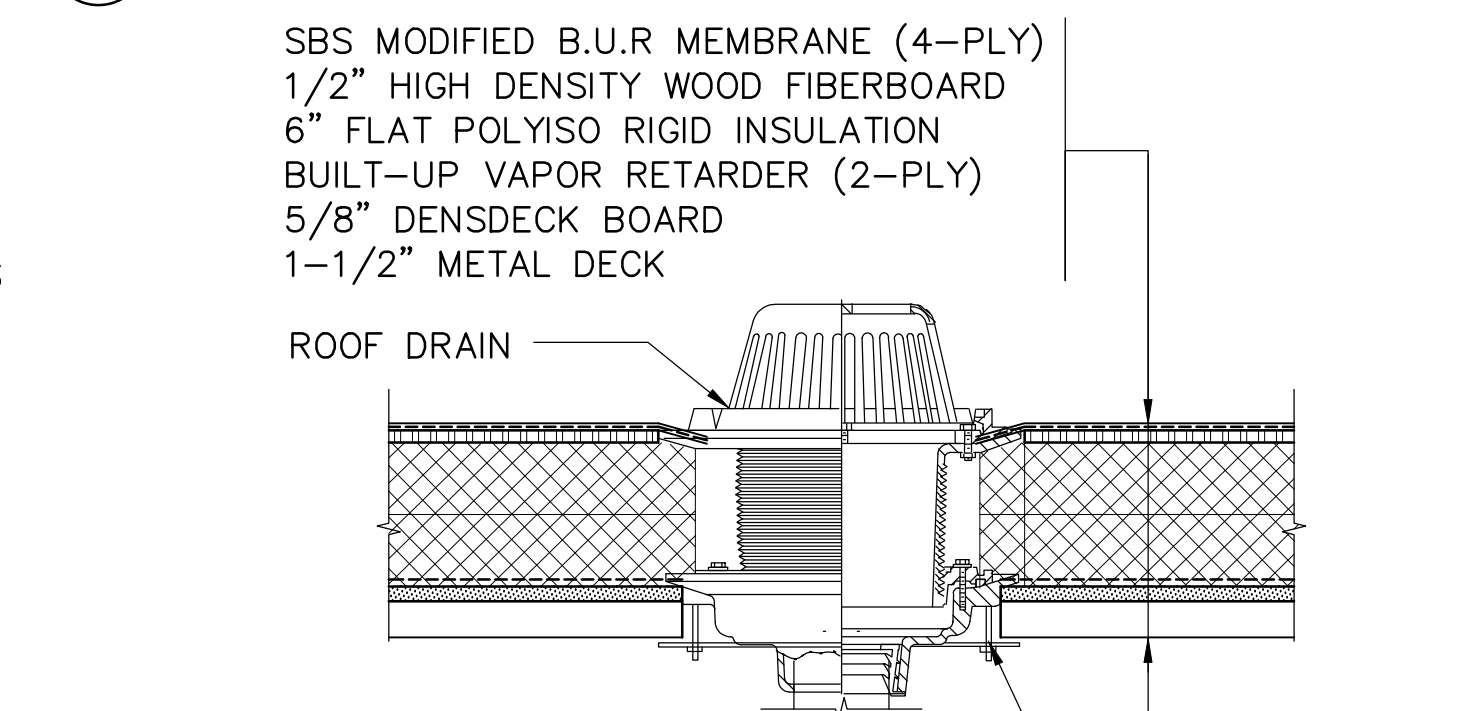
2 HORIZONTAL PANEL JOINT
A6.4 3" = 1'-0"



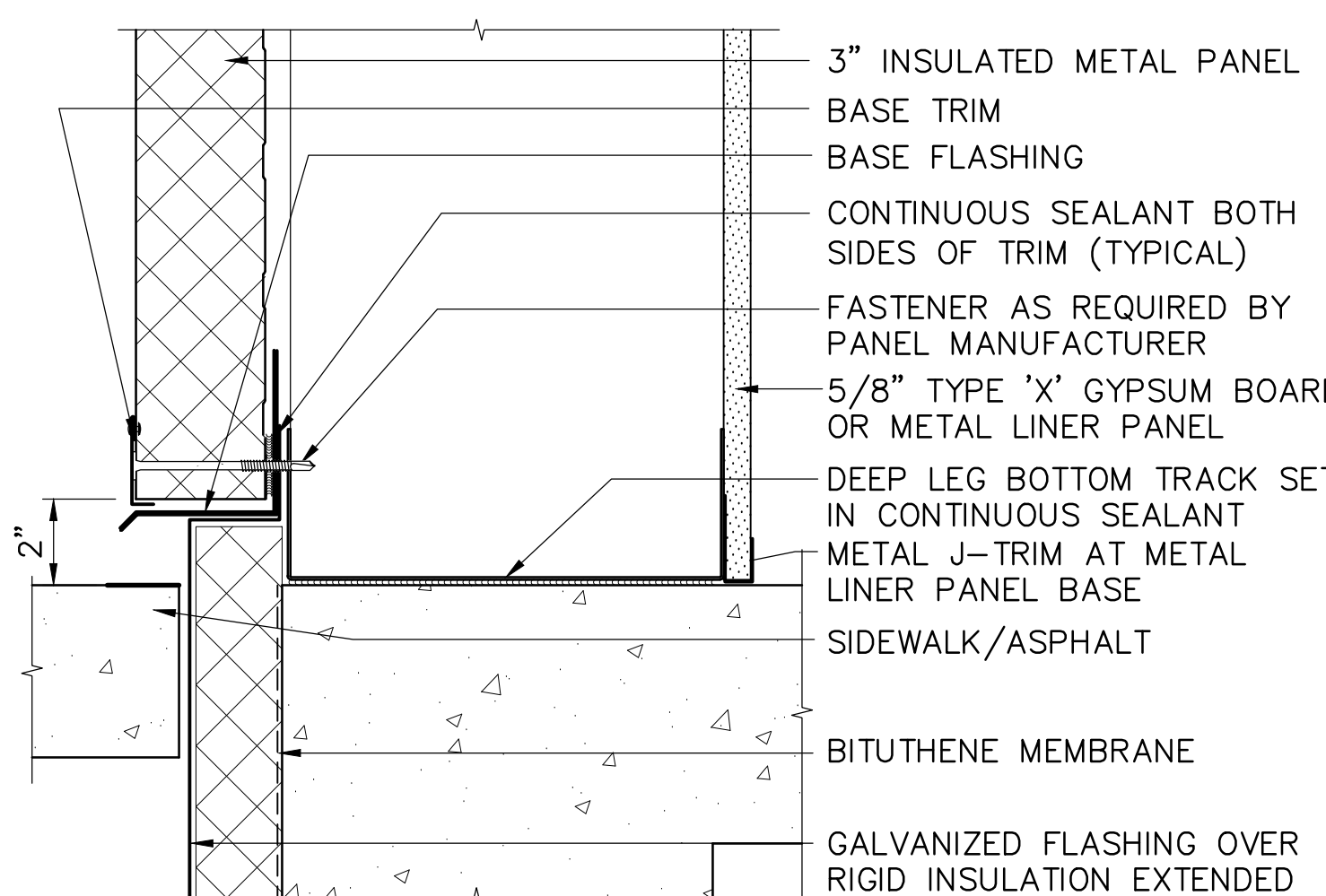
5 OUTSIDE CORNER PANEL JOINT
A6.4 3" = 1'-0"



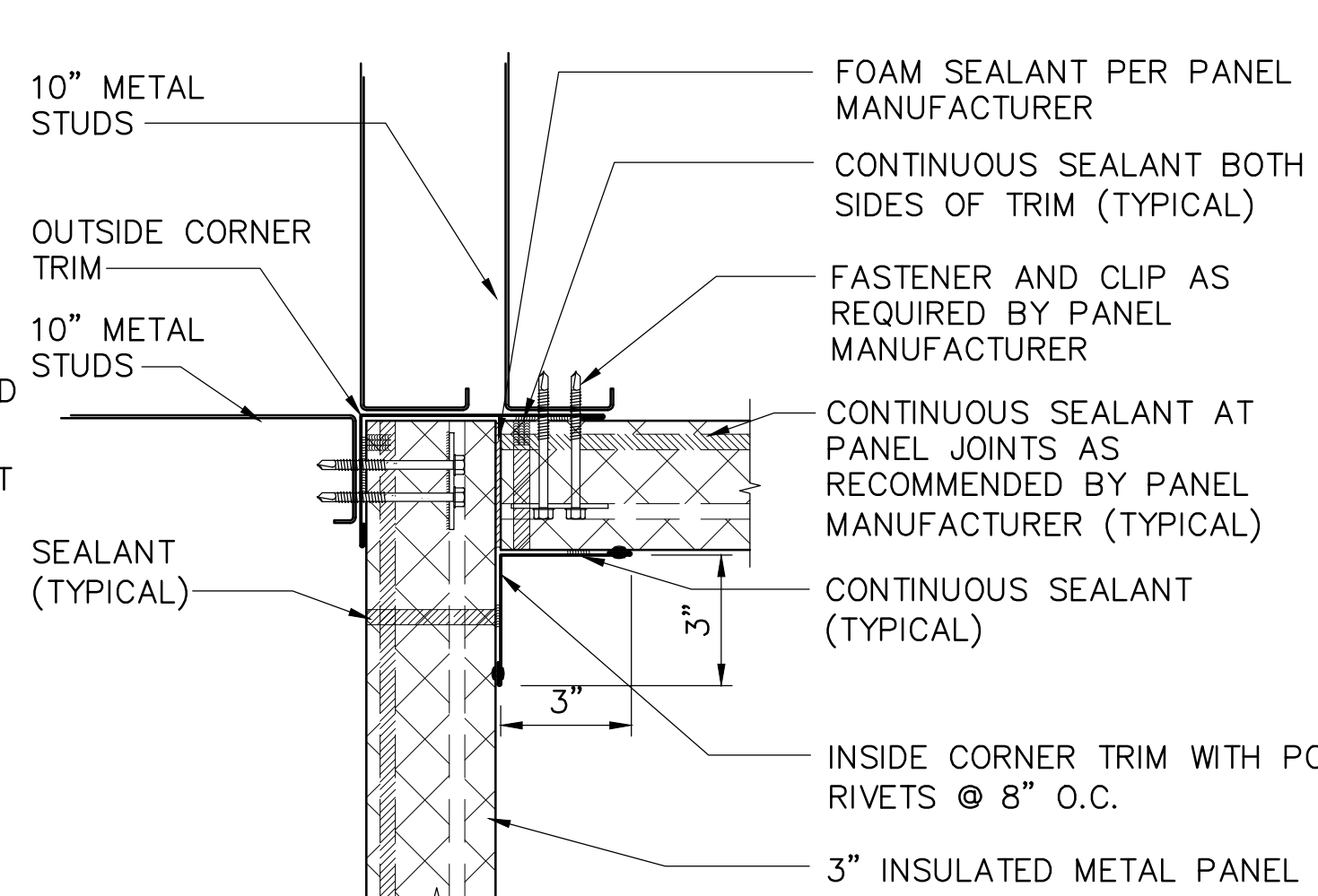
8 TYPICAL PENETRATION DETAIL
A6.4 3" = 1'-0"



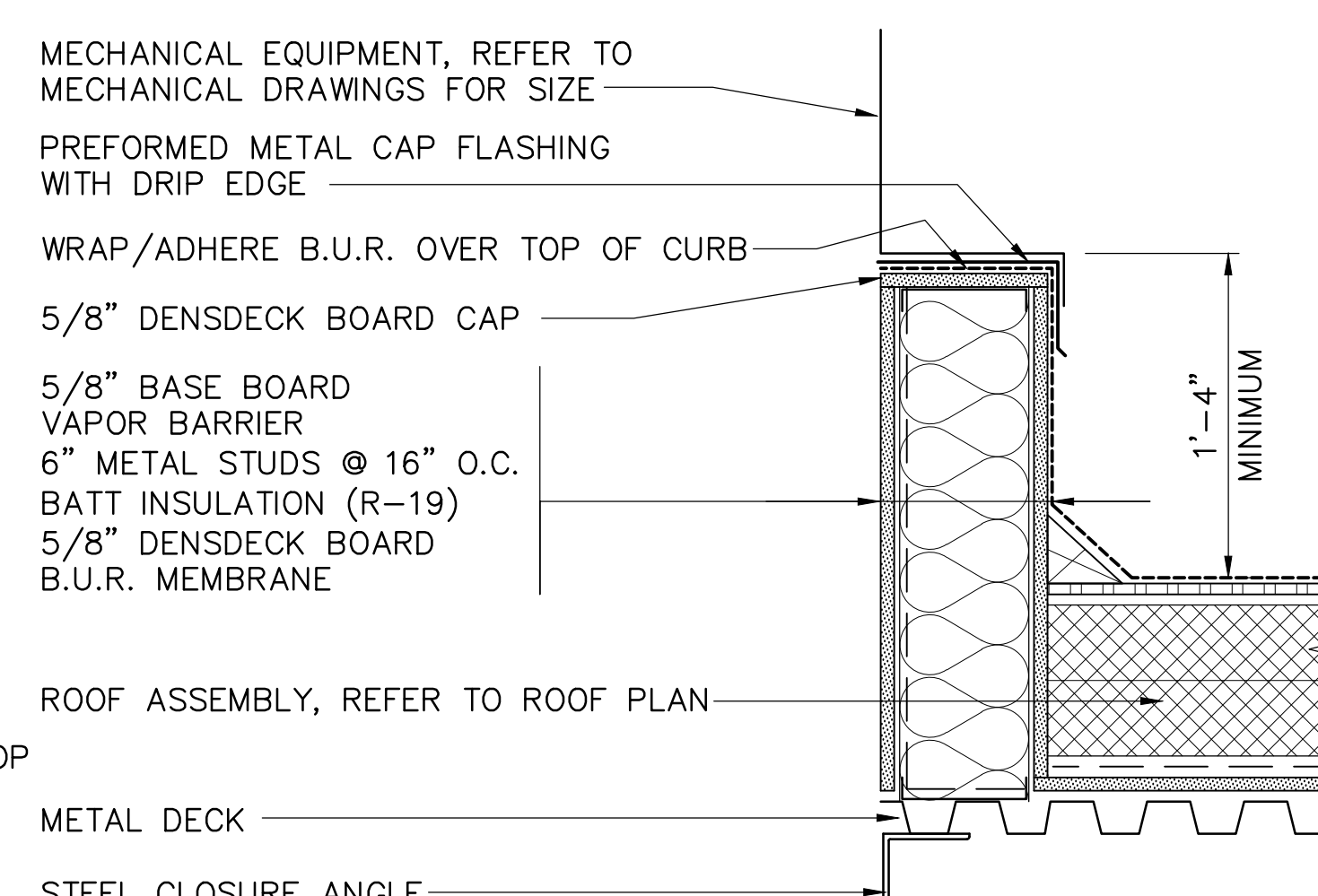
11 ROOF DRAIN DETAIL
A6.4 1-1/2" = 1'-0"



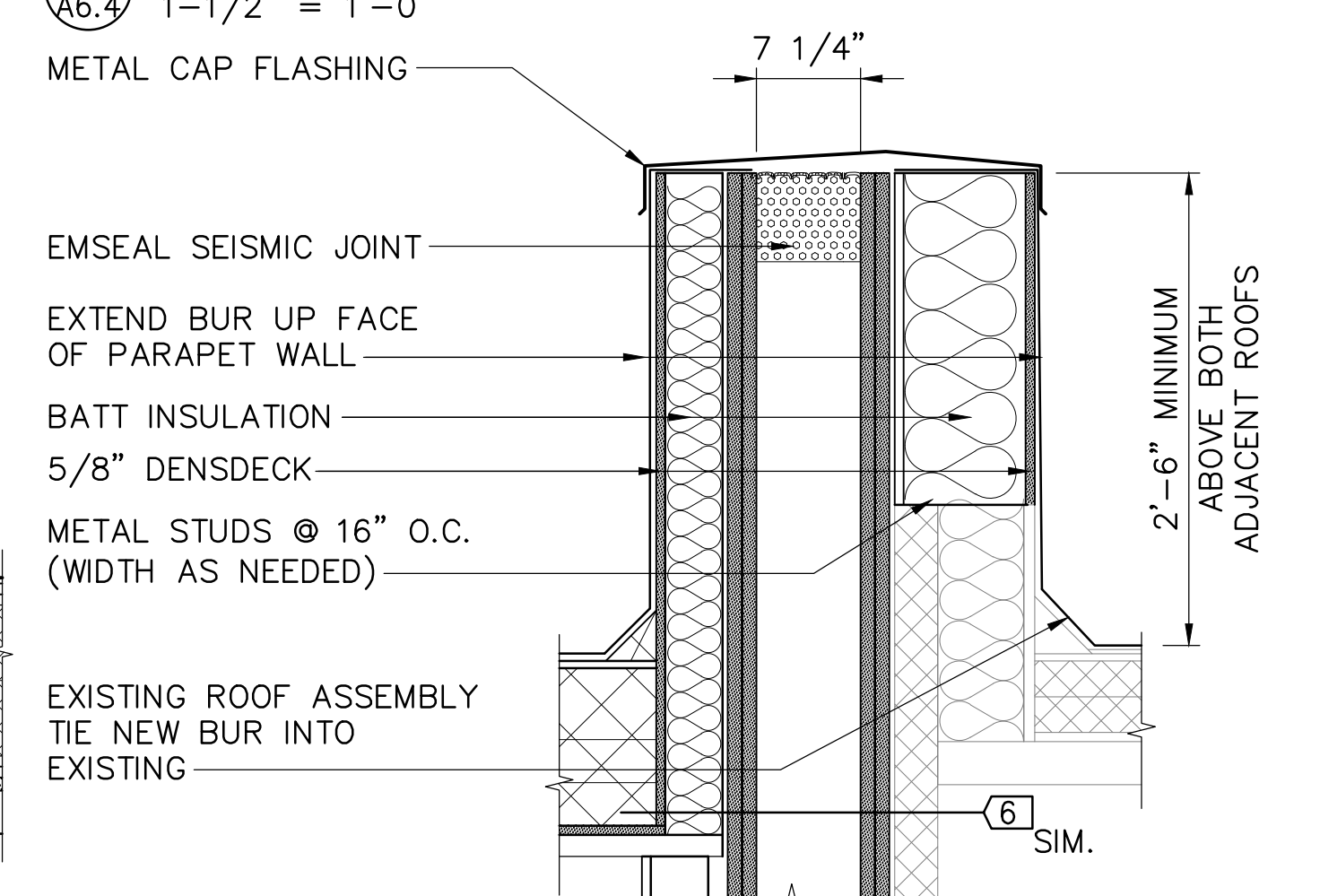
3 BASE PANEL JOINT
A6.4 3" = 1'-0"



6 INSIDE CORNER PANEL JOINT
A6.4 3" = 1'-0"



9 ROOF TOP CURB DETAIL
A6.4 1-1/2" = 1'-0"



12 2-HOUR ROOF PARAPET
A6.4 1" = 1'-0"

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

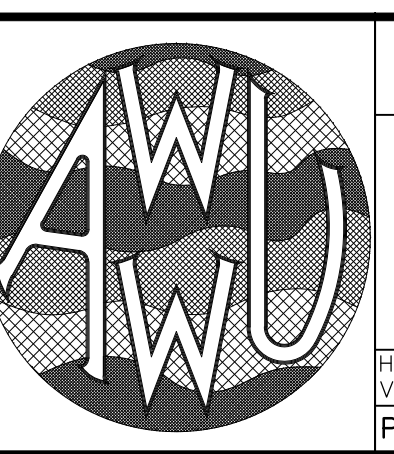
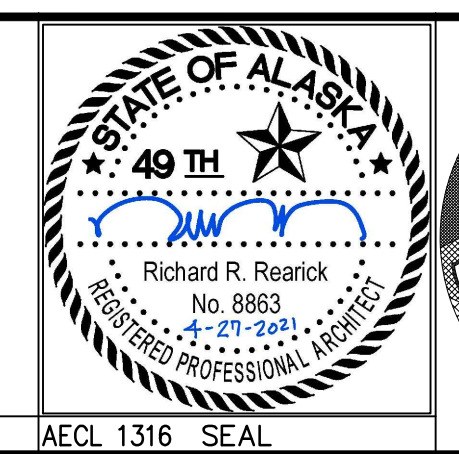
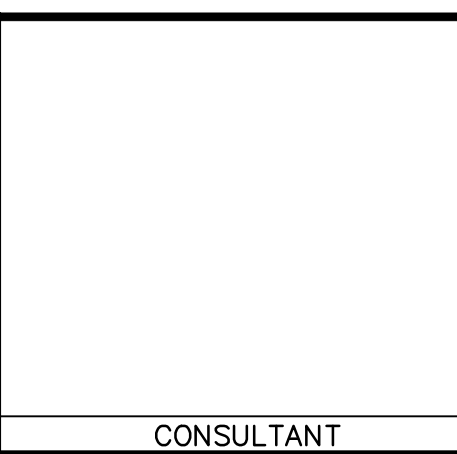
1. DATA PROVIDED BY: _____
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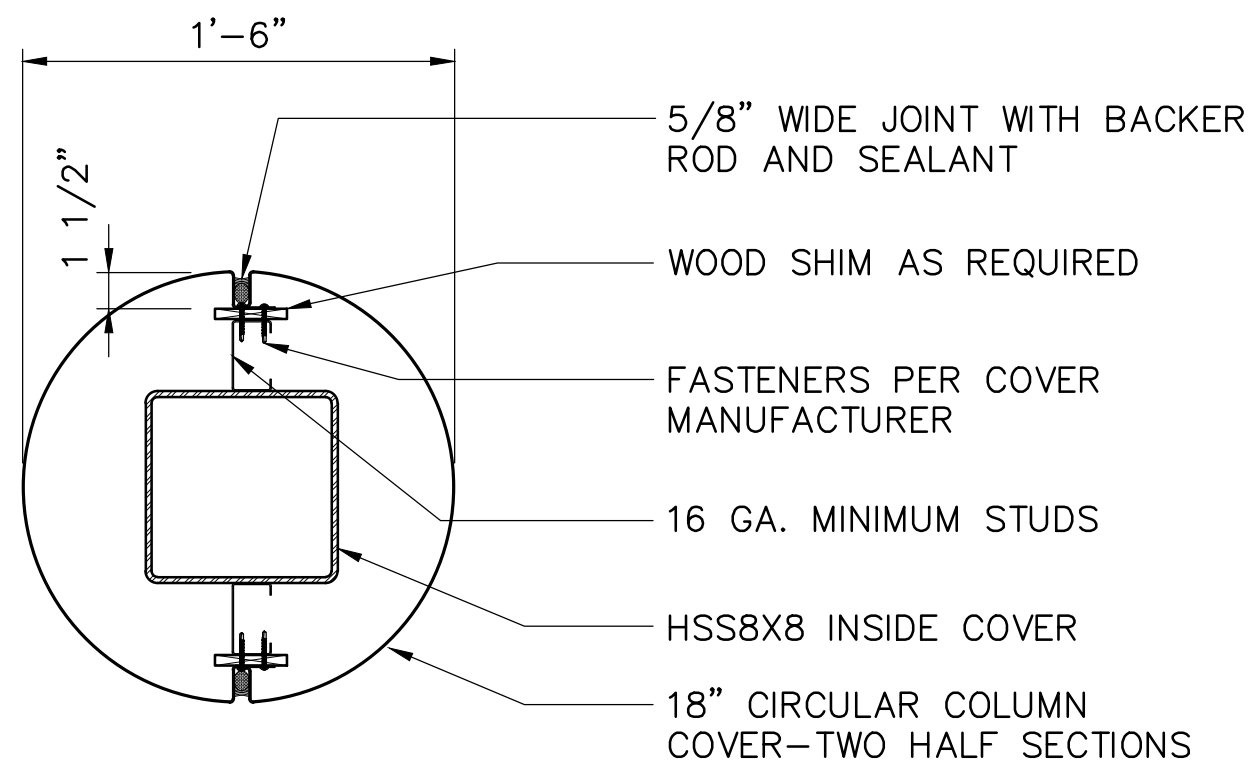
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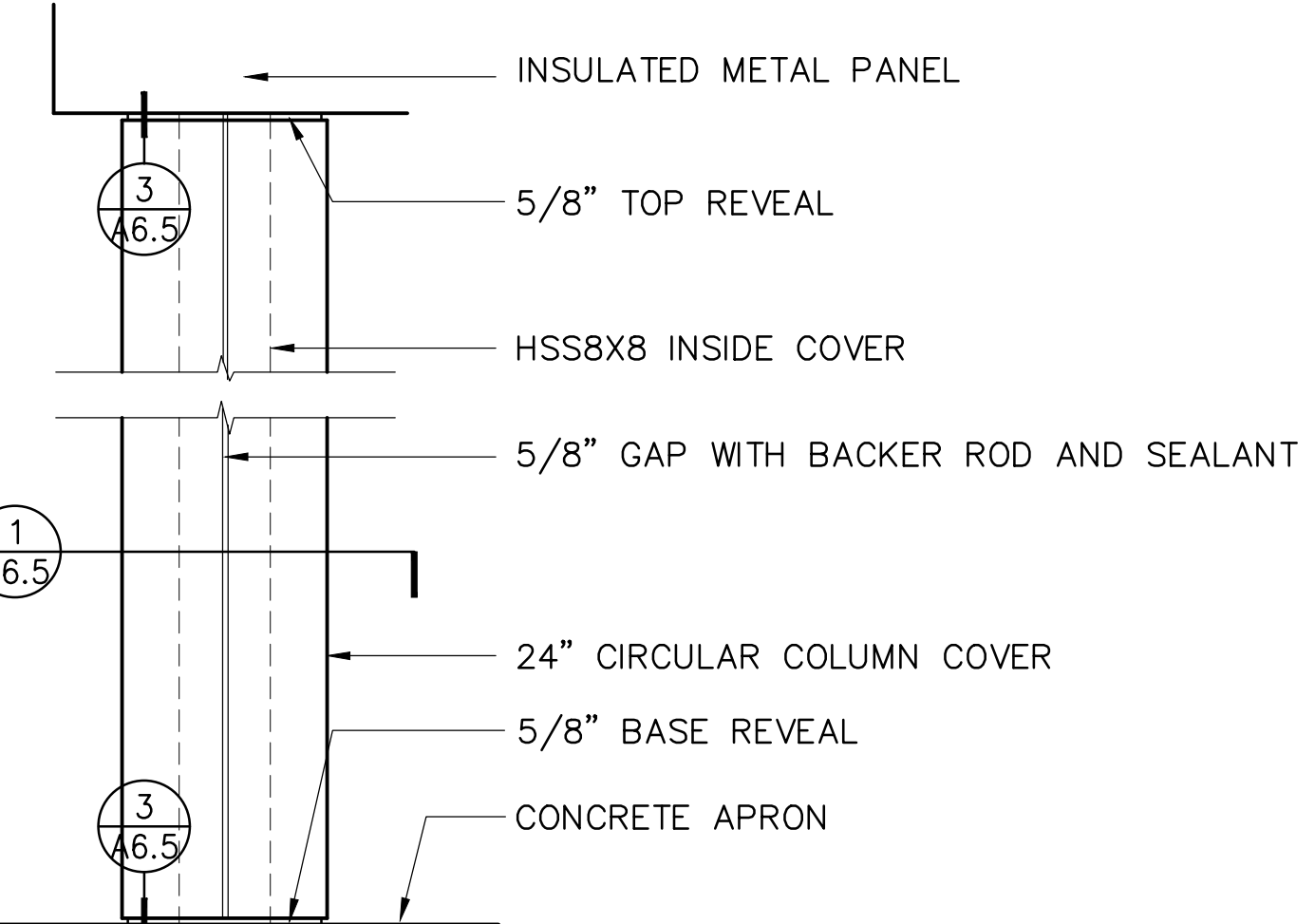


MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		DWG
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT		A6.4
PANEL DETAILS, DETAILS		
HORIZ SCALE: N/A VERT SCALE: N/A	DATE: APRIL 2021 GRID: SW 2431	SHEET 129 of 288
PROJ. ID.: WW.H7775	AECL 1316 SEAL	



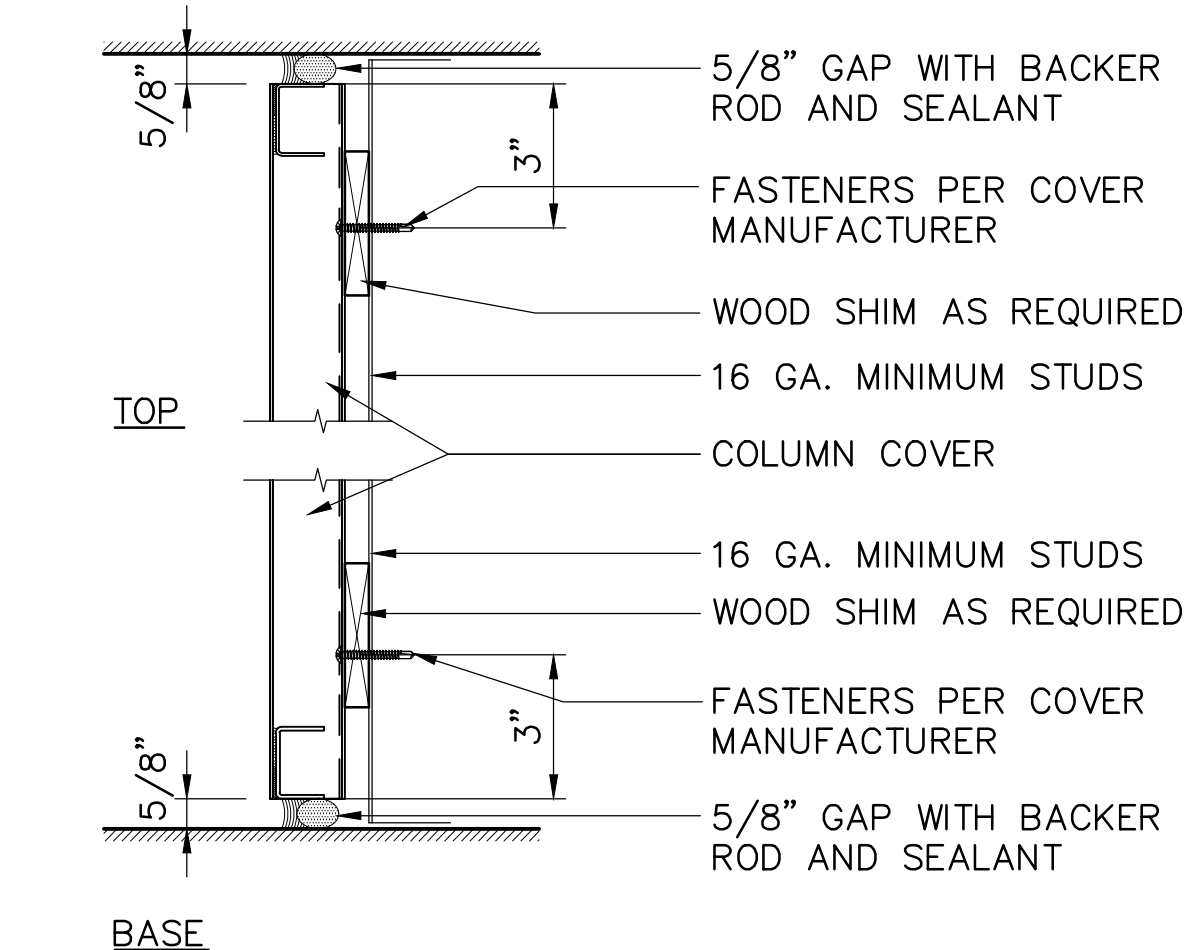
1 COLUMN COVER PLAN

A6.5 1-1/2" = 1'-0"



2 COLUMN COVER ELEVATION

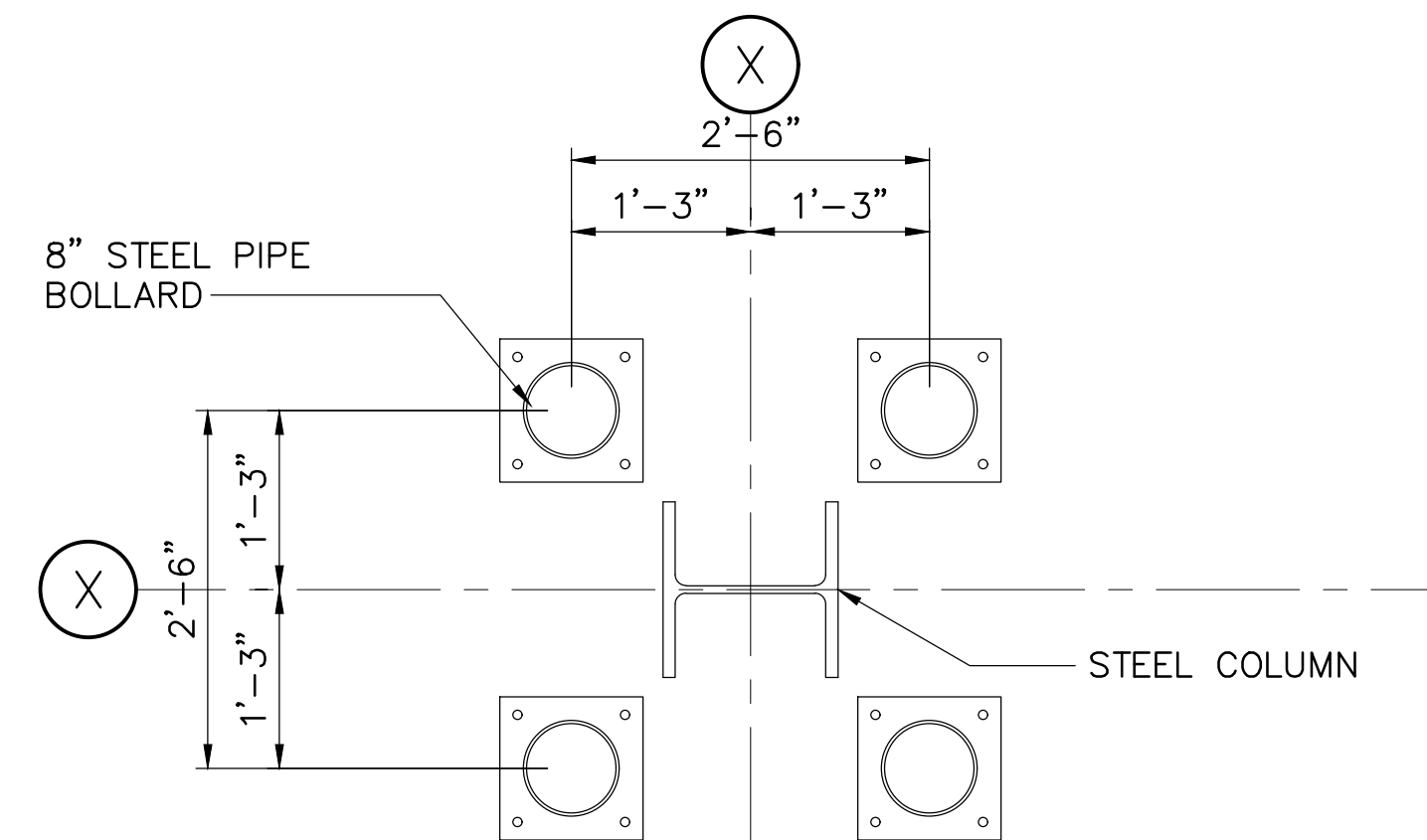
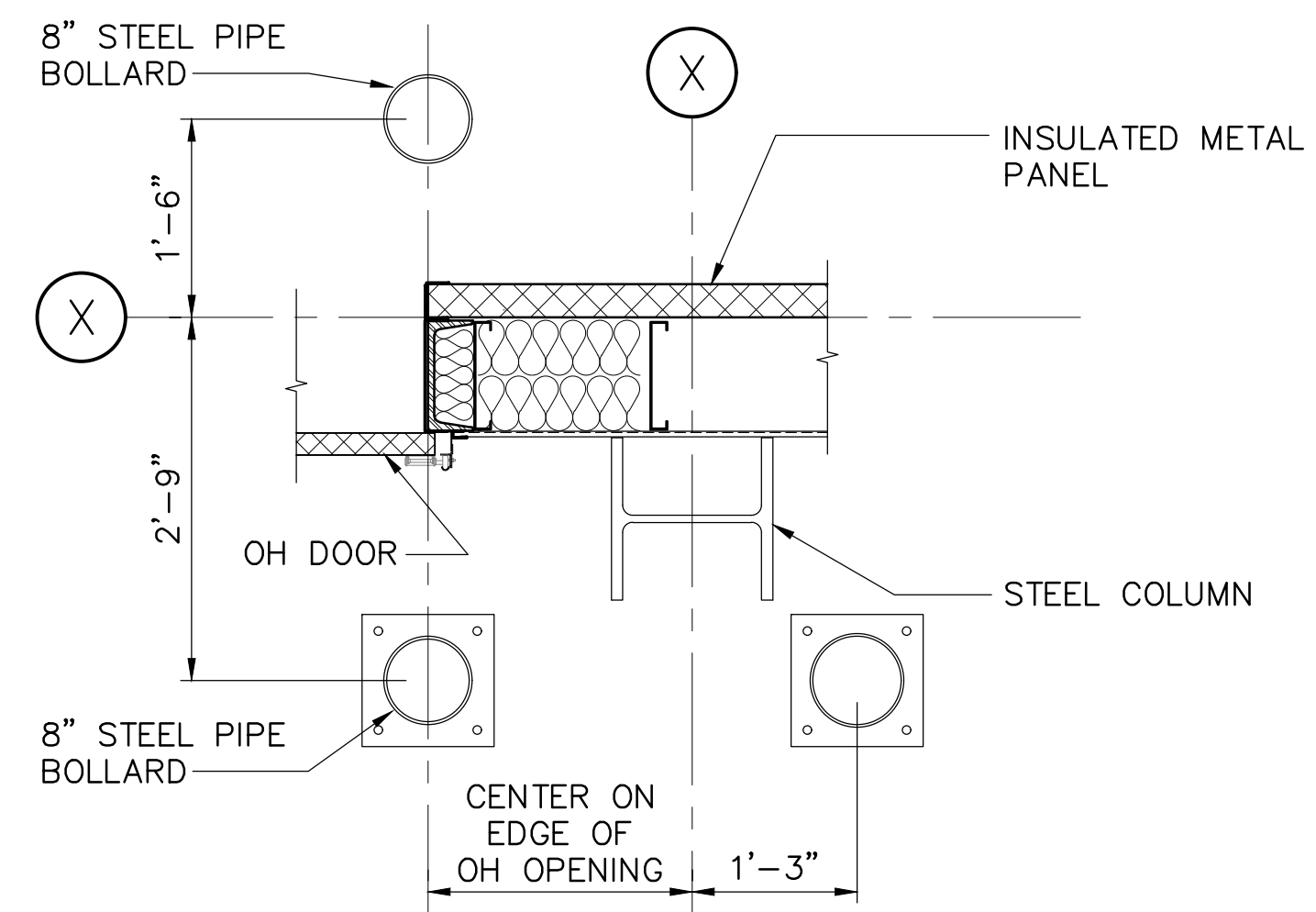
A6.5 3/4" = 1'-0"



3 COLUMN COVER DETAIL

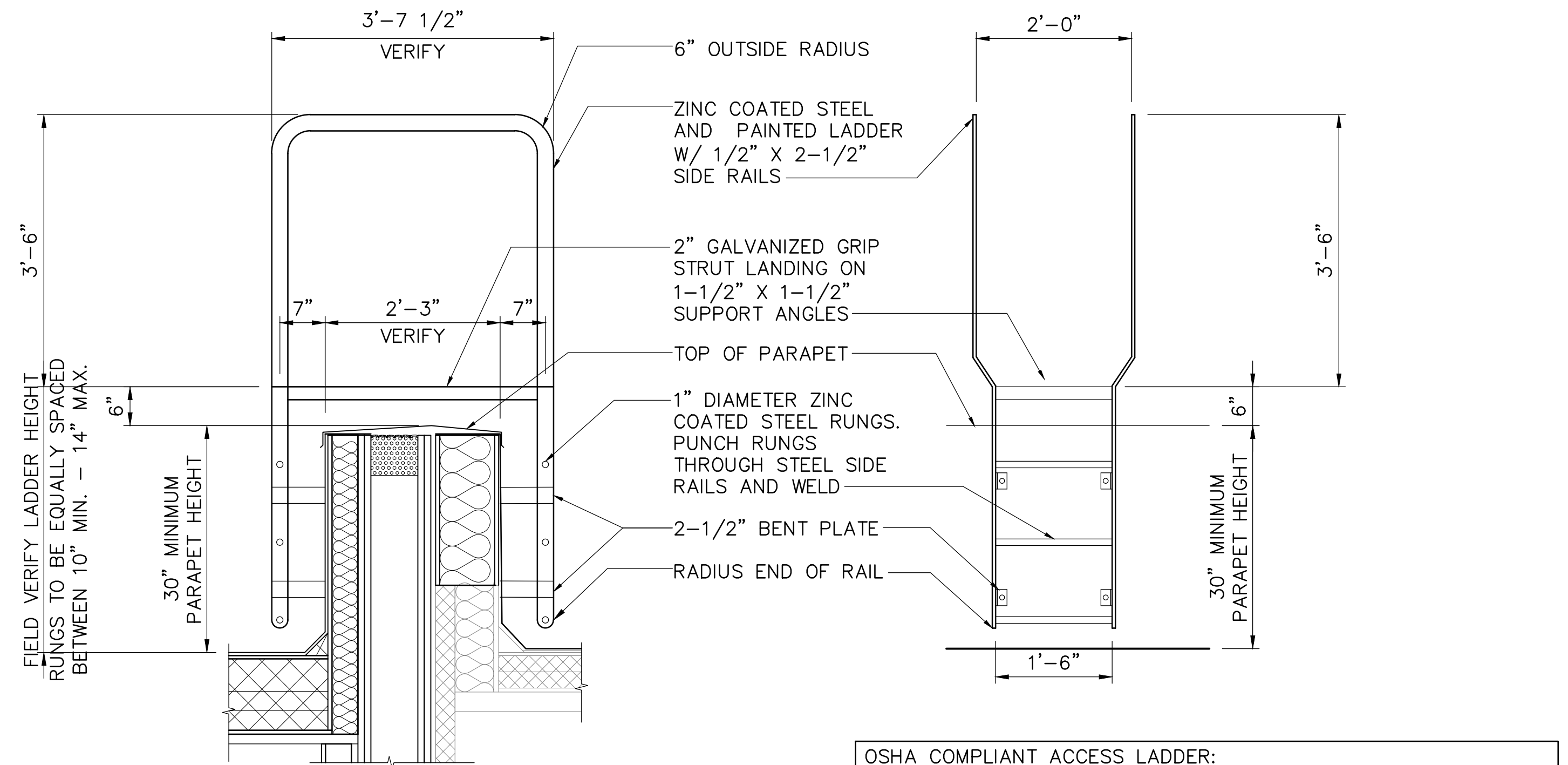
A6.5 3" = 1'-0"

NOTES:
1. REFER TO CIVIL FOR EXTERIOR BOLLARD DETAIL.
2. REFER TO STRUCTURAL FOR INTERIOR BOLLARD DETAIL.



4 TYPICAL BOLLARD LOCATIONS

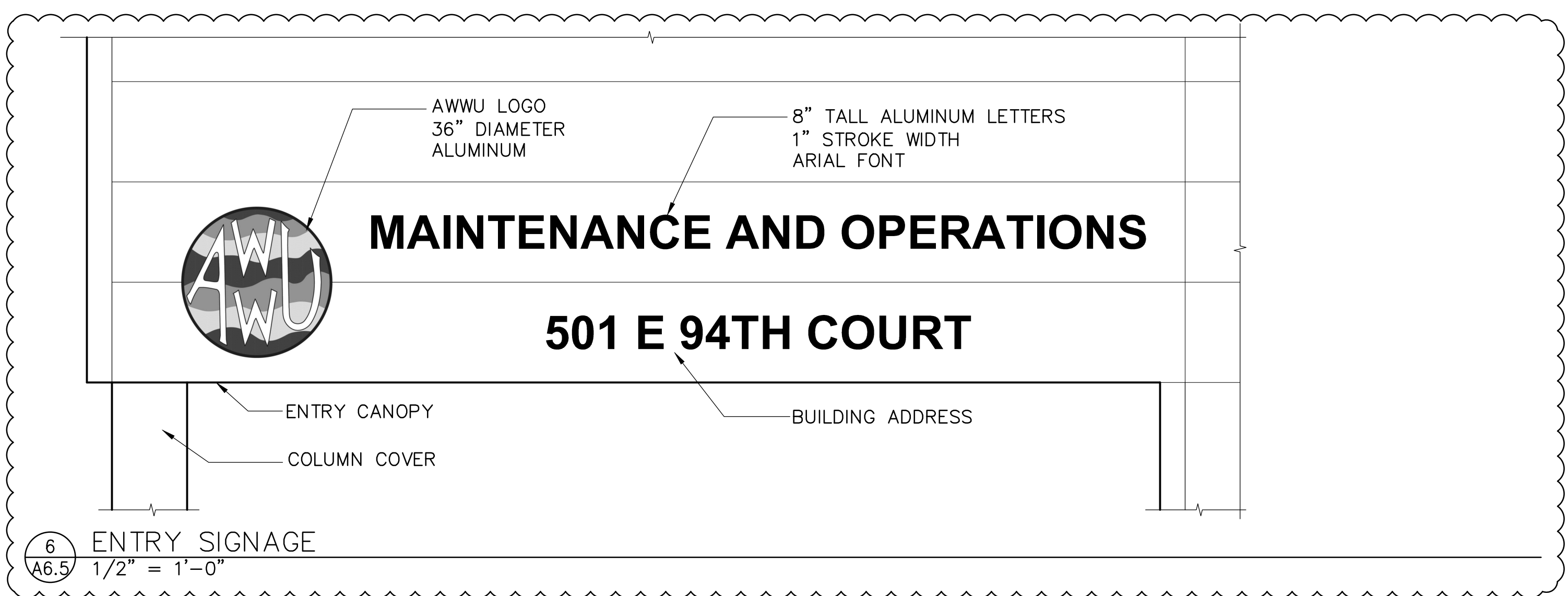
A6.5 3/4" = 1'-0"



5 PARAPET LADDER

A6.5 3/4" = 1'-0"

OSHA COMPLIANT ACCESS LADDER:
DETAILS SHOWN ARE TYPICAL. CONTRACTOR SHALL FIELD MEASURE EACH LADDER LOCATION. WHERE EXISTING LADDERS WERE REMOVED, UTILIZE EXISTING HOLES TO GREATEST EXTENT POSSIBLE



6 ENTRY SIGNAGE

A6.5 1/2" = 1'-0"

REV	DATE	DESCRIPTION	BY
1	6/8/21	MOA PLAN REVIEW	TJ
REVISIONS			

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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2. DATA TRANSFERRED BY: _____
COMPANY: _____
DATE: _____

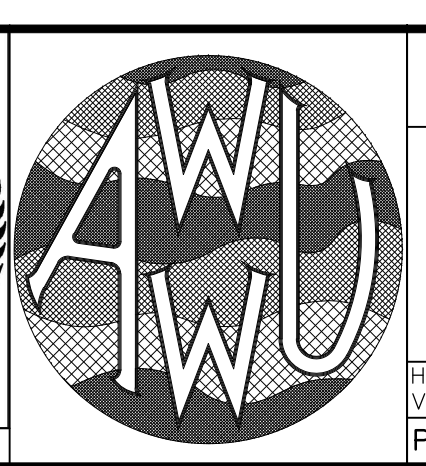
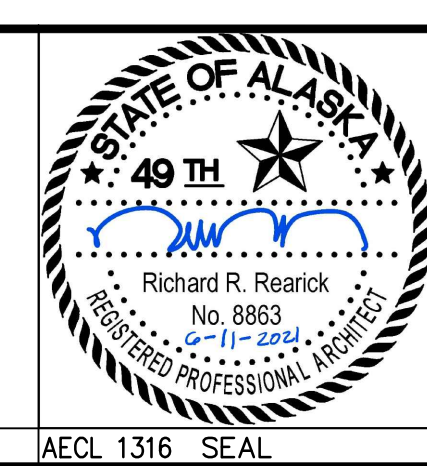
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CONSULTANT



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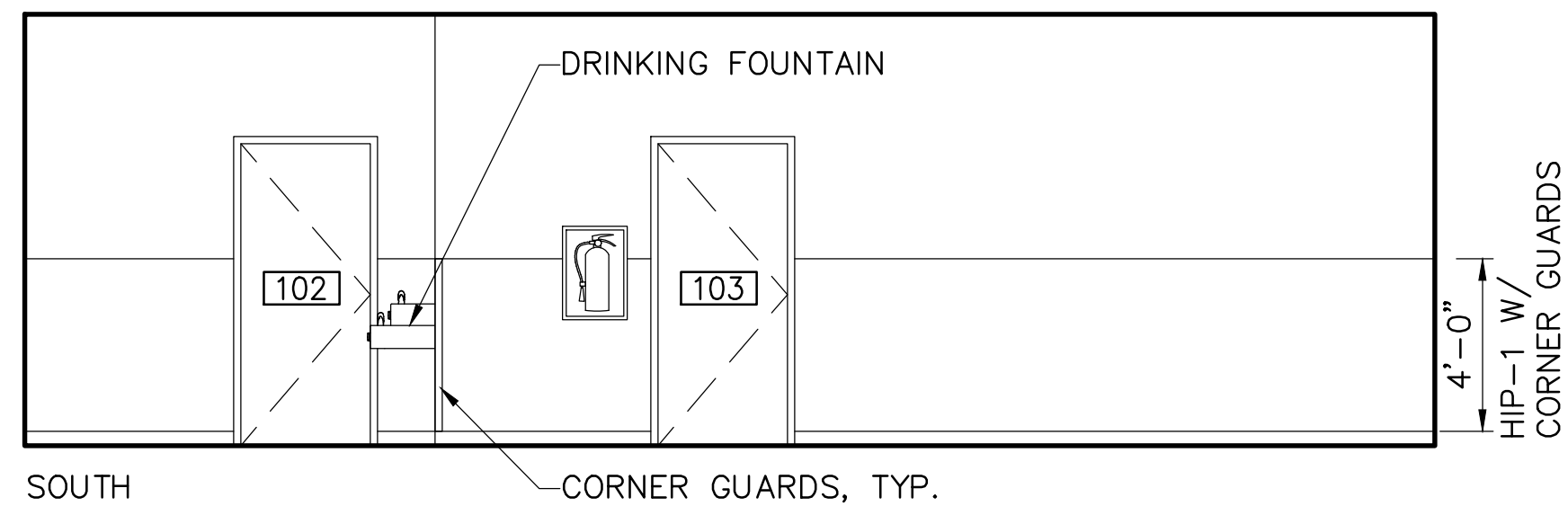
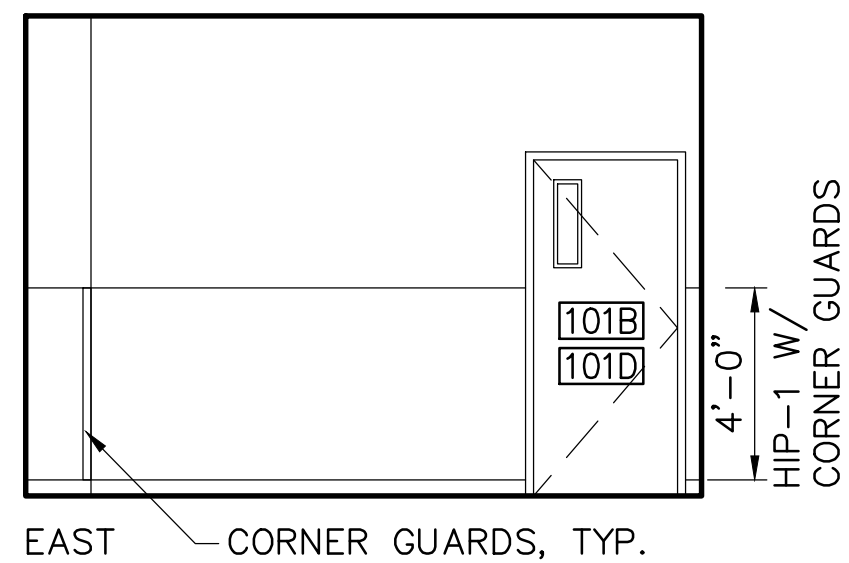
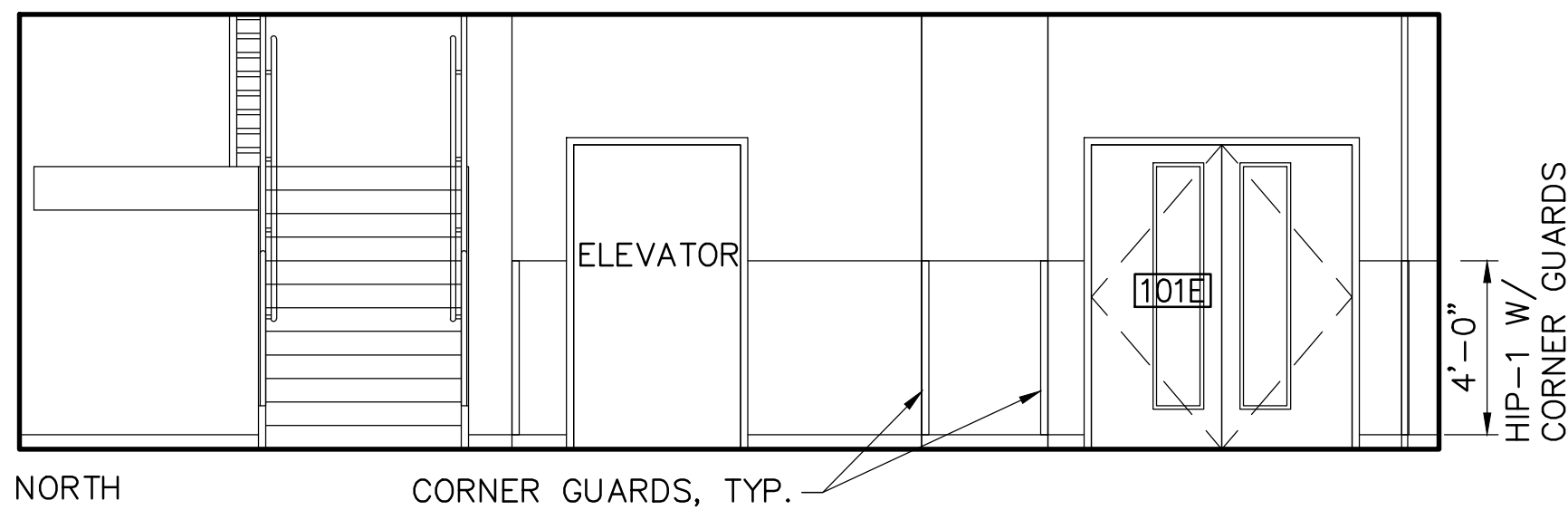
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

DETAILS

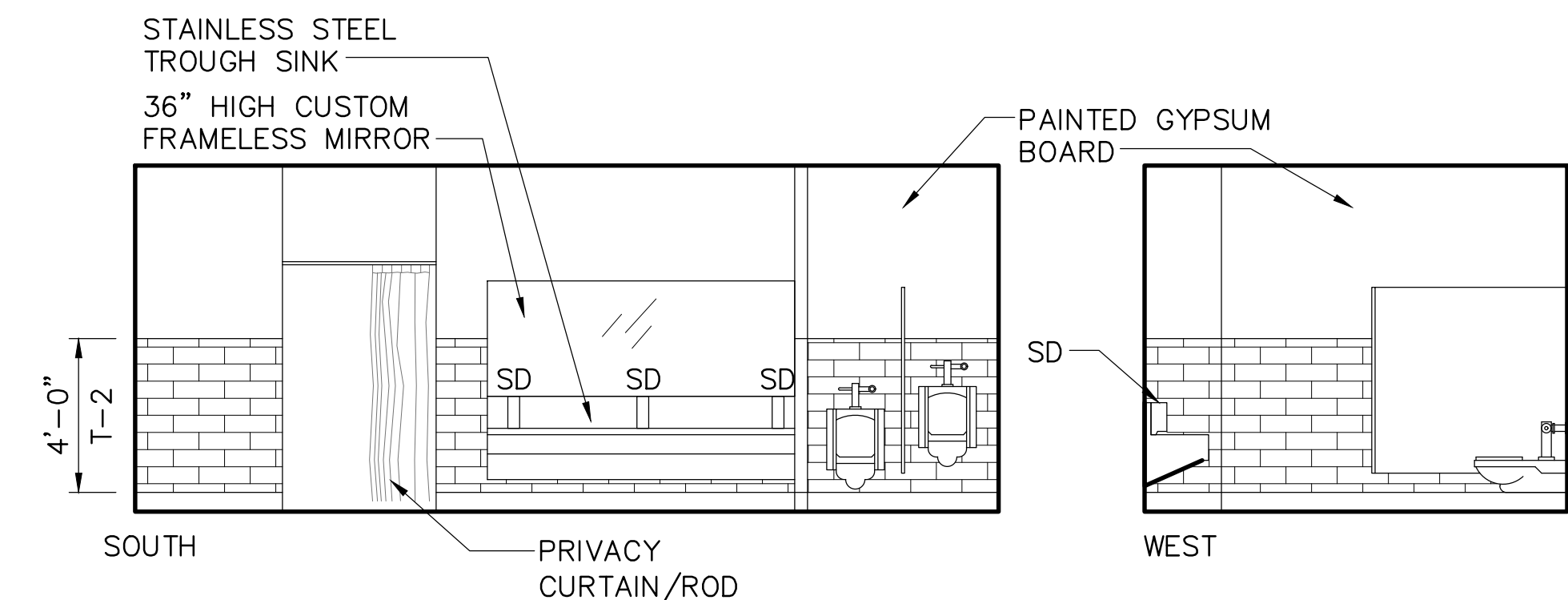
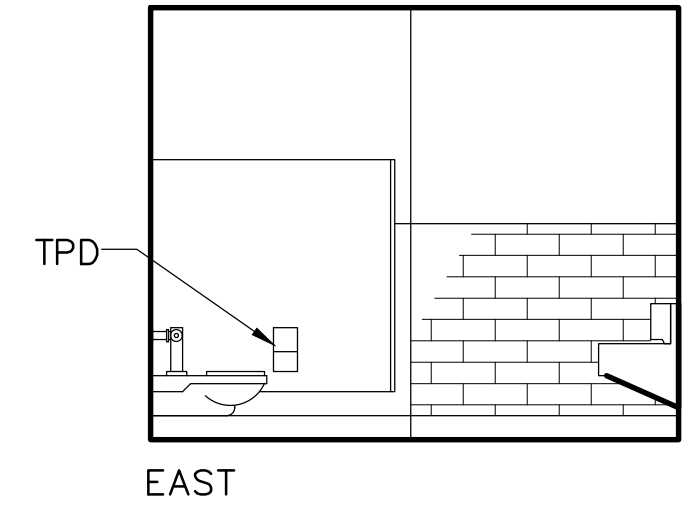
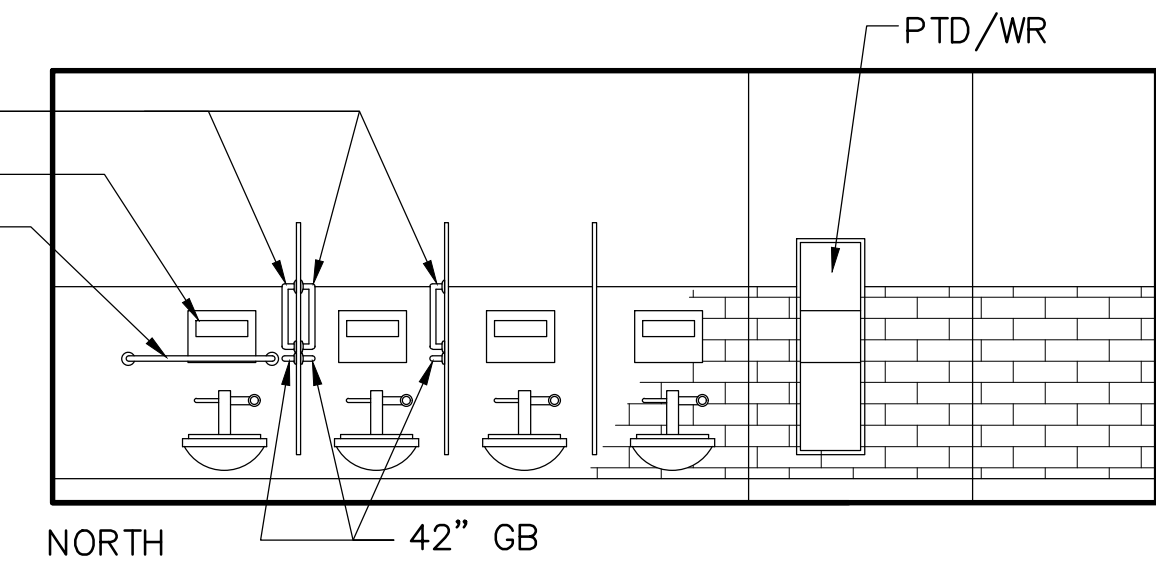
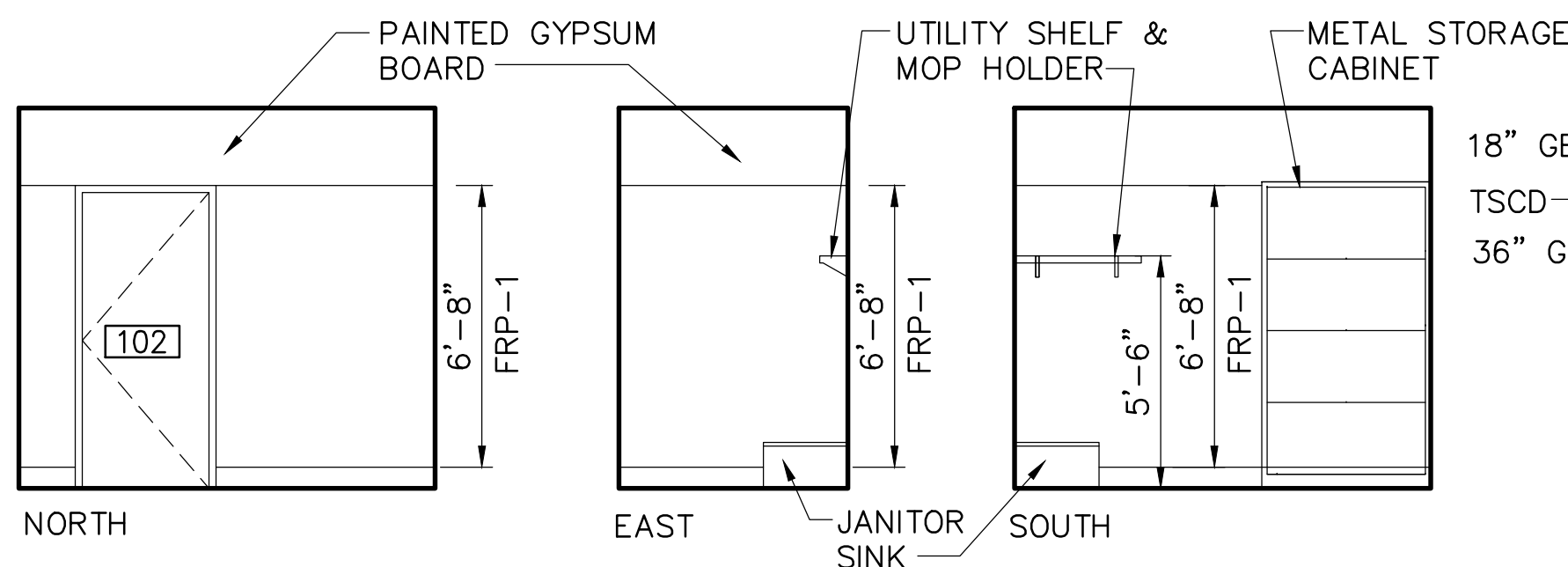
DWG A6.5

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

SHEET 130 of 288

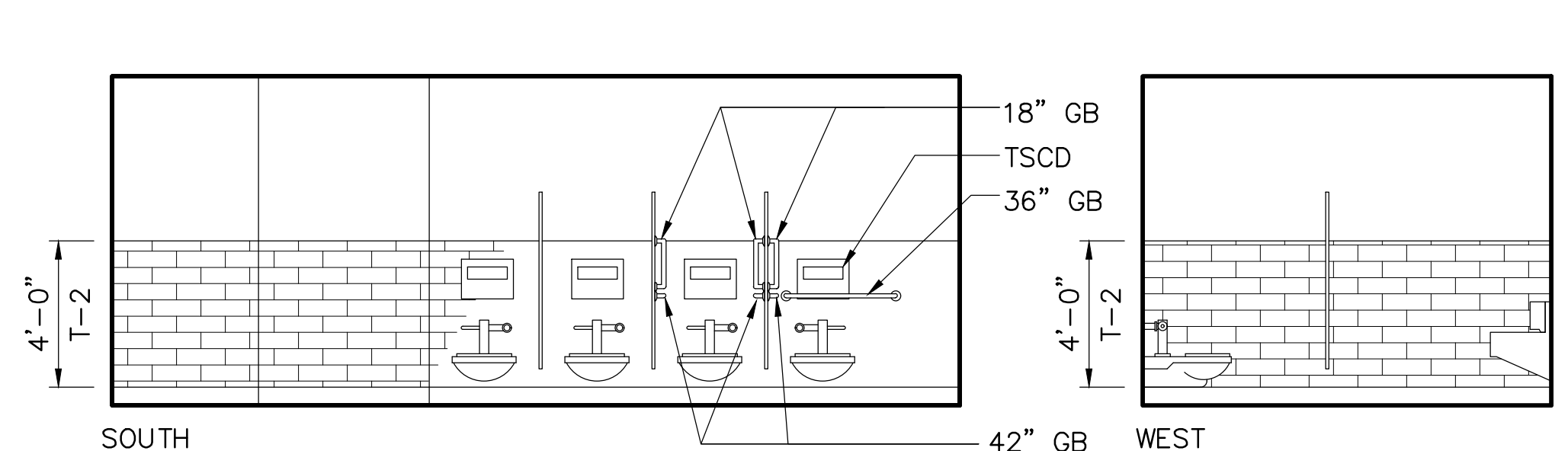
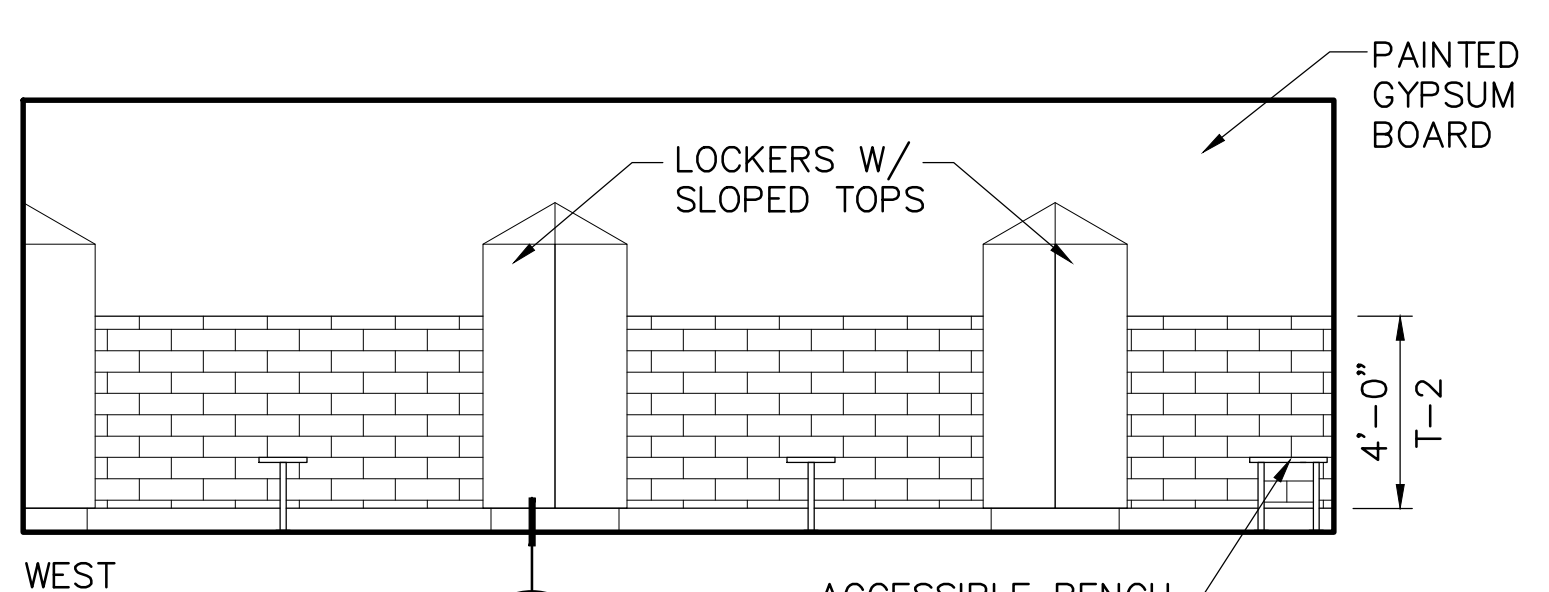
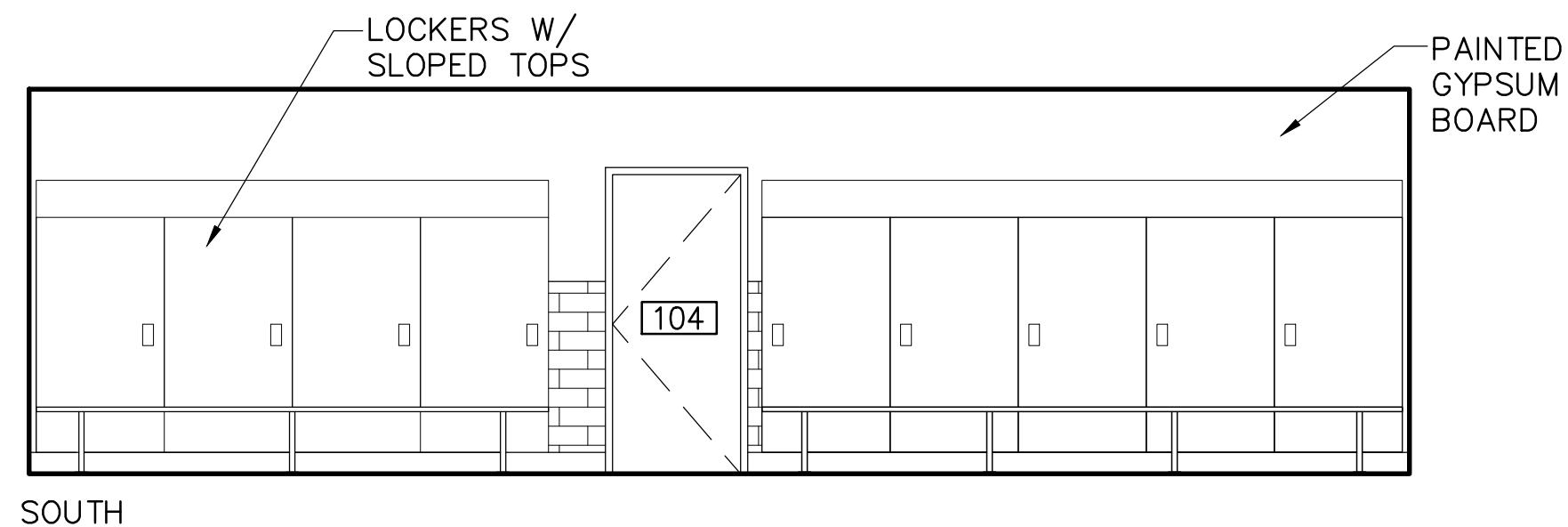
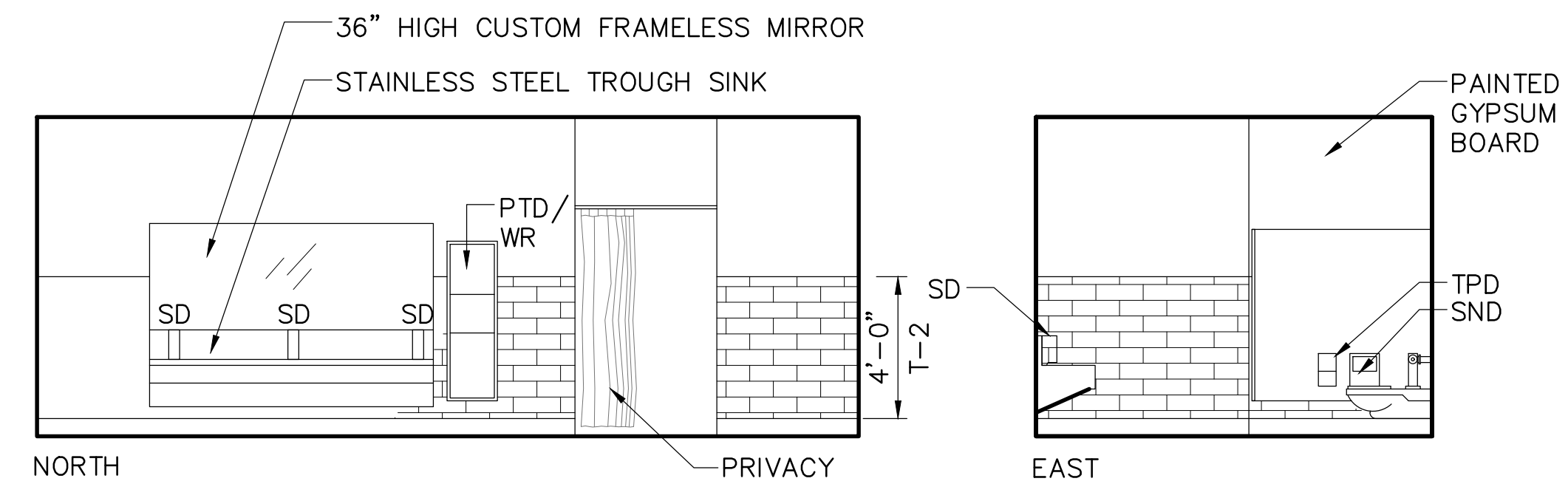
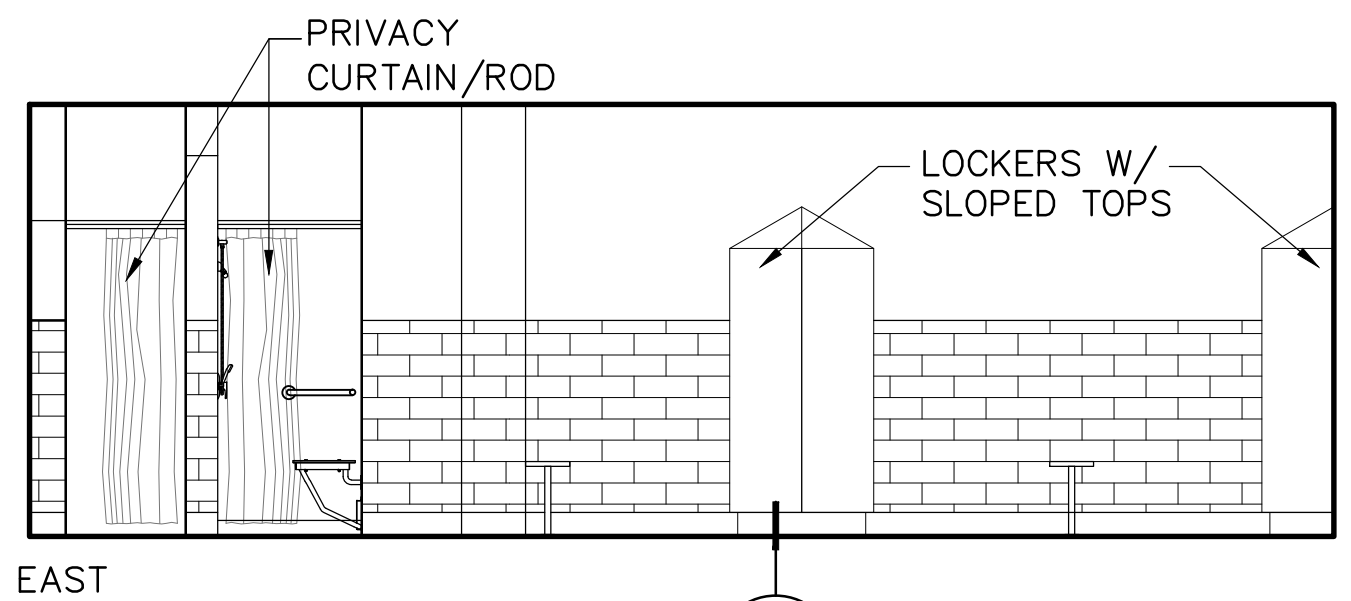
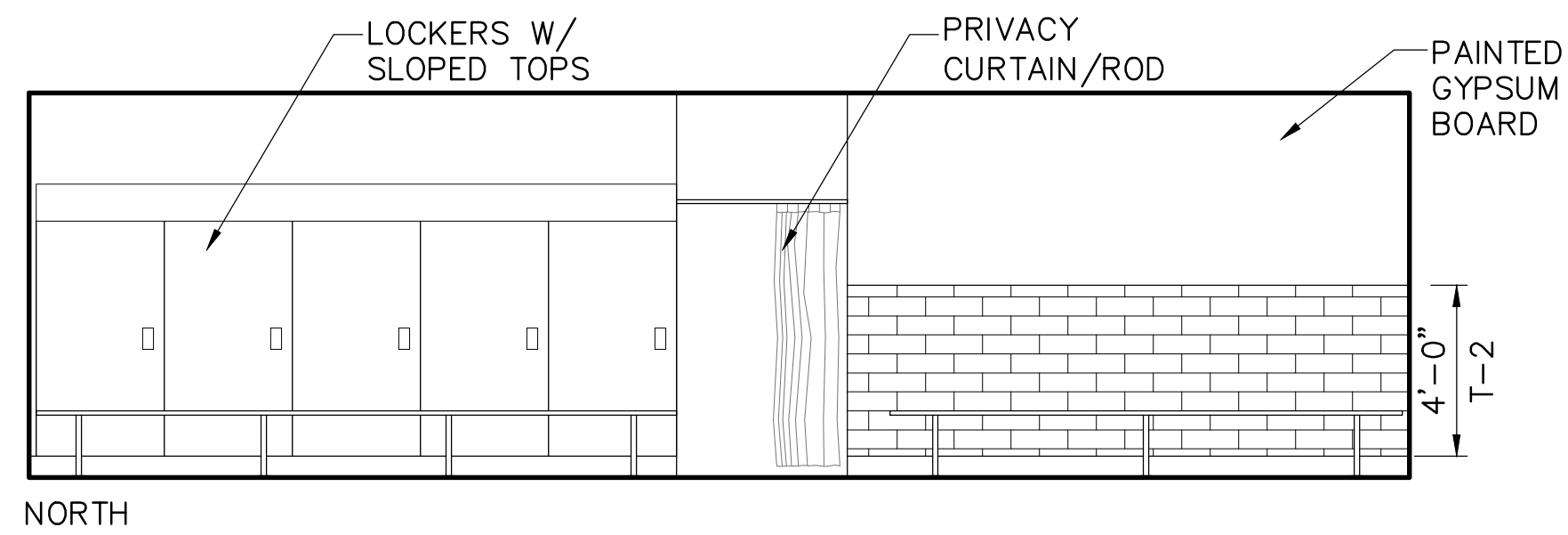


1 INTERIOR ELEVATION ENTRY 101
A7.1 1/4" = 1'-0"



2 INTERIOR ELEVATION JANITOR 102
A7.1 1/4" = 1'-0"

3 INTERIOR ELEVATION MENS 103
A7.1 1/4" = 1'-0"



4 INTERIOR ELEVATION MEN LOCKER 104 (LOCKERS 105 & 107 SIMILAR)
A7.1 1/4" = 1'-0"

5 INTERIOR ELEVATION WOMENS 106
A7.1 1/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

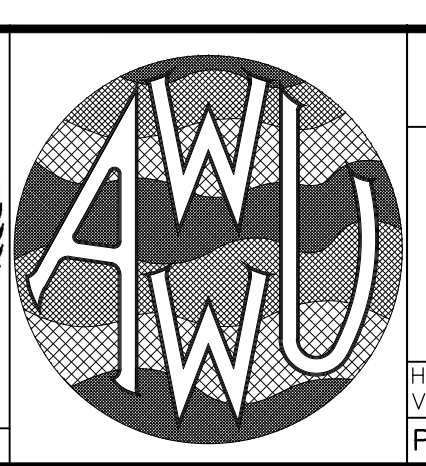
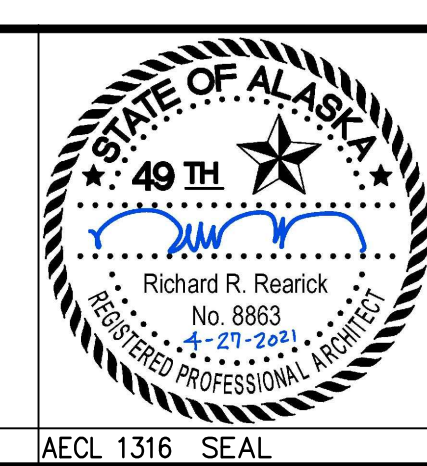
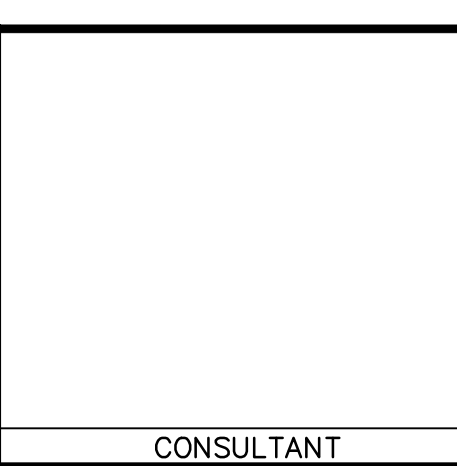
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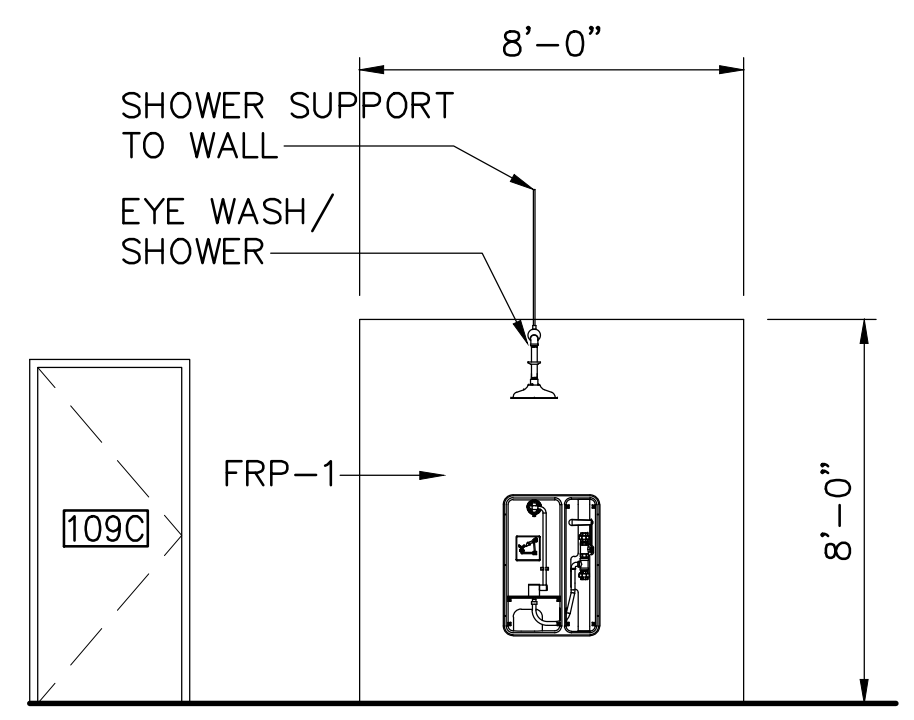
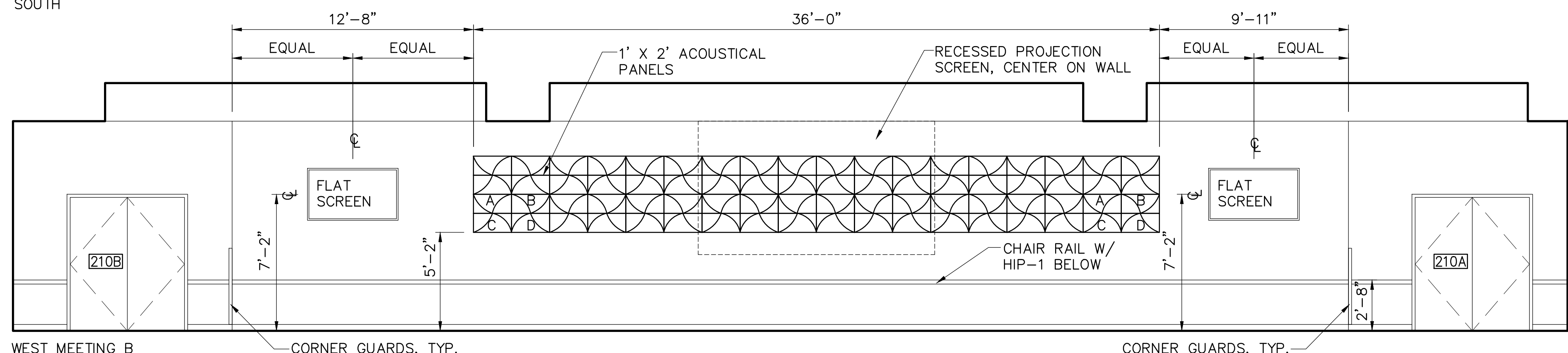
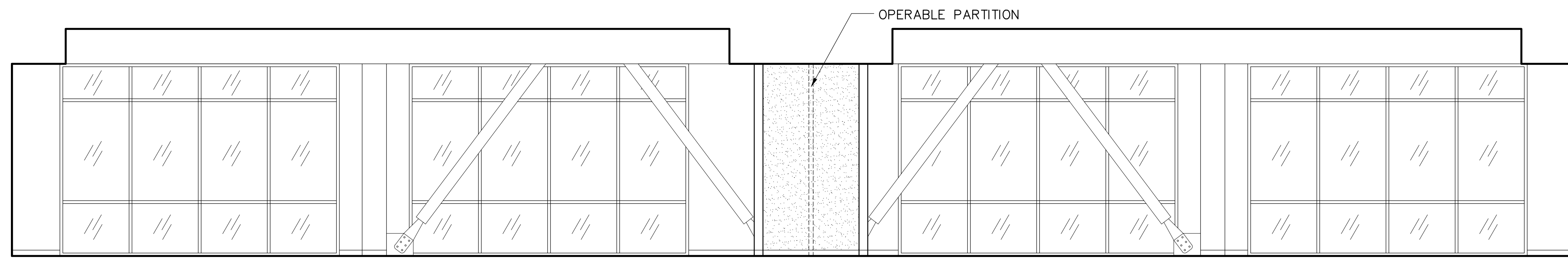
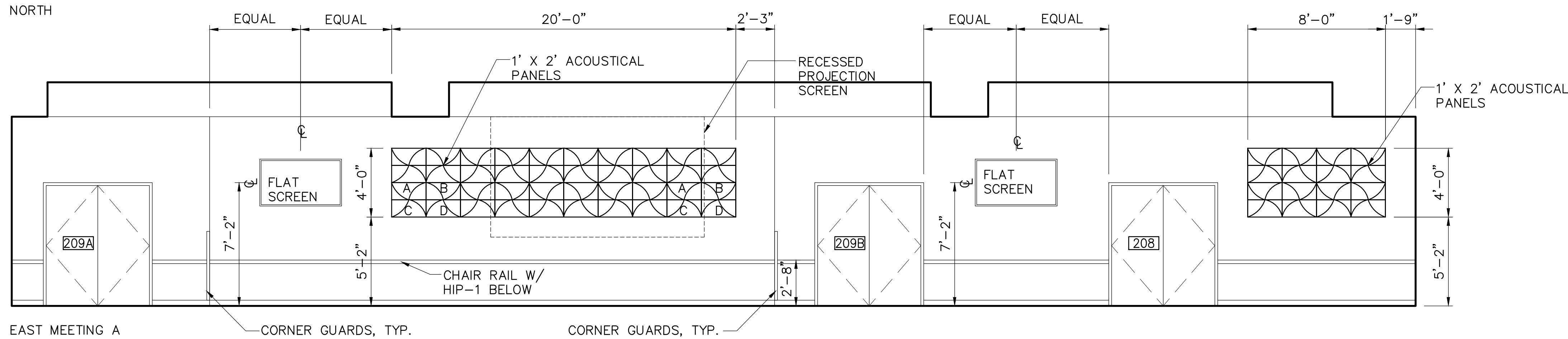
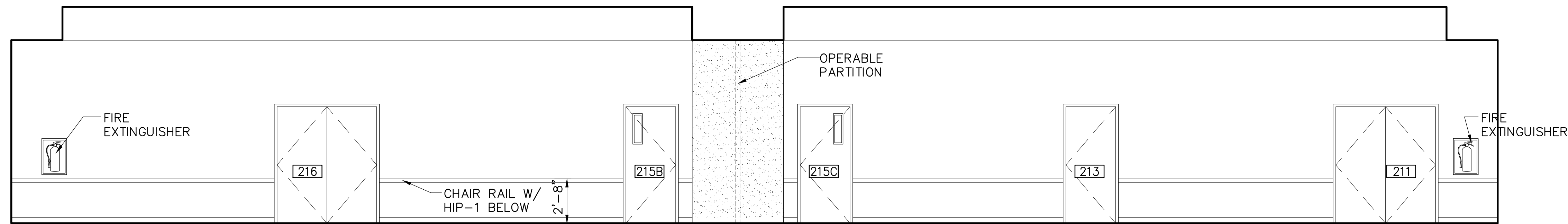
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

INTERIOR ELEVATIONS

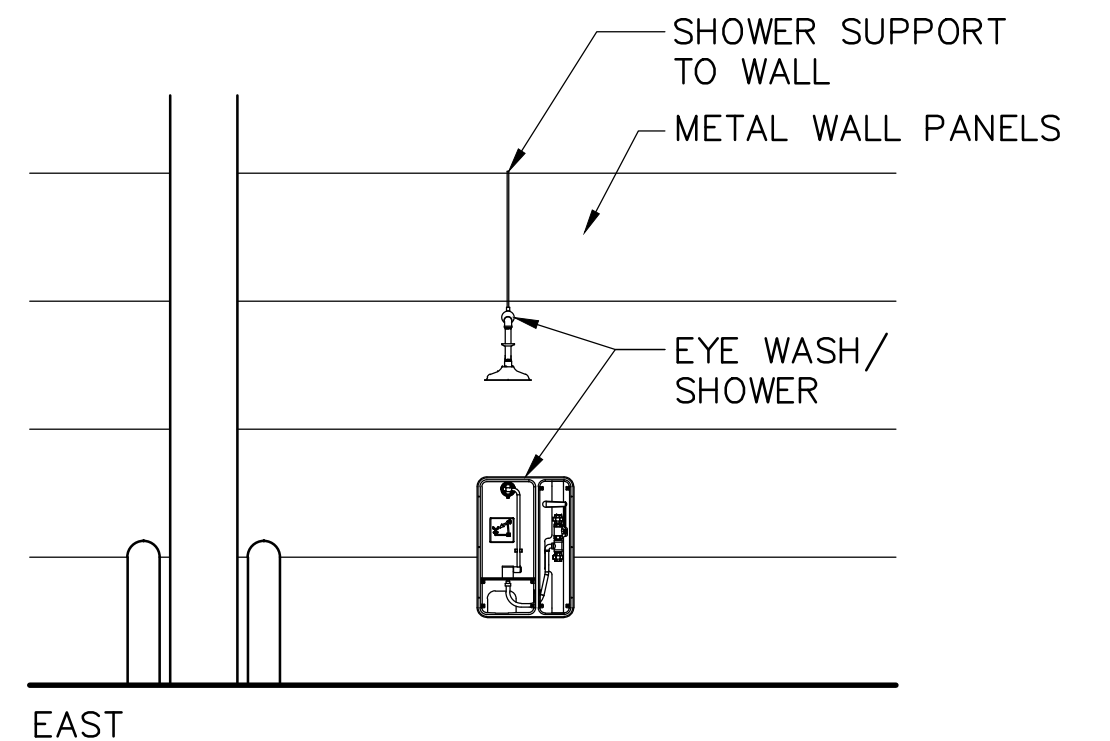
DWG A7.1

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

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2 INTERIOR ELEVATION EYEWASH STATION (E) 112
A7.3 1/4" = 1'-0"



3 INTERIOR ELEVATION EYE WASH STATION 111
A7.3 1/4" = 1'-0"

1 INTERIOR ELEVATION MEETING A 209 & MEETING B 210
A7.3 1/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

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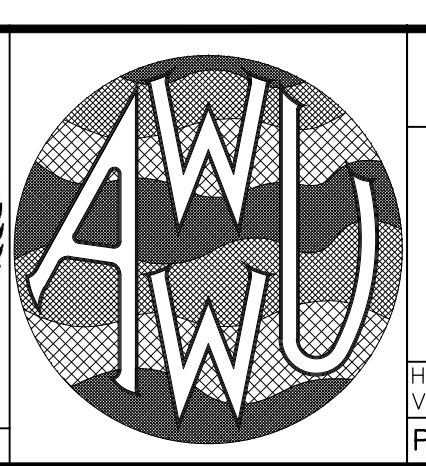
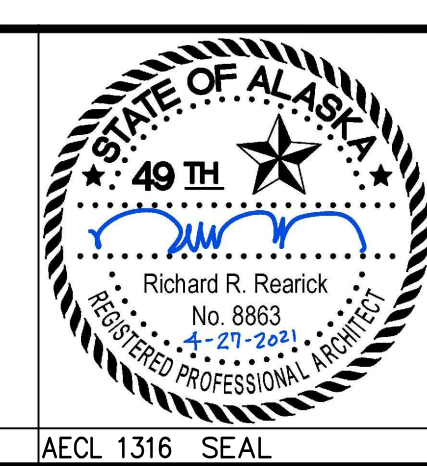
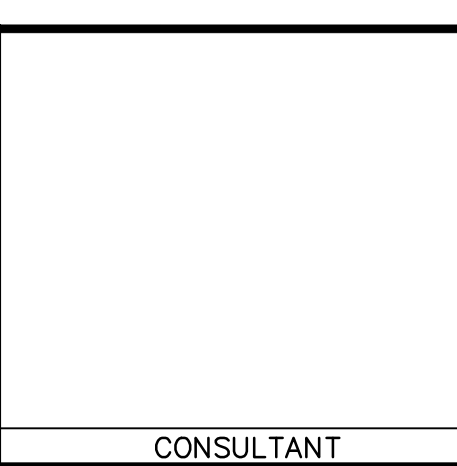
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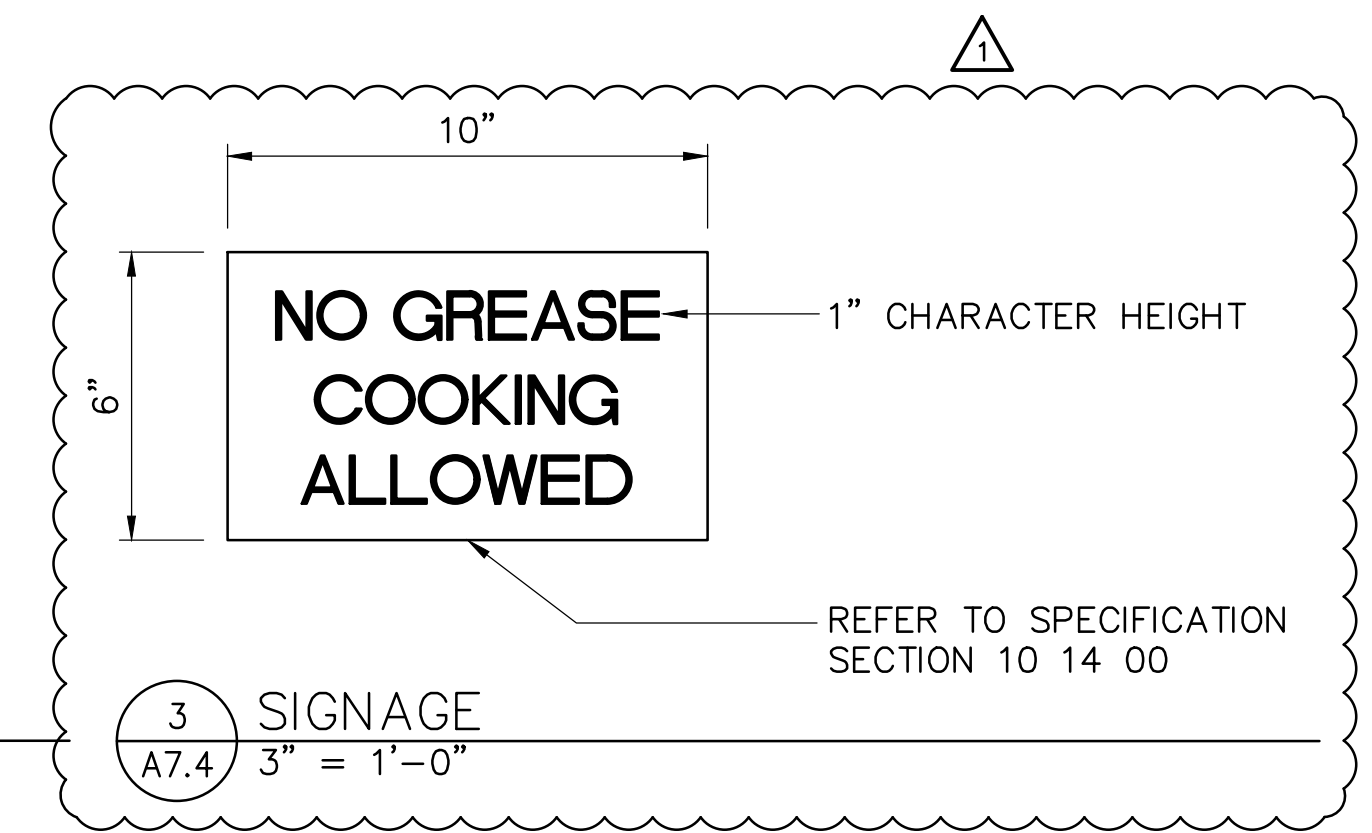
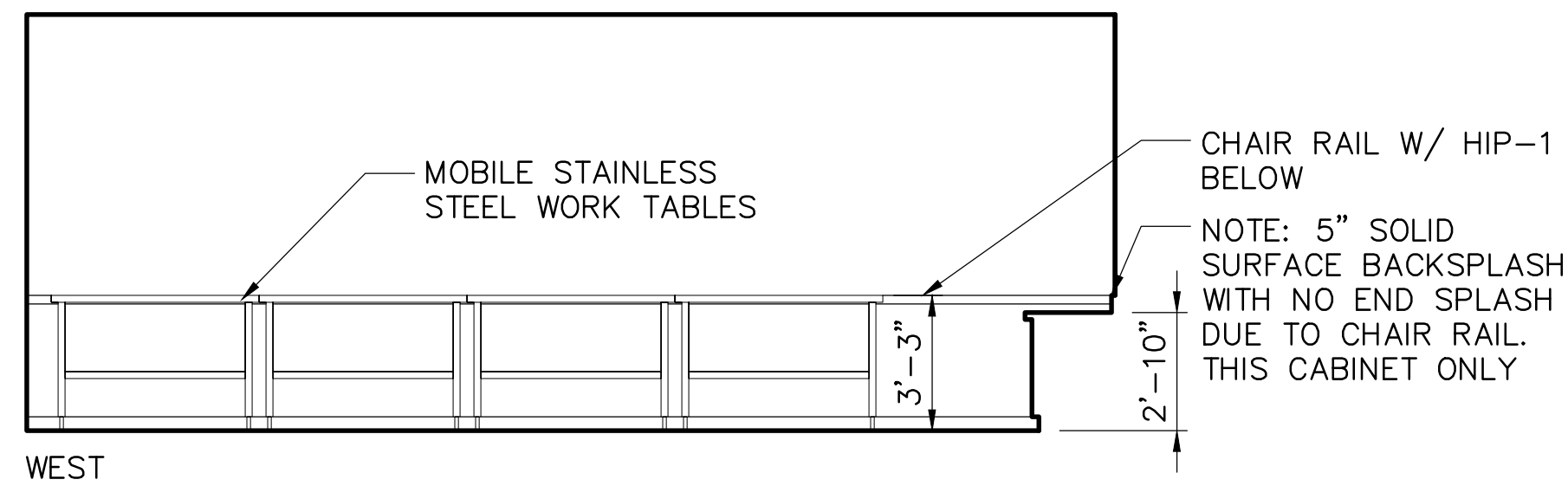
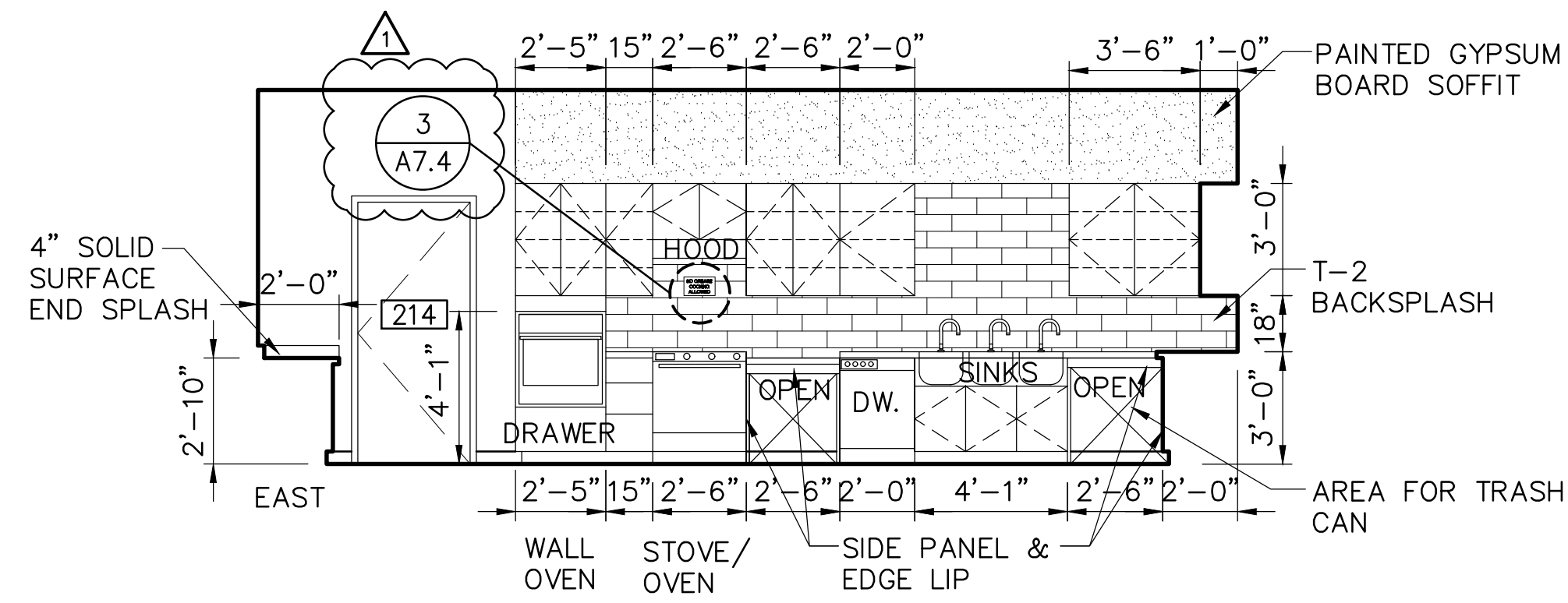
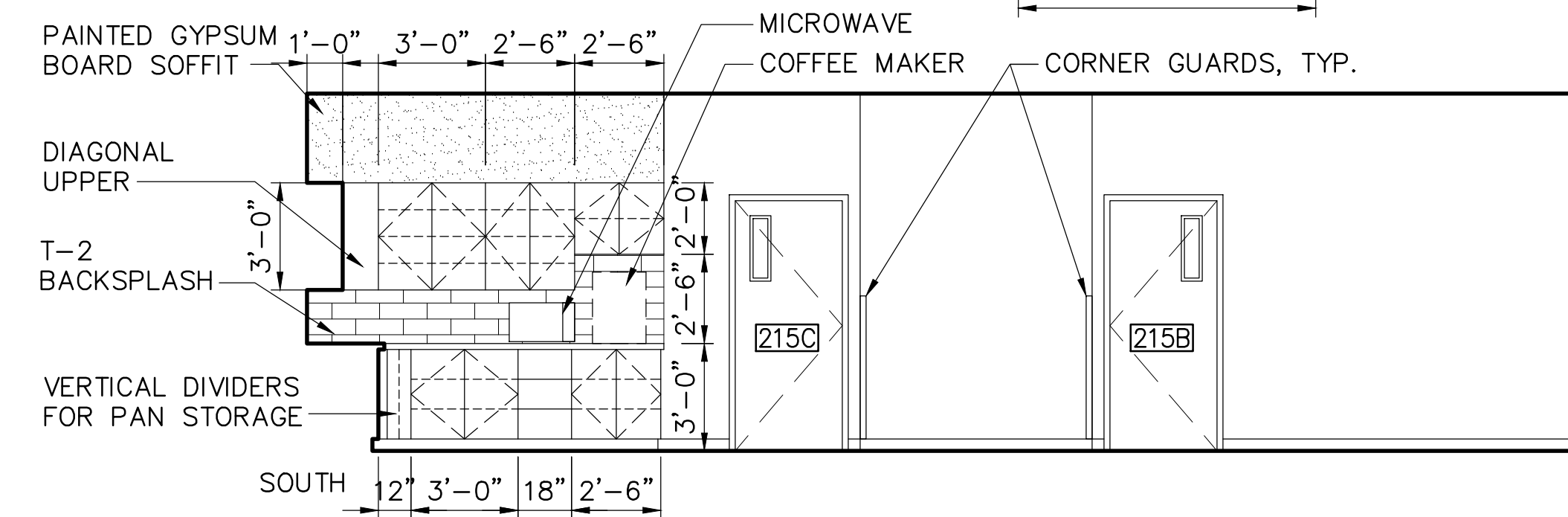
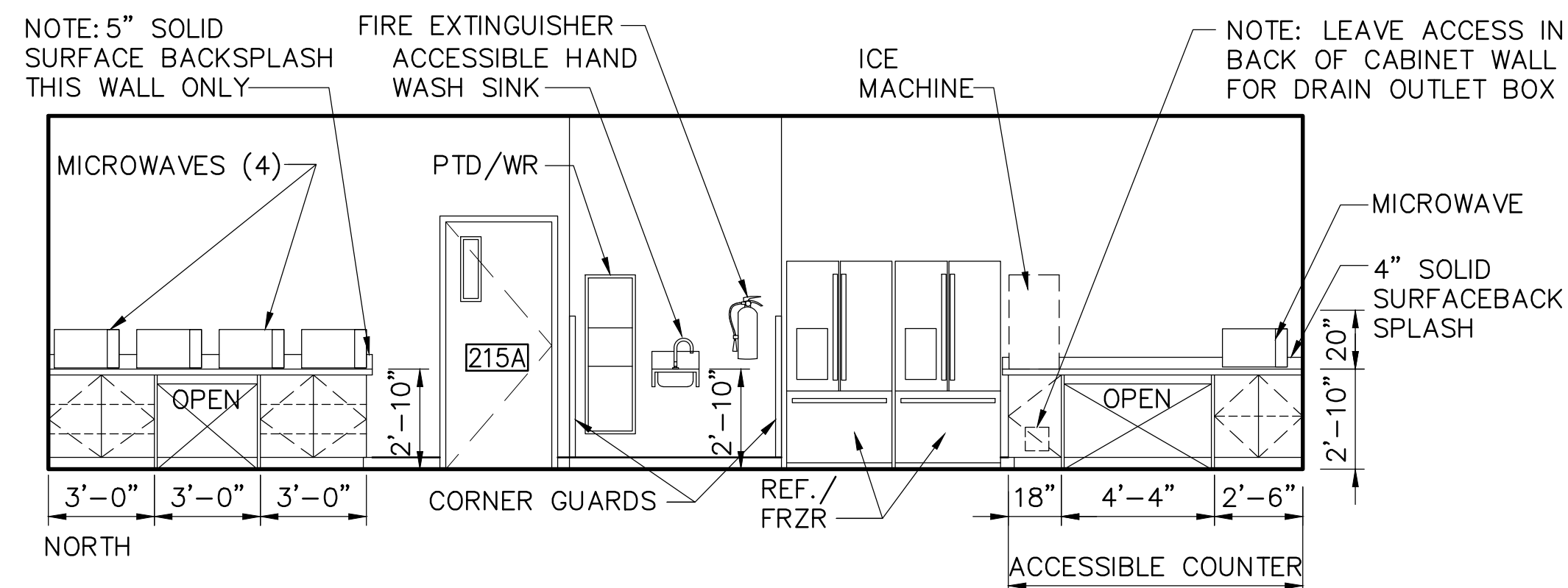
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

INTERIOR ELEVATIONS

DWG **A7.3**

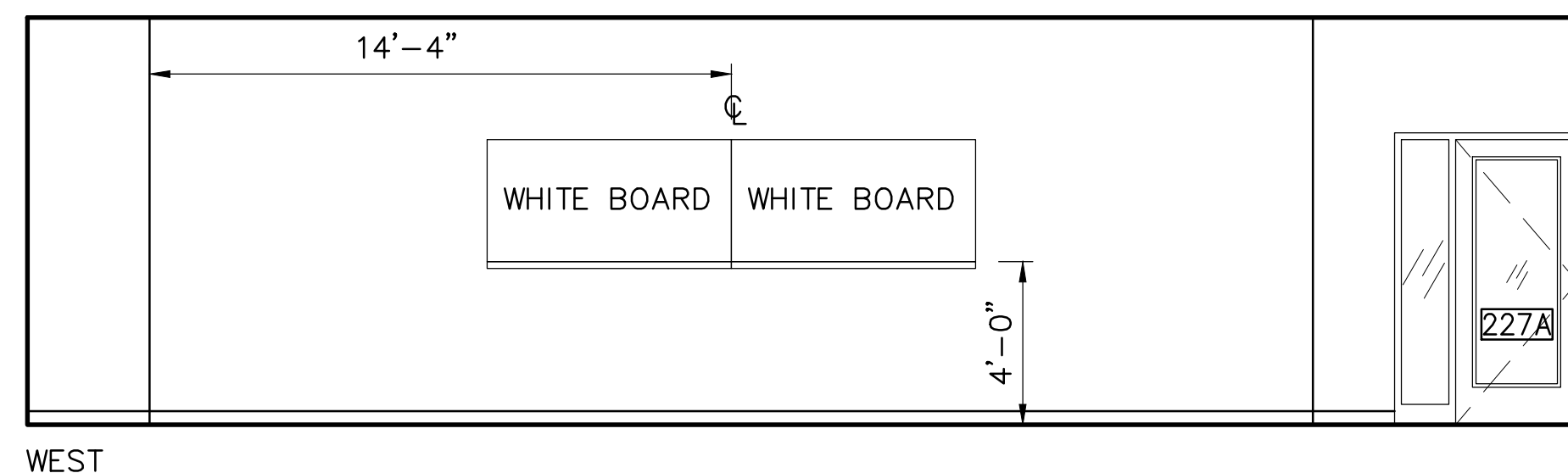
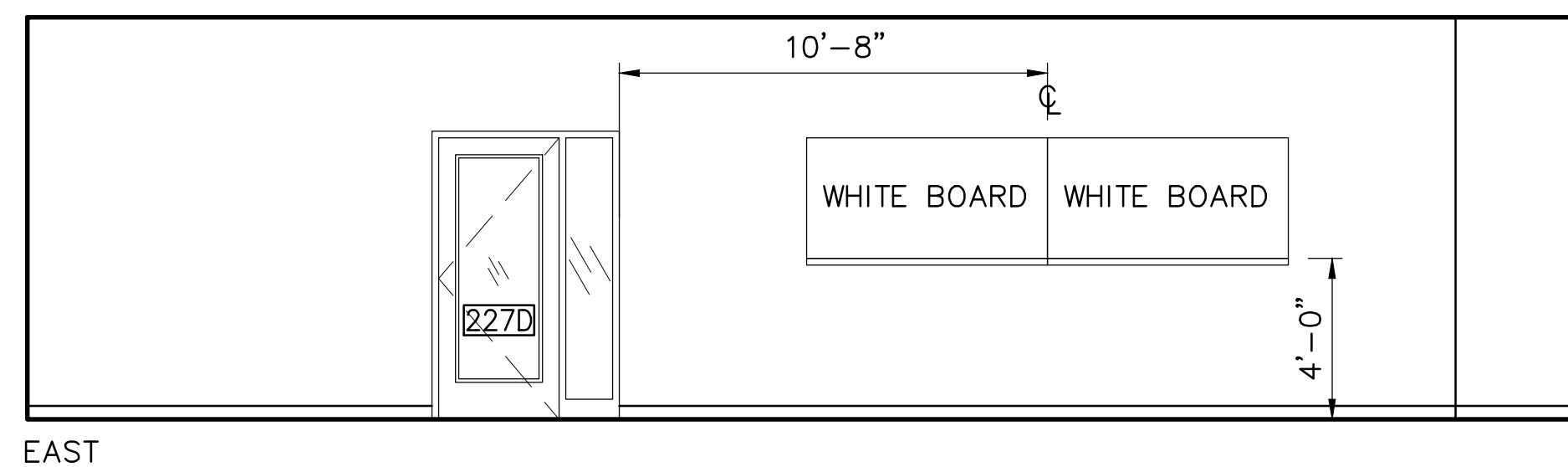
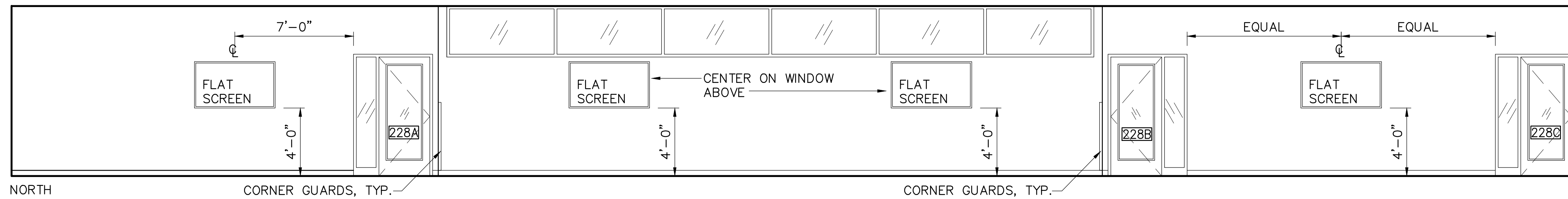
HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

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1 INTERIOR ELEVATION KITCHEN 215
A7.4 1/4" = 1'-0"

3 SIGNAGE
A7.4 3" = 1'-0"



2 INTERIOR ELEVATION WORKSTATION 227
A7.4 1/4" = 1'-0"

REV	DATE	DESCRIPTION	BY
1	6/8/21	MOA PLAN REVIEW	TJ
REVISIONS			

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

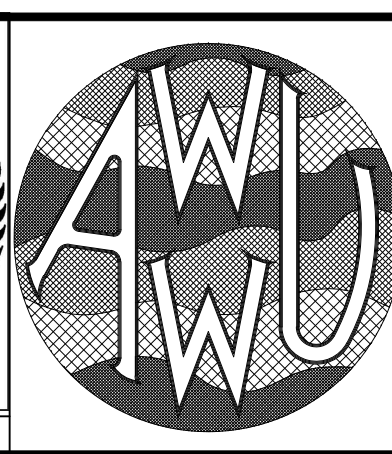
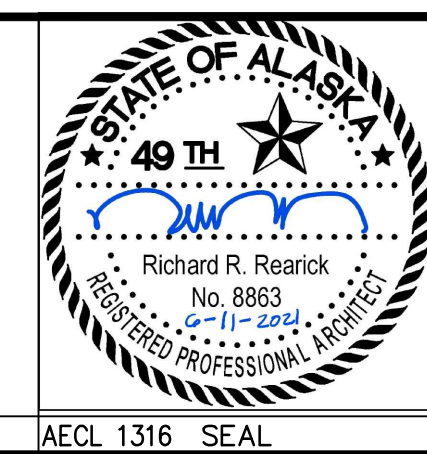
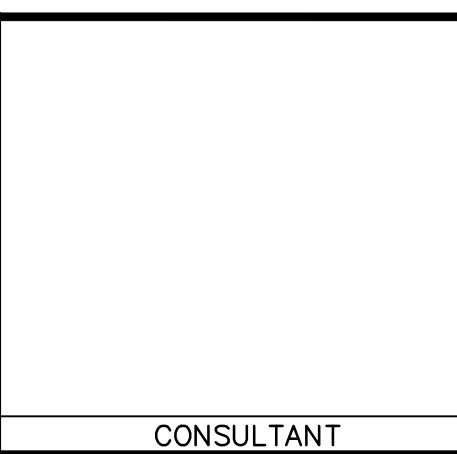
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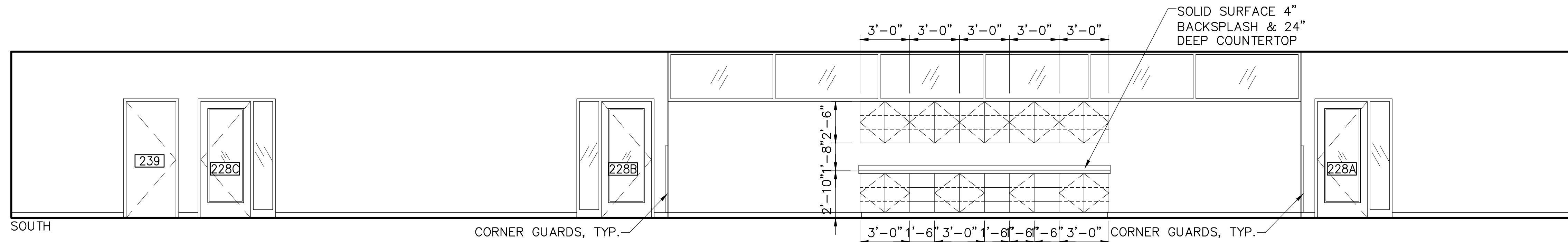
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

INTERIOR ELEVATIONS

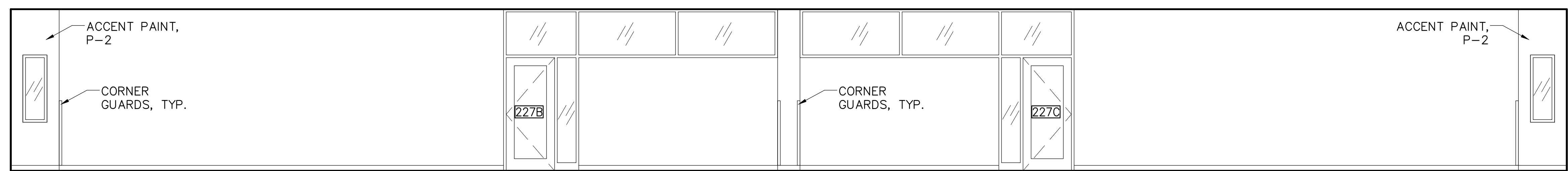
DWG **A7.4**

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 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

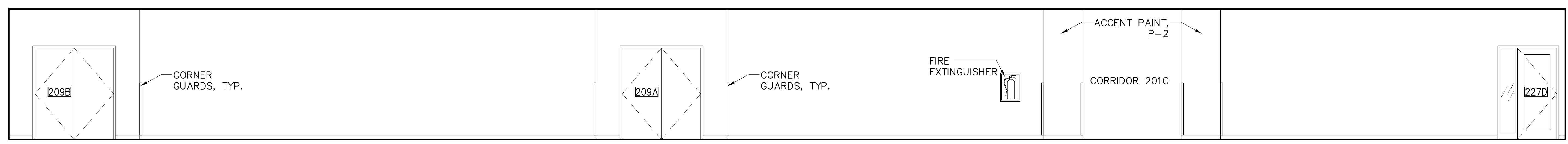
SHEET 134 of 288



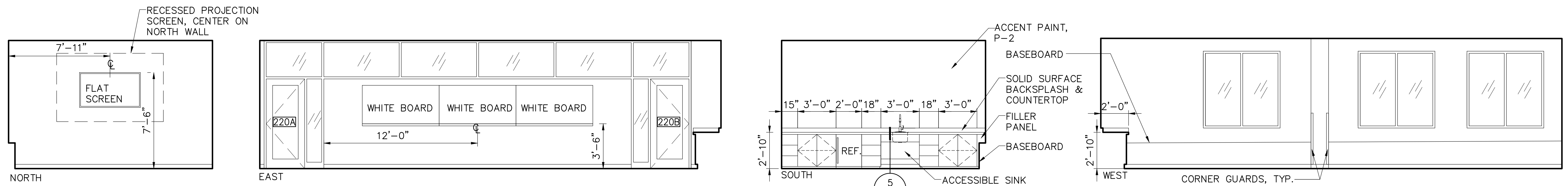
1 INTERIOR ELEVATION HALLWAY 228
A7.5 1/4" = 1'-0"



2 INTERIOR ELEVATION CORRIDOR 201C
A7.5 1/4" = 1'-0"



3 INTERIOR ELEVATION CORRIDOR 201B
A7.5 1/4" = 1'-0"



4 INTERIOR ELEVATION CONFERENCE RM 220
A7.5 1/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

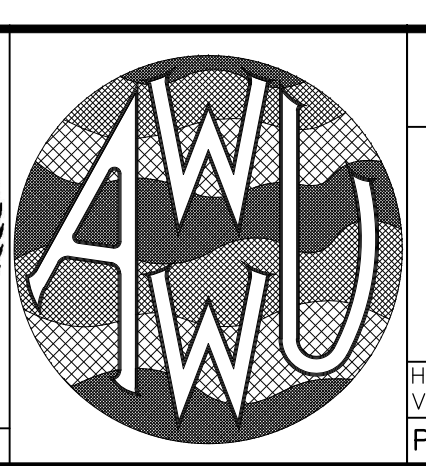
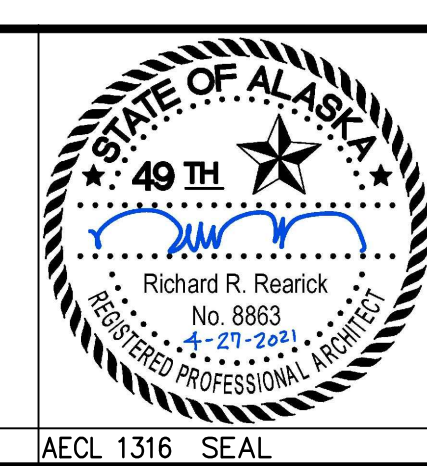
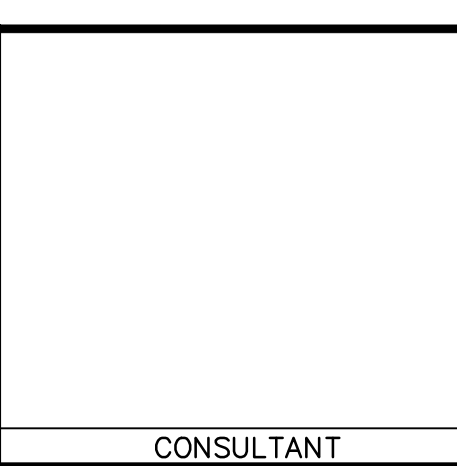
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CONTRACTOR: _____
DATE: _____ TITLE: _____
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2. DATA TRANSFERRED BY: _____
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DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
DATA TRANSFER CHECKED BY: _____
COMPANY: _____
DATE: _____ TITLE: _____
BY: _____

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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

INTERIOR ELEVATIONS

DWG
A7.5

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

SHEET 135 of 288

FINISH LEGEND

REFER TO G2.1 FOR ABBREVIATIONS

CARPET TILES

- CPT-1 NOT USED
- CPT-2 SHAW CONTRACT | 9X36 | TRANSFORM 5T308 | WLD 05557
- CPT-3 SHAW CONTRACT | 9X36 | RESPOND 5T307 | WLD 05557
- CPT-4 SHAW CONTRACT | 9X36 | OBSERVE 5T306 | WLD 05557
- WM-1 WALK-OFF MAT | SHAW CONTRACT | PATH TILE | STERLING 34557

CERAMIC & PORCELAIN TILE (WALL & FLOOR)

- T-1 FLOOR | CROSSVILLE | BASALT | AV291 SILICA | 12X24
- T-2 WALL | CROSSVILLE | SWATCHES | NEU14 OLD LACE SATIN | 3X12
- T-3 BASE | CROSSVILLE | BASALT | AV291 SILICA | COVE BASE 6X12

RUBBER STAIR TREADS, RISERS & LANDINGS

- R-1 TARKETT | ANGLE FIT RUBBER STAIR TREAD WITH INTEGRATED RISER & GRIT TAPE | MICROTONE LUNAR EXPLORER HN5P-LD7 | BLACK GRIT TAPE

RESILIENT PLANK FLOORING

- LVT-1 SHAW CONTRACT | INCLUSIVE 4068V | 68516 GUNMETAL | 7X48

BIO BASED TILE

- BBT-1 ARMSTRONG COMMERCIAL FLOORING | STRIATIONS BBT | ATMOSPHERE | Z3601
- BBT-2 ARMSTRONG COMMERCIAL FLOORING | MIGRATIONS BBT | EMBLEM | Z3531
- BBT-3 ARMSTRONG COMMERCIAL FLOORING | MIGRATIONS BBT | SEASIDE | Z3529
- BBT-4 ARMSTRONG COMMERCIAL FLOORING | MIGRATIONS BBT | HALL | Z3547

RESILIENT FLOORING

- RF-1 HOMOGENEOUS | GERFLOR | MIPOLAM SYMBIOZ | OCEANIA 6036
- RF-2 CONDUCTIVE VINYL TILE | JULIE INDUSTRIES | STATIC SMART | SUMMIT SERIES | 6005 RAINIER | 12X12

BASE

- ROLL GOODS ONLY, STICKS ARE NOT ACCEPTABLE
- B-1 COVED TOE | 4" | ROPPE | TYPE TS | 29 MOON ROCK
- B-2 INTEGRAL SHEET VINYL | 6" COVED BASE | GERFLOR | MIPOLAM SYMBIOZ | OCEANIA 6036

WALL PAINT

- SYSTEMS AND SHEENS AS SPECIFIED
- P-1 GENERAL PAINT | SHERWIN WILLIAMS | PROMAR 200 | SW7757 | HIGH REFLECTIVE WHITE
- P-2 ACCENT PAINT | SHERWIN WILLIAMS | PROMAR 200 | SW6508 | SECURE BLUE
- P-3 HM DOORS | SHERWIN WILLIAMS | PRO INDUSTRIAL DTM ACRYLIC | SW7643 | PUSSYWILLOW
- P-3 HAND/GUARDRAILS | SHERWIN WILLIAMS | PRO INDUSTRIAL DTM ACRYLIC | SW7643 | PUSSYWILLOW
- P-4 HM FRAMES & STRUCTURAL DIAGONAL BRACES | SHERWIN WILLIAMS | PRO INDUSTRIAL DTM ACRYLIC | SW7642 | PAVESTONE

WALL COVERING (RIGID, HIGH-IMPACT PLASTIC PANELS)

- MATCHING TRIM OR SEALANT
- HIP-1 CS | ACROVYN | 4000 RIGID SHEET | 0.040" | 315 GALVESON GRAY
- CG-1 CORNER GUARD | 48"H | ACROVYN | SM-20N 1/4" RADIUS | SURFACE-MOUNT | 315 GALVESON GRAY
- FRP-1 CRANE COMPOSITE | GLASBOARD | PEBBLED EMBOSSED | 66 SILVER
- CR-1 CS | ACROVYN | WALL BUMPER (CHAIR RAIL) | FR-251N |

CEILINGS

- SACT-1 ARMSTRONG COMMERCIAL CEILING TILE | MESA SECOND LOOK II | #688 | 24X48X3/4" | WHITE | 1/8" ANGLED OPTEGULAR
- SACT-2 ARMSTRONG COMMERCIAL CEILING TILE | OPTIMA SQUARE LAY-IN | #3153 | 24X48X1" | WHITE | 1/8" SQUARE LAY-IN
- P-5 PAINTED GWB | SHERWIN WILLIAMS | PROMAR 200 | SW7012 SNOWBOUND

CASEWORK

- SLDS-1 WINDOWSILLS | SOLID SURFACE | FORMICA | 103 FROST
- GROUP 1
- COUNTERTOP | SOLID SURFACE | FORMICA | 770 BOTTLE GLASS QUARTZ
- CABINET FACE: PLASTIC LAMINATE | FORMICA | SARUM TWILL 8827-58
- HARDWARE PULL | MOCKETT | DP-6 1/8" SSS
- GROUP 2
- COUNTERTOP | SOLID SURFACE | LG HAUSYS VIATERA | NOCTURNE
- CABINET FACE: PLASTIC LAMINATE | WILSONART | FONTHILL PEAR 10745-60

MISCELLANEOUS

- ROLLER SHADES
- RS-1 SINGLE SHADES | MANUAL | MECO/5X SHADES | SHADE CLOTH | EUROTWILL REVERSIBLE TWILL WEAVE | 6000 SERIES | 3% OPEN | 6004 SAND
- RS-2 DUAL SHADES | MECOSHADOW | ELECTROSHADE | SHADE CLOTH 1: EUROTWILL REVERSIBLE TWILL WEAVE | 6000 SERIES | 3% OPEN | 6010 NICKEL
- SHADE CLOTH 2: BLACK-OUT | CHELSEA BLACKOUT | 0250 SERIES | OPAQUE | 0272 SAND
- MB-1 1" MINI HORIZONTAL BLINDS | HUNTER DOUGLAS | CL 62 | ARCHITECT TO SELECT FROM STANDARDS COLORS. INSTALL ON ALL DOOR RELITES
- ACOUSTICAL PANELS
- AP-1 FILZ FELT | FIGURE NO. 1 | 1'x2' | 345 PAZIFIK AND 312 LAGUNE

AWWU PLAN SET
NO. 10771

INTERIOR FINISH SCHEDULE – FIRST FLOOR/MEZZANINE/STAIRS

ROOM NUMBER	ROOM DESCRIPTION	FLOOR		BASE		WALLS						CEILING		REMARKS	ROOM NUMBER			
		MATERIAL	FINISH	MATERIAL	FINISH	NORTH	EAST	SOUTH	WEST	MATERIAL	FINISH	HEIGHT						
101A	VESTIBULE	WM-1	FACTORY	B-1	FACTORY	GWB	P-1/HIP-1	GWB	P-1/HIP-1	GWB	P-1/HIP-1	GWB	P-1/HIP-1	GWB	P-5	10'-0"	CG-1	101A
101B	ENTRY	WM-1	FACTORY	B-1	FACTORY	GWB	P-1/HIP-1	GWB	P-1/HIP-1	GWB	P-1/HIP-1	GWB	P-1/HIP-1	SACT-1	FACTORY	10'-0"	CG-1	101B
102	JANITOR	CONCRETE	SEALER	B-1	FACTORY	GWB	P-1/FRP-1	GWB	P-1/FRP-1	GWB	P-1/FRP-1	GWB	P-1/FRP-1	GWB	P-5	9'-0"	FRP TO TOP OF DOOR FRAME	102
103	MENS	T-1	FACTORY	T-3	FACTORY	GWB	T-2/P-1	GWB	T-2/P-1	GWB	T-2/P-1	GWB	T-2/P-1	GWB	P-5	9'-0"	TILE WAINSCOT TO 4'-0" A.F.F.	103
104	MENS LOCKER	T-1	FACTORY	T-3	FACTORY	GWB	T-2/P-1	GWB	T-2/P-1	GWB	T-2/P-1	GWB	T-2/P-1	GWB	P-5	9'-0"	TILE WAINSCOT TO 4'-0" A.F.F.	104
105	LOCKERS	T-1	FACTORY	T-3	FACTORY	GWB	T-2/P-1	GWB	T-2/P-1	GWB	T-2/P-1	GWB	T-2/P-1	GWB	P-5	9'-0"	TILE WAINSCOT TO 4'-0" A.F.F.	105
106	WOMENS	T-1	FACTORY	T-3	FACTORY	GWB	T-2/P-1	GWB	T-2/P-1	GWB	T-2/P-1	GWB	T-2/P-1	GWB	P-5	9'-0"	TILE WAINSCOT TO 4'-0" A.F.F.	106
107	WOMENS LOCKER	T-1	FACTORY	T-3	FACTORY	GWB	T-2/P-1	GWB	T-2/P-1	GWB	T-2/P-1	GWB	T-2/P-1	GWB	P-5	9'-0"	TILE WAINSCOT TO 4'-0" A.F.F.	107
108	LAUNDRY	RF-1	FACTORY	B-2	FACTORY	GWB	P-1/FRP-1	GWB	P-1/FRP-1	GWB	P-1/FRP-1	GWB	P-1/FRP-1	GWB	P-5	9'-0"	FRP 48" A.F.F.	108
109	HALLWAY	CONCRETE	SEALER	B-1	FACTORY	GWB	P-1/FRP-1	GWB	P-1/FRP-1	GWB	P-1/FRP-1	GWB	P-1/FRP-1	SACT-1	FACTORY	10'-0"	FRP 48" A.F.F.	109
110	FIRE PUMP	CONCRETE	SEALER	B-1	FACTORY	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	EXPOSED	FACTORY	12'-7"		110
111	WARM VEHICLE STORAGE	CONCRETE	SEALER			METAL PANEL	FACTORY	METAL PANEL	FACTORY	METAL PANEL	FACTORY	METAL PANEL	FACTORY	EXPOSED	FACTORY	25'-6"		111
112	(E)WARM VEHICLE STORAGE 1	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)26'-0"		112
113	(E)WARM VEHICLE STORAGE 2	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)26'-0"		113
114	MECHANICAL	CONCRETE	SEALER	B-1	FACTORY	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	EXPOSED	P-5	13'-6"		114
115	MEZZANINE	CONCRETE	SEALER	B-1	FACTORY	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	EXPOSED	P-5	12'-6"	GUARDRAILS P-5	115
116	VESTIBULE	CONCRETE	SEALER	B-1	FACTORY	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	EXPOSED	P-5	10'-0"		116
ST1	STAIR 1	R-1	FACTORY	B-1	FACTORY	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	SACT-1	FACTORY	10'-0"	HAND/GUARDRAILS P-5	ST1
ST2	STAIR 2	CONCRETE	SEALER		FACTORY	MLP-1	FACTORY	GWB/MLP-1	FACTORY	GWB/MLP-1	FACTORY	MLP-1	FACTORY	EXPOSED	P-5	43'-10"	HAND/GUARDRAILS P-5	ST2
ST3	STAIR 3	CONCRETE	SEALER		FACTORY	GWB/MLP-1	FACTORY	GWB/MLP-1	FACTORY	GWB/MLP-1	FACTORY	GWB/MLP-1	FACTORY	EXPOSED	P-5	43'-10"	HAND/GUARDRAILS P-5	ST3
ST4	STAIR 4	CONCRETE	SEALER		FACTORY	GWB/MLP-1	FACTORY	GWB/MLP-1	FACTORY	MLP-1	FACTORY	MLP-1	FACTORY	EXPOSED	P-5	43'-10"	HAND/GUARDRAILS P-5	ST4
EL1	ELEVATOR CAB	WM-1	FACTORY	B-1	FACTORY	-	FACTORY	-	FACTORY	-	FACTORY	-	FACTORY	-	FACTORY	-		EL1

REV	DATE	DESCRIPTION	BY

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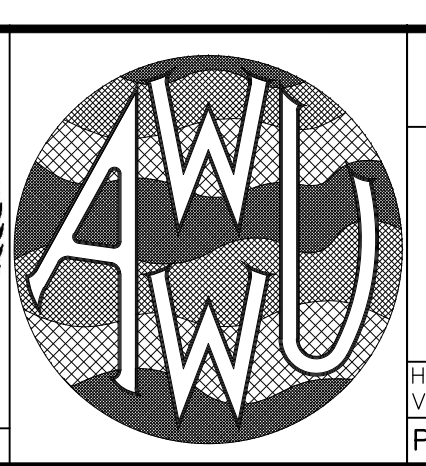
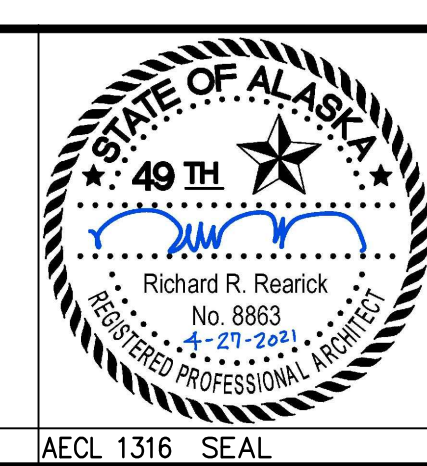
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CONSULTANT



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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

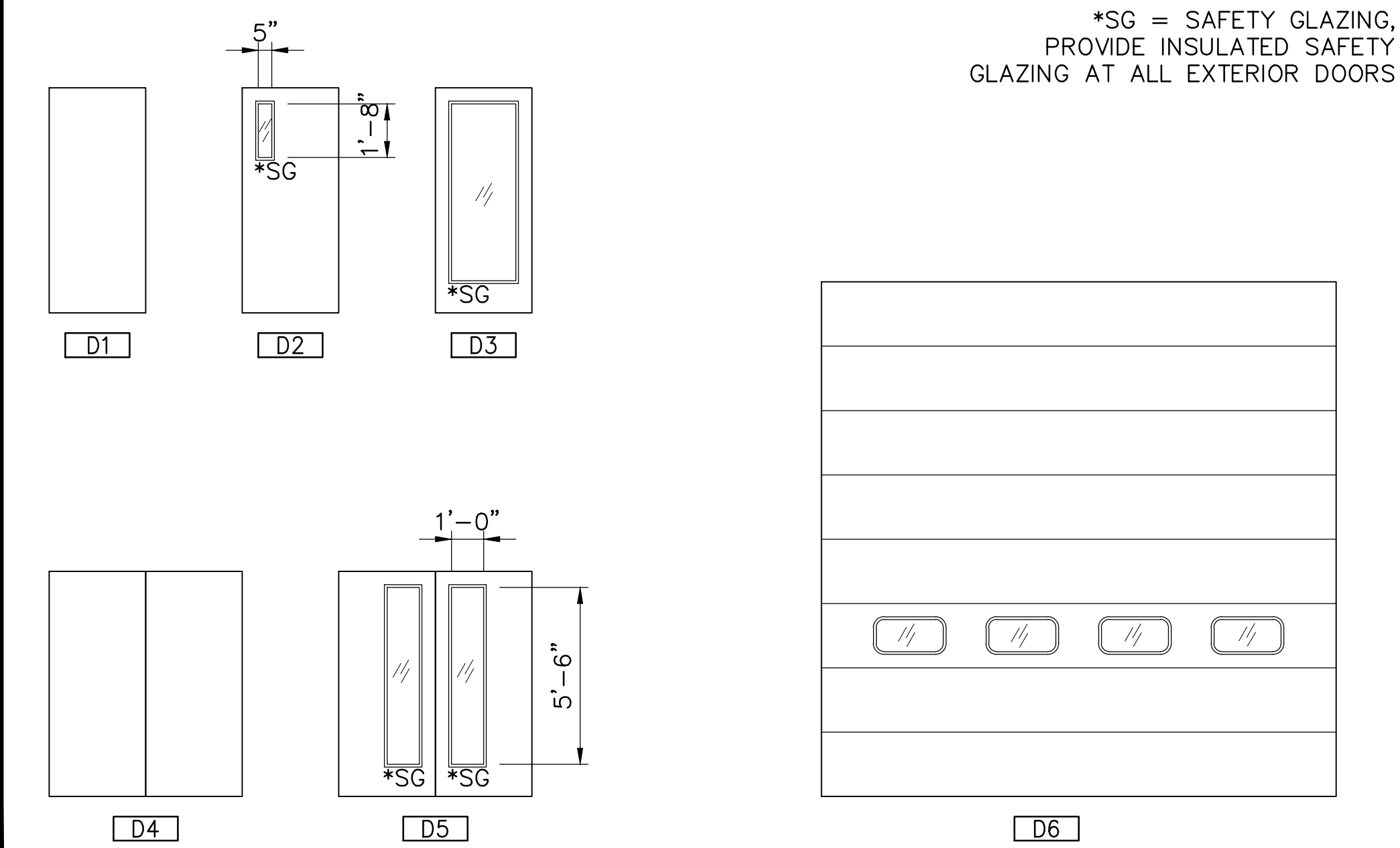
**FINISH LEGEND,
INTERIOR FINISH SCHEDULE-
FIRST FLOOR/MEZZANINE/STAIRS**

DWG **A8.1**

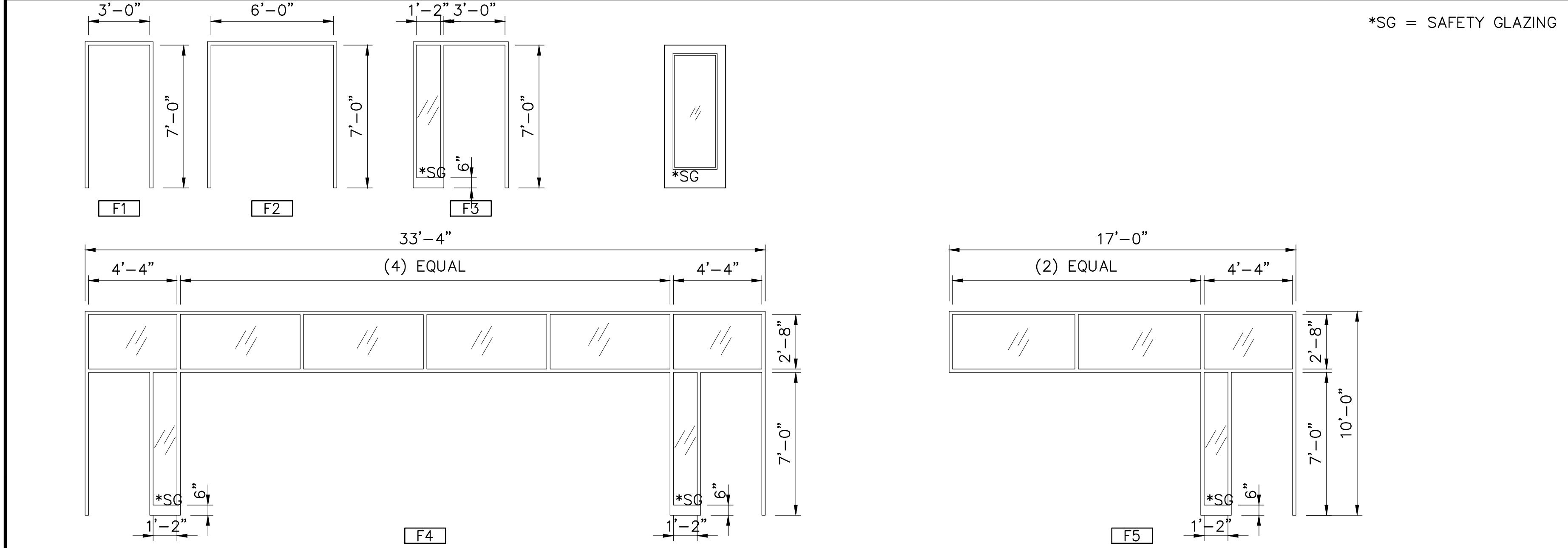
HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

SHEET 136 of 288

DOOR TYPES



FRAME TYPES



DOOR SCHEDULE – FIRST FLOOR / MEZZANINE / STAIRS

DOOR NUMBER	DOORS				FRAMES			DETAIL NUMBER			FIRE RATING	HW GROUP	ACCESS CONTROL	REMARKS	DOOR NUMBER		
	WIDTH	HEIGHT	THICK	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD						JAMB	SILL
101A	(PR) 3'-0"	7'-0"	1 3/4"	D5	INSULATED METAL	P-3	F2	INSULATED METAL	P-4	1/A6.1	2/A6.1	3/A6.1			YES		101A
101B	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.1	11/A6.1	-	90 MINUTE	HW-23		MAGNETIC HOLD OPEN	101B
101C	3'-0"	7'-0"	1 3/4"	D2	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	4/A6.2	5/A6.2	-		HW-03	YES		101C
101D	3'-0"	7'-0"	1 3/4"	D2	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.1	11/A6.1	-	90 MINUTE	HW-24	YES		101D
101E	(PR) 3'-0"	7'-0"	1 3/4"	D5	INSULATED METAL	P-3	F2	INSULATED METAL	P-4					HW-27			101E
102	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-04			102
103	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-05			103
104	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-06			104
106	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	3/A6.2		HW-05			106
107	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-22			107
108	3'-0"	7'-0"	1 3/4"	D2	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-07			108
109A	3'-0"	7'-0"	1 3/4"	D2	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	7/A6.2	8/A6.2	-		HW-03	YES		109A
109B	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.1	11/A6.1	-	90 MINUTE	HW-23		MAGNETIC HOLD OPEN	109B
109C	3'-0"	7'-0"	1 3/4"	D2	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.1	11/A6.1	-	90 MINUTE	HW-24	YES		109C
110	3'-0"	7'-0"	1 3/4"	D1	INSULATED METAL	P-3	F1	INSULATED METAL	P-4	4/A6.1	5/A6.1	3/A6.1	60 MINUTE	HW-08	YES		110
111A	3'-0"	7'-0"	1 3/4"	D2	INSULATED METAL	P-3	F1	INSULATED METAL	P-4	7/A6.1	8/A6.1	3/A6.1		HW-08	YES		111A
111B	3'-0"	7'-0"	1 3/4"	D2	INSULATED METAL	P-3	F1	INSULATED METAL	P-4	7/A6.1	8/A6.1	3/A6.1		HW-08	YES		111B
111C	3'-0"	7'-0"	1 3/4"	D2	INSULATED METAL	P-3	F1	INSULATED METAL	P-4	7/A6.1	8/A6.1	3/A6.1		HW-08	YES		111C
111D	3'-0"	7'-0"	1 3/4"	D2	INSULATED METAL	P-3	F1	INSULATED METAL	P-4	7/A6.1	8/A6.1	3/A6.1		HW-08	YES		111D
111E	3'-0"	7'-0"	1 3/4"	D2	INSULATED METAL	P-3	F1	INSULATED METAL	P-4	7/A6.1	8/A6.1	3/A6.1		HW-08	YES		111E
115A	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-09			115A
115B	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-09			115B
ST1A	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-17			ST1A
ST2A	3'-0"	7'-0"	1 3/4"	D2	INSULATED METAL	P-3	F1	INSULATED METAL	P-4	7/A6.1	8/A6.1	3/A6.1		HW-18	YES		ST2A
ST2B	3'-0"	7'-0"	1 3/4"	D2	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	1/A6.2	2/A6.2	-	60 MINUTE	HW-19			ST2B
ST2C	3'-0"	7'-0"	1 3/4"	D2	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	4/A6.2	5/A6.2	-	60 MINUTE	HW-19			ST2C
ST3A	3'-0"	7'-0"	1 3/4"	D2	INSULATED METAL	P-3	F1	INSULATED METAL	P-4	4/A6.1	5/A6.1	3/A6.1	60 MINUTE	HW-18	YES		ST3A
ST3B	3'-0"	7'-0"	1 3/4"	D2	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	4/A6.2	5/A6.2	-	60 MINUTE	HW-19			ST3B
ST3C	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	4/A6.2	5/A6.2	-	60 MINUTE	HW-20			ST3C
ST3D	3'-0"	7'-0"	1 3/4"	D2	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	4/A6.2	5/A6.2	-	60 MINUTE	HW-19			ST3D
ST3E	3'-0"	7'-0"	1 3/4"	D2	INSULATED METAL	P-3	F1	INSULATED METAL	P-4	4/A6.1	5/A6.1	12/A6.3		HW-21			ST3E
ST4A	3'-0"	7'-0"	1 3/4"	D2	INSULATED METAL	P-3	F1	INSULATED METAL	P-4	7/A6.1	8/A6.1	3/A6.1		HW-18	YES		ST4A
ST4B	3'-0"	7'-0"	1 3/4"	D2	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	1/A6.2	2/A6.2	-	60 MINUTE	HW-19			ST4B
ST4C	3'-0"	7'-0"	1 3/4"	D2	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	4/A6.2	5/A6.2	-	60 MINUTE	HW-19			ST4C
OH1	16'-0"	16'-0"	3"	D6	FACTORY	FACTORY		FACTORY	FACTORY	6/A6.1	9/A6.1	12/A6.1		HW-01			OH1
OH2	16'-0"	16'-0"	3"	D6	FACTORY	FACTORY		FACTORY	FACTORY	6/A6.1	9/A6.1	12/A6.1		HW-01			OH2
OH3	16'-0"	16'-0"	3"	D6	FACTORY	FACTORY		FACTORY	FACTORY	6/A6.1	9/A6.1	12/A6.1		HW-01			OH3
OH4	16'-0"	16'-0"	3"	D6	FACTORY	FACTORY		FACTORY	FACTORY	6/A6.1	9/A6.1	12/A6.1		HW-01			OH4

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

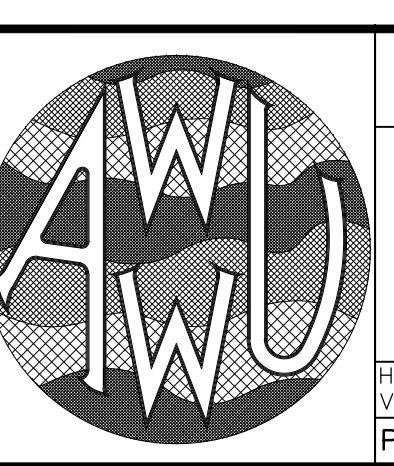
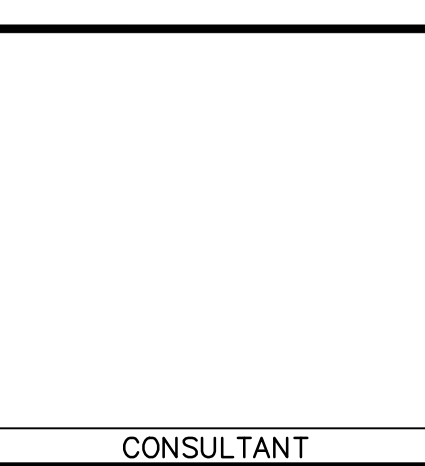
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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

DOOR SCHEDULE -
FIRST FLOOR / MEZZANINE / STAIRS
DOOR TYPES, FRAME TYPES

DWG
A8.3

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

SHEET 138 of 288

DOOR SCHEDULE – SECOND FLOOR

DOOR NO.	DOORS					FRAMES				DETAIL NUMBER			FIRE RATING	HARDWARE GROUP	ACCESS CONTROL	REMARKS	DOOR NO.
	WIDTH	HEIGHT	THICK	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL					
202	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	6/A6.2		HW-04			202
203	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	6/A6.2		HW-04			203
204	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	9/A6.2		HW-05			204
205	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	9/A6.2		HW-05			205
206A	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-11			206A
206B	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-11			206B
206C	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-11			206C
207	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-10	YES		207
208	(PR) 3'-0"	7'-0"	1 3/4"	D4	HOLLOW METAL	P-3	F2	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-12			208
209A	(PR) 3'-0"	7'-0"	1 3/4"	D4	HOLLOW METAL	P-3	F2	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-13	YES		209A
209B	(PR) 3'-0"	7'-0"	1 3/4"	D4	HOLLOW METAL	P-3	F2	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-13	YES		209B
210A	(PR) 3'-0"	7'-0"	1 3/4"	D4	HOLLOW METAL	P-3	F2	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-13	YES		210A
210B	(PR) 3'-0"	7'-0"	1 3/4"	D4	HOLLOW METAL	P-3	F2	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-13	YES		210B
211	(PR) 3'-0"	7'-0"	1 3/4"	D4	HOLLOW METAL	P-3	F2	HOLLOW METAL	P-4	10/A6.2	11/A6.2	6/A6.2		HW-12			211
212	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-11			212
213	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	6/A6.2		HW-04			213
214	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	6/A6.2		HW-14			214
215A	3'-0"	7'-0"	1 3/4"	D2	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-14			215A
215B	3'-0"	7'-0"	1 3/4"	D2	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-25			215B
215C	3'-0"	7'-0"	1 3/4"	D2	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-26			215C
216	(PR) 3'-0"	7'-0"	1 3/4"	D4	HOLLOW METAL	P-3	F2	HOLLOW METAL	P-4	10/A6.2	11/A6.2	6/A6.2		HW-12			216
217	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4			-		HW-10	YES		217
218A	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	6/A6.2		HW-11			218A
218B	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	6/A6.2		HW-11			218B
219A	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-11			219A
219B	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-11			219B
220A	3'-0"	7'-0"	1 3/4"	D3	HOLLOW METAL	P-3	F4	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-11			220A
220B	3'-0"	7'-0"	1 3/4"	D3	HOLLOW METAL	P-3	F4	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-16			220B
221	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-11			221
222	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-11			222
223	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-11			223
224	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-11			224
225	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-11			225
226	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-11			226
227A	3'-0"	7'-0"	1 3/4"	D3	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-15			227A
227B	3'-0"	7'-0"	1 3/4"	D3	HOLLOW METAL	P-3	F5	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-14			227B
227C	3'-0"	7'-0"	1 3/4"	D3	HOLLOW METAL	P-3	F5	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-14			227C
227D	3'-0"	7'-0"	1 3/4"	D3	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-15			227D
228A	3'-0"	7'-0"	1 3/4"	D3	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-10	YES		228A
228B	3'-0"	7'-0"	1 3/4"	D3	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-10	YES		228B
228C	3'-0"	7'-0"	1 3/4"	D3	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	12/A6.2		HW-10	YES		228C
229	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-11			229
230	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-11			230
231	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-11			231
232	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-11			232
233	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-11			233
234	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-11			234
235	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-11			235
236	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-11			236
237	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-11			237
238	3'-0"	7'-0"	1 3/4"	D1	HOLLOW METAL	P-3	F3	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-11			238
239	3'-0"	7'-0"	1 3/4"	D2	HOLLOW METAL	P-3	F1	HOLLOW METAL	P-4	10/A6.2	11/A6.2	-		HW-10	YES		239

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

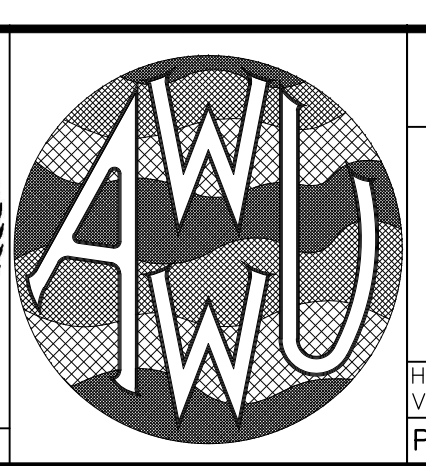
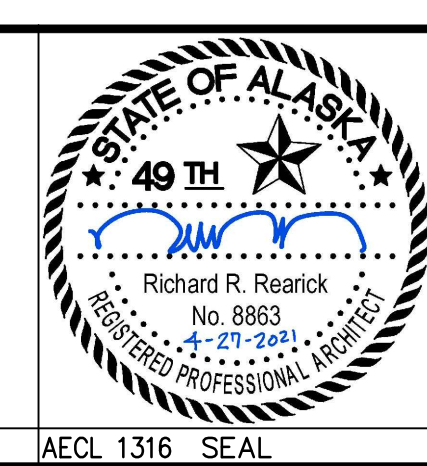
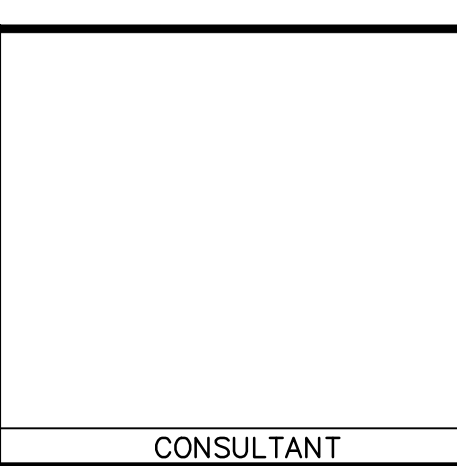
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MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

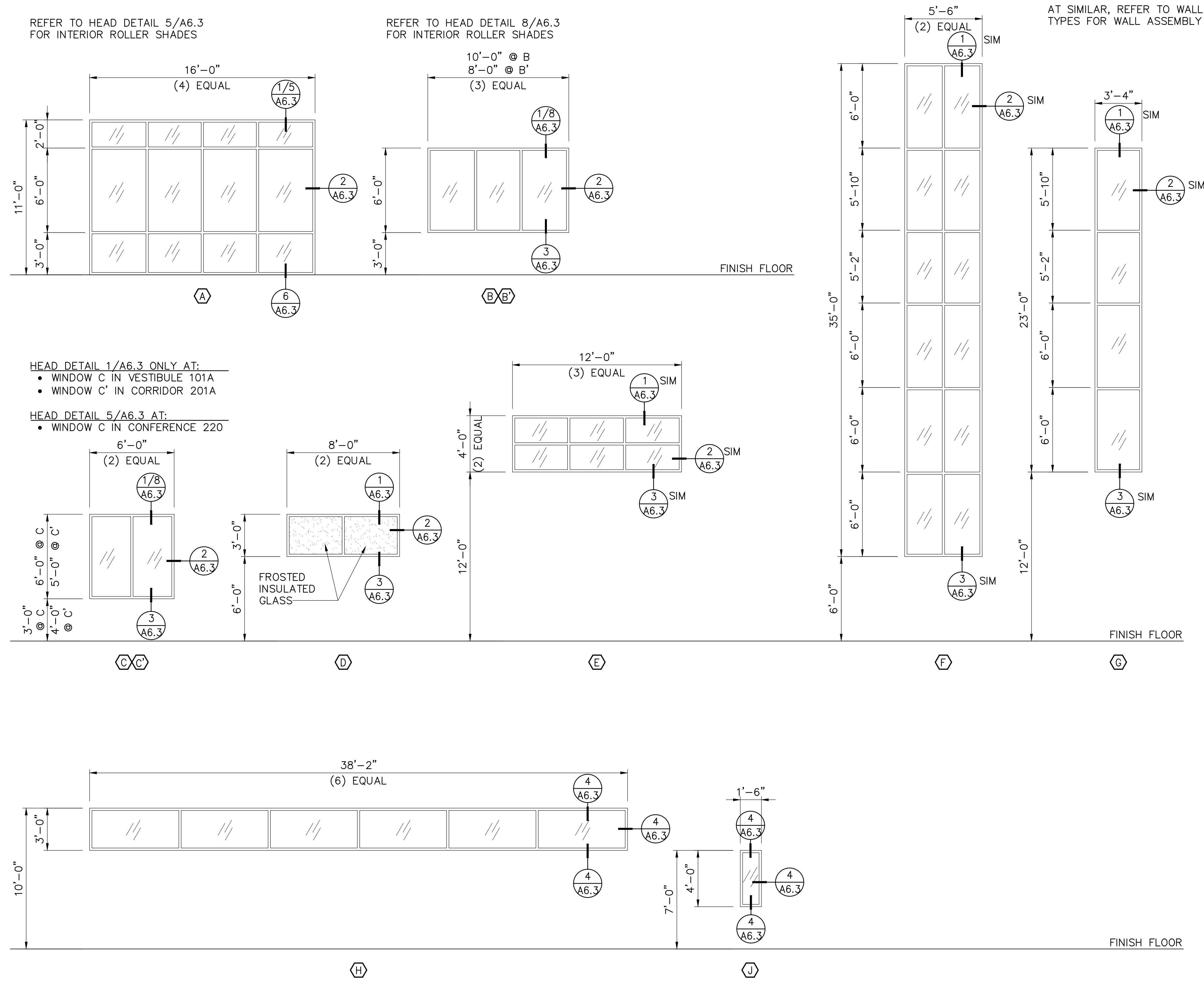
DOOR SCHEDULE-SECOND FLOOR

DWG **A8.4**

HORIZ. SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT. SCALE: N/A
 PROJ. ID.: WW.H7775

SHEET 139 of 288

WINDOW TYPES



AWWU PLAN SET
NO. 10771

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

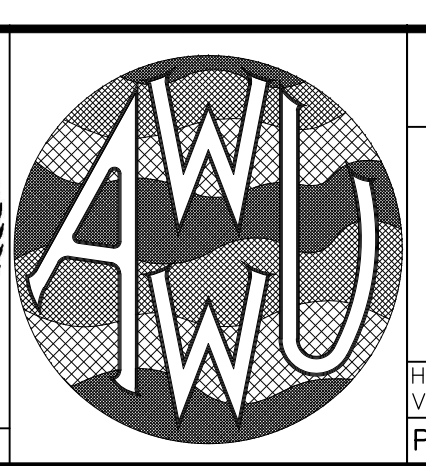
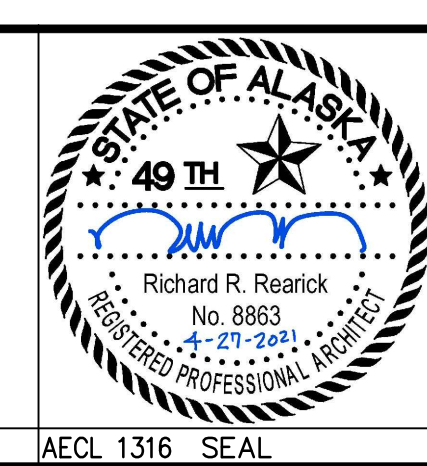
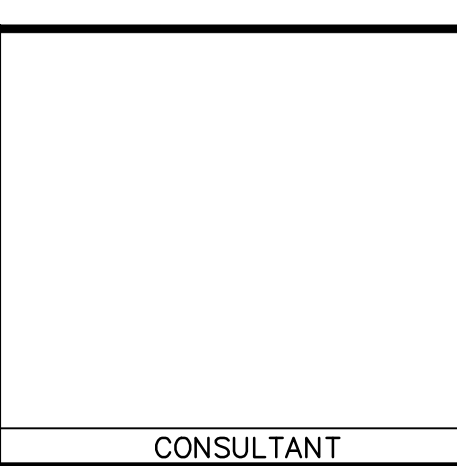
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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

WINDOW TYPES

DWG **A8.5**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

CONSULTANT AECL 1316 SEAL

SHEET 140 of 288

STRUCTURAL NOTES

SCOPE OF WORK:

THE PROJECT CONSISTS OF AN APPROXIMATELY 180' X 176' VEHICLE WARM STORAGE AND OFFICE BUILDING ADDITION TO THE EXISTING AWWU KING STREET WARM VEHICLE STORAGE BUILDING.

LOCATION: 501 E. 94TH STREET, ANCHORAGE AK
 LATITUDE: 61.1364 N LAT. LONGITUDE: -149.8748 W LONG.

1. DESIGN LOADS

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE (IBC 2018) ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

RISK CATEGORY: III - UTILITY

LIVE LOADS:

OFFICE	50 PSF, 2,000# POINT
PARTITION	15 PSF
ASSEMBLY	100 PSF
CORRIDORS / EXITS	80 PSF OR 2,000# POINT
MECHANICAL/ LIGHT STORAGE	125 PSF
IT RACKS	300 PSF FOOTPRINT
VEHICLE BAY : DESIGN VEHICLE	H20-44 32,000 LB AXLE LOAD
LOCKER ROOM/STORAGE	125 PSF

SNOW LOADS: (IBC SECTION 1603.1.3)
 GROUND SNOW LOAD, $P_g =$ 50 PSF
 COEFFICIENT OF EXPOSURE, $C_e =$ 1.0
 SNOW IMPORTANCE FACTOR, $I_s =$ 1.1
 THERMAL COEFFICIENT, $C_t =$ 1.0
 DESIGN ROOF SNOW LOAD, $P_f =$ 40 PSF MIN.(MOA AMEND)
 SNOW DRIFT LOADS: (REFER DETAIL 1/SO.2)

RAIN LOAD: (IBC SECTION 1611)
 100 YEAR RAINFALL INTENSITY 0.7 INCHES/HR
 RAIN LOAD, $R =$ 15.6 PSF

WIND LOADS: (ASCE 7-16)
 BASIC WIND SPEED (ULTIMATE), $V_{ult} =$ 150 MPH (MOA MAP)
 IBC 1609.3.1 CONVERSION, $V_{asd} =$ 116 MPH
 WIND IMPORTANCE FACTOR, $I_w =$ (INCLUDED IN WIND SPEED)
 EXPOSURE CLASSIFICATION = EXP. C
 TOPOGRAPHICAL FACTOR, $K_{zt} =$ 1.0
 INTERNAL PRESSURE COEFFICIENT, $G_{cpi} =$ 0.55, (PART. ENCLOSED)
 ULTIMATE DESIGN WIND PRESSURE, $q_z =$ 52.9 PSF
 ALLOWABLE WIND PRESSURE, $0.6 \cdot q_z =$ 31.7 PSF

COMPONENT AND CLADDING PRESSURES:
 (20 SF TRIB AREA, @ULTIMATE LEVELS, ALLOWABLE EQUALS 0.6X ULT.)
 WALL OUTWARD: ZONE 4: -57 PSF, ZONE 5: -68 PSF
 WALL INWARD: ZONE 4,5: 60 PSF

ROOF UPLIFT PRESSURES:(REFER TO WIND UPLIFT DIAGRAM 2/SO.2)
 DOWNWARD PRESSURES: ALL ZONES: 23.7 PSF

PRESSURES SHALL BE ADJUSTED FOR THE TRIBUTARY AREA OF THE COMPONENT IN ACCORDANCE WITH ASCE 7.

FM GLOBAL: WALL PANEL AND ROOFING SYSTEMS SHALL ALSO MEET THE REQUIREMENTS OF THE FM GLOBAL APPROVED SYSTEM UTILIZED.

SEISMIC LOADING: (IBC SECTION 1615)
 SPECTRAL RESPONSE COEFFICIENTS
 SHORT PERIOD RESPONSE ACCELERATION, $S_{ds} = 1.0g$
 1 SEC. PERIOD RESPONSE ACCELERATION, $S_{d1} = 0.77g$
 SEISMIC SITE CLASS = D
 SEISMIC DESIGN CATEGORY = D
 SEISMIC IMPORTANCE FACTOR, $I_a =$ 1.25
 BASIC SEISMIC FORCE RESISTANCE SYSTEM = BUCKLING RESTRAINED BRACED FRAME (BRB)
 RESPONSE MODIFICATION FACTOR, $R =$ 8
 OVERSTRENGTH FACTOR, $\Omega_o =$ 2.5
 DEFLECTION AMPLIFICATION FACTOR, $C_d =$ 5
 SEISMIC RESPONSE COEFFICIENT, $C_s =$ 0.156
 SEISMIC WEIGHT, $W =$ 4277 KIPS
 DESIGN BASE SHEAR, $V =$ 668 KIPS

2. DEFERRED SUBMITTALS

A. THE FOLLOWING ITEMS SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER AND SUBMITTED FOR OWNER AND MUNICIPALITY OF

ANCHORAGE PLAN REVIEW APPROVAL.

BUCKLING RESTRAINED BRACE (BRB) DESIGN AND CONNECTIONS.
 STEEL BAR JOIST AND JOIST GIRDER DESIGN.
 EXTERIOR COLD FORMED METAL WALL FRAMING.
 WALL PANEL SYSTEM MECHANICAL ATTACHMENT
 ROOFING SYSTEM MECHANICAL ATTACHMENTS.
 SEISMIC ANCHORAGE OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL EQUIPMENT.

ALL DEFERRED SUBMITTALS SHALL BE SUBMITTED, REVIEWED, AND APPROVED PRIOR TO SUBMITTAL OF SHOP DRAWINGS, REVIEW OR APPROVAL OF ASSOCIATED SUPPORTING CONSTRUCTION. GENERAL CONTRACTOR TO PROVIDE COORDINATION BETWEEN SUBCONTRACTOR SUBMITTALS.

3. GENERAL

A. ALL WORK IS TO BE IN ACCORDANCE WITH THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), MUNICIPALITY OF ANCHORAGE CODE AMENDMENTS, AND GOOD STANDARD PRACTICE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THESE DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL SHEETS FOR OPENING SIZES, PROPER LOCATION OF BEARING WALLS AND BEAMS, AND LOCATION OF MECHANICAL AND ELECTRICAL ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE ADDITIONAL FRAMING AS REQUIRED TO PERMIT PROPER INSTALLATION OF MECHANICAL, ELECTRICAL, AND PLUMBING PENETRATIONS. REFER TO SPECIFICATIONS FOR DETAILED MATERIAL AND EXECUTION REQUIREMENTS.
 B. PRIOR TO STARTING ANY WORK OR FABRICATION, THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AMONG THE DRAWINGS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, SITE CONDITIONS, SPECIFICATIONS, AND THESE NOTES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER VIA RFI.
 C. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL OSHA AND DOSH SAFETY STANDARDS. THE CONTRACTOR IS IN CHARGE OF ALL SAFETY MATTERS ON AND AROUND THE JOB SITE. PROVIDE TEMPORARY ERECTION BRACING AND SHORING AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF THE CONSTRUCTION.

4. QUALITY ASSURANCE

A. **STATEMENT OF SPECIAL INSPECTION:** SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH IBC SECTION 1704. THE OWNER SHALL ENGAGE THE SERVICES OF AN INDEPENDENT, QUALIFIED SPECIAL INSPECTOR. REFER TO SHEET S0.5 FOR SCHEDULES OF REQUIRED STRUCTURAL SPECIAL INSPECTIONS. REFER TO SHEET C0.2 FOR SCHEDULE OF REQUIRED SPECIAL INSPECTIONS AND TESTS FOR SOILS.
 B. **REPORTING:** THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS UPON INSPECTION TO THE CONTRACTOR, BUILDING OFFICIAL, OWNER'S REPRESENTATIVE, AND THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. WORK IN NON-COMFORMANCE SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR. IF WORK IS NOT CORRECTED, BRING TO THE ATTENTION OF THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT DOCUMENTING THE SPECIAL INSPECTIONS PERFORMED, COMPLETION OF THE WORK, AND THE CORRECTION OF ANY NOTED NON-COMFORMITIES.
 C. **QUALITY CONTROL:** SPECIAL INSPECTION IS IN ADDITION TO THE CONTRACTOR'S REQUIRED QUALITY CONTROL INSPECTIONS AND TESTING. THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING SHALL OCCUR PRIOR TO OR CONCURRENT WITH THE SPECIAL INSPECTION AND QUALITY CONTROL REPORTS SHALL BE AVAILABLE TO THE SPECIAL INSPECTOR.
 D. **STATEMENT OF RESPONSIBILITY:** THE CONTRACTOR SHALL SUBMIT A STATEMENT OF RESPONSIBILITY FOR SPECIAL INSPECTIONS TO THE OWNER, BUILDING DEPARTMENT, AND ENGINEER ACKNOWLEDGING THE CONTRACTOR'S AWARENESS OF THE SPECIAL INSPECTION REQUIREMENT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S SPECIAL INSPECTOR TO ENSURE THAT ALL COMPONENTS OF THE WORK REQUIRING SPECIAL INSPECTION ARE INSPECTED IN ACCORDANCE WITH THIS STATEMENT OF SPECIAL INSPECTIONS.
 E. **STRUCTURAL OBSERVATION:** THE OWNER SHALL EMPLOY THE REGISTERED DESIGN PROFESSIONAL TO PERFORM STRUCTURAL OBSERVATION IN ACCORDANCE WITH IBC SECTION 1704.6.2.
 F. CONTRACTOR SHALL COORDINATE WITH AND CONFORM TO ALL PERMIT REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, MOA BUILDING SAFETY STRUCTURAL INSPECTION REQUIREMENTS AND THE SPECIAL INSPECTIONS, TESTS, AND OBSERVATIONS NOTED IN THESE PROJECT DOCUMENTS.
 5. **FOUNDATIONS**
 A. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING REPORT ENTITLED, "GEOTECHNICAL ENGINEERING REPORT, KING STREET CAMPUS-WIDE IMPROVEMENTS, ANCHORAGE, ALASKA", DATED DECEMBER 2020, DEVELOPED BY SHANNON & WILSON.

B. FOUNDATION DESIGN IS BASED ON A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 4,000 PSF FOR PERIMETER FOOTINGS AND ISOLATED PAD FOUNDATIONS. ALLOWABLE SHORT TERM SOIL BEARING PRESSURE EQUALS 5300 PSF. ALLOWABLE LATERAL SOIL BEARING PRESSURE EQUALS 225 PCF AND A COEFFICIENT OF FRICTION OF 0.4 IS ASSUMED AT THE BASE OF THE FOUNDATIONS.
 C. CONCRETE FOOTINGS AND SLABS SHALL BE PLACED OVER A MINIMUM OF 2'-0" OF NON-FROST SUSCEPTIBLE (NFS) GRAVEL FILL AND AS DETAILED ON THE DRAWINGS. NFS FILL SHALL BE TYPE IIA CLASSIFIED FILL PER MOA STANDARD SPECIFICATIONS (MASS). ALL NFS GRAVEL FILL SHALL BE COMPACTED TO 95% OF MAXIMUM PROCTOR DENSITY.
 D. REMOVE ALL LOOSE FILL AND ORGANIC MATERIAL BELOW THE BUILDING FOOTPRINT TO THE EXTENT DEPICTED ON THE CIVIL DRAWINGS. BACKFILL WITH NFS GRAVEL OR APPROVED STRUCTURAL FILL. ALL FILL SHALL BE COMPACTED TO 95% OF MAXIMUM PROCTOR DENSITY.

6. CONCRETE

A. INTERIOR CONCRETE FOR METAL DECK COMPOSITE FLOOR SYSTEMS SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 4,000 PSI AND A MAXIMUM WATER TO CEMENT RATIO OF 0.5.
 B. EXTERIOR, FOUNDATION, AND SLAB-ON-GRADE CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH, F'_c OF 5,000 PSI AND A MAXIMUM WATER TO CEMENT RATIO EQUAL TO 0.45.
 C. MAXIMUM UN-PLASTICIZED SLUMP SHALL BE 4 INCHES. FOR EXTERIOR CONCRETE, ENTRAIN AIR IN ACCORDANCE WITH ACI 318, TABLE 19.3.3.1 FOR EXPOSURE CATEGORY F3 AND MAXIMUM AGGREGATE SIZE UTILIZED. CONCRETE THAT WILL BE LEFT EXPOSED TO FREEZE/THAW IN WET CONDITIONS DURING CONSTRUCTION SHALL BE AIR ENTRAINED. CONCRETE MIX DESIGNS SHALL BE STAMPED BY AN ENGINEER LICENSED IN THE STATE OF ALASKA.
 D. REINFORCING STEEL FOR CONCRETE: SHALL BE ASTM A615, GRADE 60 (60,000 PSI), PLAIN.
 E. CONCRETE COVER OVER REINFORCEMENT SHALL BE AS DETAILED OR IN ACCORDANCE WITH ACI 318. BAR LAP SHALL BE ACCORDANCE WITH ACI 318 FOR CLASS B SPLICE (54 BAR DIAMETER MINIMUM), OR AS DETAILED, IF MORE RESTRICTIVE. MECHANICAL SPLICES ARE ACCEPTABLE AND SHALL HAVE CAPACITY OF 125% OF THE STRENGTH OF THE REBAR. WELDING OF REINFORCEMENT IS PROHIBITED. MINIMUM CORNER BAR EQUALS #5 REBAR AT 3'-0"x3'-0" UNLESS DETAILED OTHERWISE. PROVIDE 135 DEGREE BEND PLUS 6 BAR DIAMETER TAIL AT ALL TIE STEEL. WELDING OF REINFORCEMENT IS PROHIBITED.
 F. SUBMIT POUR PLAN PRIOR TO PLACEMENT CLEARLY INDICATING ALL CONSTRUCTION JOINT LOCATIONS. CONSTRUCTION JOINTS SHALL BE LOCATED AT POINTS OF MINIMUM STRESS AND SHALL BE APPROVED BY THE PROJECT ENGINEER. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE ROUGHENED BY SAND BLASTING OR WITH A CHIPPING HAMMER OR BY ANY OTHER APPROVED METHOD WHICH WILL REMOVE LAITANCE, LOOSE PARTICLES, OR AGGREGATE, OR DAMAGED CONCRETE AT THE SURFACE AND PRODUCE A ROUGH JOINT SURFACE. CLEAN THE SURFACE OF THE JOINT AND APPLY BONDING AGENT PRIOR TO PLACEMENT OF ADJACENT CONCRETE.
 G. ALL CONCRETE WORK, MIX DESIGN, MIXING, TRANSPORTATION, FORMING, PLACING, CURING, TESTING, ETC., SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF ACI.
 H. REBAR DOWELS TO EXISTING: DOWEL NEW CONSTRUCTION TO EXISTING USING REBAR DOWELS. LOCATE EXISTING REBAR PRIOR TO DRILLING. DO NOT DRILL THROUGH EXISTING REBAR. DRILL TO A MINIMUM DEPTH OF 8" (REFER TO DRAWINGS) INTO EXISTING CONCRETE AND INSTALL NEW REINFORCEMENT IN HOLES USING HILTI HIT RE-500 V3 EPOXY ADHESIVE. INSTALL DOWELS IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH THE MANUFACTURER'S ICC ES APPROVAL CRITERIA.
 I. ADHESIVE ANCHORS: ADHESIVE ANCHORS IN LOWER LEVEL CONCRETE SLABS SHALL BE 304 STAINLESS STEEL THREADED ANCHORS INSTALLED USING HILTI HIT RE-500 V3 EPOXY ADHESIVE OR EQUIVALENT. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH THE MANUFACTURER'S ICC ES APPROVAL CRITERIA.

7. STRUCTURAL STEEL

A. THE DESIGN, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL SHALL COMPLY WITH THE CODE OF STANDARD PRACTICE OF AISC.
 B. ALL STRUCTURAL STEEL SHALL BE ASTM A992 FOR WIDE FLANGE SECTIONS AND TEES, ASTM A36 FOR MISCELLANEOUS SECTIONS, A572 GR. 50 FOR STEEL PLATE, A500 GRADE C FOR HOLLOW STRUCTURAL STEEL TUBING, AND A53 GRADE B FOR STEEL PIPE. ANCHOR RODS SHALL BE ASTM F1554, GR 55, HOT DIPPED GALVANIZED.
 C. METAL TO METAL CONNECTIONS SHALL BE EQUAL TO STANDARD CONNECTIONS, OR AS DETAILED, USING ASTM F3125 GR A325 TYPE 1 HIGH STRENGTH BOLTS (BEARING TYPE CONNECTIONS). HIGH STRENGTH BOLTS SHALL BE PRETENSIONED AND INSTALLED WITH PROPERLY CALIBRATED WRENCHES, LOAD INDICATING WASHERS, TWIST-OFF BOLTS, OR TURN OF THE NUT METHOD USING MATCH-MARKING TECHNIQUE.

D. ALL FAYING SURFACES AT COLLECTOR CONNECTIONS SHALL HAVE CLASS A SURFACE PREPARATION.
 E. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE CURRENT CODE OF THE AMERICAN WELDING SOCIETY, MINIMUM WELD SHALL BE 3/16". USE AWS 5.1 E70XX ELECTRODES. ALL WELDERS SHALL BE CERTIFIED IN ACCORDANCE WITH AWS REQUIREMENTS.
 F. FABRICATE HOLLOW STRUCTURAL STEEL MEMBERS WITH END CAPS.
 G. FIELD MODIFICATION OF STRUCTURAL STEEL MEMBERS IS NOT PERMITTED WITHOUT PRIOR APPROVAL BY THE ENGINEER
 H. ALL EXTERIOR STRUCTURAL STEEL AND METAL FABRICATIONS AND INTERIOR STEEL BOLLARDS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123. ALL AREAS OF FIELD WELDING AND COATING DAMAGE SHALL RECEIVE COLD ZINC GALVANIZING. REFER TO ARCHITECTURAL FOR FINISH COATING REQUIREMENTS.
 I. METAL ROOF DECKING SHALL BE OF THE DEPTH AND GAUGE AS SHOWN ON THE DRAWINGS OR SHALL EQUAL 18 GAUGE, 1-1/2" DEEP, GALVANIZED TYPE B ROOF DECK AS MANUFACTURED BY VERCO MANUFACTURING INC. STEEL DECKING SHALL BE ICC CERTIFIED AND FM GLOBAL APPROVED. MINIMUM ALLOWABLE SHEAR CAPACITY EQUALS 2,063 PLF. METAL DECK SHALL BE WELDED TO EACH SUPPORT WITH SEVEN PUDDLE WELDS PER SHEET, MINIMUM SIDELAP FASTENING SHALL BE 1-1/2" LONG SEAM WELDS SPACED 12" O.C. WELDS AT DECK EDGES OR BOUNDARIES SHALL BE PUDDLE WELDS SPACED 12" O.C. UNLESS NOTED OTHERWISE. UPLIFT ZONE 2 AND ZONE 3 BOUNDARY, EDGE, AND LAP FASTENING SHALL BE SPACED AT 6" O.C. MAXIMUM. PUDDLE WELDS SHALL BE A MINIMUM OF 3/4" DIAMETER (1/2" EFFECTIVE). PUDDLE AND ARC SEAM WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3, SPECIFICATION FOR WELDING SHEET STEEL.
 J. COMPOSITE METAL FLOOR DECKING SHALL BE OF THE DEPTH AND GAUGE AS SHOWN ON THE DRAWINGS OR SHALL EQUAL 20 GAUGE, 1-1/2" DEEP, GALVANIZED TYPE B COMPOSITE FLOOR DECK AS MANUFACTURED BY VERCO MANUFACTURING INC. STEEL DECKING SHALL BE ICC CERTIFIED. MINIMUM ALLOWABLE DIAPHRAGM SHEAR CAPACITY EQUALS 3,052 PLF. ALL DECKS SHALL BE WELDED TO SUPPORTS WITH SEVEN PUDDLE WELDS PER SHEET, MINIMUM SIDELAP FASTENING SHALL BE 1-1/2" LONG SEAM WELDS SPACED 12" O.C. WELDS AT DECK EDGES OR BOUNDARIES SHALL BE PUDDLE WELDS SPACED 12" O.C. UNLESS NOTED OTHERWISE. PUDDLE WELDS SHALL BE A MINIMUM OF 3/4" DIAMETER (1/2" EFFECTIVE). PUDDLE AND ARC SEAM WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3, SPECIFICATION FOR WELDING SHEET STEEL.
 K. STEEL JOISTS AND JOIST GIRDERS SHALL BE OPEN WEB JOISTS, SJI TYPE K OR LH SERIES JOISTS MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STEEL JOIST INSTITUTE. STEEL JOISTS SHALL BE SIZED FOR THE LOADS, SPANS, AND DEFLECTION LIMITATIONS AS INDICATED ON THE DRAWINGS (REFER SHEET S1.1). UNLESS NOTED OTHERWISE, ENGINEER K AND LH SERIES JOISTS FOR THE MAXIMUM TABULAR DESIGN LOADS AS INDICATED IN THE SJI MANUAL. PROVIDE BRIDGING AT THIRD POINTS OF THE SPAN UNLESS OTHERWISE INDICATED ON THE DRAWINGS. STEEL JOISTS AND JOIST GIRDERS SHALL RECEIVE MANUFACTURER'S STANDARD (RED) SHOP PRIMER COATING.
 L. BUCKLING-RESTRAINED BRACES SHALL BE COREBRACE OR EQUIVALENT. BRACE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE BRACE BASED ON THE AREA A_{sc} SPECIFIED BY THE EOR. DESIGN BRACE, BRACE CONNECTION TO GUSSET, GUSSET PLATE, AND GUSSET TO COLUMN AND BEAM CONNECTIONS. BRACE DESIGN SHALL BE COMPLETED PRIOR TO AND USED TO DEVELOP THE STRUCTURAL STEEL SHOP DRAWINGS. REFER TO THE BRB SCHEDULE FOR DETAILED BRACE INFORMATION.

8. COLD FORMED METAL FRAMING

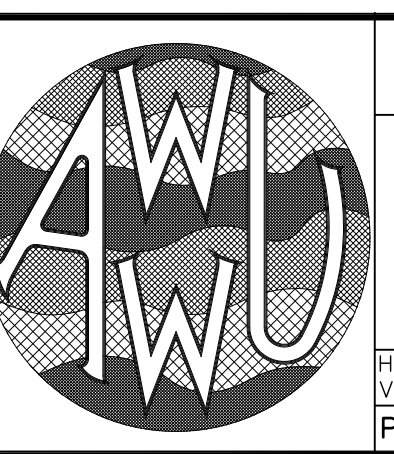
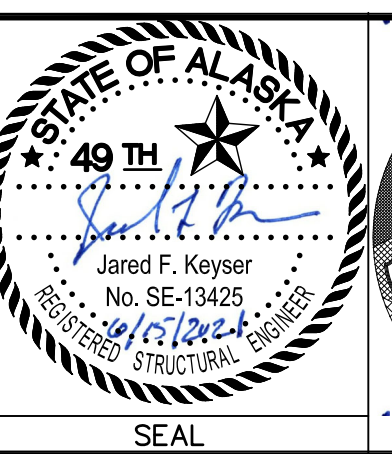
A. COLD FORMED METAL FRAMING SHALL BE AS MANUFACTURED BY CLARK WESTERN OR EQUIVALENT IN ACCORDANCE WITH THE CURRENT SSMA REQUIREMENTS AND DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
 B. EXTERIOR STRUCTURAL WALL FRAMING: LIGHT GAGE MEMBERS SHALL BE MINIMUM 1000S200-68, 50 KSI, 2" X 10" C-SHAPED METAL STUDS, 14 GAUGE (0.0713 IN THICK) UNLESS NOTED OTHERWISE ON THE DRAWINGS. TRACKS SHALL BE OF SIMILAR GAUGE TO STUD/JOIST UNLESS NOTED OTHERWISE. ALL STUD WALLS SHALL RECEIVE LATERAL WEB BRACING (BLOCKING, STRAPPING, OR CHANNELS) SPACED NO GREATER THAN 48 INCHES ON CENTER
 C. INTERIOR NON-LOAD BEARING METAL WALL AND CEILING FRAMING: STUDS SHALL BE 1-5/8 INCH WIDE, C-SHAPED METAL STUDS SIZED WITH DEPTH AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND GAUGE DETERMINED AS REQUIRED TO SUPPORT A 5 PSF LATERAL LOAD AND LIMIT DEFLECTION TO L/360 OF THE SPAN BASED ON THE HEIGHT AT THE INSTALLED LOCATION. MINIMUM GAUGE SHALL BE 20 GAUGE STRUCTURAL, 0.0346 MINIMUM DESIGN THICKNESS.
 D. PROVIDE ALL ACCESSORIES INCLUDING TRACKS, CLIPS, ANCHORS, FASTENING DEVICES, AND ALL OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
 E. ALL COMPONENTS SHALL BE FASTENED WITH WELDS, SELF TAPPING, OR SELF DRILLING SCREWS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. MINIMUM SCREW SIZE SHALL EQUAL #10.

AWWU PLAN SET NO. 10771

REV	DATE	DESCRIPTION	BY
1	6/8/21	MOA PLAN REVIEW	JFK
REVISIONS			

RECORD DRAWING		REUSE OF DOCUMENTS	
Note: To be filled out on original drawings upon project completion. 1. DATA PROVIDED BY: _____ This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed. CONTRACTOR: _____ DATE: _____ TITLE: _____ BY: _____ 2. DATA TRANSFERRED BY: _____ COMPANY: _____ DATE: _____		3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed. DATA TRANSFER CHECKED BY: _____ COMPANY: _____ DATE: _____ TITLE: _____ BY: _____	

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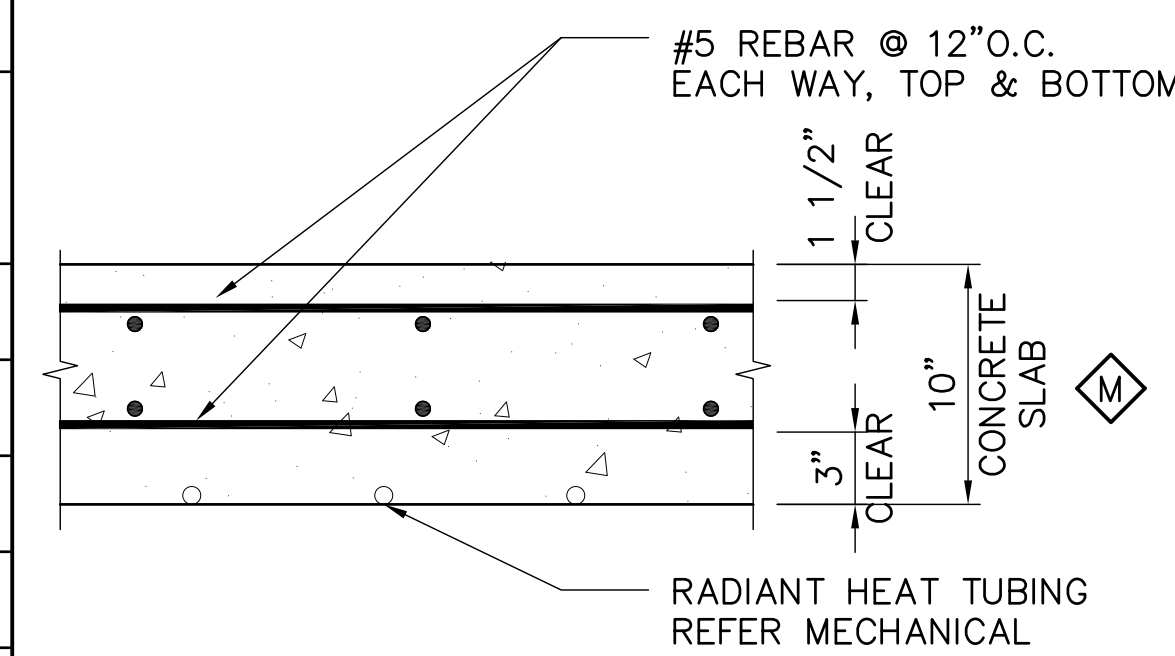
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		DWG
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT		
STRUCTURAL NOTES		S0.1
HORZ SCALE: N/A VERT SCALE: N/A	DATE: APRIL 2021 GRID: SW 2431	SHEET 141 of 288
PROJ. ID.: WW.H7775		

FOUNDATION & SLAB SCHEDULE

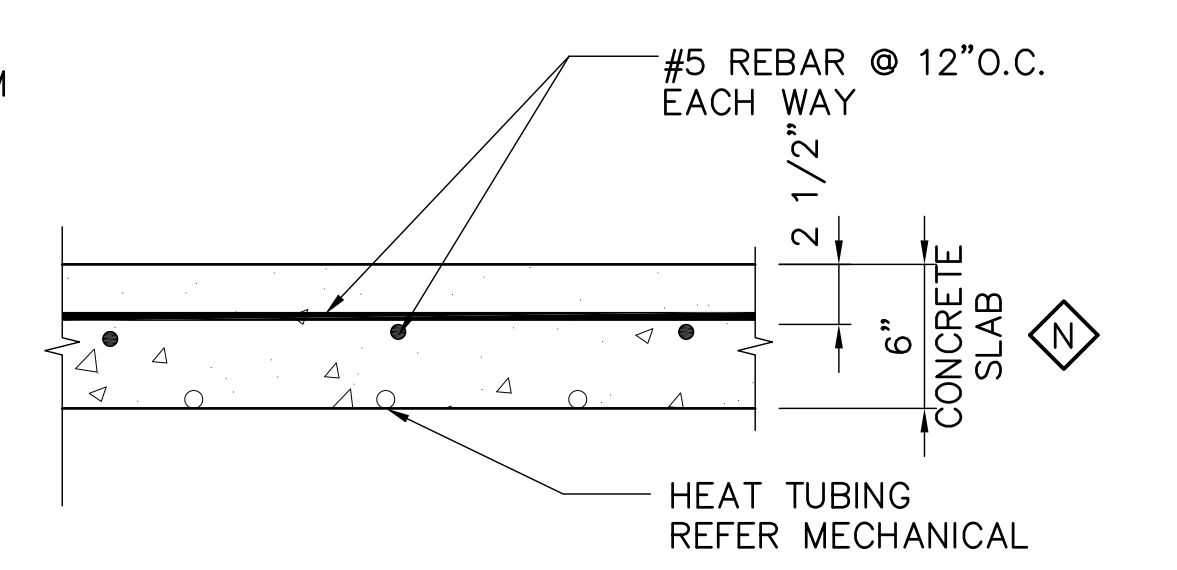
MARK	FOOTING			PLINTH / WALL			B.O. FTG ELEVATION	NOTES
	SIZE	DEPTH	REINFORCEMENT	WIDTH	DEPTH	REINFORCEMENT		
A	14'-0" X 14'-0"	2'-8"	(14) #9 EACH WAY TOP & BOTTOM	2'-6"	2'-6"	(12)#9 VERTICAL #4 TIES @ 6"O.C.	FIN. FLOOR -6'-8"	-
B	10'-0" X 10'-0"	2'-0"	(10) #7 EACH WAY TOP & BOTTOM	2'-6"	2'-9"	(14)#9 VERTICAL #4 TIES @ 6"O.C.	FIN. FLOOR -6'-0"	-
C	16'-0" X 62'-0"	3'-0"	#9 @8"O.C. EACH WAY TOP & BOTTOM	5'-0"	2'-9"	(20)#9 VERTICAL #4 TIES @ 6"O.C.	FIN. FLOOR -7'-0"	SINGLE FOOTING WITH 3 PLINTHS (2) 5'-0" WIDE END PLINTHS & (1) CENTER 7'-0" WIDE PLINTH REFER TO DETAIL FOR FOOTING REBAR LAYOUT
				7'-0"	2'-9"	(28)#9 VERTICAL #4 TIES @ 6"O.C.		
D	14'-0" X *4.3'-4" *41'-0" @ D'	3'-0"	#9 @6"O.C. LAT TOP&BOTTOM #9 @10"O.C. LONG TOP&BOTTOM	5'-0"	2'-9"	(20)#9 VERTICAL #4 TIES @ 6"O.C.	FIN. FLOOR -7'-0"	REFER TO DETAIL FOR FOOTING REBAR LAYOUT
E	4'-0" X 4'-0"	1'-0"	(5) #5 EACH WAY. TOP & BOTTOM	2'-6"	2'-6"	(12)#9 VERTICAL #4 TIES @ 6"O.C.	FIN. FLOOR -5'-0"	-
E'	4'-0" X 4'-0"	1'-0"	(5) #5 EACH WAY TOP & BOTTOM	2'-0"	0"	(10)#7 VERTICAL #4 X 6" SPIRAL.	FIN. FLOOR -5'-0"	EXTEND ENTRY PIER TO ELEVATION +0'-6"
F	8'-0" X 8'-0"	1'-6"	(8) #7 EACH WAY TOP & BOTTOM	2'-0"	2'-0"	(8)#7 VERTICAL #3 TIES @ 6"O.C.	FIN. FLOOR -5'-6"	-
G	9'-0" X 43'-3"	2'-0"	#7 @12"O.C. EACH WAY TOP #9 @12"O.C. LAT BOT #7 @12"O.C. LONG BOT	5'-0"	2'-6"	(18)#9 VERTICAL #4 TIES @ 6"O.C.	FIN. FLOOR -5'-0"	DOWEL FOUNDATION TO EXISTING FOUNDATION
H	5'-0" X 8'-0"	1'-0"	(5)#7 LONG BARS TOP & BOT. (8)#7 LAT BARS TOP & BOT.	2'-6"	2'-6"	(12)#9 VERTICAL #4 TIES @ 6"O.C.	FIN. FLOOR -4'-0"	DOWEL FOUNDATION TO EXISTING FOUNDATION
I	8'-0" X 8'-0"	2'-0"	#7 @12"O.C. EACH WAY TOP & BOTTOM	2'-6"	2'-6"	(12)#9 VERTICAL #4 TIES @ 6"O.C.	FIN. FLOOR -5'-0"	TIE FOOTING TO EXISTING FOUNDATION MATCH EXISTING FOUNDATION THICKNESS
J	11'-1" X 13'-1"	1'-6"	#7 @12"O.C. EACH WAY TOP & BOTTOM	10"	4'-0"	#5 @ 12"O.C. WALL REINF. EACH WAY, EACH FACE	FIN. FLOOR -5'-6"	ELEVATOR PIT/FOUNDATION COMBINED WITH ADJOINING TYPE F PLINTHS FND - REFER TO ENLARGED PLAN
K	2'-0" WIDE	1'-0"	(3) #5 CONTINUOUS #5 @12"O.C. TRANSVERSE	10"	4'-0"	#5 @ 12"O.C. EACH WAY, EACH FACE	FIN. FLOOR -5'-0"	TYPICAL FOUNDATION WALL
L	2'-0" WIDE	1'-0"	(3) #5 CONTINUOUS #5 @12"O.C. TRANSVERSE	10"	3'-0"	#5 @ 12"O.C. EACH WAY, EACH FACE	FIN. FLOOR -4'-0"	TIE FOOTING TO EXISTING FOUNDATION

MARK	SLAB LOCATION	DEPTH	REINFORCEMENT	B.O. FTG ELEVATION	NOTES
M	VEHICLE BAY SLAB	0'-10"	#5 @12"O.C. EA.WAY	FIN. FLOOR -0' 10"***	**VARIES - SLOPED TO DRAIN REFER SECTION
N	SLAB	0'-6"	#5 @12"O.C. EA.WAY	FIN. FLOOR -0'-6"	
O	EXTERIOR SLAB	0'-4"	#5 @12"O.C. EA.WAY	FIN. FLOOR -0'-4" **	**VARIES - SLOPED. PROVIDE (2)#5 REBAR IN THICKENED EDGE AT PERIMETER.
P	ELEVATED SLABS TOTAL	0'-6"	4X4 - W4.5XW4.5 WWF	REFER SECTIONS	COMPOSITE METAL DECK TOPPING SLAB 4-1/2" CONCRETE OVER 1-1/2" METAL DECK

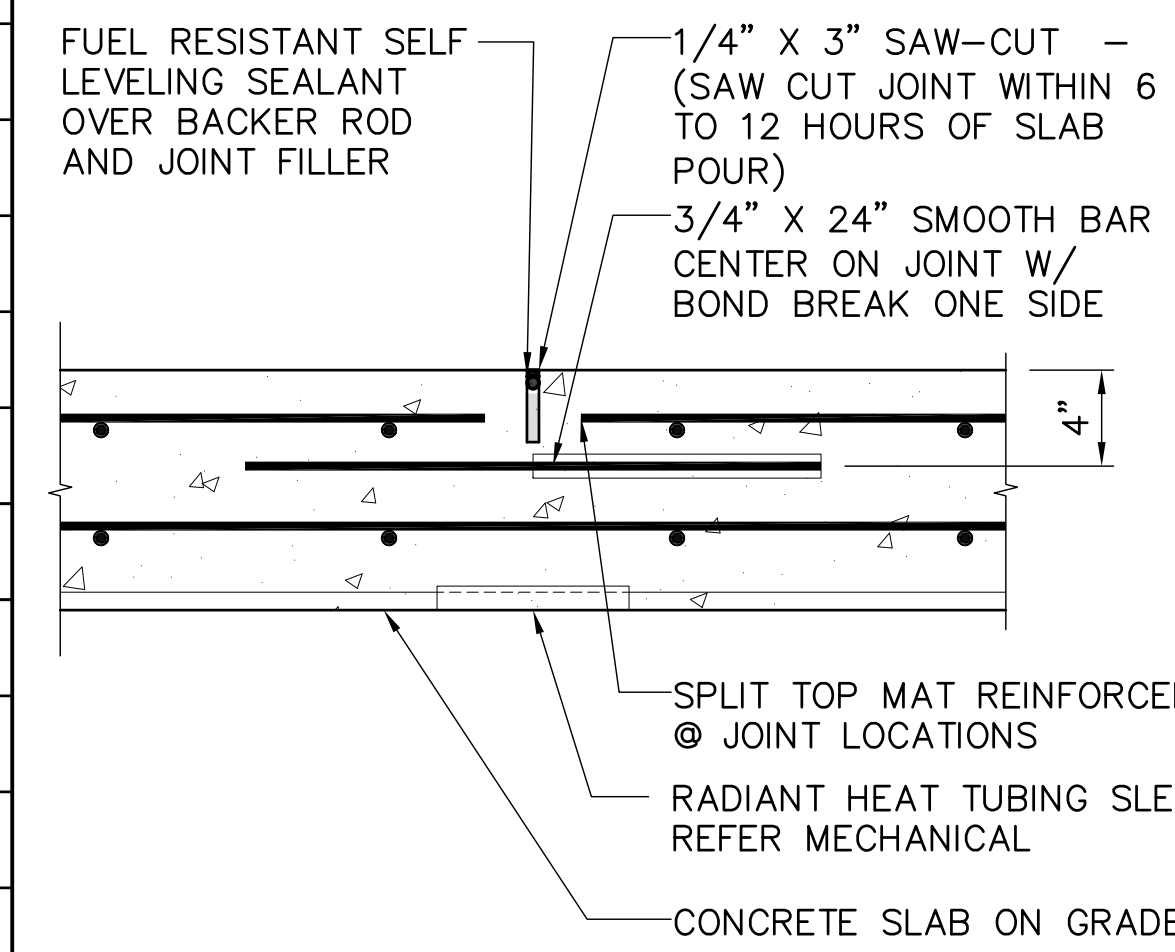
NOTE: TYPICAL REBAR LAP SPLICE DEVELOPMENT LENGTHS:
#5 REBAR : 30 INCHES, #7 REBAR : 42 INCHES, #9 REBAR : 54 INCHES



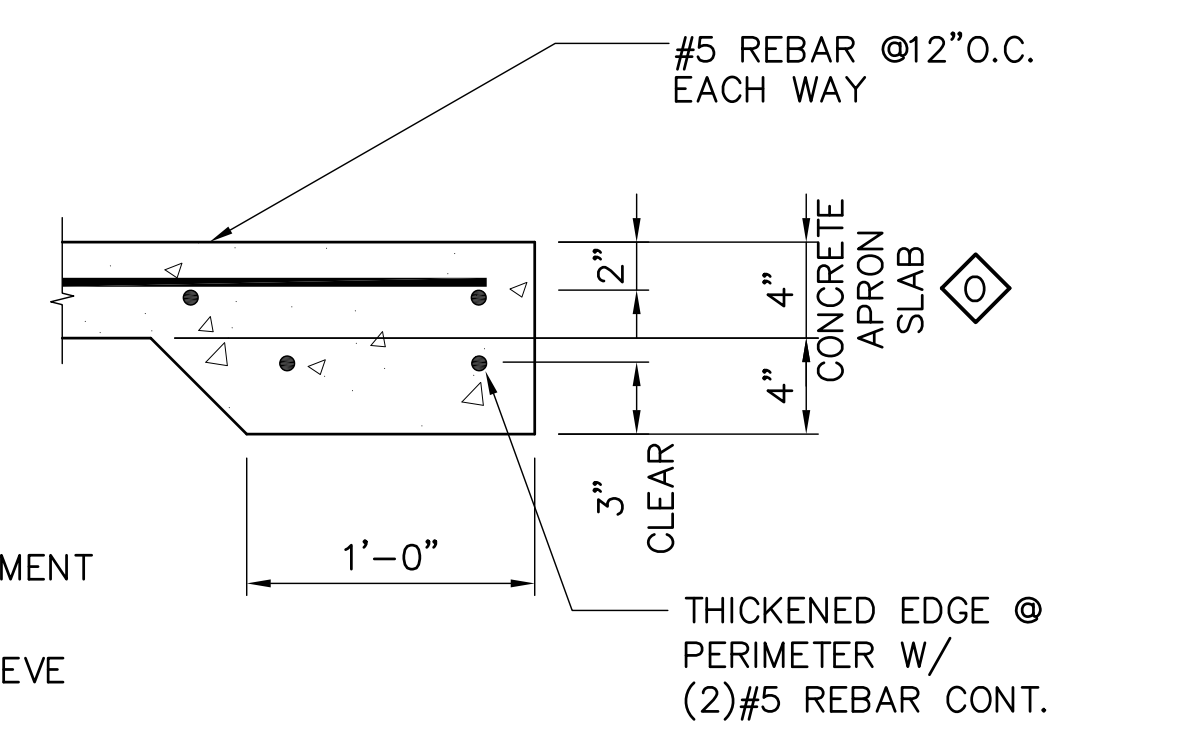
1 10" CONCRETE SLAB DETAIL
S0.3 1-1/2" = 1'-0"



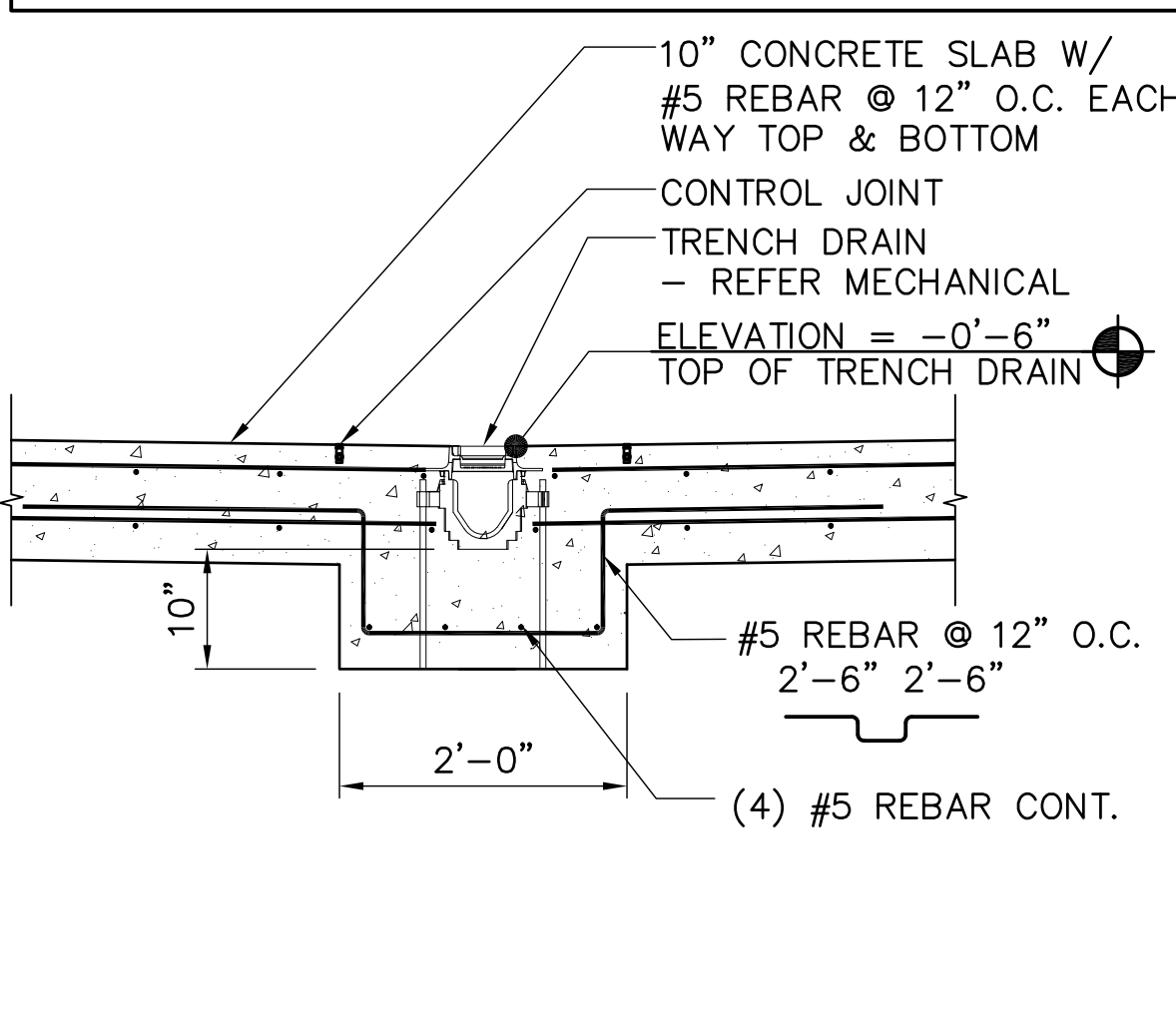
2 6" CONCRETE SLAB DETAIL
S0.3 1-1/2" = 1'-0"



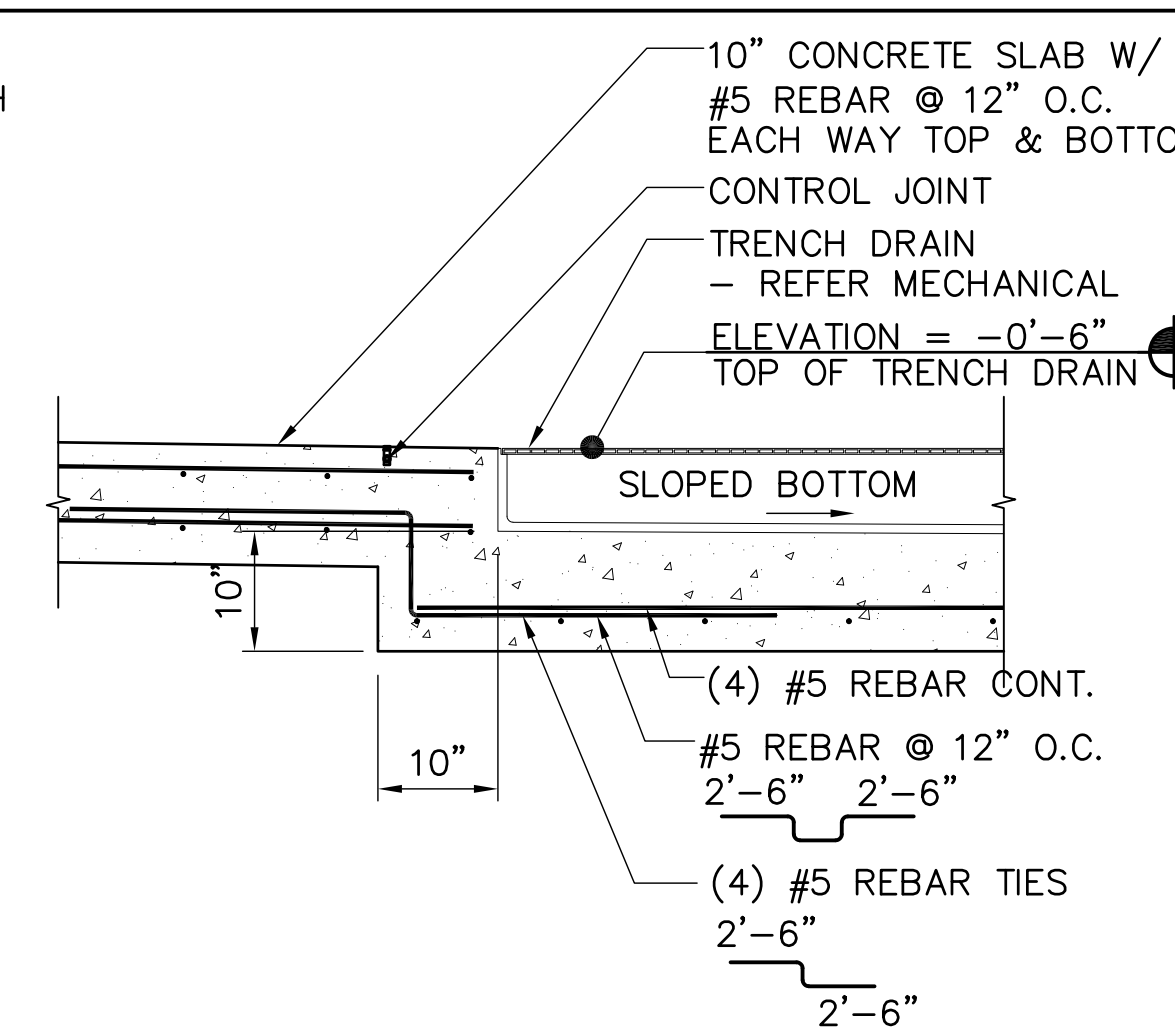
3 10" SLAB CONTROL JOINT DETAIL
S0.3 1-1/2" = 1'-0"



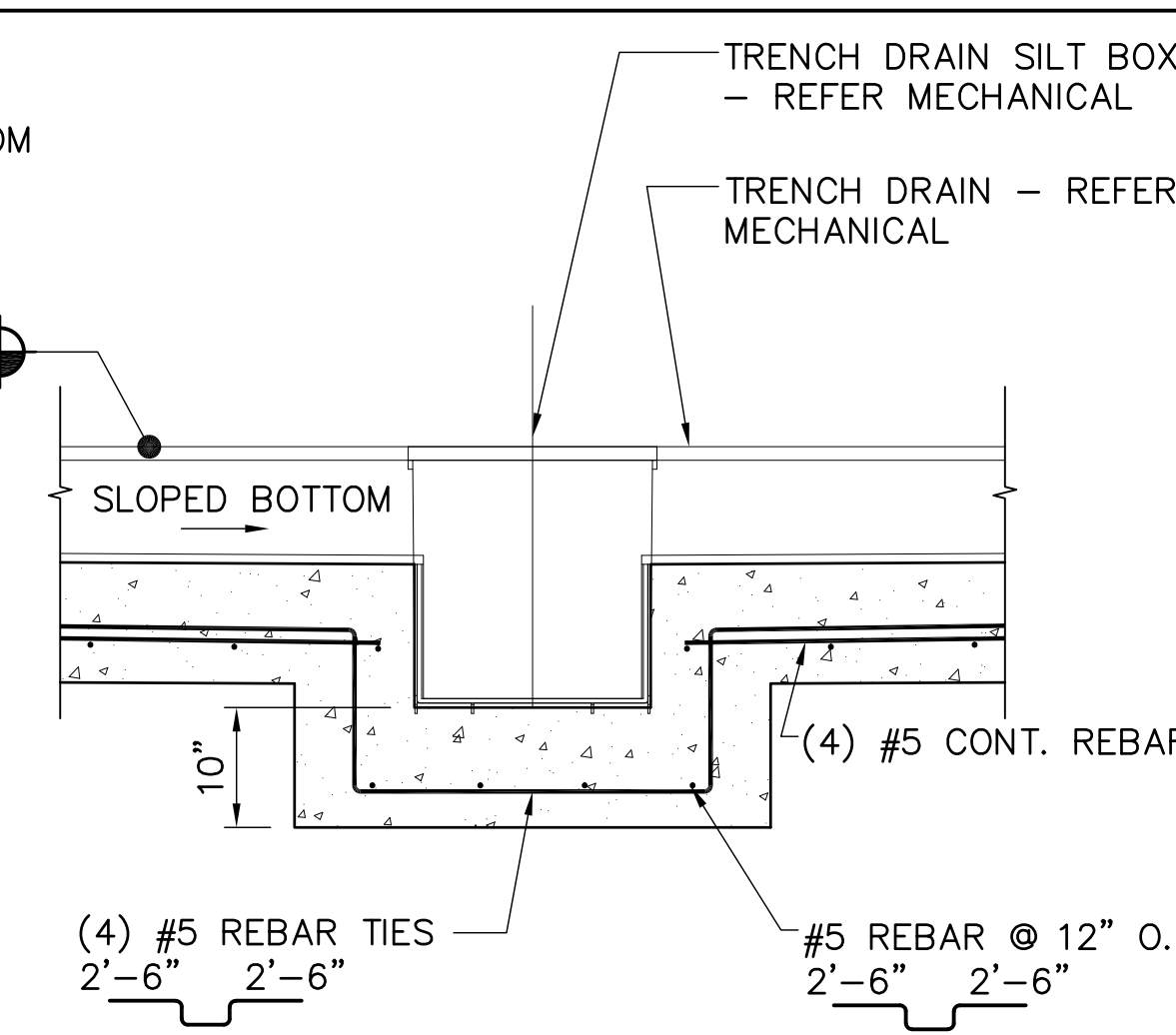
4 4" APRON EDGE DETAIL
S0.3 1-1/2" = 1'-0"



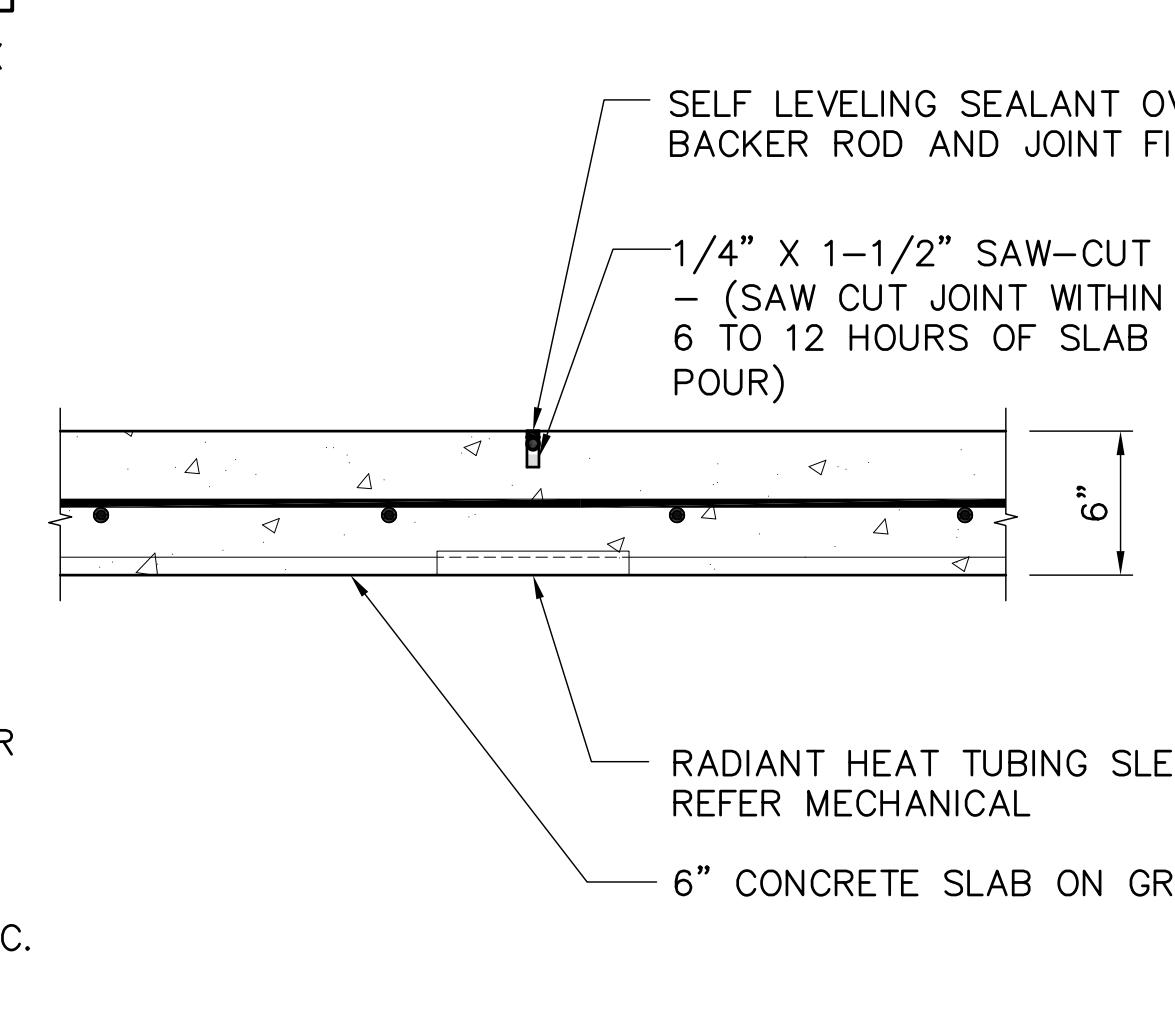
5 TRENCH DRAIN DETAIL
S0.3 3/4" = 1'-0"



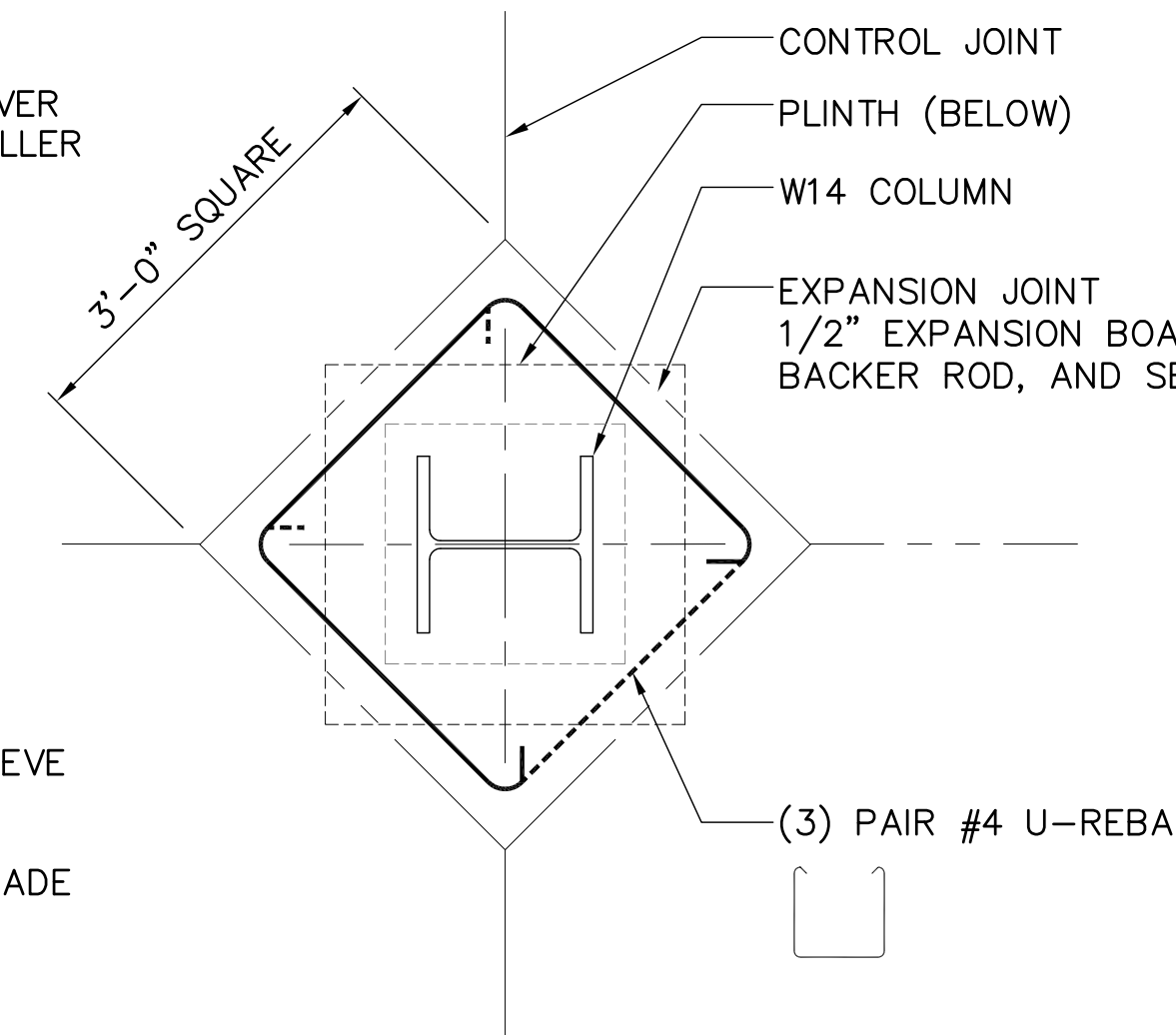
6 TRENCH DRAIN DETAIL
S0.3 3/4" = 1'-0"



7 TRENCH DRAIN SILT BOX DETAIL
S0.3 3/4" = 1'-0"



8 6" SLAB CONTROL JOINT DETAIL
S0.3 1-1/2" = 1'-0"



9 COLUMN CONTROL JOINT DETAIL
S0.3 3/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

REVISIONS

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

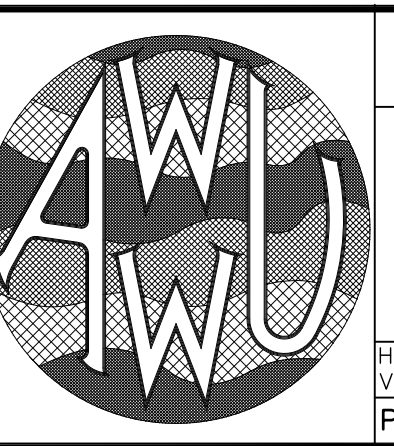
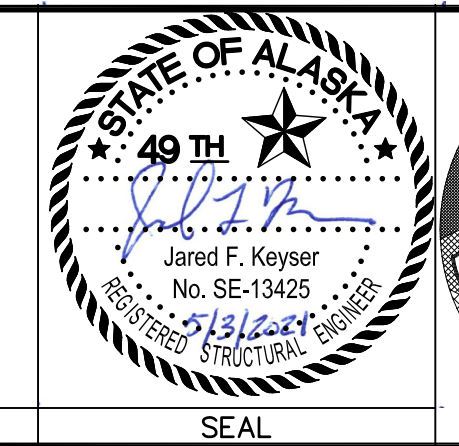
1. DATA PROVIDED BY: This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: _____ DATE: _____ TITLE: _____ BY: _____

2. DATA TRANSFERRED BY: _____ COMPANY: _____ DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
DATA TRANSFER CHECKED BY: _____ DATE: _____ TITLE: _____ BY: _____

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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

FOUNDATION & SLAB SCHEDULE
SLAB DETAILS

DATE: APRIL 2021 GRID: SW 2431

PROJ. ID.: WW.H7775

DWG S0.3

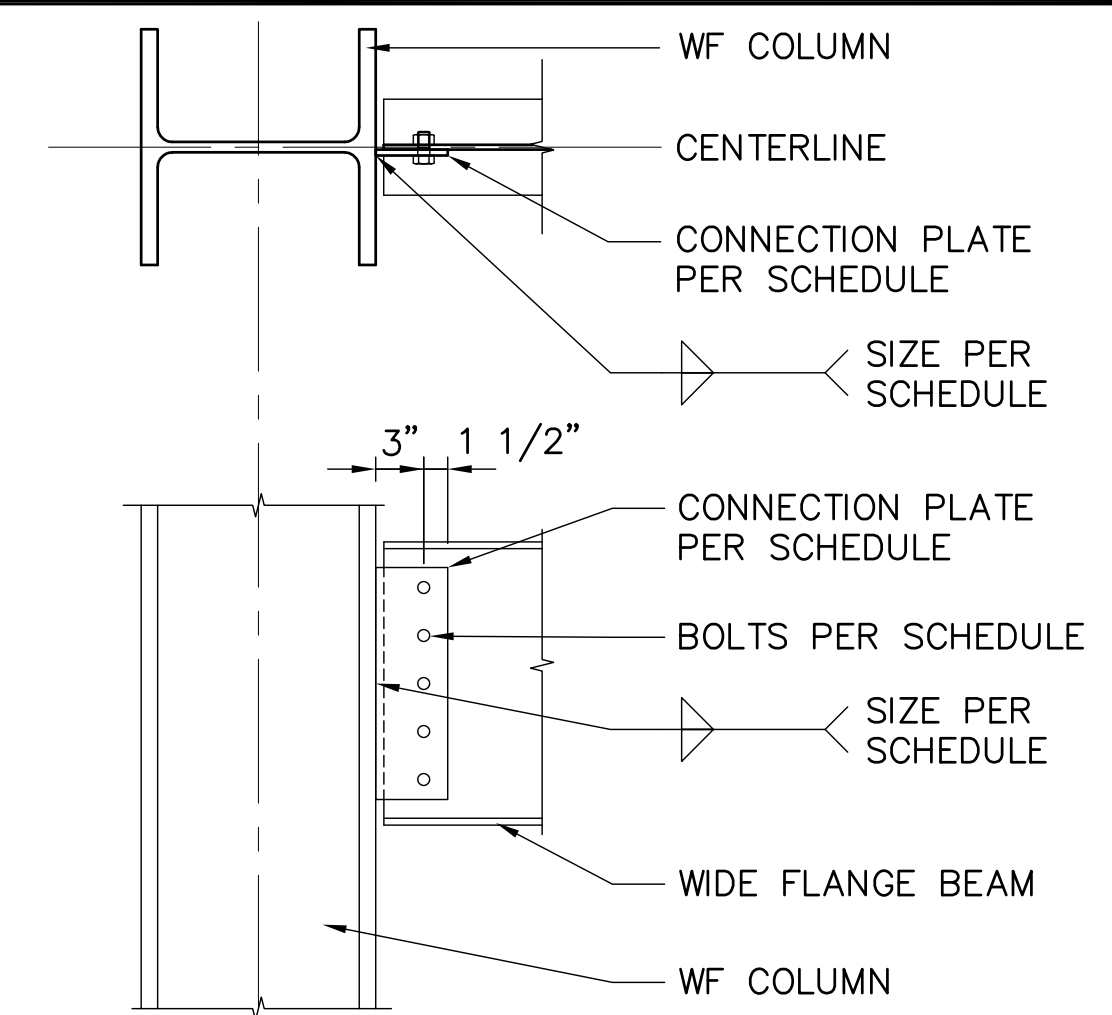
SHEET 143 of 288

AWU PLAN SET
NO. 10771

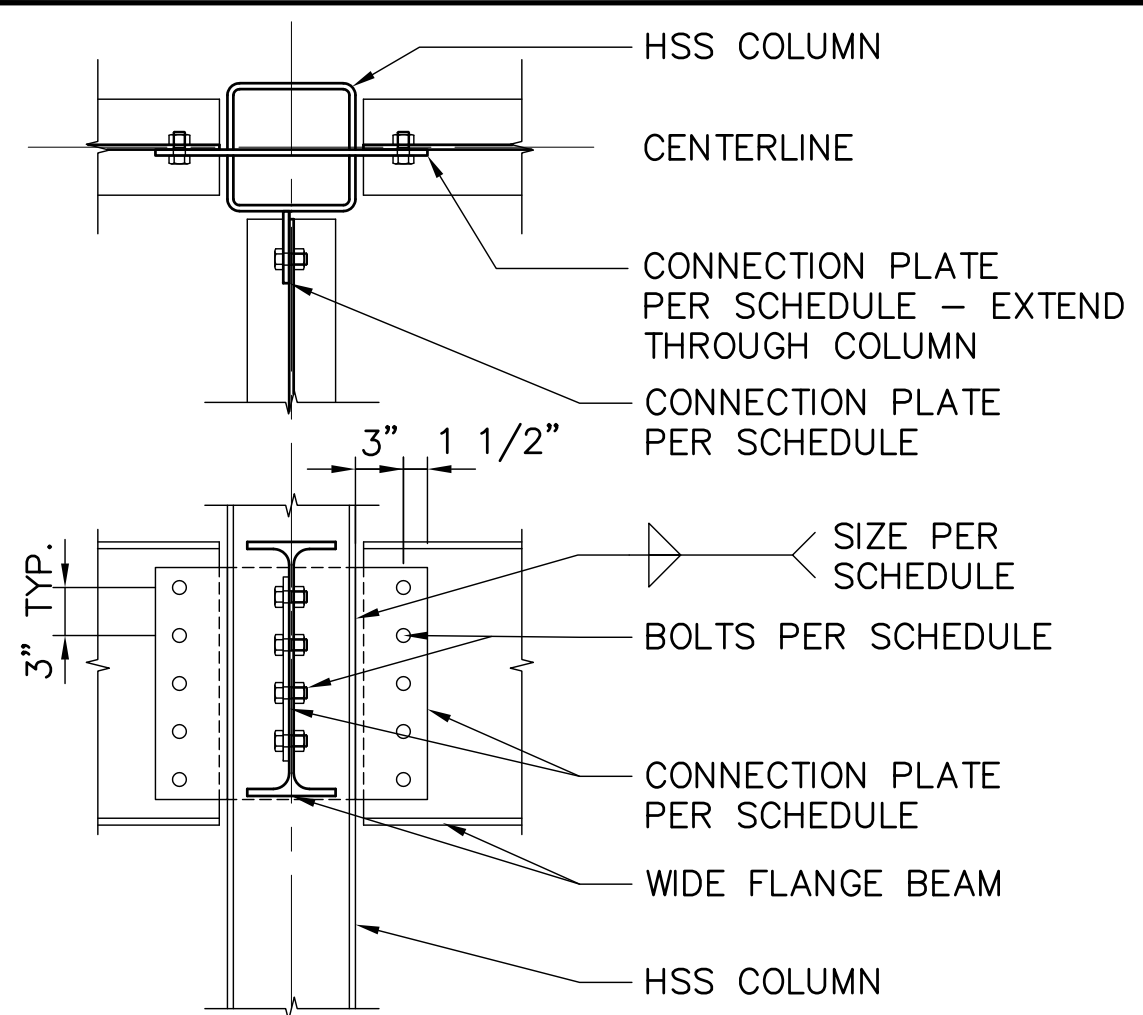
BEAM CONNECTION SCHEDULE

BEAM SIZE	BEAM TO BEAM / COLUMN			GIRDER FASTENERS/WELD	NOTES
	CONNECTION	SIZE	FASTENERS/WELD		
W10	SINGLE PLATE	3/8"x8-1/4"	(3)3/4" DIA. A325-N	1/4" FILLET	
W12	SINGLE PLATE	3/8"x8-1/2"	(3)3/4" DIA. A325-N	1/4" FILLET	
W16	SINGLE PLATE	3/8"x11-1/2"	(4)3/4" DIA. A325-N	1/4" FILLET	
W18	SINGLE PLATE	3/8"x15"	(5)7/8" DIA. A325-N	1/4" FILLET	
W21	SINGLE PLATE	1/2"x16"	(5)1-1/8" DIA A325-N	5/16" FILLET	

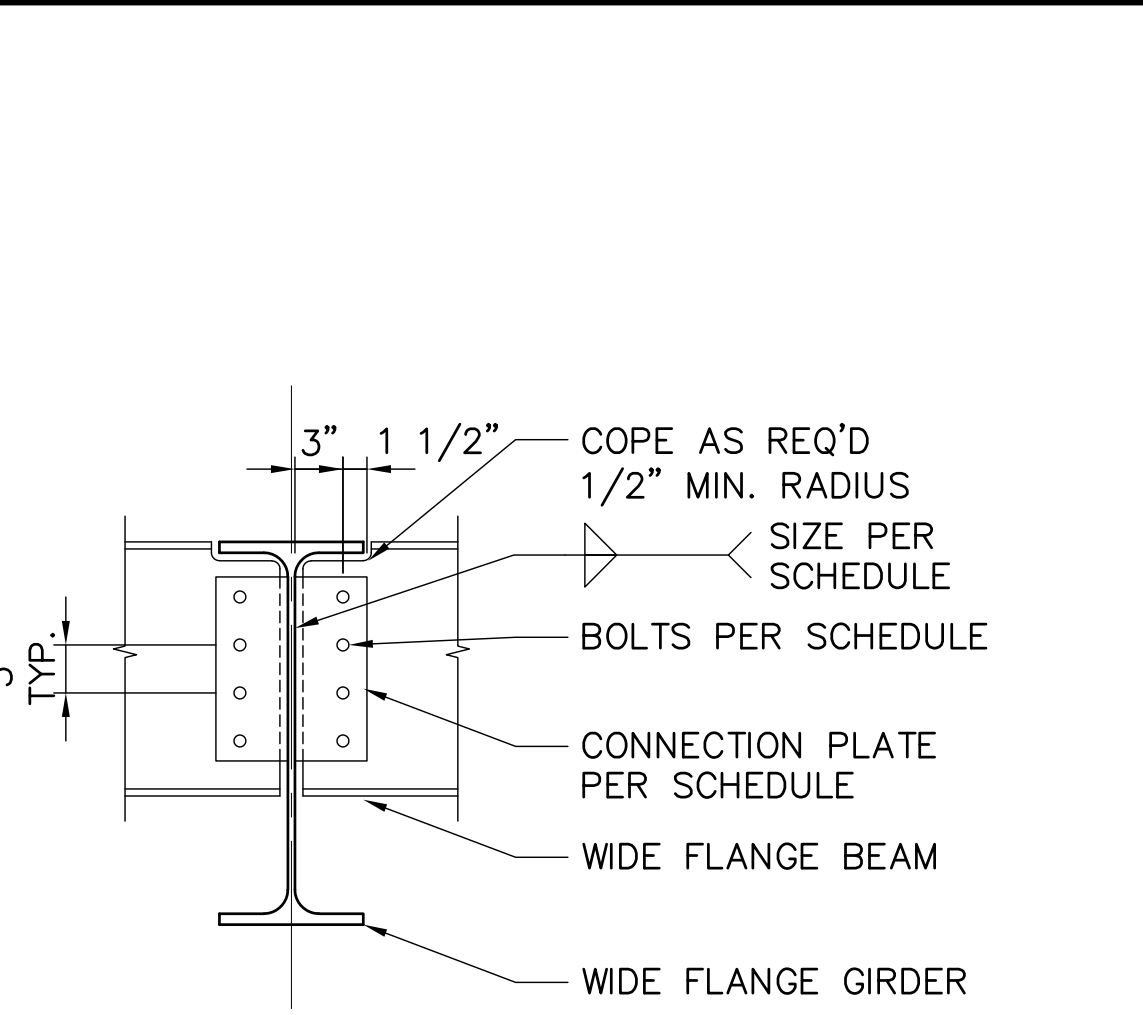
BEAM SIZE	COLLECTOR - BEAM TO COLUMN			COLUMN FASTENERS/WELD	NOTES
	CONNECTION	SIZE	FASTENERS/WELD		
W18	SINGLE PLATE	3/8"x15"	(10)7/8" DIA A325-N	1/4" FILLET	COLLECTOR-2 ROWS X 5 BOLTS
W21	SINGLE PLATE	1/2"x16"	(10)1-1/8" DIA A325-N	5/16" FILLET	COLLECTOR-2 ROWS X 5 BOLTS
W24	DOUBLE PLATE	1/2"x19"	(18)1-1/8" DIA A325-N	5/16" FILLET	COLLECTOR-3 ROWS X 6 BOLTS



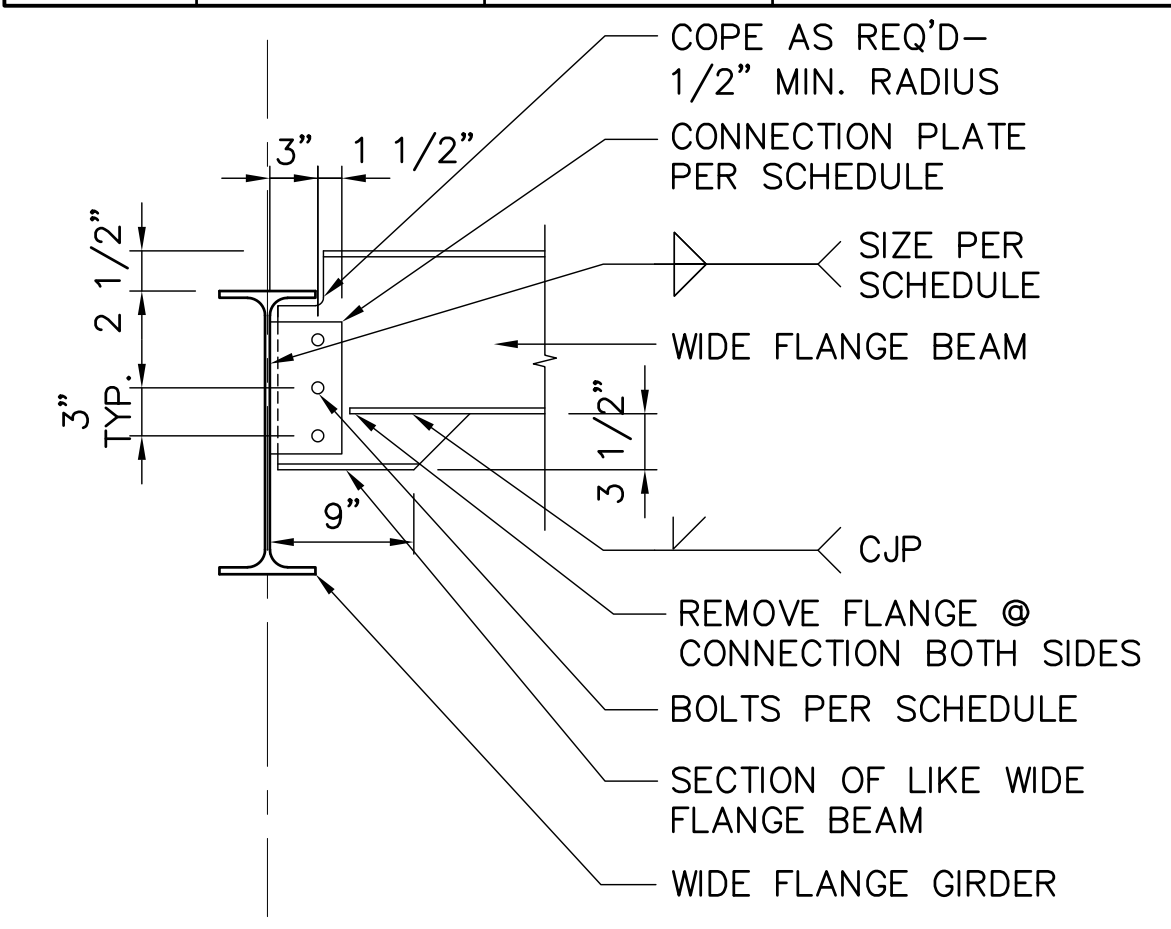
1 TYP. BEAM TO WF COLUMN
S0.4 1" = 1'-0"



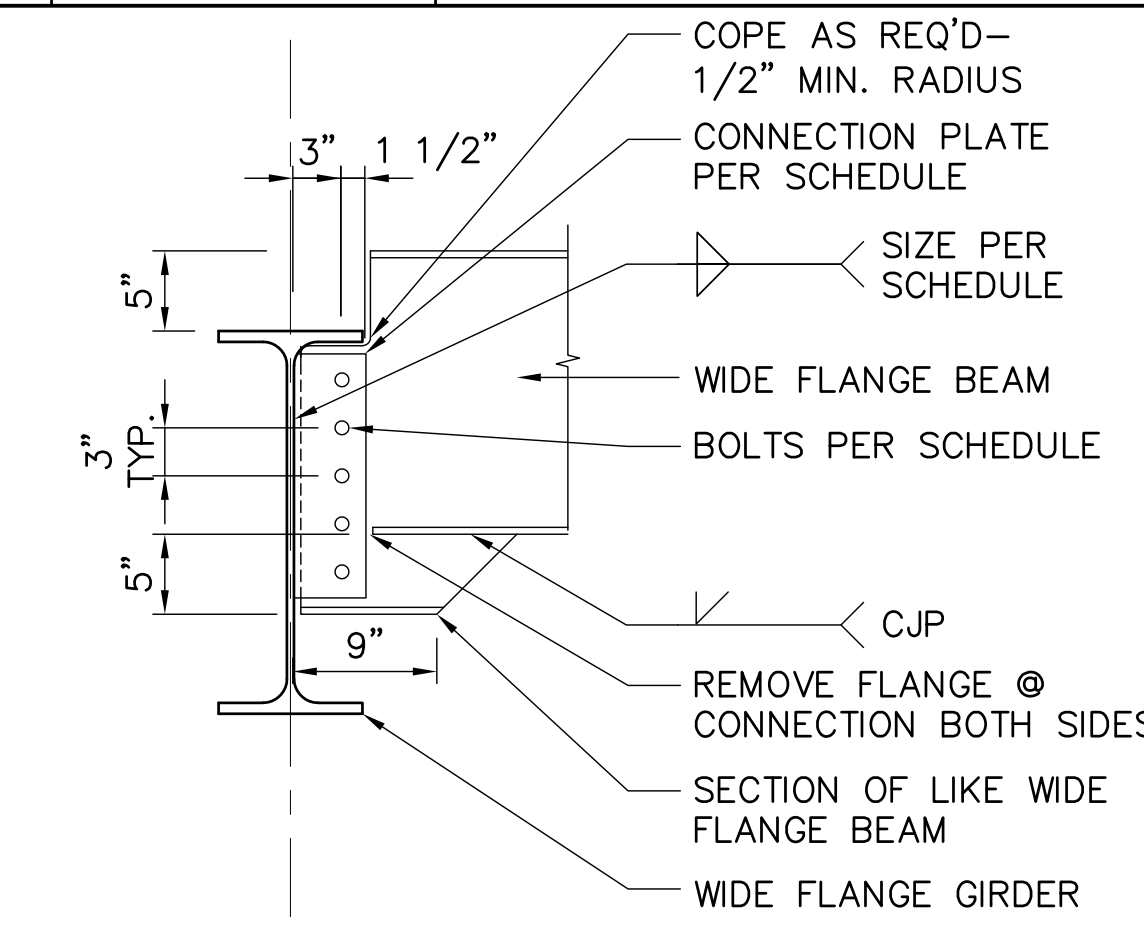
2 TYP. BEAM TO HSS COLUMN
S0.4 1" = 1'-0"



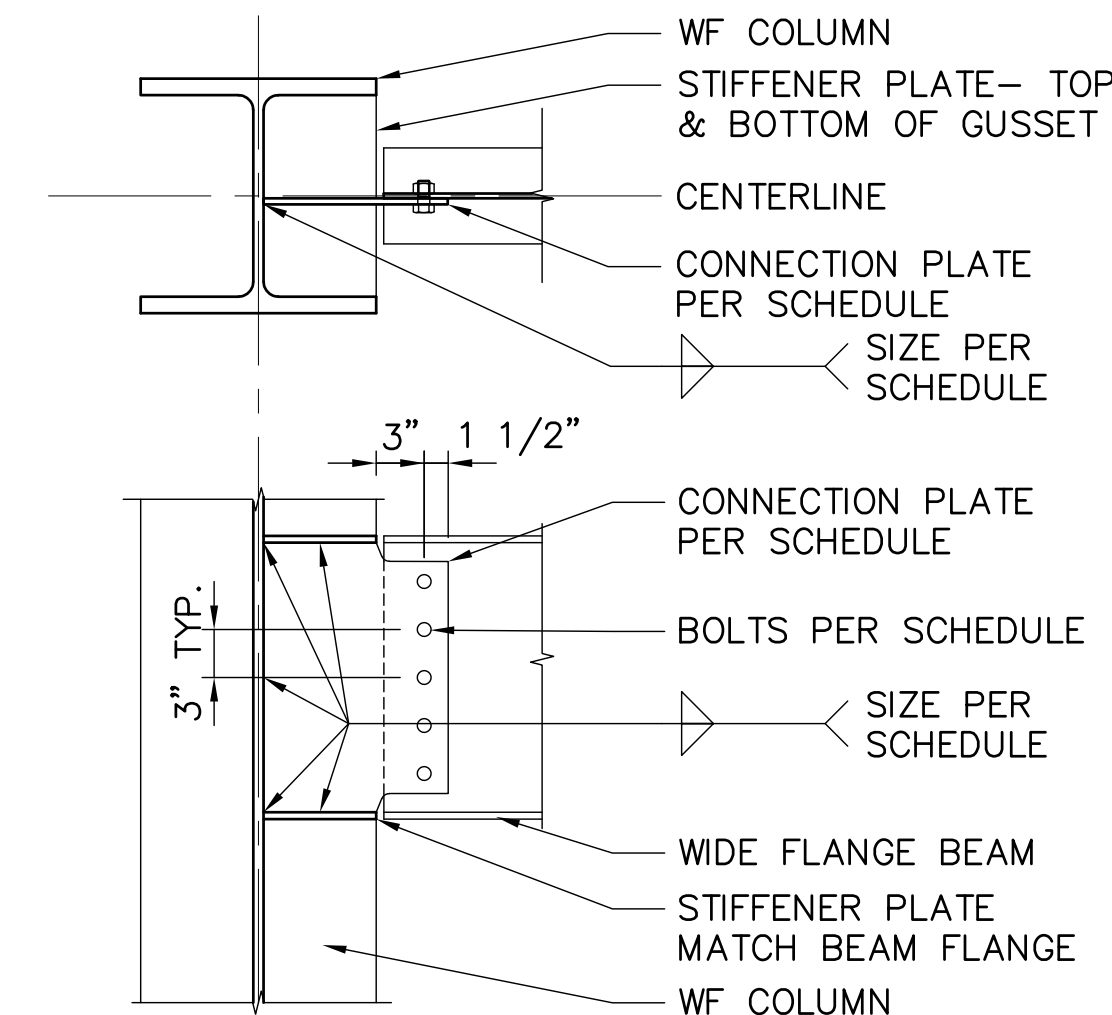
3 TYP. BEAM TO GIRDER DETAIL
S0.4 1" = 1'-0"



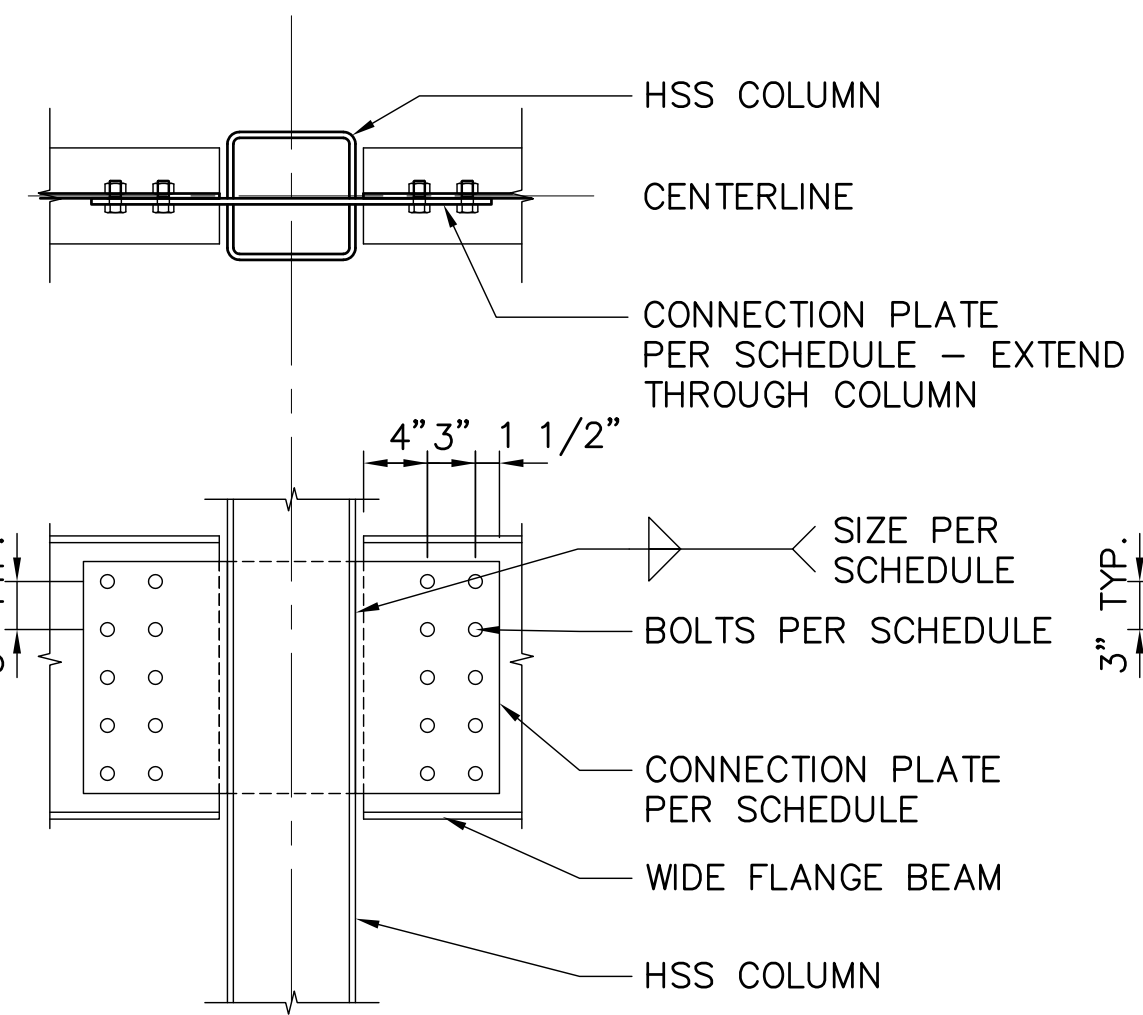
4 TYP. STEPPED BEAM TO GIRDER
S0.4 1" = 1'-0" (@ ROOF LEVEL)



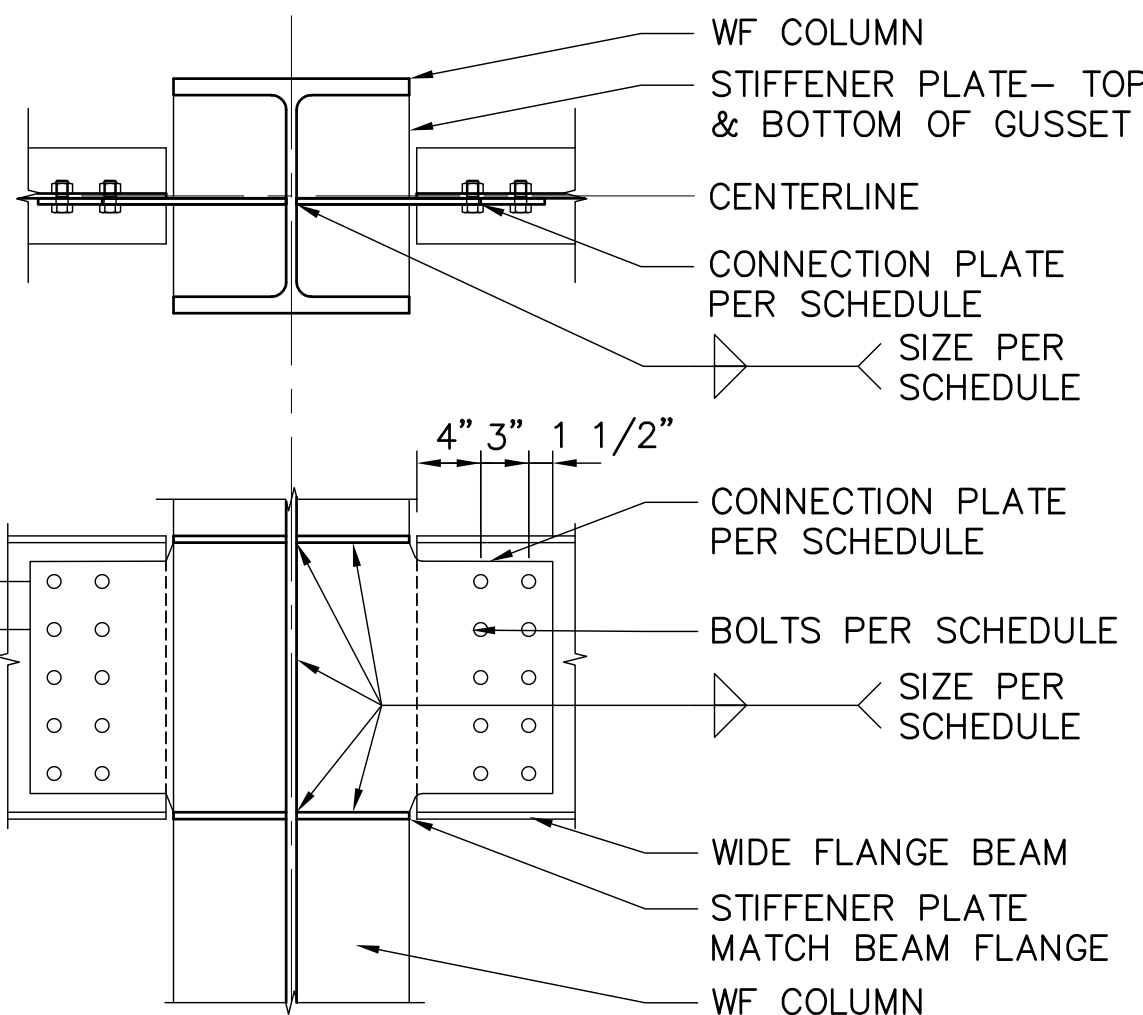
5 TYP. STEPPED BEAM TO GIRDER
S0.4 1" = 1'-0" (@ FLOOR LEVEL)



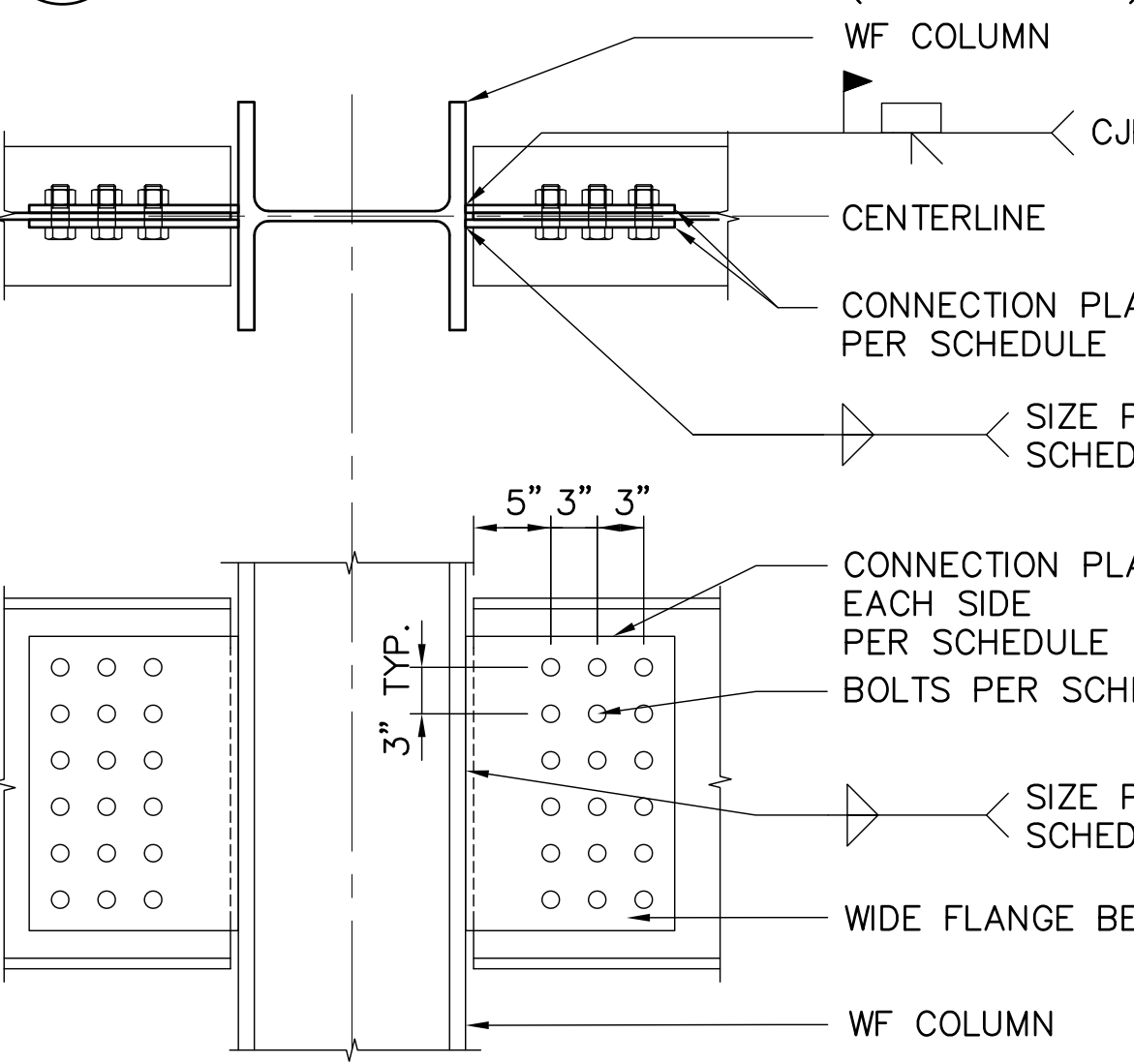
6 TYP. BEAM TO WF COLUMN
S0.4 1" = 1'-0" (@ FLOOR LEVEL)



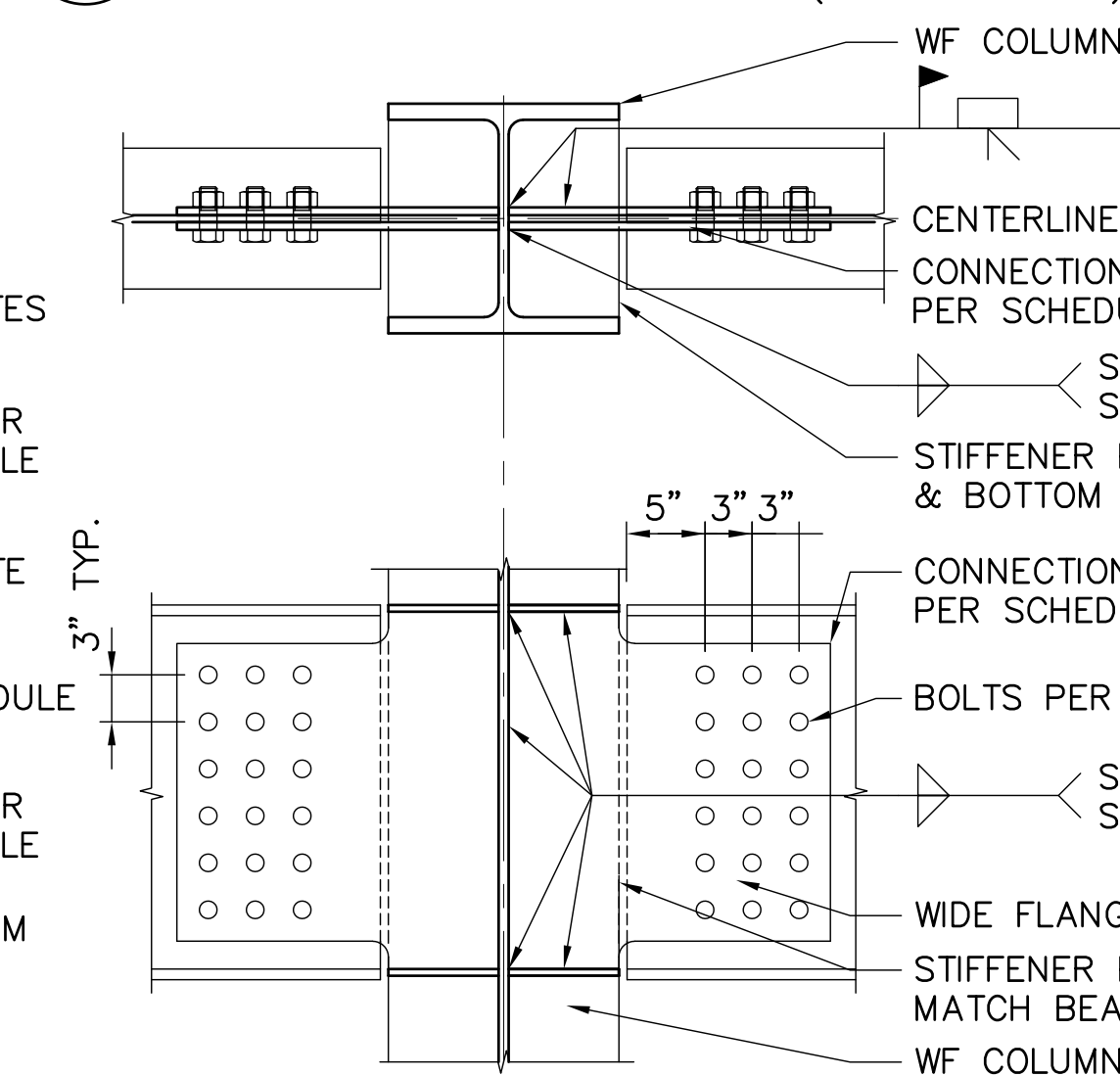
7 W18, W21 COLLECTOR TO HSS
S0.4 1" = 1'-0"



8 W18, W21 COLLECTOR TO WF COL
S0.4 1" = 1'-0"



9 W24 COLLECTOR TO WF COLUMN
S0.4 1" = 1'-0"



10 W24 COLLECTOR TO WF COL
S0.4 1" = 1'-0"

REV	DATE	DESCRIPTION	BY

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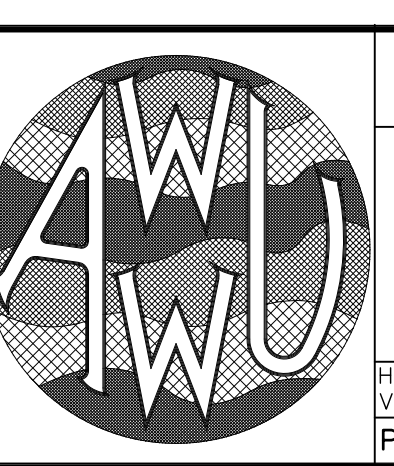
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STATE OF ALASKA
 49th
 Jared F. Keyser
 No. SE-13425
 REGISTERED STRUCTURAL ENGINEER
 SEAL



MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

BEAM CONNECTION SCHEDULE AND DETAILS

PROJ. ID.: WW.H7775

DATE: APRIL 2021 GRID: SW 2431

DWG S0.4

SHEET 144 of 288

AWWU PLAN SET
 NO. 10771

SPECIAL INSPECTION SCHEDULES

DESIGNATED SEISMIC FORCE RESISTING SYSTEM	
THE FOLLOWING ELEMENTS ARE COMPONENTS OF THE DESIGNATED SEISMIC FORCE RESISTING SYSTEM AND ARE SUBJECT TO THE INSPECTION AND TESTING REQUIREMENTS OF AISC 341, CHAPTER J AND AS INDICATED IN THE ASSOCIATED SCHEDULES.	
<ol style="list-style-type: none"> CONCRETE FOUNDATIONS STEEL ROOF DECK DIAPHRAGMS CONCRETE FILLED STEEL DECK FLOOR DIAPHRAGMS COLLECTORS AND DRAG STRUTS (INDICATED WITH "C") BUCKLING RESTRAINED BRACED FRAMES 	

ADDITIONAL SPECIAL INSPECTION FOR SEISMIC RESISTANCE – IBC 1705.12 AND 1705.13	
TYPE	SPECIAL INSP. TYPE
ARCHITECTURAL COMPONENTS CONSISTING OF ERECTION AND FASTENING OF EXTERIOR CLADDING, INTERIOR AND EXTERIOR NON-BEARING WALL FRAMING.	PERIODIC
STRUCTURAL STEEL IN ACCORDANCE WITH THE QUALITY INSURANCE PROVISIONS OF AISC 341 – REFER TO SCHEDULES	PERIODIC

SPECIAL INSPECTION FOR HIGH WIND LOCATIONS – IBC 1705.11	
TYPE	SPECIAL INSP. TYPE
<ol style="list-style-type: none"> INSPECTION OF ROOF COVERING, DECK AND FRAMING CONNECTIONS EXTERIOR WALL COVERINGS AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING. 	PERIODIC

SPECIAL INSPECTION REQUIREMENTS FOR COLD FORMED STEEL DECK – IBC 1705.2.2	
TYPE	SPECIAL INSP. TYPE
MATERIAL VERIFICATION	PERIODIC
MANUFACTURERS CERTIFIED TEST REPORTS	PERIODIC
FLOOR AND ROOF DECK WELDING PER AWS D1.3	PERIODIC
PLACEMENT AND LOCATION OF HEADED STUD ANCHORS	PERIODIC

SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS – IBC TABLE 1705.2.3	
TYPE	SPECIAL INSP. TYPE
INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS	PERIODIC
<ol style="list-style-type: none"> END CONNECTION – BOLTED OR WELDED. BRIDGING – HORIZONTAL OR DIAGONAL MANUFACTURER'S CERTIFICATION OF COMPLIANCE 	

SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION – IBC TABLE 1705.3	
TYPE	SPECIAL INSP. TYPE
<ol style="list-style-type: none"> INSPECT REINFORCEMENT AND VERIFY PLACEMENT REINFORCING BAR MILL CERTIFICATES INSPECT ANCHORS CAST IN CONCRETE INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE <ol style="list-style-type: none"> MECHANICAL AND ADHESIVE ANCHORS (NOT HORIZONTAL OR UPWARDLY INCLINED) VERIFY USE OF REQUIRED DESIGN MIX PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. INSPECTION CONCRETE PLACEMENT FOR PROPER TECHNIQUE VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. 	PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC CONTINUOUS CONTINUOUS PERIODIC PERIODIC

STRUCTURAL STEEL CONSTRUCTION NOTES:	
<ol style="list-style-type: none"> FOR STRUCTURAL STEEL THAT IS PART OF THE SEISMIC FORCE RESISTING SYSTEM, WELDERS SHALL BE QUALIFIED IN ACCORDANCE WITH, AND QUALITY CONTROL/QUALITY ASSURANCE INSPECTIONS AND NON-DESTRUCTIVE TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF AISC 341 CHAPTER J AND AWS D1.8. FOR STRUCTURAL STEEL THAT IN NOT PART OF THE SEISMIC FORCE RESISTING SYSTEM, WELDERS SHALL BE QUALIFIED IN ACCORDANCE WITH AND QUALITY CONTROL/QUALITY ASSURANCE INSPECTIONS AND NON-DESTRUCTIVE TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH AISC 360, CHAPTER N. 	

QUALITY CONTROL / QUALITY ASSURANCE FOR STEEL CONSTRUCTION – AISC 341 CHAPTER J, AISC 360 CHAPTER N			
VISUAL INSPECTION TASKS PRIOR TO WELDING – AISC 341 TABLE J6.1, AISC 360 TABLE N5.4-1.		QC-QUALITY CONTROL	QA-QUALITY ASSURANCE
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS		PERFORM	OBSERVE
WELDING PROCEDURE SPECIFICATIONS AVAILABLE		PERFORM	PERFORM
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES		PERFORM	PERFORM
MATERIAL IDENTIFICATION		OBSERVE	OBSERVE
WELDER IDENTIFICATION SYSTEM		OBSERVE	OBSERVE
FIT-UP OF GROOVE WELDS		PERFORM/OBSERVE	OBSERVE
FIT-UP OF CJP WELD OF HSS T, Y, AND K JOINTS W/O BACKING		PERFORM	OBSERVE
CONFIGURATION AND FINISH OF ACCESS HOLES		OBSERVE	OBSERVE
FIT-UP OF FILLET WELDS		PERFORM/OBSERVE	OBSERVE
VISUAL INSPECTION TASKS DURING WELDING – AISC 341 TABLE J6.2, AISC 360 TABLE N5.4-2			
WELDING PROCEDURE SPECIFICATION (WPS) FOLLOWED		OBSERVE	OBSERVE
USE OF QUALIFIED WELDERS		OBSERVE	OBSERVE
CONTROL AND HANDLING OF WELDING CONSUMABLES		OBSERVE	OBSERVE
ENVIRONMENTAL CONDITIONS		OBSERVE	OBSERVE
WELDING TECHNIQUES		OBSERVE	OBSERVE
NO WELDING OVER CRACKED TACKS		OBSERVE	OBSERVE
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS		PERFORM	PERFORM
VISUAL INSPECTION TASKS AFTER WELDING – AISC 341 TABLE J6.3, AISC 360 TABLE N5.4-3			
WELDS CLEANED		OBSERVE	OBSERVE
SIZE, LENGTH, AND LOCATION OF WELDS		PERFORM	PERFORM
WELDS MEET VISUAL ACCEPTANCE CRITERIA		PERFORM/DOCUMENT	PERFORM/DOCUMENT
ARC STRIKES		PERFORM	PERFORM
K-AREA		PERFORM/DOCUMENT	PERFORM/DOCUMENT
PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS		PERFORM/DOCUMENT	PERFORM/DOCUMENT
BACKING REMOVED, WELD TABS REMOVED AND FINISHED, AND FILLET WELDS ADDED		PERFORM/DOCUMENT	PERFORM/DOCUMENT
REPAIR ACTIVITIES		PERFORM	PERFORM/DOCUMENT
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER		PERFORM	PERFORM
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT EOR APPROVAL		OBSERVE	OBSERVE
INSPECTION TASKS PRIOR TO BOLTING – AISC 341 TABLE J7.1, AISC 360 TABLE N5.6-1			
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS		OBSERVE	PERFORM
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		OBSERVE	OBSERVE
PROPER FASTENERS SELECTED FOR JOINT DETAIL		OBSERVE	OBSERVE
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		OBSERVE	OBSERVE
CONNECTING ELEMENTS, INCLUDING FAYING SURFACE CONDITION AND HOLE PREPARATION MEET REQUIREMENTS		OBSERVE	OBSERVE
PRE-INSTALLATION VERIFICATION OF TESTING BY INSTALLATION PERSONNEL OBSERVED FOR FASTENER ASSEMBLIES AND METHODS USED		PERFORM/DOCUMENT	OBSERVE/DOCUMENT
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		OBSERVE	OBSERVE
INSPECTION TASKS DURING BOLTING – AISC 341 TABLE J7.2, AISC 360 TABLE N5.6-2			
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS ARE POSITIONED AS REQUIRED		OBSERVE	OBSERVE
JOINT BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		OBSERVE	OBSERVE
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		OBSERVE	OBSERVE
BOLTS ARE PRETENSIONED PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		OBSERVE	OBSERVE
INSPECTION TASKS AFTER BOLTING – AISC 341 TABLE J7.3, AISC 360 TABLE N5.6-3			
DOCUMENT ACCEPTED AND REJECTED CONDITIONS		PERFORM/DOCUMENT	PERFORM/DOCUMENT
OTHER INSPECTION TASKS – AISC 341 TABLE J8.1			
PROTECTED ZONE – NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY THE FABRICATOR OR ERECTOR		PERFORM/DOCUMENT	PERFORM/DOCUMENT



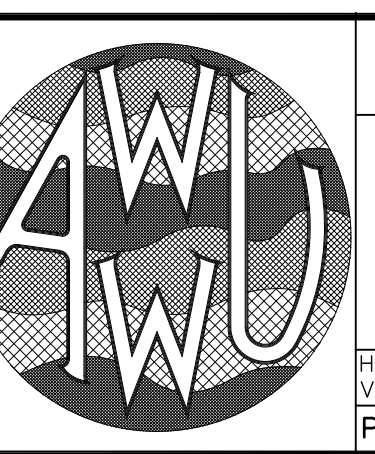
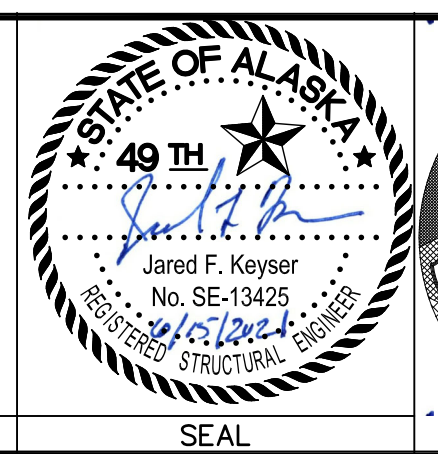
AWWU PLAN SET NO. 10771

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY
1	6/8/21	MOA PLAN REVIEW	JFK
REVISIONS			

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BY:		BY:	
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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		KING STREET WARM VEHICLE STORAGE BUILDING PROJECT		DWG
SPECIAL INSPECTION SCHEDULES		S0.5		
HORZ. SCALE: N/A		DATE: APRIL 2021		GRID: SW 2431
VERT. SCALE: N/A		PROJ. ID.: WW.H7775		SHEET 144A of 288

BAR JOIST SCHEDULE

LOCATION	DESIGNATION	DEPTH	SEAT HEIGHT	DESIGN LOAD TOTAL/LIVE	COMMENTS
ROOF JOISTS	22K5	22"	2.5"	341/368	-
	22KS10	22"	2.5"	550/550	SNOW DRIFT/RTU LOADING
	24K6	24"	2.5"	357/393	-
	24KS10	24"	2.5"	549/549	SNOW DRIFT/RTU LOADING

- JOISTS SHALL BE DESIGNED FOR THE TABULAR LOADS NOTED. LOADS ARE PROVIDED IN PLF (POUNDS PER LINEAR FOOT) OF JOIST.
- ROOF JOIST LIVE LOAD NOTED IS BASED ON DEFLECTION EQUAL TO SPAN/240.
- ROOF JOISTS SHALL BE DESIGNED FOR SUPPORTED EQUIPMENT
 0.5K - CEILING FAN POINT LOAD WHERE INDICATED ON THE PLAN.
 6.4K - RTU1
 8.2K - RTU2

LOCATION	DESIGNATION	DEPTH	SEAT HEIGHT	DESIGN LOAD TOTAL/LIVE	COMMENTS
FLOOR JOISTS	28LH12	28"	5"	1058	MAXIMUM TABLE LOAD

- JOISTS SHALL BE DESIGNED FOR THE ALLOWABLE STRESS TABULAR LOADS NOTED. LOADS ARE PROVIDED IN PLF (POUNDS PER LINEAR FOOT) OF JOIST.
- FLOOR JOIST LIVE LOAD DEFLECTION LIMITED TO SPAN/480.

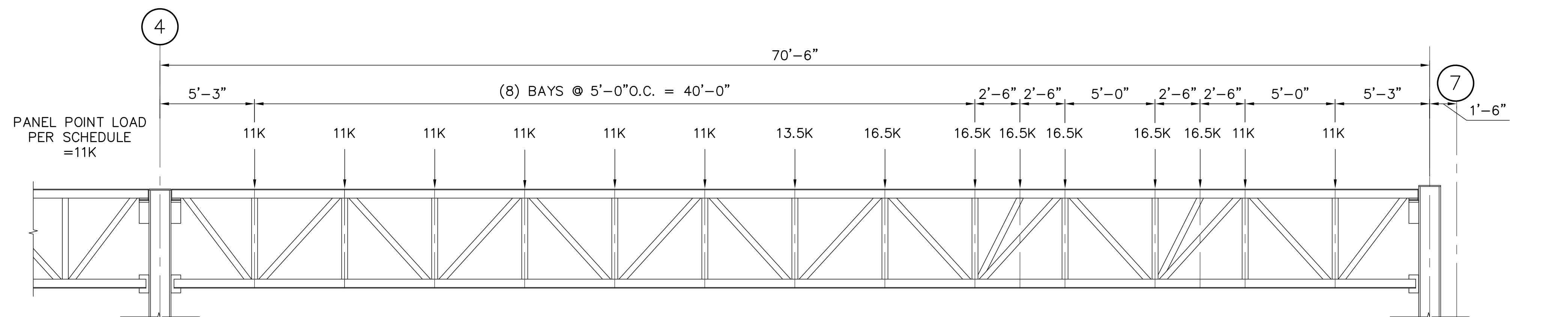
JOIST GIRDER SCHEDULE

LOCATION	DESIGNATION	DEPTH	SEAT HEIGHT	DESIGN LOAD PER PANEL	COMMENTS
ROOF JOIST GIRDERS	66BG14N11K	66"	7.5"	11 KIPS	REFER TO DIAGRAM FOR ADDITIONAL PANEL POINTS & PANEL POINT LOADS AT SNOW DRIFT / RTU LOCATIONS.

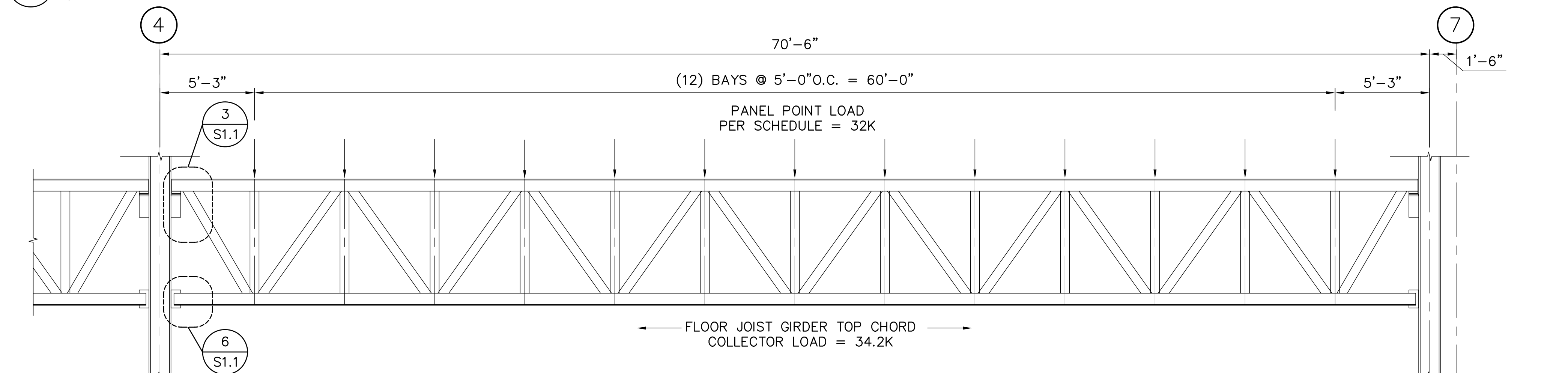
- JOIST GIRDER SHALL BE DESIGNED FOR THE PANEL POINT LOADS NOTED.
- REFER TO SHEET S0.2 FOR WIND UPLIFT AND SNOW DRIFT LOADING DIAGRAMS.
- ROOF JOIST GIRDER DEFLECTION DESIGN SHALL BE LIMITED TO NOT GREATER THAN SPAN/240.

LOCATION	DESIGNATION	DEPTH	SEAT HEIGHT	DESIGN LOAD TOTAL/LIVE	COMMENTS
FLOOR JOIST GIRDERS	84BG14N32K	84"	10"	32 KIPS	TOP CHORD COLLECTOR LOAD = 34.2 KIPS

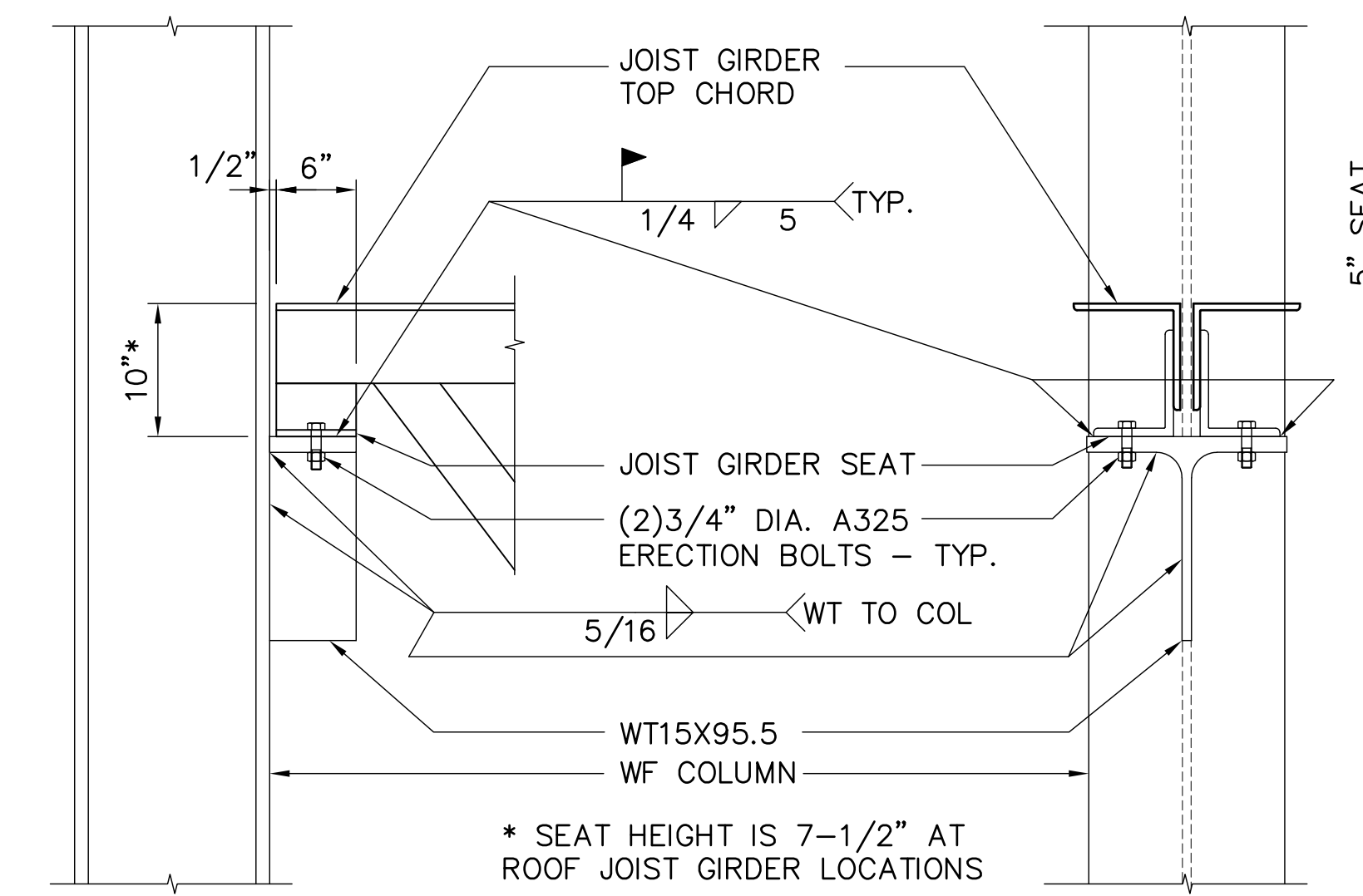
- JOIST GIRDER SHALL BE DESIGNED FOR THE PANEL POINT LOADS NOTED.
- CAMBER FLOOR JOIST GIRDER FOR 75% OF DEAD LOAD DEFLECTION.
- FLOOR JOIST GIRDER LIVE LOAD DEFLECTION DESIGN SHALL BE LIMITED TO NOT GREATER THAN SPAN/640.



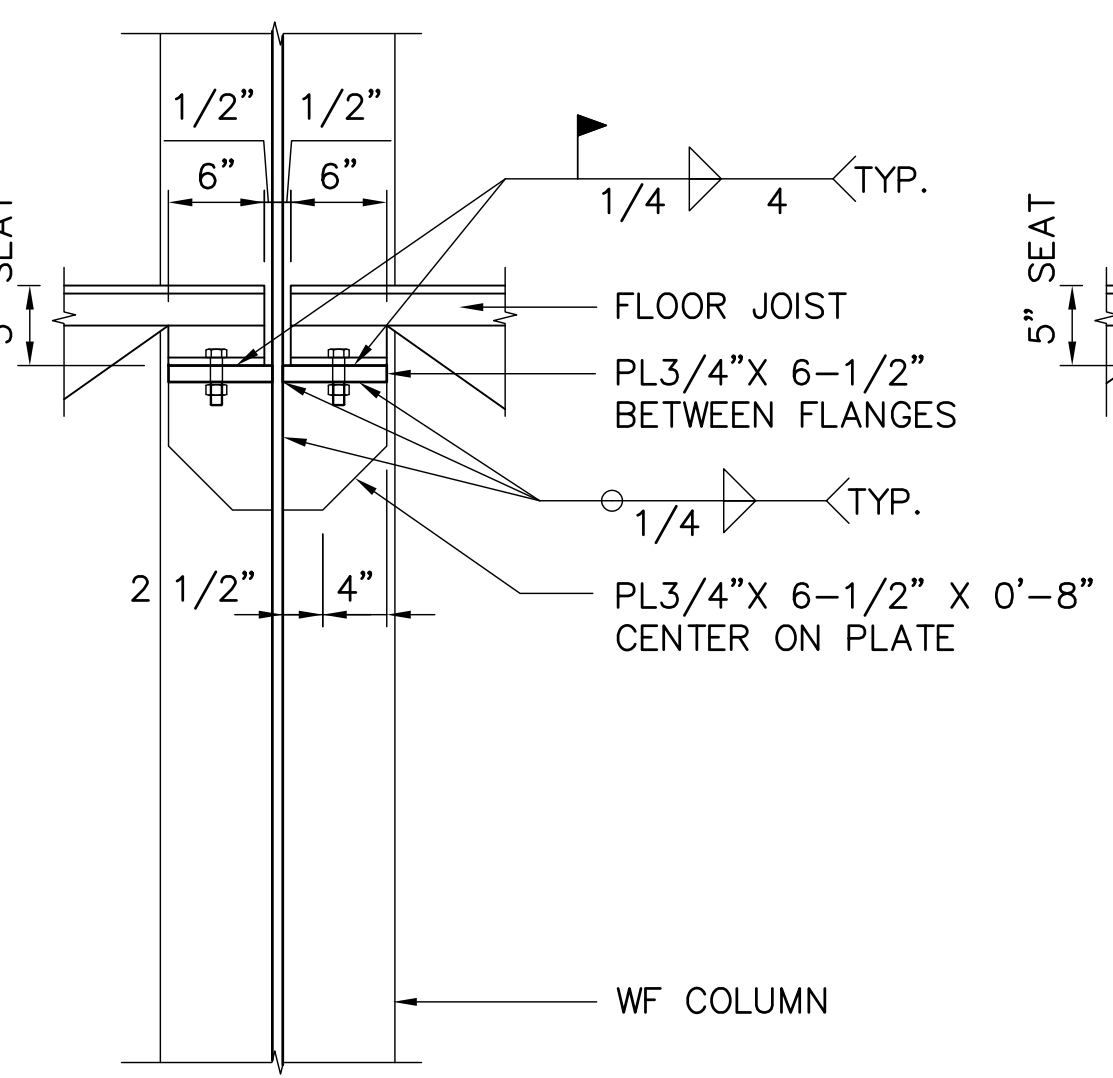
1 66" ROOF JOIST GIRDER SPECIAL LOADING DIAGRAM @ ROOF TOP UNIT LOCATIONS
 S1.1 1/4" = 1'-0"



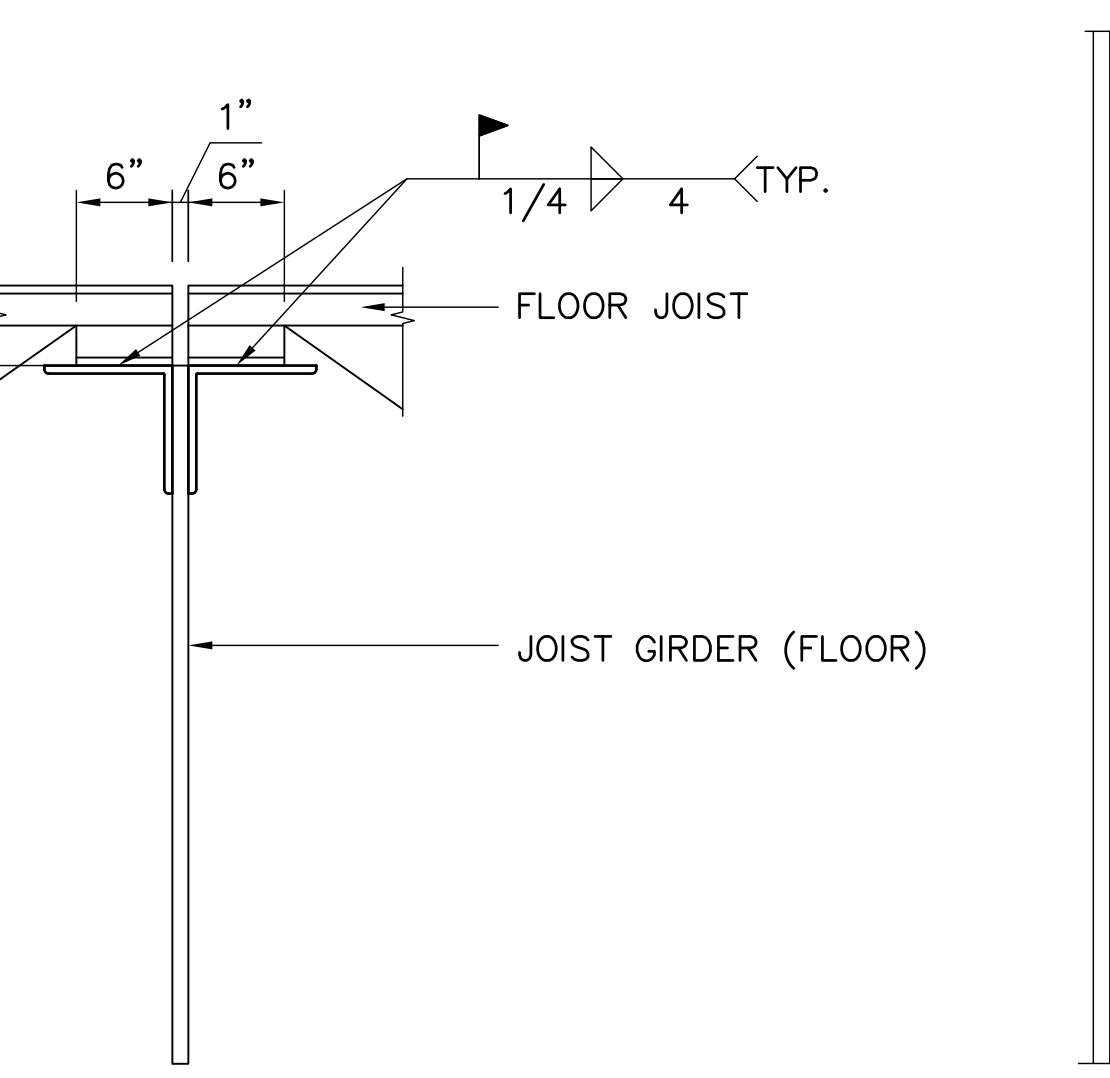
2 84" FLOOR JOIST GIRDER TYPICAL LOADING DIAGRAM
 S1.1 1/4" = 1'-0"



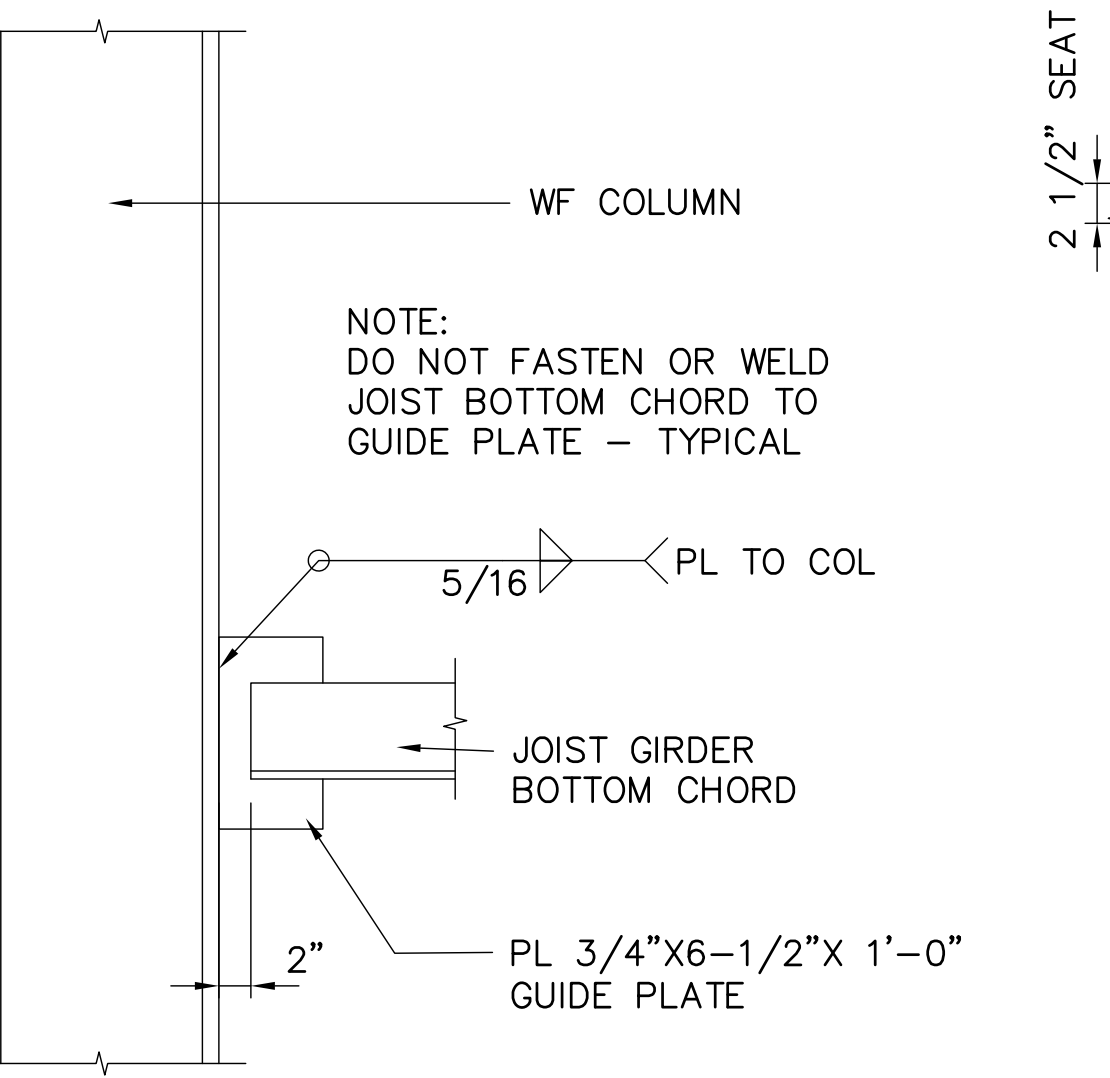
3 JOIST GIRDER SEAT TO COLUMN
 S1.1 1" = 1'-0"



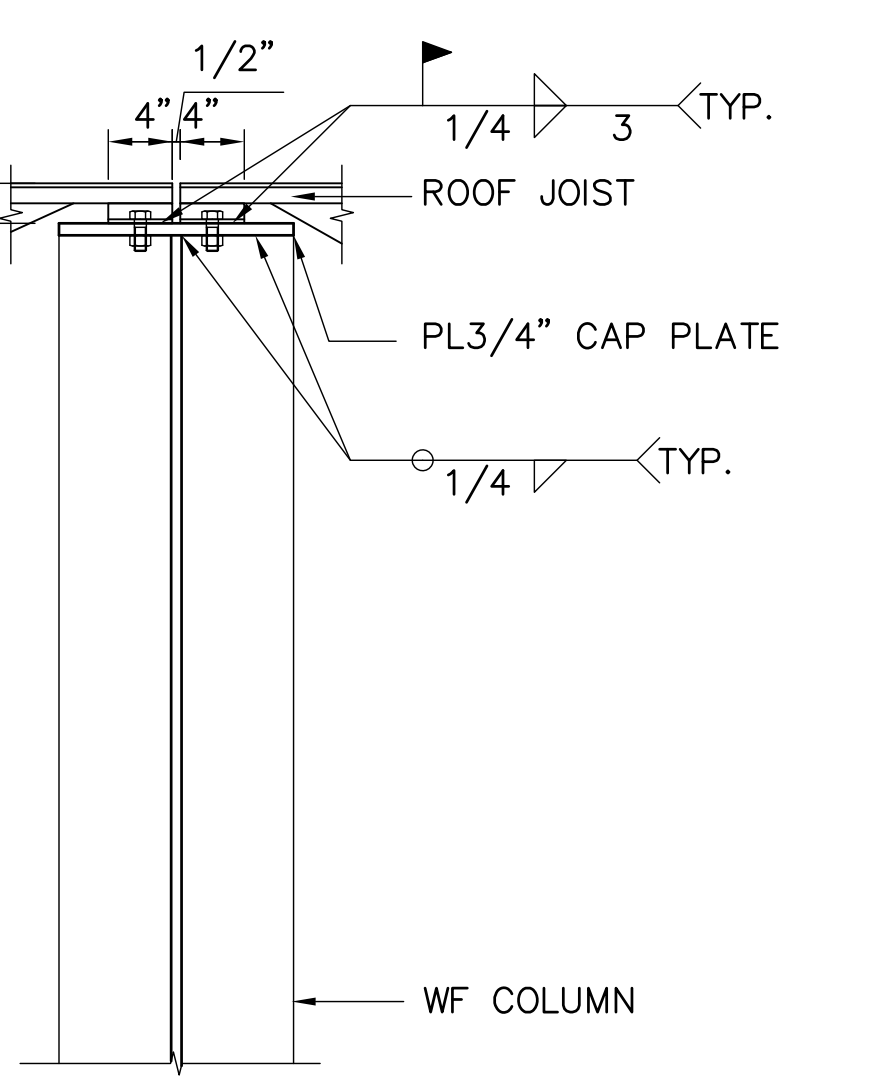
4 FLOOR JOIST TO COLUMN
 S1.1 1" = 1'-0"



5 FLOOR JOIST TO JOIST GIRDER
 S1.1 1" = 1'-0"



6 JOIST GIRDER BOTTOM CHORD
 S1.1 1" = 1'-0"



7 ROOF JOIST TO COLUMN
 S1.1 1" = 1'-0"

REV	DATE	DESCRIPTION	BY

REVISIONS

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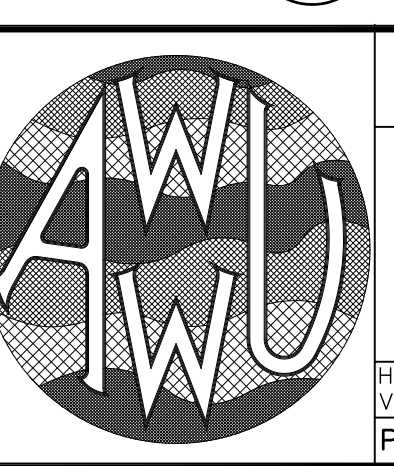
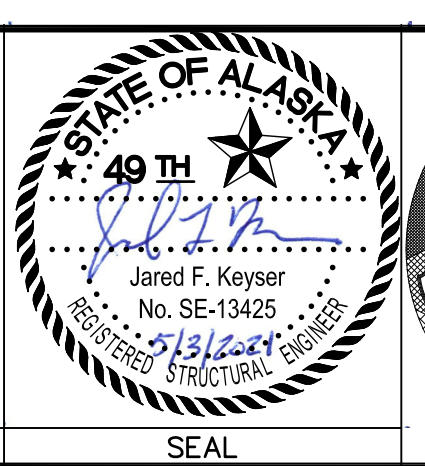
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MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

STEEL JOIST / JOIST GIRDER SCHEDULE, DIAGRAMS AND DETAILS

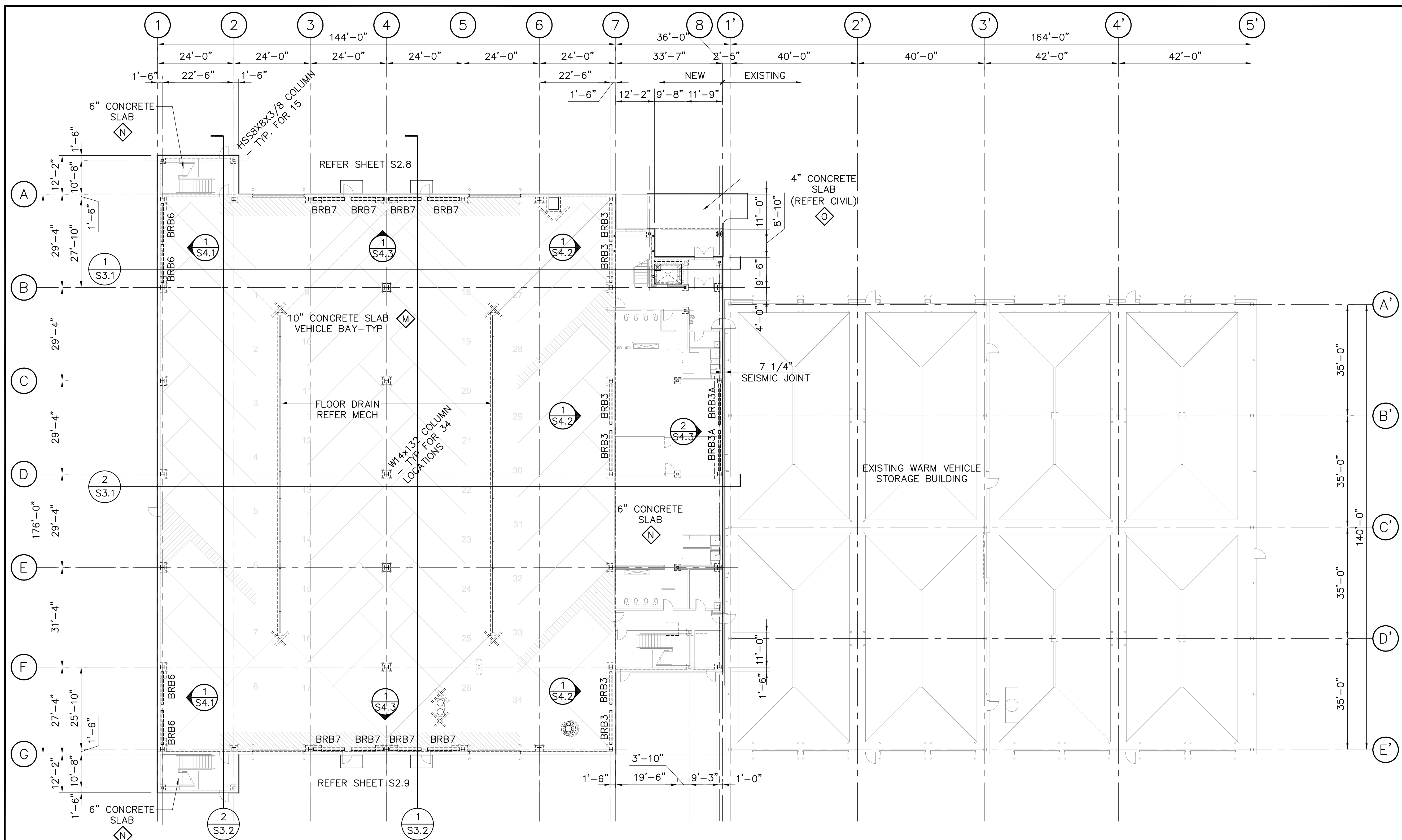
DATE: APRIL 2021 GRID: SW 2431

PROJ. ID.: WW.H7775

DWG S1.1

SHEET 145 of 288

AWWU PLAN SET NO. 10771



◊ FOUNDATION MARK
REFER FOUNDATION
SCHEDULE SHEET S0.3

1 FIRST FLOOR FRAMING/SLAB PLAN
S2.2 1/16" = 1'-0"

VERIFY SCALE		
REV	DATE	DESCRIPTION

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BY: _____

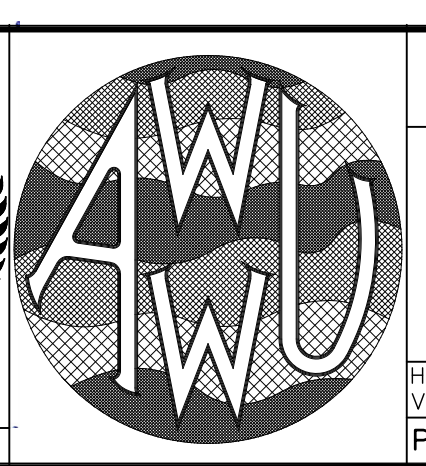
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Jared F. Keyser
No. SE-13425
REGISTERED STRUCTURAL ENGINEER
SEAL



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WATER & WASTEWATER UTILITY

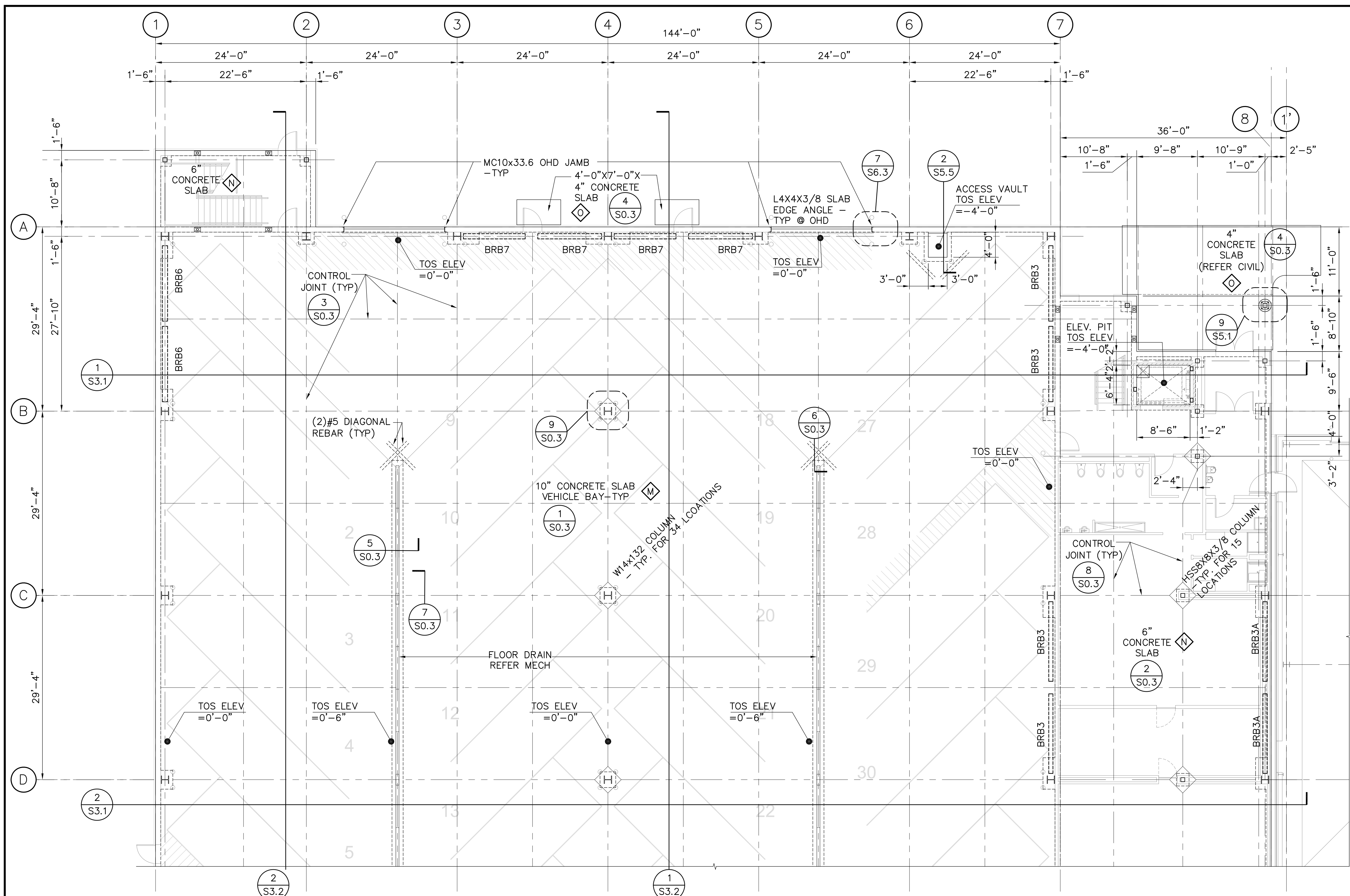
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

FIRST FLOOR FRAMING/SLAB PLAN

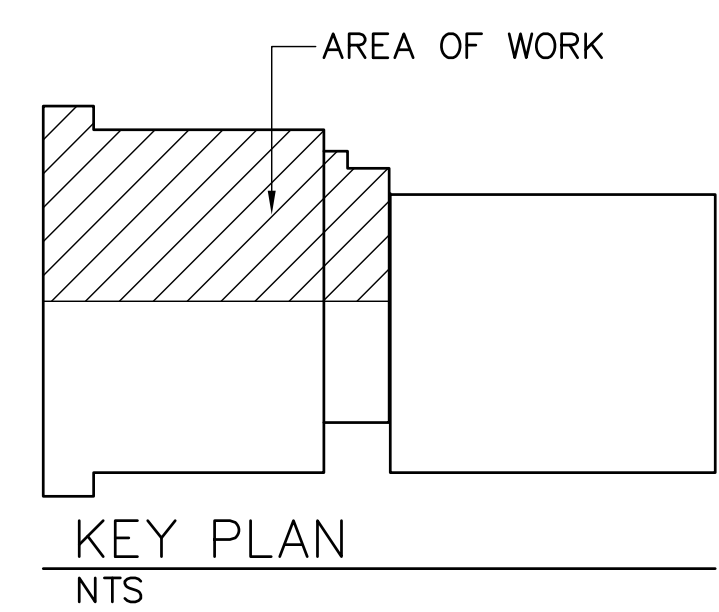
DWG S2.2

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

SHEET 147 of 288



◇ FOUNDATION MARK
REFER FOUNDATION
SCHEDULE SHEET S0.3



1 ENLARGED FIRST FLOOR FRAMING / SLAB PLAN - NORTH AREA
S2.8 1/8" = 1'-0"

REV	DATE	DESCRIPTION	BY

REVISIONS

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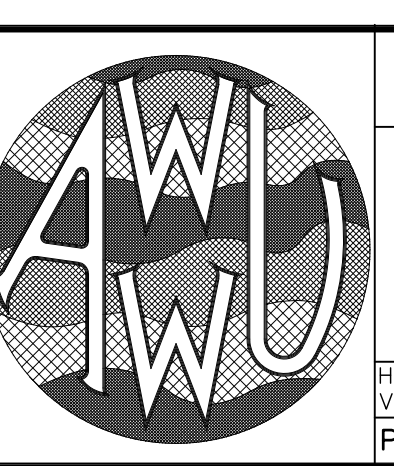
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Jared F. Keyser
No. SE-13425
REGISTERED PROFESSIONAL ENGINEER
SEAL



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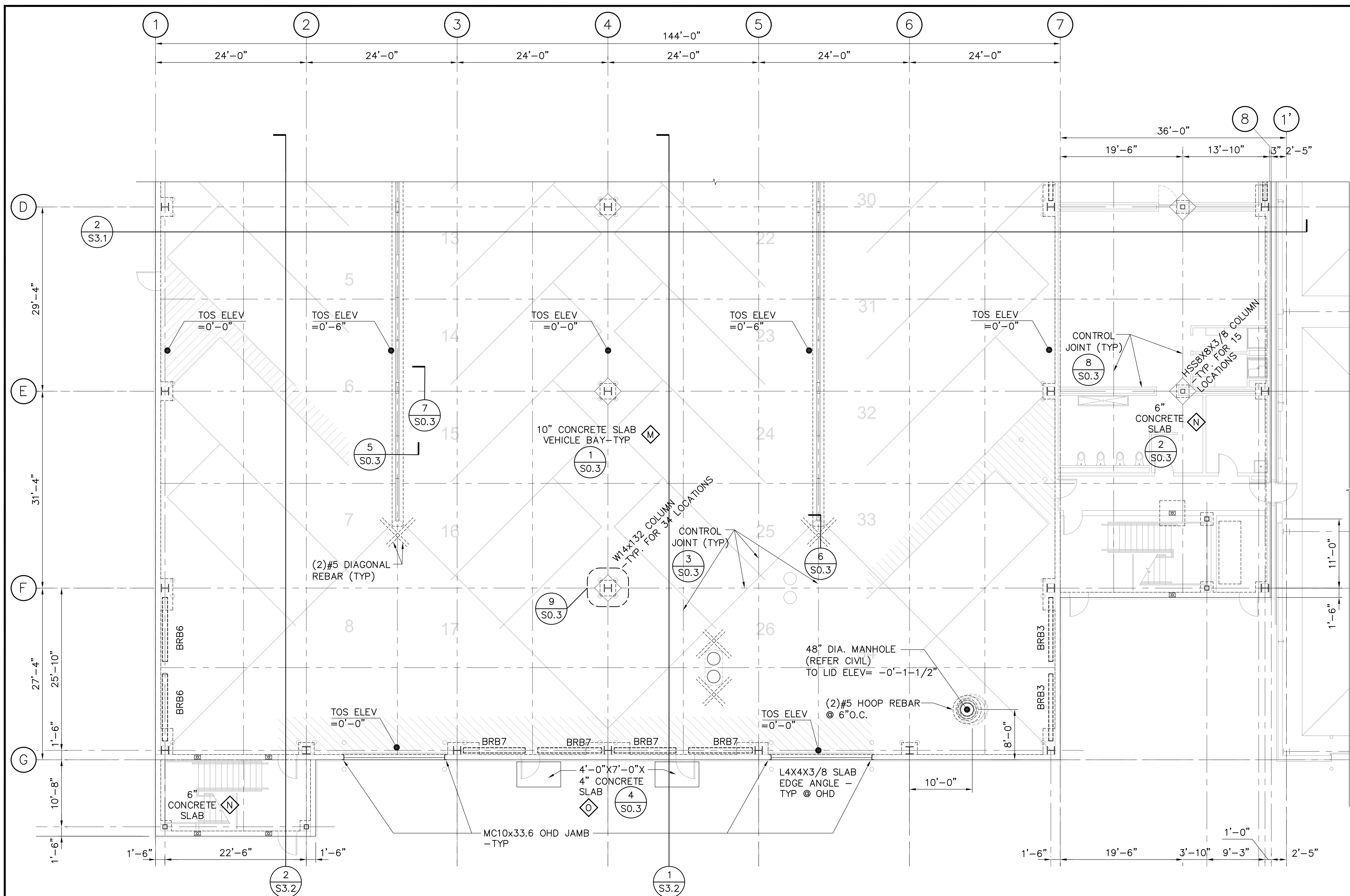
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

ENLARGED FIRST FLOOR FRAMING / SLAB PLAN - NORTH AREA

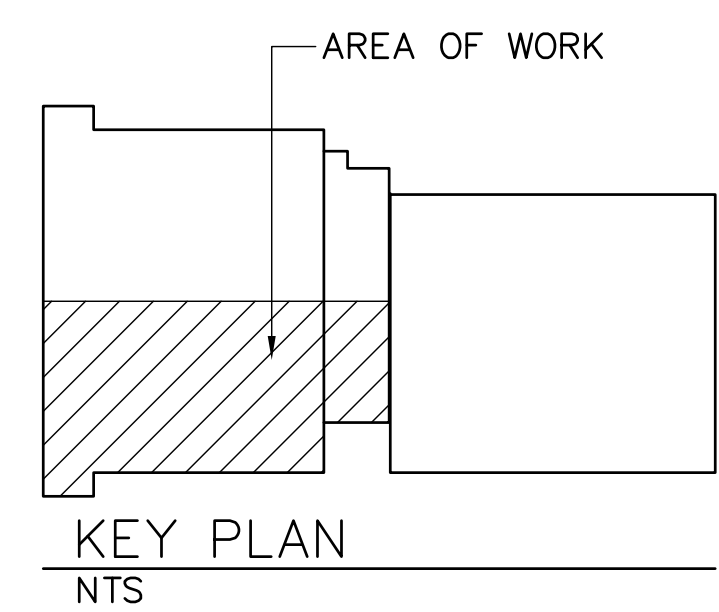
HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG S2.8

SHEET 153 of 288



◇ FOUNDATION MARK
REFER FOUNDATION
SCHEDULE SHEET S0.3



1 ENLARGED FIRST FLOOR FRAMING / SLAB PLAN - SOUTH AREA
S2.9 1/8" = 1'-0"

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

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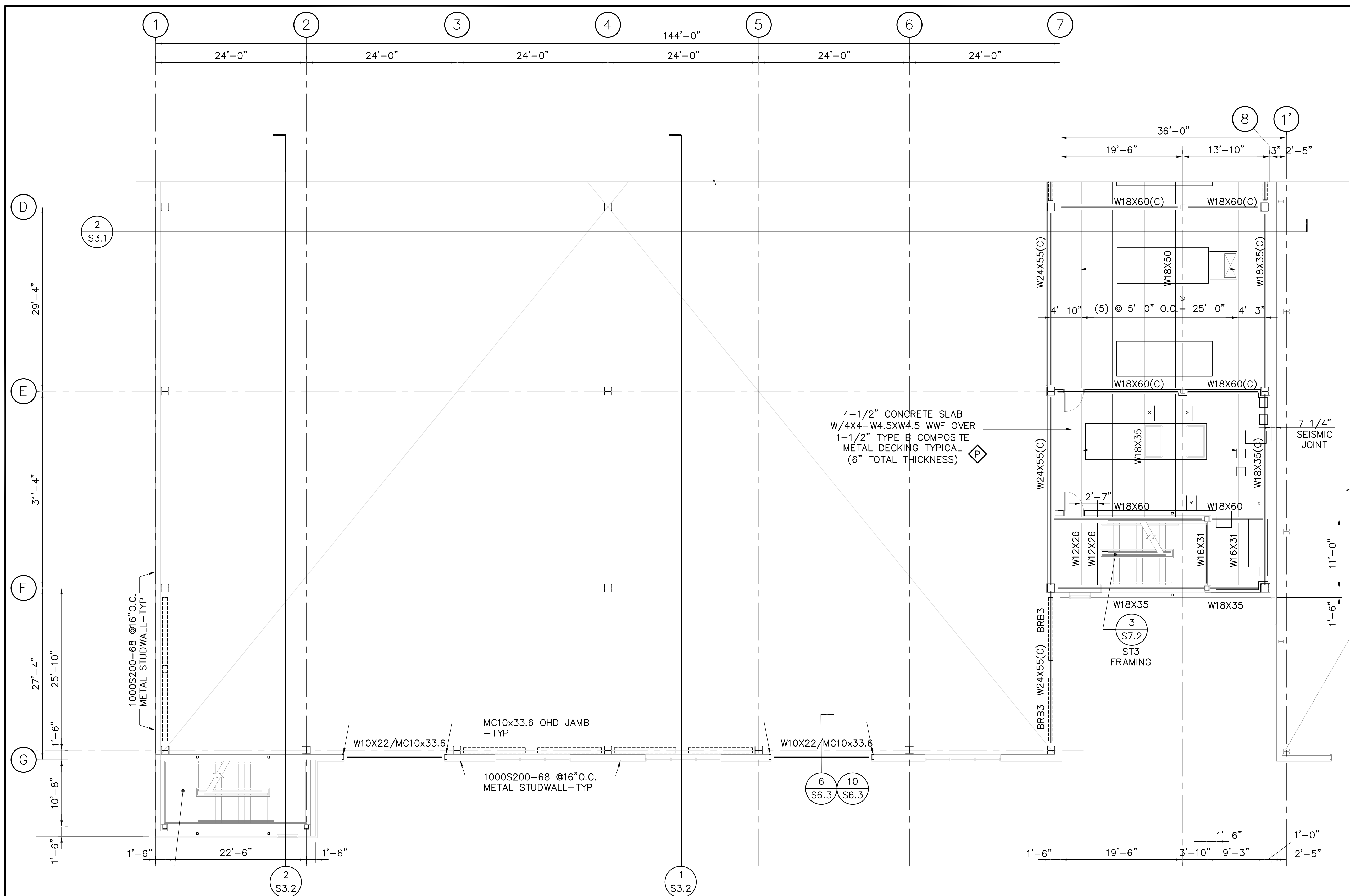
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

ENLARGED FIRST FLOOR FRAMING / SLAB PLAN - SOUTH AREA

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG
S2.9
SHEET 154 of 288

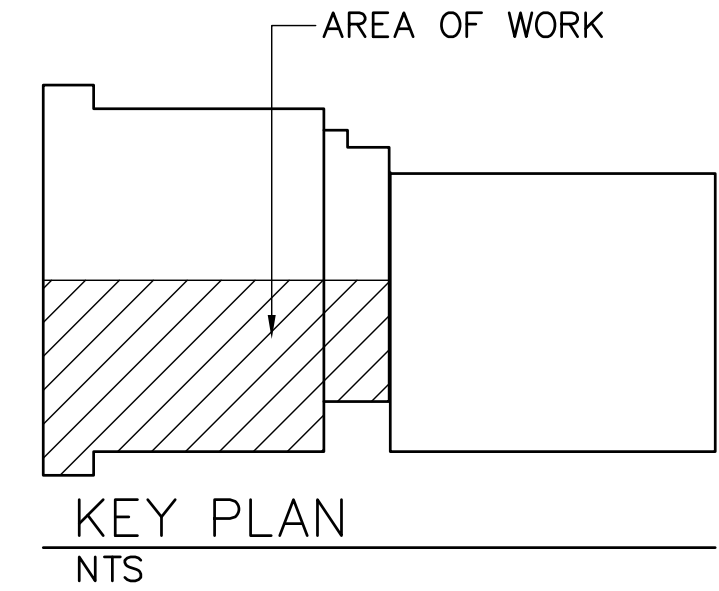


C - COLLECTOR BEAM

◇ CONCRETE SLAB MARK
REFER FOUNDATION
SCHEDULE SHEET S0.3

4-1/2" CONCRETE SLAB
W/4x4-W4.5xW4.5 WWF OVER
1-1/2" TYPE B COMPOSITE
METAL DECKING TYPICAL
(6" TOTAL THICKNESS) ◇

3
S7.2
ST3
FRAMING



1 ENLARGED MEZZANINE FRAMING PLAN - SOUTH AREA
S2.11 1/8" = 1'-0"

REV	DATE	DESCRIPTION	BY

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No. SE-13425
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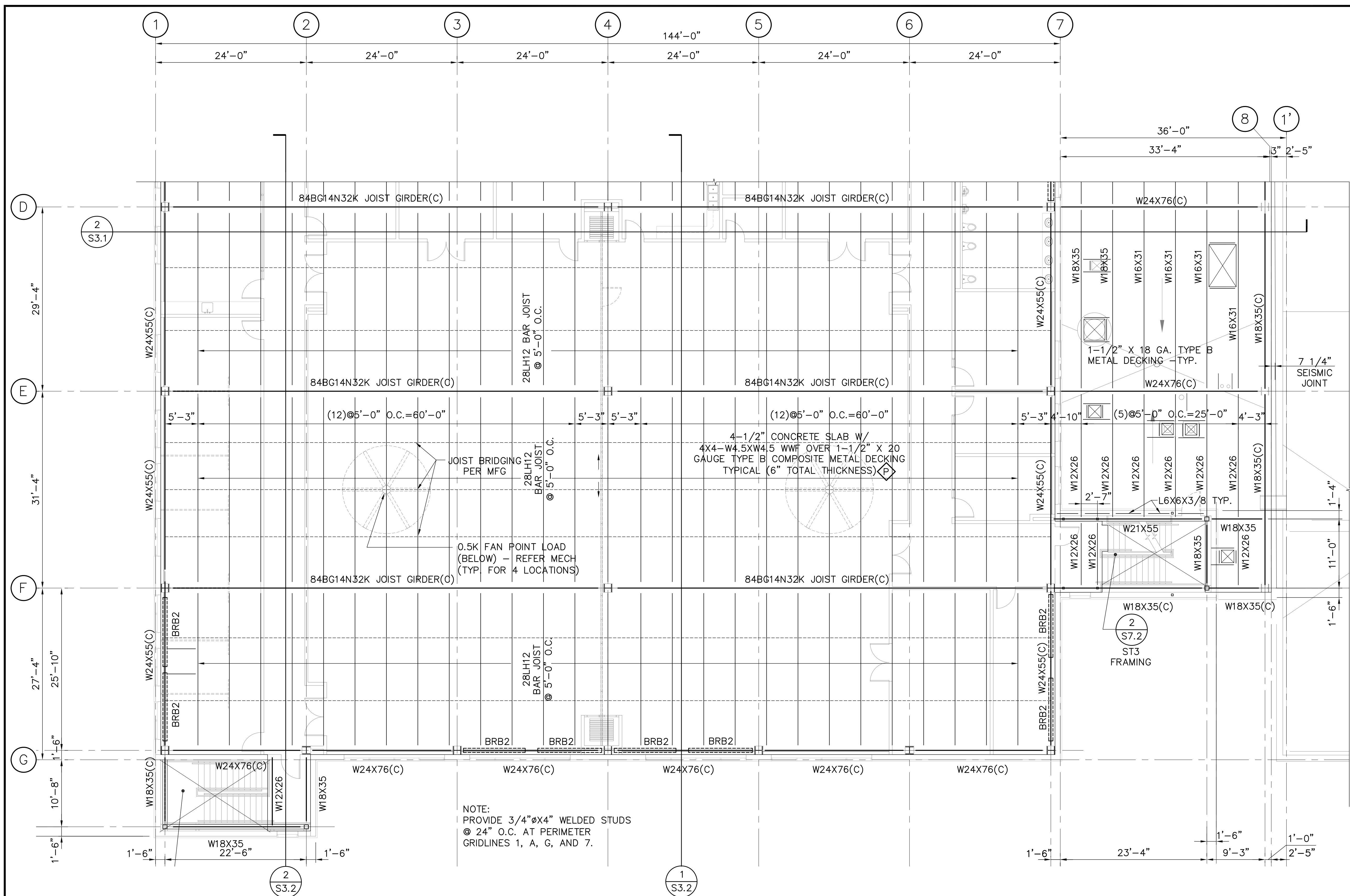
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

ENLARGED MEZZANINE FRAMING PLAN - SOUTH AREA S2.11

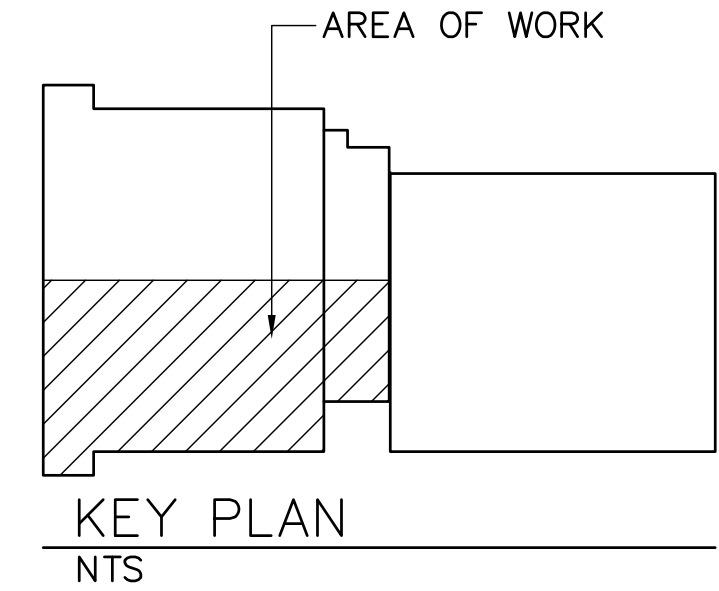
HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG SHEET 156 of 288



C - COLLECTOR BEAM

CONCRETE SLAB MARK REFER FOUNDATION SCHEDULE SHEET S0.3



1 ENLARGED SECOND FLOOR / ROOF FRAMING PLAN - SOUTH AREA
S2.13 1/8" = 1'-0"

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

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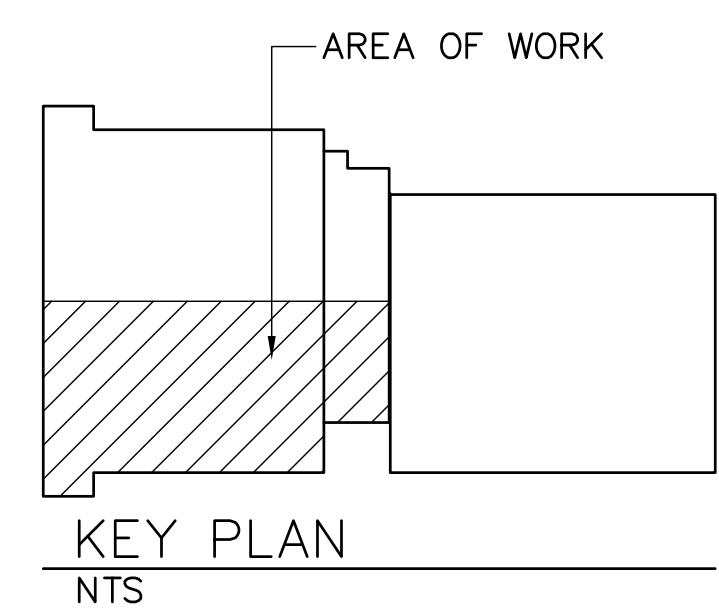
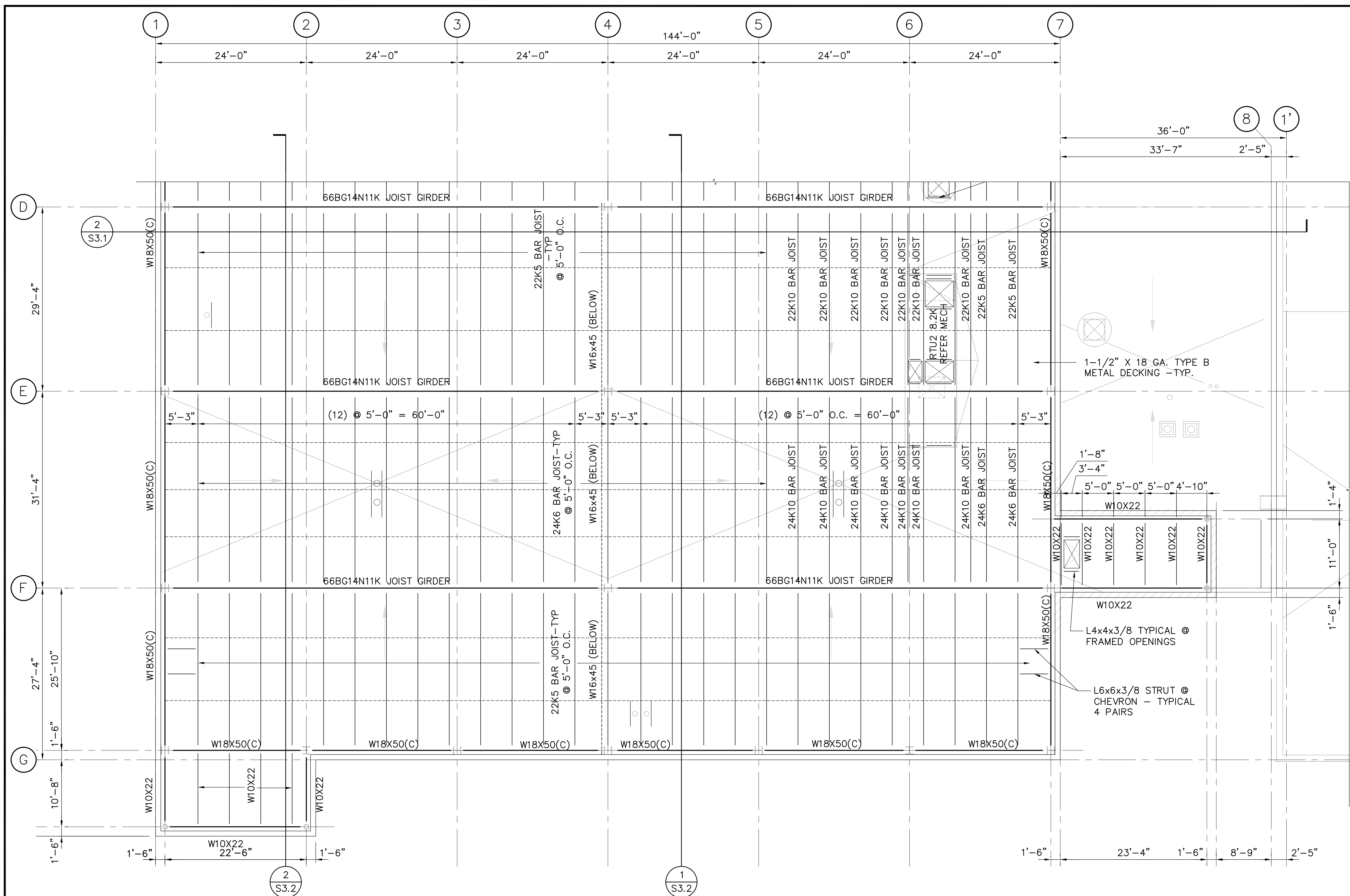
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

ENLARGED SECOND FLOOR / ROOF FRAMING PLAN - SOUTH AREA

DATE: APRIL 2021 GRID: SW 2431
PROJ. ID.: WW.H7775

DWG
S2.13
SHEET 158 of 288

C - COLLECTOR BEAM



1 ENLARGED ROOF FRAMING PLAN - SOUTH AREA
S2.15 1/8" = 1'-0"

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

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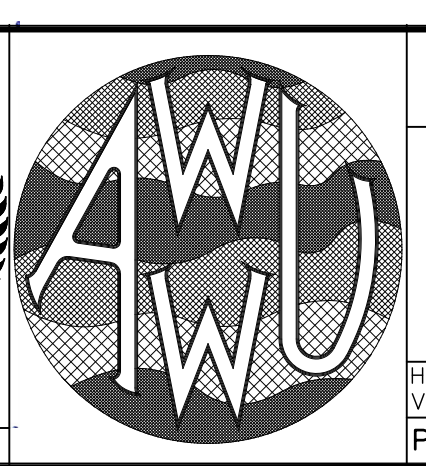
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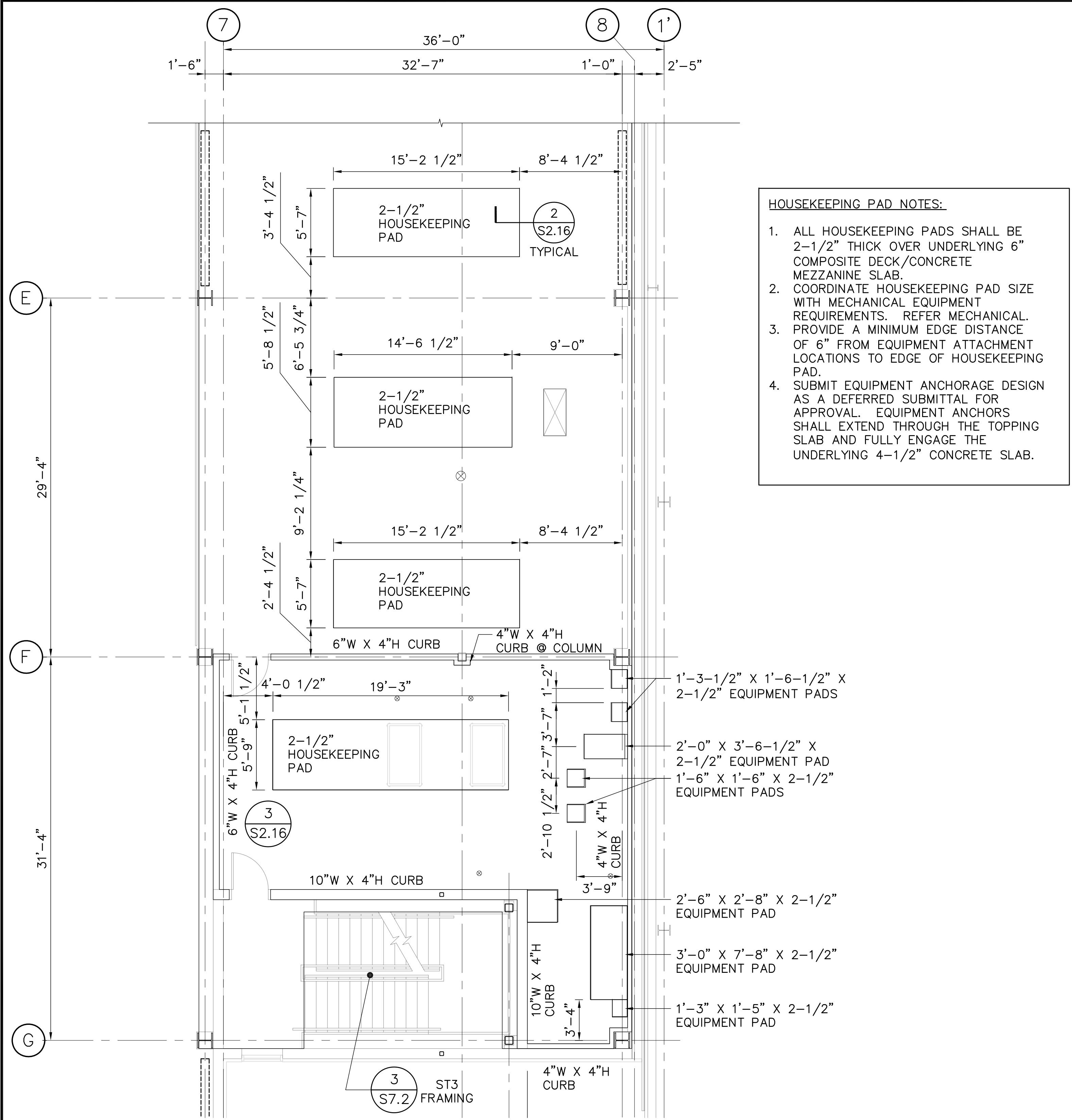
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

ENLARGED ROOF FRAMING PLAN - SOUTH AREA

S2.15

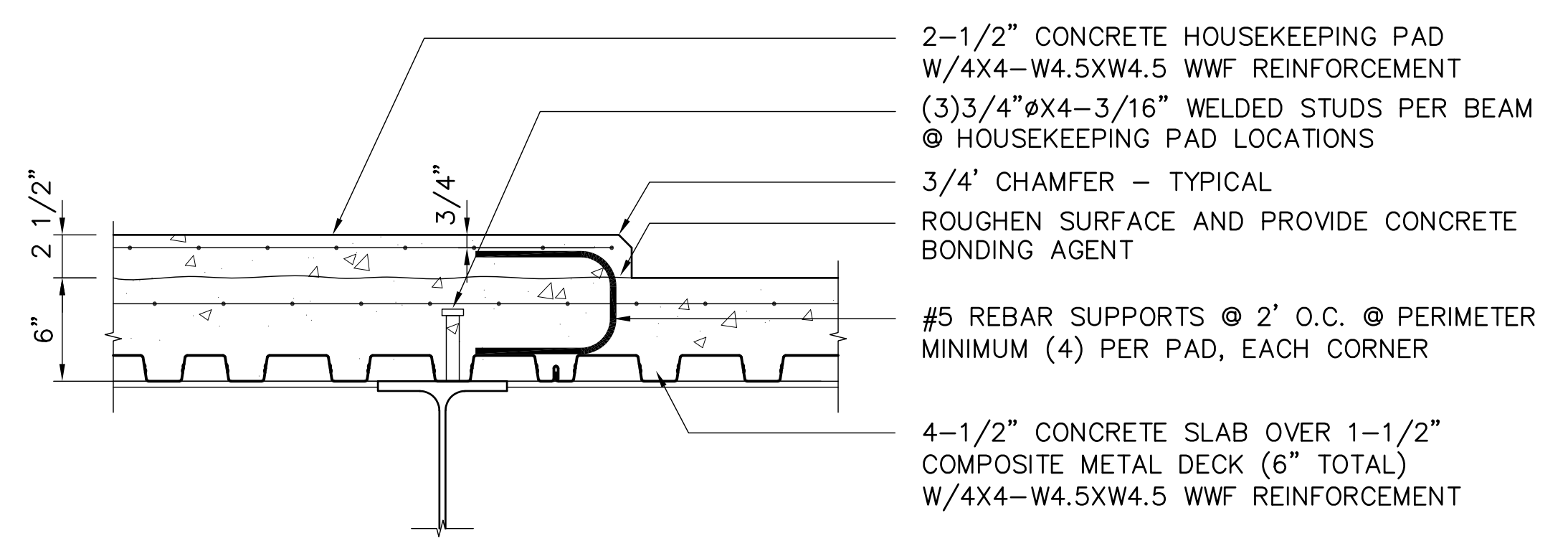
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VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG SHEET 160 of 288

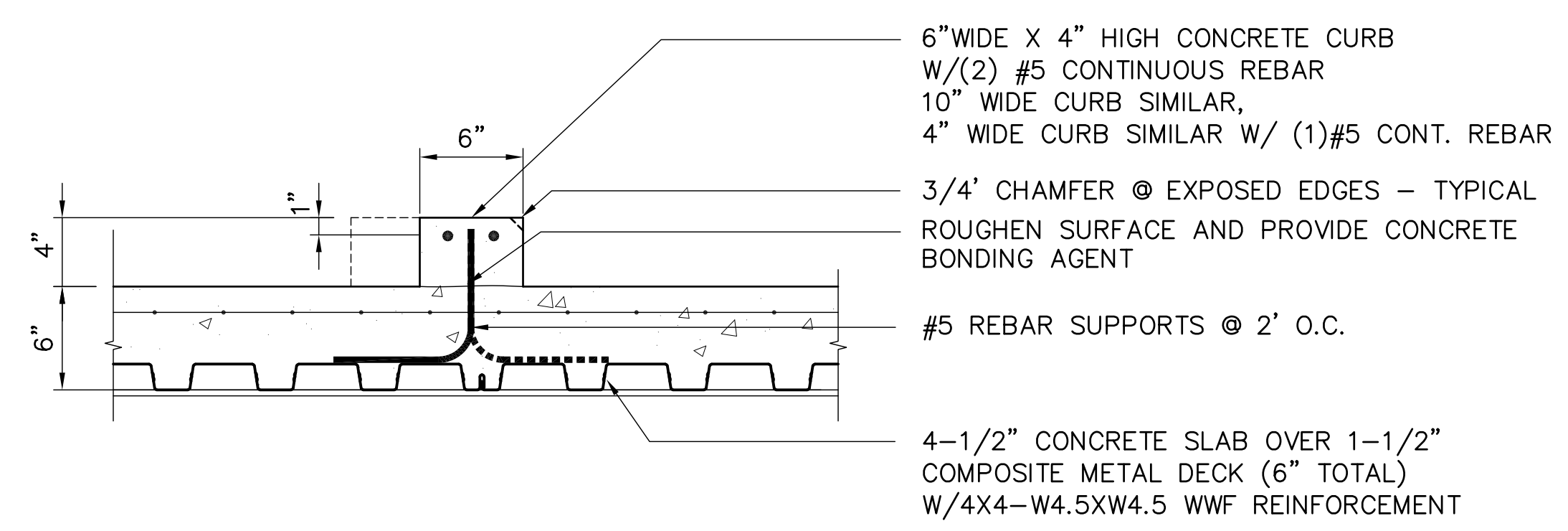


HOUSEKEEPING PAD NOTES:

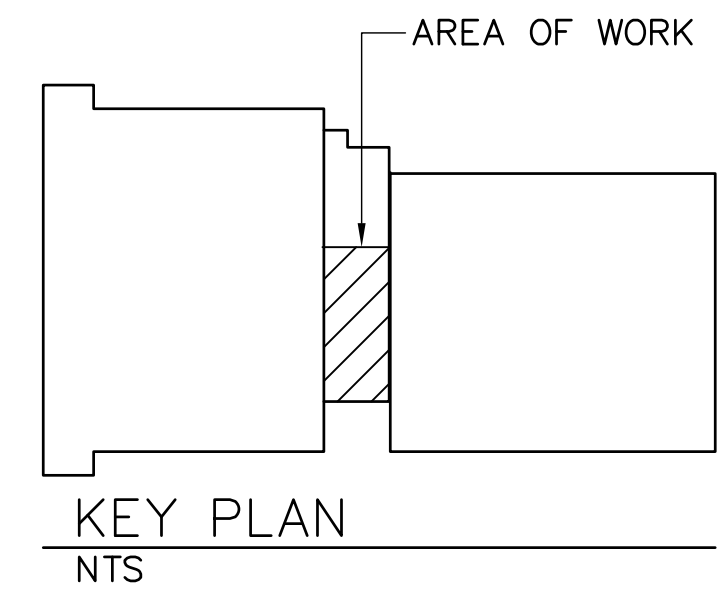
1. ALL HOUSEKEEPING PADS SHALL BE 2-1/2" THICK OVER UNDERLYING 6" COMPOSITE DECK/CONCRETE MEZZANINE SLAB.
2. COORDINATE HOUSEKEEPING PAD SIZE WITH MECHANICAL EQUIPMENT REQUIREMENTS. REFER MECHANICAL.
3. PROVIDE A MINIMUM EDGE DISTANCE OF 6" FROM EQUIPMENT ATTACHMENT LOCATIONS TO EDGE OF HOUSEKEEPING PAD.
4. SUBMIT EQUIPMENT ANCHORAGE DESIGN AS A DEFERRED SUBMITTAL FOR APPROVAL. EQUIPMENT ANCHORS SHALL EXTEND THROUGH THE TOPPING SLAB AND FULLY ENGAGE THE UNDERLYING 4-1/2" CONCRETE SLAB.



2 HOUSEKEEPING PAD DETAIL
S2.16 1-1/2" = 1'-0"



3 CURB DETAIL
S2.16 1-1/2" = 1'-0"



1 ENLARGED MEZZANINE CURB AND HOUSEKEEPING PAD PLAN - SOUTH AREA
S2.16 3/16" = 1'-0"

REV	DATE	DESCRIPTION	BY

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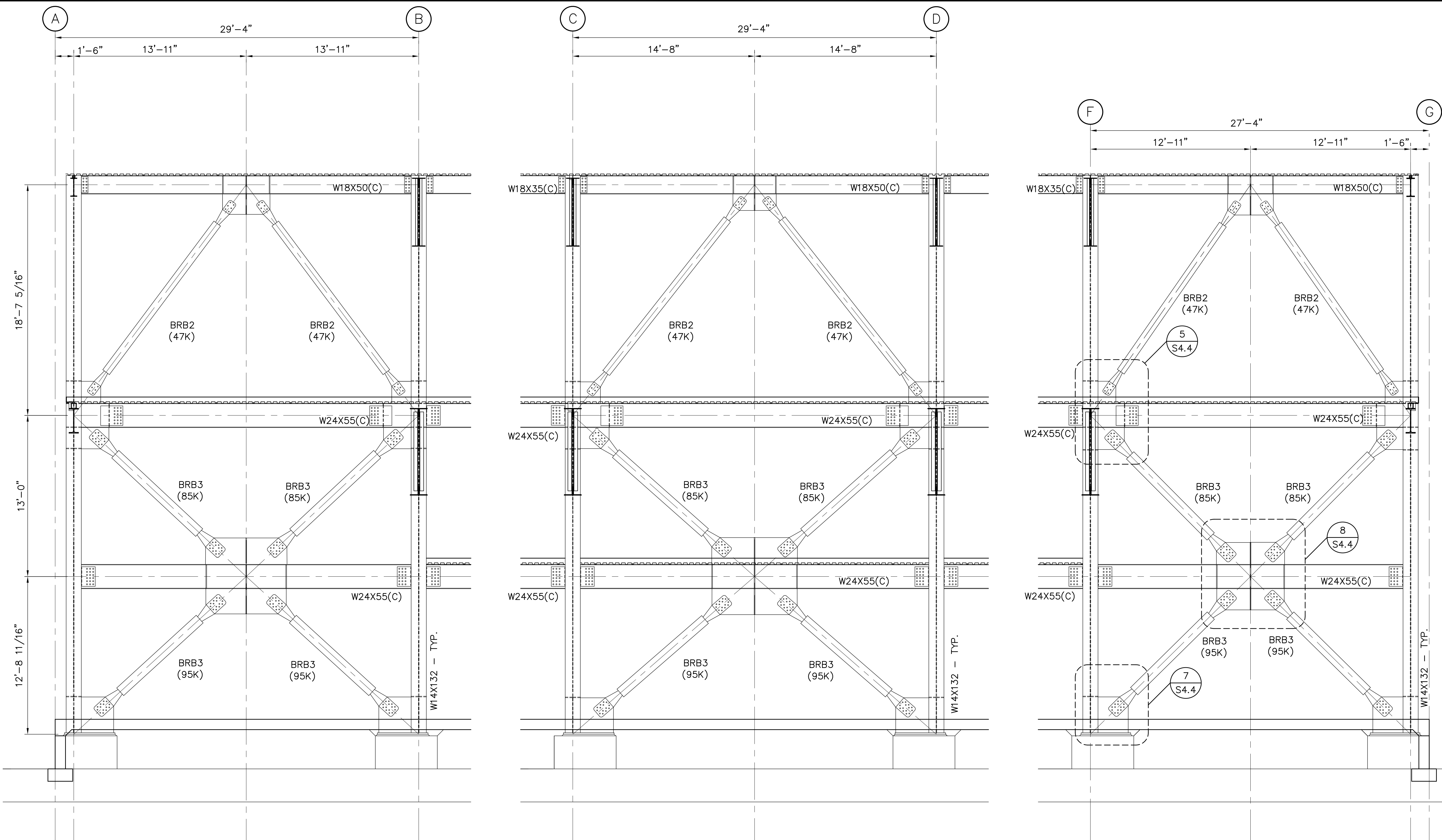
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

ENLARGED MEZZANINE CURB AND HOUSEKEEPING PAD PLAN, DETAILS

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG S2.16
SHEET 161 of 288



1 BRACE ELEVATION GRID 7
S4.2 1/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

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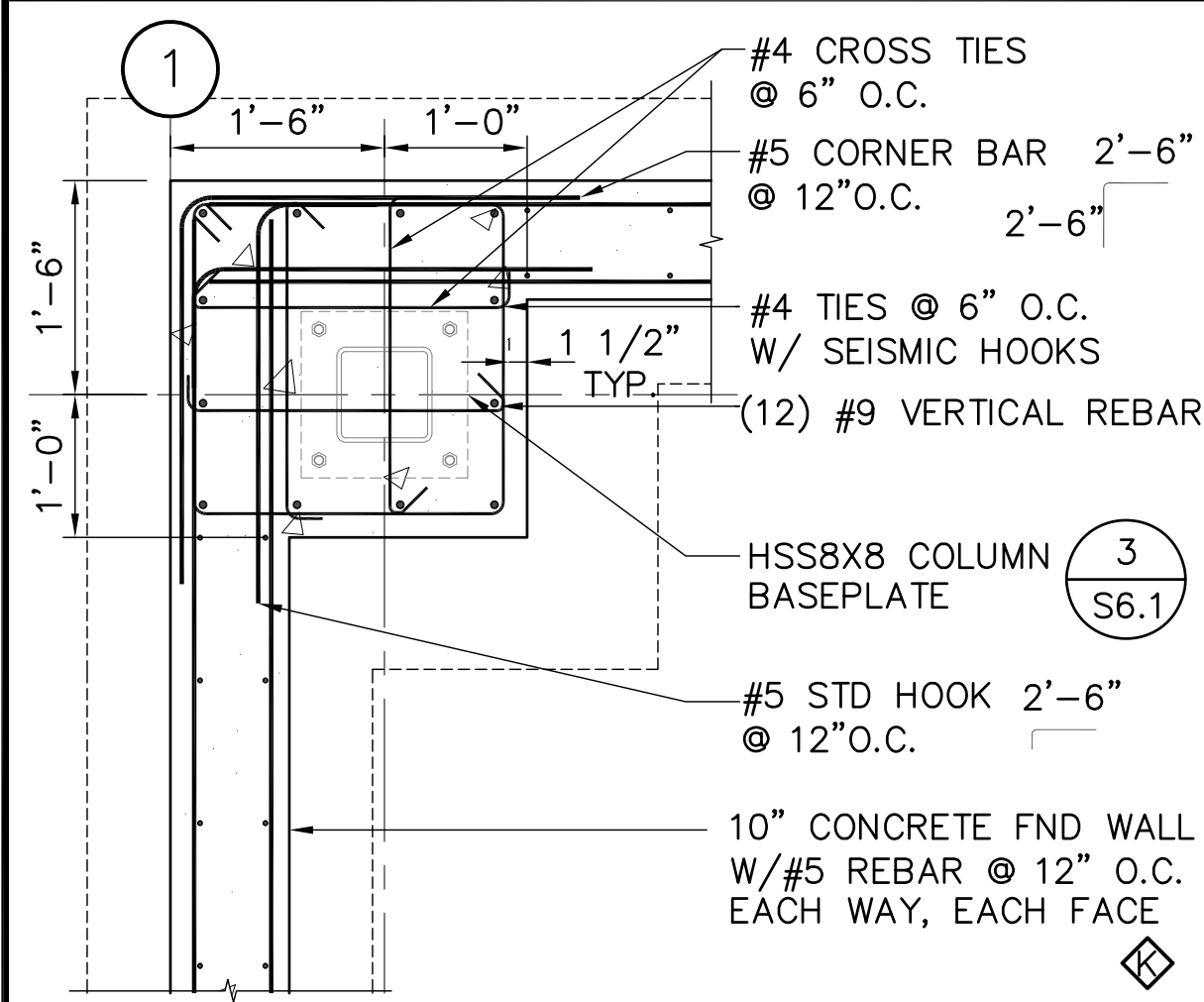
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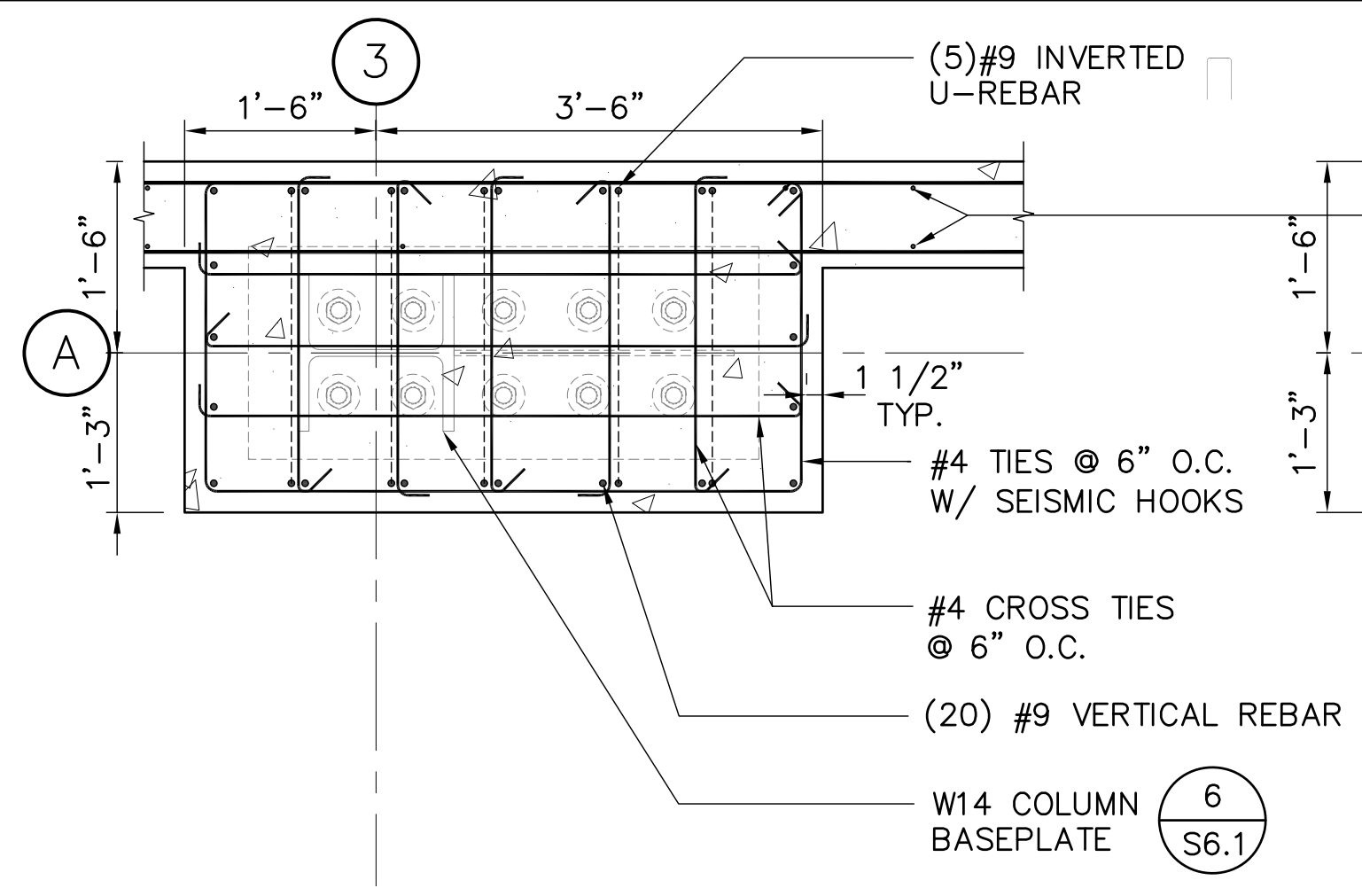
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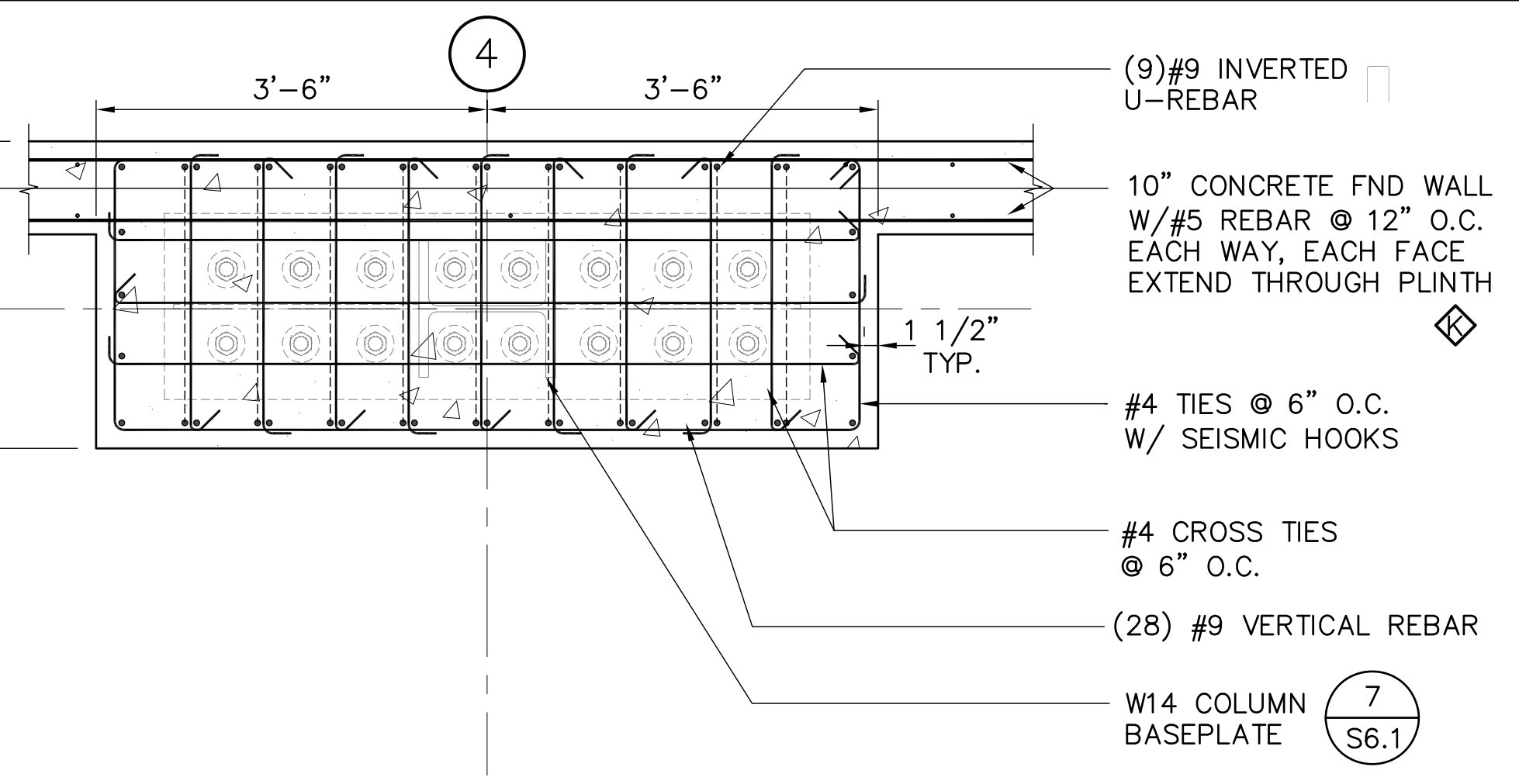
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BRACED FRAME ELEVATION - GRID 7
 DWG S4.2
 PROJ. ID.: WW.H7775
 SHEET 165 of 288



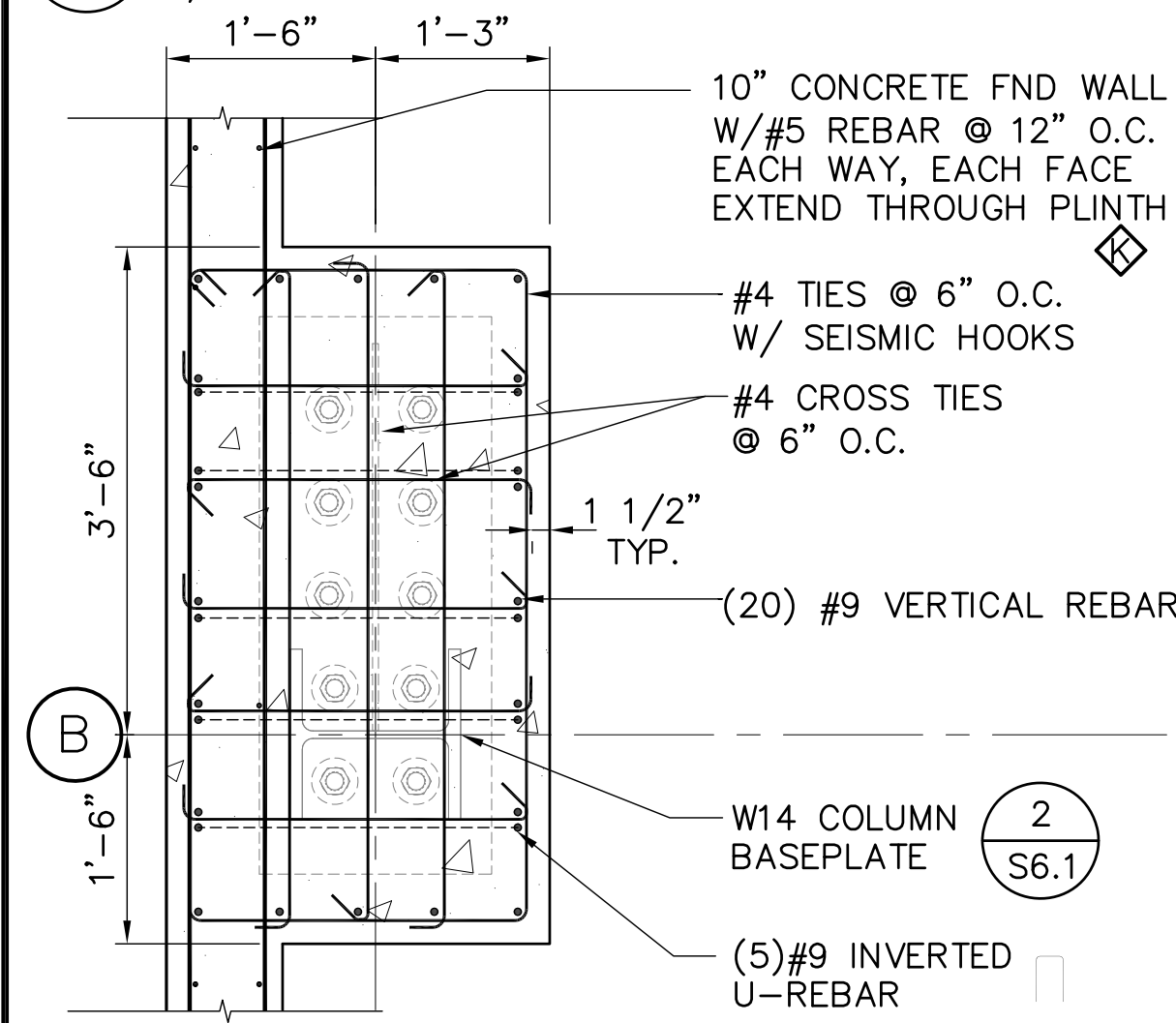
1 PLINTH 'E' CORNER DETAIL
S5.1 3/4" = 1'-0"



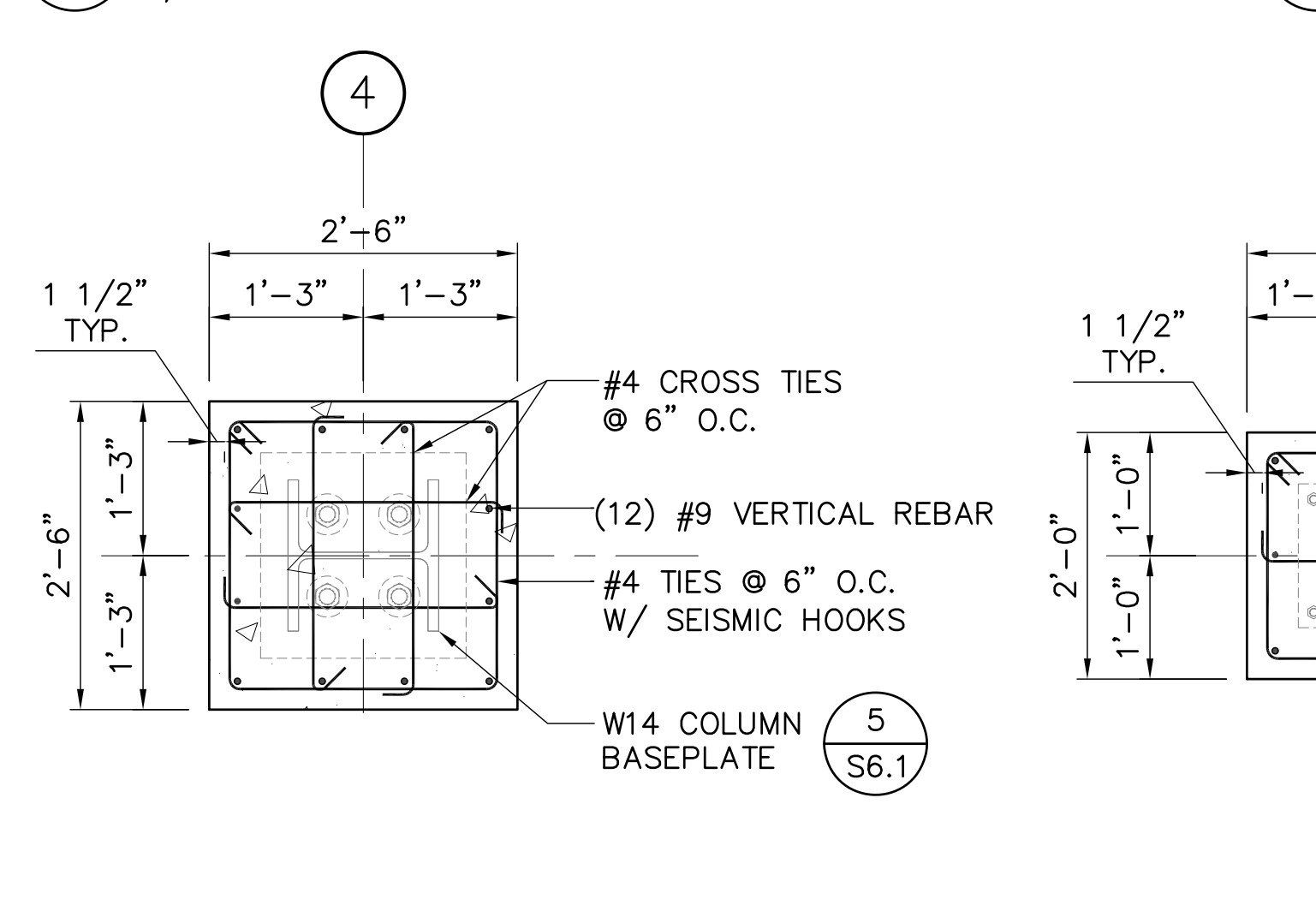
2 60" PLINTH 'C' DETAIL
S5.1 3/4" = 1'-0"



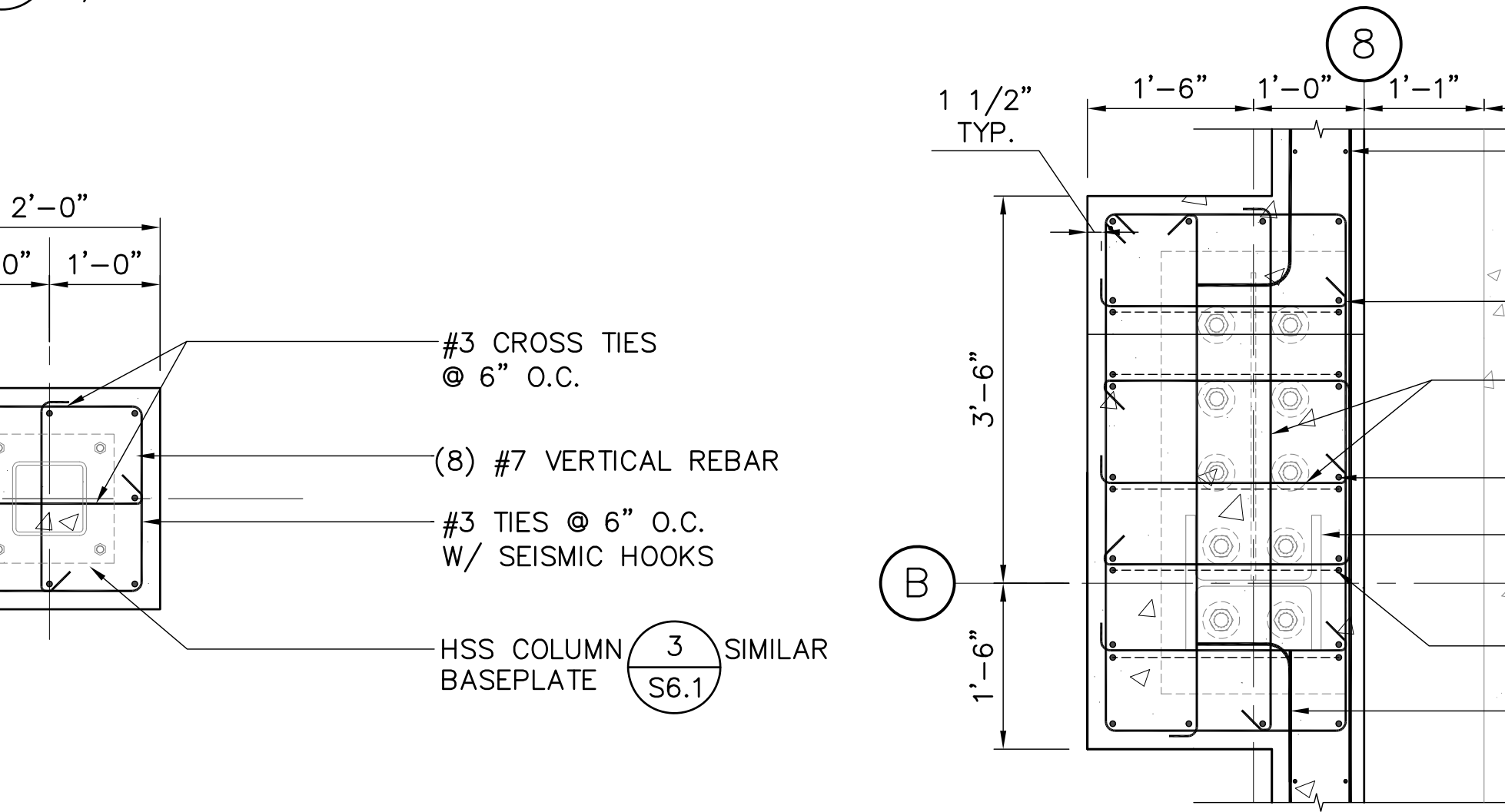
3 84" PLINTH 'C' DETAIL
S5.1 3/4" = 1'-0"



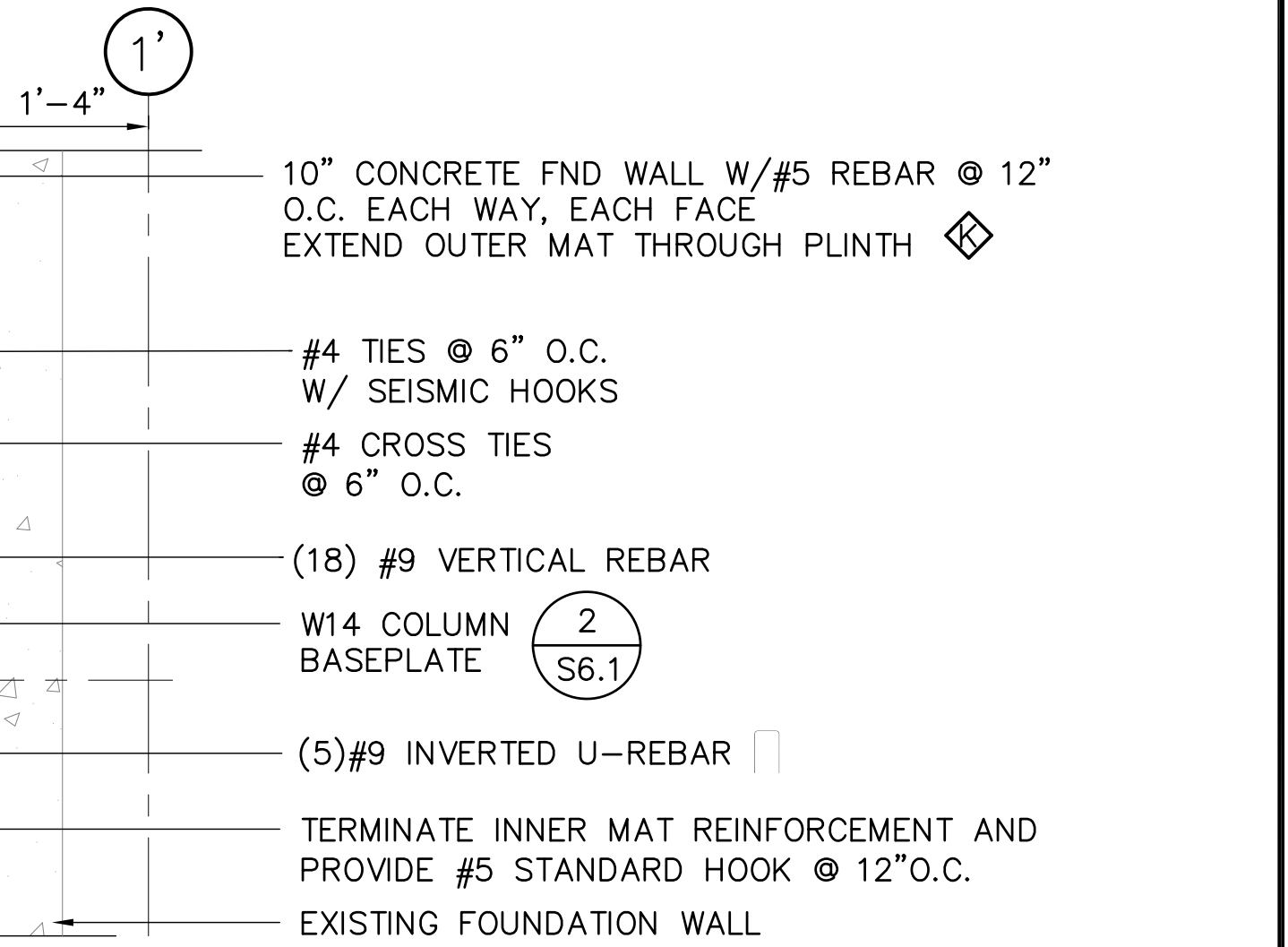
4 PLINTH 'D' DETAIL
S5.1 3/4" = 1'-0"



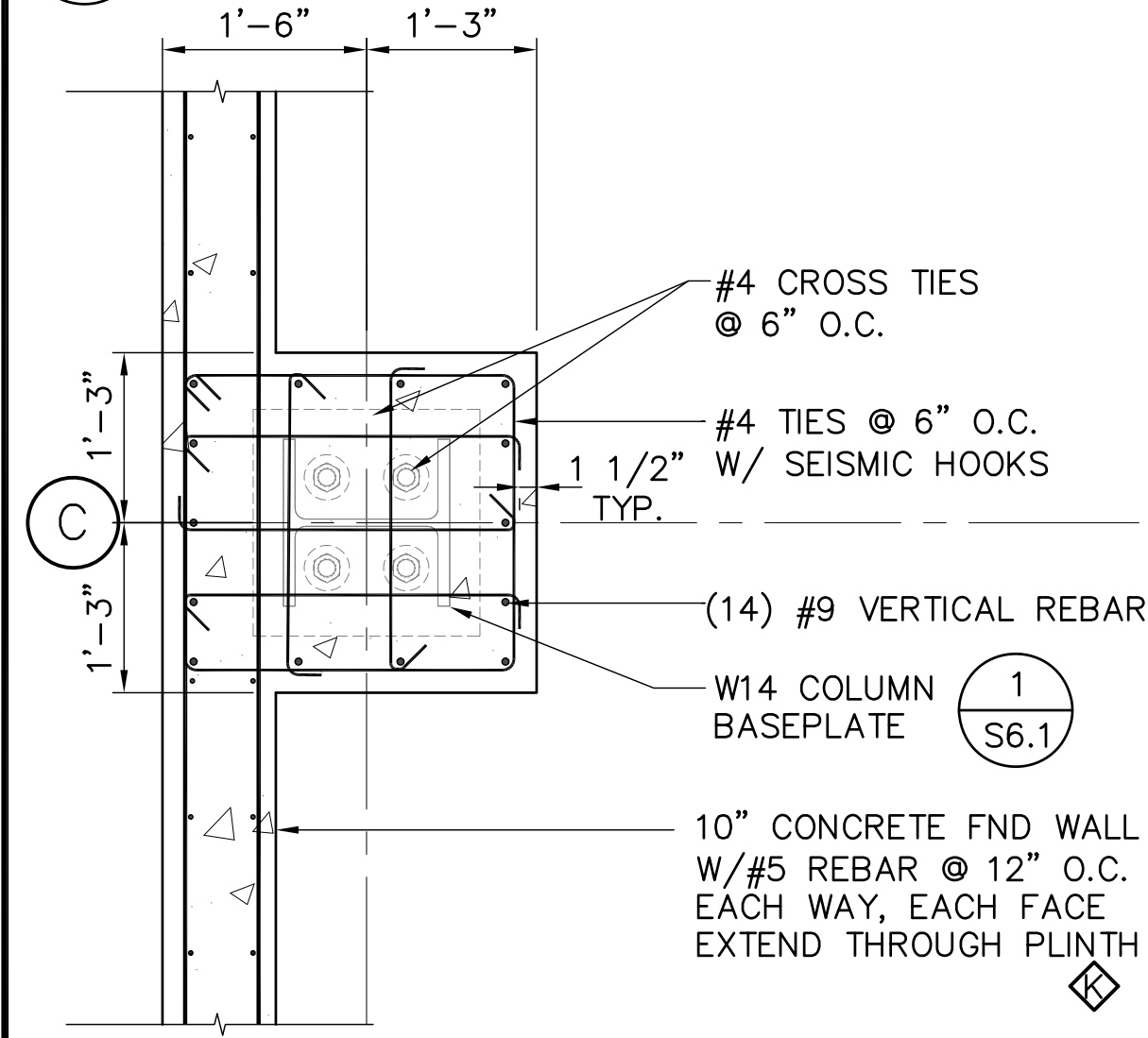
5 PLINTH 'A' DETAIL
S5.1 3/4" = 1'-0"



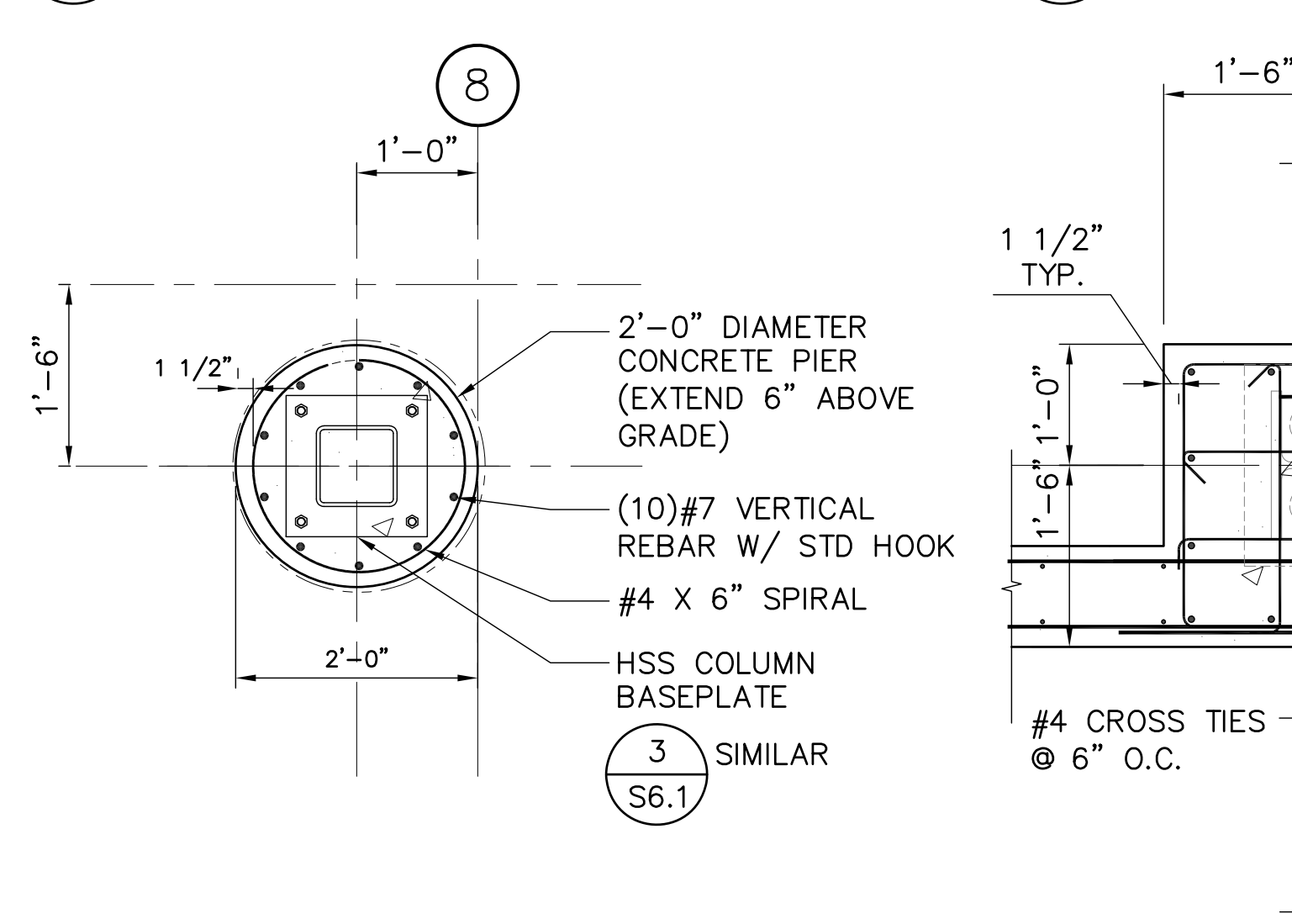
6 PLINTH 'F' DETAIL
S5.1 3/4" = 1'-0"



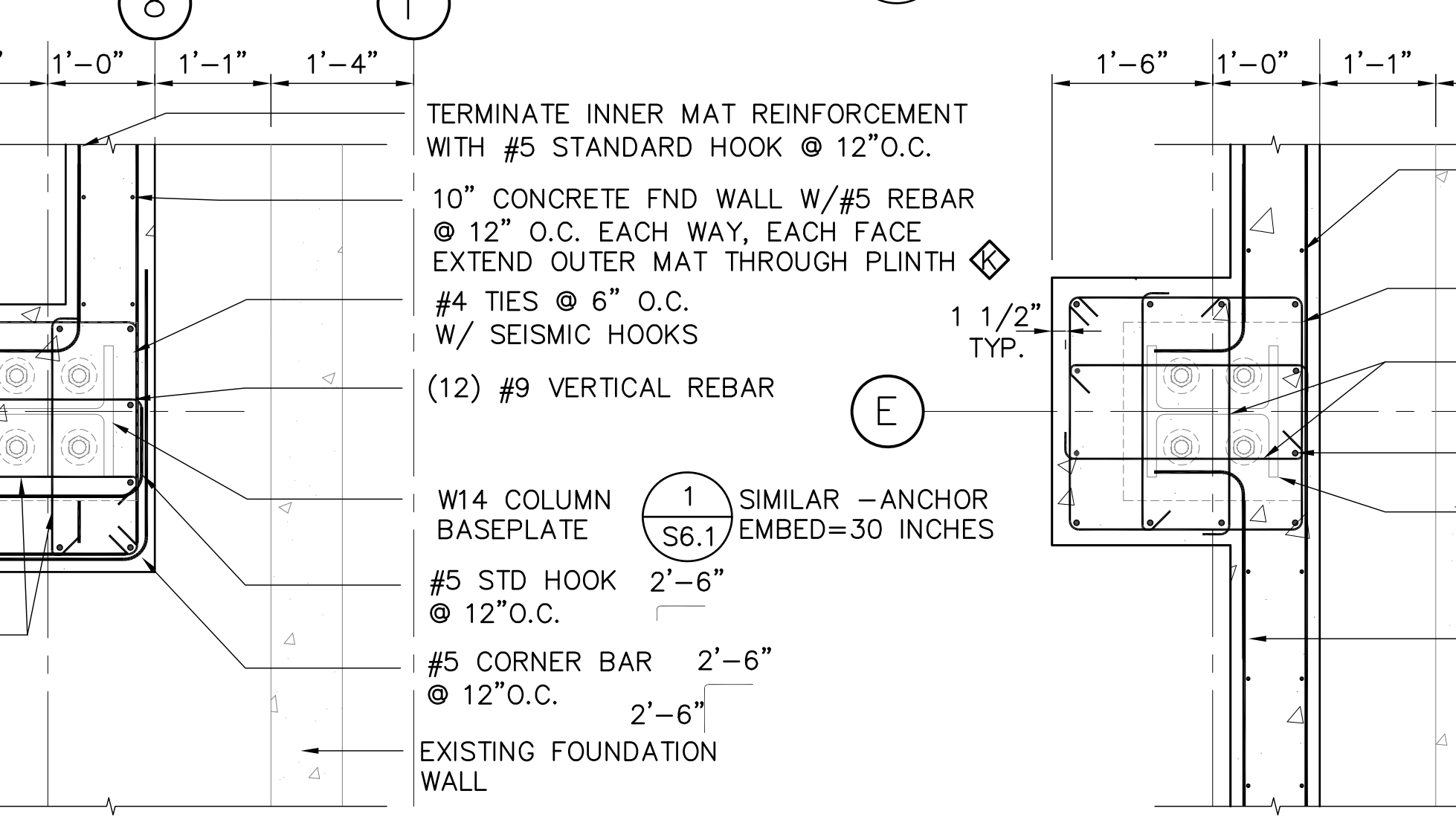
7 PLINTH 'G' DETAIL
S5.1 3/4" = 1'-0"



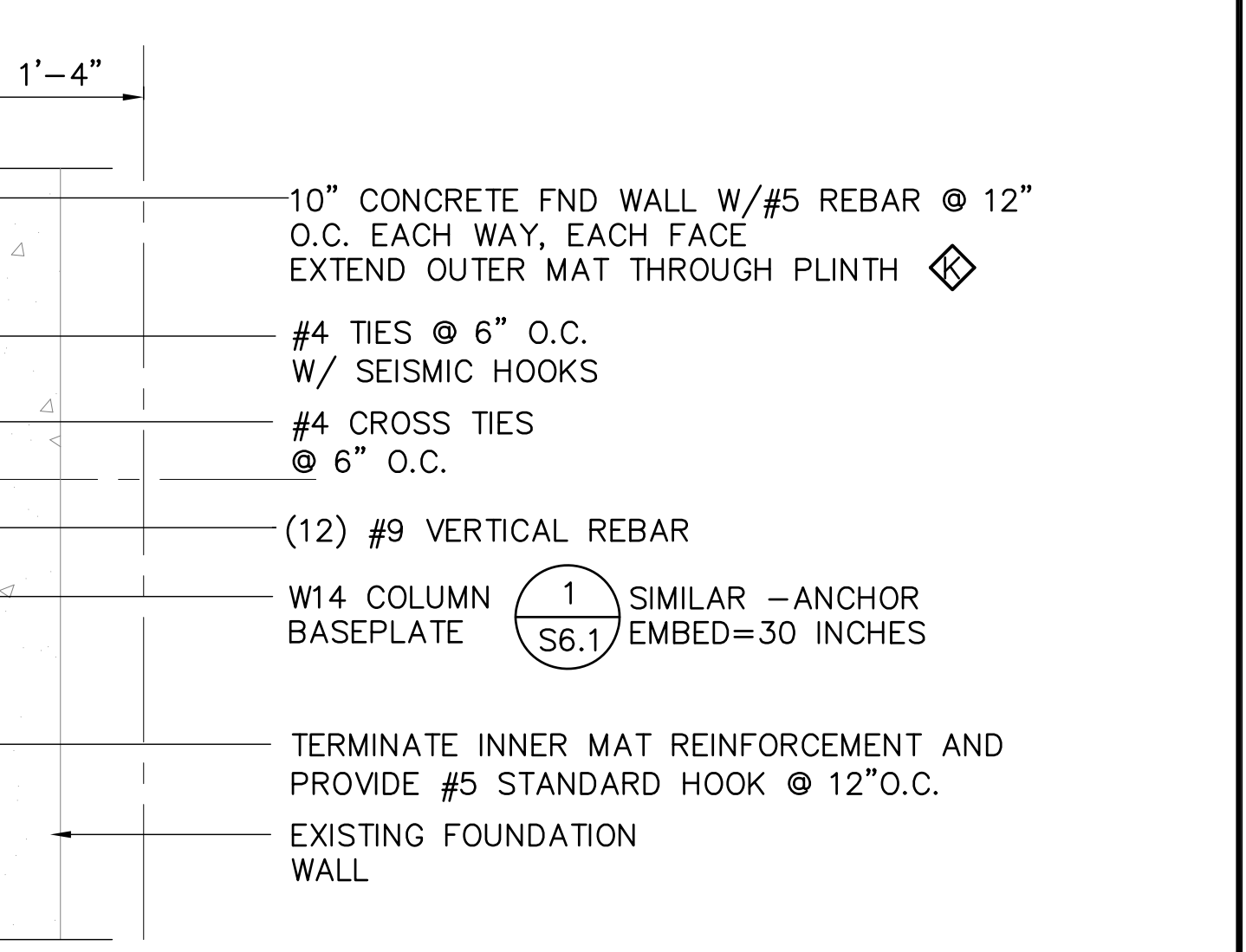
8 PLINTH 'B' DETAIL
S5.1 3/4" = 1'-0"



9 ENTRY COLUMN PIER E' DETAIL
S5.1 3/4" = 1'-0"



10 PLINTH 'H' CORNER DETAIL
S5.1 3/4" = 1'-0"



11 PLINTH 'H' DETAIL
S5.1 3/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

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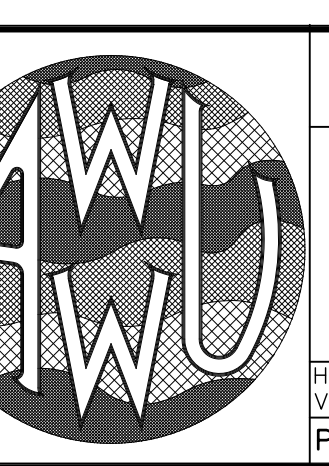
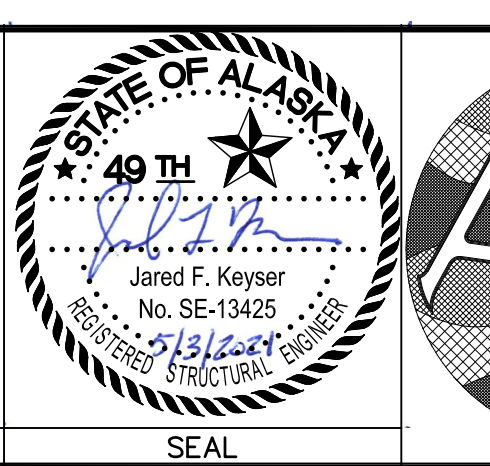
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

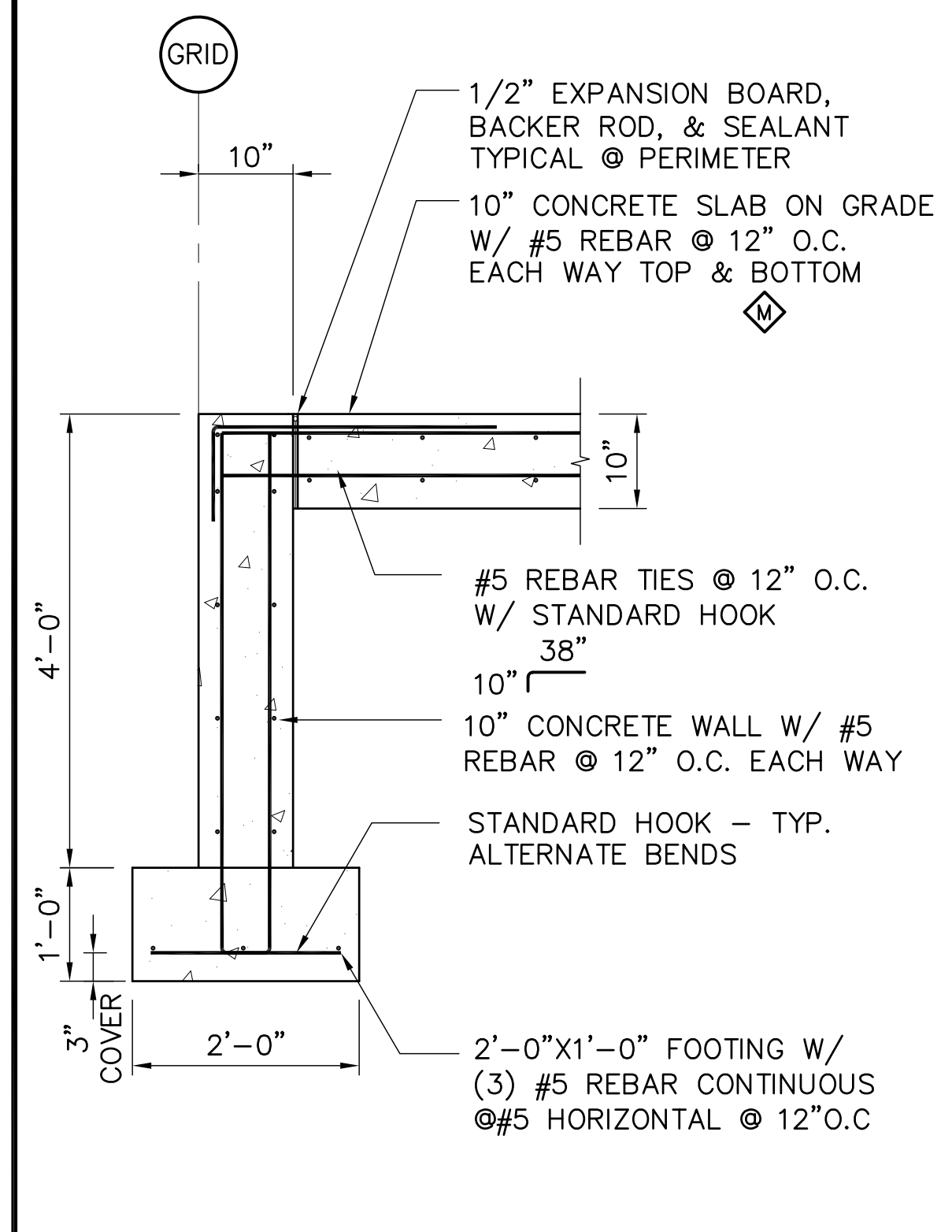
CONCRETE FOUNDATION DETAILS

SHEET 168 of 288

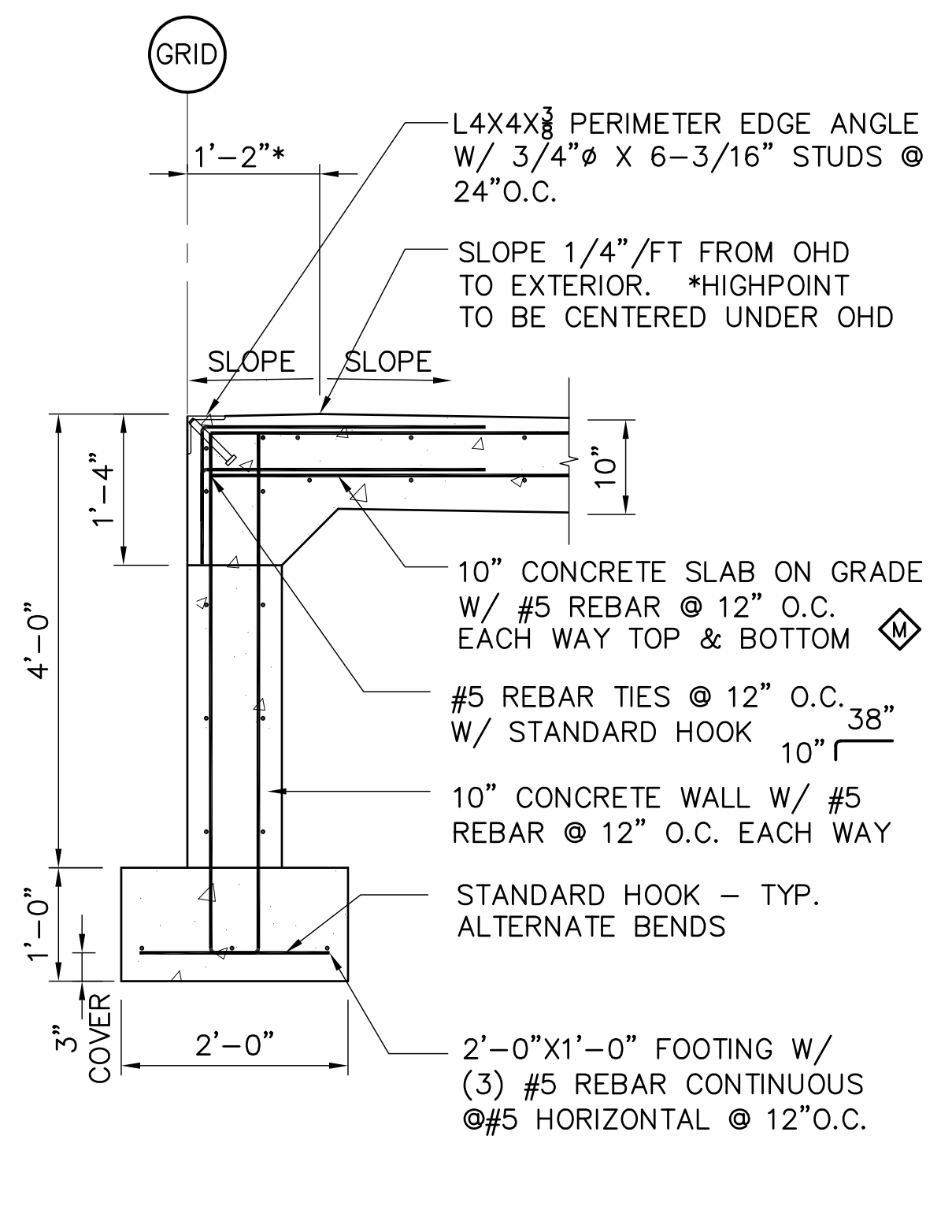
PROJ. ID.: WW.H7775

DATE: APRIL 2021

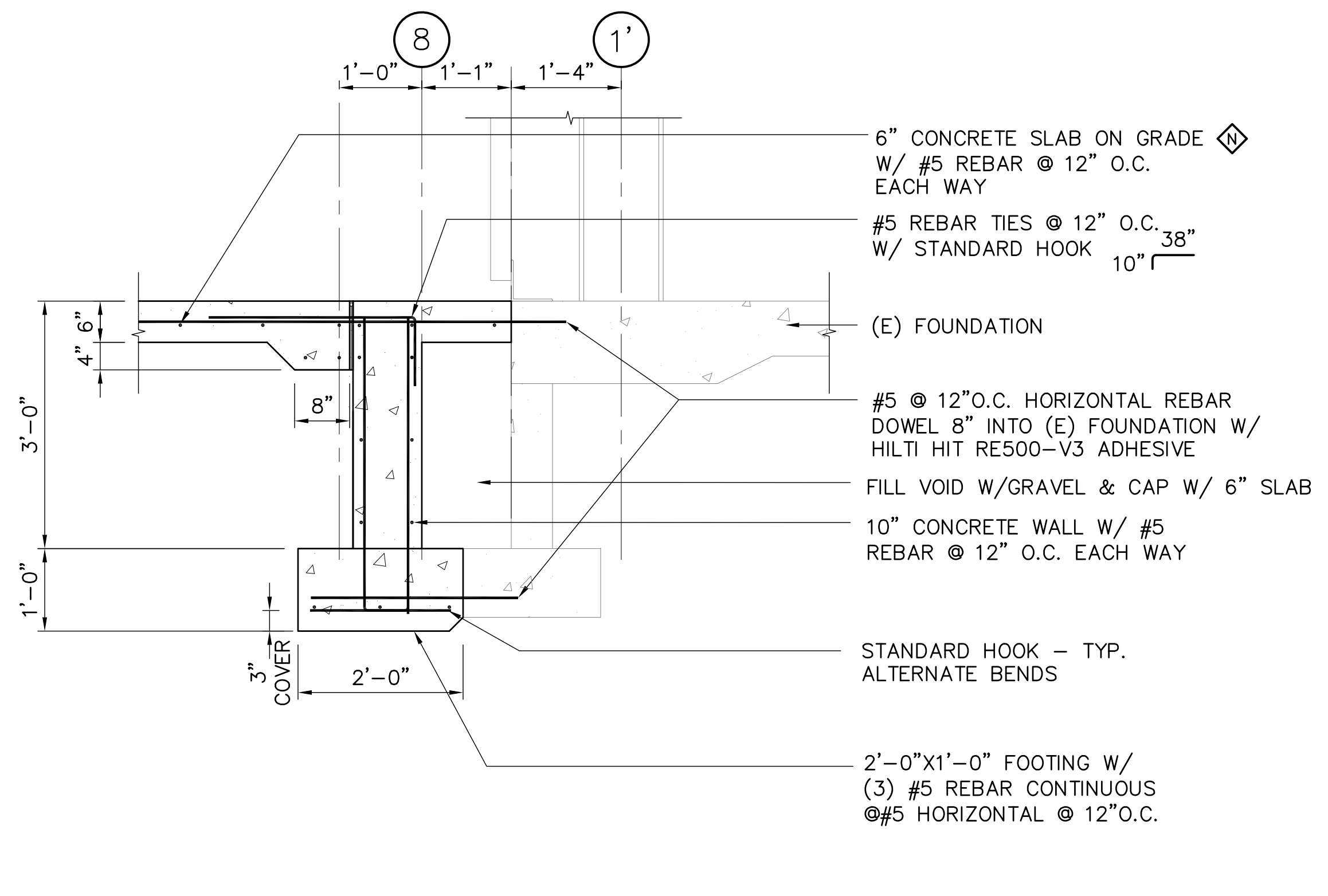
GRID: SW 2431



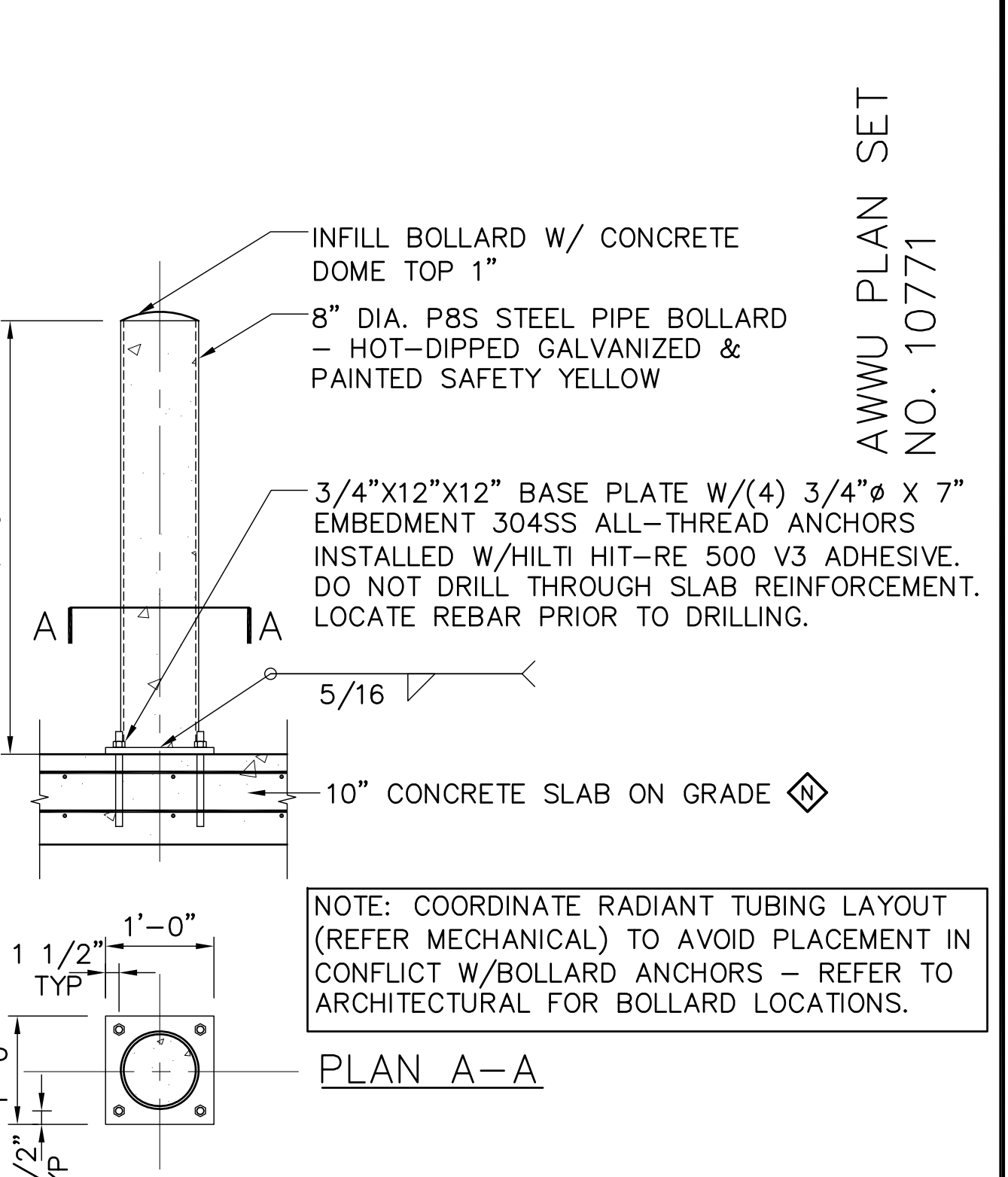
1 FOUNDATION WALL 'K' SECTION
S5.2 3/4" = 1'-0"



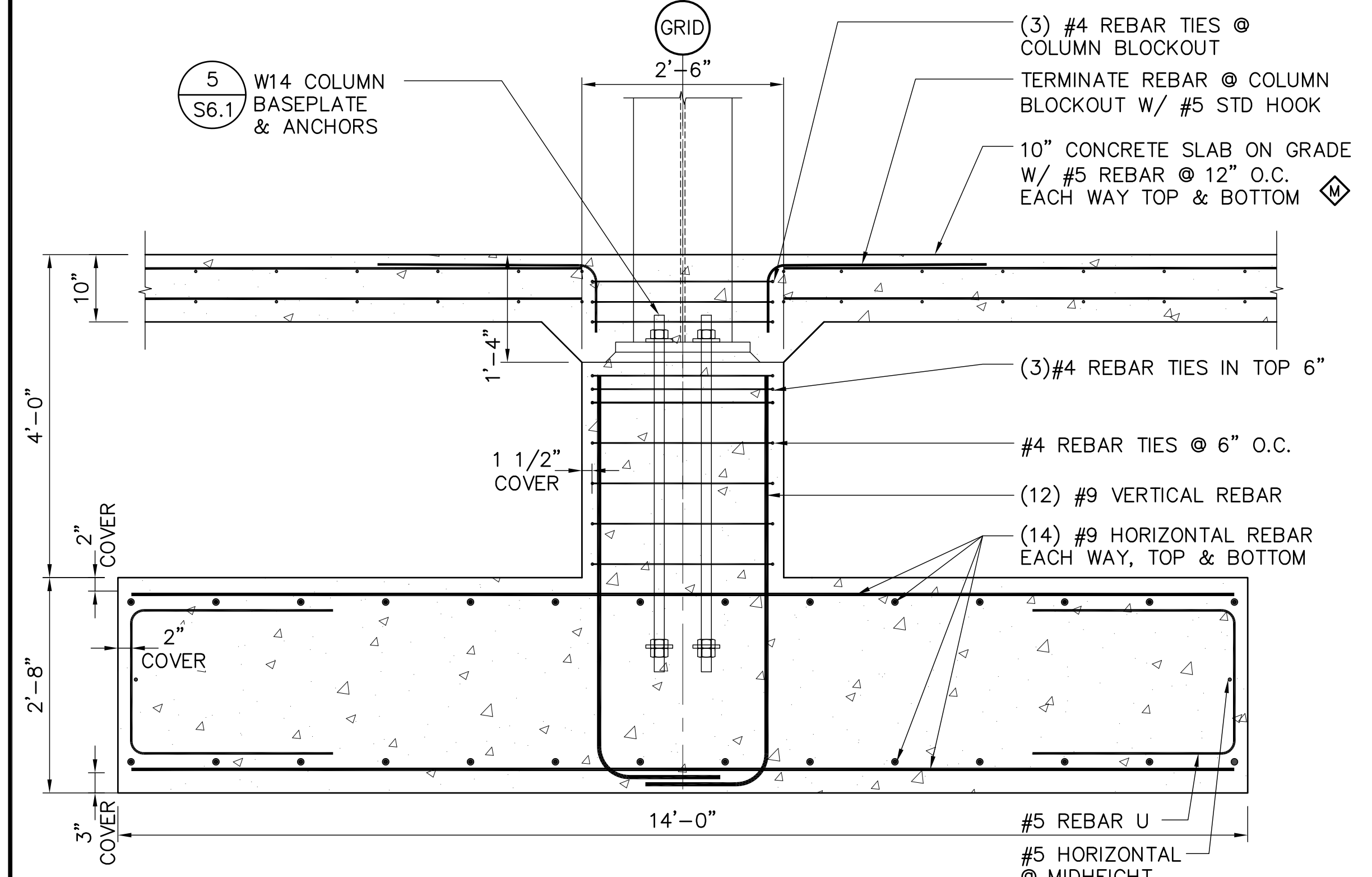
2 FOUNDATION WALL 'K' SECTION
S5.2 3/4" = 1'-0" AT OVERHEAD DOOR LOCATIONS



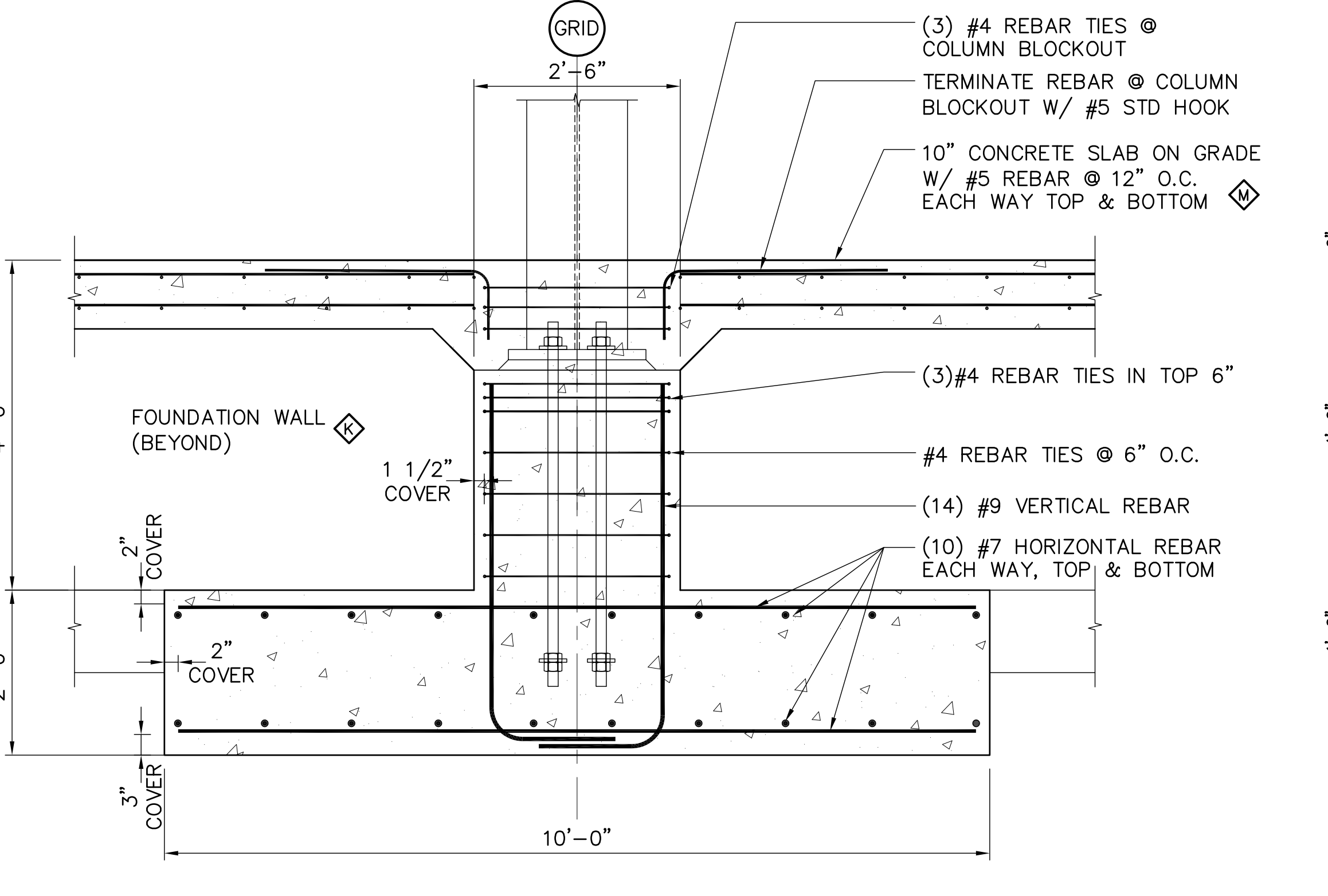
3 FOUNDATION WALL 'L' SECTION @ EXISTING BUILDING
S5.2 3/4" = 1'-0"



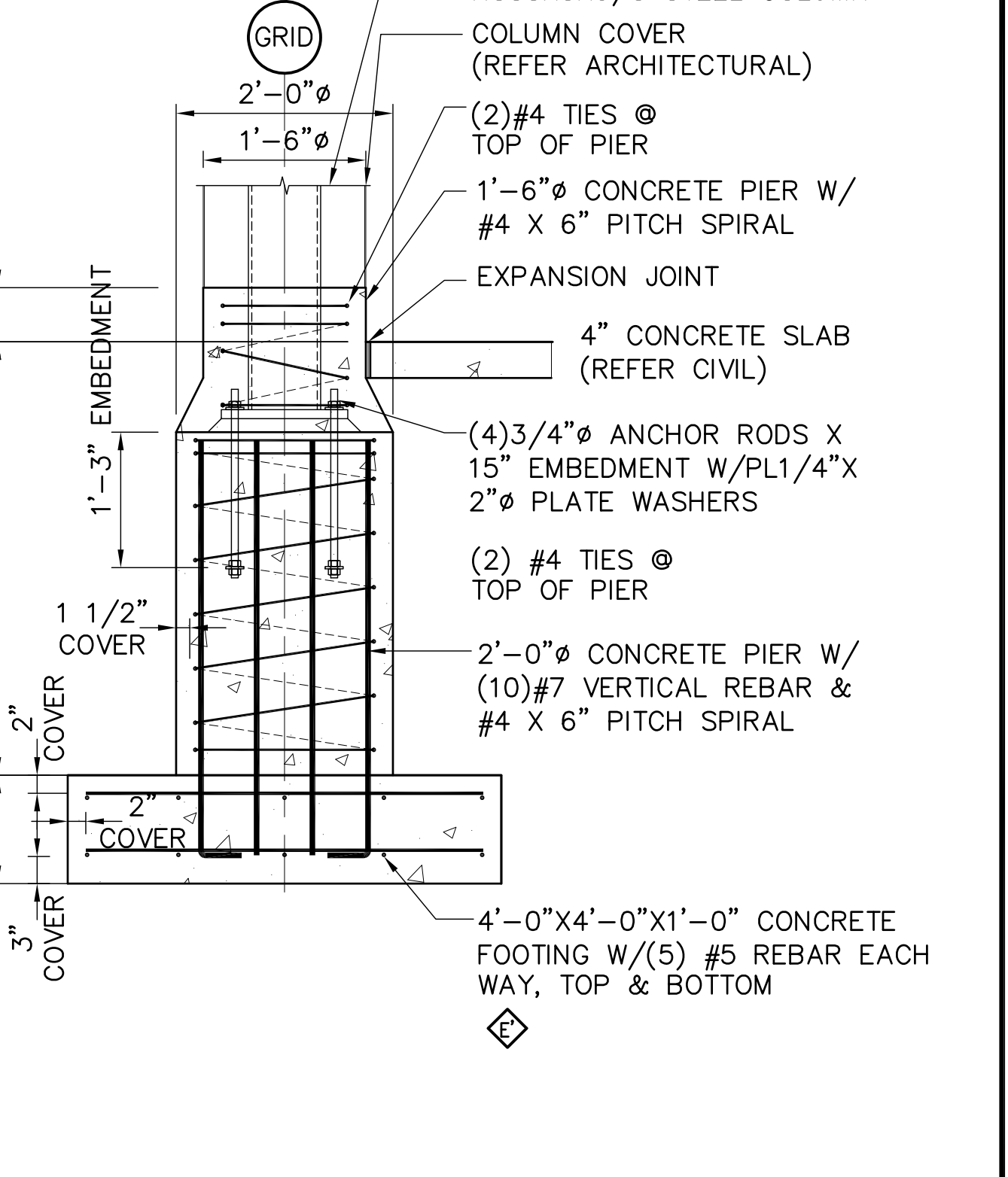
4 BOLLARD DETAIL
S5.2 3/4" = 1'-0"



5 PLINTH 'A' SECTION
S5.2 3/4" = 1'-0"



6 PLINTH 'B' SECTION
S5.2 3/4" = 1'-0"



7 ENTRY PIER 'E' SECTION
S5.2 3/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

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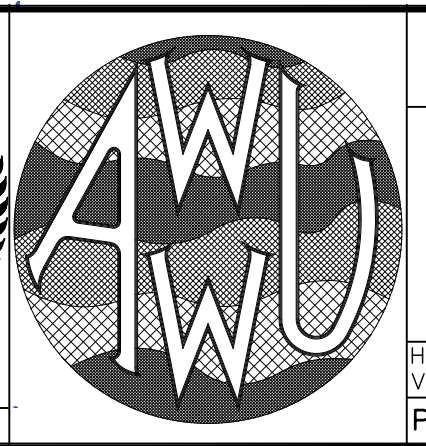
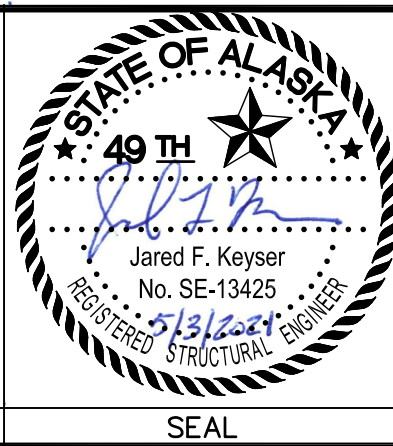
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 CONTRACTOR: _____ DATE: _____ TITLE: _____ BY: _____

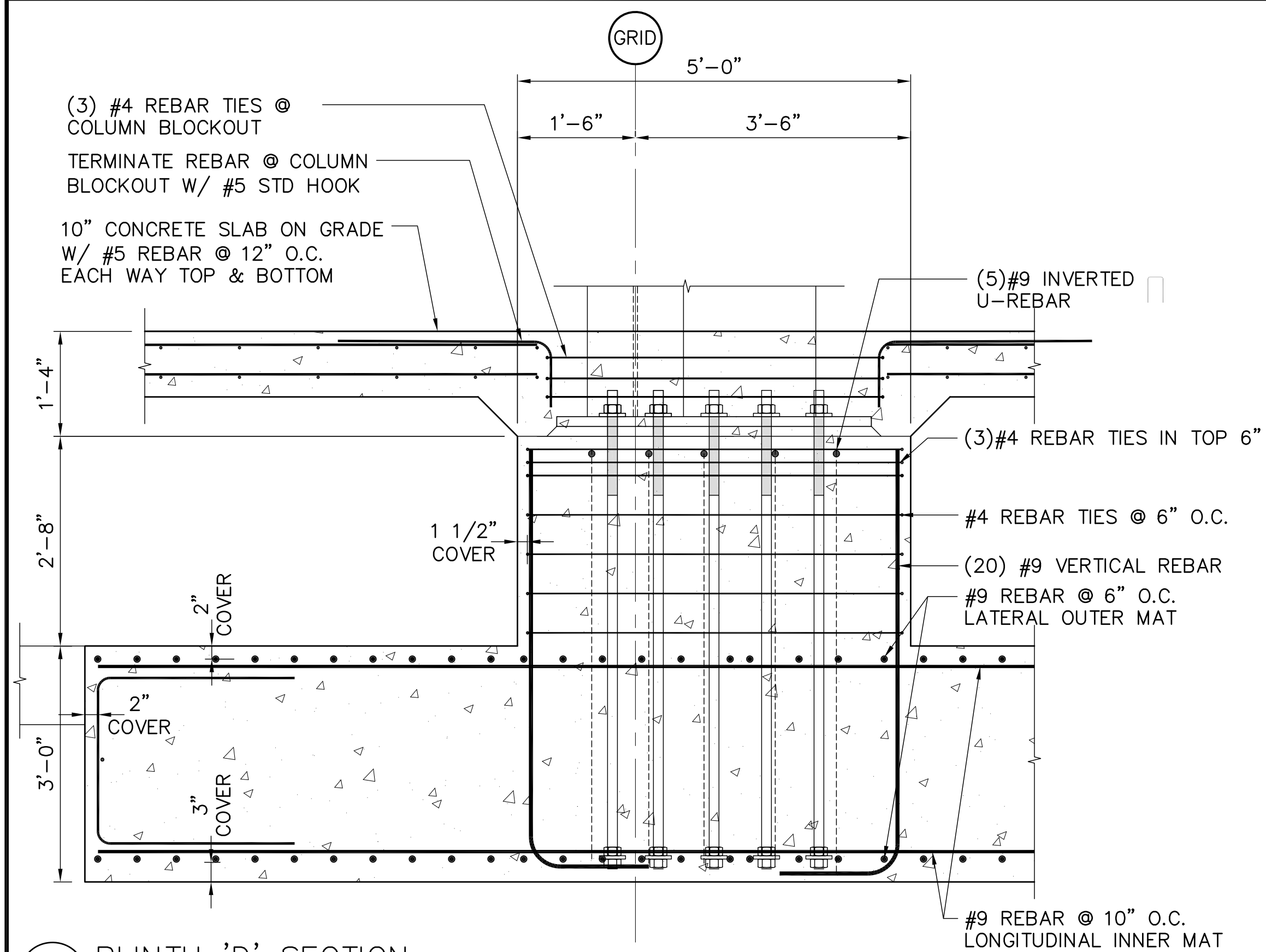
2. DATA TRANSFERRED BY: _____
 COMPANY: _____ DATE: _____

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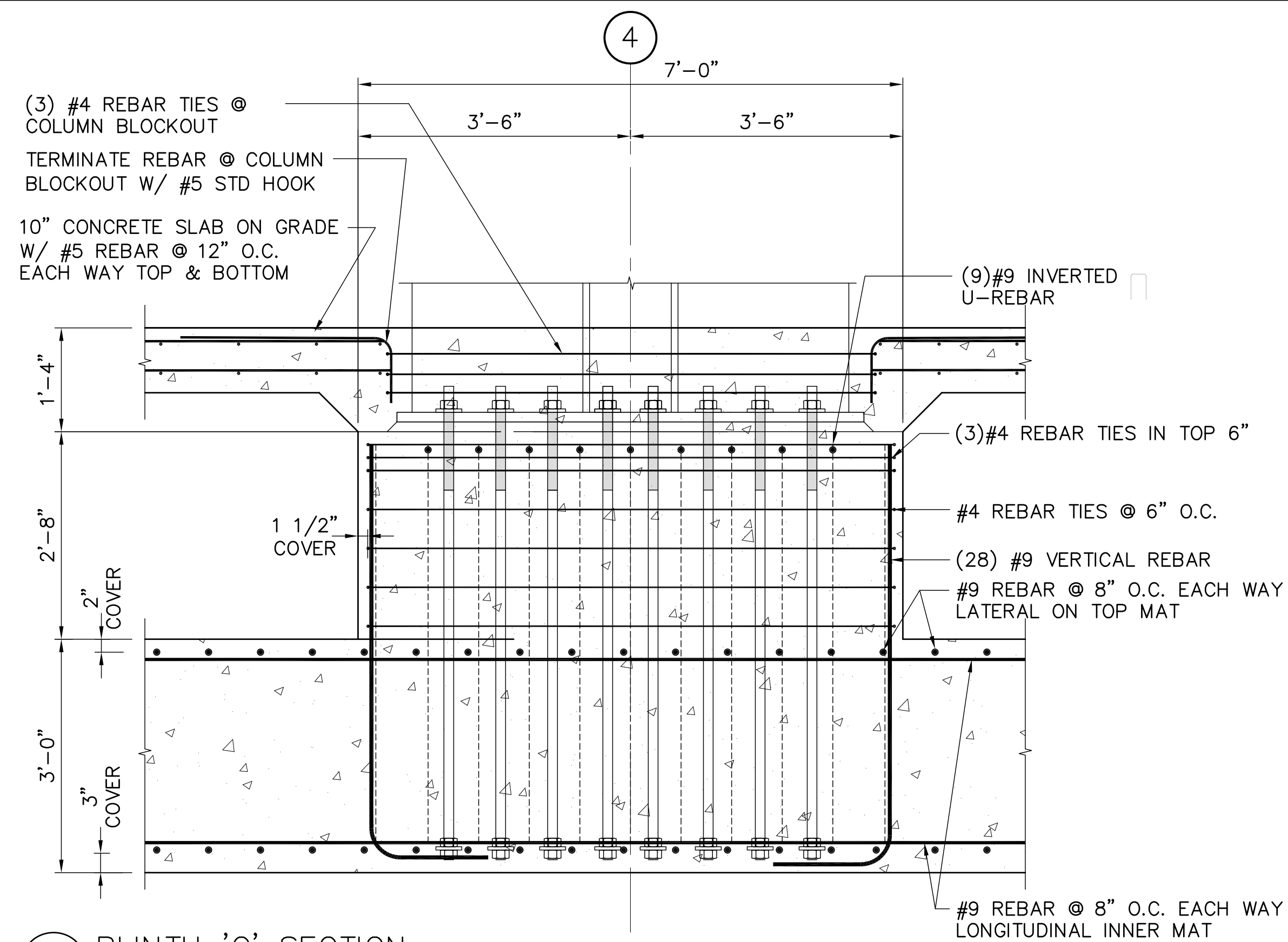
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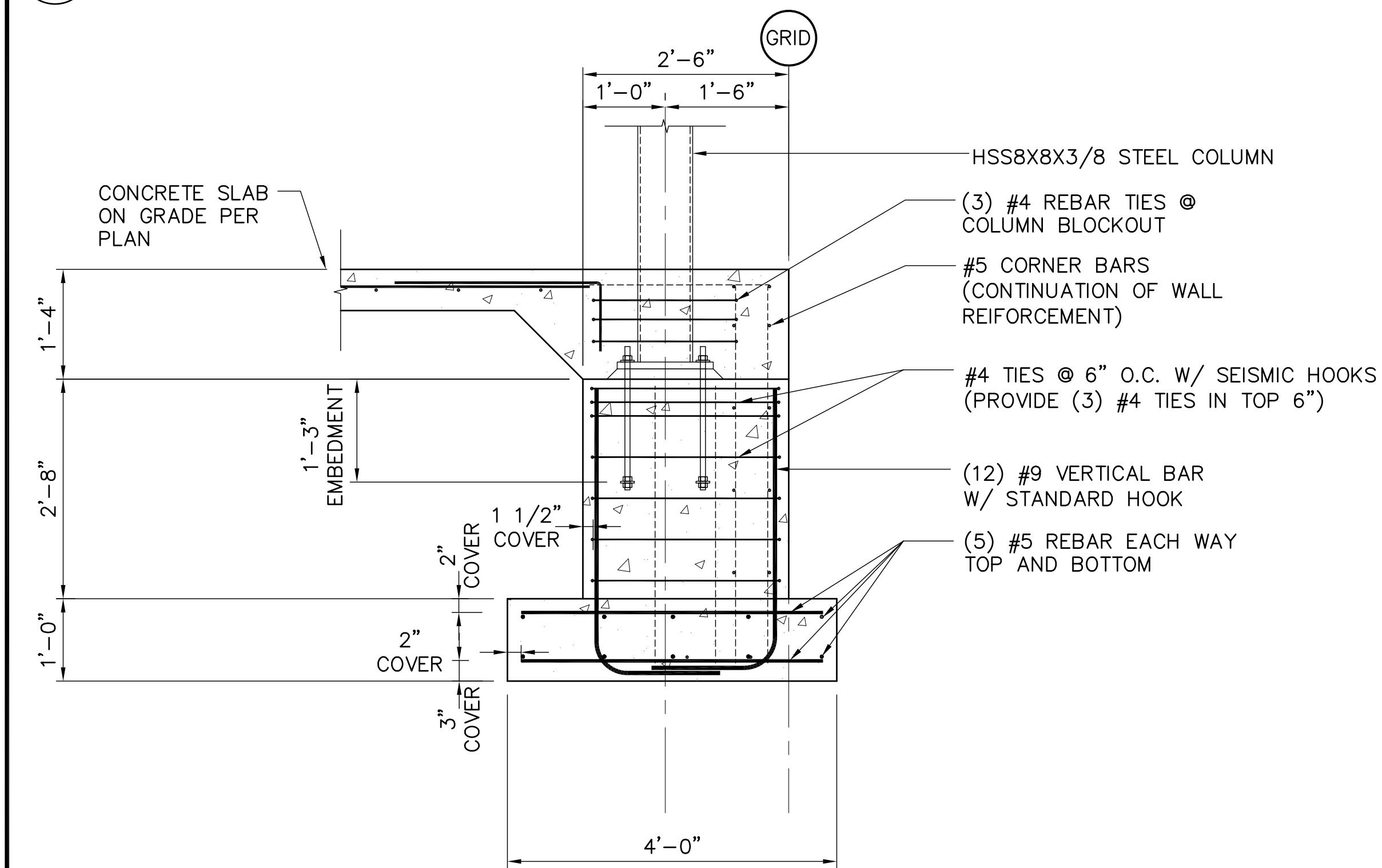




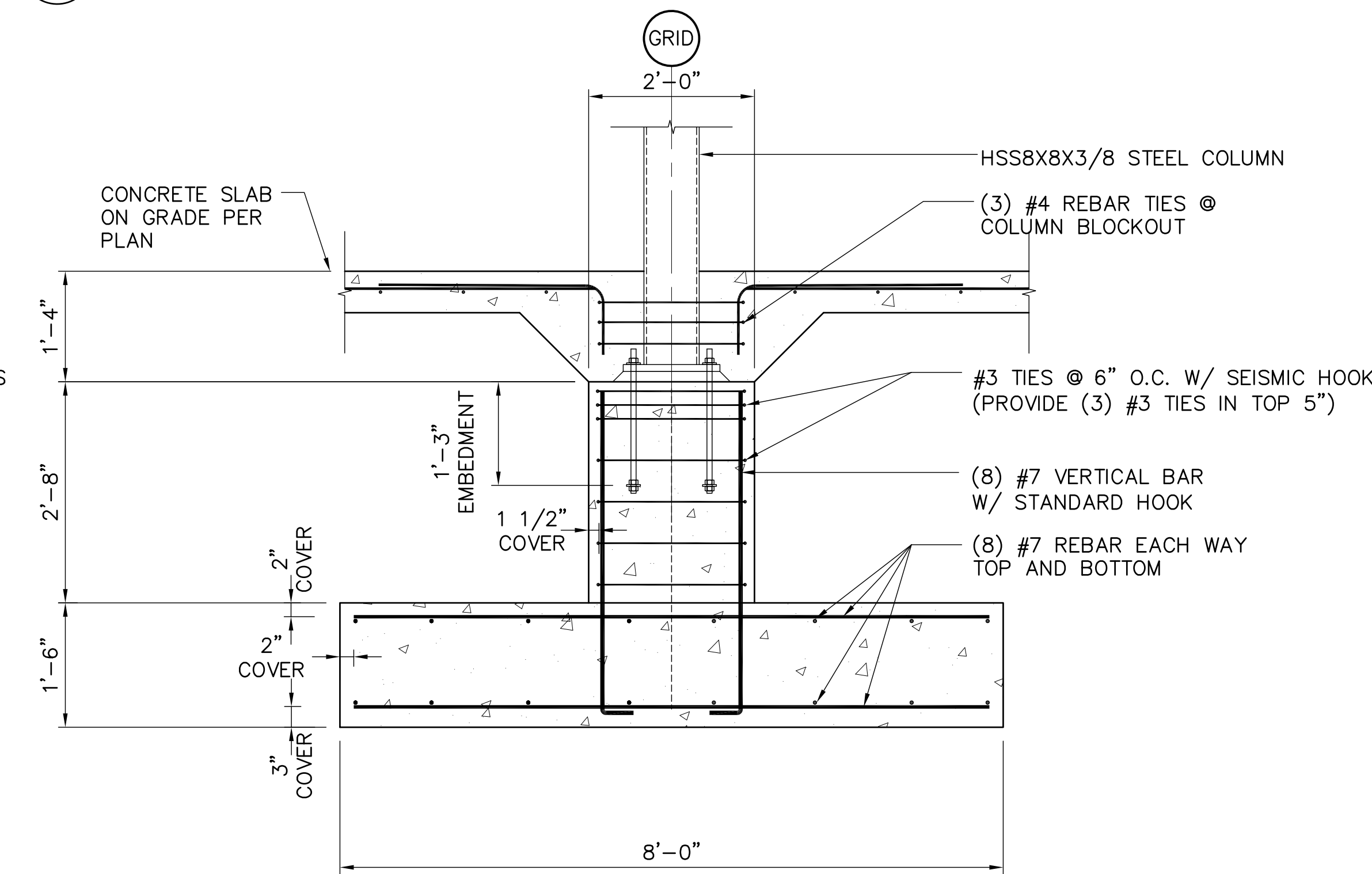
1 PLINTH 'D' SECTION
S5.3 3/4" = 1'-0"



2 PLINTH 'C' SECTION
S5.3 3/4" = 1'-0"



3 PLINTH 'E' SECTION
S5.3 3/4" = 1'-0"



4 PLINTH 'F' SECTION
S5.3 3/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

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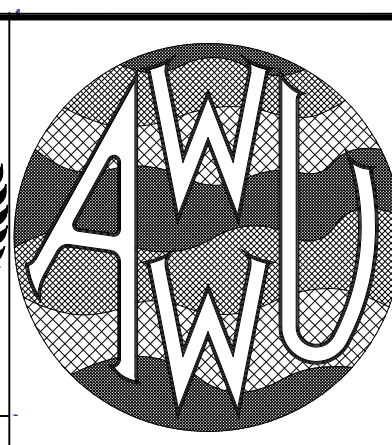
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 PRIME CONSULTANT

KEYSER ENGINEERING LLC
 3030 Seawind Drive
 Anchorage, AK 99516
 (907) 351-7690 COA#141820
 CONSULTANT

STATE OF ALASKA
 49th
 Jared F. Keyser
 No. SE-13425
 REGISTERED STRUCTURAL ENGINEER
 SEAL



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 WATER & WASTEWATER UTILITY

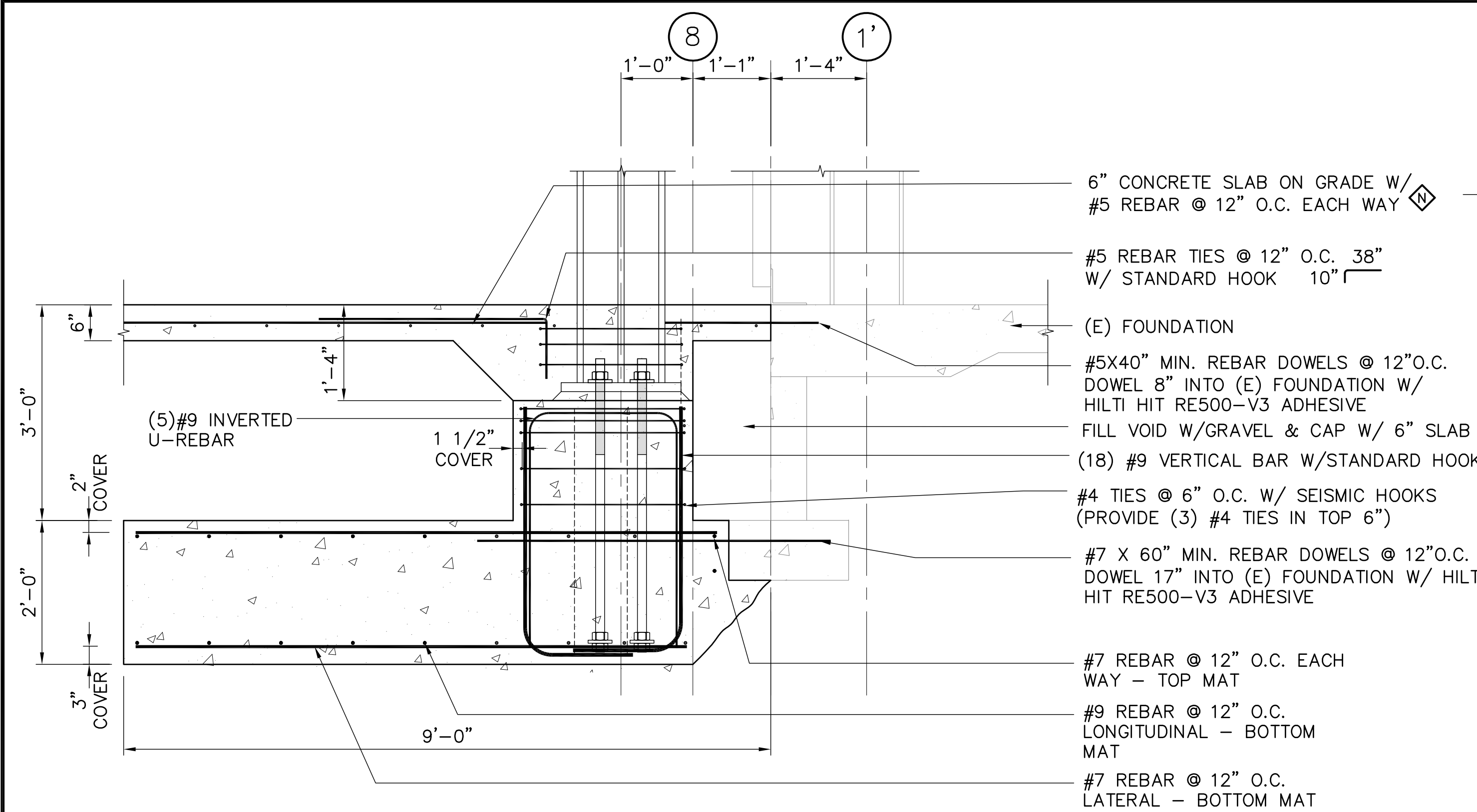
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

CONCRETE FOUNDATION DETAILS

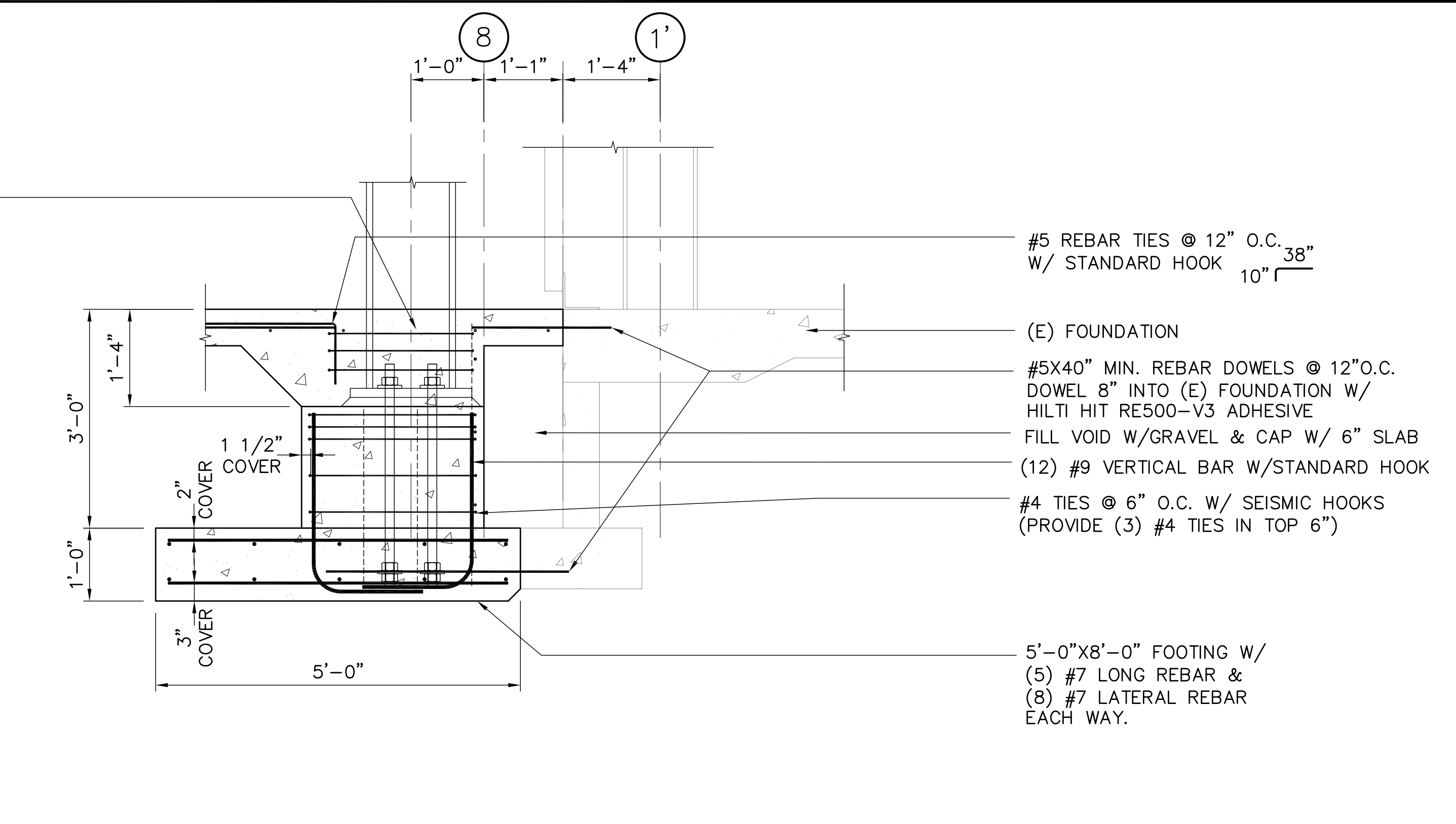
DWG S5.3

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

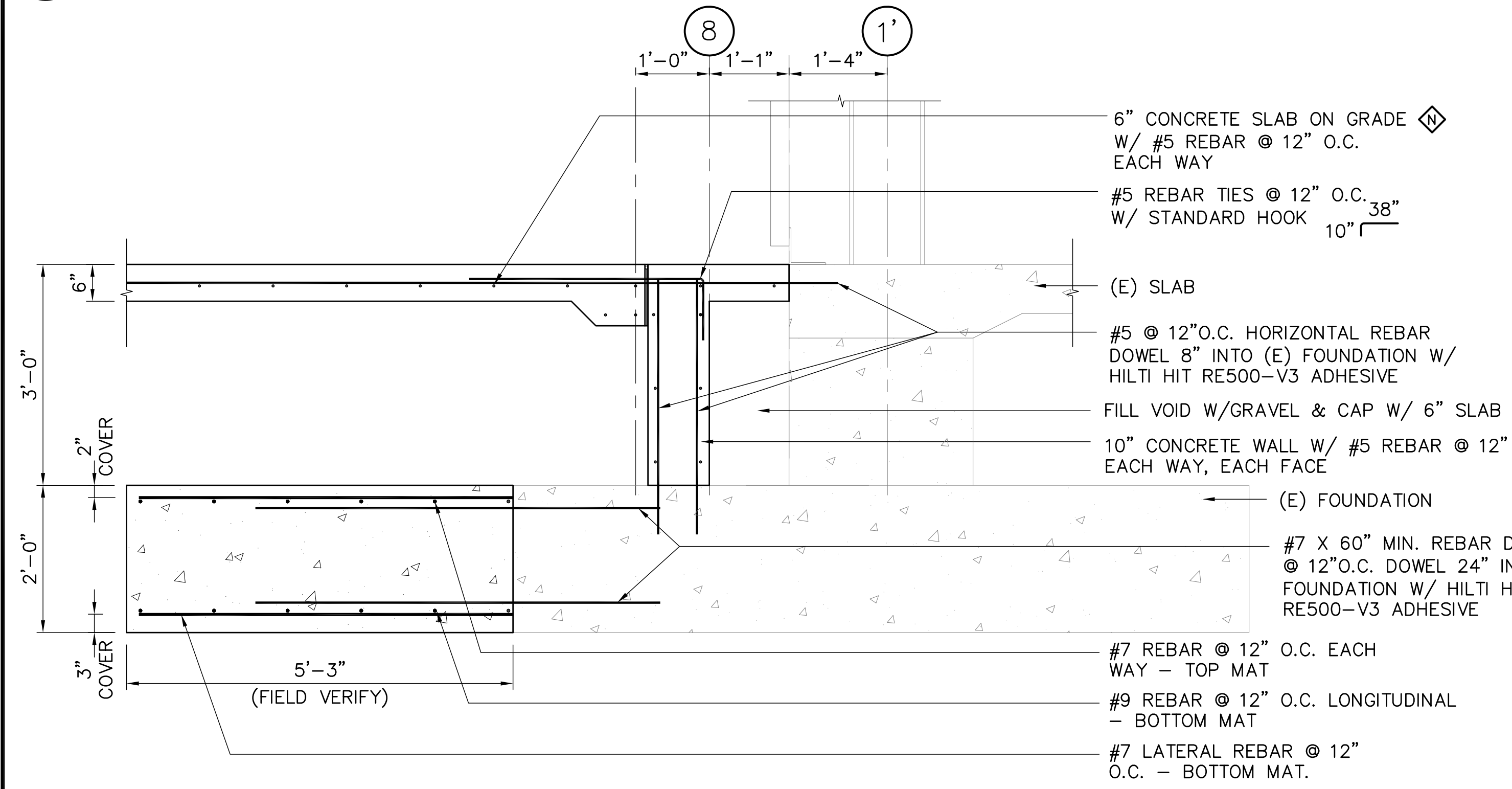
SHEET 170 of 288



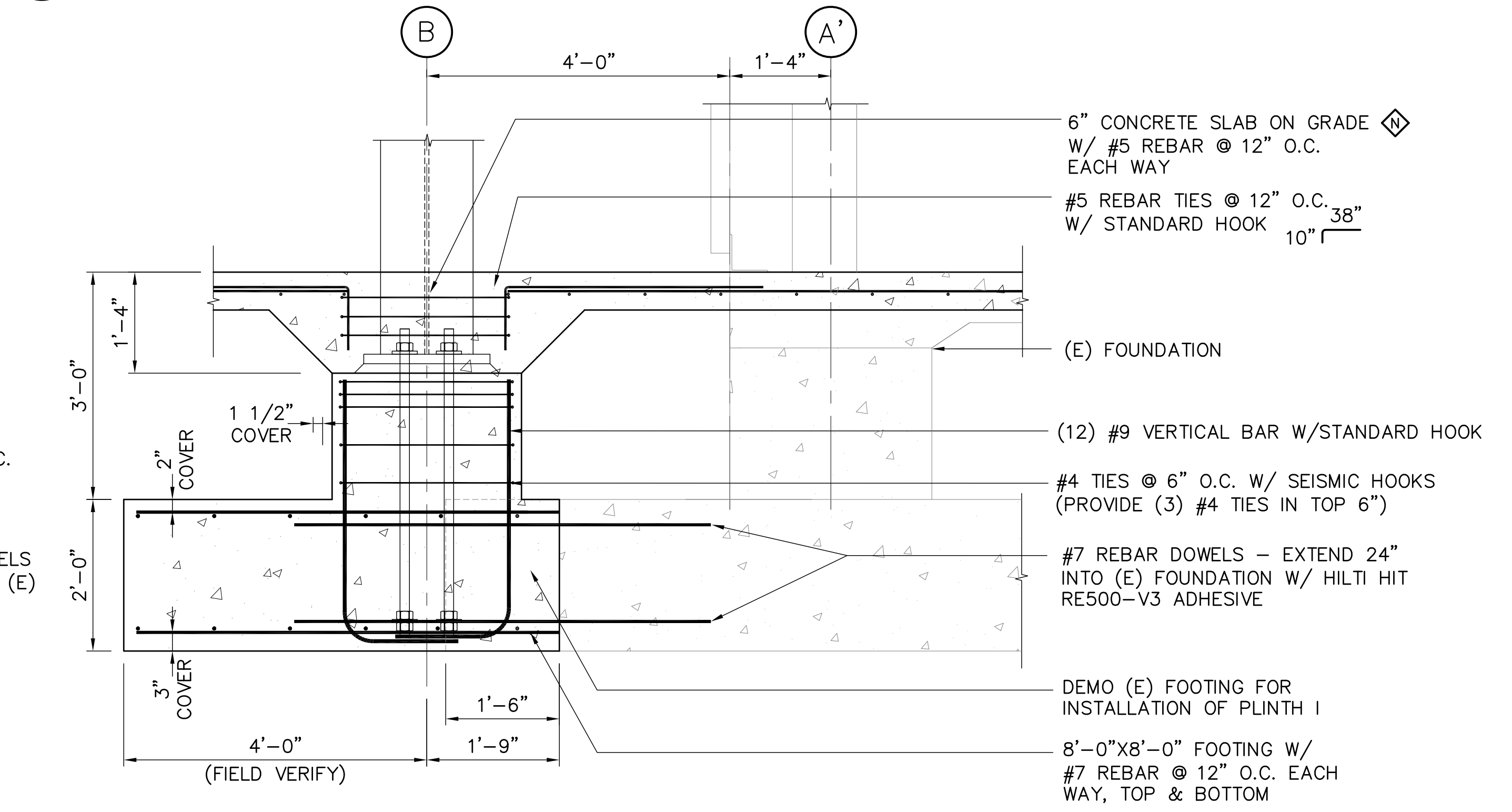
1 PLINTH 'G' SECTION @ EXISTING BUILDING FOUNDATION WALL
S5.4 3/4" = 1'-0"



2 PLINTH 'H' SECTION @ EXISTING BUILDING FOUNDATION WALL
S5.4 3/4" = 1'-0"



3 FOOTING 'G' SECTION @ EXISTING BUILDING PLINTH/FOOTING
S5.4 3/4" = 1'-0"



4 PLINTH 'I' SECTION @ EXISTING BUILDING CORNER FOUNDATION
S5.4 3/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

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CONSULTANT

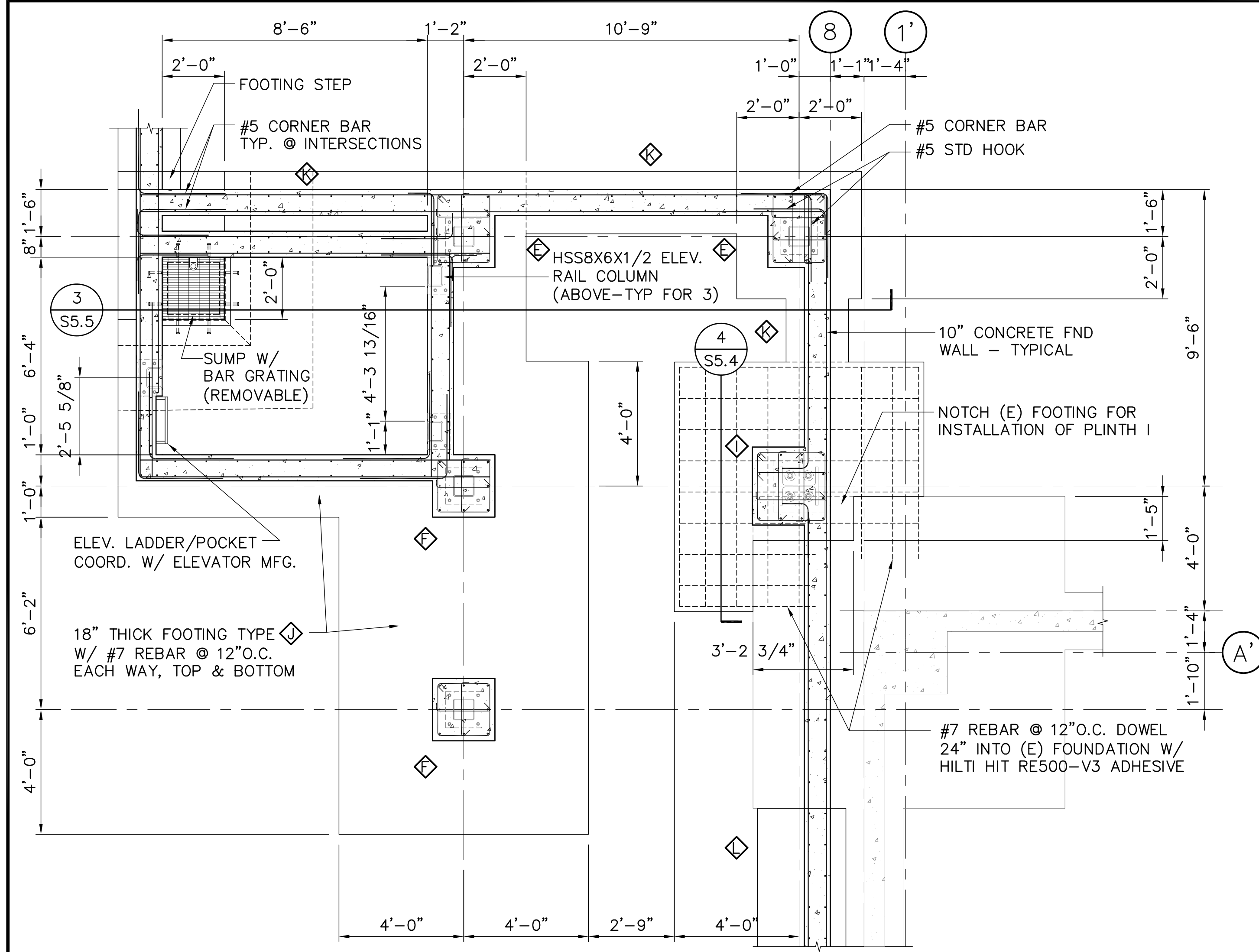
STATE OF ALASKA
49TH
Professional Engineer
Jared F. Keyser
No. SE-13425
SEAL

AWWU

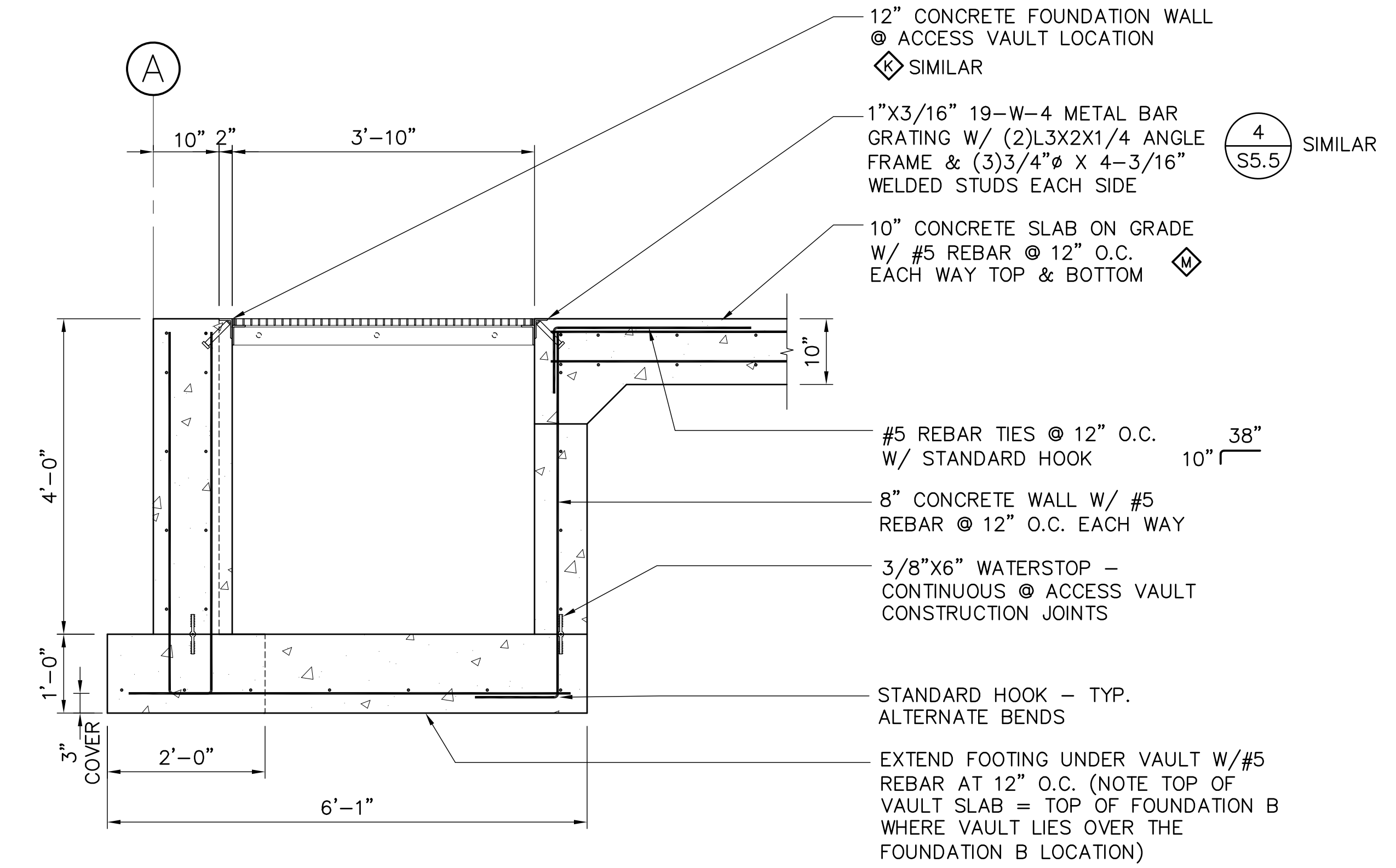
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
CONCRETE FOUNDATION DETAILS
S5.4

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

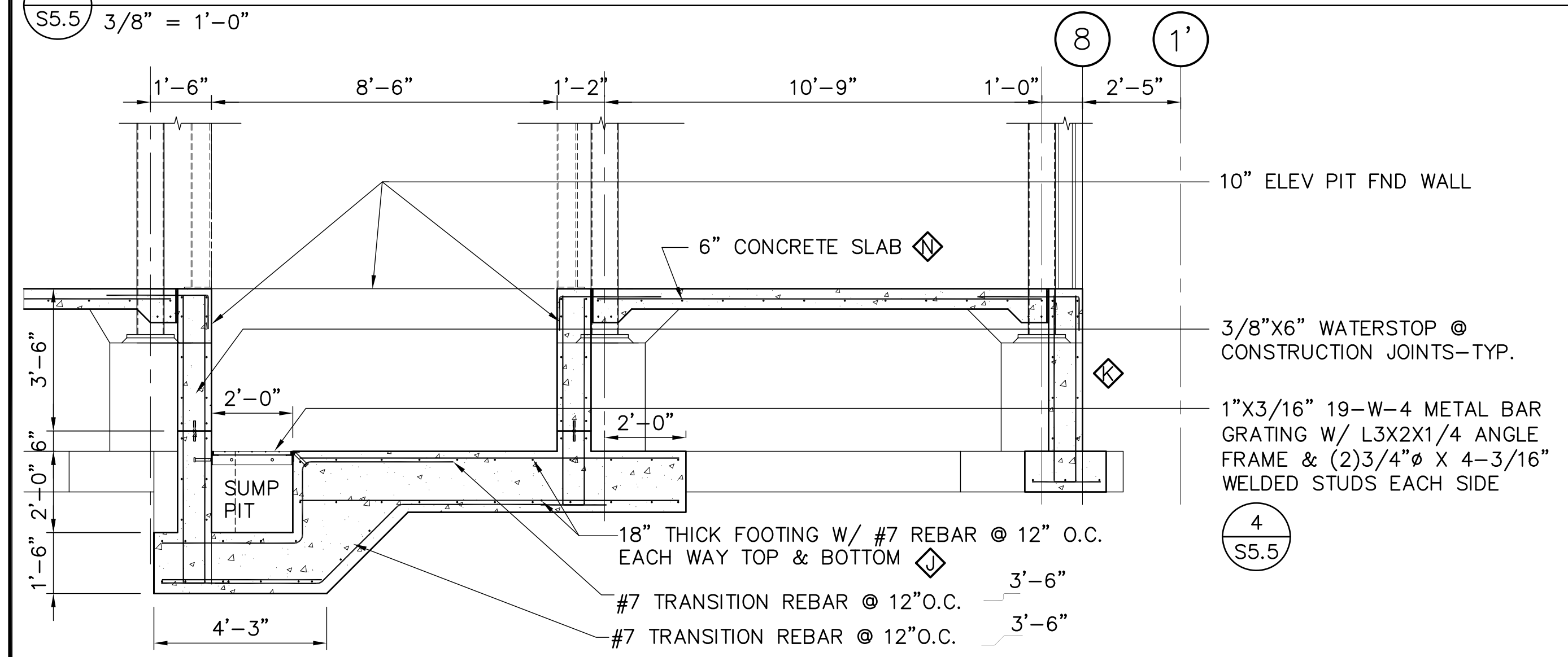
SHEET 171 of 288



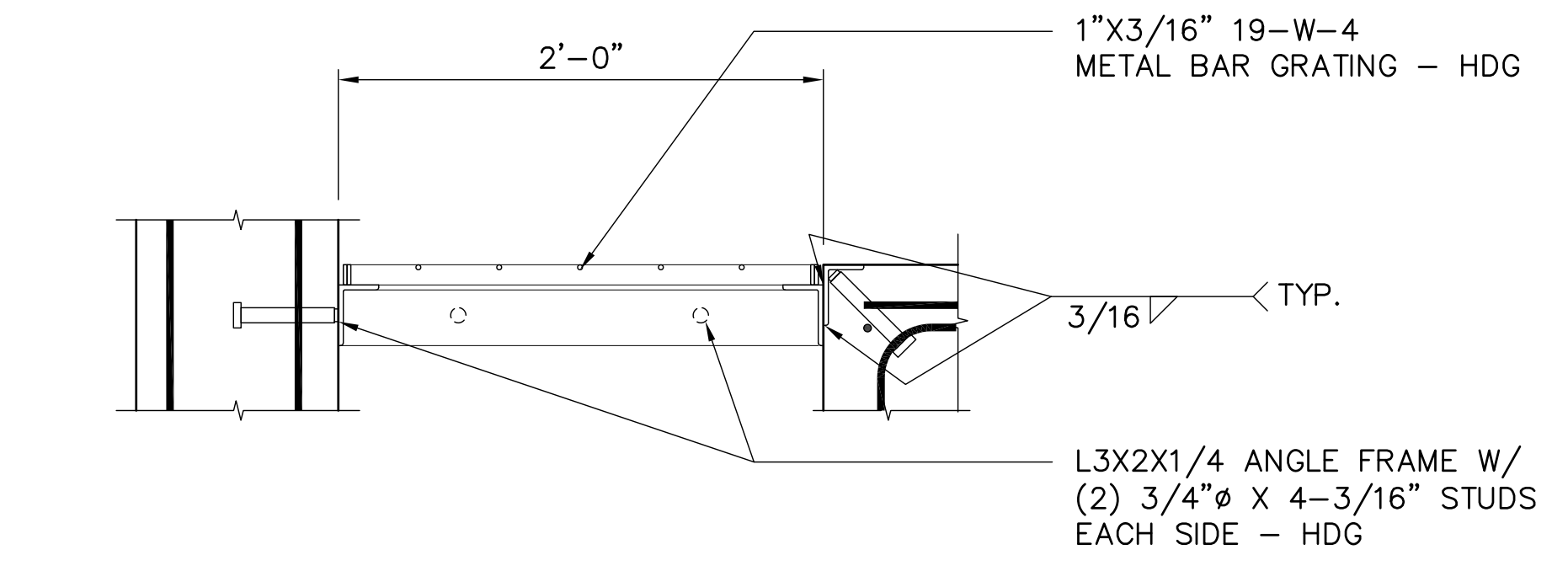
1 ENLARGED ELEVATOR PIT FOUNDATION 'J' PLAN
S5.5 3/8" = 1'-0"



2 ACCESS VAULT DETAIL
S5.5 3/4" = 1'-0"



3 ELEVATOR PIT FOUNDATION 'J' SECTION
S5.5 3/8" = 1'-0"



4 ELEVATOR SUMP GRATING DETAIL
S5.5 1-1/2" = 1'-0"

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

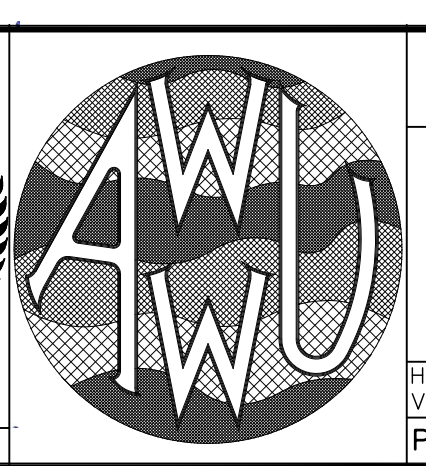
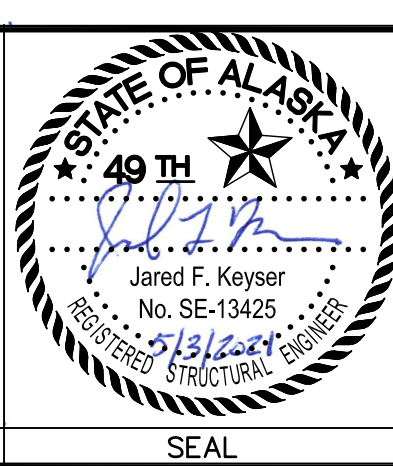
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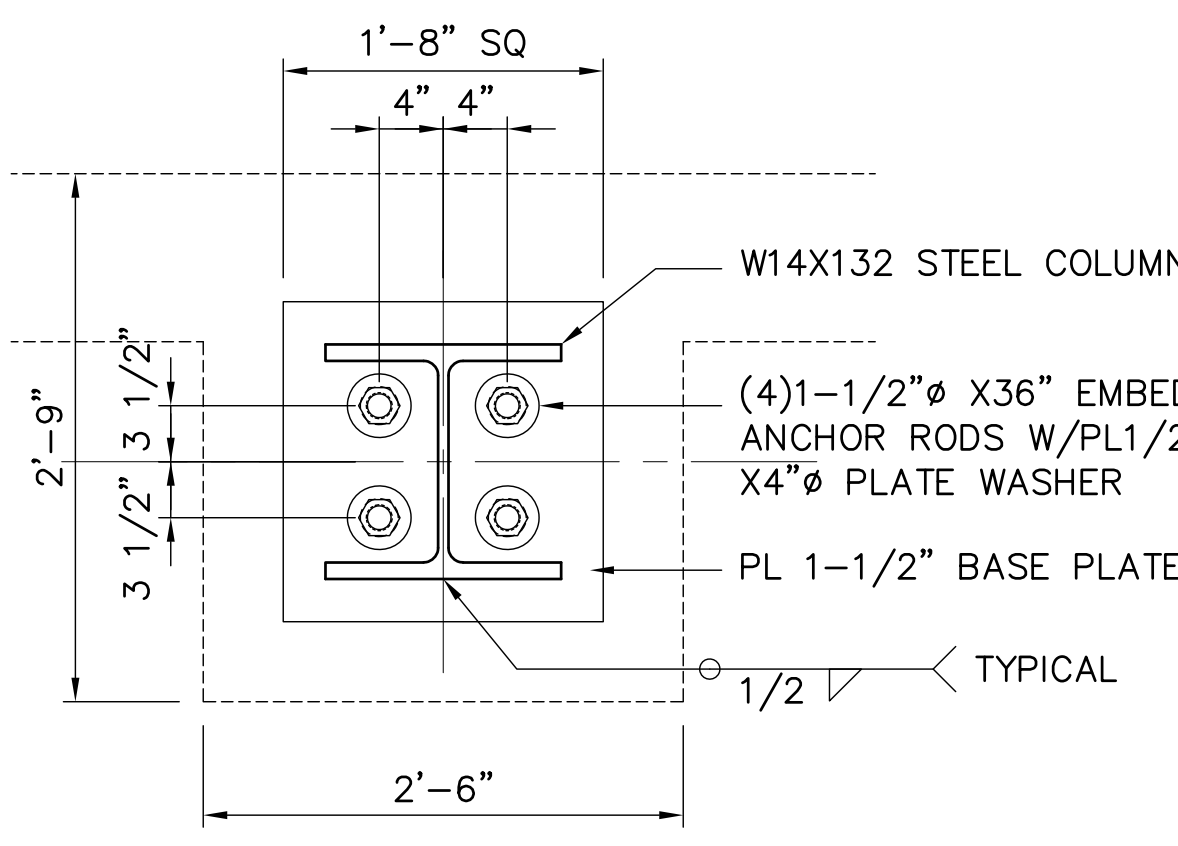
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

CONCRETE FOUNDATION DETAILS

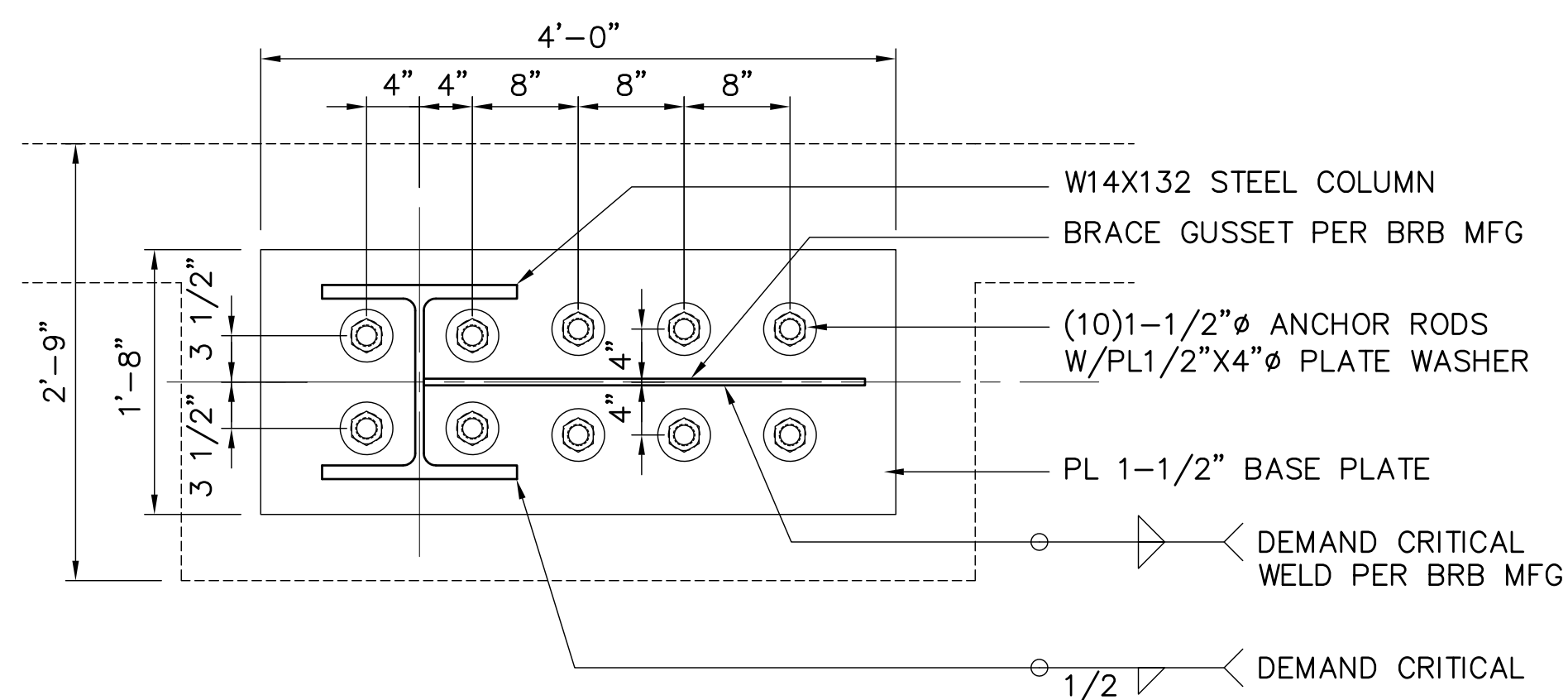
SHEET 172 of 288

PROJ. ID.: WW.H7775

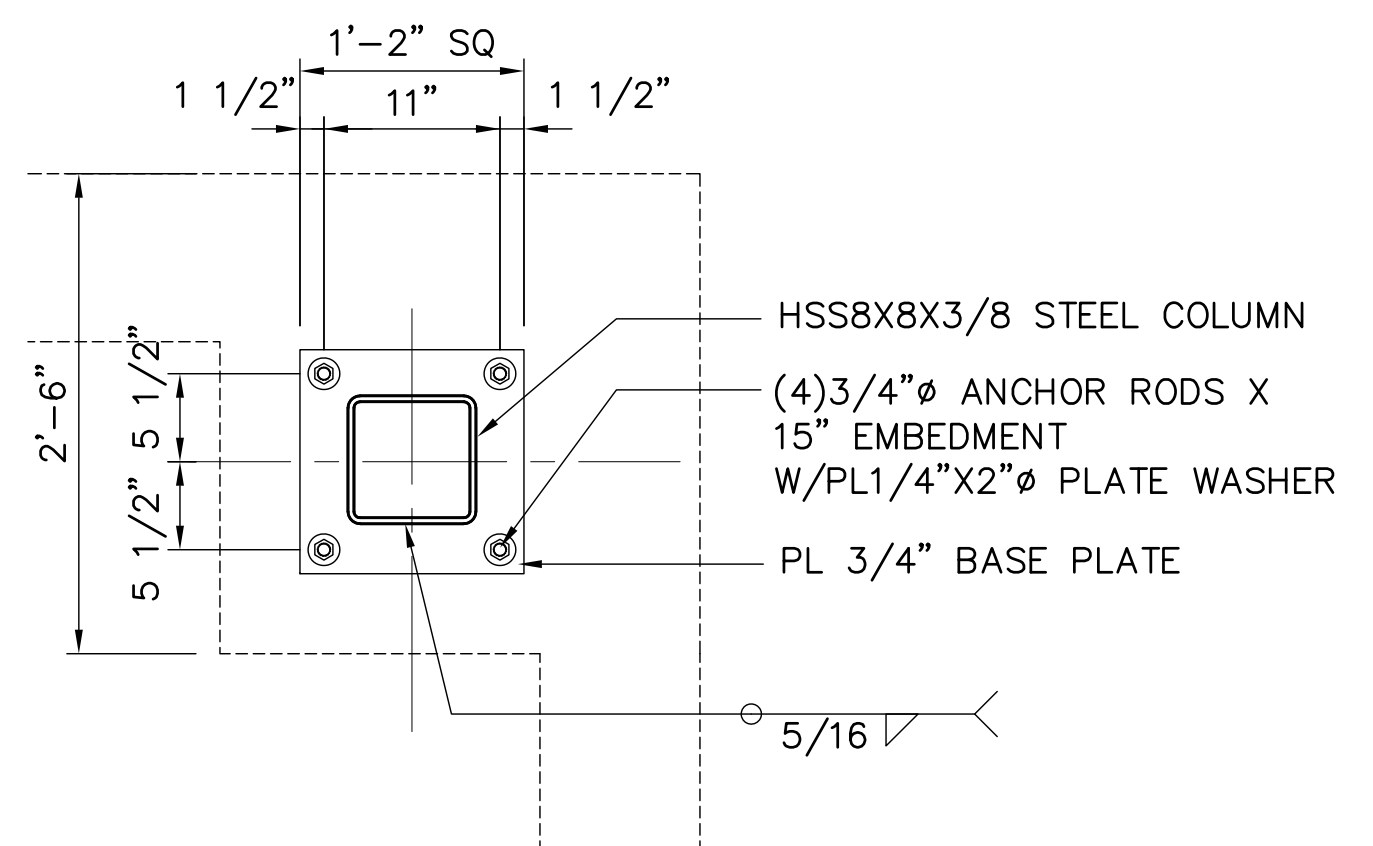
HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A



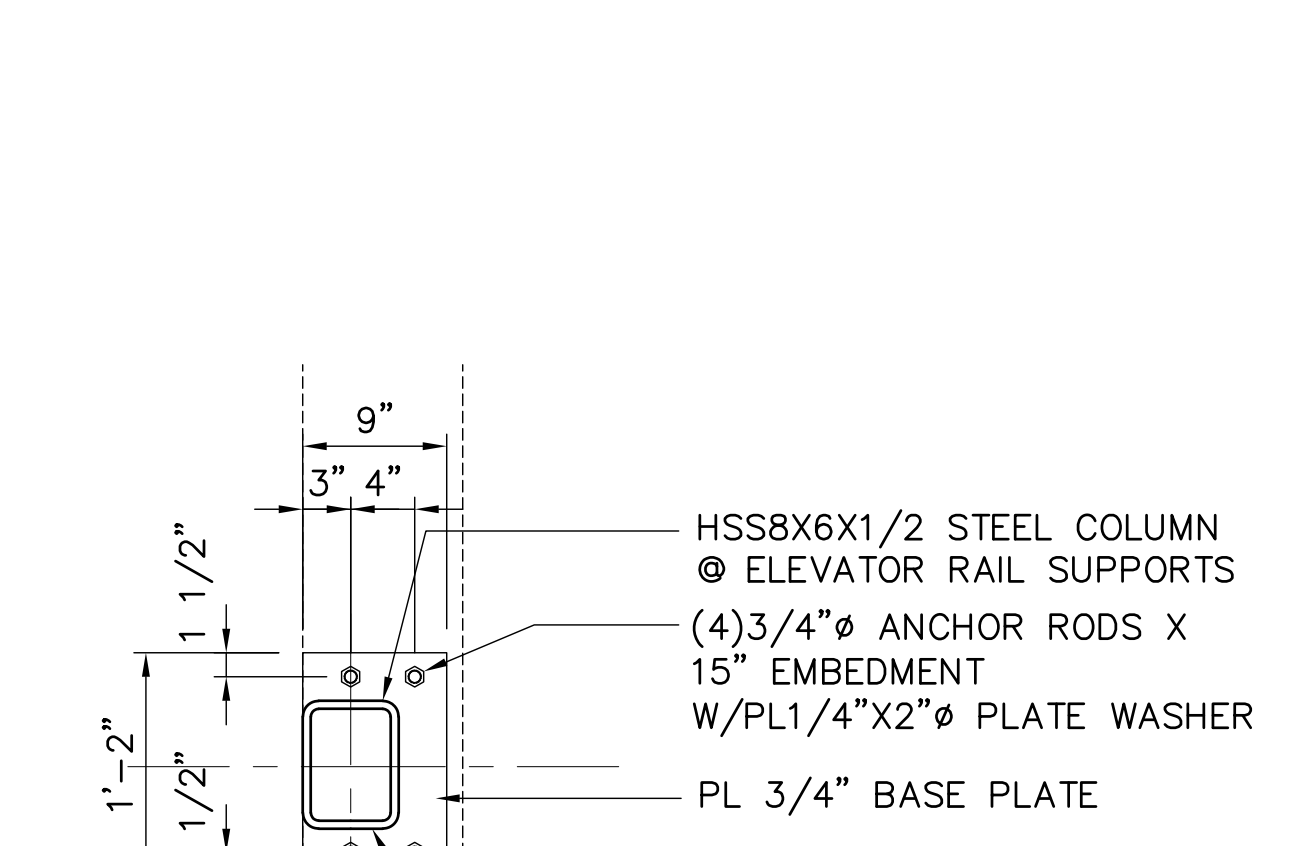
1 W14 COL BASEPLATE DETAIL
S6.1 1" = 1'-0"



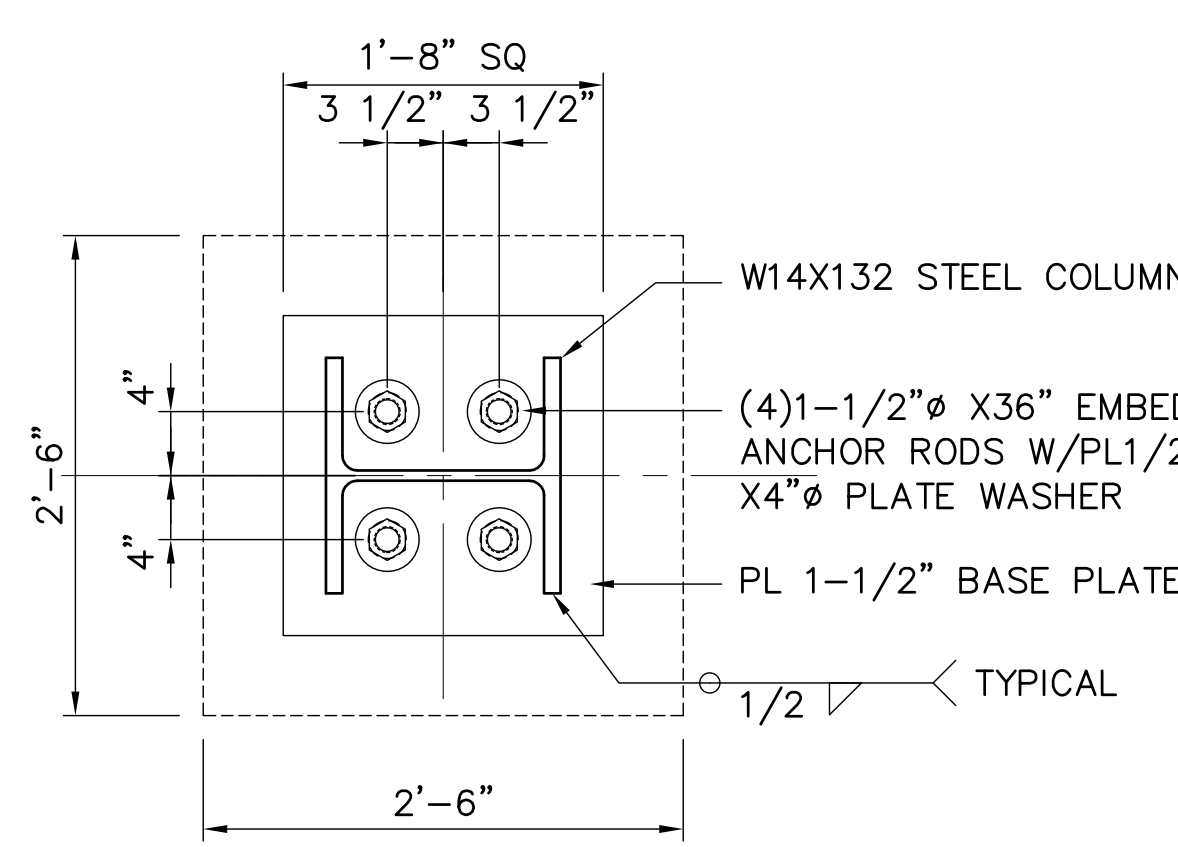
2 W14 COL W/BRACE BASEPLATE DETAIL
S6.1 1" = 1'-0"



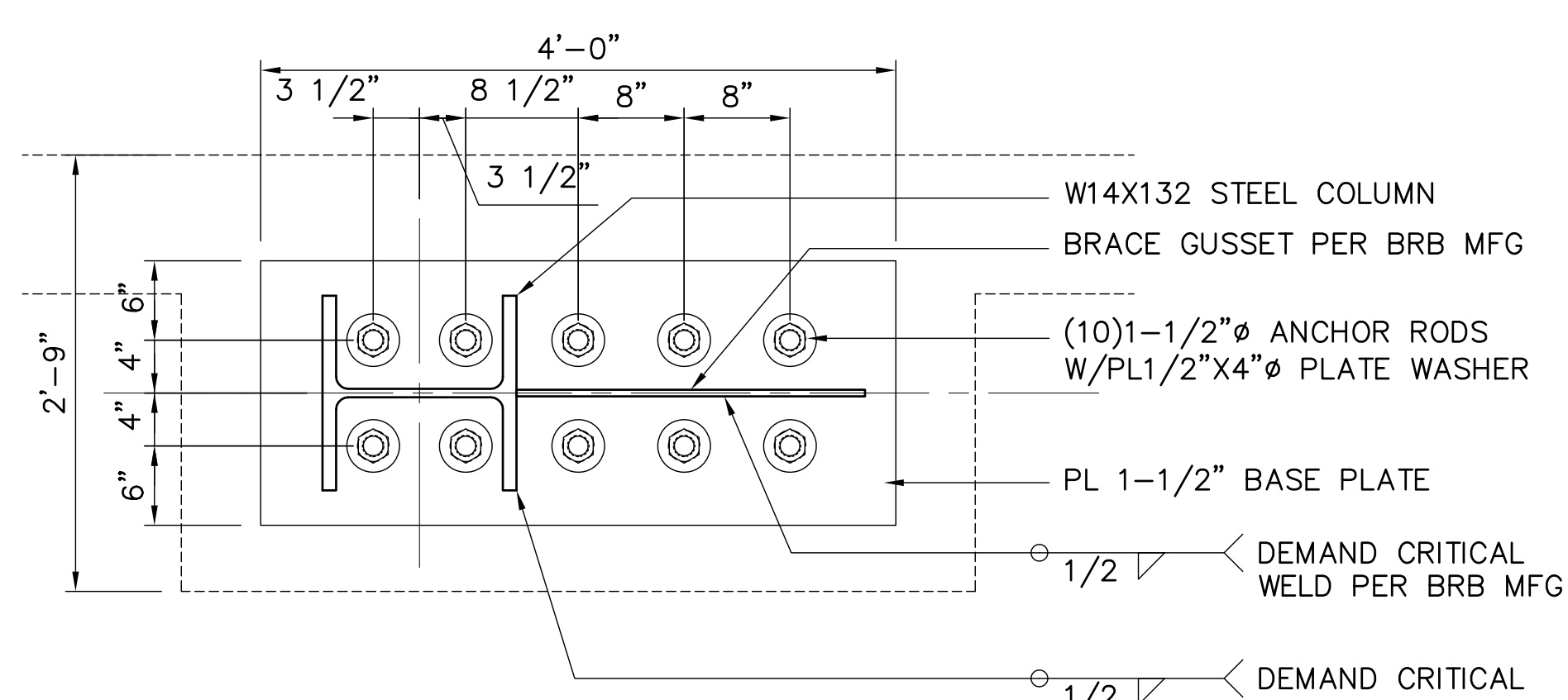
3 HSS8X8 BASEPLATE DETAIL
S6.1 1" = 1'-0"



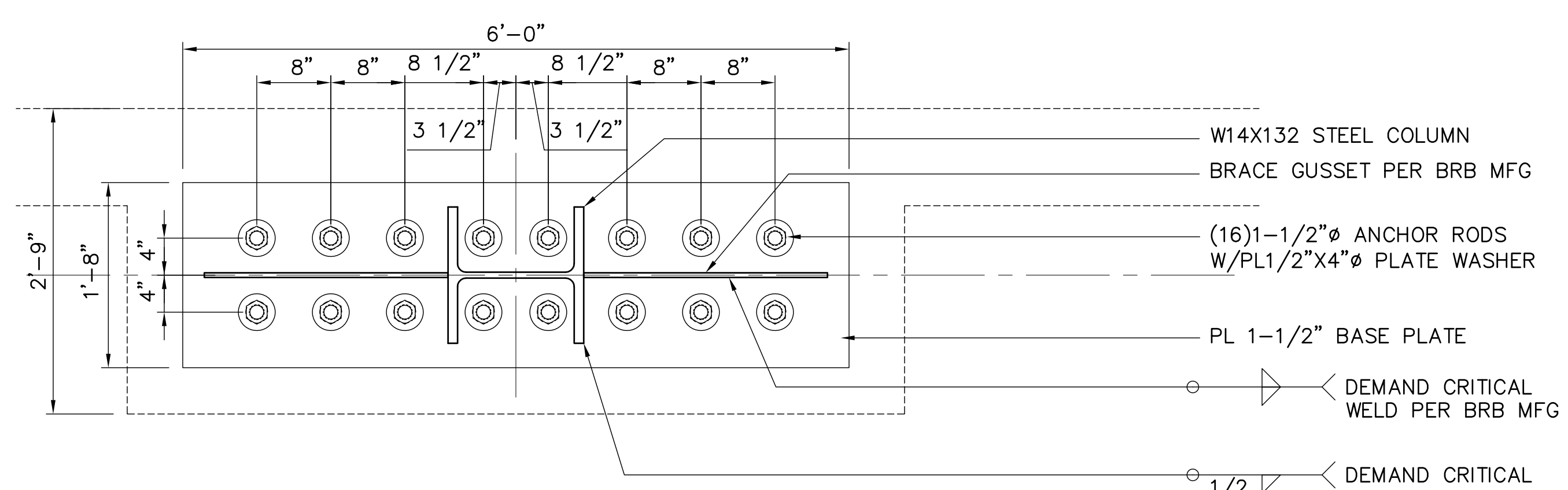
4 HSS8X6 BASEPLATE DETAIL
S6.1 1" = 1'-0"



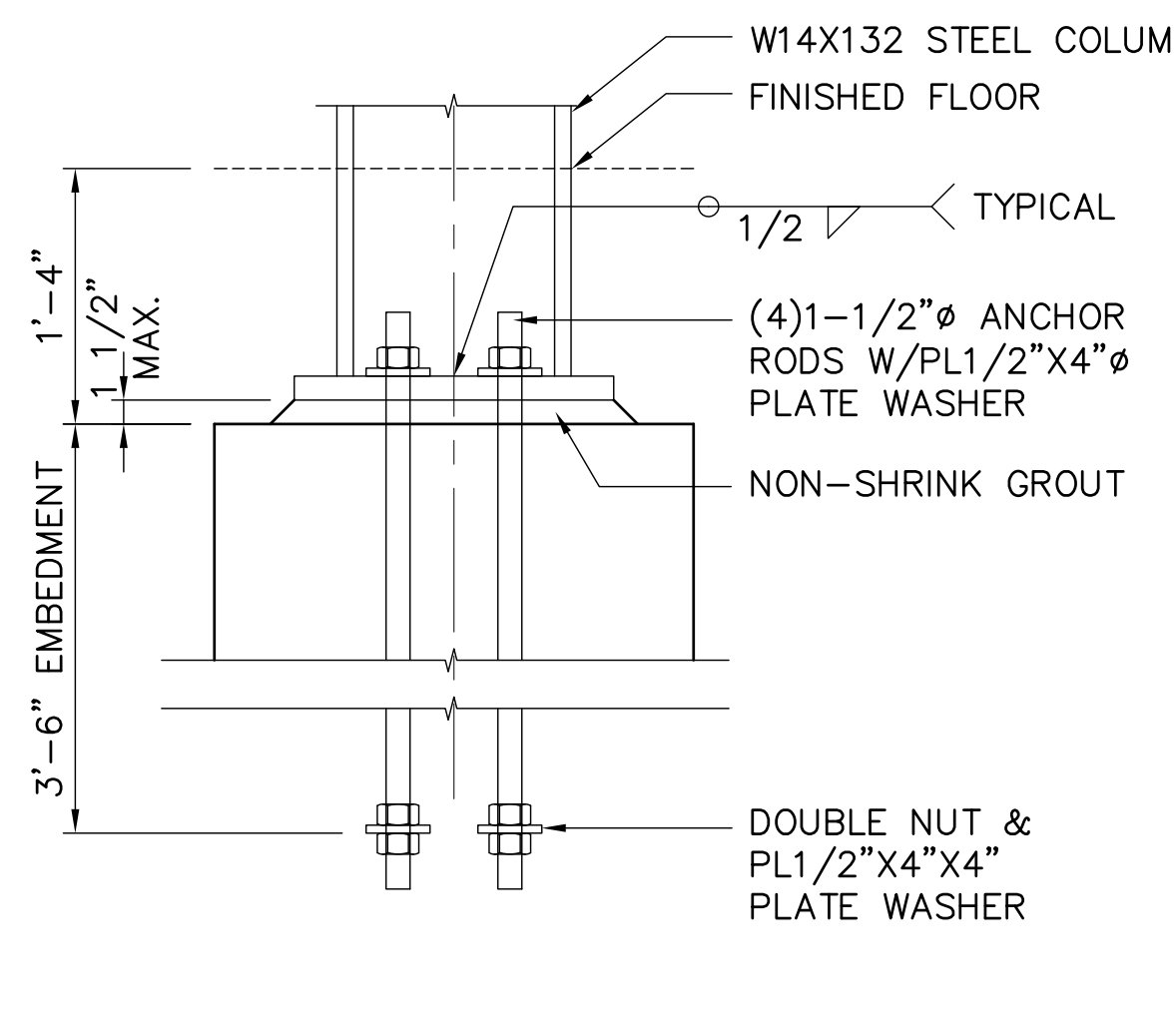
5 W14 COL BASEPLATE DETAIL
S6.1 1" = 1'-0"



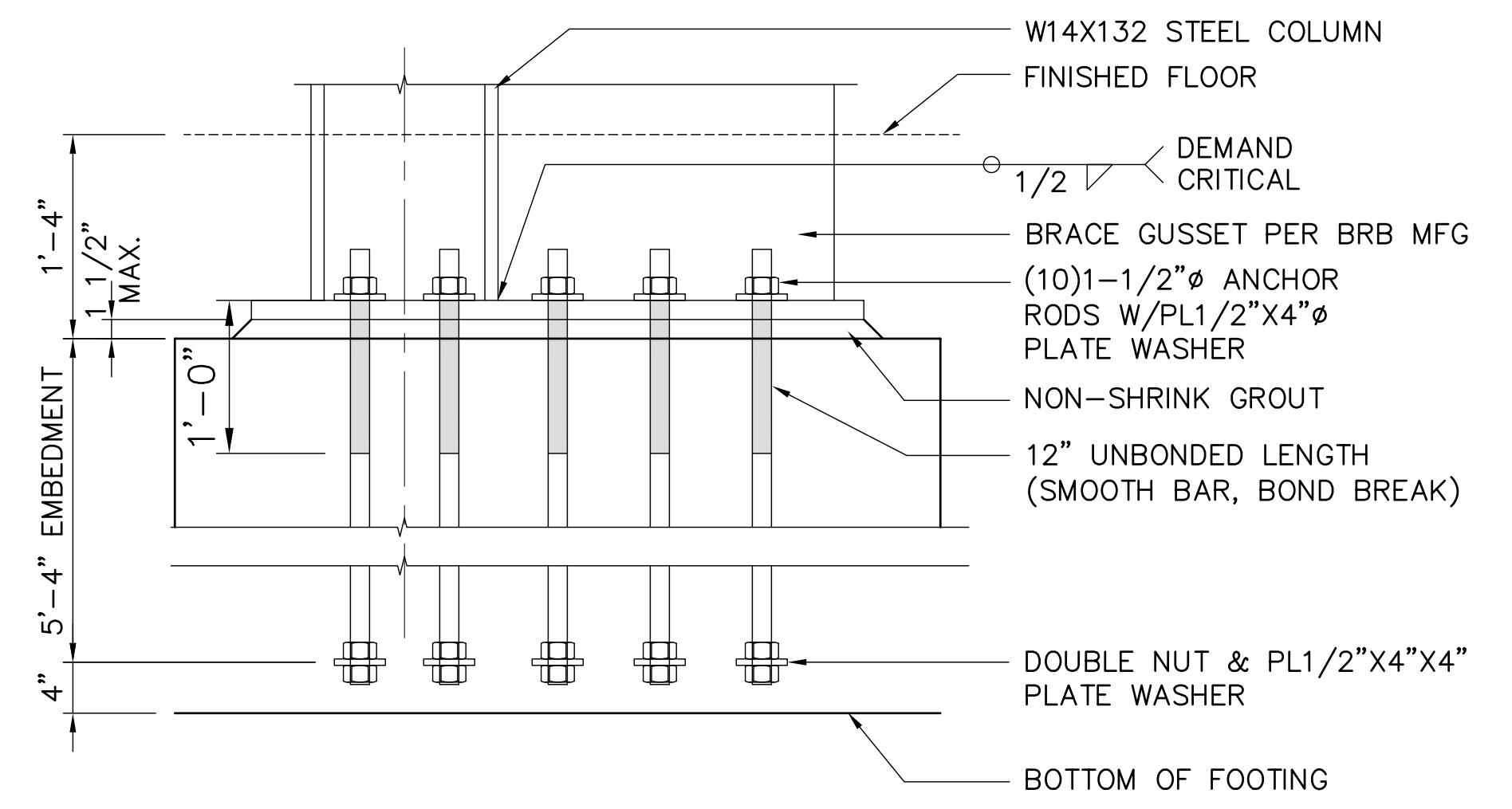
6 W14 COL W/BRACE BASEPLATE DETAIL
S6.1 1" = 1'-0"



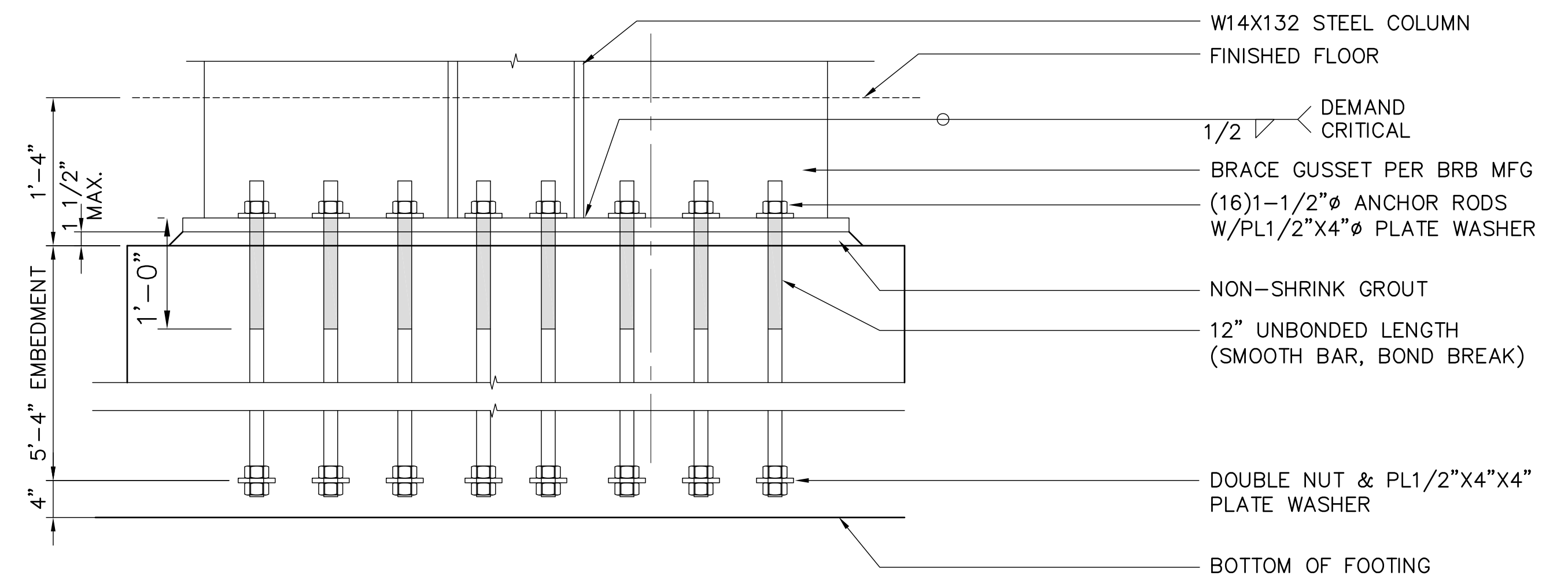
7 W14 COL W/ DOUBLE BRACE BASEPLATE DETAIL
S6.1 1" = 1'-0"



8 W14 COL BASEPLATE DETAIL
S6.1 1" = 1'-0"



9 W14 COL W/ BRACE BASEPLATE DETAIL
S6.1 1" = 1'-0"



10 W14 COL W/ DOUBLE BRACE BASEPLATE DETAIL
S6.1 1" = 1'-0"

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

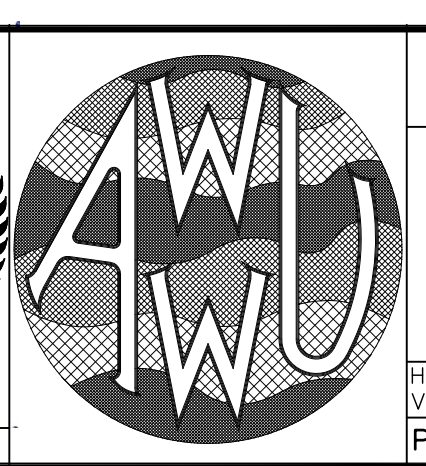
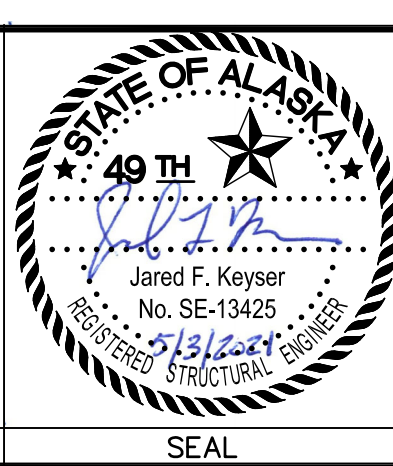
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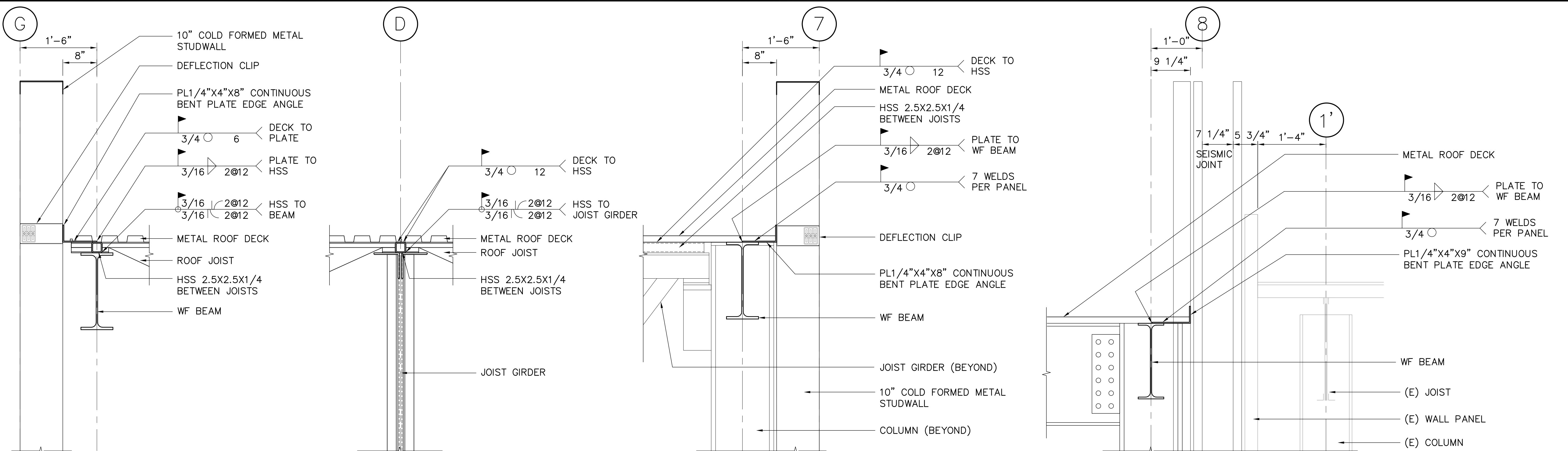
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

COLUMN BASEPLATE DETAILS

DWG S6.1

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

SHEET 173 of 288

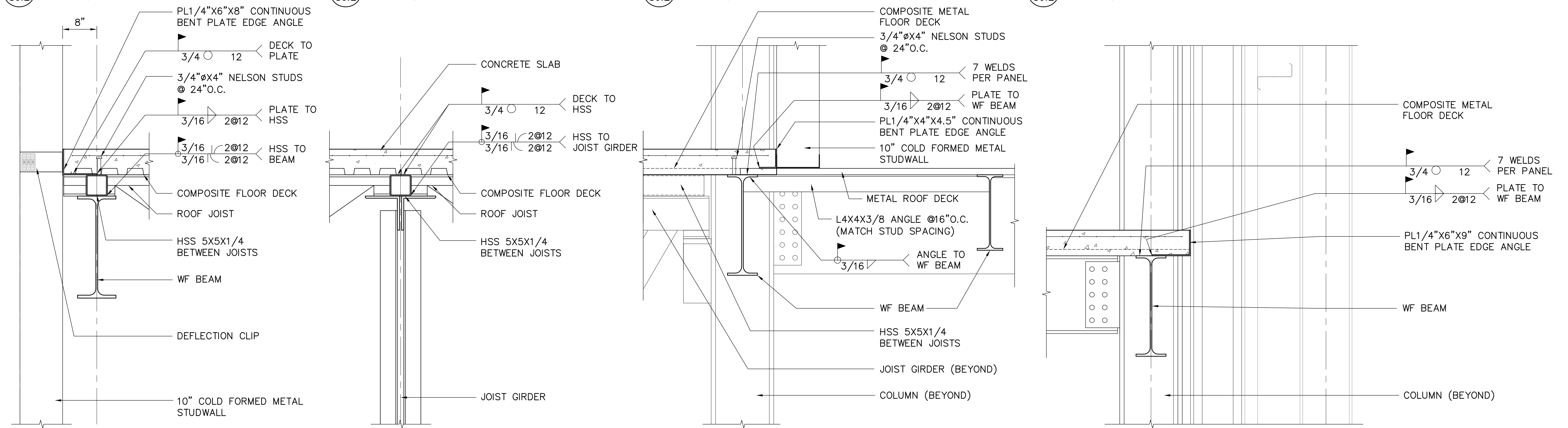


1 ROOF EDGE DETAIL
S6.2 1" = 1'-0"

2 ROOF JOIST GIRDER DETAIL
S6.2 1" = 1'-0"

3 ROOF EDGE DETAIL
S6.2 1" = 1'-0"

4 ROOF EDGE @ EXISTING DETAIL
S6.2 1" = 1'-0"



5 FLOOR BEAM DETAIL
S6.2 1" = 1'-0"

6 FLOOR JOIST GIRDER DETAIL
S6.2 1" = 1'-0"

7 FLOOR JOIST GIRDER DETAIL
S6.2 1" = 1'-0"

8 FLOOR EDGE @ EXISTING DETAIL
S6.2 1" = 1'-0"

REV	DATE	DESCRIPTION	BY

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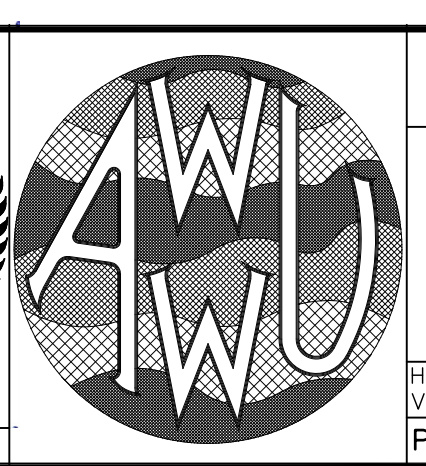
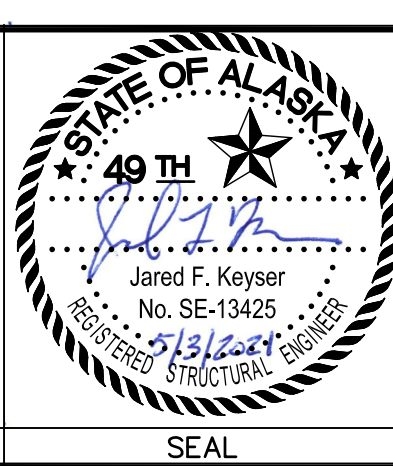
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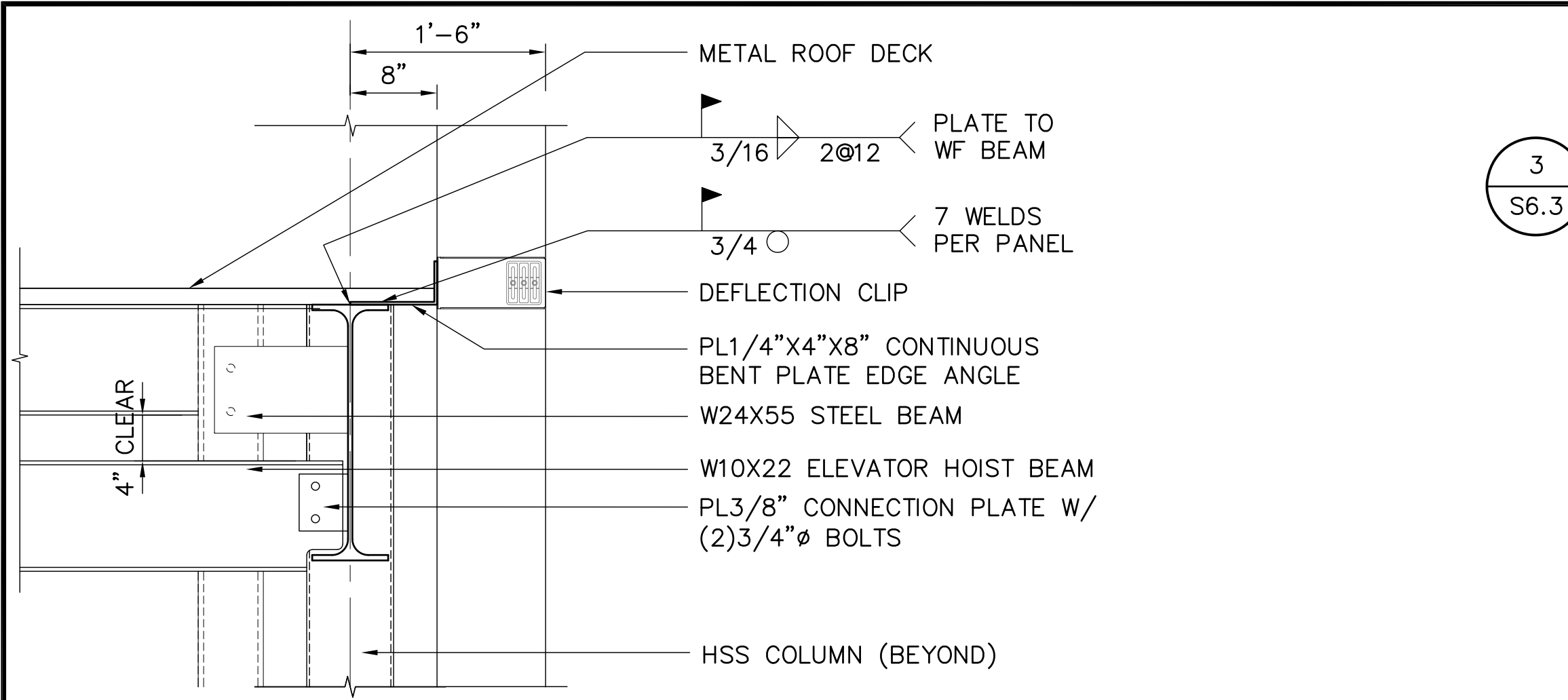
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

STEEL FRAMING DETAILS

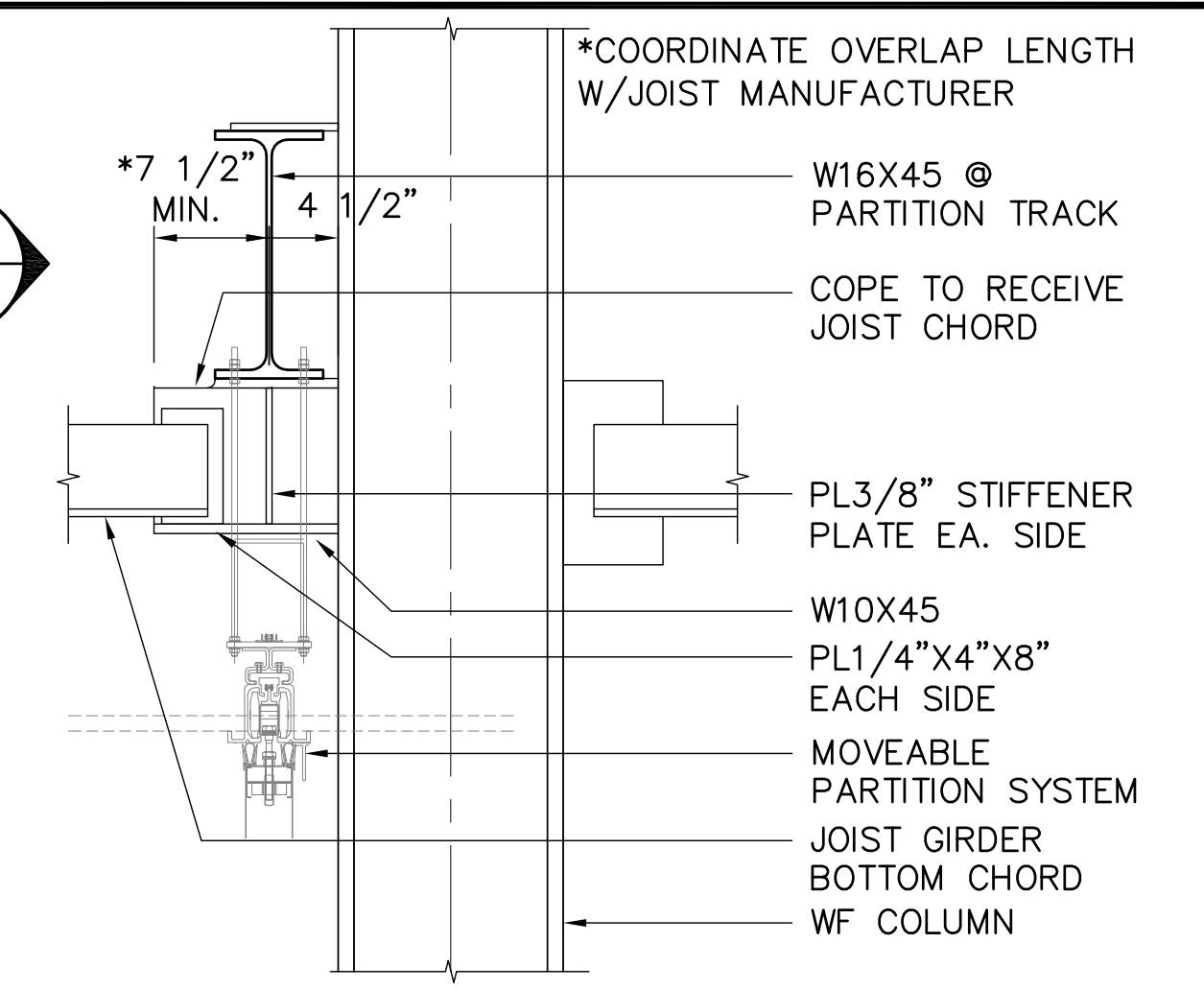
DWG S6.2

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

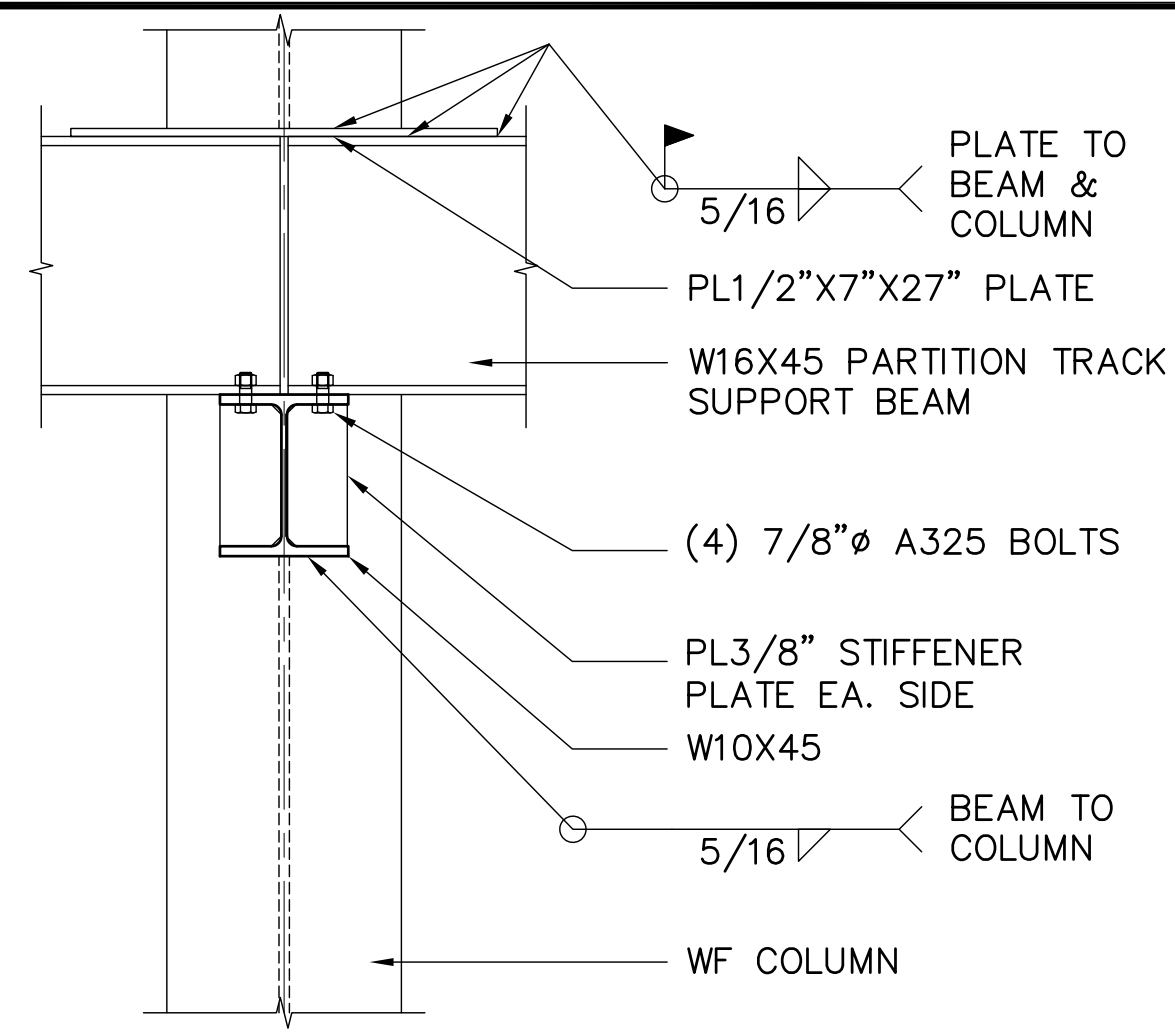
SHEET 174 of 288



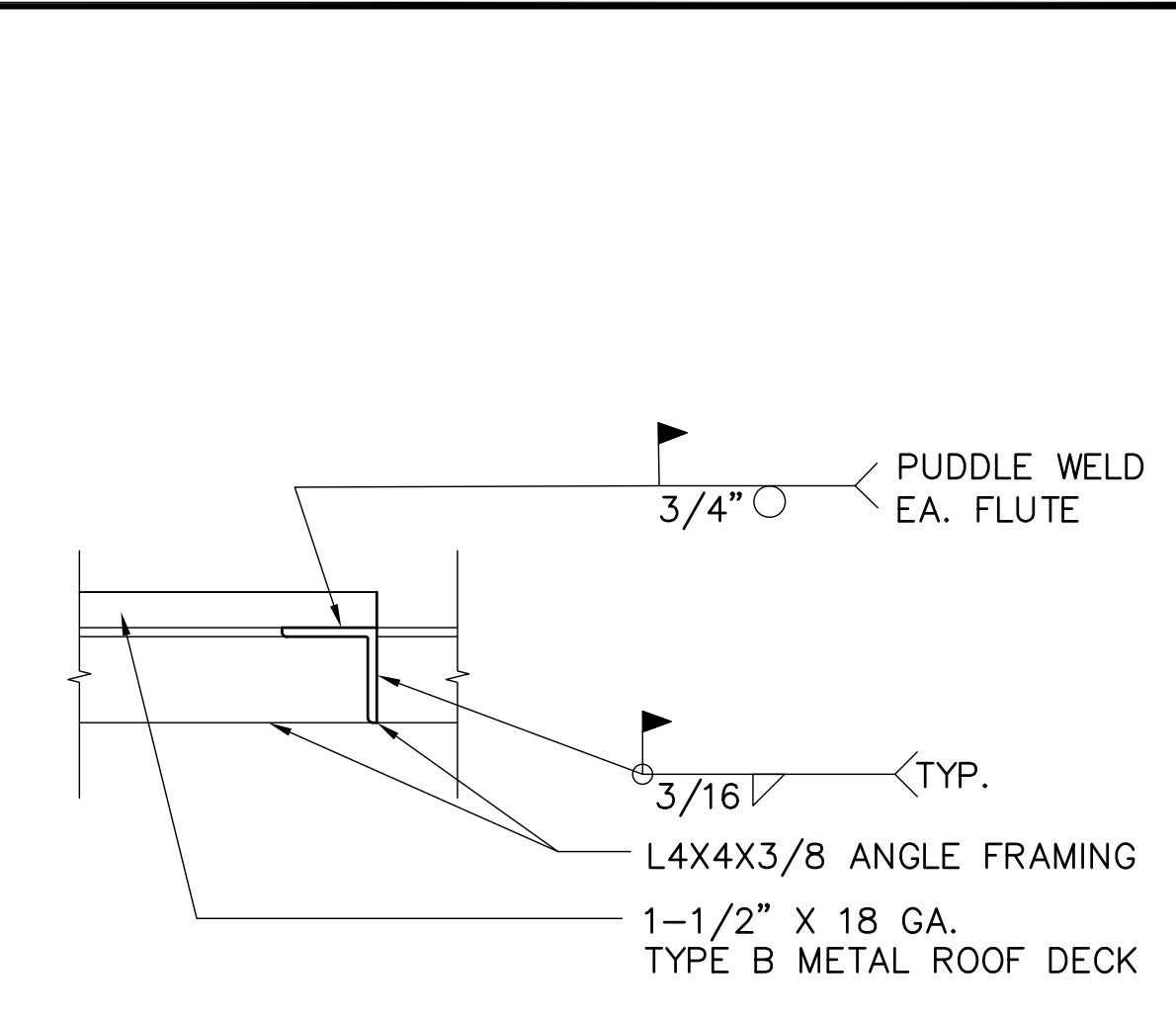
1 ELEVATOR FRAMING DETAIL
S6.3 1" = 1'-0"



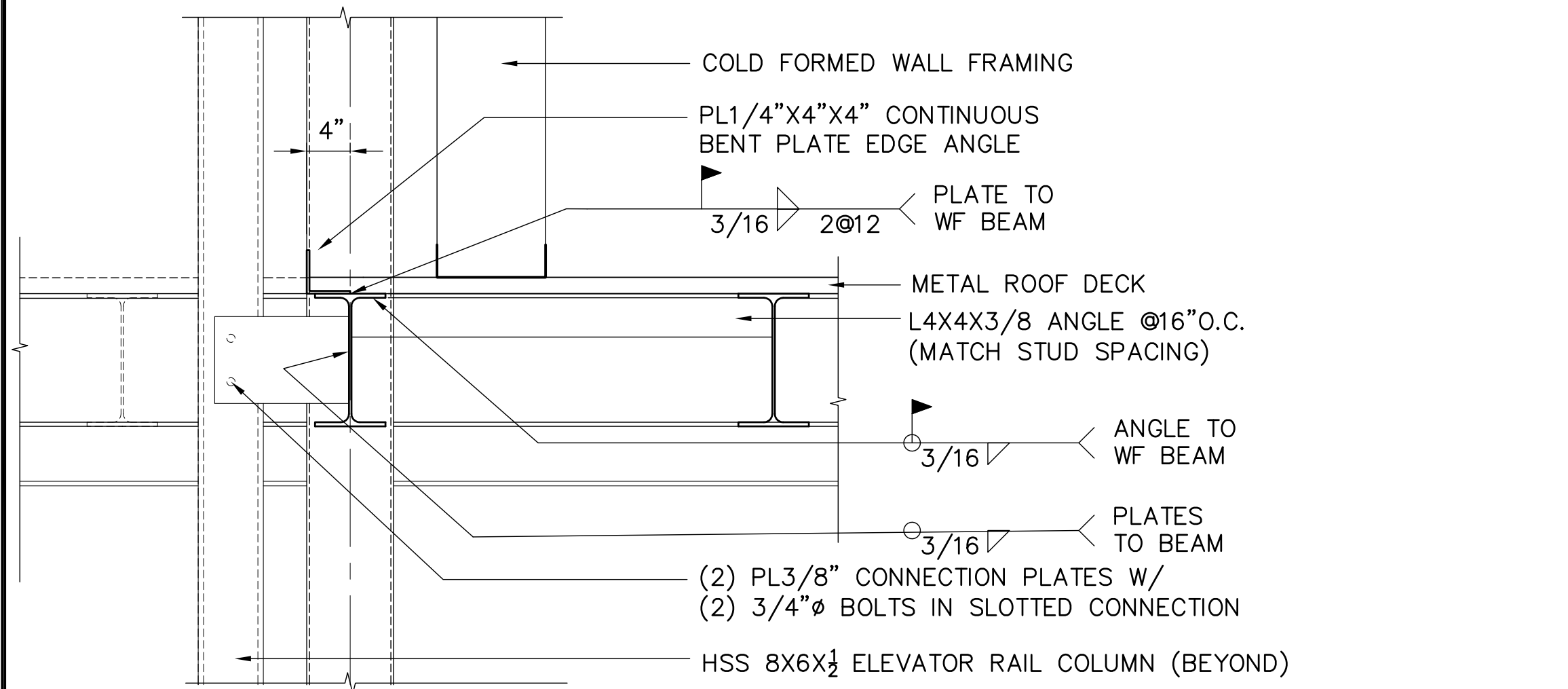
2 PARTITION BEAM DETAIL
S6.3 1" = 1'-0"



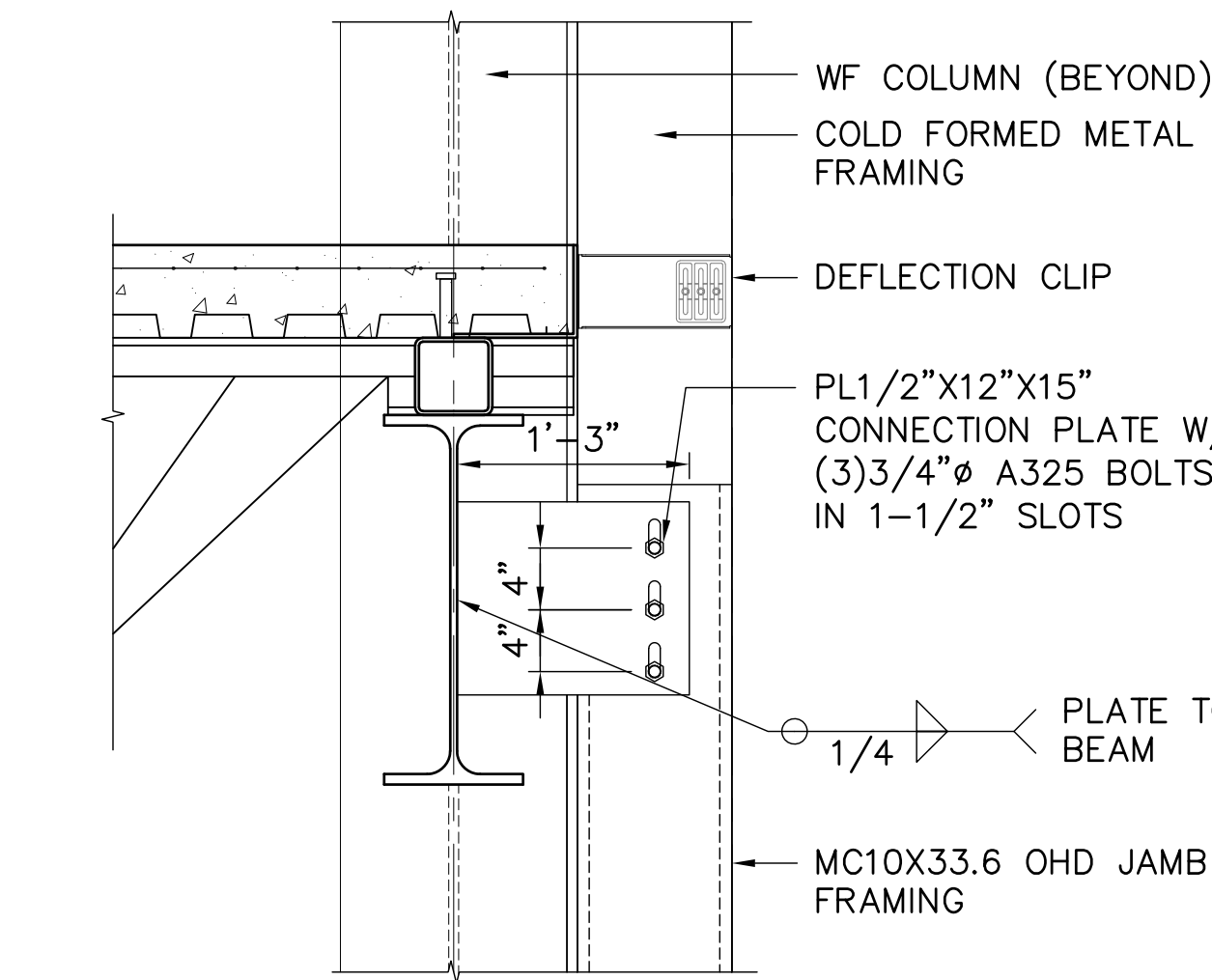
3 PARTITION BEAM DETAIL
S6.3 1" = 1'-0"



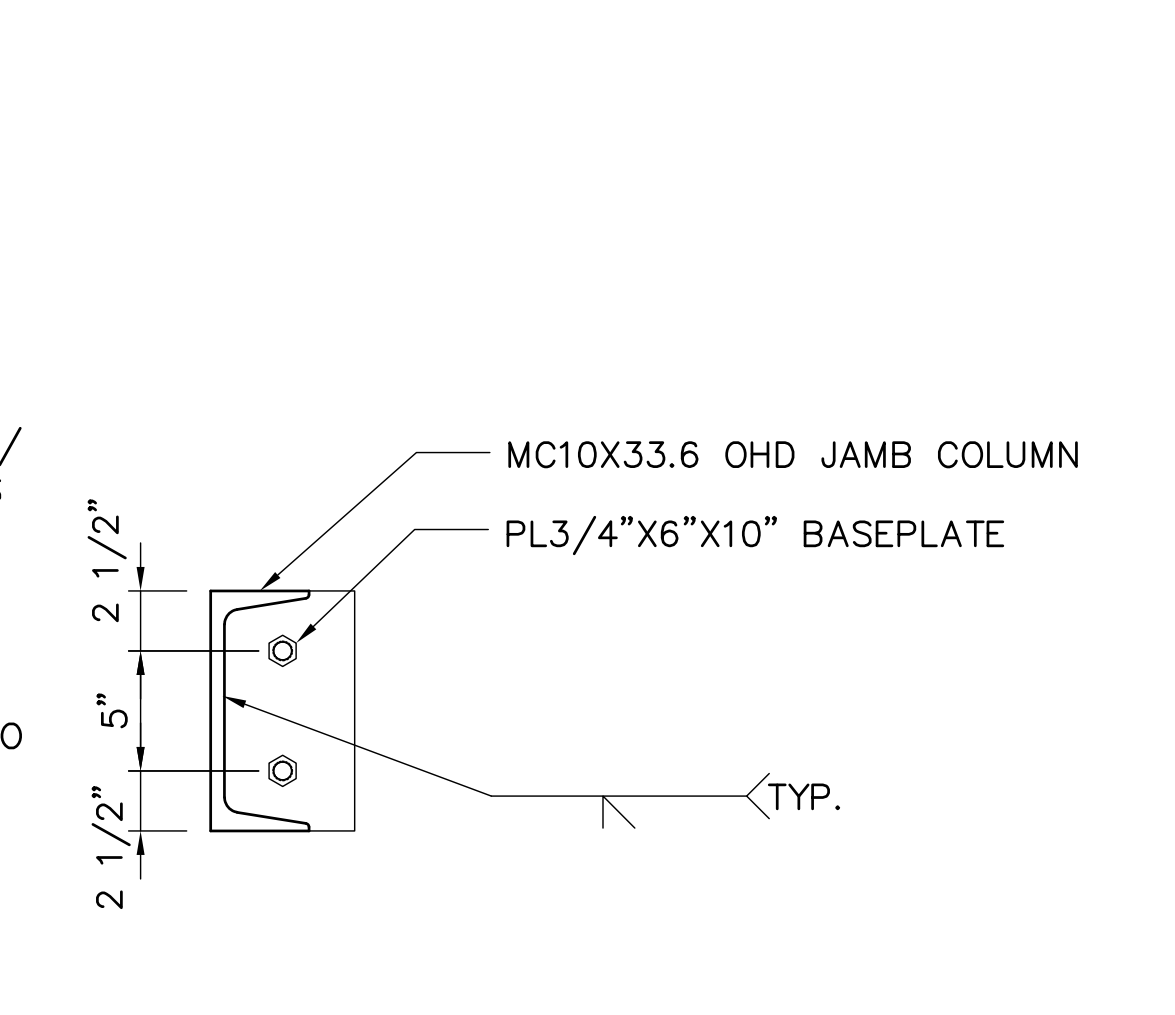
4 ROOF PENETRATION DETAIL
S6.3 1-1/2" = 1'-0"



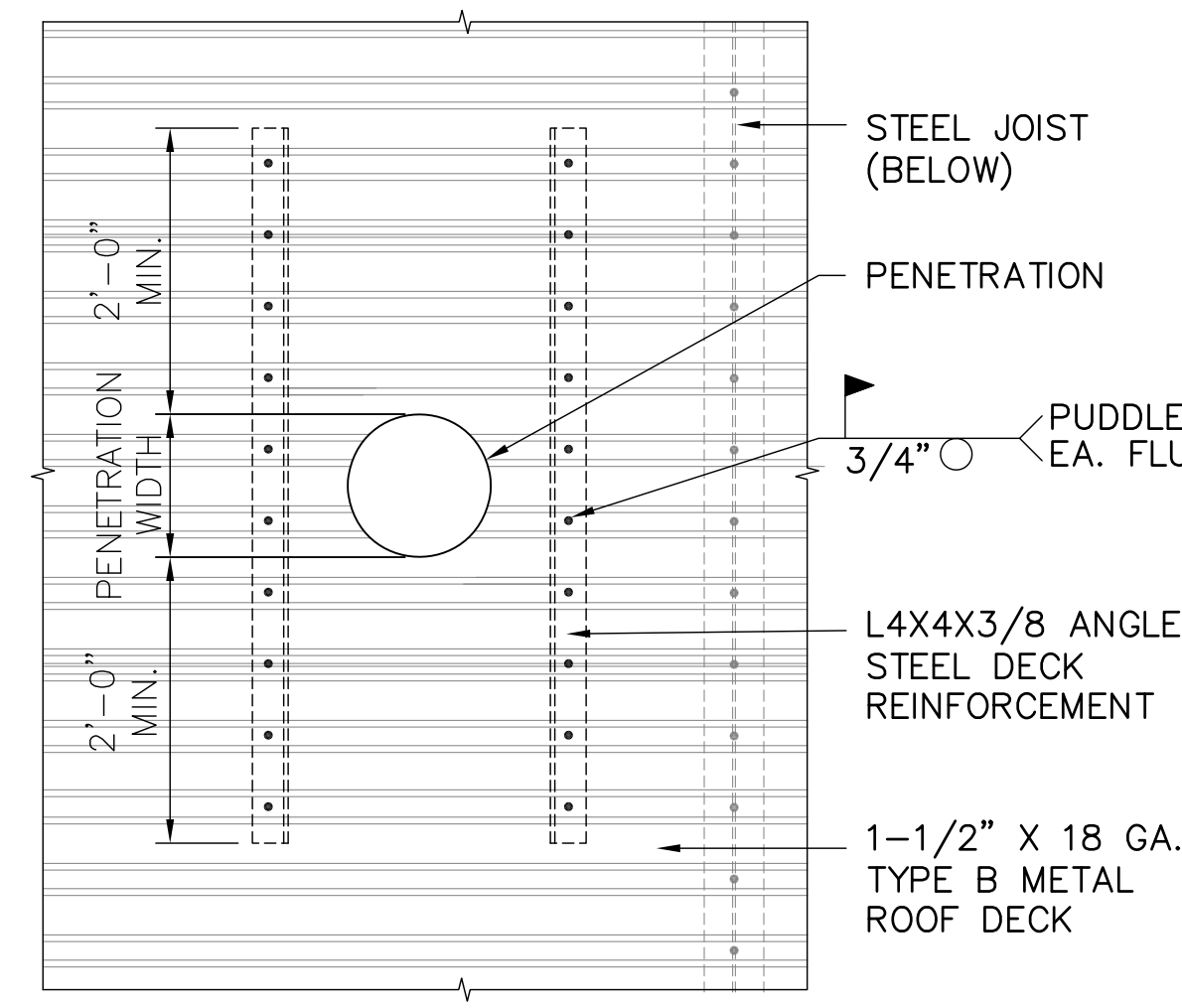
5 ELEVATOR FRAMING DETAIL
S6.3 1" = 1'-0"



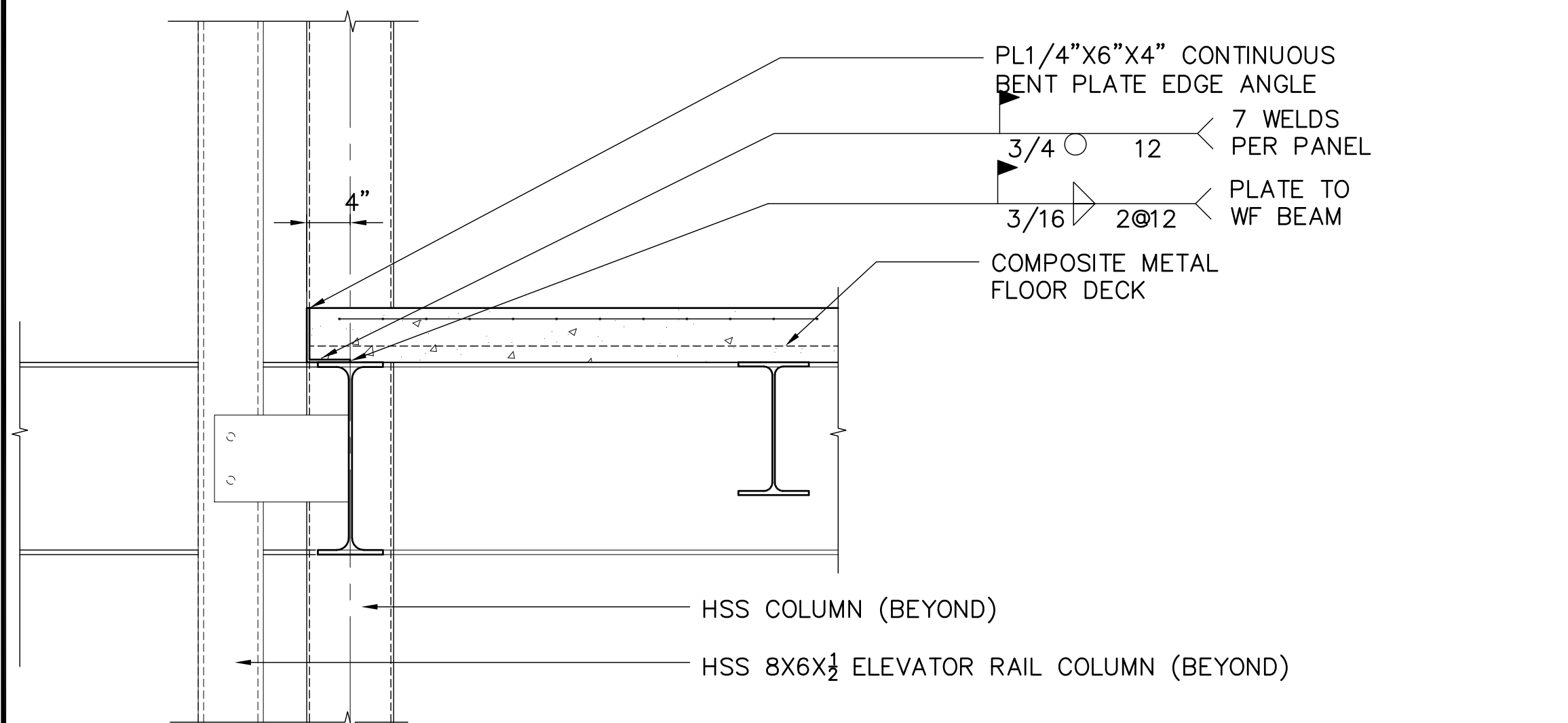
6 OHD JAMB COLUMN DETAIL
S6.3 1" = 1'-0"



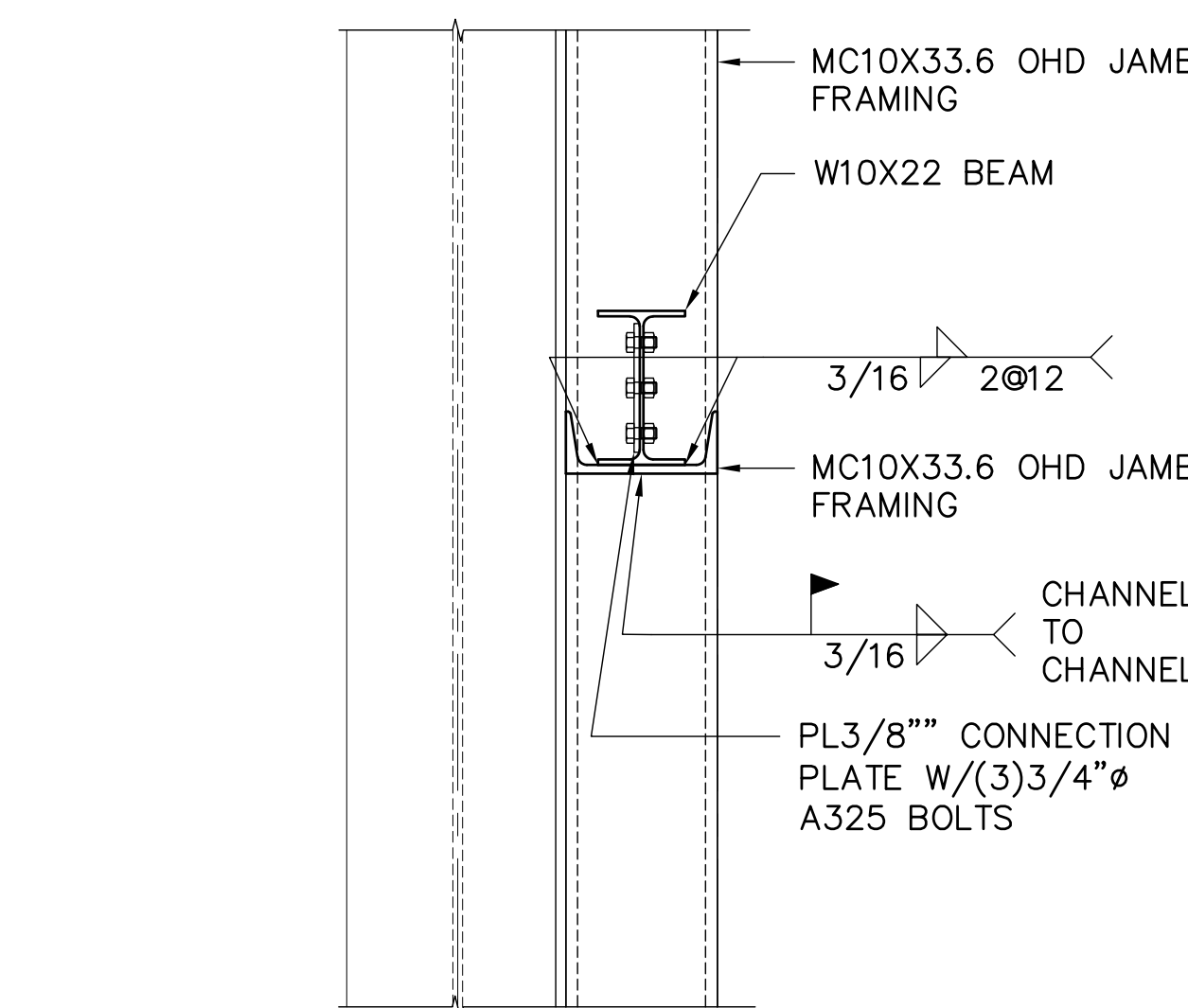
7 OHD JAMB COLUMN DETAIL
S6.3 1-1/2" = 1'-0"



8 ROOF PENETRATION DETAIL
S6.3 3/4" = 1'-0"



9 ELEVATOR FRAMING DETAIL
S6.3 1" = 1'-0"



10 OHD BEAM DETAIL
S6.3 1" = 1'-0"

REV	DATE	DESCRIPTION	BY

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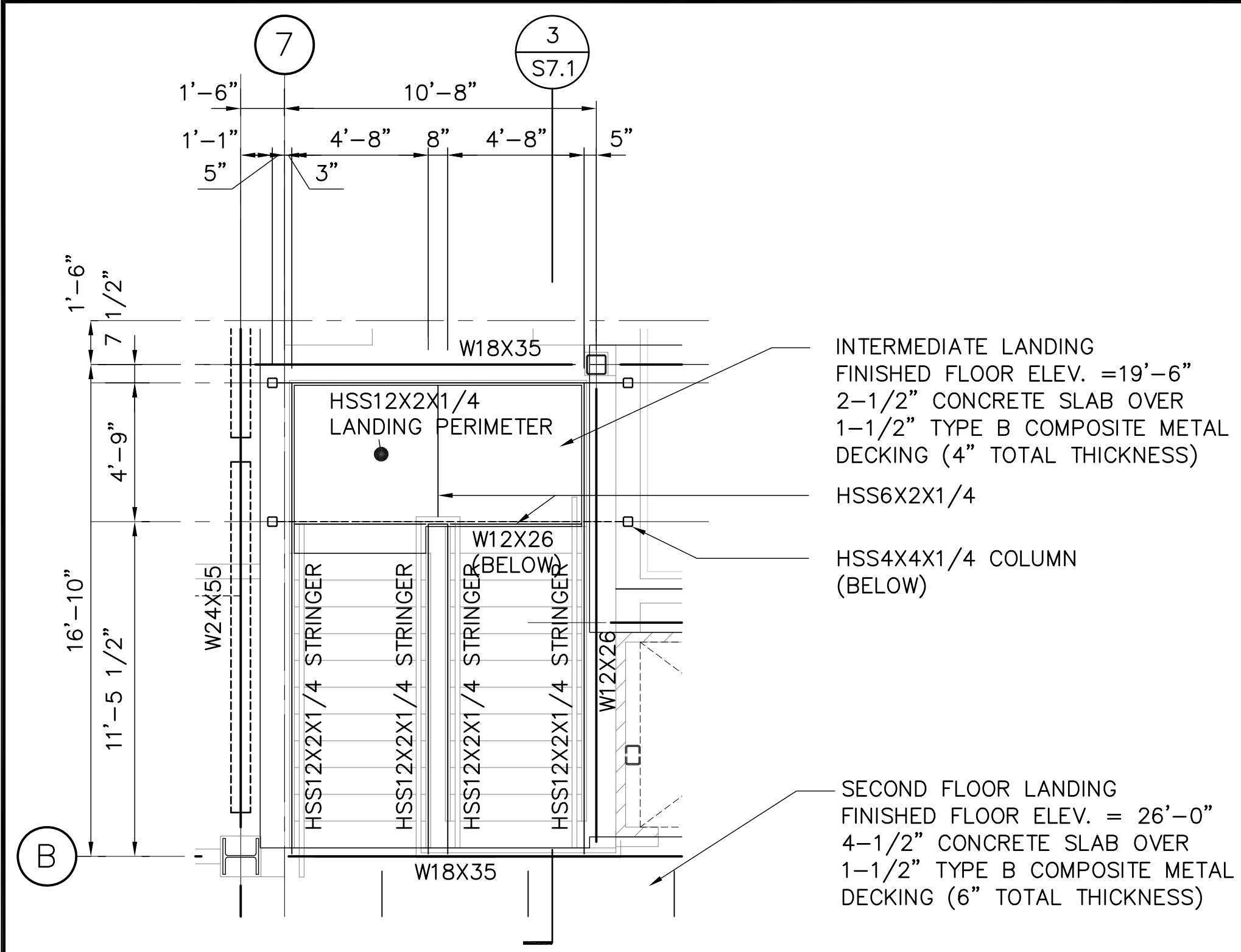
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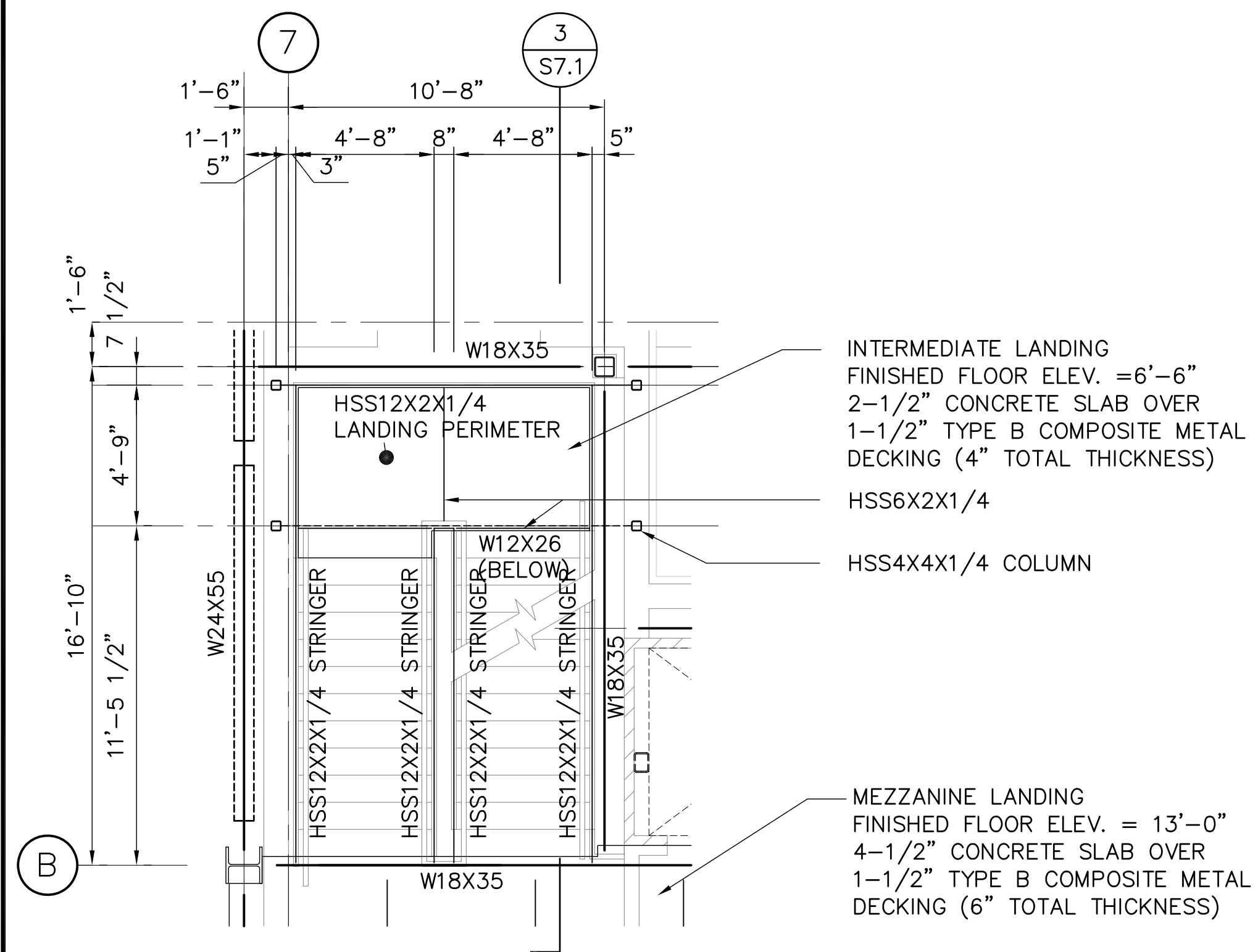
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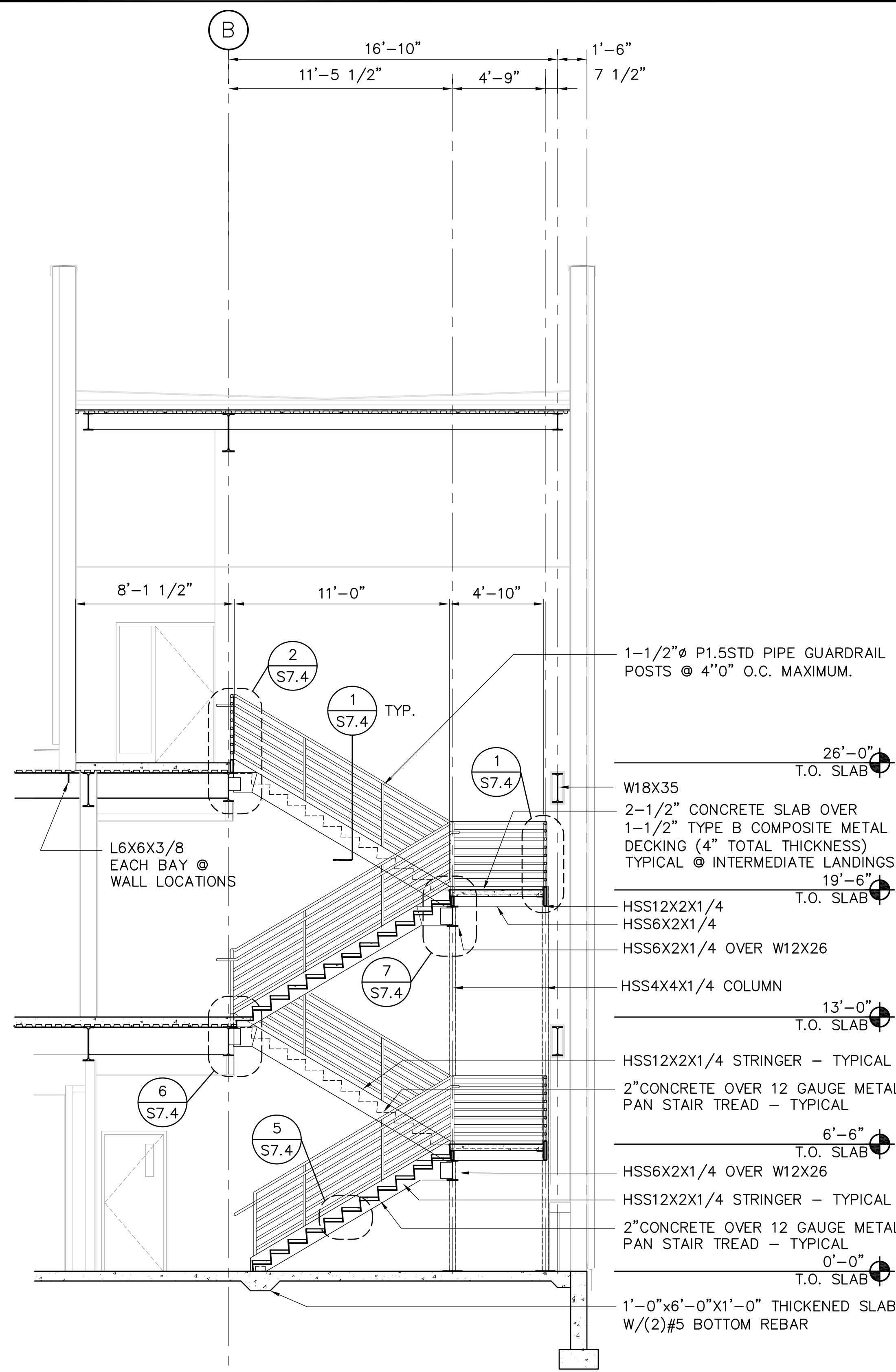
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
STEEL FRAMING DETAILS
S6.3
HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775
SHEET 175 of 288



1 ST1 FRAMING PLAN @ ELEVATION 26'-0"
S7.1 1/4" = 1'-0"



2 ST1 FRAMING PLAN @ ELEVATION 13'-0"
S7.1 1/4" = 1'-0"



3 ST1 FRAMING SECTION
S7.1 1/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

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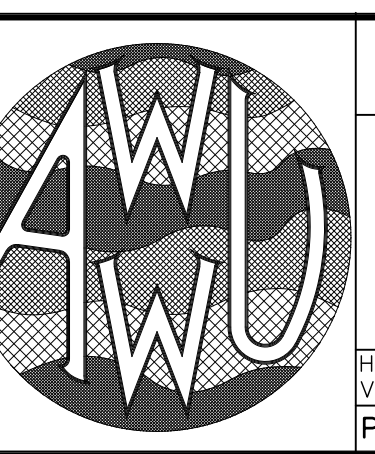
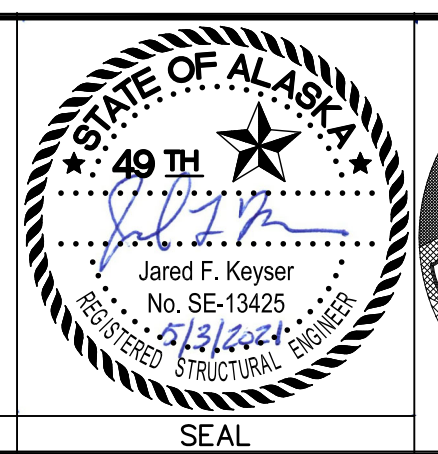
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WATER & WASTEWATER UTILITY

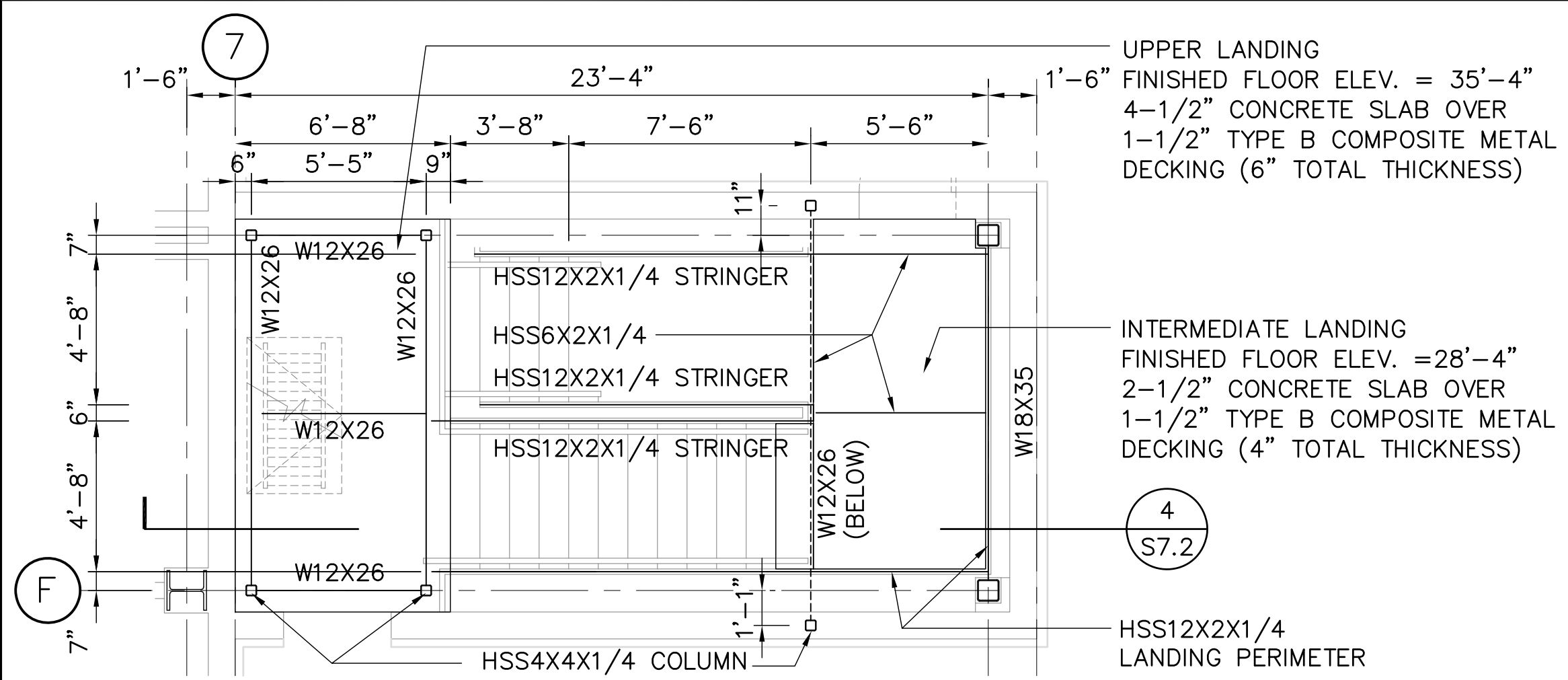
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

ST1 FRAMING PLANS, SECTION

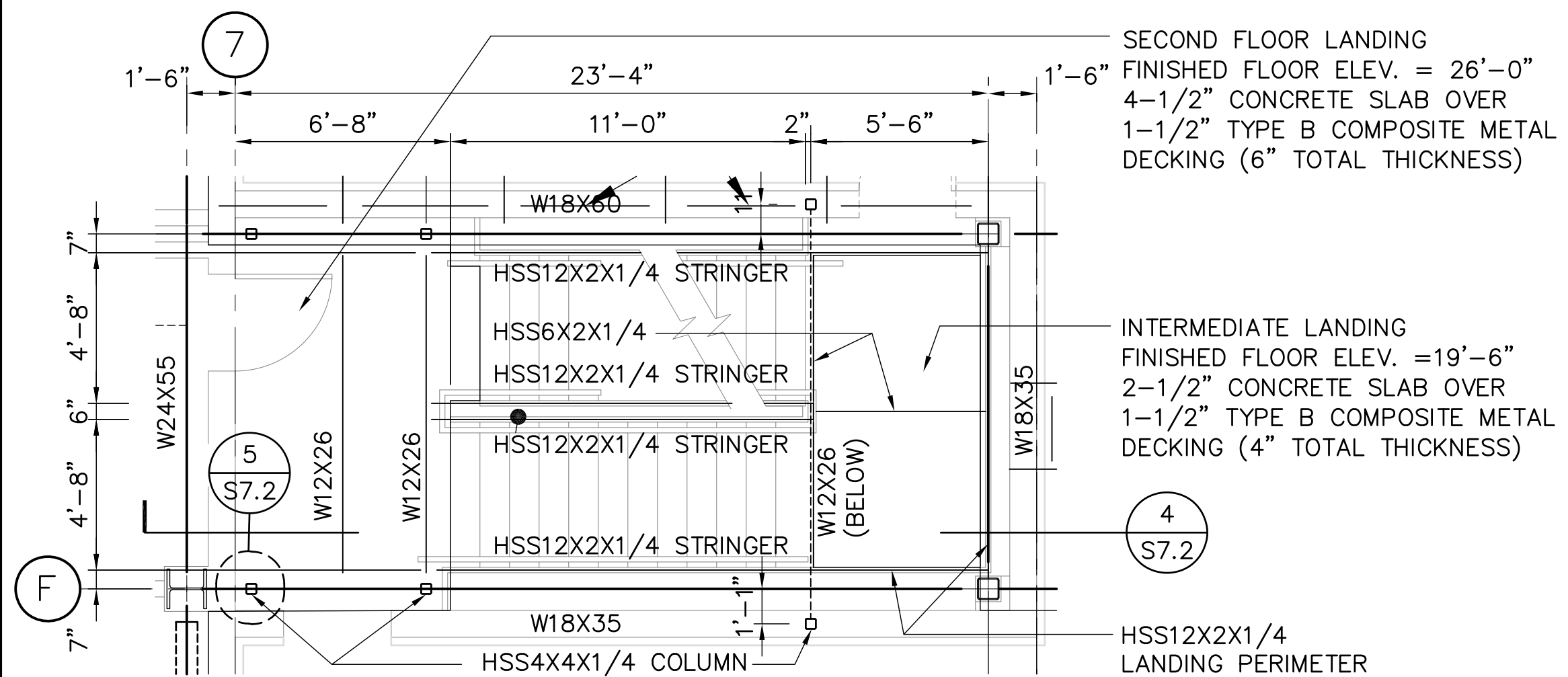
DWG S7.1

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

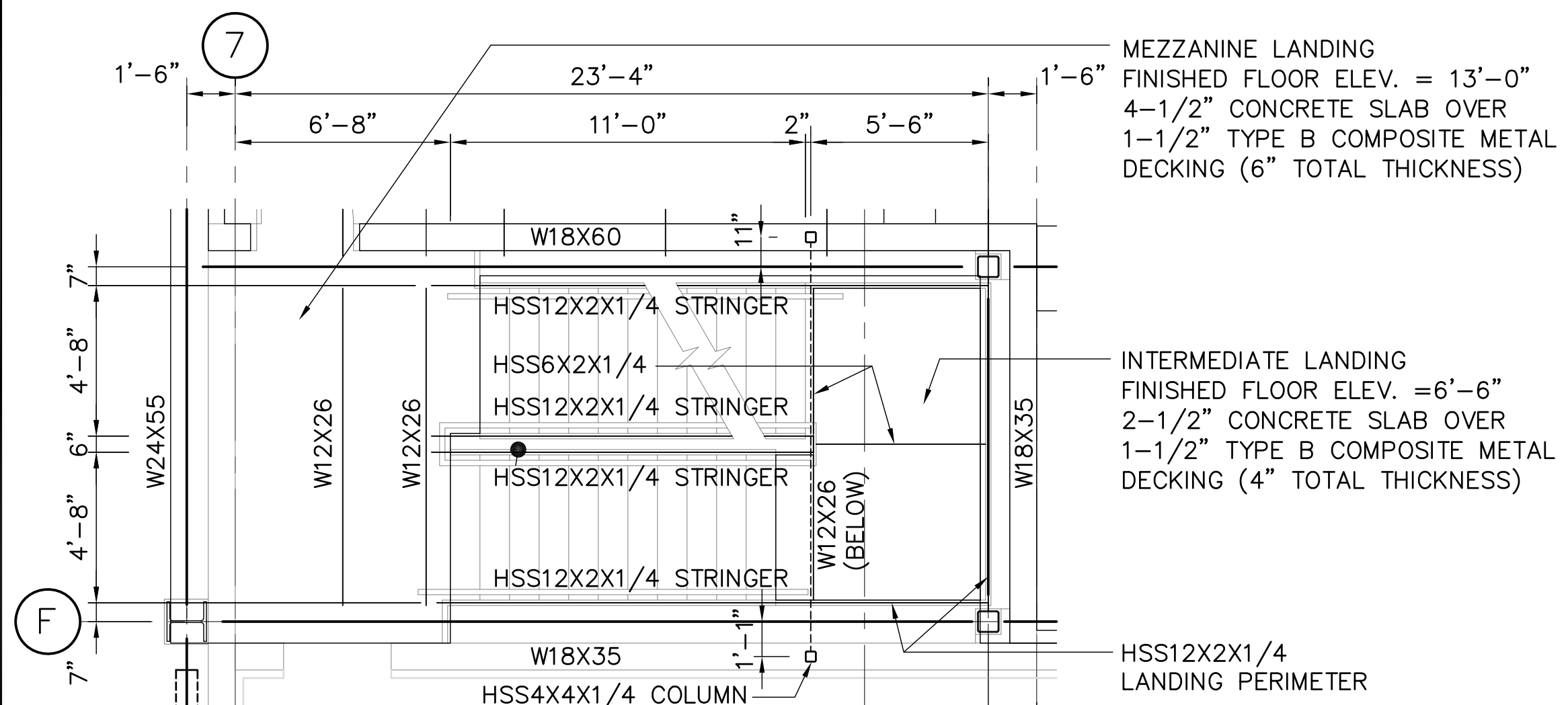
SHEET 176 of 288



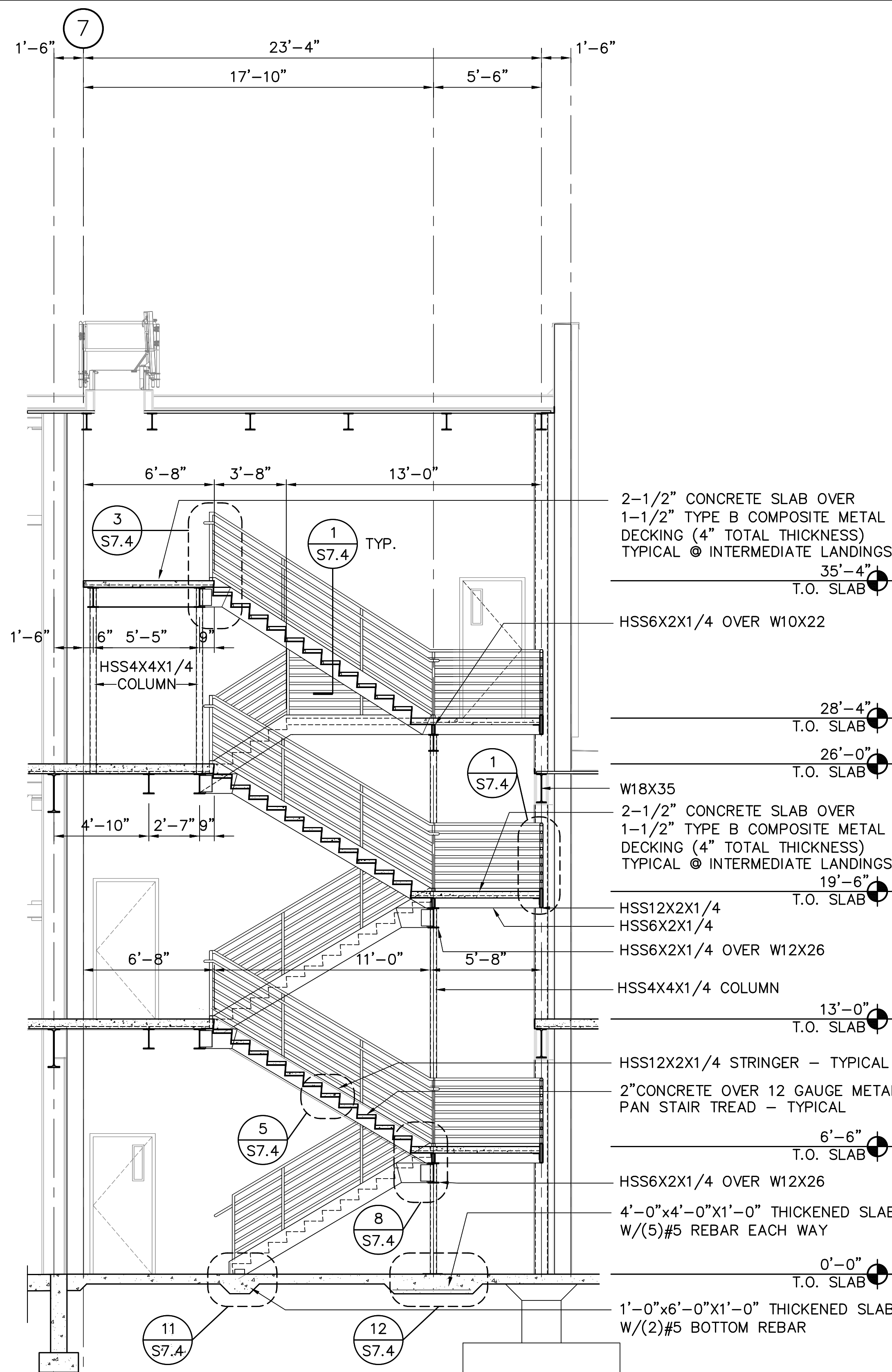
1 ST3 FRAMING PLAN @ ELEVATION 35'-4"
S7.2 1/4" = 1'-0"



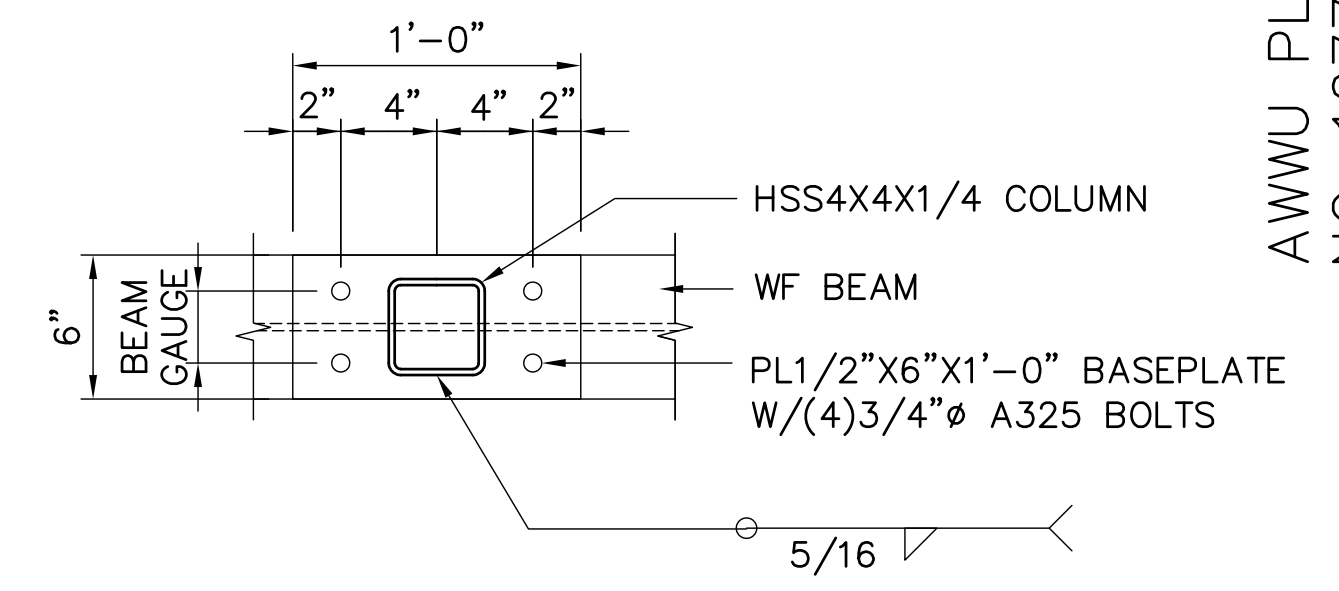
2 ST3 FRAMING PLAN @ ELEVATION 26'-0"
S7.2 1/4" = 1'-0"



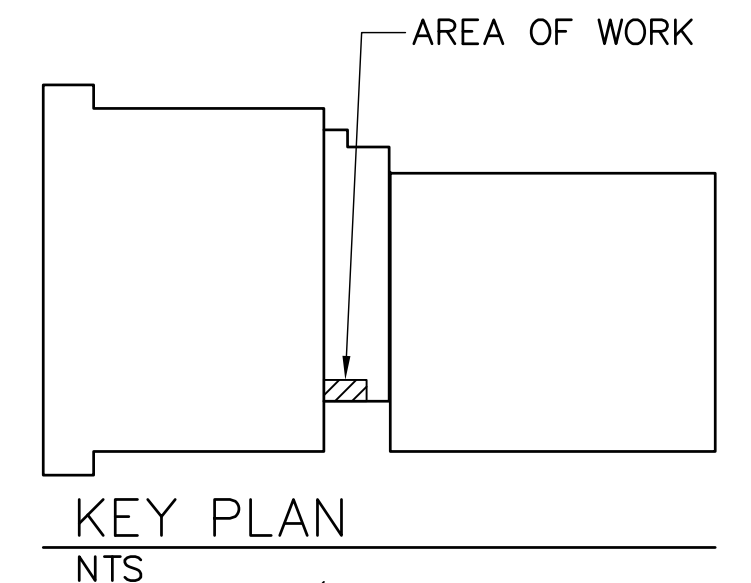
3 ST3 FRAMING PLAN @ ELEVATION 13'-0"
S7.2 1/4" = 1'-0"



4 ST3 FRAMING SECTION
S7.2 1/4" = 1'-0"



5 HSS POST BASE DETAIL-TYPICAL
S7.2 1-1/2" = 1'-0"



REV	DATE	DESCRIPTION	BY

VERIFY SCALE: IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

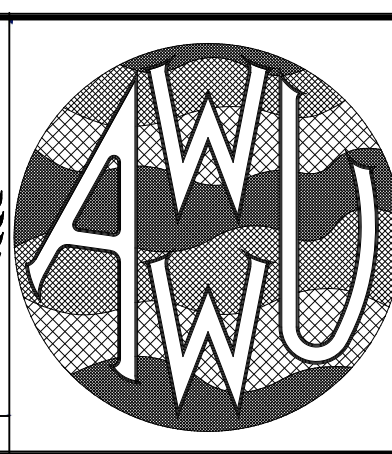
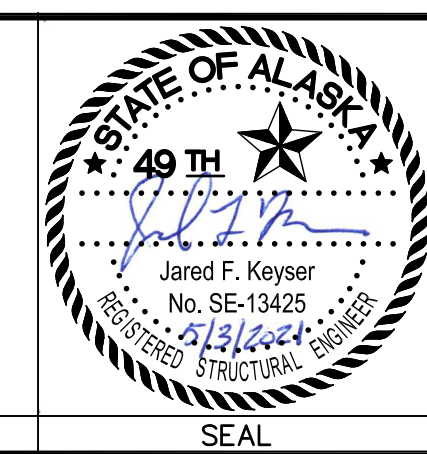
1. DATA PROVIDED BY: This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
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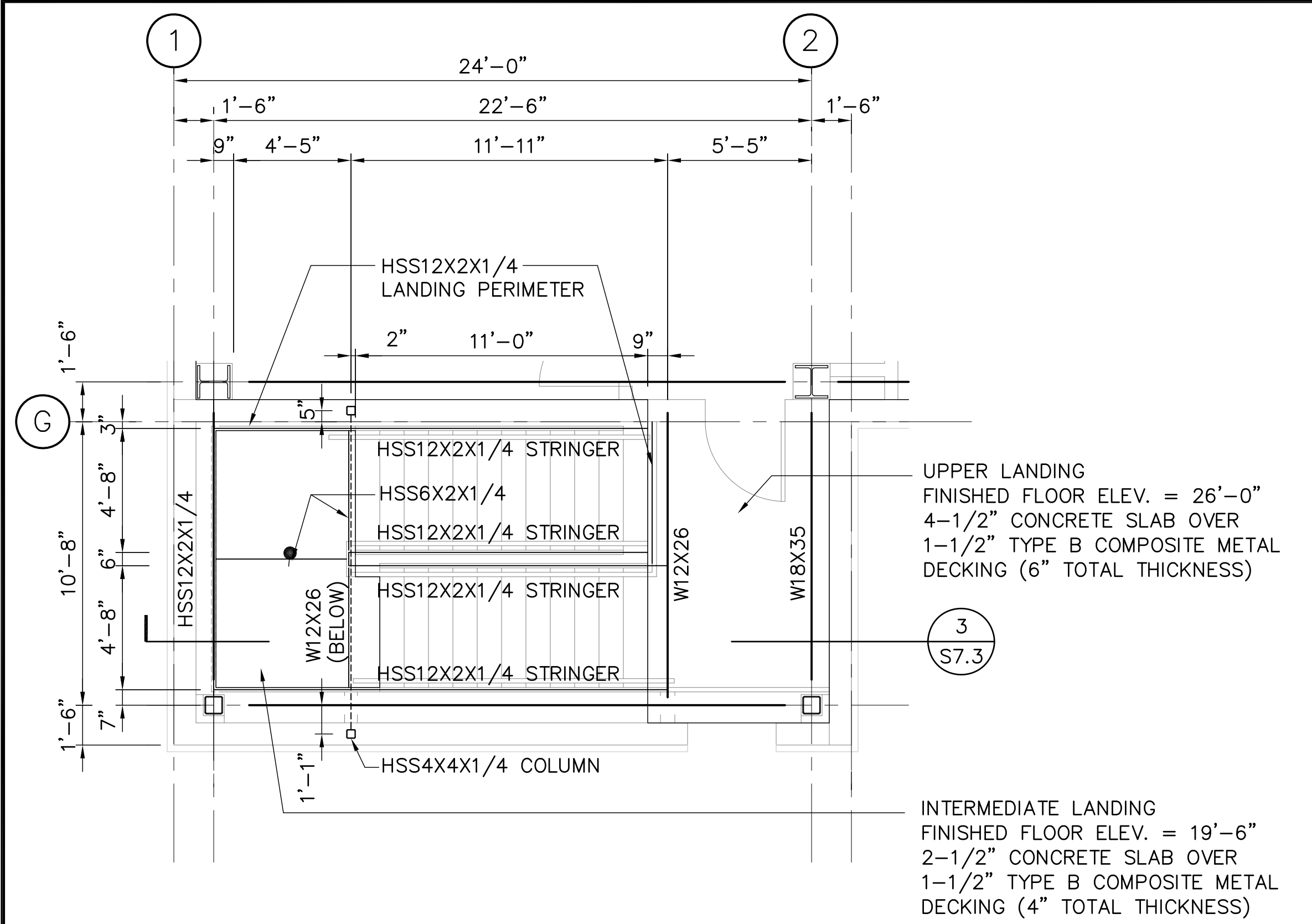
2. DATA TRANSFERRED BY: _____ COMPANY: _____ DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
DATA TRANSFER CHECKED BY: _____ COMPANY: _____ DATE: _____ TITLE: _____ BY: _____

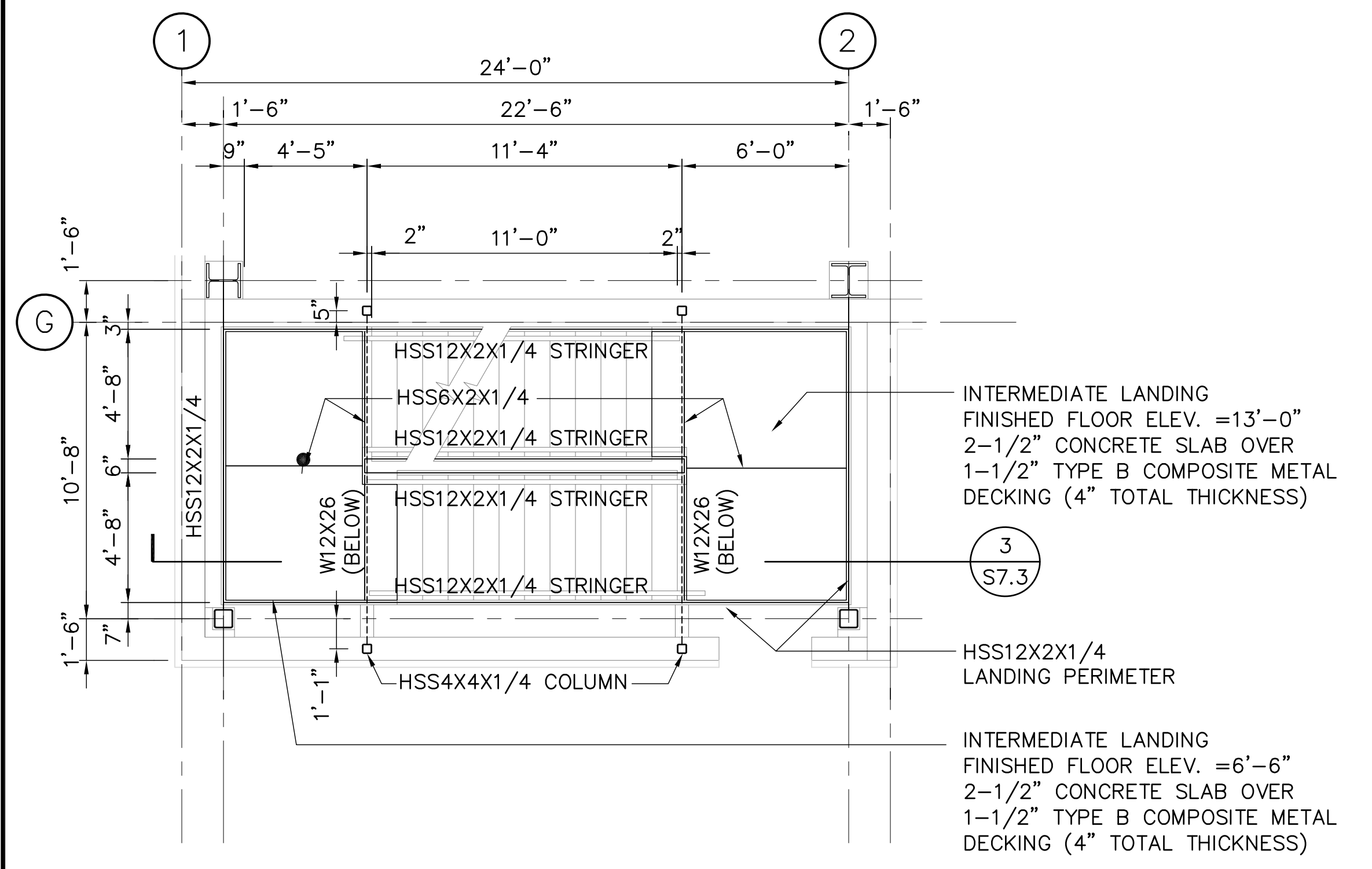
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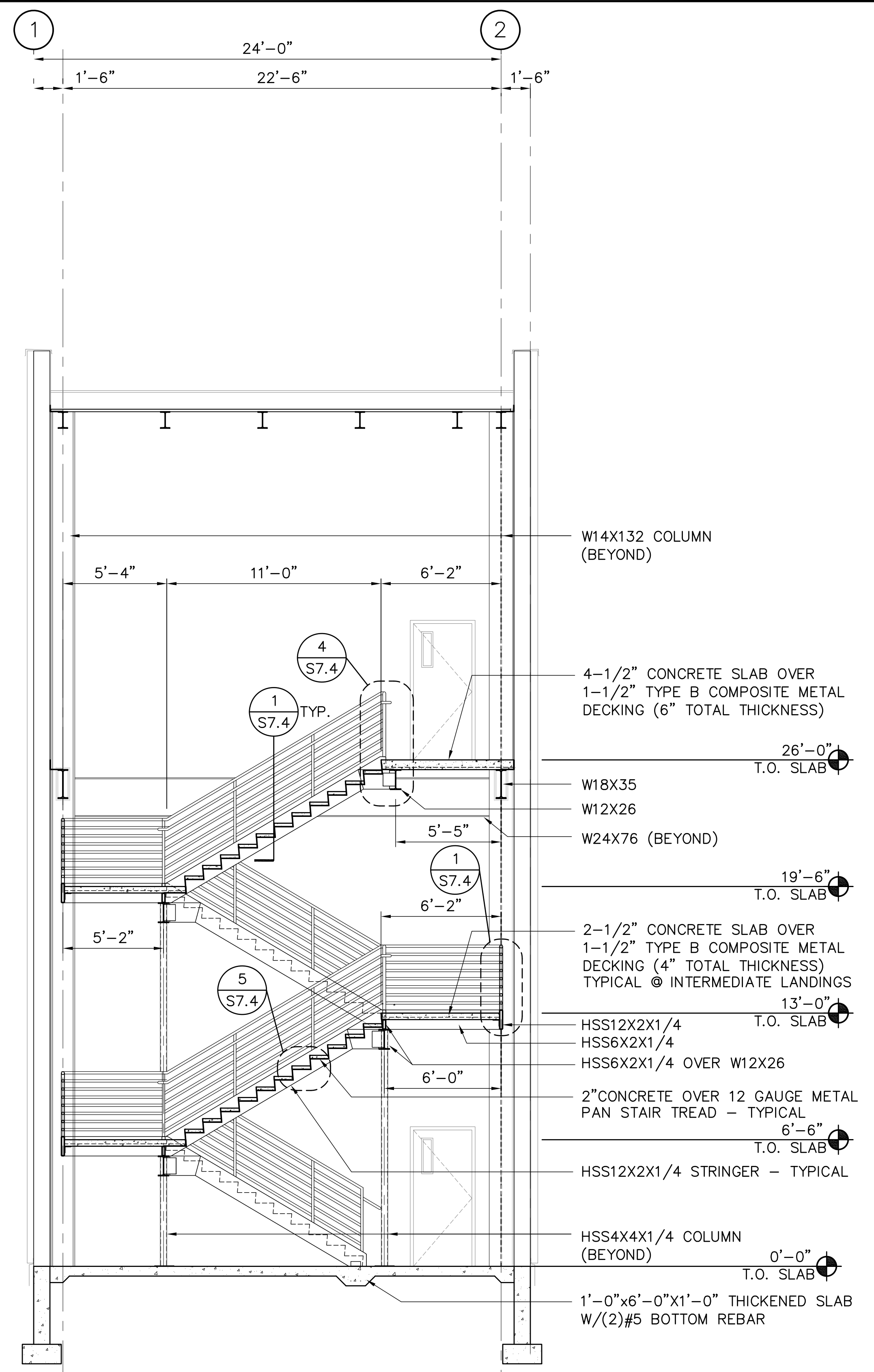




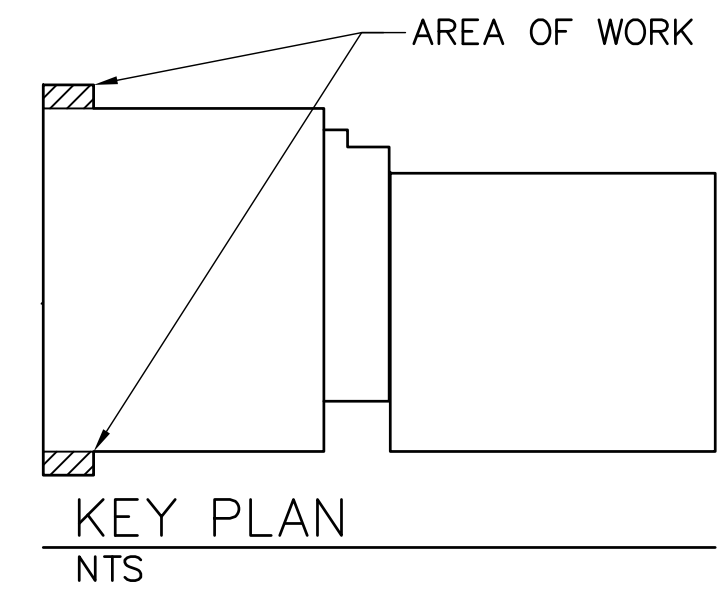
1 ST4 FRAMING PLAN @ ELEVATION 26'-0" (ST2 SIMILAR - OPP HAND)
S7.3 1/4" = 1'-0"



2 ST4 FRAMING PLAN @ ELEVATION 13'-0" (ST2 SIMILAR - OPP HAND)
S7.3 1/4" = 1'-0"



3 ST4 FRAMING SECTION
S7.3 1/4" = 1'-0"



REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

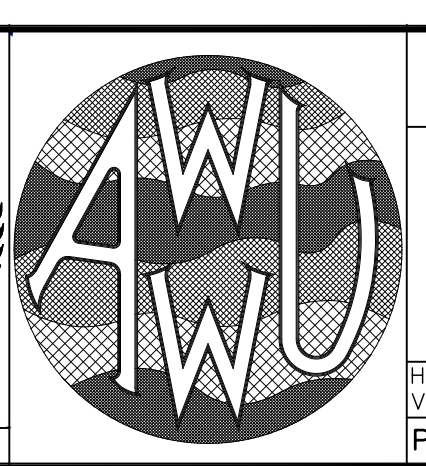
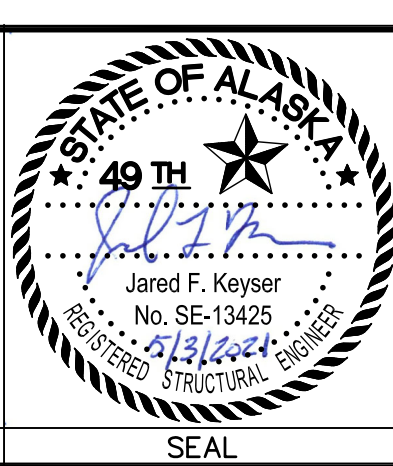
1. DATA PROVIDED BY: _____
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CONTRACTOR: _____
DATE: _____ TITLE: _____
BY: _____

2. DATA TRANSFERRED BY: _____
COMPANY: _____
DATE: _____

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COMPANY: _____
DATE: _____ TITLE: _____
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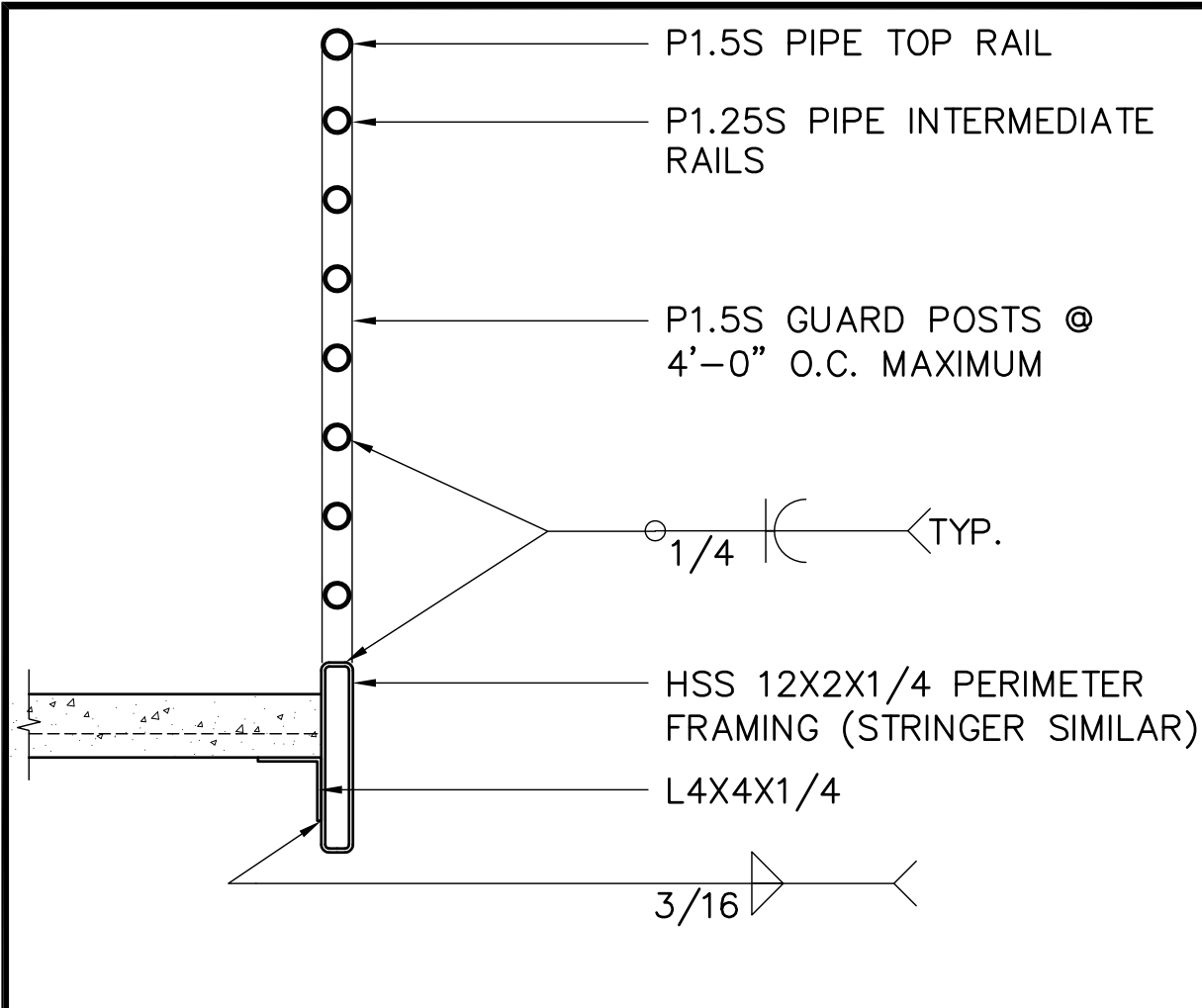
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

**ST4 FRAMING PLANS, SECTION
ST2 SIMILAR (OPPOSITE HAND)**

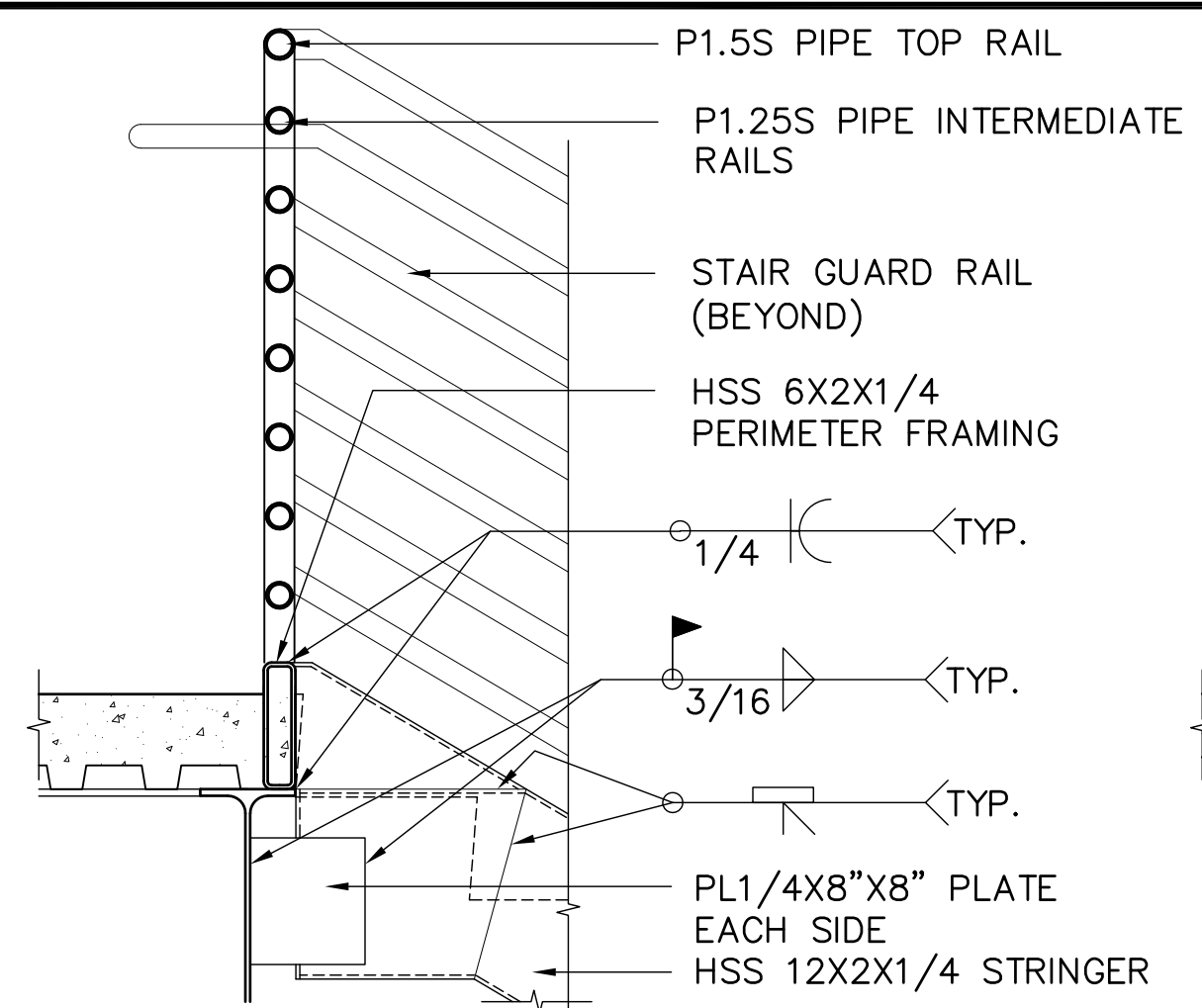
DWG **S7.3**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

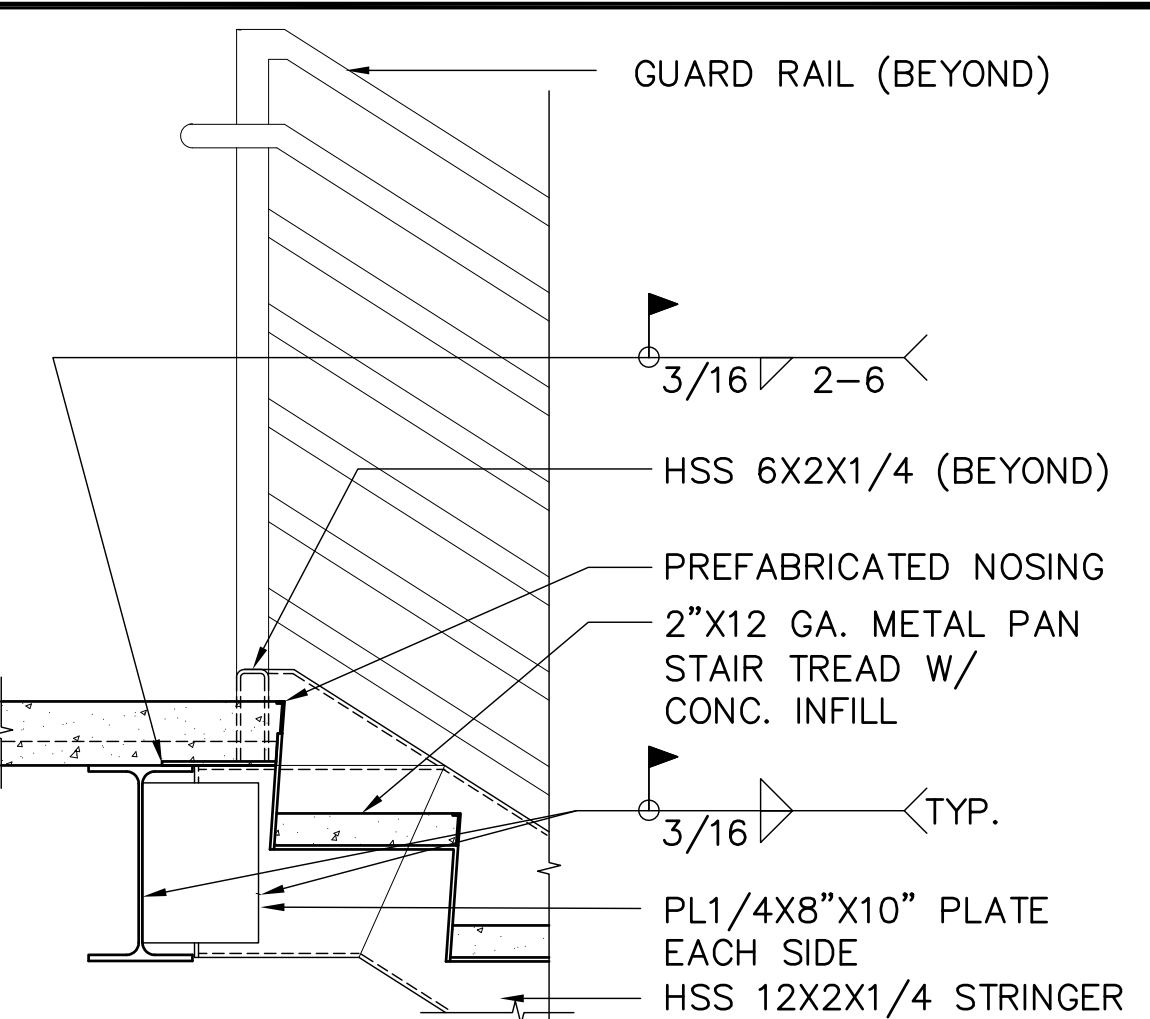
SHEET 178 of 288



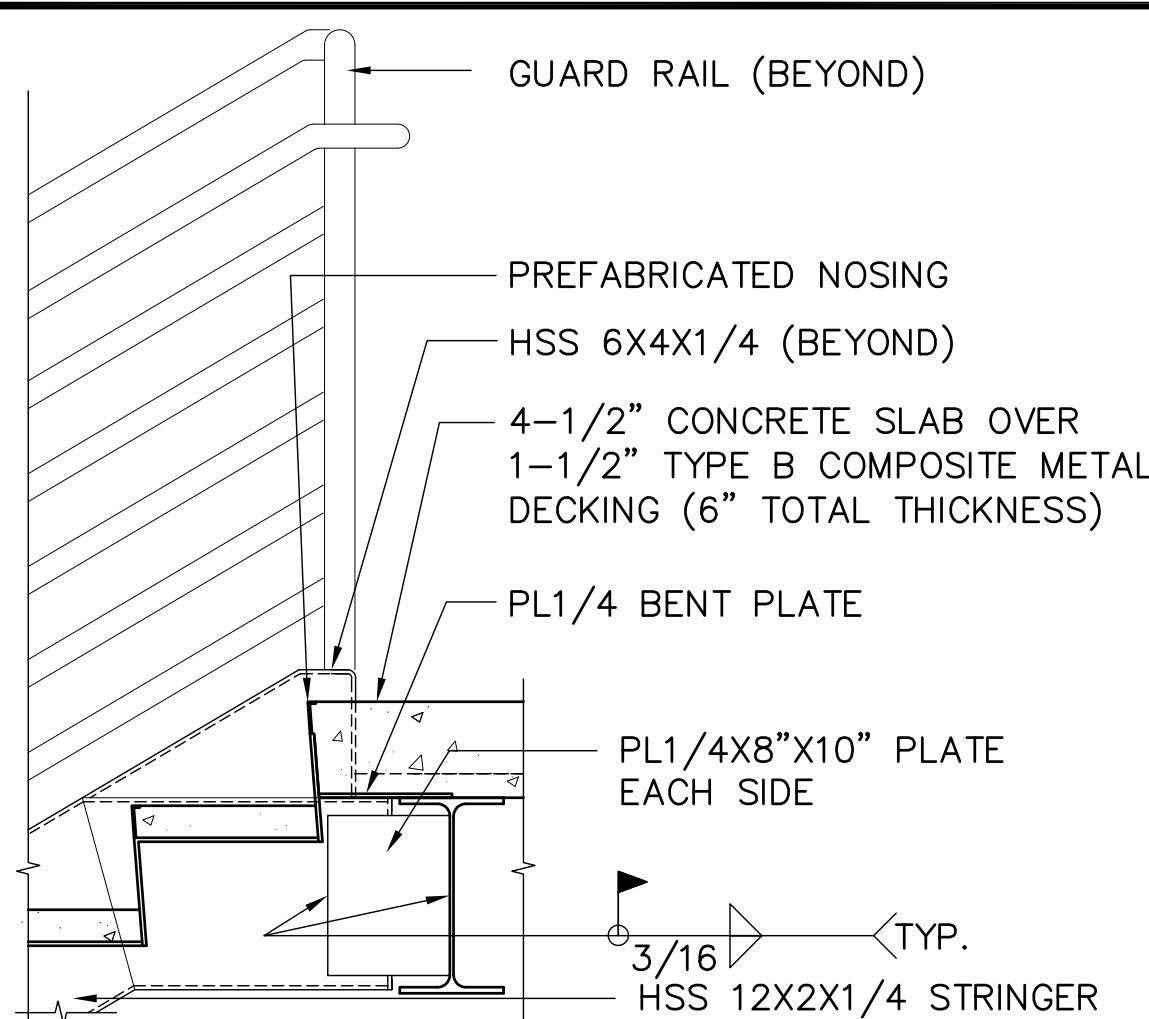
1 GUARDRAIL DETAIL - TYPICAL
S7.4 1" = 1'-0"



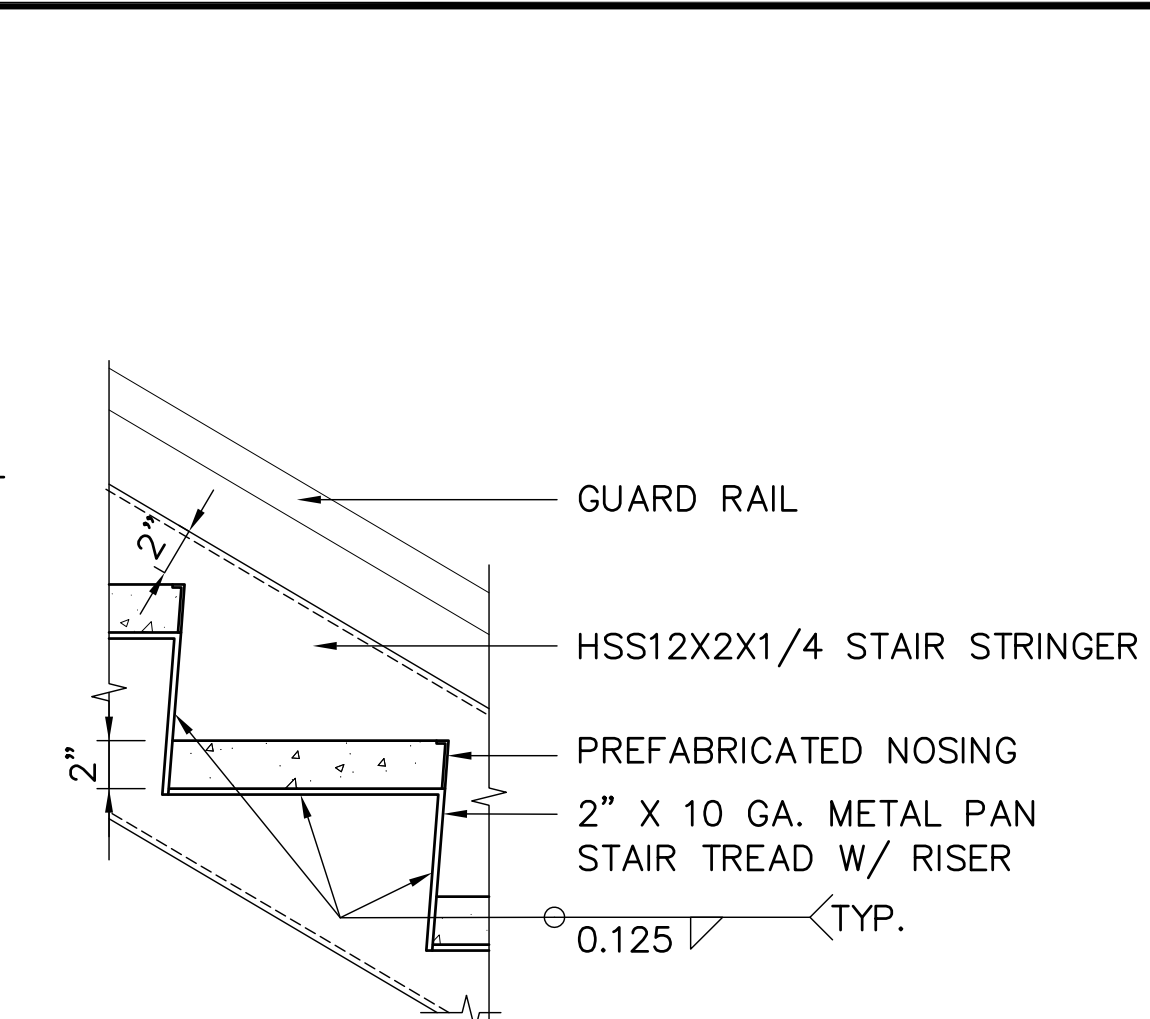
2 GUARDRAIL DETAIL - TYPICAL
S7.4 1" = 1'-0"



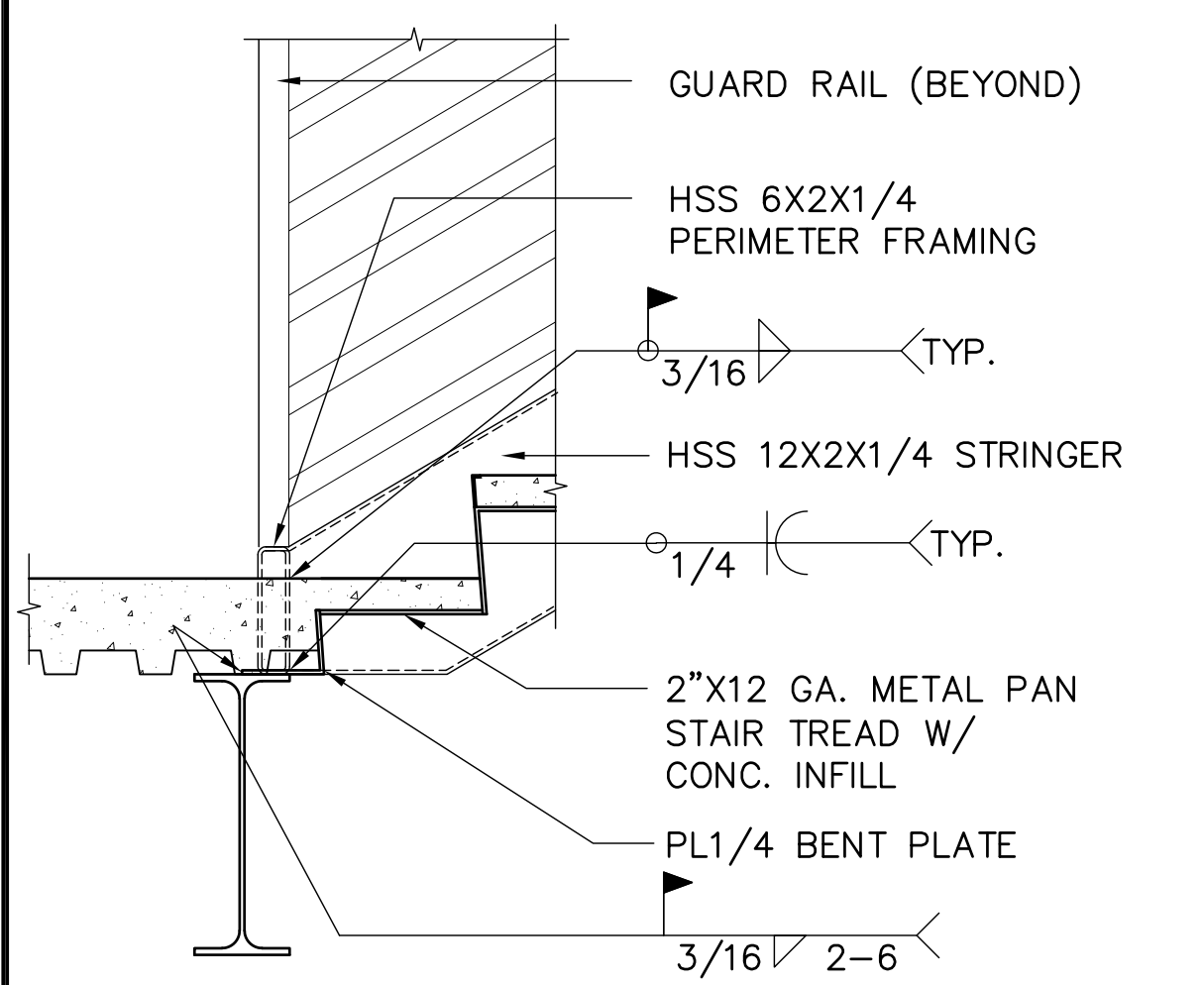
3 STAIR DETAIL
S7.4 1" = 1'-0"



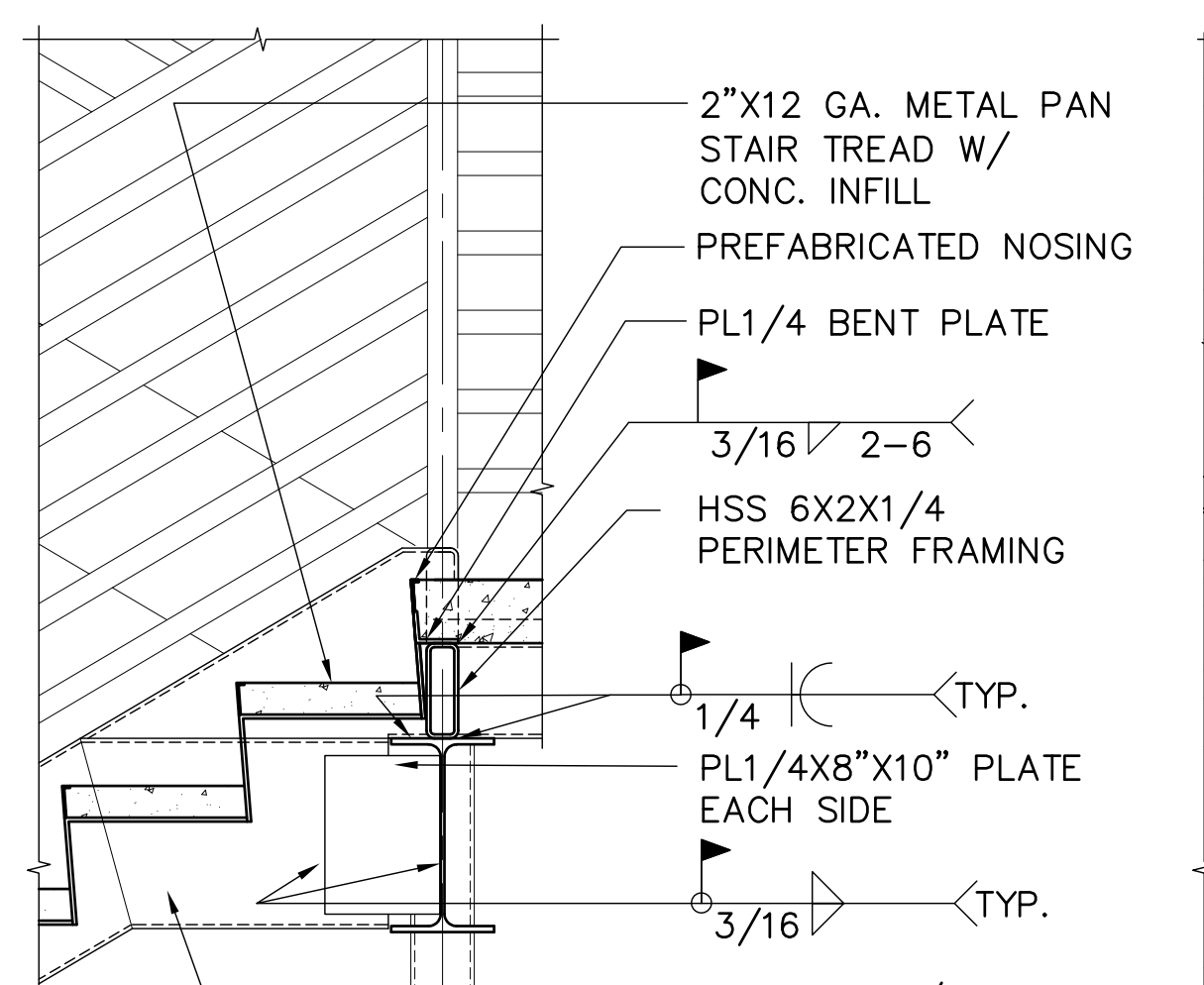
4 STAIR DETAIL
S7.4 1" = 1'-0"



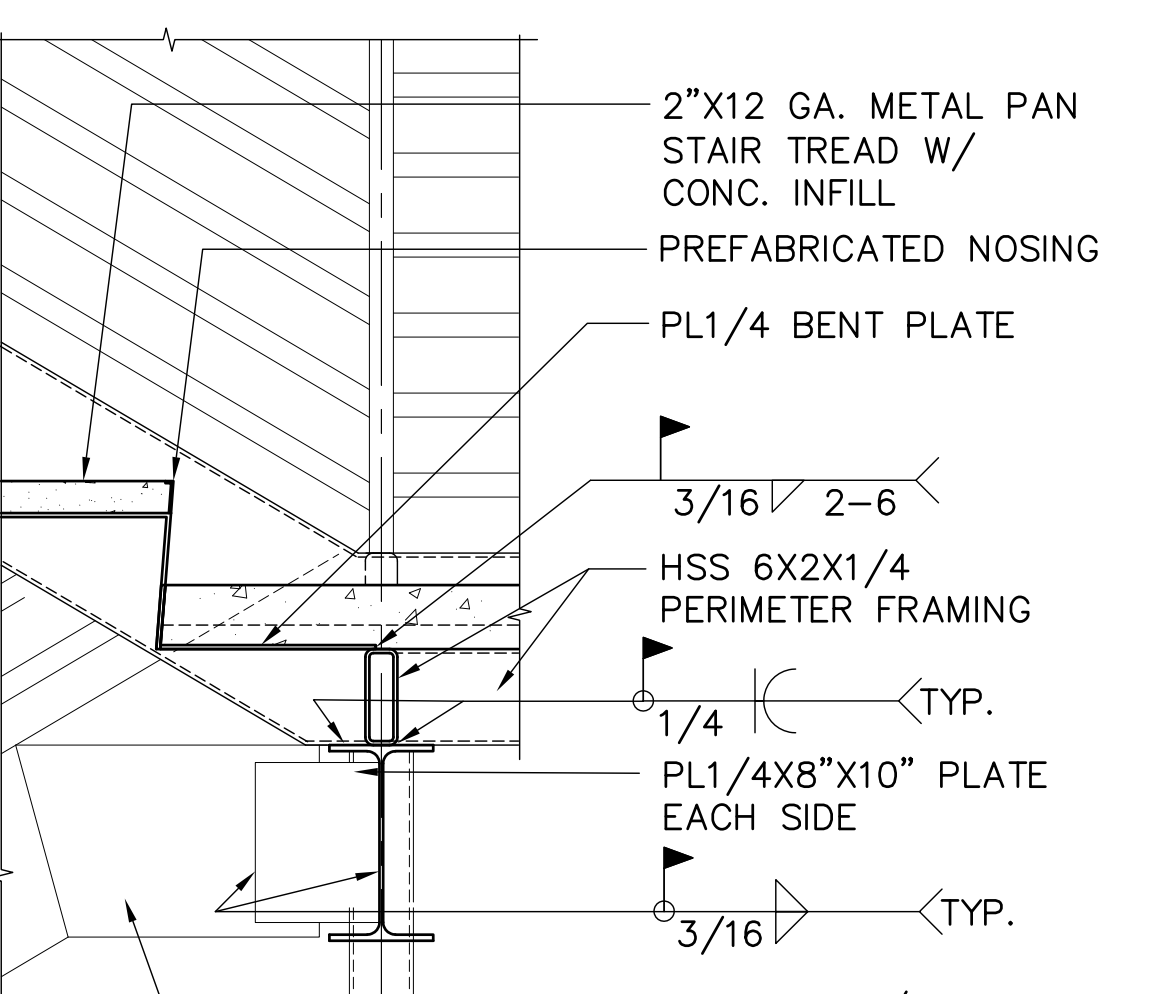
5 STAIR TREAD DETAIL-TYPICAL
S7.4 1-1/2" = 1'-0"



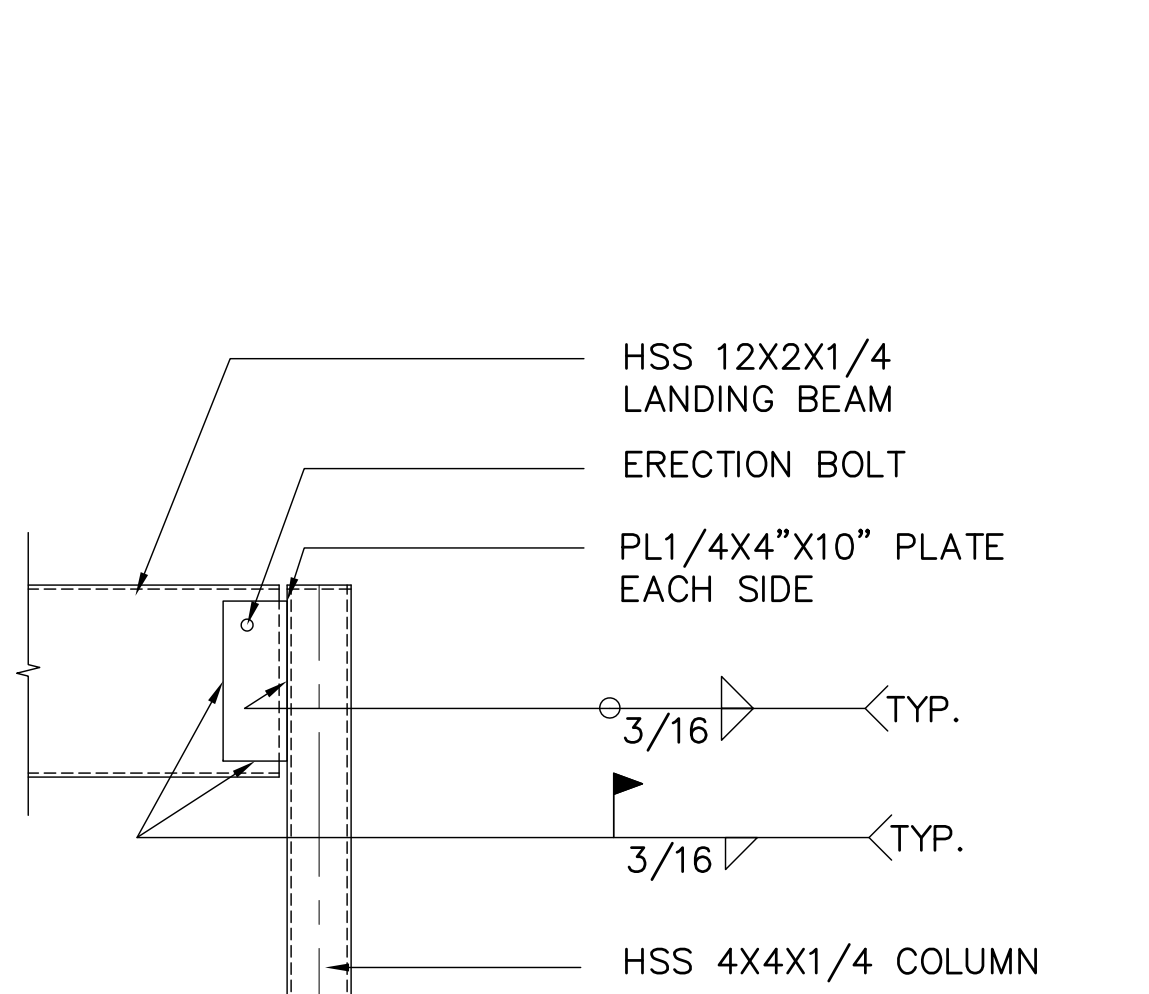
6 STAIR DETAIL
S7.4 1" = 1'-0"



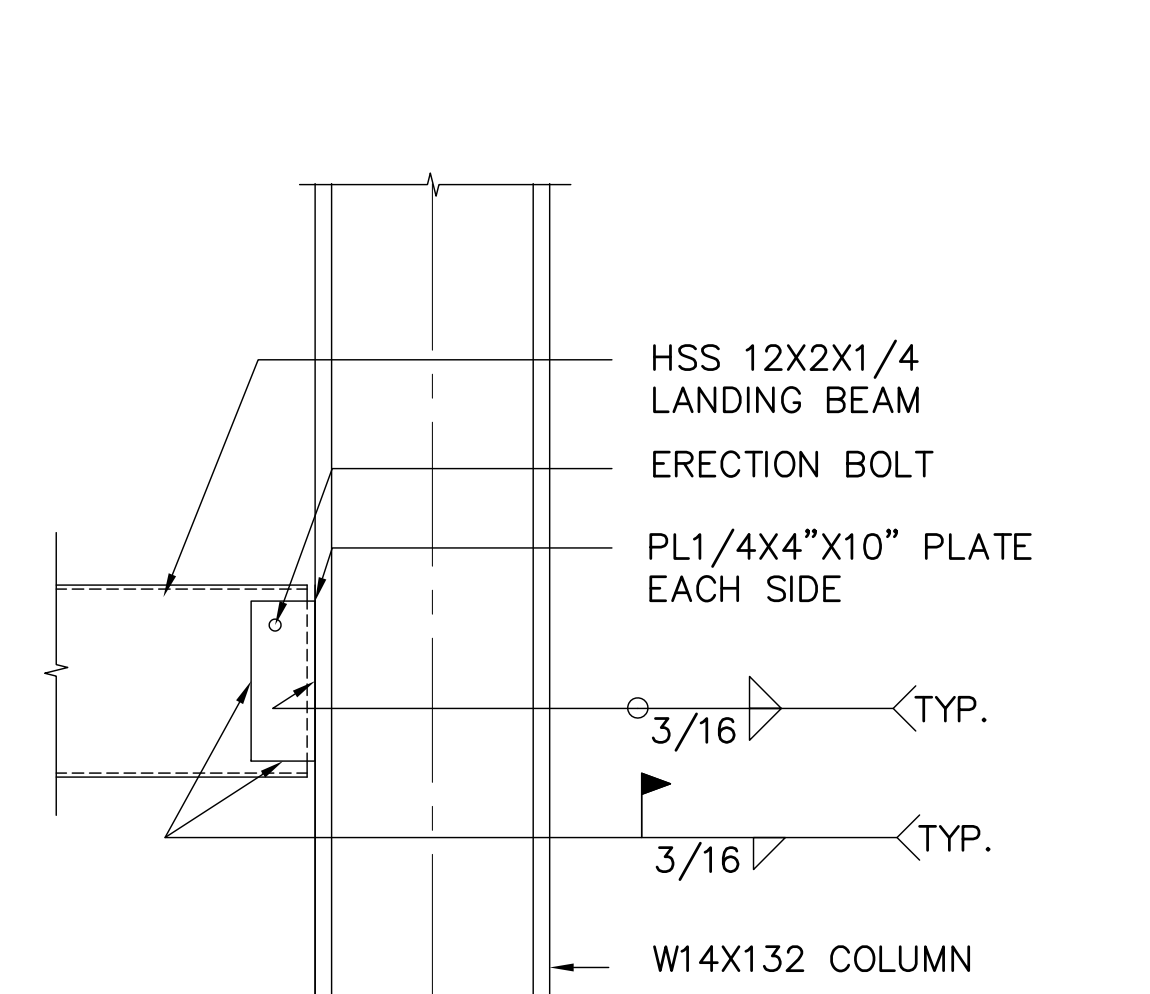
7 STAIR DETAIL
S7.4 1" = 1'-0"



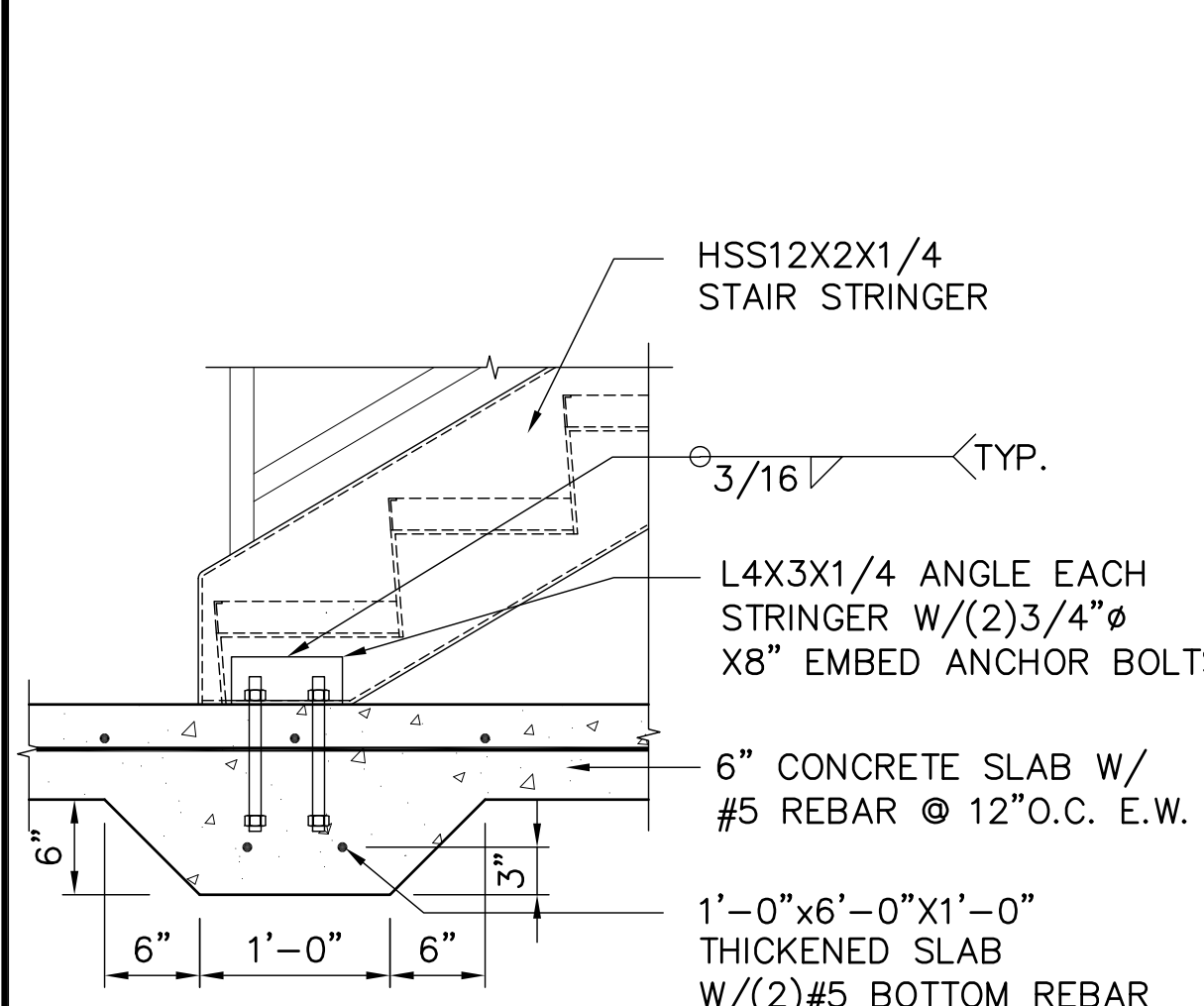
8 STAIR DETAIL
S7.4 1" = 1'-0"



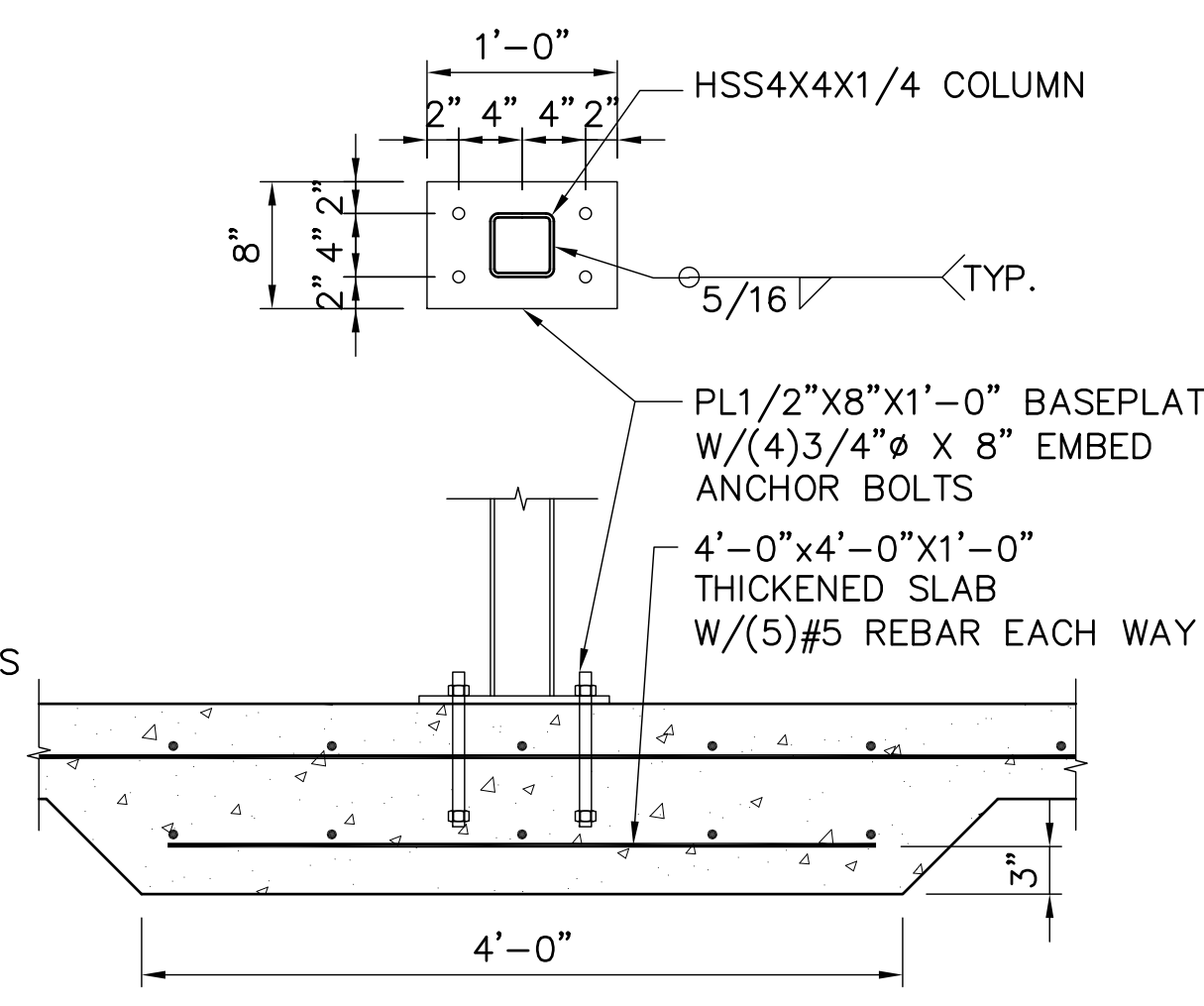
9 HSS BEAM TO HSS COL DETAIL
S7.4 1" = 1'-0"



10 HSS BEAM TO WF COLUMN DETAIL
S7.4 1" = 1'-0"



11 STAIR TREAD DETAIL - TYPICAL
S7.4 1" = 1'-0"



12 STAIR COLUMN/FOOTING DETAIL
S7.4 1" = 1'-0"

REV	DATE	DESCRIPTION	BY

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

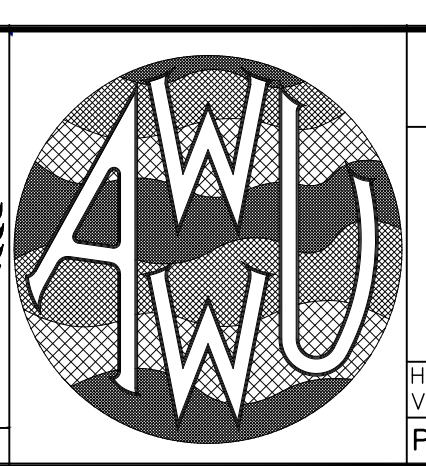
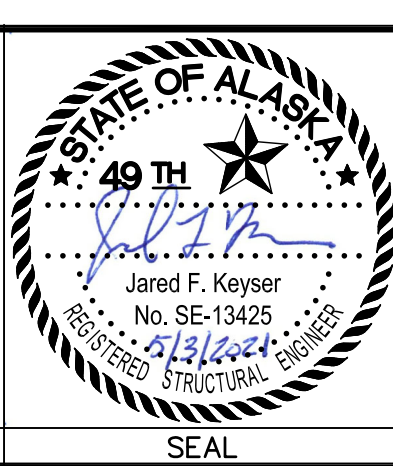
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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

STAIR FRAMING DETAILS

DWG S7.4

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

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PIPING LEGEND	LOGIC LEGEND	ABBREVIATIONS			
<p>--- COLD WATER</p> <p>---xxx--- SEE ABBREVIATIONS FOR MEDIA</p> <p>○ PIPE UP</p> <p>○ PIPE DOWN</p> <p>○ TEE UP</p> <p>○ TEE DOWN</p> <p>▶ DIRECTION OF FLOW</p> <p>○ BALL/ISOLATION VALVE</p> <p>⌞ CHECK VALVE</p> <p>△ OS&Y GATE VALVE</p> <p>○ PRESSURE GAUGE W/ ISOLATION COCK</p> <p>⊕ FLOOR DRAIN</p>	<p>⊕ POINT OF CONNECTION</p> <p>○ X ○ DETAIL NUMBER</p> <p>○ XX ○ SHEET LOCATION</p> <p>△ 1 SHEET NOTE</p>	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"> ABV ABOVE AC AIR COMPRESSOR AFF ABOVE FINISHED FLOOR AHJ AUTHORITY HAVING JURISDICTION ARCH ARCHITECTURAL CONT CONTINUATION CW COLD WATER EXIST EXISTING FD-X FLOOR DRAIN DESIGNATOR FP-X FIRE PUMP DESIGNATOR FDC FIRE DEPARTMENT CONNECTION FP FIRE PROTECTION FPD FIRE PROTECTION DRY FPW FIRE PROTECTION WET GPM GALLONS PER MINUTE HC HAZARD CATEGORY </td> <td style="width: 33%;"> HP HORSEPOWER JP-X JOCKEY PUMP DESIGNATOR MFR MANUFACTURER MIN MINIMUM N.C. NORMALLY CLOSED NFPA NATIONAL FIRE PROTECTION ASSOCIATION NTS NOT TO SCALE OD OVERFLOW DRAIN OH ORDINARY HAZARD PD PRESSURE DROP PSI POUND PER SQUARE INCH TYP TYPICAL W/ WITH WPD WATER PRESSURE DROP </td> <td style="width: 33%;"></td> </tr> </table>	ABV ABOVE AC AIR COMPRESSOR AFF ABOVE FINISHED FLOOR AHJ AUTHORITY HAVING JURISDICTION ARCH ARCHITECTURAL CONT CONTINUATION CW COLD WATER EXIST EXISTING FD-X FLOOR DRAIN DESIGNATOR FP-X FIRE PUMP DESIGNATOR FDC FIRE DEPARTMENT CONNECTION FP FIRE PROTECTION FPD FIRE PROTECTION DRY FPW FIRE PROTECTION WET GPM GALLONS PER MINUTE HC HAZARD CATEGORY	HP HORSEPOWER JP-X JOCKEY PUMP DESIGNATOR MFR MANUFACTURER MIN MINIMUM N.C. NORMALLY CLOSED NFPA NATIONAL FIRE PROTECTION ASSOCIATION NTS NOT TO SCALE OD OVERFLOW DRAIN OH ORDINARY HAZARD PD PRESSURE DROP PSI POUND PER SQUARE INCH TYP TYPICAL W/ WITH WPD WATER PRESSURE DROP	
ABV ABOVE AC AIR COMPRESSOR AFF ABOVE FINISHED FLOOR AHJ AUTHORITY HAVING JURISDICTION ARCH ARCHITECTURAL CONT CONTINUATION CW COLD WATER EXIST EXISTING FD-X FLOOR DRAIN DESIGNATOR FP-X FIRE PUMP DESIGNATOR FDC FIRE DEPARTMENT CONNECTION FP FIRE PROTECTION FPD FIRE PROTECTION DRY FPW FIRE PROTECTION WET GPM GALLONS PER MINUTE HC HAZARD CATEGORY	HP HORSEPOWER JP-X JOCKEY PUMP DESIGNATOR MFR MANUFACTURER MIN MINIMUM N.C. NORMALLY CLOSED NFPA NATIONAL FIRE PROTECTION ASSOCIATION NTS NOT TO SCALE OD OVERFLOW DRAIN OH ORDINARY HAZARD PD PRESSURE DROP PSI POUND PER SQUARE INCH TYP TYPICAL W/ WITH WPD WATER PRESSURE DROP				

FIRE PUMP SCHEDULE

SYMBOL	MANUFACTURER	MODEL	FUNCTION	PUMPED			MOTOR DATA			LISTING	REMARKS
				MEDIUM	GPM	PSI	HP	POWER			
FP-1	AC FIRE PUMP	1580 6x6x9.5F-L	FIRE PUMP	WATER	750	60	40	460V/3ø	NFPA, FM GLOBAL	TRIM PER DIV 21.	
JP-1	AC FIRE PUMP	1SV	JOCKEY PUMP	WATER	5	70	1 1/2	460V/3ø	NFPA, FM GLOBAL	TRIM PER DIV 21.	

VERIFY SCALE
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

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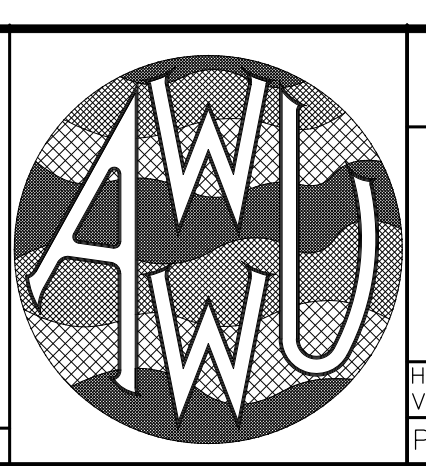
UMIAQ Design LLC
 6700 Arctic Spur Road
 Anchorage, AK 99518 (907) 677-8220
 PRIME CONSULTANT



RSA Mechanical and Electrical Consulting Engineers
 670 West Fireweed Lane, Suite 200
 Anchorage, AK 99503
 (907) 276-0521
 Corporate No.: AECC542
 RSA Job No.: L9266
 CONSULTANT



STATE OF ALASKA
 4 QTH
 ANDREW J. SCHIRACK
 ME-118794
 4/26/22
 REGISTERED PROFESSIONAL ENGINEER
 SEAL



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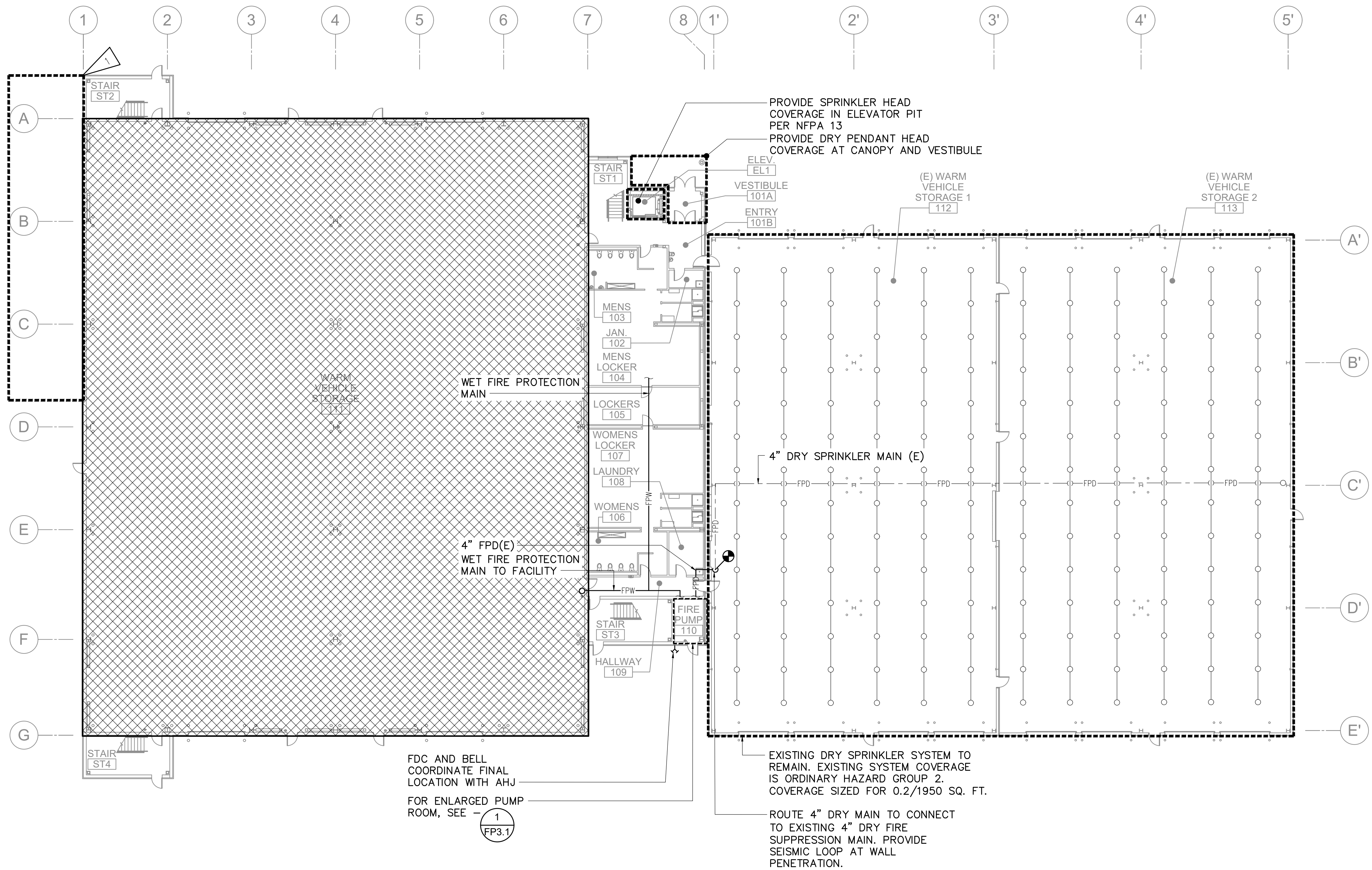
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

FIRE PROTECTION SCHEDULE AND LEGEND

DWG
FP0.1

HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

SHEET 180 of 288



GENERAL NOTES

- A. CONTRACTOR TO SUBMIT SHOP DRAWINGS, CALCULATIONS, PRODUCT DATA, QUALIFICATIONS AND ALL OTHER ITEMS REQUIRED UNDER SECTION 21 05 00 FOR APPROVAL BY ENGINEER, MOA FIRE MARSHAL, AND OWNERS INSURANCE UNDERWRITER.
- B. PROVIDE FIRE PROTECTION SPRINKLER SYSTEM THROUGHOUT THE ENTIRE FACILITY, ALL AREAS HAZARD CATEGORY 1 IN ACCORDANCE WITH FM GLOBAL UNLESS OTHERWISE NOTED.
- C. SPRINKLER MAIN ROUTING SHOWN IS APPROXIMATE FOR CONTRACTOR REFERENCE. CONTRACTOR TO PROVIDE COORDINATED SHOP DRAWINGS FOR PIPING ROUTING IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- D. UTILIZE DRY PENDANT HEADS FOR SPRINKLER PROTECTION IN THE ENTRYWAY VESTIBULES.

SHEET NOTES

- 1 SIZE SPRINKLER MAIN PIPING FOR FUTURE 10,000 FT² ADDITION IN THIS CORNER OF FACILITY. HAZARD CATEGORY 3 WILL BE EXTENDED ON THE LOWER AREA.

LEGEND

HAZARD CATEGORY 3

1 FIRST FLOOR – FIRE PROTECTION PLAN
FP2.1 1/16" = 1'-0"

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
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 CONTRACTOR: _____
 DATE: _____ TITLE: _____
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2. DATA TRANSFERRED BY: _____
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RSA
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 (907) 276-0521
 Corporate No.: AECC542
 RSA Job No.: L9266
 CONSULTANT

STATE OF ALASKA
 4 QTH
 ANDREW J. SCHIRACK
 ME-119794
 4/26/24
 REGISTERED PROFESSIONAL ENGINEER
 SEAL

AWWU

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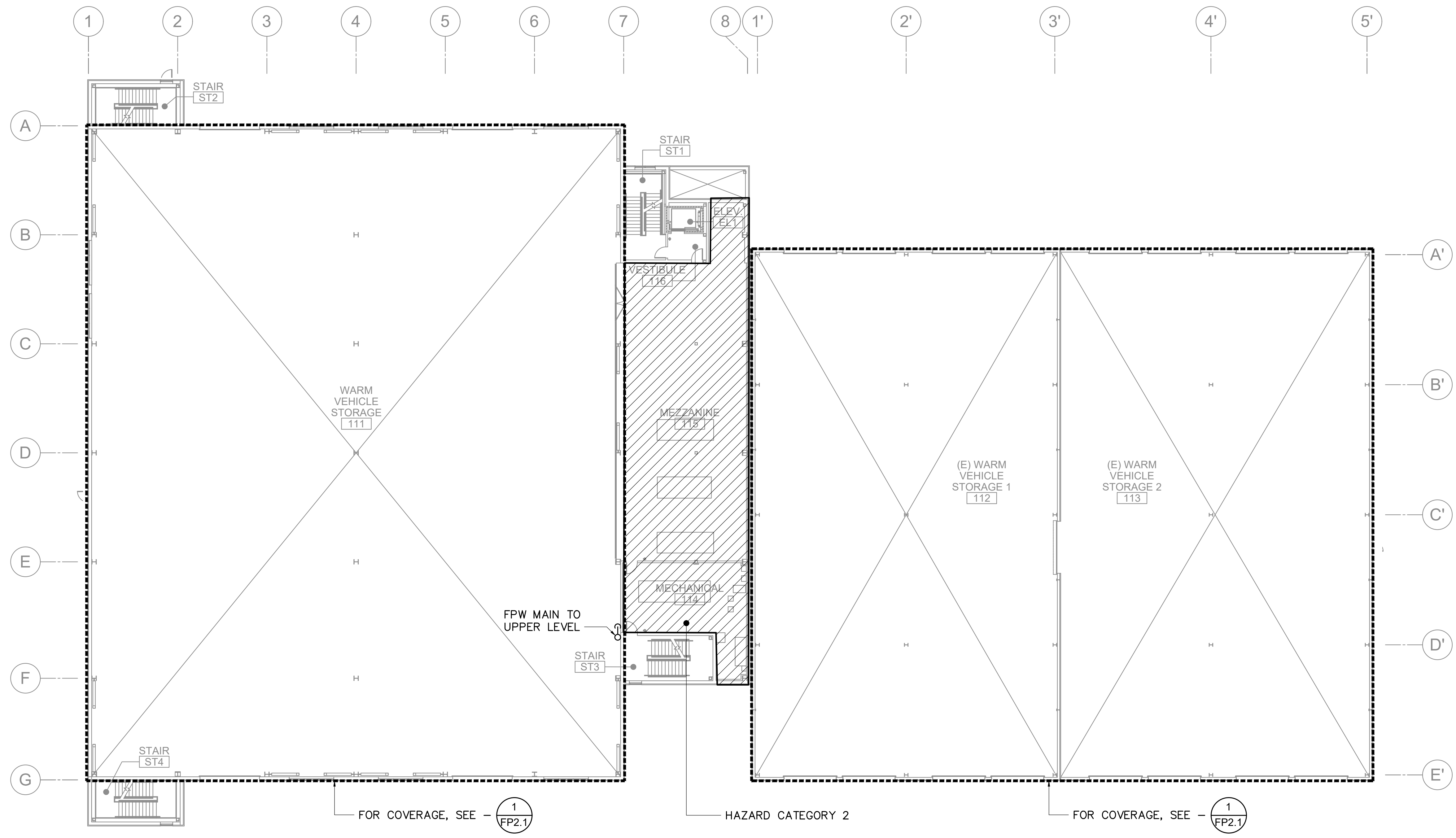
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

**FIRST FLOOR
 FIRE PROTECTION PLAN**

DWG
FP2.1

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

SHEET 182 of 288



GENERAL NOTES

- A. CONTRACTOR TO SUBMIT SHOP DRAWINGS, CALCULATIONS, PRODUCT DATA, QUALIFICATIONS AND ALL OTHER ITEMS REQUIRED UNDER SECTION 21 05 00 FOR APPROVAL BY ENGINEER, MOA FIRE MARSHAL, AND OWNERS INSURANCE UNDERWRITER.
- B. PROVIDE FIRE PROTECTION SPRINKLER SYSTEM THROUGHOUT THE ENTIRE FACILITY, ALL AREAS HAZARD CATEGORY 1 IN ACCORDANCE WITH FM GLOBAL UNLESS OTHERWISE NOTED.
- C. SPRINKLER MAIN ROUTING SHOWN IS APPROXIMATE FOR CONTRACTOR REFERENCE. CONTRACTOR TO PROVIDE COORDINATED SHOP DRAWINGS FOR PIPING ROUTING IN ACCORDANCE WITH CONTRACT DOCUMENTS.

LEGEND



1 MAZZANINE – FIRE PROTECTION PLAN
FP2.2 1/16" = 1'-0"

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
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 CONTRACTOR: _____
 DATE: _____ TITLE: _____
 BY: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
 DATA TRANSFER CHECKED BY: _____
 DATE: _____ TITLE: _____
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Corporate No.: AECC542
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CONSULTANT

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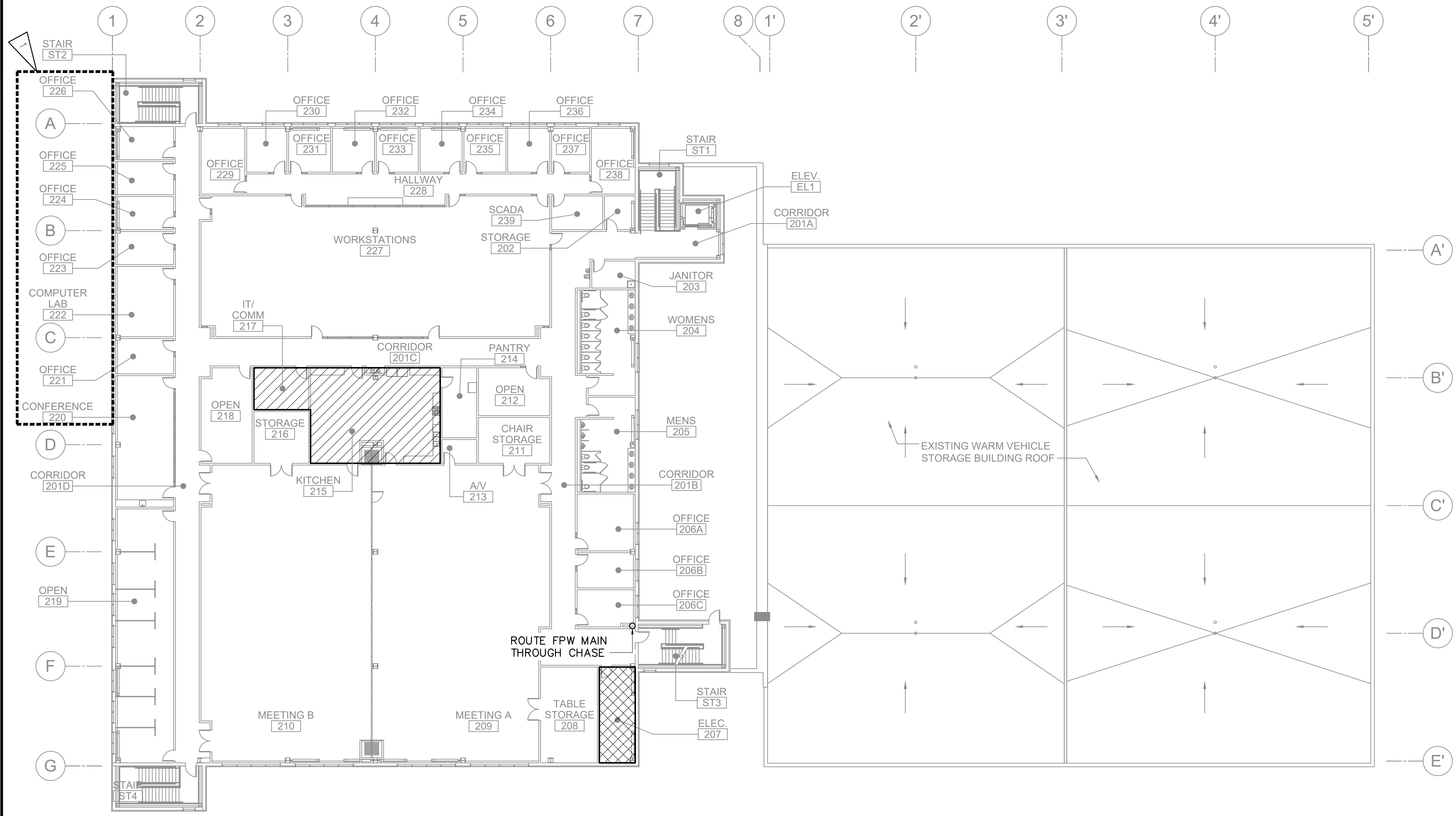
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

**MEZZANINE
FIRE PROTECTION PLAN**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG
FP2.2

SHEET 183 of 288



GENERAL NOTES

- A. PROVIDE FIRE PROTECTION SPRINKLER SYSTEM THROUGHOUT THE ENTIRE FACILITY, ALL AREAS HAZARD CATEGORY 1 IN ACCORDANCE WITH FM GLOBAL UNLESS OTHERWISE NOTED.
- B. SPRINKLER MAIN ROUTING SHOWN IS APPROXIMATE FOR CONTRACTOR REFERENCE. CONTRACTOR TO PROVIDE COORDINATED SHOP DRAWINGS FOR PIPING ROUTING IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- C. COORDINATE CEILING HEIGHTS AND SOFFIT LOCATIONS WITH ARCHITECTURAL PLANS.

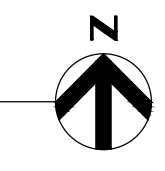
SHEET NOTES

- 1 SIZE SPRINKLER MAIN PIPING FOR FUTURE 10,000 FT² ADDITION IN THIS CORNER OF FACILITY. COVERAGE SHALL BE HAZARD CATEGORY 1.

LEGEND

- HAZARD CATEGORY 2
- HAZARD CATEGORY 3

1 SECOND FLOOR – FIRE PROTECTION PLAN
FP2.3 1/16" = 1'-0"



VERIFY SCALE			
REV	DATE	DESCRIPTION	BY

RECORD DRAWING		REUSE OF DOCUMENTS
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Mechanical and Electrical Consulting Engineers
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 RSA Job No.: L9266

ANDREW J. SCHIRACK
 ME-119794
 4/26/24
 REGISTERED PROFESSIONAL ENGINEER

MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		DWG FP2.3
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT		
SECOND FLOOR FIRE PROTECTION PLAN		
HORIZ SCALE: N/A VERT SCALE: N/A	DATE: APRIL 2021	GRID: SW 2431 SHEET 184 of 288

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	MANUFACTURER	MODEL	CW	HW/TW	WASTE	VENT	TRAP	COLOR/FINISH	ELECTRICAL	TRIM/REMARKS
P-1A	WATER CLOSET - ADA	AMERICAN STANDARD	AFWALL - 2257.103	1	---	4	2	---	WHITE	NO	PROVIDE W/WALL CARRIER, ELONGATED SEAT, AND ZURN MODEL ZER6000-CPM BATTERY POWERED FLUSH VALVE FOR 1.28 GPF CONFIGURATION. MOUNT AT ADA HEIGHT.
P-1	WATER CLOSET	AMERICAN STANDARD	AFWALL - 2257.103	1	---	4	2	---	WHITE	NO	PROVIDE W/WALL CARRIER, ELONGATED SEAT, AND ZURN MODEL ZER6000-CPM BATTERY POWERED FLUSH VALVE FOR 1.28 GPF CONFIGURATION.
P-2	URINAL	AMERICAN STANDARD	TRIMBROOK - 6561.017	1	---	2	1-1/2	---	WHITE	NO	PROVIDE W/WALL CARRIER AND ZURN MODEL ZER6001-CPM BATTERY POWERED FLUSH VALVE FOR 1 GPF URINAL OPERATION.
P-2A	URINAL	AMERICAN STANDARD	TRIMBROOK - 6561.017	1	---	2	1-1/2	---	WHITE	NO	PROVIDE W/WALL CARRIER AND ZURN MODEL ZER6001-CPM BATTERY POWERED FLUSH VALVE FOR 1 GPF URINAL OPERATION. MOUNT AT ADA HEIGHT.
P-3A	LAVATORY - COUNTER	PER ARCH	PER ARCH	1/2	1/2	1-1/4	1-1/4	1-1/4	WHITE	NO	MOLDED COUNTERTOP/BOWLS PROVIDED BY ARCHITECT. COORDINATE WITH OTHER TRADES FOR FAUCET TAPPINGS. PROVIDE W/ WALL CARRIER. INSTALL TV-1 BELOW LAVATORY. PROVIDE GRID STRAINER, BATTERY OPERATED ZURN Z6956-XL WITH 0.5 GPM AERATOR, AND ADA TRAP OFFSET.
P-3B	LAVATORY - WALL MOUNT	ELKAY	EWMA-9620SACMC	1/2	1/2	1-1/2	1-1/2	1-1/2	STAINLESS	YES	ADA COMPLIANT. PROVIDE W/ WALL CARRIER AND FOUR ASSE 1070 ELKAY LK723 THERMOSTATIC MIXING VALVES. PRODUCT INCLUDES FOUR LKB722C SENSOR FAUCETS WITH 120V/1ϕ AC PLUG AND CORD / 16 AA BATTERIES, AND LK18B GRID DRAIN. MOUNT AT ADA HEIGHT.
P-4	DRINKING FOUNTAIN - DUAL	ELKAY	EZWS-EDFP217K	1/2	1/2	1 1/2	1 1/2	1 1/2	STAINLESS	YES	HI-LOW, ADA COMPLIANT BARRIER FREE DRINKING FOUNTAIN WITH VANDAL RESISTANT BOTTLE FILLING STATION, PROVIDE WITH WALL MOUNTING SUPPORT AND WIRED 120V/1ϕ, SEE ELECTRICAL.
P-5	SINK - CONFERENCE	JUST	US-1821-A	1/2	1/2	1-1/2	1-1/2	1-1/2	STAINLESS	YES	PROVIDE W/DELTA FAUCET MODEL 27C1933 W/ SPRAY, SNAP-N-LOC BASKET STRAINER, & ADA OFFSET FOR TRAP. PROVIDE WITH INSINKERATOR BADGER 5 GARBAGE DISPOSAL (1/2 HP, 120V/1ϕ PLUG CONNECTION), AND PNEUMATIC PUSH BUTTON SWITCH FOR OPERATION.
P-6	SINK - JANITOR	FIAT	MSBIDTG2424	1/2	1/2	3	2	3	WHITE	NO	PROVIDE WITH OPTIONAL 830AA FAUCET, 832AA HOSE AND BRACKET, 889CC MOP HANGER, AND 3" QUICK DRAIN CONNECTOR.
P-7	3 COMPARTMENT SINK	JUST	TLX-2249-16-GR	(2)1/2	(2)1/2	(2) 2	(2) 1-1/2	(2) 1-1/2	STAINLESS	YES	PROVIDE WITH (2) MOEN MODEL 5923 FAUCETS, (3) REMOVABLE BASKET STRAINERS, INSINKERATOR BADGER 5 GARBAGE DISPOSAL (1/2 HP, 120V, PLUG CONNECTION) WITH OPTIONAL PUSH BUTTON (COORDINATE WITH SINK PROVIDER FOR ADDITIONAL TAPPING AS NECESSARY), AND INSINKERATOR H-WAVEC-SS (750W, 120V, PLUG AND CORD) WITH CHROME FINISH AND NECESSARY SINK TAPPING. PROVIDE AIR GAP FITTING AND DUAL ANGLE STOP FOR DISHWASHER CONNECTION.
P-8	HAND WASH SINK	JUST	A-544-912-S	1/2	1/2	1 1/2	1 1/4	1 1/2	STAINLESS	NO	PROVIDE WITH BATTERY POWERED JSL SENSOR FAUCET, FLAT GRID STRAINER, AND P AIR GAP FITTING ON TRAP FOR AC-1 CONDENSATE. INSTALL TV-1 BELOW SINK
P-9	SHOWER	EVERFAB	S3839A	1/2	1/2	1 1/2	1 1/2	1 1/2	WHITE	NO	DELTA MODEL T13H332 SHOWER VALVE WITH DIVERTER VALVE, FIXED HEAD, AND HANDHELD HEAD. PROVIDE NON REMOVABLE GRID STRAINER DRAIN.
P-9A	SHOWER - ADA	EVERFAB	S3839A	1/2	1/2	2 1/2	2 1/2	2 1/2	WHITE	NO	PROVIDE WITH FOLDING ADA SEAT AND ADA COMPLIANT GRAB BARS. DELTA MODEL T13H332 SHOWER VALVE WITH DIVERTER VALVE, FIXED HEAD, AND HANDHELD HEAD. PROVIDE NON REMOVABLE GRID STRAINER DRAIN.
P-10	REFRIGERATOR BOX	IPS	AB9700HA	1/2	---	---	---	---	---	NO	ICE BOX MAKER WITH 1/2" SWEAT CONNECTION, WATER HAMMER ARRESTOR, AND QUARTER TURN BALL VALVE. COORDINATE WITH ARCHITECTURAL PLANS FOR ELEVATION AND LOCATION.
P-11	COFFEE MACHINE	IPS	AB9700HA	1/2	---	---	---	---	---	NO	1/2" SWEAT CONNECTION, WATER HAMMER ARRESTOR, AND QUARTER TURN BALL VALVE. COORDINATE WITH ARCHITECTURAL PLANS FOR ELEVATION AND LOCATION. PROVIDE WATTS SD-2 BACKFLOW PREVENTER.
P-12	ICE MACHINE	IPS	FRAD12	1/2	---	2	1-1/2	2"	---	NO	1/2" SWEAT CONNECTION, 3/8" OUTLET, WATER HAMMER ARRESTOR, AND QUARTER TURN BALL VALVE. COORDINATE WITH ARCHITECTURAL PLANS FOR ELEVATION AND LOCATION. PROVIDE WITH WATTS LF9D.
HB-1	INTERIOR HOSE BIBB	DELTA	28C2384	1/2	1/2	---	---	---	STAINLESS	NO	HEAVY DUTY WALL MOUNT SERVICE FAUCET WITH TOP BRACE AND HOSE THREAD OUTLET. PROVIDE WITH SPILL PROOF VACUUM BREAKERS ON ONLY HOT PIPING.
HB-2	EXTERIOR HOSE BIBB	ZURN	Z1320	3/4	---	---	---	---	STAINLESS	NO	FREEZE PROOF HOSE BIBB WITH INTEGRAL BACKFLOW PREVENTER, 1/2 TURN VALVE, AND RECESSED STAINLESS STEEL WALL BOX. PROVIDE WALL THICKNESS AS NECESSARY.
FD-1	FLOOR DRAIN	ZURN	Z415-C D2" X D5"	---	---	2	1-1/2	2	STAINLESS	NO	PROVIDE WITH OPTIONAL TRAP PRIMER.
FD-2	FLOOR DRAIN	ZURN	EZ-PV2	---	---	2	1-1/2	2	---	NO	PLASTIC DRAIN WITH PLASTIC GRATE TO RECEIVE CONDENSATE. PROVIDE WITH OPTIONAL TRAP PRIMER.
FD-3	FLOOR DRAIN	ZURN	Z521	---	---	6	4	6	BRONZE	NO	DURA COATED CAST IRON BODY WITH TRAP PRIMER PLUG. PROVIDE WITH 6" OUTLET, POLISHED BRONZE TOP, AND ADJUSTABLE EXTENSION FRAME.
TP-1	TRAP PRIMER	PPP INC	PR-500	1/2	---	---	---	---	---	---	PROVIDE 12X12 ACCESS DOOR AND ISOLATION VALVE PER DETAIL. PROVIDE DISTRIBUTION AS REQUIRED TO SERVE FLOOR DRAINS INDICATED.
TP-2	TRAP PRIMER	PPP INC	MP-500	1/2	---	---	---	---	---	YES	120V, 12"X12" BOX WITH SCREW ON GRAY ACCESS DOOR. PROVIDE WITH ISOLATION VALVE.
TD-1	TRENCH DRAIN	JAY R SMITH	9878	---	---	4	---	---	DUCTILE IRON	NO	PROVIDE WITH DUCTILE IRON CLASS F GRATE AND GRATE REMOVAL TOOL. PROVIDE CATCH BASIN WITH SIDE OUTLET AND CLASS F GRATE.
RD-1	ROOF DRAIN - PRIMARY	ZURN	Z-100-3	---	---	3	---	---	---	NO	15" DURA COATED DUCTILE IRON BODY WITH POLY DOME, NO HUB OUTLET AND MEMBRANE CLAMP.
OD-1	ROOF DRAIN - OVERFLOW	ZURN	Z-100-3	---	---	3	---	---	---	NO	15" DURA COATED DUCTILE IRON BODY WITH POLY DOME, NO HUB OUTLET AND MEMBRANE CLAMP. 2" DEBRIS DAM.
OVS-1	OIL WATER SEPARATOR	STRIEM	OS-100	---	---	4	3	---	---	NO	100 GPM MAX FLOW RATE. OIL CAPACITY: 144 GAL, SAND CAPACITY: 95 GAL. PROVIDE WITH OPTIONAL LR24 (4) RISER AS NECESSARY TO INSTALL INTERCEPTOR BELOW GRADE.
WB-1	WASHER BOX	GUY GREY	MBS1205HA	1/2	1/2	2	1-1/2	2	---	NO	QUARTER TURN ARRESTOR VALVES AND WATER HAMMER ARRESTORS.
ES-1	EMERGENCY SHOWER	HAWS CO	8355WCW	---	1	---	---	---	STAINLESS	NO	RECESSED WALL MOUNTED EMERGENCY SHOWER. PROVIDE PIPING AS NECESSARY TO COMPLETE INSTALLATION. TRIM PER SPECIFICATION.

TEMPERING VALVE SCHEDULE

SYMBOL	BASIS OF DESIGN	MODEL	SERVICE	MEDIUM	MIN FLOW	FLOW @ 20 PSI	MATERIAL	LISTING	REMARKS
TV-1	WATTS	LFUSG-B	FOR FIXTURE SEE SCHEDULE	WATER	0.25	2.25	BRONZE	ASSE 1070	3/8" INLET/OUTLET, UNDER COUNTER THERMOSTATIC VALVE. SET DISCHARGE TEMPERATURE TO 110 DEG F. MOUNT TO WALL BELOW FIXTURE.
TV-2	POWERS	LFMM433	DOMESTIC HOT WATER	WATER	5	74	BRONZE	ASSE 1016	1-1/4" INLETS/OUTLET, PROVIDE WITH OPTIONAL TEMPERATURE/PRESSURE GAUGES ON INLETS. SET DISCHARGE TO 120 DEG F.
TV-3	POWERS	LFMM433	EMERGENCY SHOWERS	WATER	5	74	BRONZE	ASSE 1016	1-1/4" INLETS/OUTLET, PROVIDE WITH OPTIONAL TEMPERATURE/PRESSURE GAUGES ON INLETS. SET DISCHARGE TO 75 DEG F.

EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER	MODEL	FUNCTION	MEDIUM	MATERIAL	TANK VOLUME			LABEL	REMARKS
						TOTAL (GAL)	ACCEPTANCE (GAL)	DIMENSIONS		
ET-1	AMTROL	AX-200-L	BUILDING HEATING SYSTEM	WATER	STEEL/BUTYL	53	53	24" DIA X 38" H	ASME	PRECHARGE TO 20 PSI
ET-2	AMTROL	ST-30VC-DD	DOMESTIC HOT WATER	WATER	STEEL/BUTYL	16.5	11.25	15" DIA X 25" H	IAPMO	PRECHARGE TO INCOMING CITY WATER PRESSURE
ET-3	AMTROL	AX-20V-DD	HEATING COILS	50% PG	STEEL/BUTYL	16.5	11.3	15" DIA X 25" H	ASME	PRECHARGE TO 12 PSI

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY
1	6/8/2021	MOA PLAN REVIEW	CJT
REVISIONS			

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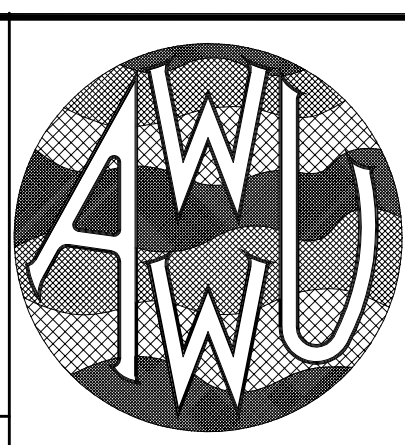
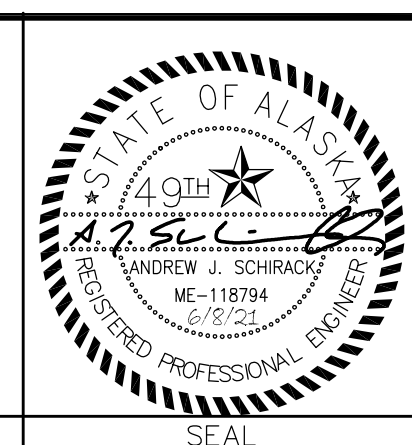
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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

MECHANICAL SCHEDULES

DWG **MO.2**

HORIZ SCALE: N/A
VERT SCALE: N/A
DATE: APRIL 2021 GRID: SW 2431
PROJ. ID.: WW.H7775

SHEET 188 of 288

BOILER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	HEATED MEDIUM	FUEL	GROSS INPUT MBH	GROSS OUTPUT MBH	WEIGHT LBS	ELECATRICAL MCA	VOLTAGE/HERTZ/PHASE	LABEL	REMARKS
B-1,2	LOCHINVAR	FBN2001	WATER	NG	1,999	1923	2570	16	120/60/1	ASME H	PROVIDE W/ PH NEUTRALIZER FOR CONDENSATE DRAIN. LOW WATER CUT-OFF, 50 PSI RELIEF VALVE, REDUNDANT HIGH LIMIT, BOILER CONTROLS FOR O/A RESET, BOILER CASCADING, FLOW PROOF SWITCH, OSAT SENSOR, SYSTEM TEMPERATURE SENSOR, BACNET IP GATEWAY FOR DDC SYSTEM INTEGRATION.

AIR SEPARATOR SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SIZE	CONNECTION	MATERIAL	FLUID	REMARKS
AS-1	SPIROTHERM	VDN 200	2"	FLANGED	STEEL	50% P.G.	COMBINATION AIR AND DIRT SEPARATOR, 1 FT PRESSURE DROP, 28 GPM, REMOVABLE HEAD FOR CLEANING.

HYDRAULIC SEPARATOR SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SIZE	CONNECTION	MATERIAL	FLUID	REMARKS
HS-1	SPIROTHERM	VXN600	6"	FLANGED	STEEL	WATER	COMBINATION AIR AND DIRT SEPARATOR, 1 FT PRESSURE DROP, 240 GPM, REMOVABLE HEAD FOR CLEANING.

GLYCOL MIX TANK SCHEDULE

SYMBOL	MFGR/MODEL	FUNCTION	MEDIUM	MATERIAL	TANK CAPACITY	DIMENSIONS	MOTOR DATA		REMARKS
							AMPS/VOLTS/PH		
GT-1	AXIOM / MF200	GLYCOL FILL	50% P.G.	EDPM	17 GAL	12"x12"x36"	10.7A/115V/1Ø		FULLY PACKAGED GLYCOL CHARGING SYSTEM WITH CORD AND PLUG CONNECTION.

UNIT HEATER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	AREA SERVED	*CAPACITY MBH	MEDIUM	GPM	DEG F	EWT	LWT	WPD	CFM	POWER (HP)	ELECTRICAL	CONNECTION SIZE	REMARKS
UH-1	SIGMA	015H	FIRE PUMP 110	7.4	WATER	1.0	145	125	0.44	400	1/20	120/1Ø	3/4"		HORIZONTAL DISCHARGE UNIT HEATER. SIDE CONNECTIONS.
UH-2	SIGMA	025H	ELECTRICAL 207	12.5	WATER	1.5	145	125	0.26	590	1/20	120/1Ø	3/4"		HORIZONTAL DISCHARGE UNIT HEATER. SIDE CONNECTIONS.
UH-3	SIGMA	040H	STORAGE 208	20.0	WATER	2.5	145	125	0.97	840	1/8	120/1Ø	3/4"		HORIZONTAL DISCHARGE UNIT HEATER. SIDE CONNECTIONS.
UH-4	SIGMA	050V	MECHANICAL 114	21.7	WATER	2.5	145	125	0.06	1,040	1/8	120/1Ø	3/4"		VERTICAL DISCHARGE UNIT HEATER.
UH-5	SIGMA	210V	MEZZANINE 115	96.8	WATER	9.0	145	125	0.69	4,590	1/2	120/1Ø	1-1/4"		VERTICAL DISCHARGE UNIT HEATER.
UH-6	SIGMA	210V	MEZZANINE 115	96.8	WATER	9.0	145	125	0.69	4,590	1/2	120/1Ø	1-1/4"		VERTICAL DISCHARGE UNIT HEATER.
UH-7	SIGMA	015H	MEZZANINE 115	7.4	WATER	1.0	145	125	.44	400	1/20	120/1Ø	3/4"		HORIZONTAL DISCHARGE UNIT HEATER. SIDE CONNECTIONS.
CUH-1	SIGMA	SFF-A-10	STAIR ST-3 LOWER	52.0	WATER	5.5	145	125	1.34	1,000	1/6	120/1Ø	1"		3-ROW, CONFIGURE FOR FULLY EXPOSED WALL MOUNTING. INVERTED FLOW, FRONT BOTTOM OUTLET, FRONT TOP INLET.
CUH-2	SIGMA	SFF-A-08	STAIR ST-1 LOWER	38.3	WATER	4.0	145	125	0.52	800	1/10	120/1Ø	1"		3-ROW, CONFIGURE FOR FULLY EXPOSED WALL MOUNTING. INVERTED FLOW, FRONT BOTTOM OUTLET, FRONT TOP INLET.
CUH-3	SIGMA	SFF-A-08	VESTIBULE 101A	42.3	WATER	3.5	145	125	0.66	800	1/10	120/1Ø	1"		3-ROW, CONFIGURE FOR FULLY RECESSED FLUSH CEILING MOUNTING. FRONT OUTLET, FRONT INLET.
CUH-4	SIGMA	SFF-A-10	STAIR ST-2 LOWER	44.5	WATER	5.0	145	125	0.67	1,000	1/6	120/1Ø	1"		2-ROW, CONFIGURE FOR FULLY RECESSED FLUSH WALL MOUNTING. INVERTED FLOW, FRONT BOTTOM OUTLET, FRONT TOP INLET.
CUH-5	SIGMA	SFF-A-10	STAIR ST-4 LOWER	44.5	WATER	5.0	145	125	0.70	1,000	1/6	120/1Ø	1"		2-ROW, CONFIGURE FOR FULLY EXPOSED WALL MOUNTING. INVERTED FLOW, FRONT BOTTOM OUTLET, FRONT TOP INLET.
CUH-6	SIGMA	SFF-A-03	STAIR ST-3 UPPER	21.0	WATER	2.5	145	125	0.48	300	1/10	120/1Ø	3/4"		3-ROW, CONFIGURE FOR FULLY EXPOSED WALL MOUNTING. INVERTED FLOW, FRONT BOTTOM OUTLET, FRONT TOP INLET.
CUH-7	SIGMA	SFF-A-03	ELEV. EL1	17.6	WATER	2.0	145	125	0.72	300	1/10	120/1Ø	3/4"		2-ROW, CONFIGURE FOR FULLY EXPOSED WALL MOUNTING. INVERTED FLOW, FRONT BOTTOM OUTLET, FRONT TOP INLET.
CUH-8	SIGMA	SFF-A-03	STAIR ST-2 UPPER	21.0	WATER	2.5	145	125	0.48	300	1/10	120/1Ø	3/4"		3-ROW, CONFIGURE FOR FULLY RECESSED FLUSH WALL MOUNTING. INVERTED FLOW, FRONT BOTTOM OUTLET, FRONT TOP INLET.
CUH-9	SIGMA	SFF-A-03	STAIR ST-4 UPPER	21.0	WATER	2.5	145	125	0.48	300	1/10	120/1Ø	3/4"		3-ROW, CONFIGURE FOR FULLY RECESSED FLUSH WALL MOUNTING. INVERTED FLOW, FRONT BOTTOM OUTLET, FRONT TOP INLET.

*PERFORMANCE ADJUSTED FOR TEMPERATURE

FINTUBE SCHEDULE

SYMBOL	MANUFACTURER	MODEL	# ROWS	ELEMENT	ENCLOSURE			GPM	MEDIUM	EWT DEG F	LWT DEG F	EAT DEG F	BTU/LF	REMARKS
					FPF	THICKNESS	HEIGHT							
FT-1	SIGMA	SWE-T-44C075	2	4"x4", 3/4" COPPER TUBE	48	16 GAUGE	24"	PER ARCH	WATER	145	125	65	1,006	TWO ROW, SQUARE TOP OUTLET, MOUNT @ 4" AFF.
FT-2	RITTLING	PBG10	2	3-1/4"x3-1/4", 3/4" COPPER TUBE	48	14 GAUGE	6"	PER ARCH	WATER	145	125	68	630	TWO ROW, PEDESTAL MOUNTED @ 4" AFF.

RADIANT CEILING PANEL SCHEDULE

SYMBOL	MANUFACTURER	MODEL	PANEL SIZE	CAPACITY BTUH/FT	MEDIUM	GPM	EWT DEG F	LWT DEG F	WPD FT HD	REMARKS
RP-1	SIGMA	SLC	24" WIDE, *LENGTH PER PLANS	244	WATER	PER PLANS	145	125	<5	24" PANEL WITH 8 TUBE PASSES. PROVIDE WITH EXTRUDED T-FRAMES FOR GYP BOARD CEILING APPLICATION, COLOR PER ARCHITECTURAL, PROVIDE WITH 18" BLANK SECTION FOR VALVE ACCESS. PERFORMANCE ADJUSTED FOR FLUID TEMPERATURE.

REV	DATE	DESCRIPTION	BY

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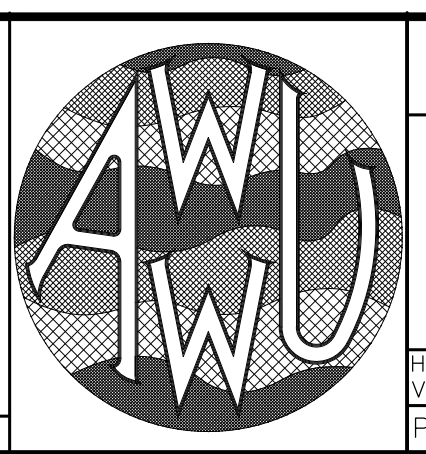
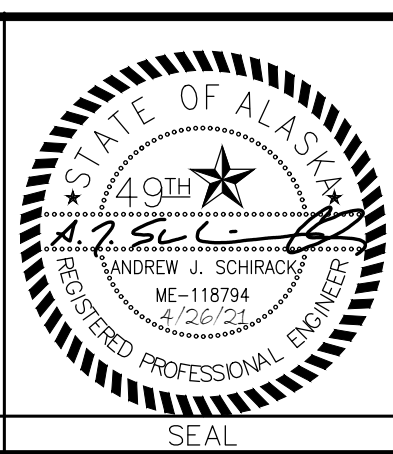
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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

MECHANICAL SCHEDULES

DWG **M0.3**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

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WATER HEATER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	STORAGE CAPACITY (GAL)	RECOVERY @ 100 DEG F RISE	FUEL TYPE	INPUT MBH	MOTOR DATA MCA	ELECTRICAL 120V/1Ø	LABEL ASME H	REMARKS
WH-1,2	AO SMITH	CYCLONE MXI BTH-300	119	349	NG	300	15A	120V/1Ø	ASME H	PROVIDE WITH PRESSURE/TEMPERATURE RELIEF VALVE, SEISMIC RESTRAINT, AND CONDENSATE NEUTRALIZER.

PUMP SCHEDULE

SYMBOL	MANUFACTURER	MODEL	FUNCTION	PUMPED MEDIUM	GPM MIN	MAX	HEAD FEET	MOTOR DATA POWER	ELECTRICAL	REMARKS
BCP-1,2	GRUNDFOS	MAGNA3 65-150F	BOILER CIRCULATION	WATER	29	96	30	834W	208V/1Ø	SPEED CONTROL THROUGH BOILER TO MAINTAIN 40F TEMPERATURE DIFFERENCE. PROVIDE WITH BMS INTERFACE FOR MONITORING.
CP-1A, 1B	GRUNDFOS	CRE 45-1-1	HEATING CIRCULATION PUMP	WATER	72	240	65	7.5 HP	460V/3Ø	VERTICAL, CENTRIFUGAL PUMP WITH INTEGRAL VFD. PROVIDE WITH BMS INTERFACE.
CP-2A, 2B	GRUNDFOS	MAGNA3 40-180F	HEATING COIL SYSTEM	50% PG	6.3	22	42	606W	120V/1Ø	VARIABLE SPEED PUMP WITH INTEGRAL VFD. PROVIDE WITH BMS INTERFACE.
CP-3	GRUNDFOS	MAGNA3 32-120F	SNOWMELT	50% PG	2	6.7	35	187W	120V/1Ø	VARIABLE SPEED PUMP WITH INTEGRAL VFD. PROVIDE WITH DDC INTERFACE MODULE.
PCP-1	GRUNDFOS	UPS 26-99SF	DOMESTIC HOT WATER CIRCULATION	WATER	--	8.5	19	197W	120V/1Ø	STAINLESS STEEL FITTED PUMP FOR USE IN DOMESTIC WATER SYSTEMS. SET TO SPEED 2: BALANCER TO ADJUST SPEED AS NECESSARY.
SP-1	ZOELLER	MODEL 153	ELEVATOR SUMP PUMP	WATER	--	22	35	10.5 AMPS	120V/1Ø	PROVIDE WITH OIL SMART PUMP SWITCH KIT TO INCLUDE LIQUID LEVEL ALARM WITH STROBES. LOCATE REMOTE ALARM PER PLANS.

HRV HEATING COIL SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SIZE	CFM	AIR P.D. IN. W.C.	FACE VEL. FFM	EAT DEG F	LAT DEG F	GPM	MEDIUM	EGT DEG F	LGT DEG F	WPD FT HD	REMARKS
PHC-1	VTS	---	---	2,130	0.11	339	-15	30	13.5	50% PG	140	115	2.7	PREHEAT COIL PROVIDED WITH HRV-1. PERFORMANCE ADJUSTED FOR GLYCOL.
HC-1	VTS	---	---	2,130	0.11	374	60	85	7.5	50% PG	140	115	1.0	HEATING COIL PROVIDED WITH HRV-1. PERFORMANCE ADJUSTED FOR GLYCOL.

HEAT EXCHANGER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TYPE	FUNCTION	HOT SIDE					COLD SIDE					REMARKS
					MEDIUM	FLOW (GPM)	WPD (FT HD)	EWT DEG F	LWT DEG F	MEDIUM	FLOW (GPM)	WPD (FT HD)	EGT DEG F	LGT DEG F	
HX-1	FLAT PLATE	FG10X20-110	BRAZED	HEATING COIL	WATER	32	1.15	145	125	50% PG	29	1	115	140	NUMBER OF PLATES TO MATCH PERFORMANCE SPECIFIED, FLOOR MOUNTED. PROVIDE 30 PSI RELIEF VALVE ON COLD SIDE, ROUTE TO GT-1.

LOUVER PENTHOUSE SCHEDULE

SYMBOL	MANUFACTURER	MODEL	AIR FLOW	VELOCITY	SERVICE	MATERIAL	FINISH	THROAT SIZE(IN.) (LXW)	HEIGHT (IN.)	REMARKS
LPH-1	POTTORF	EPJ-445	21,500	500 FPM	INTAKE	ALUMINUM	PER ARCH	48x72	48	PROVIDE WITH 1X1 BIRDSCREEN AND CURB, FOR CURB DETAILS SEE ARCH.
LPH-2	POTTORF	EPJ-445	2,500	410 FPM	EXHAUST	ALUMINUM	PER ARCH	22x22	20	PROVIDE WITH 3/4x3/4 BIRDSCREEN AND CURB, FOR CURB DETAILS SEE ARCH.
LPH-3	POTTORF	EPJ-445	1200	300 FPM	COMBUSTION AIR/RELIEF	ALUMINUM	PER ARCH	24x24	12	PROVIDE WITH 1X1 BIRDSCREEN AND CURB, FOR CURB DETAILS SEE ARCH.
LPH-4	POTTORF	EPJ-445	1,700	500 FPM	INTAKE	ALUMINUM	PER ARCH	20x20	14	PROVIDE WITH 1X1 BIRDSCREEN AND CURB, FOR CURB DETAILS SEE ARCH.

RANGE HOOD SCHEDULE

SYMBOL	MANUFACTURER	MODEL	DIMENSIONS L"x W"x H"	DUCT SIZE IN.	CFM	SONES	MOTOR DATA AMP/VOLT/PH	REMARKS
RH-1	NUTONE	AHDA130SS	30"x19"x6"	7"Ø	140	5.5	0.65A/120V/1Ø	30" WIDE STAINLESS STEEL RANGE HOOD WITH LIGHTS AND 3 SPEED CONTROL. PROVIDE WITH 7"Ø DUCTED OUTLET.

FAN SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TYPE	SERVICE	CFM	ESP IN W.C.	RPM	HP	POWER	DRIVE	SONES	WEIGHT	LISTING	REMARKS
EF-1,2	TWIN CITY	BCRU-300B	UPBLAST	WARM VEHICLE STORAGE	9,500	0.60	733	2	460/3/60	BELT	20	433 LBS	UL 705	PROVIDE WITH OPTIONAL 24V MOTORIZED DAMPER, BIRDSCREEN, CANTED ROOF CURB, CURB HINGE, RETAINING CHAIN, EARLY ROOF CURB SHIPMENT, SPARE BELT SET, AND NEMA 3R DISCONNECT MOUNTED AND WIRED.
EF-3	TWIN CITY	DCRB-120BE	DOWNBLAST	2ND FLOOR RESTROOMS	1100	0.40	1375	1/2	115/1/60	DIRECT	11.6	85 LBS	UL 705	PROVIDE WITH OPTIONAL 24V MOTORIZED DAMPER, BIRDSCREEN, ROOF CURB, SPEED CONTROLLER MOUNTED, CURB HINGE, RETAINING CHAIN, ROOF CURB EARLY SHIPMENT, AND NEMA 3R DISCONNECT SHIPPED LOOSE FOR INSTALLATION.
EF-4	TWIN CITY	DCRB-90BE	DOWNBLAST	GENERAL KITCHEN EXHAUST	400	0.40	1303	1/6	115/1/60	DIRECT	6.1	68 LBS	UL 705	PROVIDE WITH OPTIONAL 24V MOTORIZED DAMPER, BIRDSCREEN, ROOF CURB, SPEED CONTROLLER MOUNTED, CURB HINGE, RETAINING CHAIN, ROOF CURB EARLY SHIPMENT, AND NEMA 3R DISCONNECT SHIPPED LOOSE FOR INSTALLATION.
CF-1,2,3,4	FLOAIRE	F-HVLS-14	CEILING	WARM VEHICLE STORAGE	80,000	--	60 MAX	1.5	460/3/60	DIRECT	59 DBA	459 LBS	ETL	14' DIAMETER FAN. PROVIDE WITH 4 FAN CONTROL PANEL, DIRECT I-BEAM MOUNT WITH GUY WIRE SUPPORT KIT, FAN MOUNTED VFD. INSTALL IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
VF-1	TWIN CITY	DSI-135AE	INLINE	BOILER ROOM VENTILATION	1700	1.10	1443	1	115/1/60	DIRECT	13.8	102 LBS	UL 507	ECM MOTOR FAN. PROVIDE WITH MOTOR MOUNTED SPEED CONTROLLER, FACTORY MOUNTED PREWIRED DISCONNECT, AND VIBRATION ISOLATORS. PROVIDE AAF 20X20X4 PREPLEAT LPD HC FILTERS.
TF-1	TWIN CITY	TL700	CEILING	ELEC. 207	600	0.30	900	2.9 AMPS	115/1/60	DIRECT	5.0	50 LBS	UL 705	CEILING MOUNTED EXHAUST FAN. PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH AND SPEED CONTROLLER.
DBF-1,2	FANTECH	DBF 4XLT	INLINE	DRYER BOOSTER FAN	170	--	2559	0.73 AMPS	115/1/60	DIRECT	--	10 LBS	UL 507	PROVIDE WITH AUTOMATIC PRESSURE SENSING SWITCH FOR OPERATION, DBLT6W LINT TRAP, AND HS 6W EXTERNAL WALL LOUVER.

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

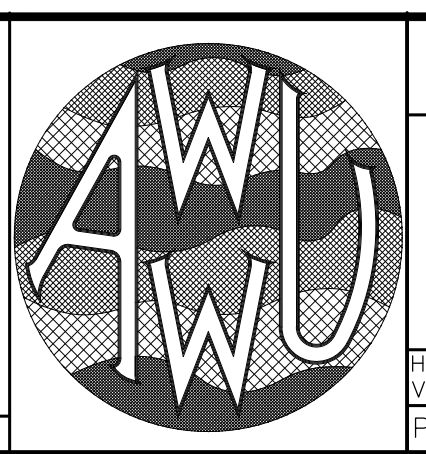
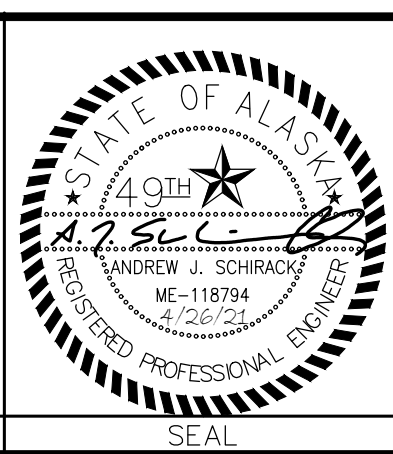
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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

MECHANICAL SCHEDULES

DWG
MO.4

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

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MAKE UP AIR UNIT

SYMBOL	MANUFACTURER	MODEL	FUEL	MAX CAPACITY INPUT(MBH)	MAX. TEMP. RISE	FAN				MOTOR DATA			WEIGHT LBS	REMARKS
						CFM	TSP	ESP	RPM	HP	POWER	FLA		
MAU-1,2	FLOAIRE	F4-D.1000-30D	NG	1,086	100°F	9,500	2.10	1.0	1138	7.50	460V/3φ	10.10	1700	LOW FIRE START, INLET GAS PRESSURE GAUGE, MANIFOLD PRESSURE GAUGE, OCCUPIED SCHEDULING, CLOGGED FILTER SWITCH, FREEZESTAT WITH TIME DELAY RELAY, LOAD REACTOR MOUNTED IN FAN, DIRECT DRIVE PLENUM FAN WITH TOP OUTLET. CONTROLS BY DDC.

ROOF TOP UNIT SCHEDULE

SYMBOL	MANUFACTURER	MODEL	AREA SERVED	COOLING					HEATING			VENTILATION				ELECTRICAL			OPERATING		REMARKS		
				TONS	MBH	DEG F	DEG F	DEG F	INPUT	OUTPUT	TURNDOWN	SUPPLY	TSP	ESP	OA	EXHAUST	TSP	ESP	VOLTS/PHASE	MCA		FUSE	LBS
RTU-1	JOHNSON	GVA1G2B5JA2A60CD232DJ2BGG2B3D0AHA01001A000FF0002	NORTH OFFICE	25	297.2	75	53.8	115	483	405	20:1	11,700	3.88	2.01	17%	11,700	.95	0.5	460/3φ	94	110	6,368	DIRECT DRIVE PLENUM EXHAUST AND SUPPLY FANS W/ 2" SPRING ISOLATION AND SEISMIC RESTRAINT, ALUMINUM FIN EVAPORATOR, STAINLESS STEEL DRAIN PAN, 2" MERV 8 FILTERS, MAGNEHELIC GAUGES, ENTHALPY ECONOMIZER, LOW LEAK DAMPERS, MODULATING GAS HEAT, BACNET MSTP.
RTU-2	JOHNSON	GVC1G3B5JA2A60CG232DJ2BFG2C3D0AHA01001A000MH0002	SOUTH OFFICE	40	507.8	75	53.4	115	750	607	30:1	19,100	3.99	1.94	30%	19,500	1.01	0.5	460/3φ	137	150	8,198	

HEAT RECOVERY VENTILATOR SCHEDULE

SYMBOL	MANUFACTURER	MODEL	WEIGHT	FAN		TSP	ESP	MOTOR DATA		REMARKS
				TYPE	CFM			WC	POWER	
HRV-1	VTS	AVS030	1,680	S/A	2130	3.23	1.0	3 HP	460/3φ	PROVIDE PREHEATING AND POST HEATING GLYCOL COILS INTEGRAL TO UNIT, FACE AND BYPASS DAMPER, MOTORIZED INSULATED E/A AND O/A DAMPERS. ALL DAMPER ACTUATORS, LOW LIMITS, VARIABLE FREQUENCY DRIVES, AND OTHER SENSORS TO BE BY DDC CONTRACTOR.
				E/A	2130	2.70	1.0	2 HP	460/3φ	

AIR INLET/OUTLET SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TYPE	USE	MATERIAL	FINISH	CFM	FACE SIZE (IN.)	NC	REMARKS
A	TITUS	TBD-10	LINEAR SLOT	SUPPLY	STEEL	PER ARCH	PER PLANS	5-1/4" WIDE	<25	2' AND 4' LENGTH, SEE PLANS. DOUBLE SLOT, 1" SLOT WIDTH, AIR PATTERN CONTROLLER, PLENUM, EARTHQUAKE TABS.
B	TITUS	DAT	LAY-IN	SUPPLY	STEEL	PER ARCH	PER PLANS	24" X 24"	<25	2-SLOT, BORDER TYPE 3, EARTHQUAKE TABS.
C	TITUS	OMNI-AA	SURFACE	SUPPLY	ALUMINUM	PER ARCH	PER PLANS	12" X 12"	<25	BORDER TYPE 1.
D	TITUS	300 FL	WALL	SUPPLY	ALUMINUM	PER ARCH	PER PLANS	PER PLANS	<25	BORDER TYPE 1, 3/4" BLADE SPACING, DOUBLE DEFLECTION, INDIVIDUALLY ADJUSTABLE BLADES, FRONT BLADES PARALLEL TO SHORT DIMENSION.
E	TITUS	S-DL-SV	SIDE DUCT	SUPPLY	ALUMINUM	PER ARCH	PER PLANS	36" X 8"	<25	SPLIT VANE OPTION. MODEL ASD AIR SCOOP VOLUME EXTRACTOR.
F	TITUS	45F	SURFACE	EXHAUST	ALUMINUM	PER ARCH	PER PLANS	PER PLANS	<25	BORDER TYPE 1.
G	TITUS	3FL	WALL	EXHAUST	ALUMINUM	PER ARCH	PER PLANS	PER PLANS	<25	BORDER TYPE 1, TYPE A EXPOSED SCREW.
H	TITUS	45F	LAY-IN	RETURN	ALUMINUM	PER ARCH	PER PLANS	24" X 24"	<25	BORDER TYPE 3, EARTHQUAKE TABS.

TRANSFER BOOT SCHEDULE

SYMBOL	DUCT SIZE (INCHES)	FREE OPENING SIZE (INCHES)	CFM	VELOCITY (FPM)	REMARKS
TB-1	12/12	10/10	250	400	PROVIDE WITH 1" SOUNDLINING.
TB-2	14/14	12/12	375	400	PROVIDE WITH 1" SOUNDLINING.
TB-3	18/16	16/14	600	415	PROVIDE WITH 1" SOUNDLINING.
TB-4	24/16	22/14	800	415	PROVIDE WITH 1" SOUNDLINING.

REFRIGERATION UNIT SCHEDULE

SYMBOL	TYPE	MFR	MODEL	AMBIENT TEMP		COOLING CAPACITY NET (BTU/H)	REFRIGERANT TYPE	ELECTRICAL DATA				WEIGHT	LISTING	REMARKS
				SUMMER/WINTER	NET (BTU/H)			# OF FANS	AMPS PER FAN	MCA	VOLTS			
AC-1	EVAPORATOR	DAIKIN	FTXS36LVJU	---	---	36000	R410A	1	0.37	---	---	38 LBS	UL1995	OPTIONAL CONDENSATE PUMP POWERED BY INDOOR UNIT.
CU-1	CONDENSING	DAIKIN	RKS36LVJU	115F/-40F	---	36000	R410A	1	0.39	19.5	208	179 LBS	UL1995	PROVIDE WITH LOW AMBIENT WIND BAFFLES AND WIRED CONTROLLER.

REV	DATE	DESCRIPTION	BY

REVISIONS

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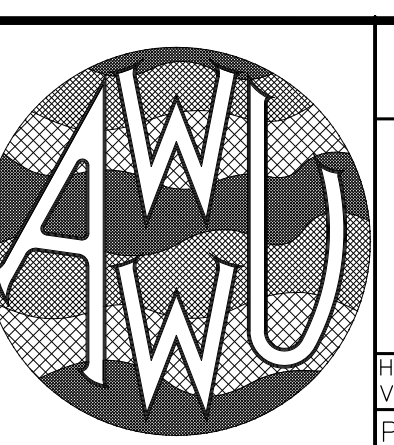
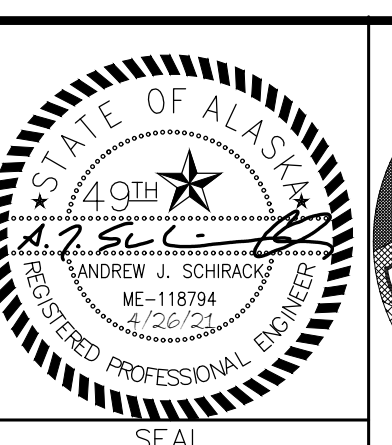
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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

MECHANICAL SCHEDULES

DWG
M0.5

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

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VAV BOX SCHEDULE

SYMBOL	MANUFACTURER	MODEL	INLET SIZE	CFM MAX	CFM MIN	HOT WATER HEATING COIL				EAT	LAT	APD	FLOW	MEDIUM	EWT	LWT	WPD	PLENUM SIZE (IN.)	REMARKS
						SYMBOL	CFM	MBH	ROWS										
VAV-1-1	TITUS	DESV	8	440	90	HC-1-1	90	2.9	1	55	85	0.5	0.5	WATER	145	105	<5	12/12	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-2	TITUS	DESV	8	440	90	HC-1-2	90	2.9	1	55	85	0.5	0.5	WATER	145	105	<5	12/12	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-3	TITUS	DESV	6	200	45	HC-1-3	45	1.6	1	55	85	0.5	0.5	WATER	145	105	<5	12/8	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-4	TITUS	DESV	8	600	105	HC-1-4	105	3.3	1	55	85	0.5	0.5	WATER	145	105	<5	14/12	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-5	TITUS	DESV	6	225	45	HC-1-5	45	1.7	1	55	85	0.5	0.5	WATER	145	105	<5	12/8	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-6	TITUS	DESV	6	230	45	HC-1-6	45	1.8	1	55	85	0.5	0.5	WATER	145	105	<5	12/8	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-7	TITUS	DESV	8	420	90	HC-1-7	90	2.8	1	55	85	0.5	0.5	WATER	145	105	<5	12/12	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-8	TITUS	DESV	6	380	65	HC-1-8	65	2.4	1	55	85	0.5	0.5	WATER	145	105	<5	12/10	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-9	TITUS	DESV	8	520	90	HC-1-9	90	3.1	1	55	85	0.5	0.5	WATER	145	105	<5	14/12	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-10	TITUS	DESV	6	100	45	HC-1-10	45	1.8	1	55	85	0.5	0.5	WATER	145	105	<5	10/8	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-11	TITUS	DESV	6	230	45	HC-1-11	45	1.8	1	55	85	0.5	0.5	WATER	145	105	<5	12/8	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-12	TITUS	DESV	12	1590	270	HC-1-12	270	8.8	1	55	85	0.5	2.0	WATER	145	105	<5	20/16	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-13	TITUS	DESV	12	1590	270	HC-1-13	270	8.8	1	55	85	0.5	2.0	WATER	145	105	<5	20/16	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-14	TITUS	DESV	6	200	45	HC-1-14	45	1.6	1	55	85	0.5	0.5	WATER	145	105	<5	12/8	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-15	TITUS	DESV	6	270	45	HC-1-15	45	2.0	1	55	85	0.5	0.5	WATER	145	105	<5	12/10	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-16	TITUS	DESV	6	200	45	HC-1-16	45	1.6	1	55	85	0.5	0.5	WATER	145	105	<5	12/8	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-17	TITUS	DESV	6	220	45	HC-1-17	45	1.7	1	55	85	0.5	0.5	WATER	145	105	<5	12/8	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-18	TITUS	DESV	6	320	55	HC-1-18	55	2.1	1	55	85	0.5	0.5	WATER	145	105	<5	12/10	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-1-19	TITUS	DESV	10	825	150	HC-1-19	150	4.8	1	55	85	0.5	1.0	WATER	145	105	<5	16/14	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-2-1	TITUS	DESV	10	980	165	HC-2-1	165	5.4	1	55	85	0.5	1.0	WATER	145	105	<5	18/14	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-2-2	TITUS	DESV	8	770	130	HC-2-2	130	4.3	1	55	85	0.5	1.0	WATER	145	105	<5	16/14	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-2-3	TITUS	DESV	6	200	45	HC-2-3	45	1.6	1	55	85	0.5	0.5	WATER	145	105	<5	12/8	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-2-4	TITUS	DESV	8	770	130	HC-2-4	130	4.3	1	55	85	0.5	1.0	WATER	145	105	<5	16/14	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-2-5	TITUS	DESV	14	2295	390	HC-2-5	390	12.7	1	55	85	0.5	2.5	WATER	145	105	<5	26/16	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-2-6	TITUS	DESV	14	2295	390	HC-2-6	390	12.7	1	55	85	0.5	2.5	WATER	145	105	<5	26/16	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-2-7	TITUS	DESV	14	2295	390	HC-2-7	390	12.7	1	55	85	0.5	2.5	WATER	145	105	<5	26/16	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-2-8	TITUS	DESV	14	2295	390	HC-2-8	390	12.7	1	55	85	0.5	2.5	WATER	145	105	<5	26/16	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-2-9	TITUS	DESV	6	200	45	HC-2-9	45	1.6	1	55	85	0.5	0.5	WATER	145	105	<5	12/8	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-2-10	TITUS	DESV	8	270	90	HC-2-10	90	2.0	1	55	85	0.5	0.5	WATER	145	105	<5	12/10	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-2-11	TITUS	DESV	6	200	45	HC-2-11	45	1.6	1	55	85	0.5	0.5	WATER	145	105	<5	12/8	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-2-12	TITUS	DESV	6	100	45	HC-2-12	45	1.0	1	55	85	0.5	0.5	WATER	145	105	<5	10/8	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.
VAV-2-13	TITUS	DESV	6	360	60	HC-2-13	60	2.4	1	55	85	0.5	0.5	WATER	145	105	<5	12/10	3/4" HWS/HWR BRANCH PIPING, COORDINATE CONTROLS INTERFACE WITH DDC CONTRACTOR.

*VAV PLENUM DIMENSIONS ARE OVERALL, INTERNAL DIMENSIONS SHALL BE (-2") FOR THE VALUES GIVEN.

RADIANT AND SNOWMELT MANIFOLD ZONE SCHEDULE

ZONE	MANIFOLD	INSTALLATION	DESCRIPTION	AREA (SQ. FT.)	TUBING SIZE	OUTPUT REQUIRED	SUPPLY TEMPERATURE	TEMPERATURE DROP	FLOW (GPM)	PD (FT HD)	TUBING LENGTH	REMARKS
RMZ-1	RM-1	SURFACE	MENS RR, LOCKER, & ENTRY	2150	5/8"	15 BTU/SQ. FT.	145 DEG F	10 DEG F	6.5	4.0	300' MAX	6" SLAB, TUBING DEPTH OF 5.5", TILE FLOORING, PROVIDE MANIFOLDS, TUBING RESTRAINT, SENSORS, AND OTHER APPURTENANCES SPECIFIED.
RMZ-2	RM-2	SURFACE	WOMENS RR, LOCKER, & FIRE PUMP RM	2050	5/8"	15 BTU/SQ. FT.	145 DEG F	10 DEG F	5.5	5.0	300' MAX	6" SLAB, TUBING DEPTH OF 5.5", TILE FLOORING, PROVIDE MANIFOLDS, TUBING RESTRAINT, SENSORS, AND OTHER APPURTENANCES SPECIFIED.
RMZ-3	RM-3	SURFACE	WARM VEHICLE STORAGE	3266	5/8"	25 BTU/SQ. FT.	145 DEG F	10 DEG F	18.0	18.0	310' MAX	10" SLAB, TUBING DEPTH OF 9.5", NO FLOORING, PROVIDE MANIFOLDS, TUBING RESTRAINT, SENSORS, AND OTHER APPURTENANCES SPECIFIED.
RMZ-4	RM-4	SURFACE	WARM VEHICLE STORAGE	2865	5/8"	25 BTU/SQ. FT.	145 DEG F	10 DEG F	16.0	15.8	310' MAX	10" SLAB, TUBING DEPTH OF 9.5", NO FLOORING, PROVIDE MANIFOLDS, TUBING RESTRAINT, SENSORS, AND OTHER APPURTENANCES SPECIFIED.
RMZ-5	RM-5	SURFACE	WARM VEHICLE STORAGE	2865	5/8"	25 BTU/SQ. FT.	145 DEG F	10 DEG F	16.0	15.5	310' MAX	10" SLAB, TUBING DEPTH OF 9.5", NO FLOORING, PROVIDE MANIFOLDS, TUBING RESTRAINT, SENSORS, AND OTHER APPURTENANCES SPECIFIED.
RMZ-6	RM-6	SURFACE	WARM VEHICLE STORAGE	3236	5/8"	25 BTU/SQ. FT.	145 DEG F	10 DEG F	18.0	18.0	310' MAX	10" SLAB, TUBING DEPTH OF 9.5", NO FLOORING, PROVIDE MANIFOLDS, TUBING RESTRAINT, SENSORS, AND OTHER APPURTENANCES SPECIFIED.
RMZ-7	RM-7	SURFACE	WARM VEHICLE STORAGE	3227	5/8"	25 BTU/SQ. FT.	145 DEG F	10 DEG F	18.0	17.6	310' MAX	10" SLAB, TUBING DEPTH OF 9.5", NO FLOORING, PROVIDE MANIFOLDS, TUBING RESTRAINT, SENSORS, AND OTHER APPURTENANCES SPECIFIED.
RMZ-8	RM-8	SURFACE	WARM VEHICLE STORAGE	2853	5/8"	25 BTU/SQ. FT.	145 DEG F	10 DEG F	16.0	15.8	310' MAX	10" SLAB, TUBING DEPTH OF 9.5", NO FLOORING, PROVIDE MANIFOLDS, TUBING RESTRAINT, SENSORS, AND OTHER APPURTENANCES SPECIFIED.
RMZ-9	RM-9	SURFACE	WARM VEHICLE STORAGE	2853	5/8"	25 BTU/SQ. FT.	145 DEG F	10 DEG F	16.0	16.0	310' MAX	10" SLAB, TUBING DEPTH OF 9.5", NO FLOORING, PROVIDE MANIFOLDS, TUBING RESTRAINT, SENSORS, AND OTHER APPURTENANCES SPECIFIED.
RMZ-10	RM-10	SURFACE	WARM VEHICLE STORAGE	3249	5/8"	25 BTU/SQ. FT.	145 DEG F	10 DEG F	18.0	17.5	310' MAX	10" SLAB, TUBING DEPTH OF 9.5", NO FLOORING, PROVIDE MANIFOLDS, TUBING RESTRAINT, SENSORS, AND OTHER APPURTENANCES SPECIFIED.
SMZ-1	SM-1	RECESSED	SOUTHEAST SIDEWALK	420	3/4"	165 BTU/SQ. FT.	140 DEG F	25 DEG F	6.7	10	150' MAX	4" SIDE WALK, TUBING INSTALLED ON INSULATION AT BOTTOM OF SLAB. PROVIDE MANIFOLD WITH INTERNAL FACING ACCESS DOOR. DDC TO PROVIDE CONTROLS.

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

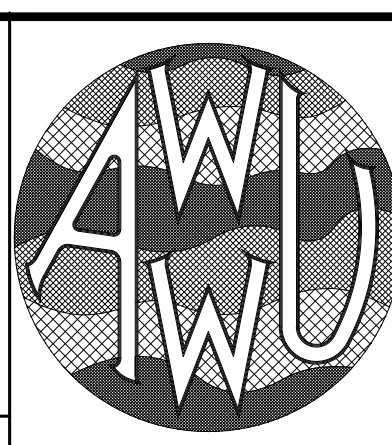
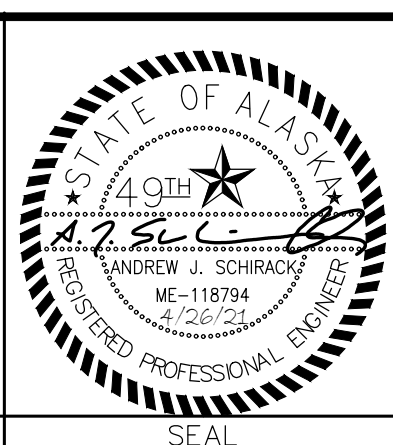
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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

MECHANICAL SCHEDULES

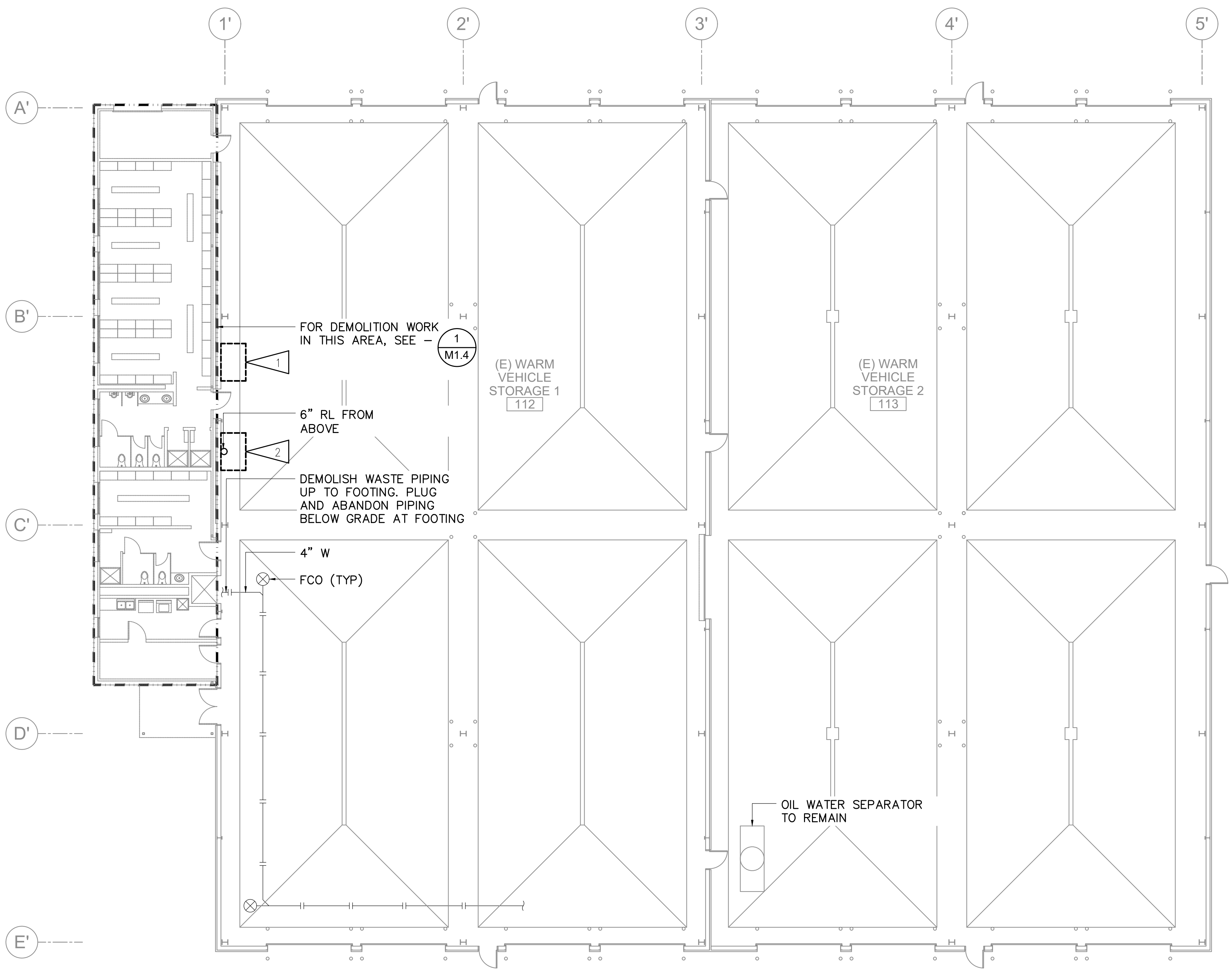
DATE: APRIL 2021 GRID: SW 2431

PROJ. ID.: WW.H7775

DWG
M0.6

HORIZ SCALE: N/A
VERT SCALE: N/A

SHEET 192 of 288



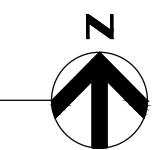
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- B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- C. DASHED OR DOTTED BOLD LINES INDICATE ITEMS TO BE REMOVED. UNBOLDED LINES INDICATE EXISTING ITEMS TO REMAIN.
- D. EXISTING EQUIPMENT AND CONTROLS TO REMAIN UNLESS INDICATED.

SHEET NOTES

- 1 FLOOR CUT AS NECESSARY TO REROUTE 6" RL FOR REMODEL WORK.
- 2 FLOOR CUT AS NECESSARY TO DEMOLISH 6" RL.

1 M1.1 DEMOLITION FIRST FLOOR – UNDERFLOOR PLUMBING PLAN
3/32" = 1'-0"



REV	DATE	DESCRIPTION	BY

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 RSA Job No.: L9266
 CONSULTANT

STATE OF ALASKA
 4 QTH
 ANDREW J. SCHIRACK
 ME-119794
 4/20/21
 REGISTERED PROFESSIONAL ENGINEER
 SEAL

MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

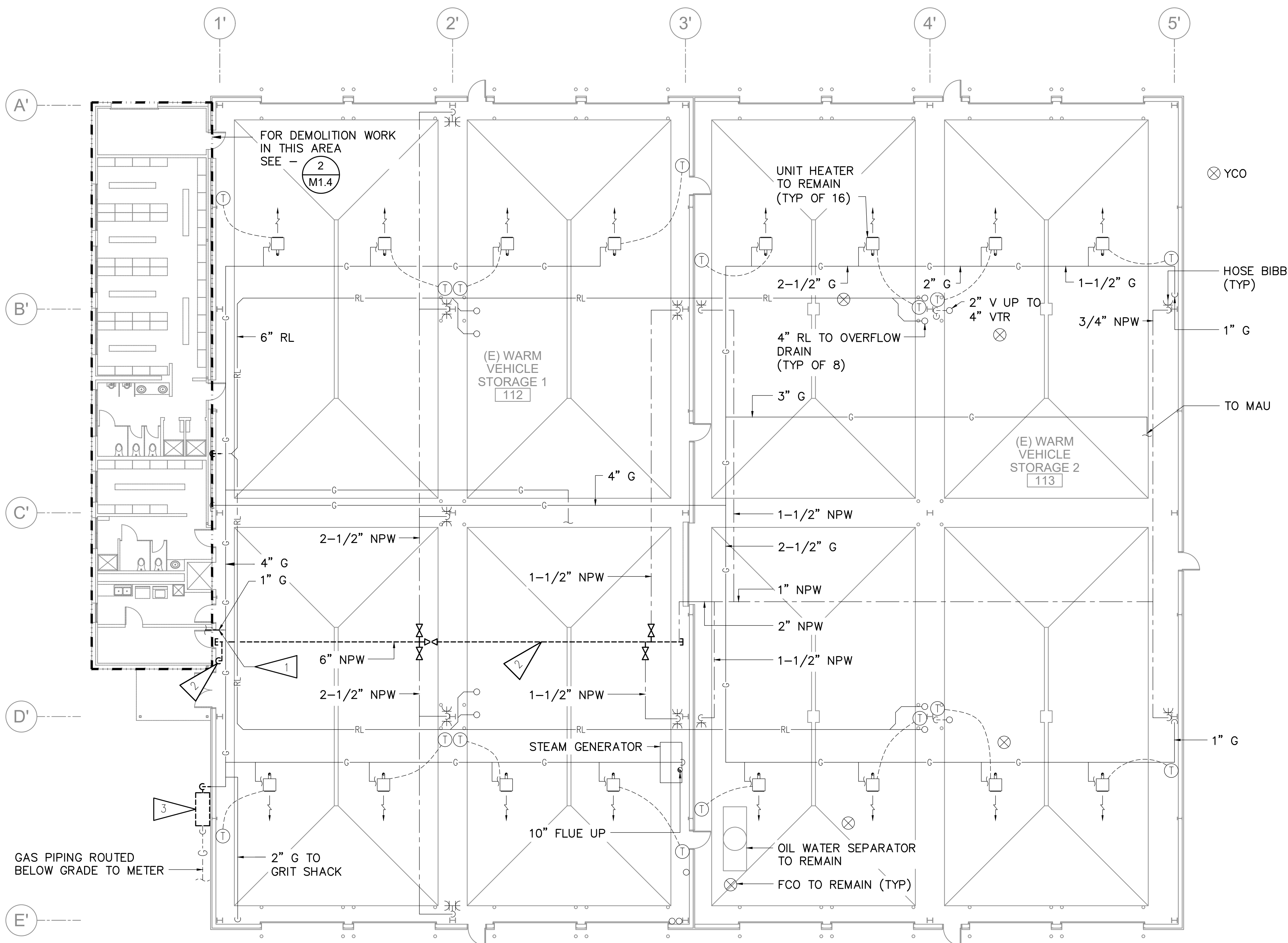
**DEMOLITION FIRST FLOOR
 UNDERFLOOR PLUMBING PLAN**

PROJ. ID.: WW.H7775

DATE: APRIL 2021 GRID: SW 2431

DWG **M1.1**

SHEET 193 of 288



GENERAL NOTES

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- C. DASHED OR DOTTED BOLD LINES INDICATE ITEMS TO BE REMOVED. UNBOLDED LINES INDICATE EXISTING ITEMS TO REMAIN.
- D. EXISTING EQUIPMENT AND CONTROLS TO REMAIN UNLESS INDICATED.
- E. CONTRACTOR SHALL COORDINATE WITH OWNER TO MAINTAIN ALL UTILITIES TO THE EXISTING FACILITY THROUGHOUT CONSTRUCTION. PROVIDE NOTICE OF UTILITY SHUTDOWN IN ACCORDANCE WITH SPECIFICATIONS.

SHEET NOTES

- 1 DEMOLISH GAS BRANCH LINE BACK TO 4" MAIN AND CAP.
- 2 6" NPW FROM BACKFLOW PREVENTER. DEMOLISH PIPING INTO WARM VEHICLE STORAGE AND SALVAGE FOR RECONNECTION UNDER REMODEL PLANS.
- 3 COORDINATE WITH LOCAL GAS UTILITY FOR REPLACEMENT OF GAS METER AS NECESSARY TO SERVE EXISTING FACILITY AND ADDITION. FOR GAS SCHEMATIC, SEE - M7.2

1 DEMOLITION FIRST FLOOR - ABOVE FLOOR PLUMBING PLAN
M1.2 3/32" = 1'-0"

REV	DATE	DESCRIPTION	BY

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 BY: _____

2. DATA TRANSFERRED BY: _____
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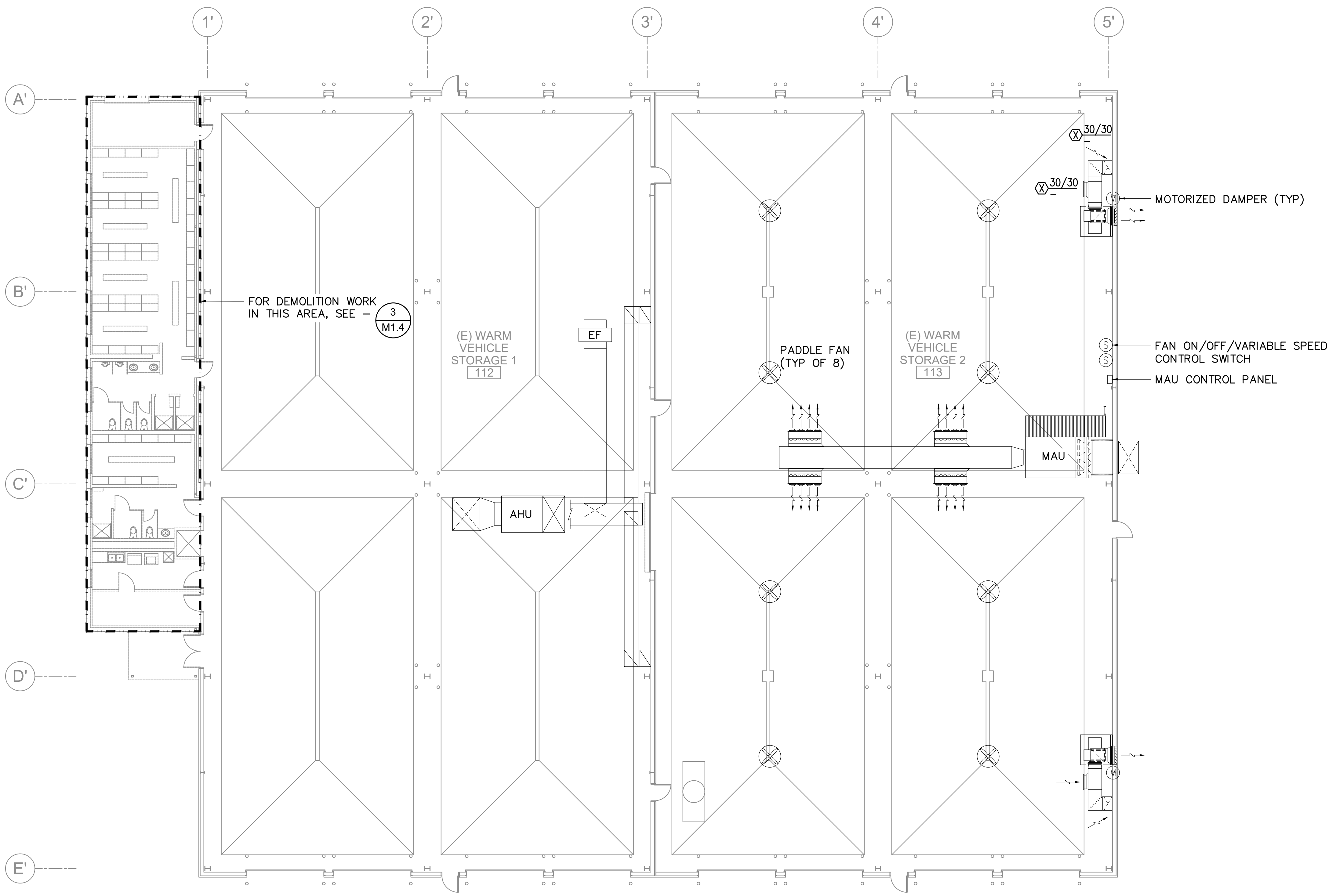
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 4/26/22
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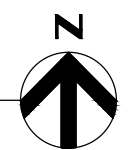
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 WATER & WASTEWATER UTILITY
 KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
**DEMOLITION FIRST FLOOR
 ABOVE FLOOR PLUMBING PLAN**
 DWG M1.2
 HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775
 SHEET 194 of 288



GENERAL NOTES

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1 DEMOLITION FIRST FLOOR – HVAC PLAN
M1.3 3/32" = 1'-0"



VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY

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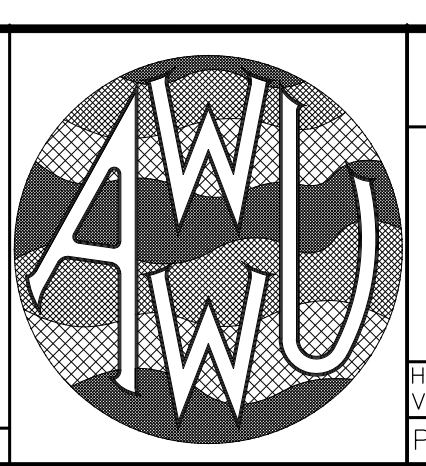
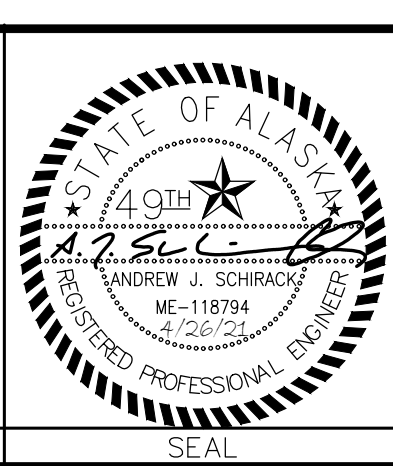
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

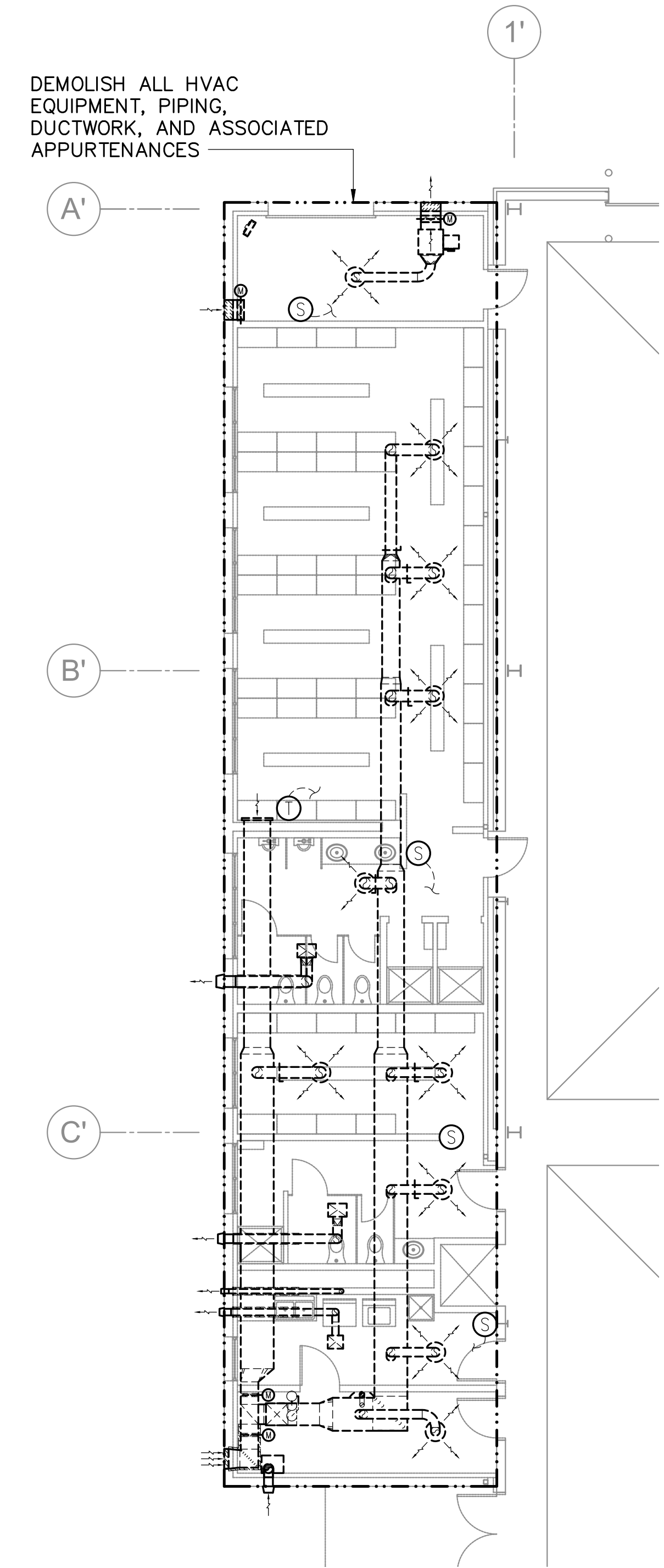
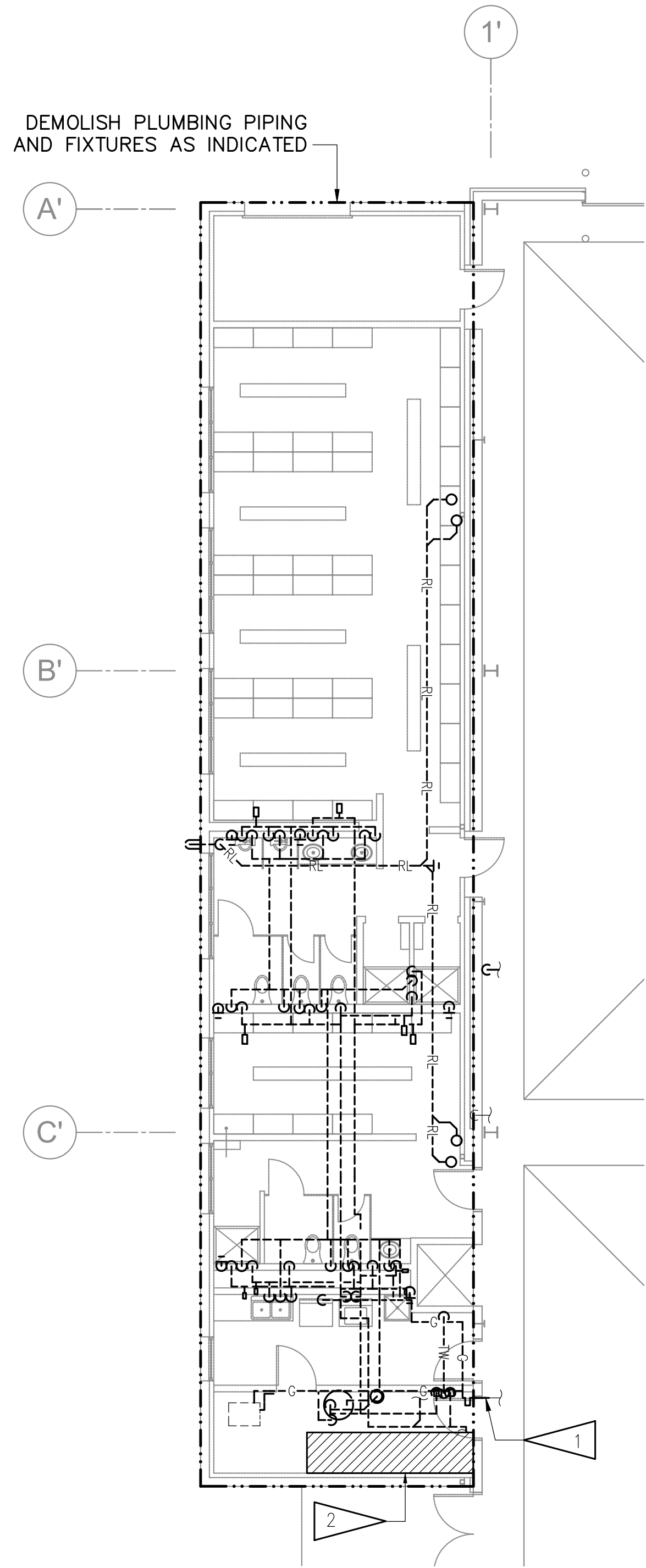
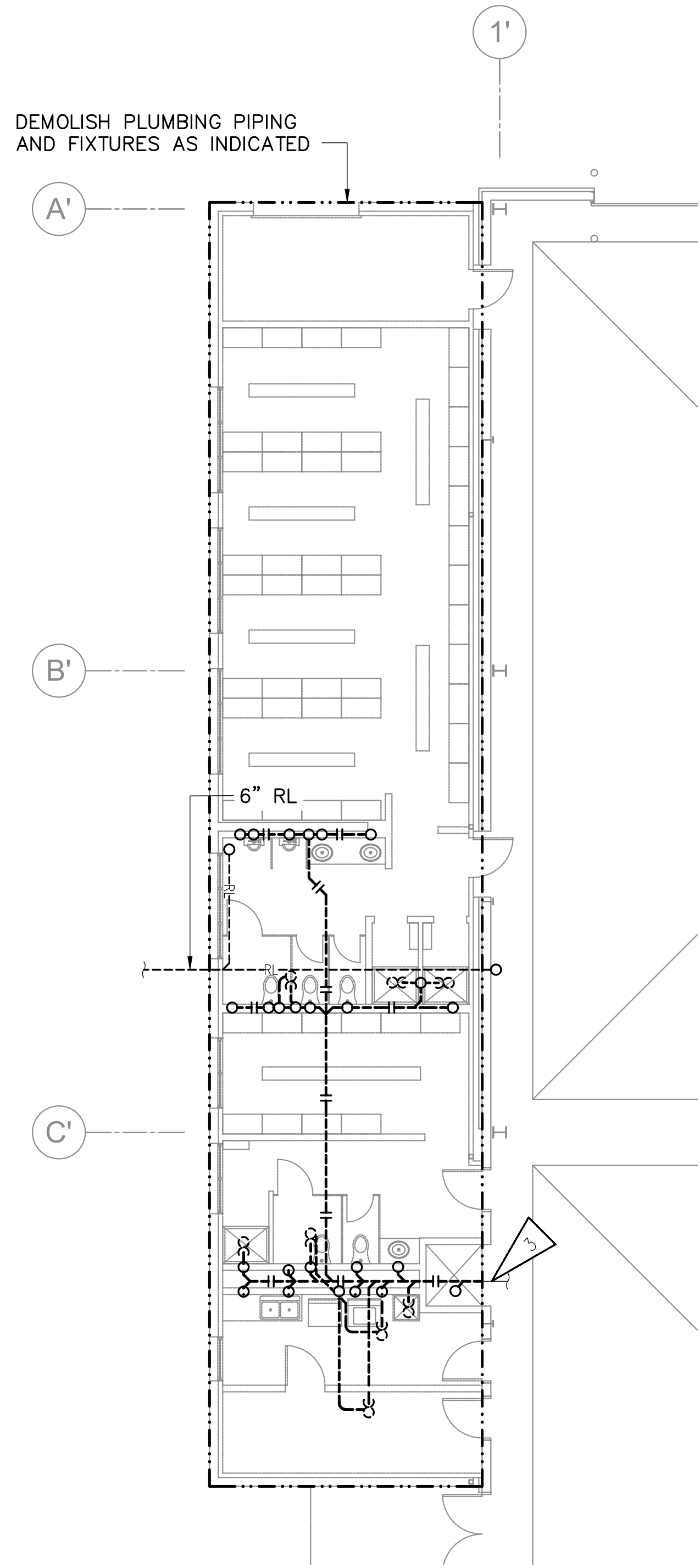
DEMOLITION FIRST FLOOR HVAC PLAN

PROJ. ID.: WW.H7775

DATE: APRIL 2021 GRID: SW 2431

DWG **M1.3**

SHEET 195 of 288



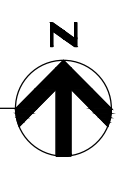
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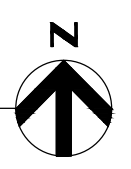
SHEET NOTES

- 1 DEMOLISH GAS BACK TO MAIN LINE AND CAP.
- 2 DEMOLISH RISER VALVE AND ASSOCIATED APPURTENANCES. DEMOLISH SPRINKLER PIPING INTO WARM VEHICLES STORAGE AREA; SALVAGE REMAINING SYSTEM FOR RECONNECTION TO FIRE PUMP SYSTEM PROVIDED UNDER REMODEL WORK.
- 3 DEMOLISH WASTE LINE UP TO FOOTING AND PLUG WITH APPROVED FITTING.

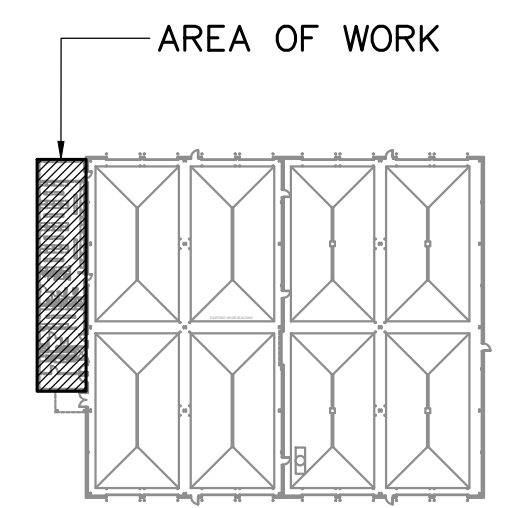
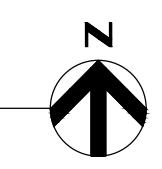
1 DEMOLITION UNDERFLOOR - PLUMBING PLAN
M1.4 1/8" = 1'-0"



2 DEMOLITION FIRST FLOOR - PLUMBING PLAN
M1.4 1/8" = 1'-0"



3 DEMOLITION FIRST FLOOR - HVAC PLAN
M1.4 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

REV	DATE	DESCRIPTION	BY

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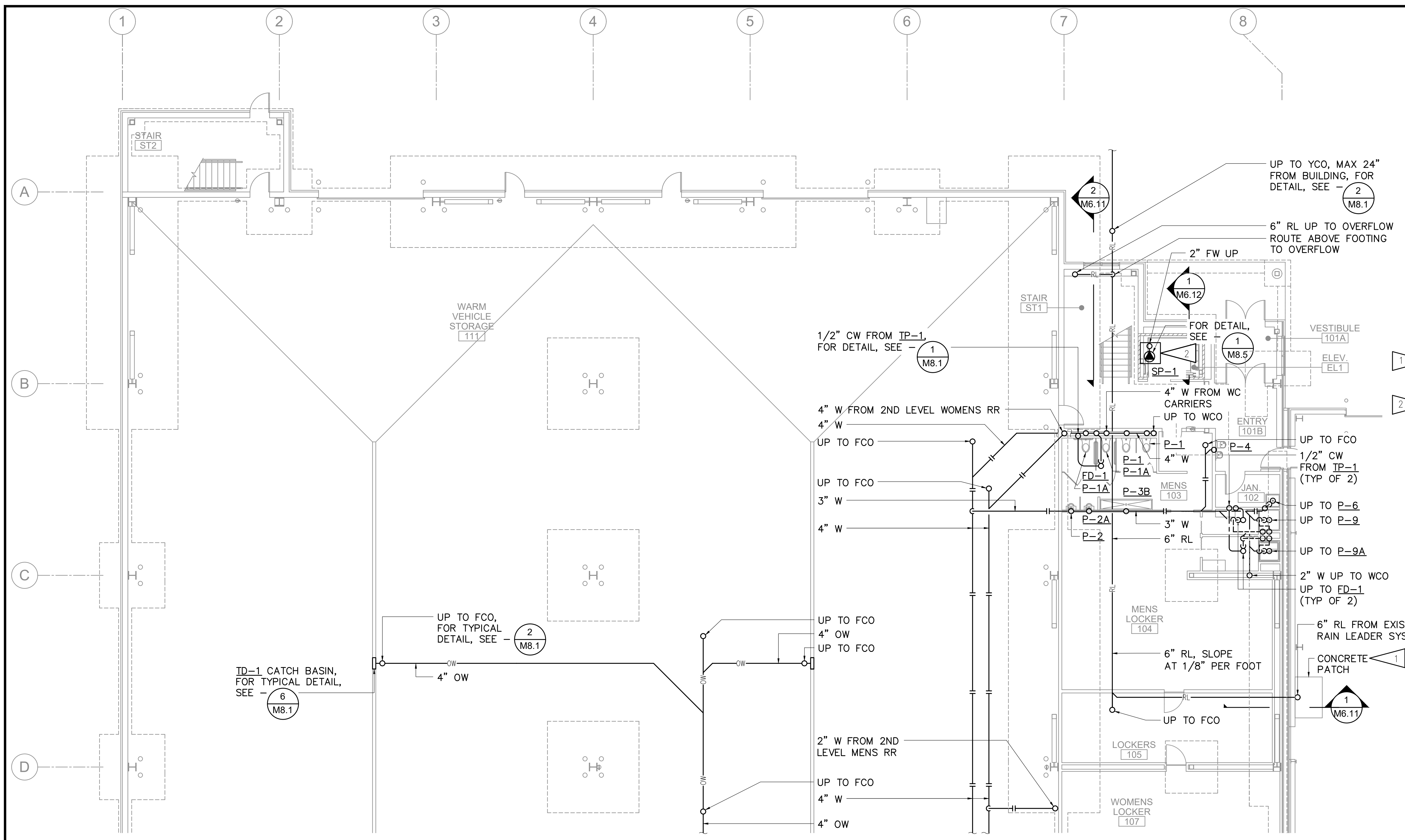
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STATE OF ALASKA
4th DISTRICT
ANDREW J. SCHIRACK
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4/26/20
REGISTERED PROFESSIONAL ENGINEER
SEAL

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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
DEMOLITION ENLARGED PLANS
HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775
DWG **M1.4**
SHEET 196 of 288



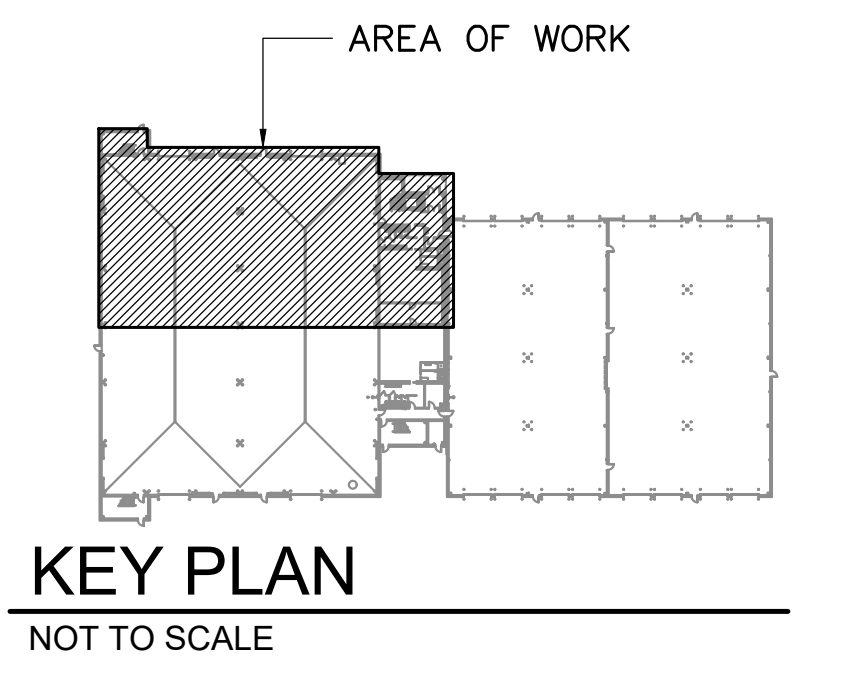
GENERAL NOTES

- A. ALL FIXTURES ON FIRST FLOOR SHALL DRAIN THROUGH BACKWATER VALVE. ALL FIXTURES ON SECOND FLOOR SHALL BE SEPARATE.
- B. DASHED LINES ARE STRUCTURAL FOOTINGS. CONTRACTOR TO COORDINATE ROUTING WITH OTHER TRADES.

SHEET NOTES

- 1 PATCH CONCRETE AS NECESSARY TO MATCH ADJACENT. FOR DETAIL, SEE STRUCTURAL.
- 2 FOR SP-1 ALARM PANEL LOCATION, SEE M2.9

1 FIRST FLOOR - NORTH - UNDERFLOOR PLUMBING PLAN
M2.1 1/8" = 1'-0"



VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY

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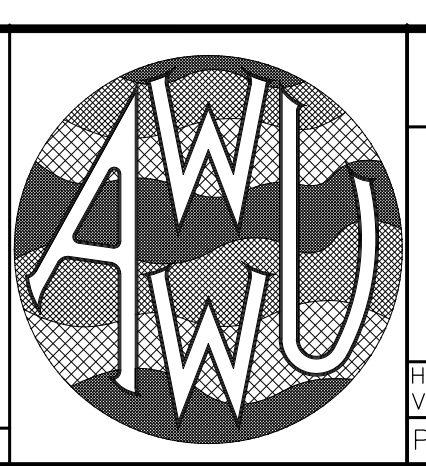
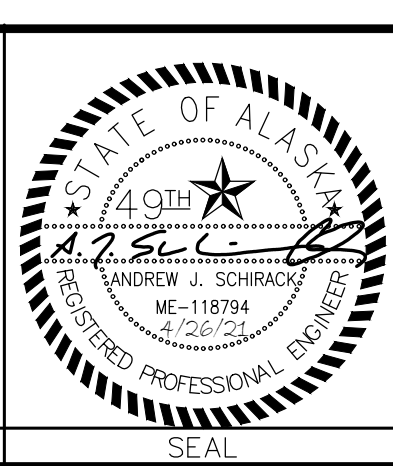
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 WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

**FIRST FLOOR - NORTH
 UNDERFLOOR PLUMBING PLAN**

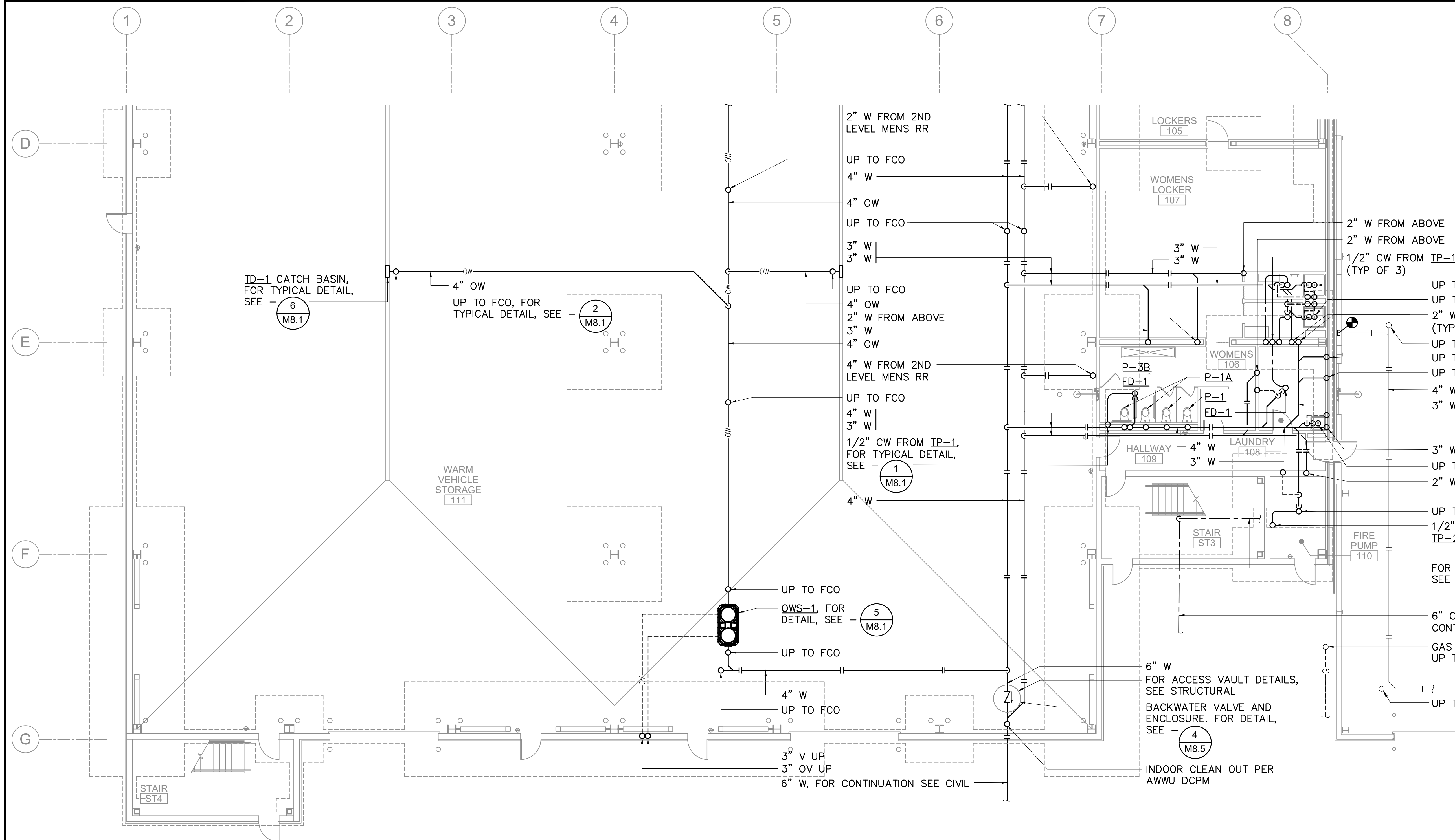
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 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

DWG **M2.1**

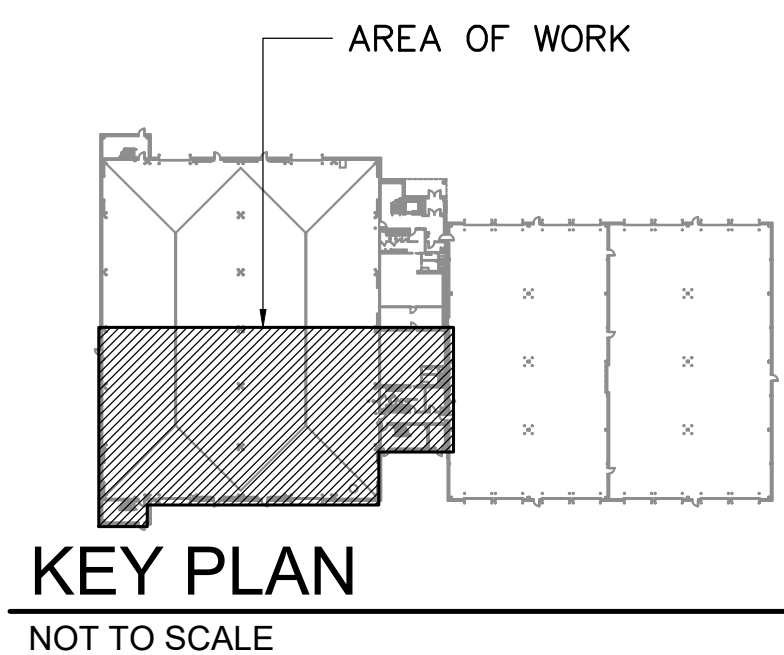
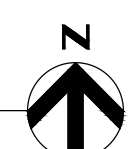
SHEET 197 of 288

GENERAL NOTES

- A. ALL FIXTURES ON FIRST FLOOR SHALL DRAIN THROUGH BACKWATER VALVE. ALL FIXTURES ON SECOND FLOOR SHALL BE SEPARATE.
- B. DASHED LINES ARE STRUCTURAL FOOTINGS. CONTRACTOR TO COORDINATE ROUTING WITH OTHER TRADES.



1 FIRST FLOOR - SOUTH - UNDERFLOOR PLUMBING PLAN
M2.2 1/8" = 1'-0"



VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY

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 RSA Job No.: L9266
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STATE OF ALASKA
 4th DISTRICT
 ANDREW J. SCHIRACK
 ME-118794
 4/26/2021
 REGISTERED PROFESSIONAL ENGINEER
 SEAL

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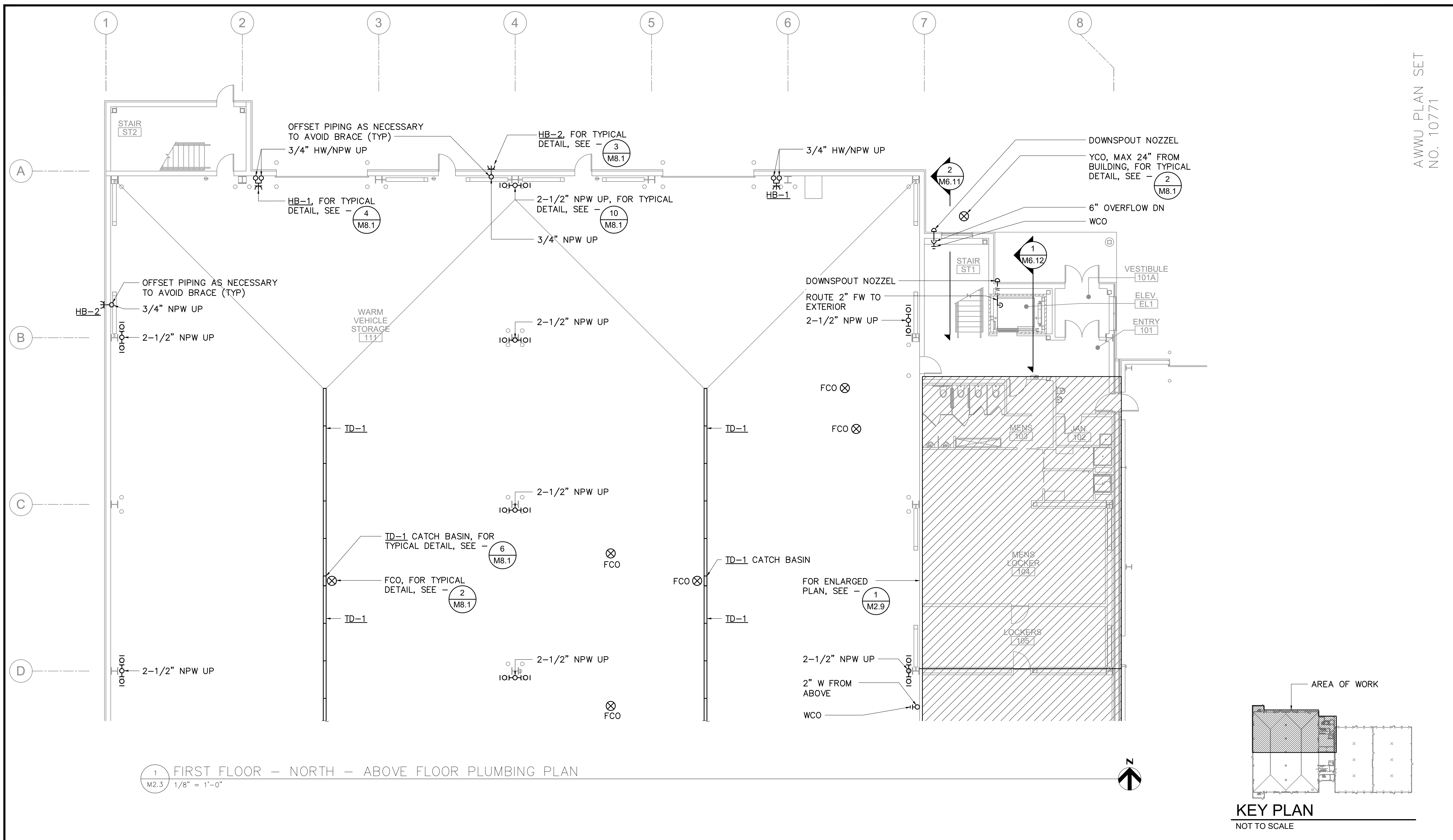
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

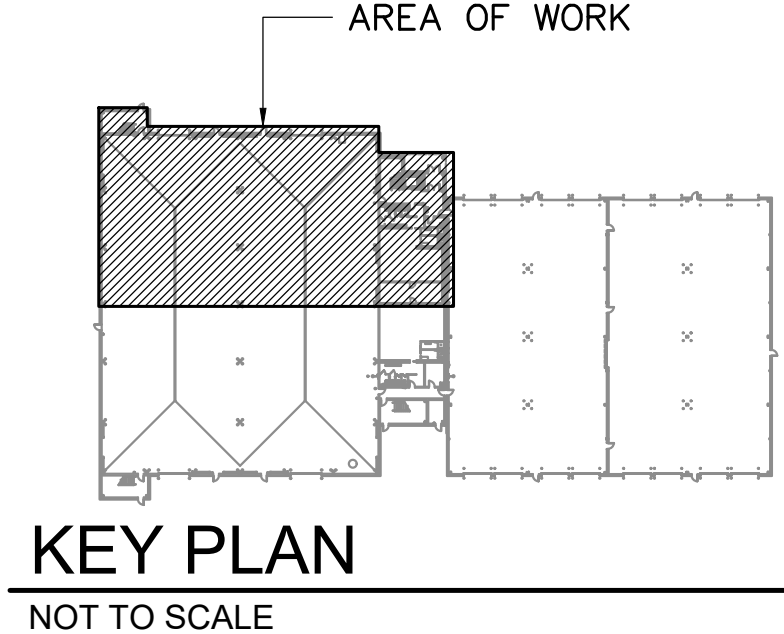
FIRST FLOOR - SOUTH UNDERFLOOR PLUMBING PLAN

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

DWG **M2.2** SHEET 198 of 288



1 FIRST FLOOR - NORTH - ABOVE FLOOR PLUMBING PLAN
M2.3 1/8" = 1'-0"



VERIFY SCALE			
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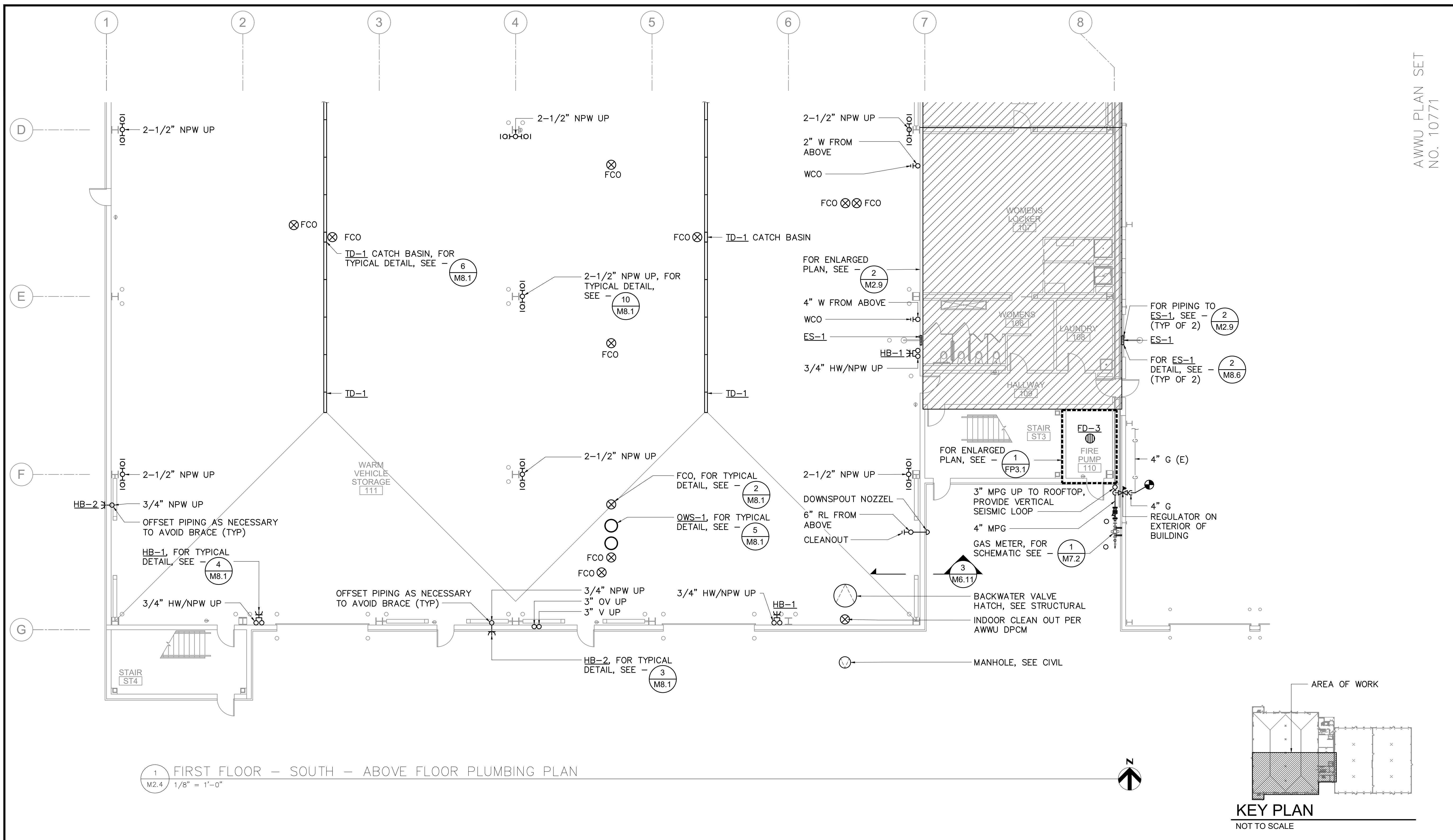
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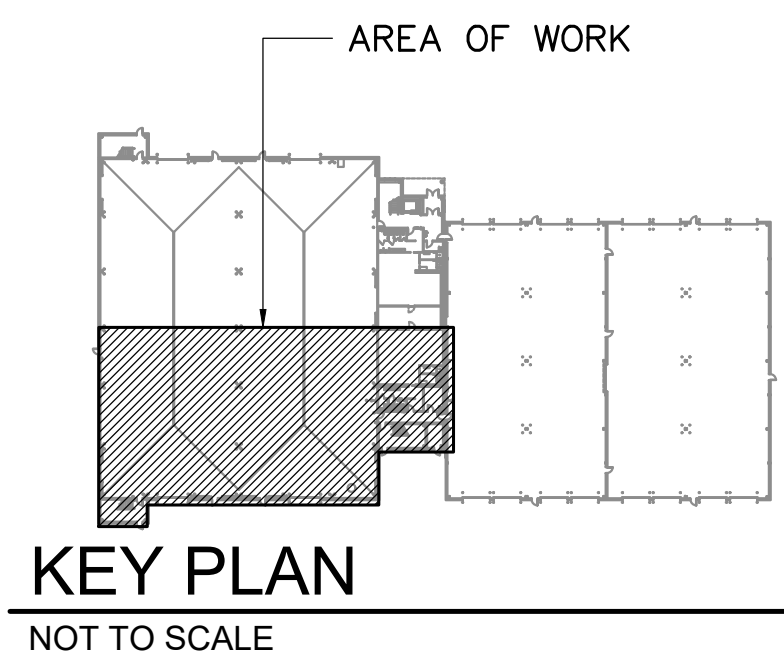
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 4/26/21
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 SEAL

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 WATER & WASTEWATER UTILITY
 KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
**FIRST FLOOR - NORTH
 ABOVE FLOOR PLUMBING PLAN**
 DWG M2.3
 HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775
 SHEET 199 of 288



1 FIRST FLOOR - SOUTH - ABOVE FLOOR PLUMBING PLAN
M2.4 1/8" = 1'-0"



VERIFY SCALE			
REV	DATE	DESCRIPTION	BY

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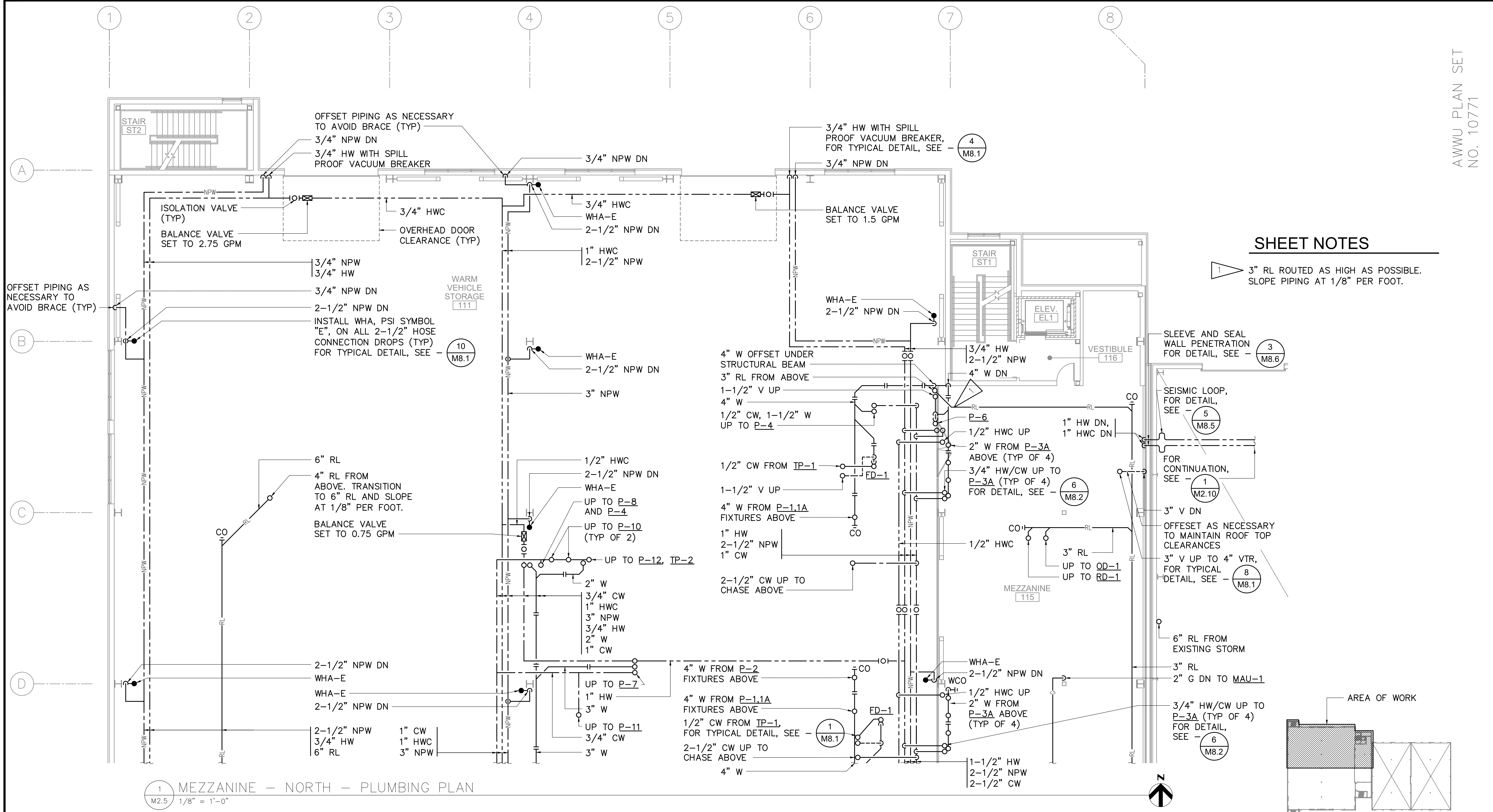
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**FIRST FLOOR - SOUTH
 ABOVE FLOOR PLUMBING PLAN**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG
M2.4
 SHEET 200 of 288



SHEET NOTES

1 3\"/>

3 M8.6

5 M8.5

1 M2.10

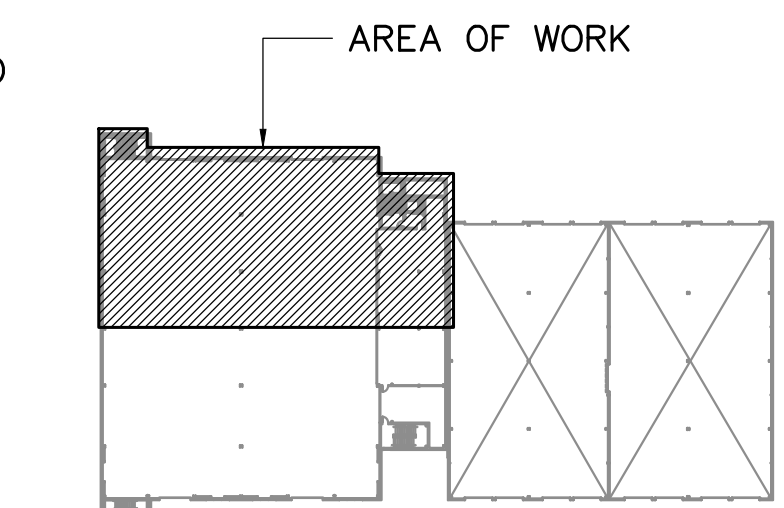
6 M8.2

8 M8.1

1 M8.1

6 M8.2

1 MEZZANINE - NORTH - PLUMBING PLAN
M2.5 1/8\"/>



KEY PLAN
NOT TO SCALE

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY

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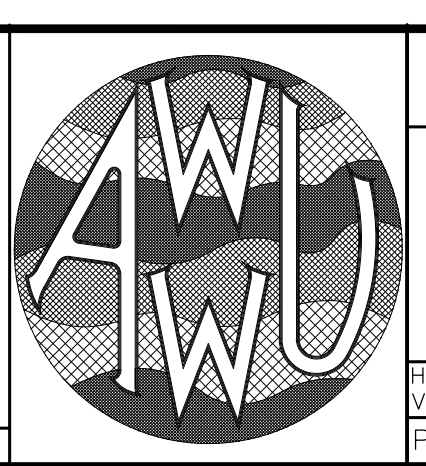
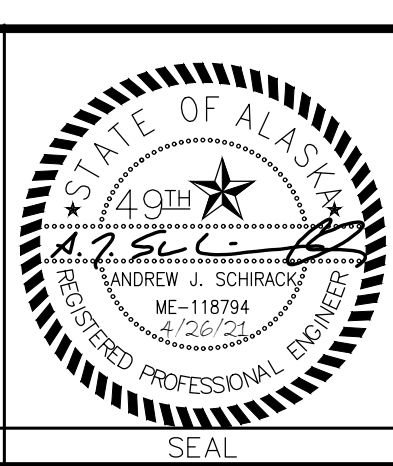
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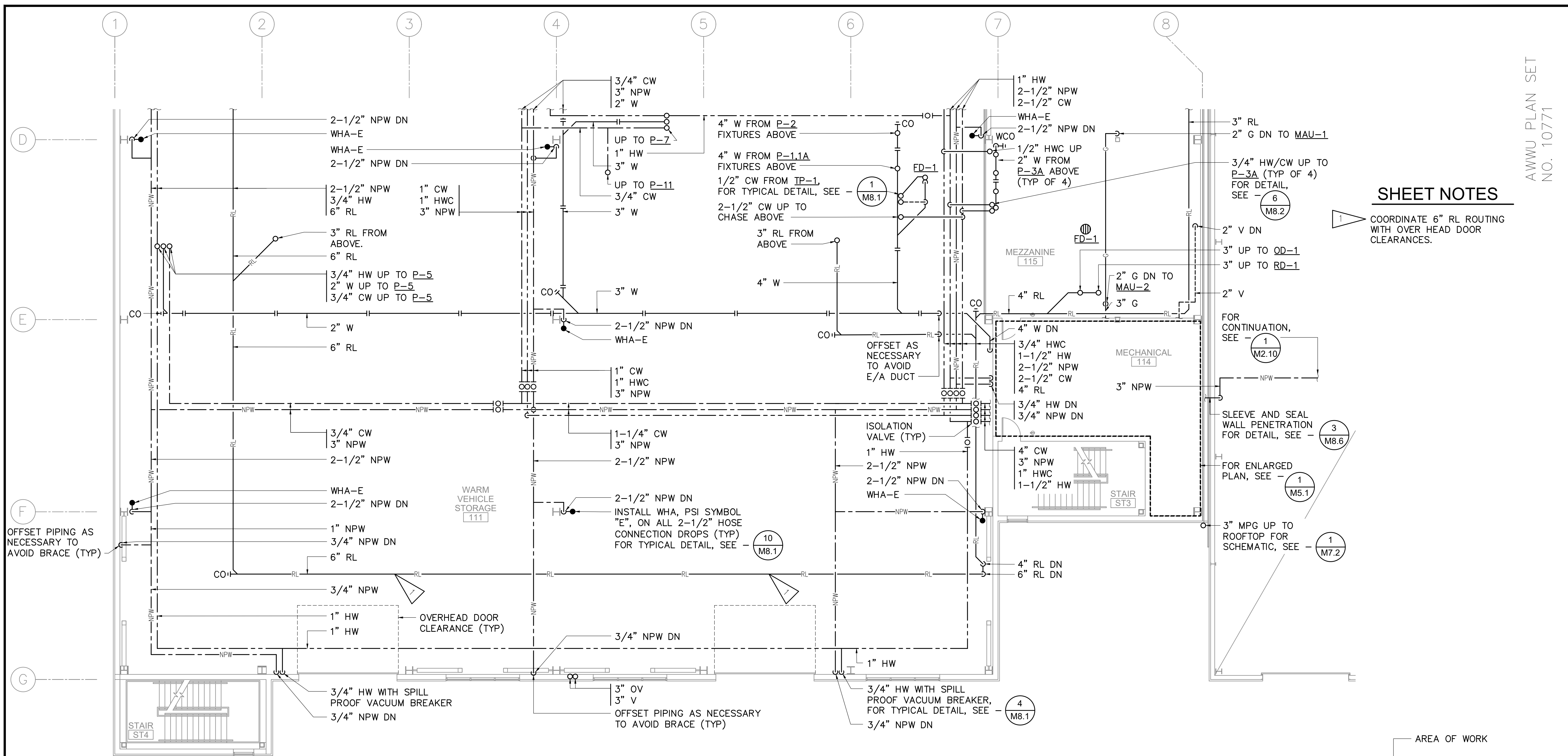
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

**MEZZANINE - NORTH
 PLUMBING PLAN**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG **M2.5**

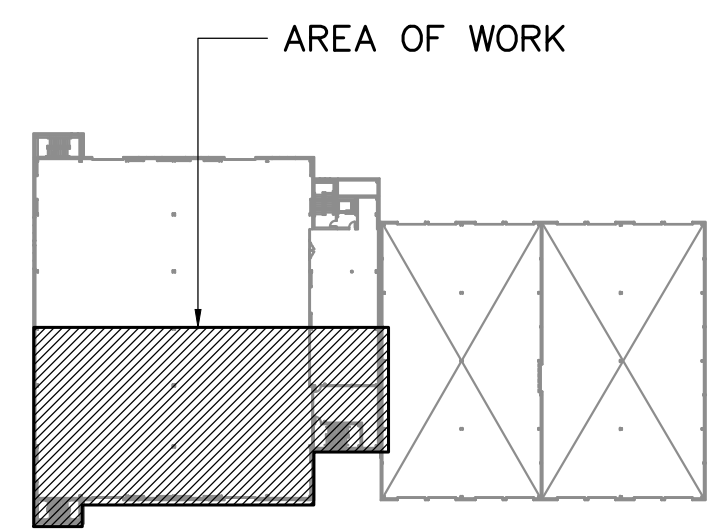
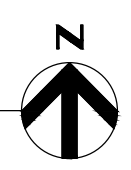
SHEET 201 of 288



SHEET NOTES

1. COORDINATE 6" RL ROUTING WITH OVER HEAD DOOR CLEARANCES.

1 MEZZANINE - SOUTH - PLUMBING PLAN
M2.6 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

VERIFY SCALE			
REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

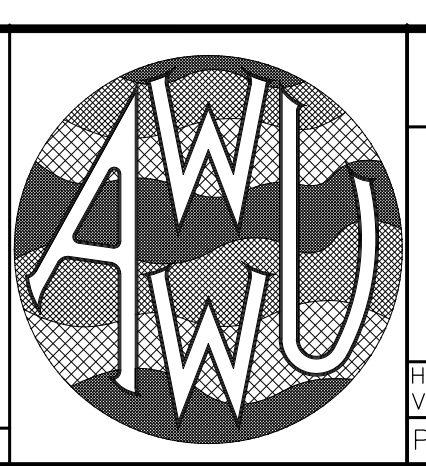
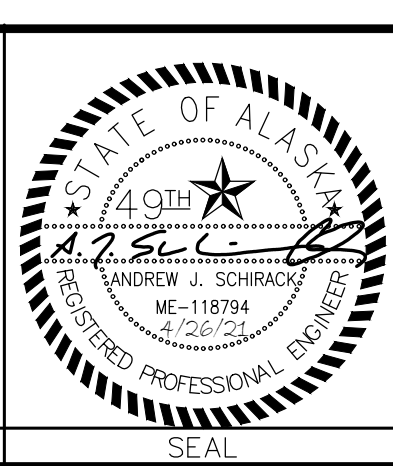
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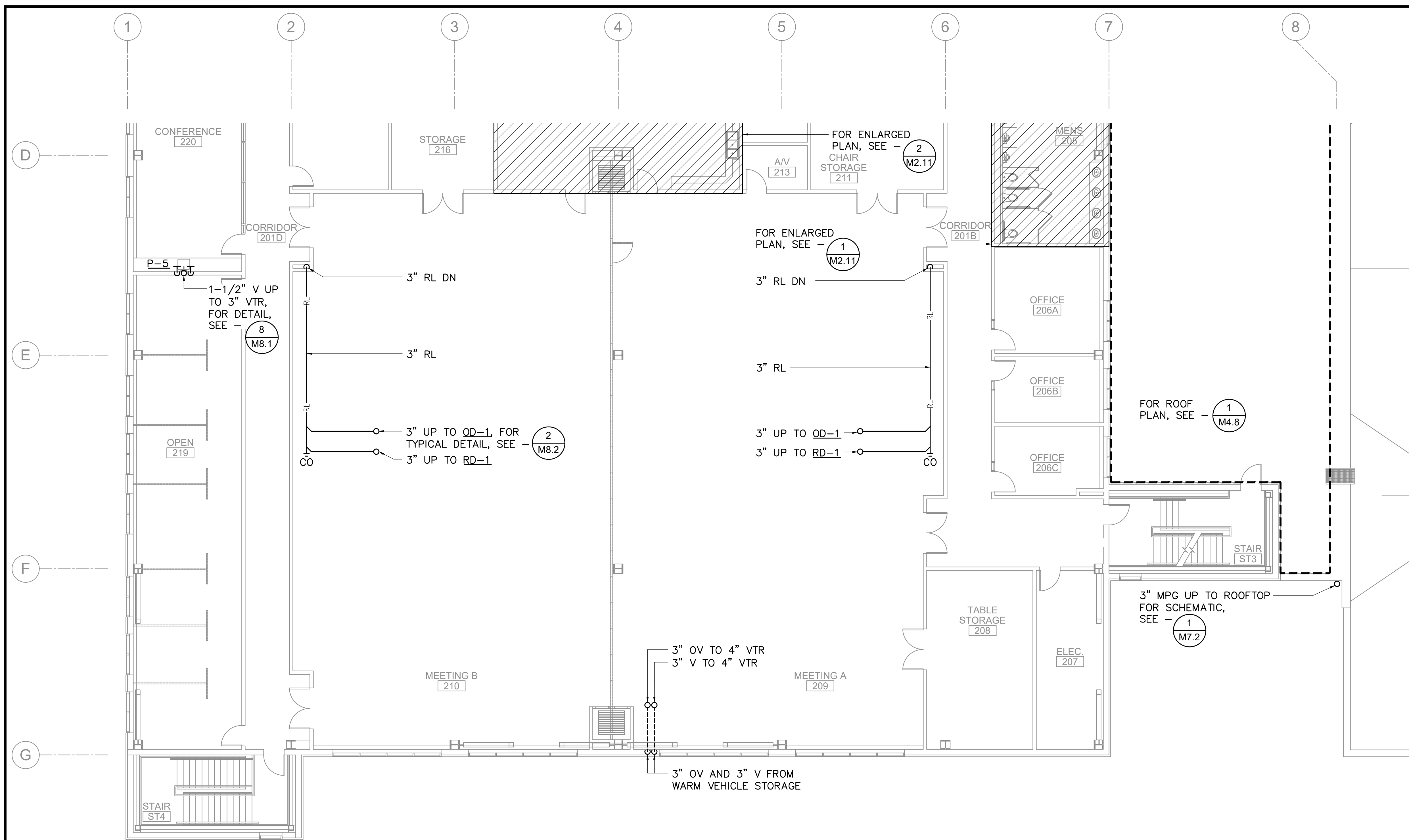
**MEZZANINE - SOUTH
PLUMBING PLAN**

DATE: APRIL 2021 GRID: SW 2431

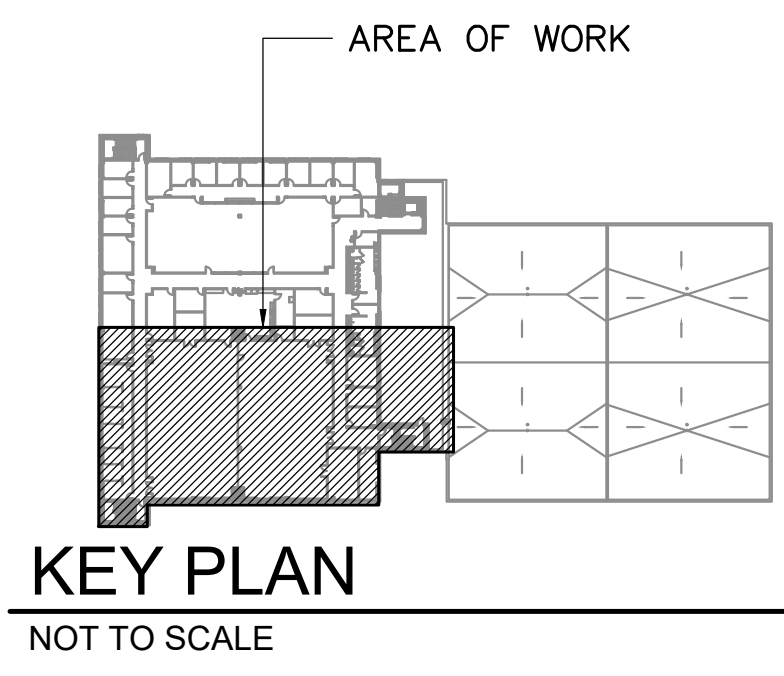
PROJ. ID.: WW.H7775

DWG **M2.6**

SHEET 202 of 288



1 SECOND FLOOR - SOUTH - PLUMBING PLAN
M2.8 1/8" = 1'-0"



VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY

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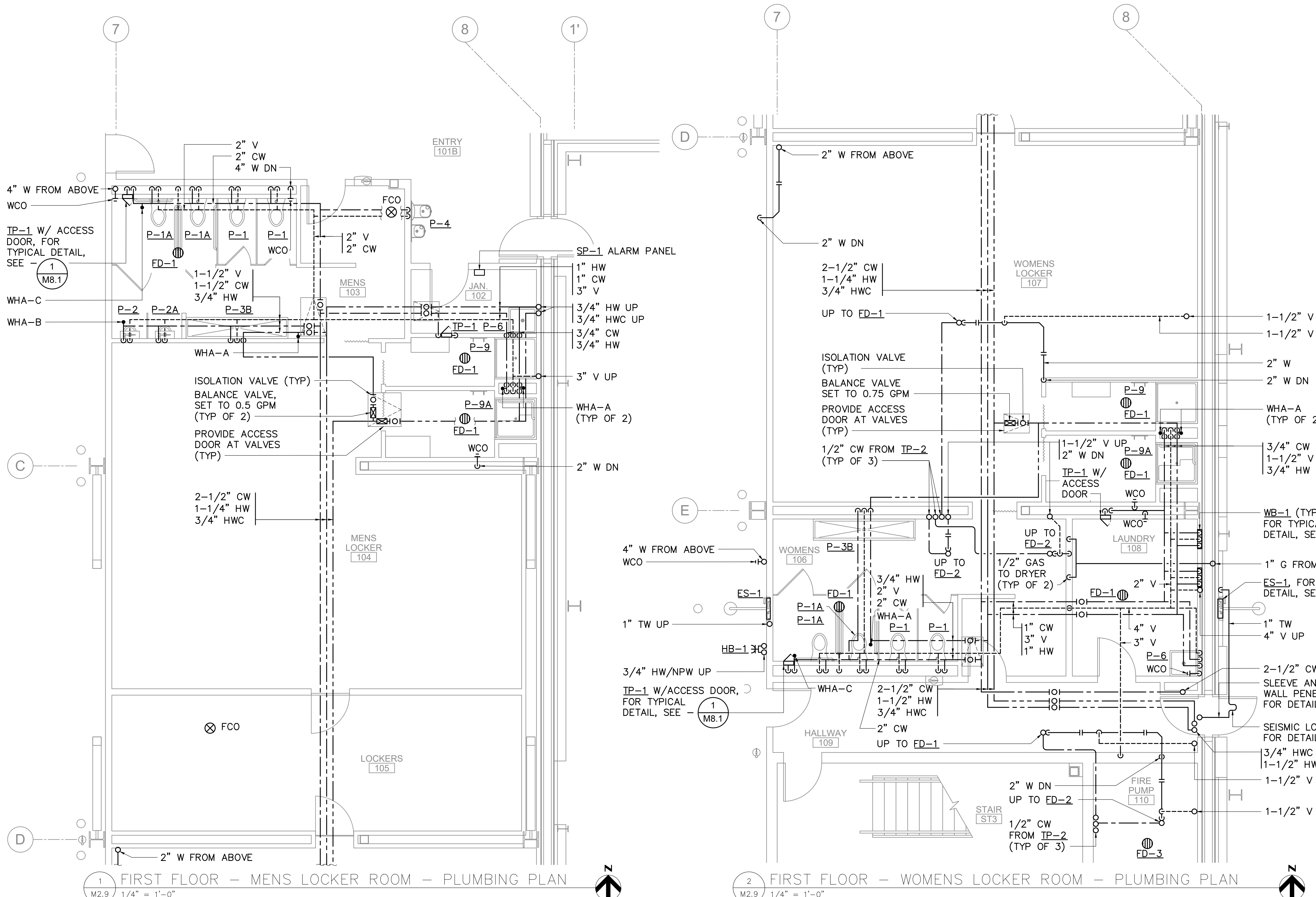
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SECOND FLOOR - SOUTH PLUMBING PLAN
 DWG M2.8
 HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775
 SHEET 204 of 288

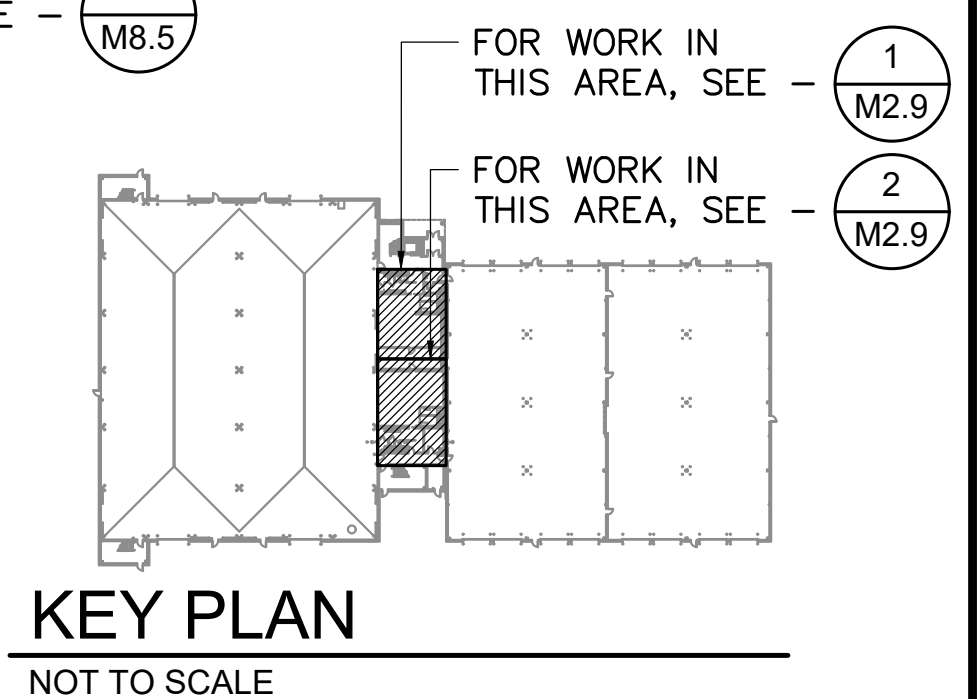


GENERAL NOTES

- A. PROVIDE ACCESS DOORS AT ALL TRAP PRIMERS, WATER HAMMERS, ISOLATION VALVES AND BALANCE VALVES ABOVE GYPSUM CEILINGS. SIZE AS NECESSARY FOR ACCESS, MINIMUM SIZE SHALL BE 12X12.
- B. PROVIDE WALL CLEANOUT ABOVE URINALS IN ACCORDANCE WITH UPC REQUIREMENTS.

1 FIRST FLOOR - MENS LOCKER ROOM - PLUMBING PLAN
M2.9 1/4" = 1'-0"

2 FIRST FLOOR - WOMENS LOCKER ROOM - PLUMBING PLAN
M2.9 1/4" = 1'-0"



VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

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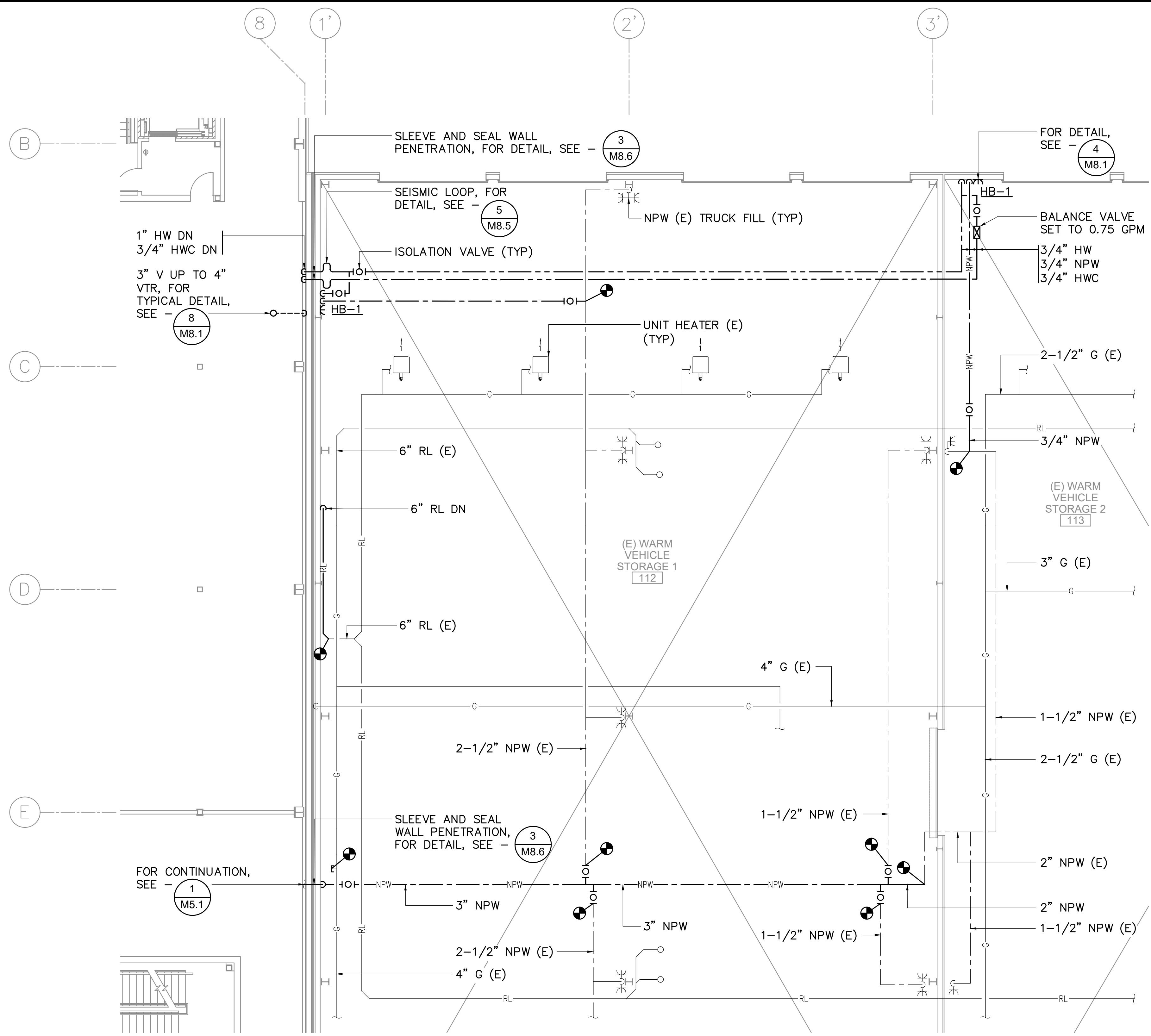
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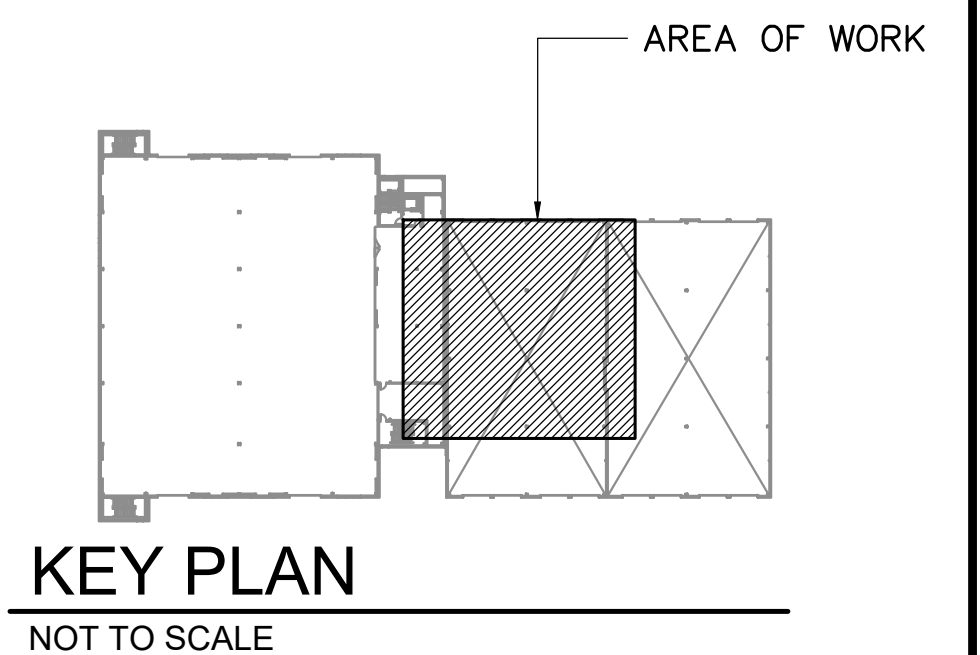
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 KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
FIRST FLOOR ENLARGED PLUMBING PLAN
 DWG M2.9
 HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775
 SHEET 205 of 288



1 EXISTING GARAGE ENLARGED PLUMBING PLAN
M2.10 1/8" = 1'-0"



VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY
REVISIONS			

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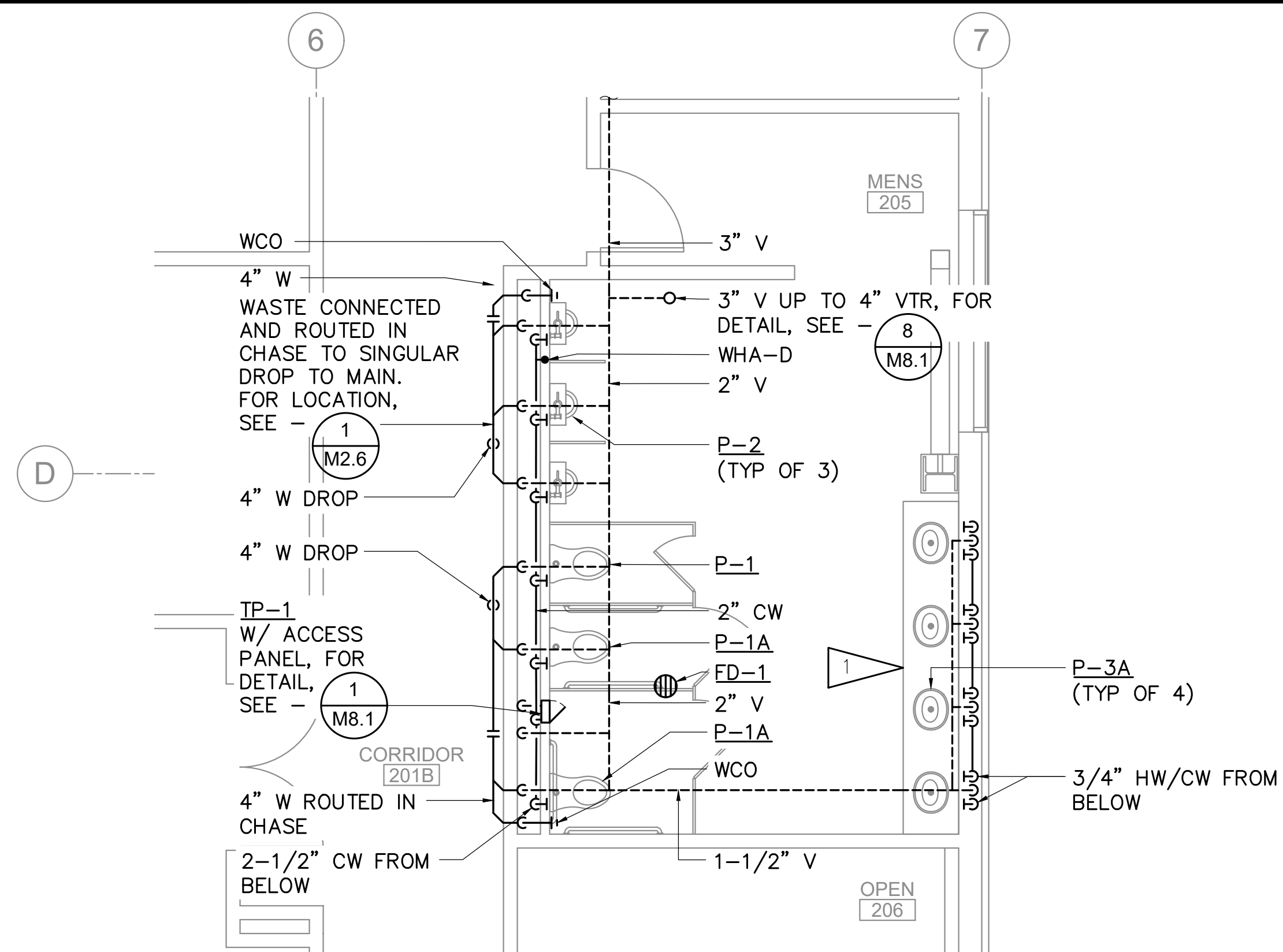
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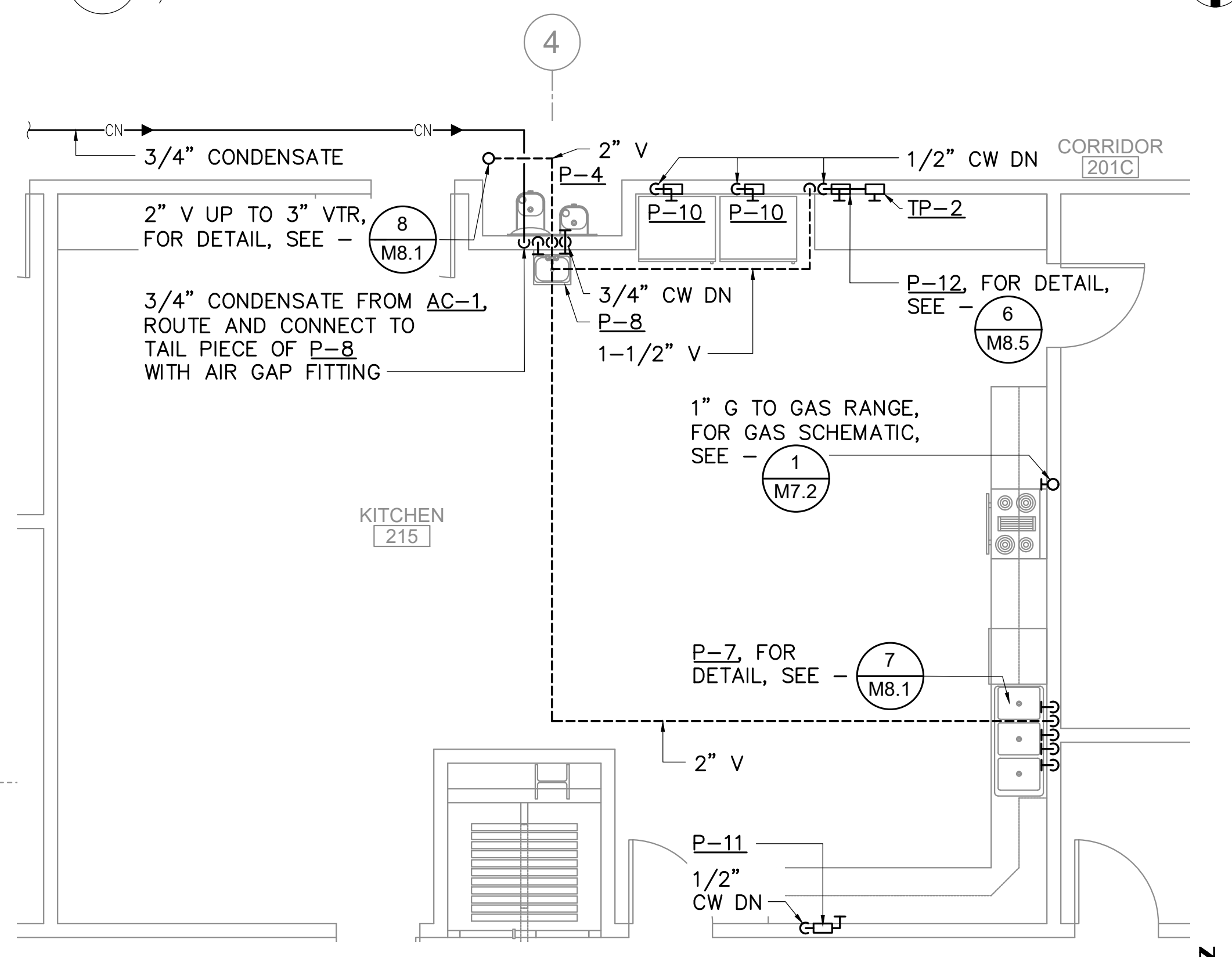
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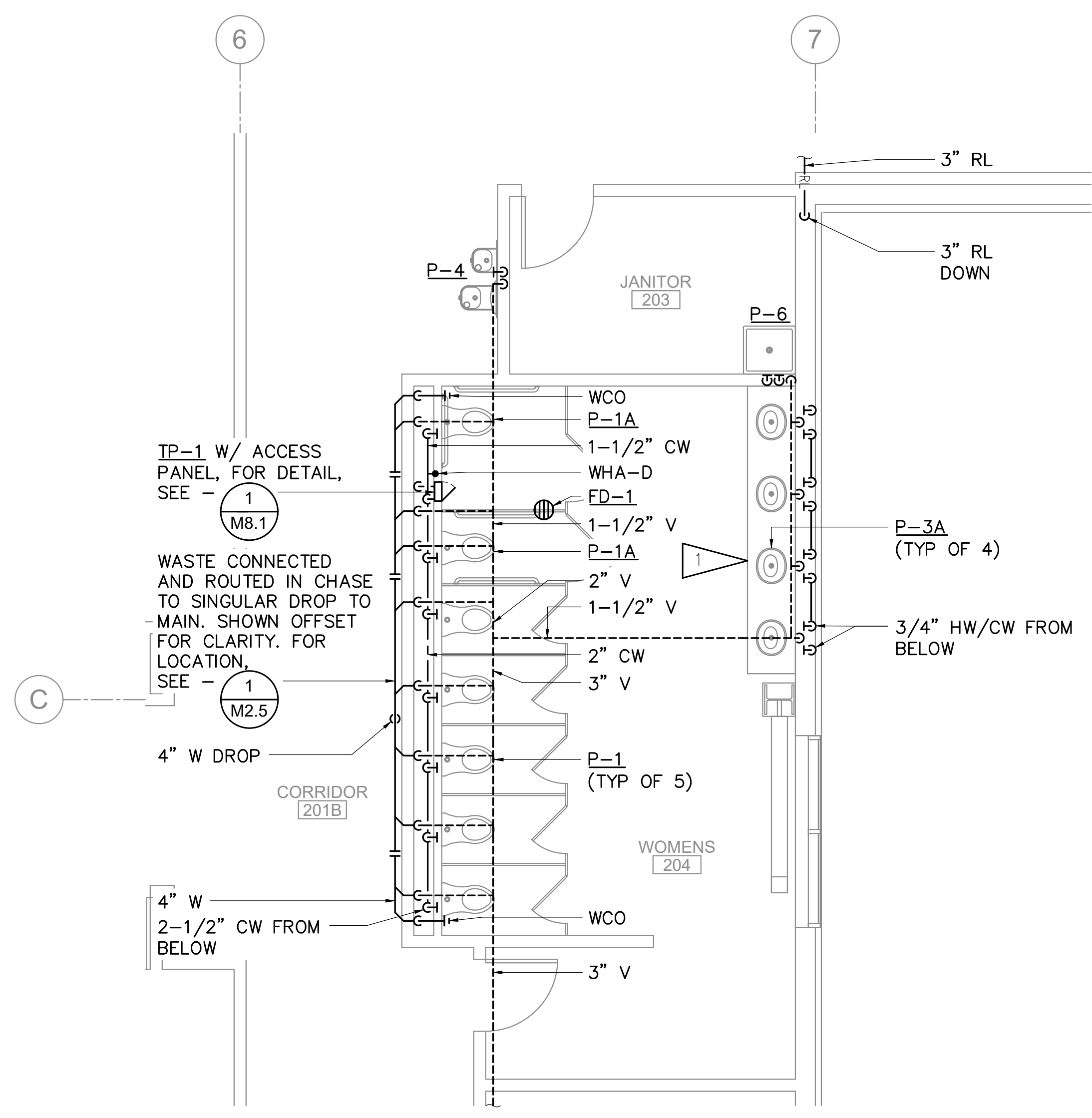
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EXISTING GARAGE ENLARGED PLUMBING PLAN
 DWG M2.10
 HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775
 SHEET 206 of 288



1 SECOND FLOOR - MENS RESTROOM - PLUMBING PLAN
M2.11 1/4" = 1'-0"



2 SECOND FLOOR - KITCHEN - PLUMBING PLAN
M2.11 1/4" = 1'-0"



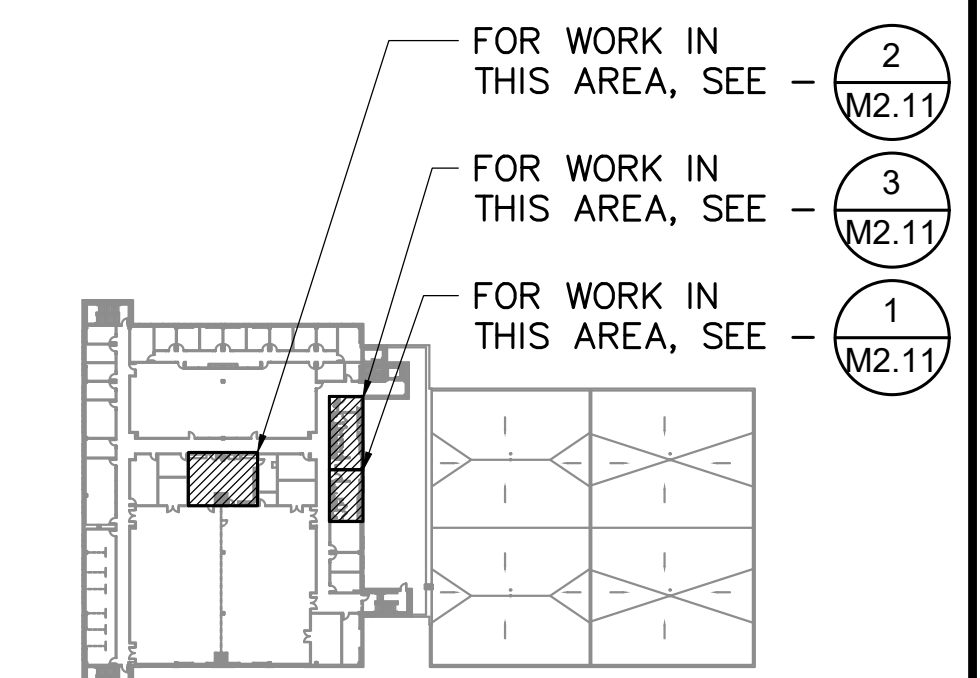
3 SECOND FLOOR - WOMENS RESTROOM - PLUMBING PLAN
M2.11 1/4" = 1'-0"

GENERAL NOTES

- A. PROVIDE ACCESS DOORS AT ALL TRAP PRIMERS, WATER HAMMERS, ISOLATION VALVES AND BALANCE VALVES ABOVE GYPSUM CEILINGS. SIZE AS NECESSARY FOR ACCESS, MINIMUM SIZE SHALL BE 12X12.
- B. PROVIDE WALL CLEANOUT ABOVE URINALS IN ACCORDANCE WITH UPC REQUIREMENTS.

SHEET NOTES

- 1 ROUTE HW AND CW FOR P-3A STACKED IN WALL, FOR PIPING ISOMETRIC, SEE - 6 (M8.2)



KEY PLAN
NOT TO SCALE

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

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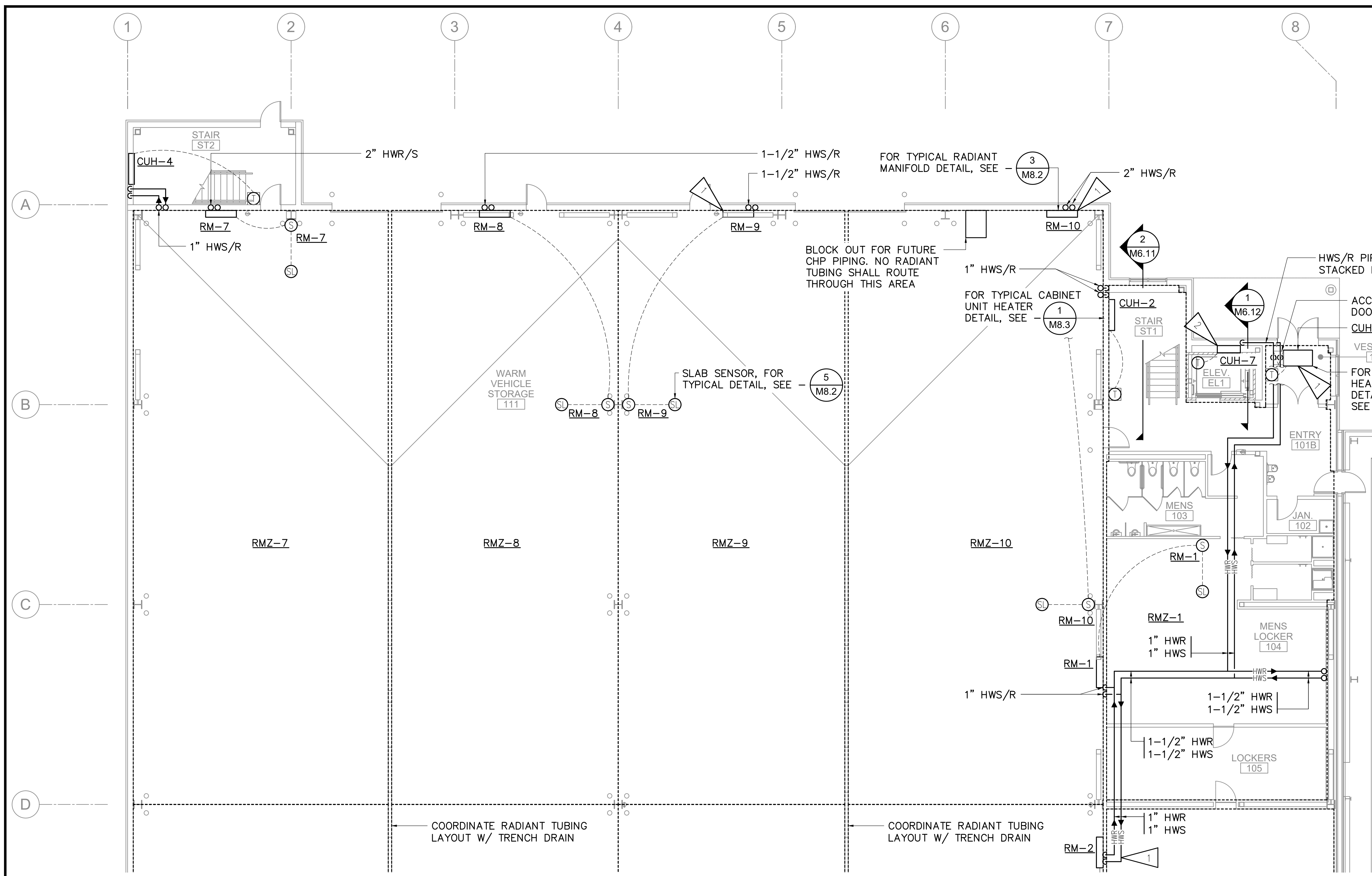
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WATER & WASTEWATER UTILITY
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
SECOND FLOOR ENLARGED PLUMBING PLAN
DWG M2.11
HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775
SHEET 207 of 288

GENERAL NOTES

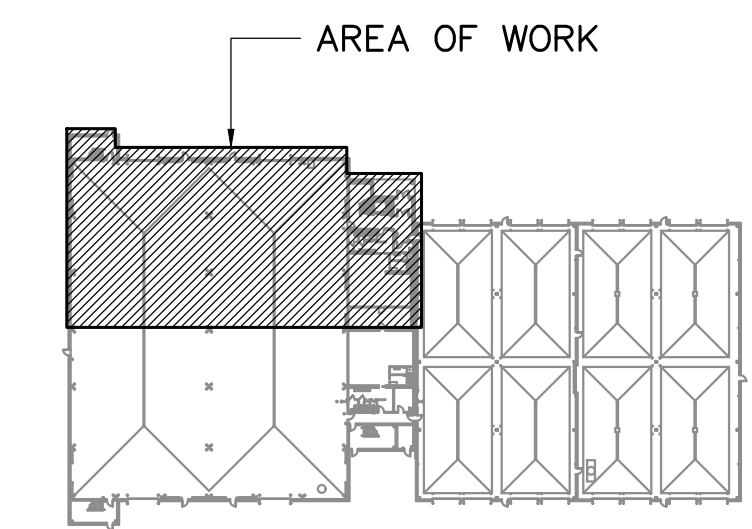
- A. ALL BRANCH PIPING TO BE 3/4" UNLESS INDICATED OTHERWISE.
- B. CONTRACTOR TO COORDINATE RADIANT MANIFOLD INSTALLATION WITH OTHER TRADES. PROVIDE BLOCK OUT IN WALL FRAMING FOR INSTALLATION OF MANIFOLDS.
- C. CONTRACTOR TO COORDINATE WITH OTHER TRADES AND OFFSET RADIANT TUBING AT COLUMNS TO ALLOW FOR BOLLARD ANCHOR INSTALLATION. FOR BOLLARD LOCATION AND ANCHOR DETAILS SEE STRUCTURAL PLANS.
- D. FOR BRANCH PIPE SIZES TO UNIT HEATERS AND CABINET UNIT HEATERS, SEE M0.3.
- E. PIPING IN EXTERIOR WALL IS WITHIN THE BUILDING ENVELOPE. SEE ARCH PLANS FOR WALL DETAILS.
- F. CONTRACTOR TO SLEEVE ALL RADIANT TUBING AT EXPANSION AND CONTROL JOINTS. FOR DETAILS, SEE - (4) M8.2

SHEET NOTES

- 1 PROVIDE 3-WAY CONTROL VALVE.
- 2 INSTALL CABINET UNIT HEATER IN PIT. HWS/R PIPING TO BE ROUTED THROUGH WALL TO UNIT. PROVIDE PVC JACKETING ON PIPING INSULATION. COORDINATE WITH SP-1, MOUNT THERMOSTAT 6' ABOVE FINISH FLOOR OF ENTRY 101B.



1 FIRST FLOOR - NORTH - HEATING PLAN
M3.1 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

REV	DATE	DESCRIPTION	BY

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2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

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 Corporate No.: AECC542
 RSA Job No.: L9266
 CONSULTANT

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 4 QTH
 ANDREW J. SCHIRACK
 ME-119794
 4/26/24
 REGISTERED PROFESSIONAL ENGINEER
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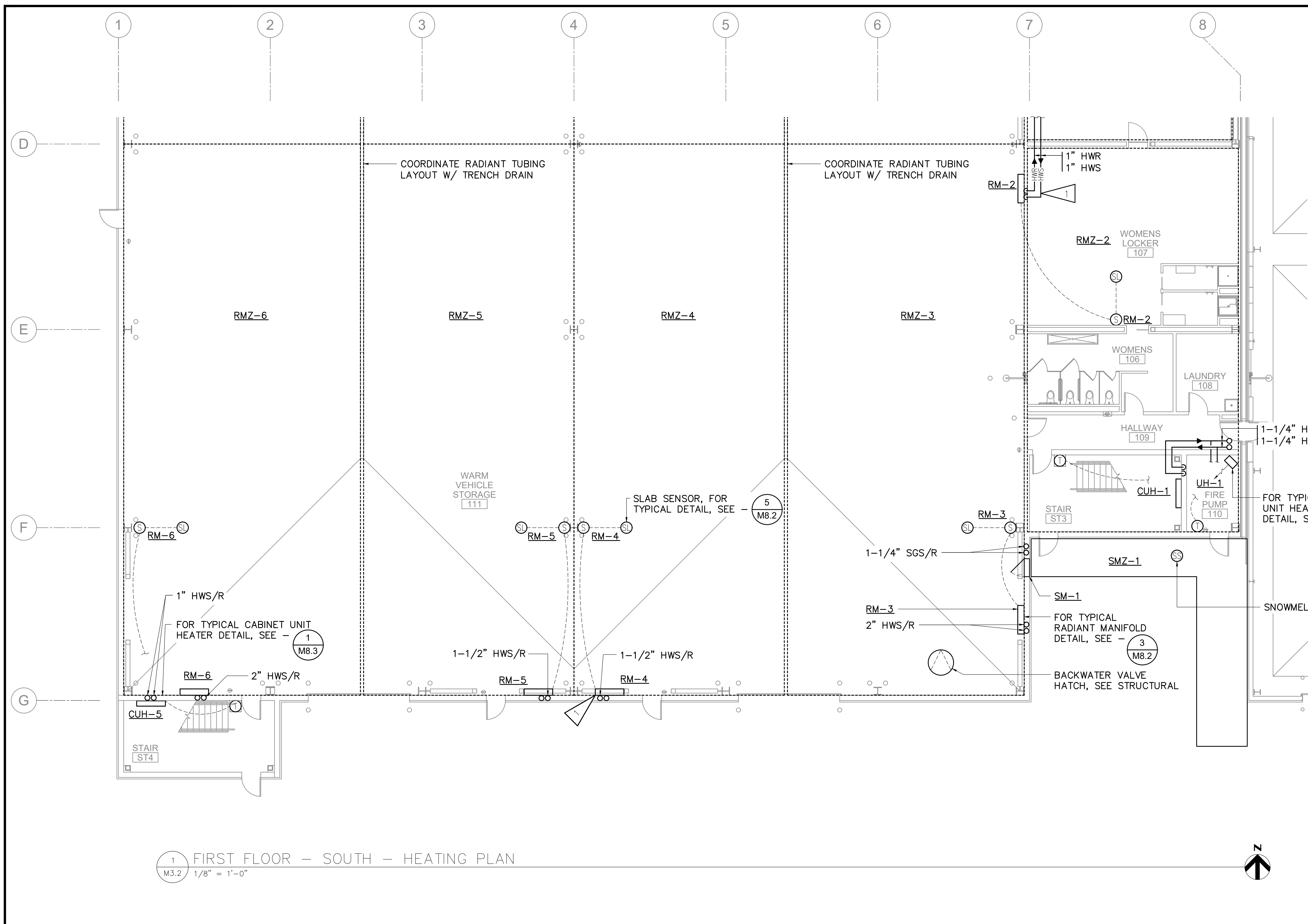
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

FIRST FLOOR - NORTH HEATING PLAN

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG **M3.1**

SHEET 208 of 288



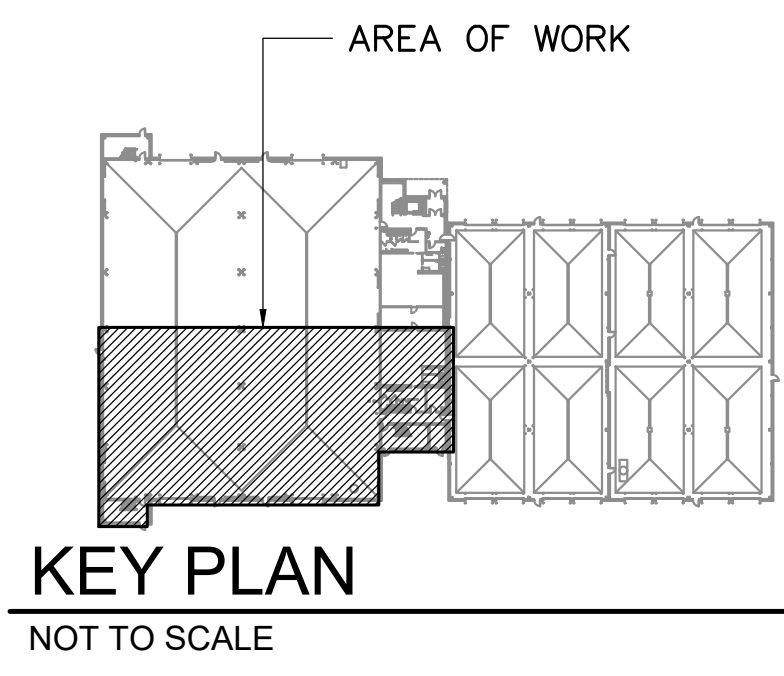
GENERAL NOTES

- A. ALL BRANCH PIPING TO BE 3/4" UNLESS INDICATED OTHERWISE.
- B. CONTRACTOR TO COORDINATE RADIANT MANIFOLD INSTALLATION WITH OTHER TRADES. PROVIDE BLOCK OUT IN WALL FRAMING FOR INSTALLATION OF MANIFOLDS.
- C. CONTRACTOR TO COORDINATE WITH OTHER TRADES AND OFFSET RADIANT TUBING AT COLUMNS TO ALLOW FOR BOLLARD ANCHOR INSTALLATION. FOR BOLLARD LOCATION AND ANCHOR DETAILS SEE STRUCTURAL PLANS.
- D. FOR BRANCH PIPE SIZES TO UNIT HEATERS AND CABINET UNIT HEATERS, SEE M0.3.
- E. PIPING IN EXTERIOR WALL IS WITHIN THE BUILDING ENVELOPE. SEE ARCH PLANS FOR WALL DETAILS.
- F. CONTRACTOR TO SLEEVE ALL RADIANT TUBING AT EXPANSION AND CONTROL JOINTS. FOR DETAIL, SEE - (4) M8.2

SHEET NOTES

- (1) M8.3 FOR TYPICAL CABINET UNIT HEATER DETAIL, SEE - (1) M8.3
- (2) M8.3 FOR TYPICAL UNIT HEATER DETAIL, SEE - (2) M8.3
- (3) M8.2 FOR TYPICAL RADIANT MANIFOLD DETAIL, SEE - (3) M8.2
- (4) M8.2 PROVIDE 3-WAY CONTROL VALVE.
- (5) M8.2 SLAB SENSOR, FOR TYPICAL DETAIL, SEE - (5) M8.2

(1) M3.2 FIRST FLOOR - SOUTH - HEATING PLAN
1/8" = 1'-0"



REV	DATE	DESCRIPTION	BY

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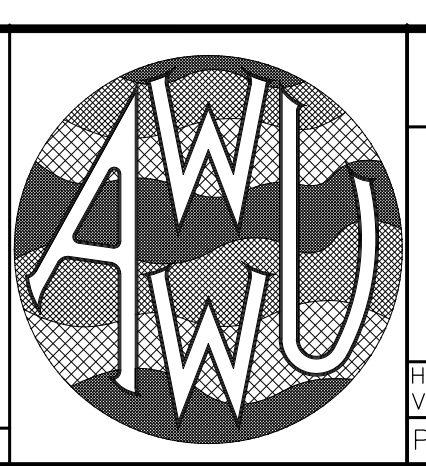
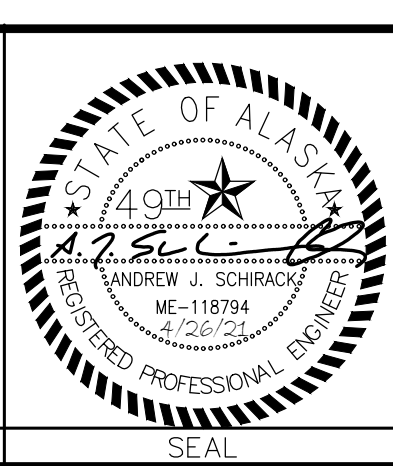
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

FIRST FLOOR - SOUTH HEATING PLAN

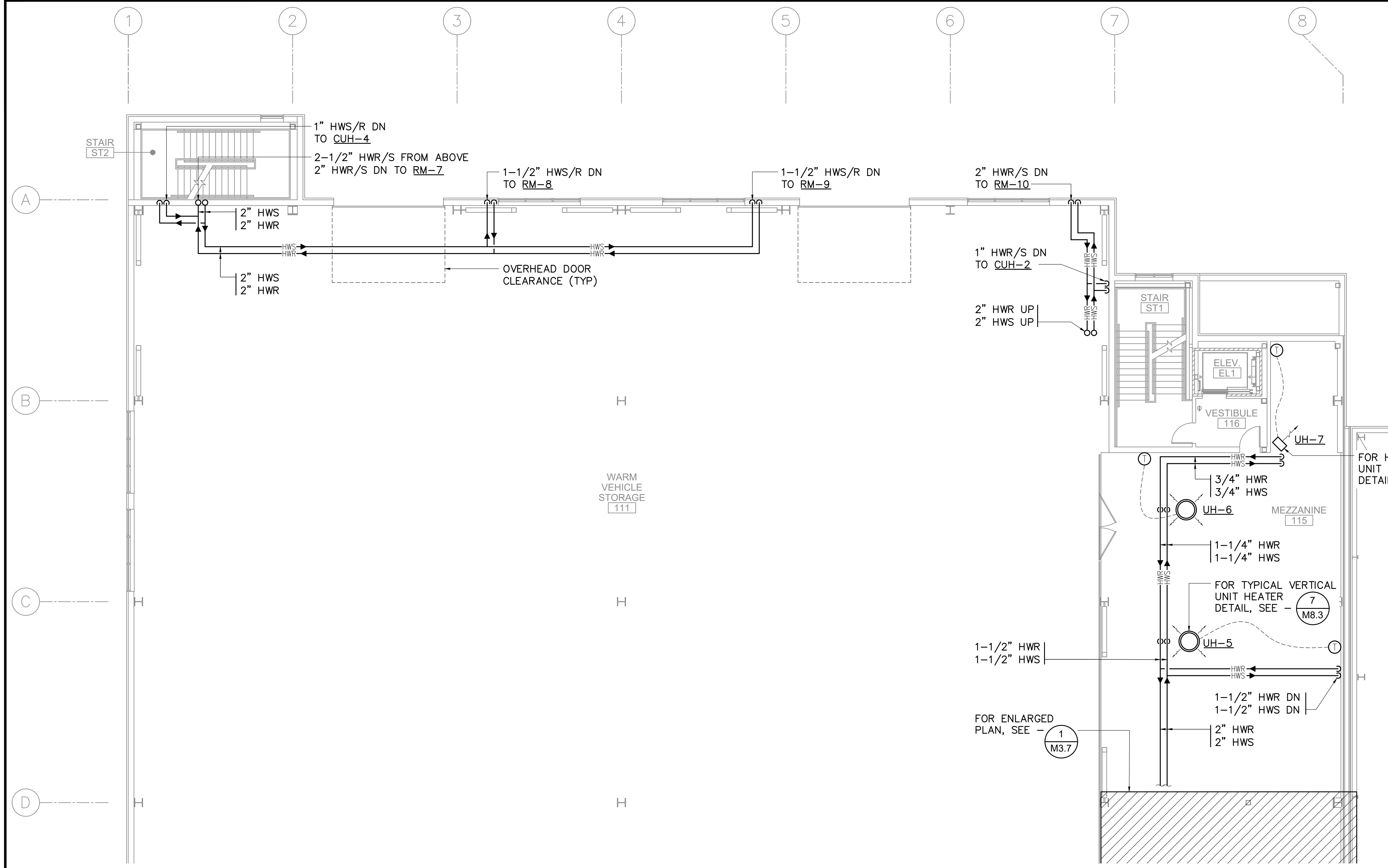
HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG **M3.2**

SHEET 209 of 288

GENERAL NOTES

- A. ALL BRANCH PIPING TO BE 3/4" UNLESS INDICATED OTHERWISE.
- B. CONTRACTOR TO COORDINATE RADIANT MANIFOLD INSTALLATION WITH OTHER TRADES. PROVIDE BLOCK OUT IN WALL FRAMING FOR INSTALLATION OF MANIFOLDS AS INDICATED.
- C. FOR BRANCH PIPE SIZES TO UNIT HEATERS AND CABINET UNIT HEATERS, SEE M0.3.

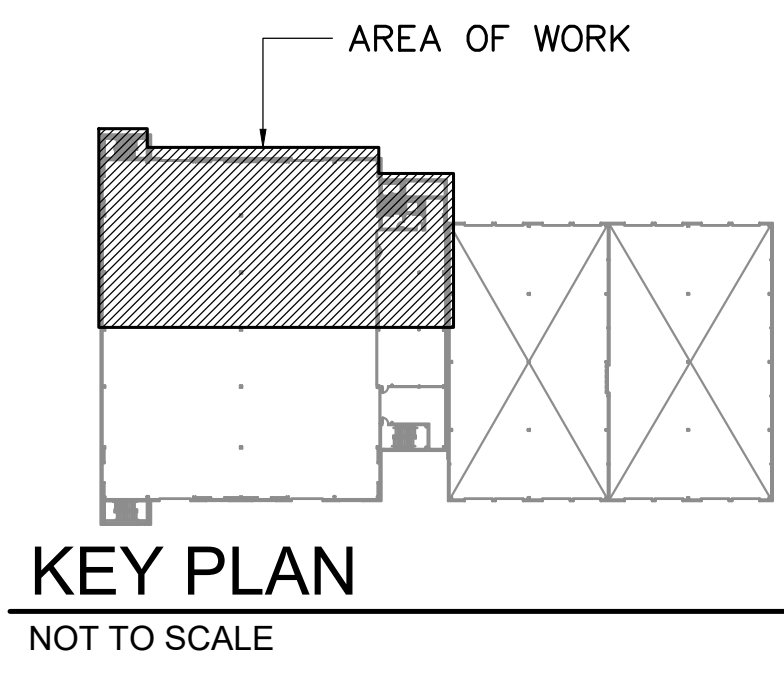


FOR HORIZONTAL UNIT HEATER DETAIL, SEE - (7) M8.3

FOR TYPICAL VERTICAL UNIT HEATER DETAIL, SEE - (7) M8.3

FOR ENLARGED PLAN, SEE - (1) M3.7

(1) MEZZANINE - NORTH - HEATING PLAN
M3.3 1/8" = 1'-0"



REV	DATE	DESCRIPTION	BY

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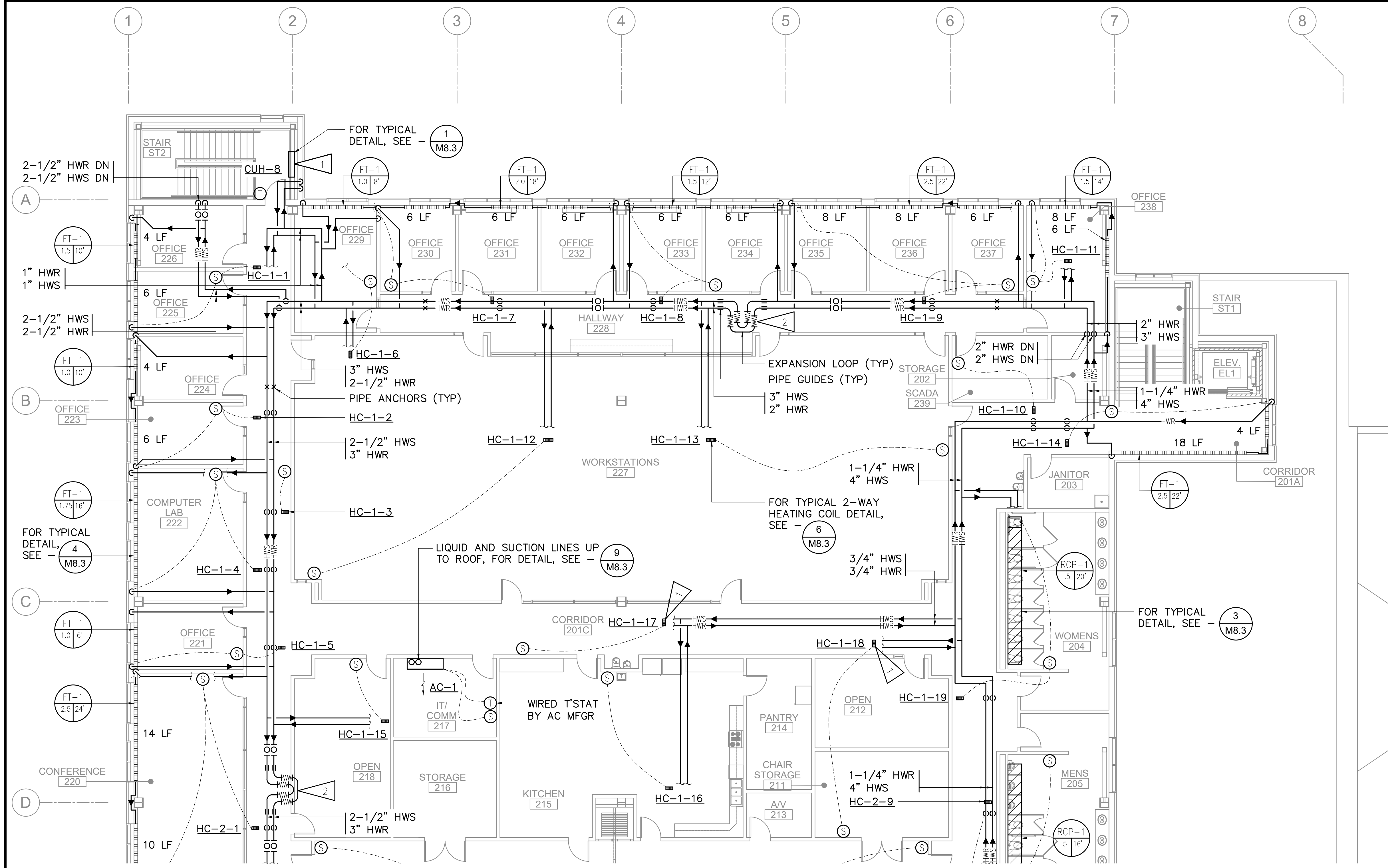
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 KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
MEZZANINE - NORTH HEATING PLAN
 DWG M3.3
 HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775
 SHEET 210 of 288

GENERAL NOTES

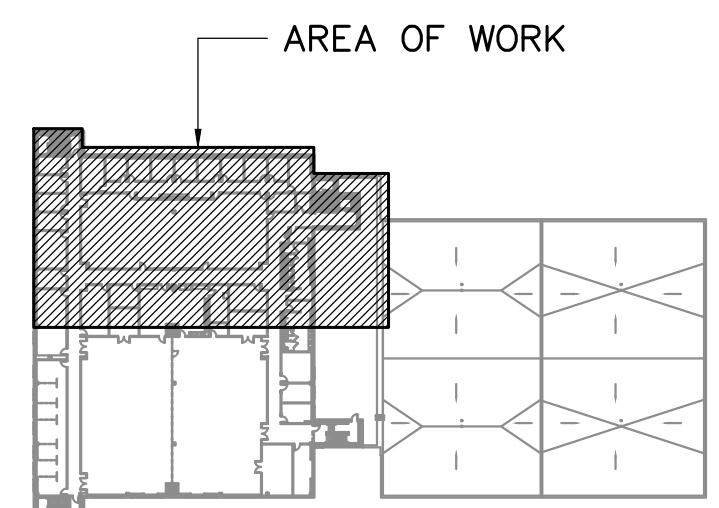
- A. ALL BRANCH PIPING TO BE 3/4" UNLESS INDICATED OTHERWISE.
- B. ALL VAV BOXES AND FINNED TUBE HAVE 2-WAY CONTROL VALVES UNLESS INDICATED OTHERWISE. PROVIDE 3-WAY VALVES WHERE INDICATED TO ACHIEVE MINIMUM PUMP FLOW.
- C. PROVIDE ACCESS DOORS FOR ALL VALVES LOCATED ABOVE GYPSUM CEILINGS, AS REQUIRED BY SPECIFICATIONS.
- D. FOR BRANCH PIPE SIZES TO UNIT HEATERS AND CABINET UNIT HEATERS, SEE M0.3.
- E. PROVIDE NESTED EXPANSION LOOPS AT ALL LOCATIONS.

SHEET NOTES

- 1 PROVIDE 3-WAY CONTROL VALVE, FOR DETAIL, SEE - 5 M8.3
- 2 INSTALL GUIDES AND SUPPORTS PER MFRG INSTRUCTIONS.



1 SECOND FLOOR - NORTH - HEATING PLAN
M3.5 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

REV	DATE	DESCRIPTION	BY

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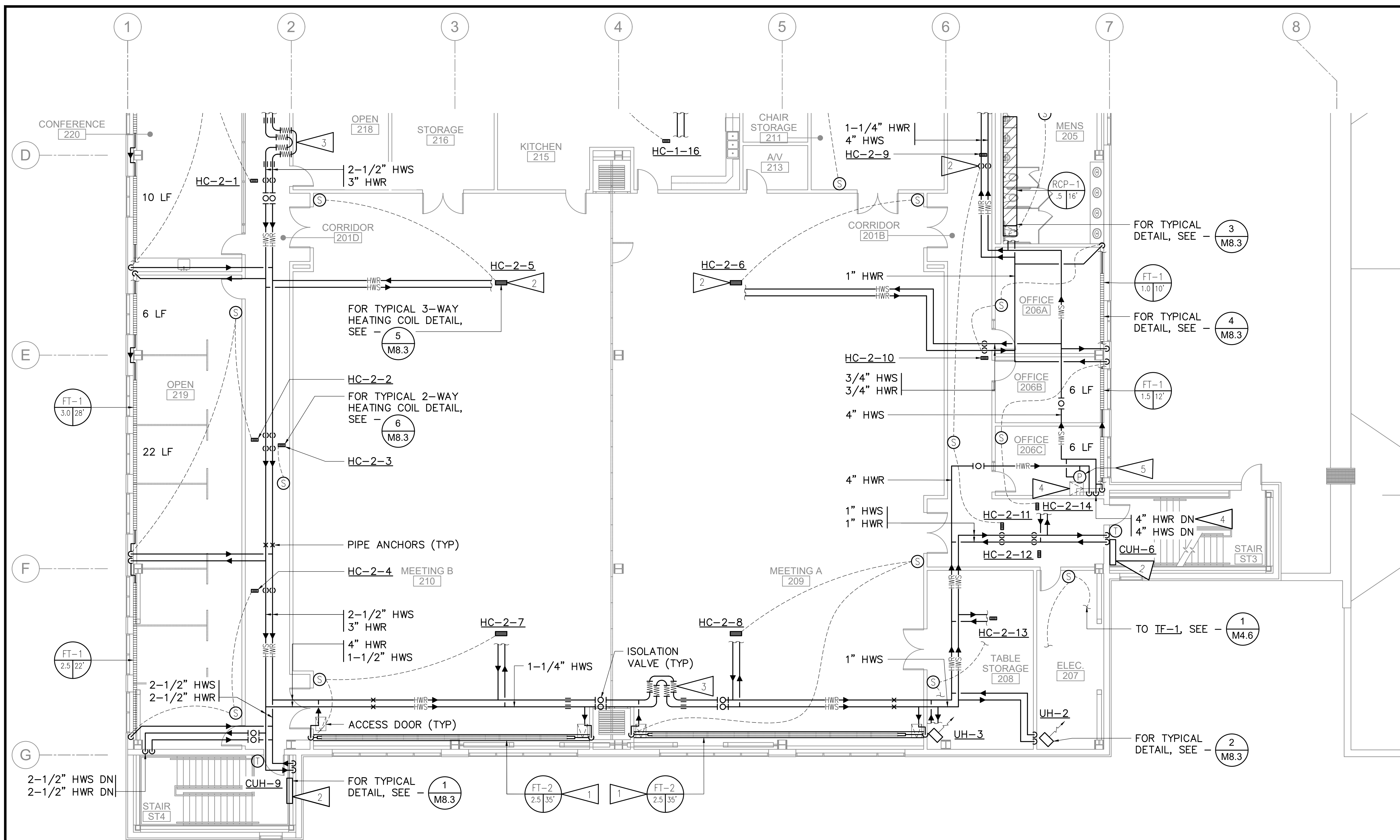
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

SECOND FLOOR - NORTH HEATING PLAN

DWG M3.5

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775

SHEET 212 of 288



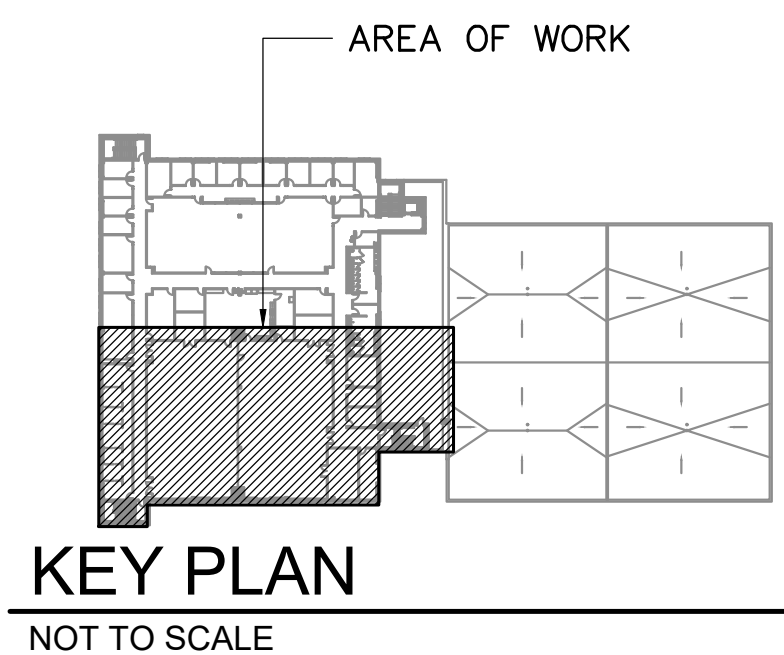
GENERAL NOTES

- A. ALL BRANCH PIPING TO BE 3/4" UNLESS INDICATED OTHERWISE.
- B. ALL VAV BOXES AND FINNED TUBE HAVE 2-WAY CONTROL VALVES UNLESS INDICATED OTHERWISE. PROVIDE 3-WAY VALVES WHERE INDICATED TO ACHIEVE MINIMUM PUMP FLOW.
- C. PROVIDE ACCESS DOORS FOR ALL VALVES LOCATED ABOVE GYPSUM CEILINGS, AS REQUIRED BY SPECIFICATIONS.
- D. FOR BRANCH PIPE SIZES TO UNIT HEATERS AND CABINET UNIT HEATERS, SEE M0.3.
- E. PROVIDE NESTED EXPANSION LOOPS AT ALL LOCATIONS.

SHEET NOTES

- 1 PEDESTAL MOUNTED FINNED TUBE. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. FOR DETAIL, SEE - (4) M8.6
- 2 PROVIDE 3-WAY CONTROL VALVE, FOR DETAIL, SEE - (5) M8.3
- 3 INSTALL GUIDES AND SUPPORTS PER MFGR INSTRUCTIONS.
- 4 PROVIDE AUTOMATIC AIR VENT AT HIGH POINTS AND 2'X2'X6" CATCH PAN.
- 5 HEATING SYSTEM DIFFERENTIAL PRESSURE SENSOR.

1 SECOND FLOOR - SOUTH - HEATING PLAN
M3.6 1/8" = 1'-0"



REV	DATE	DESCRIPTION	BY

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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

SECOND FLOOR - SOUTH HEATING PLAN

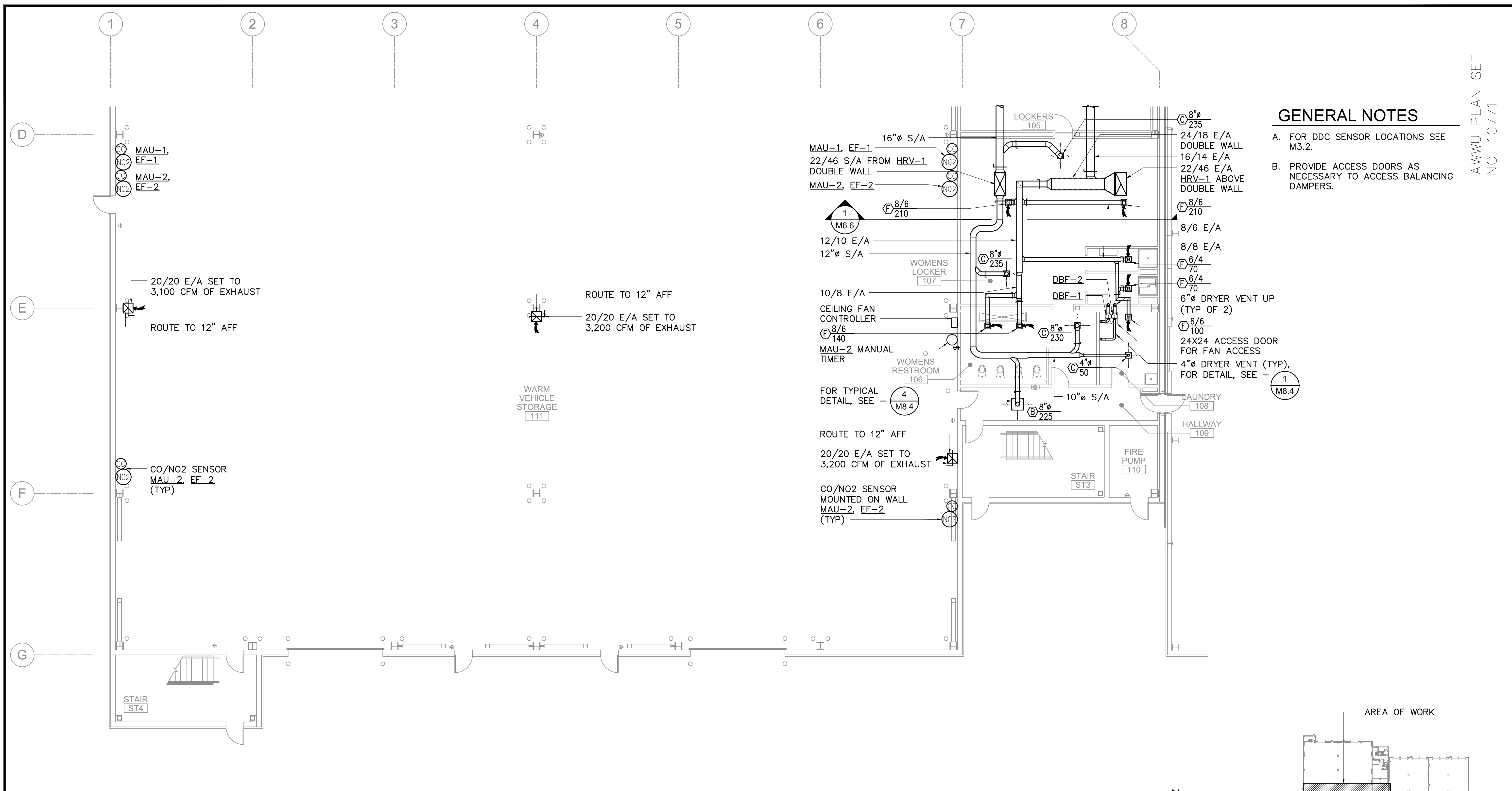
DWG **M3.6**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775

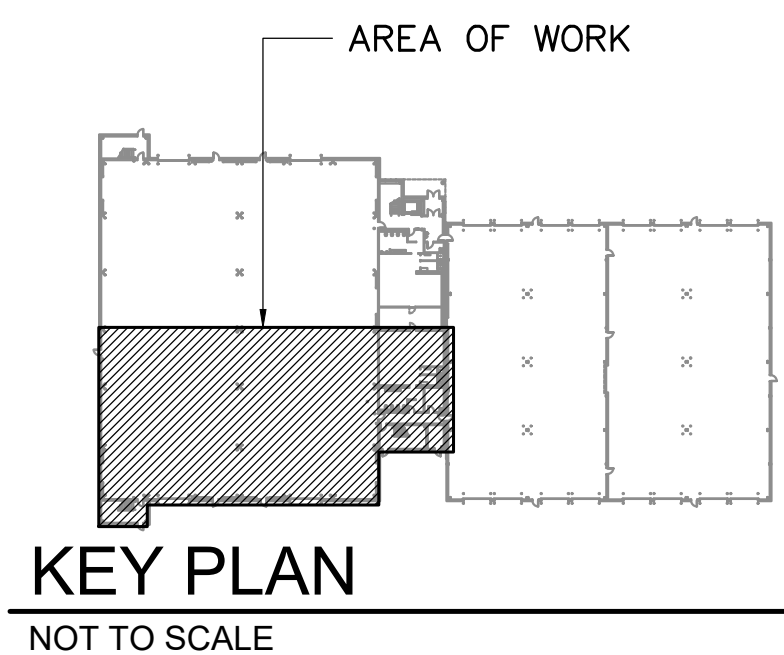
SHEET 213 of 288

GENERAL NOTES

- A. FOR DDC SENSOR LOCATIONS SEE M3.2.
- B. PROVIDE ACCESS DOORS AS NECESSARY TO ACCESS BALANCING DAMPERS.



1 FIRST FLOOR - SOUTH - VENTILATION PLAN
M4.2 1/8" = 1'-0"



VERIFY SCALE			
REV	DATE	DESCRIPTION	BY

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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

FIRST FLOOR - SOUTH VENTILATION PLAN

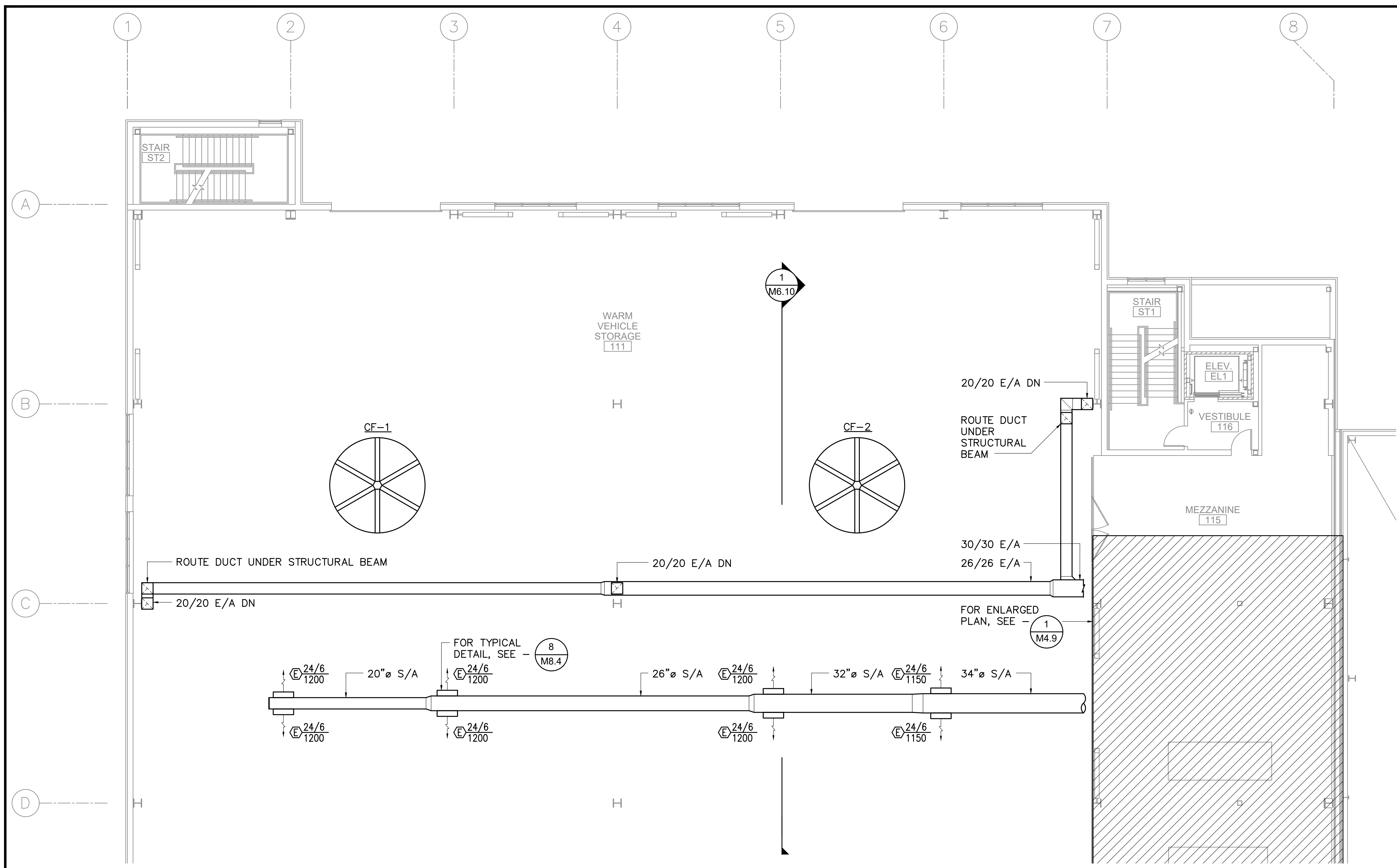
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 VERT SCALE: N/A
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DWG **M4.2**

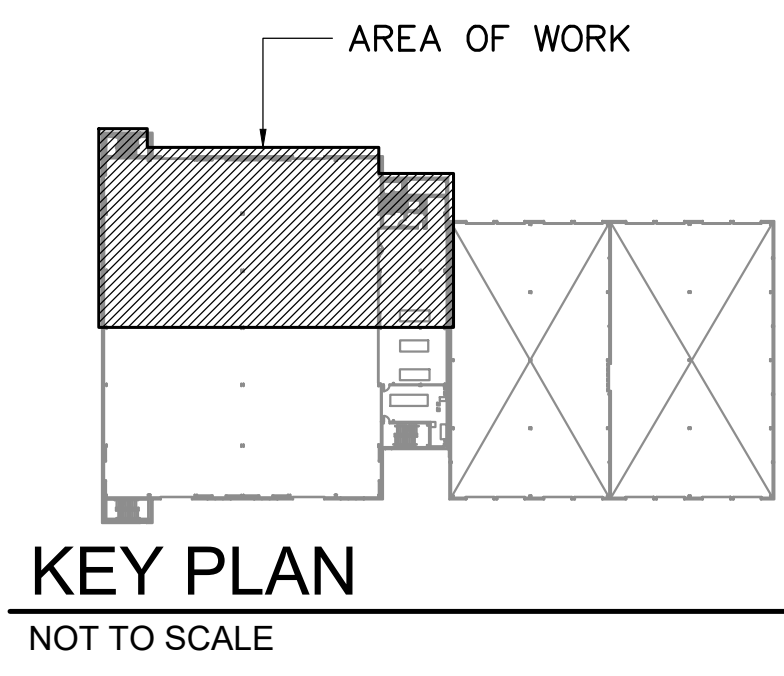
SHEET 216 of 288

GENERAL NOTES

A. FOR DDC SENSOR LOCATIONS SEE M3.1.



1 MEZZANINE - NORTH - VENTILATION PLAN
M4.3 1/8" = 1'-0"



VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY

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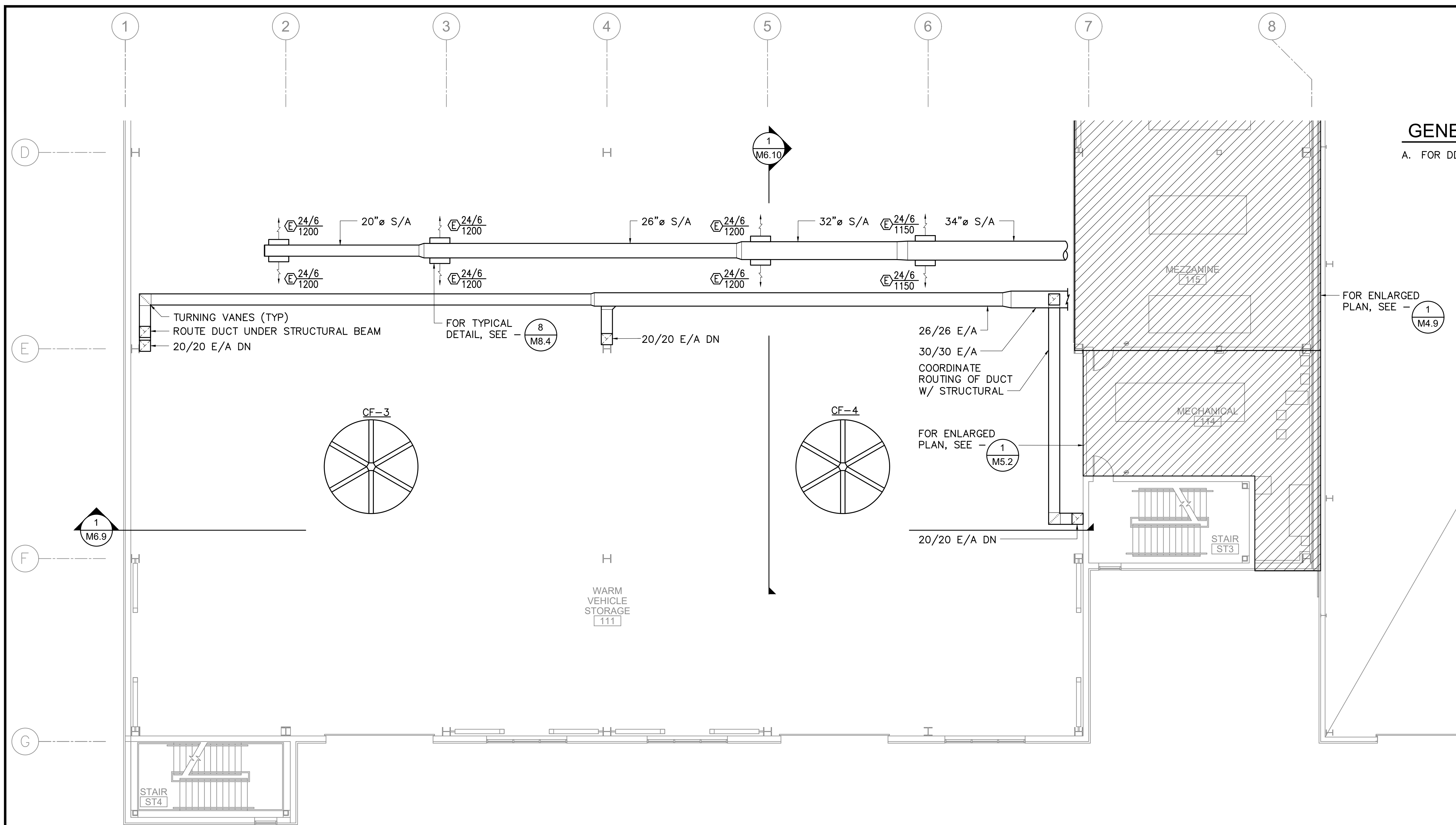
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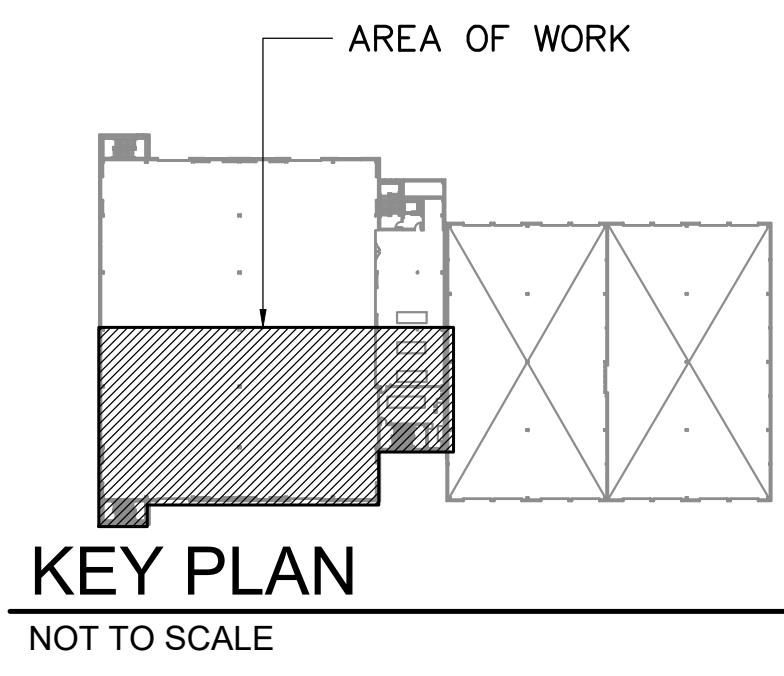
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MEZZANINE - NORTH VENTILATION PLAN
 DWG M4.3
 HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775
 SHEET 217 of 288

GENERAL NOTES

A. FOR DDC SENSOR LOCATIONS SEE M3.1.



1 MEZZANINE - SOUTH - VENTILATION PLAN
M4.4 1/8" = 1'-0"



VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

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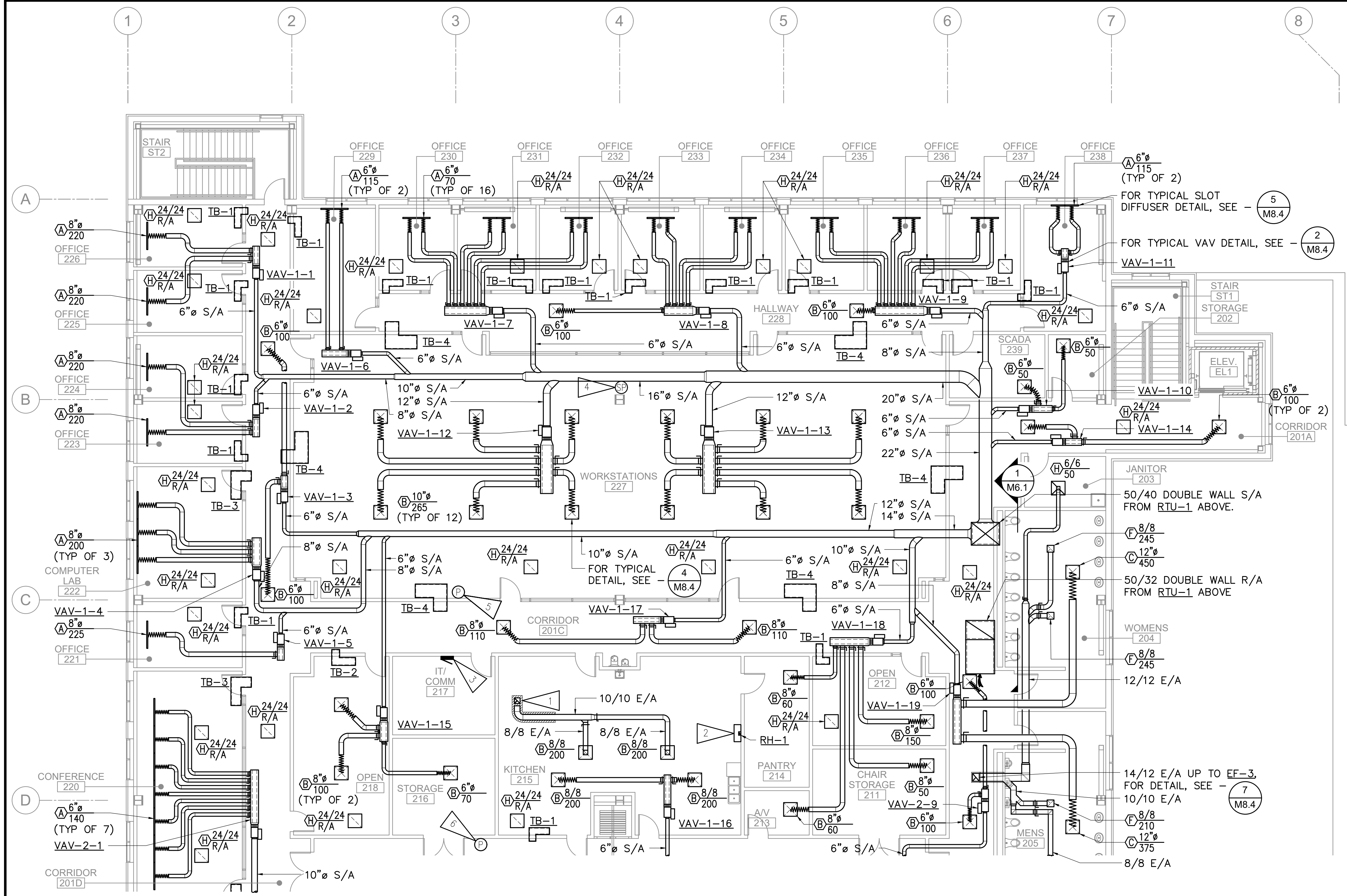
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
MEZZANINE - SOUTH VENTILATION PLAN
M4.4
HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775
SHEET 218 of 288

GENERAL NOTES

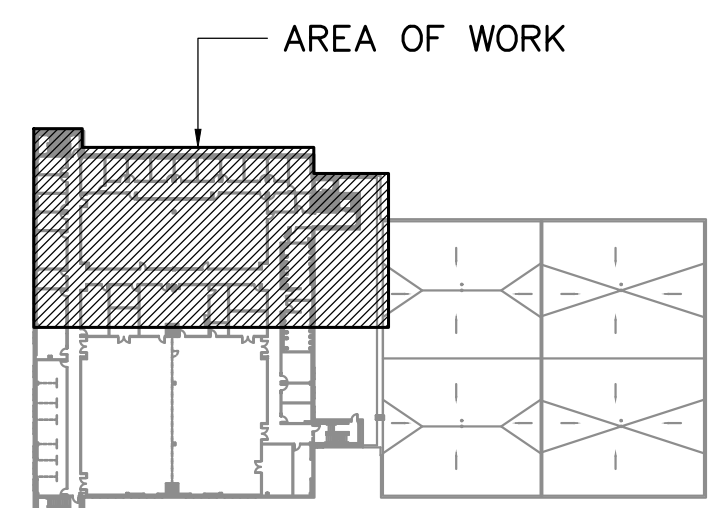
- A. FOR DDC SENSOR LOCATIONS SEE M3.1.
- B. PROVIDE ACCESS DOORS AS INDICATED, AND AS NECESSARY TO ACCESS BALANCING DAMPERS.
- C. ALL DIFFUSERS ARE TO BE CONFIGURED WITH 4-WAY DISCHARGE UNLESS INDICATED OTHERWISE.
- D. SLOT DIFFUSERS ALONG PERIMETER SHALL BE SET TO DISCHARGE ACROSS CEILING.
- E. FOR VAV PLENUM SIZES, REFER TO VAV SCHEDULE. SEE - M0.6.

SHEET NOTES

- 1 10/10 UP TO EF-4 ON ROOF. FOR DETAIL, SEE - M8.4
- 2 7" E/A UP TO ROOF. FOR DETAIL, SEE - M8.4
- 3 DDC PANEL.
- 4 DUCT STATIC PRESSURE SENSOR.
- 5 INDOOR PRESSURE REFERENCE POINT, RTU-1.
- 6 INDOOR PRESSURE REFERENCE POINT, RTU-2.



1 SECOND FLOOR - NORTH - VENTILATION PLAN
M4.5 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

REV	DATE	DESCRIPTION	BY

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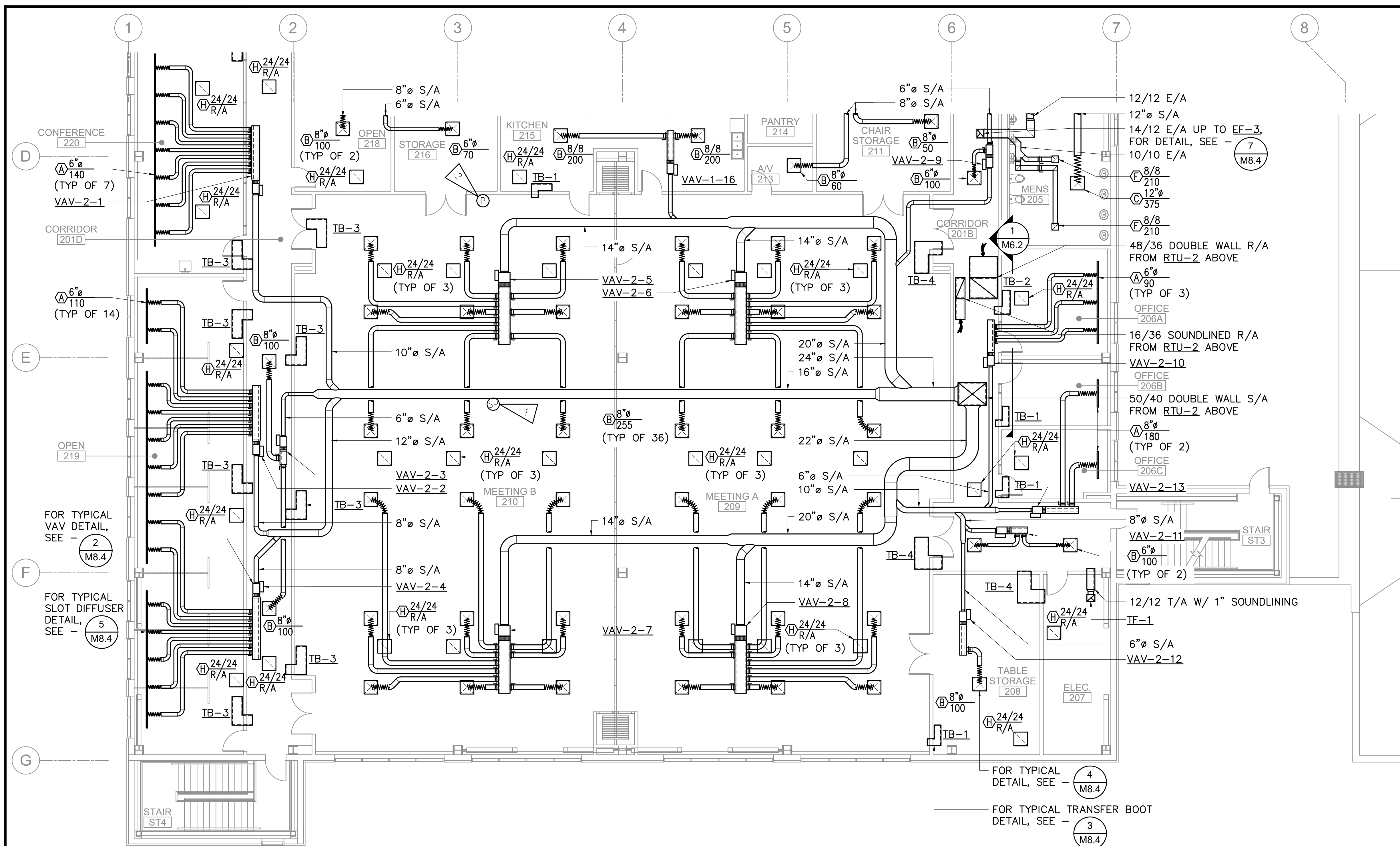
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

**SECOND FLOOR - NORTH
 VENTILATION PLAN**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG
M4.5
 SHEET 219 of 288



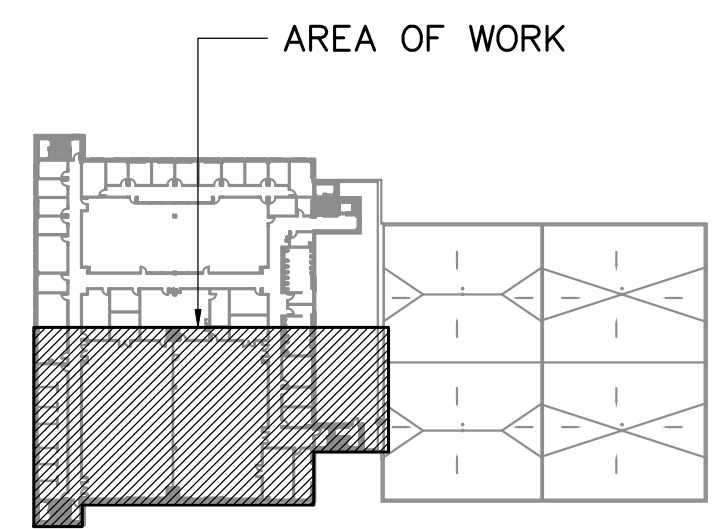
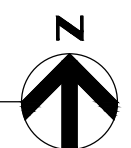
GENERAL NOTES

- A. FOR DDC SENSOR LOCATIONS SEE M3.1.
- B. PROVIDE ACCESS DOORS AS INDICATED, AND AS NECESSARY TO ACCESS BALANCING DAMPERS.
- C. ALL DIFFUSERS ARE TO BE CONFIGURED WITH 4-WAY DISCHARGE UNLESS INDICATED OTHERWISE.
- D. SLOT DIFFUSERS ALONG PERIMETER SHALL BE SET TO DISCHARGE ACROSS CEILING.
- E. FOR VAV PLENUM SIZES, REFER TO VAV SCHEDULE. SEE - M0.6.

SHEET NOTES

- 1 DUCT STATIC PRESSURE SENSOR.
- 2 INDOOR PRESSURE REFERENCE POINT, RTU-2.

1 SECOND FLOOR - SOUTH - VENTILATION PLAN
M4.6 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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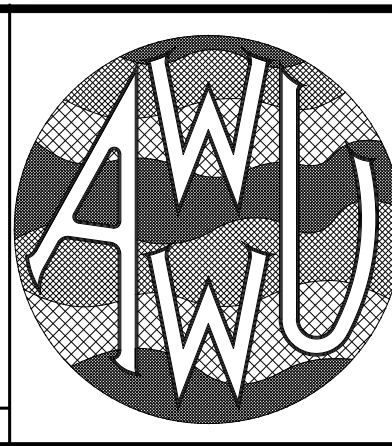
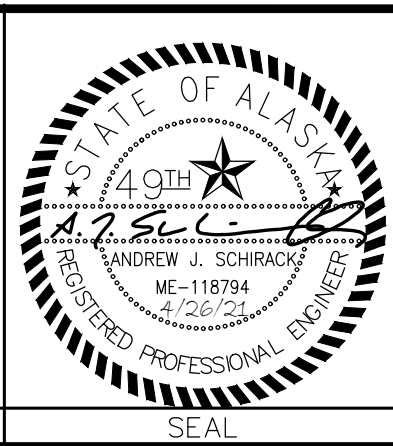
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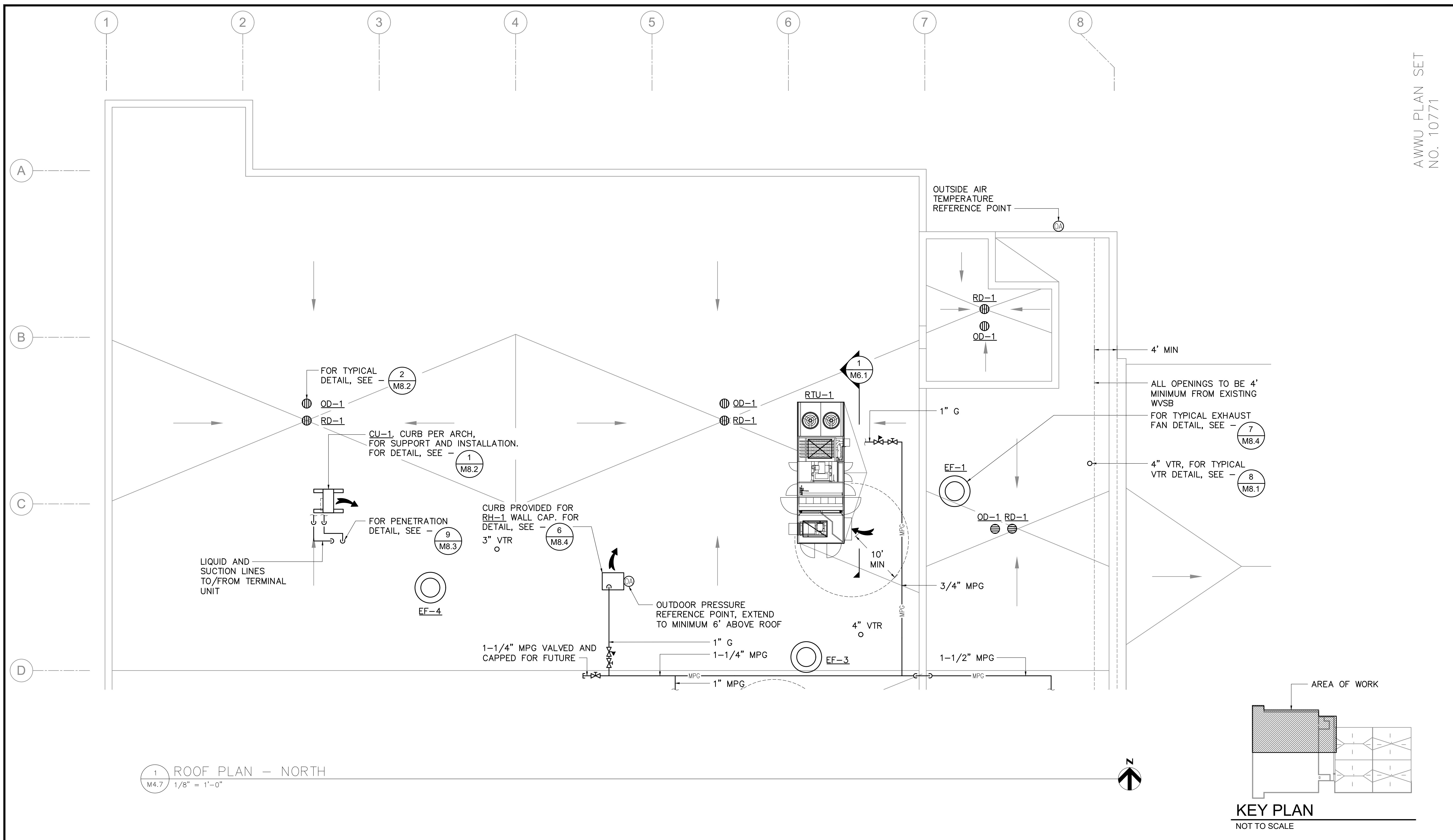
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

SECOND FLOOR - SOUTH VENTILATION PLAN

DATE: APRIL 2021 GRID: SW 2431
 PROJ. ID.: WW.H7775

DWG **M4.6**

SHEET 220 of 288



REV	DATE	DESCRIPTION	BY

REVISIONS

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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
ROOF PLAN - NORTH
M4.7
HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775
SHEET 221 of 288

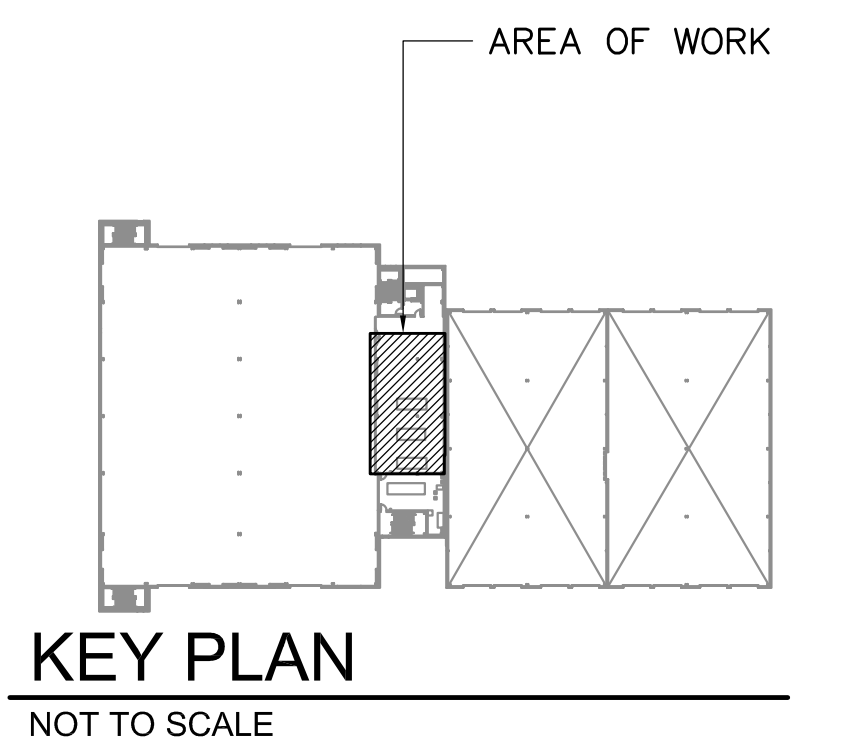
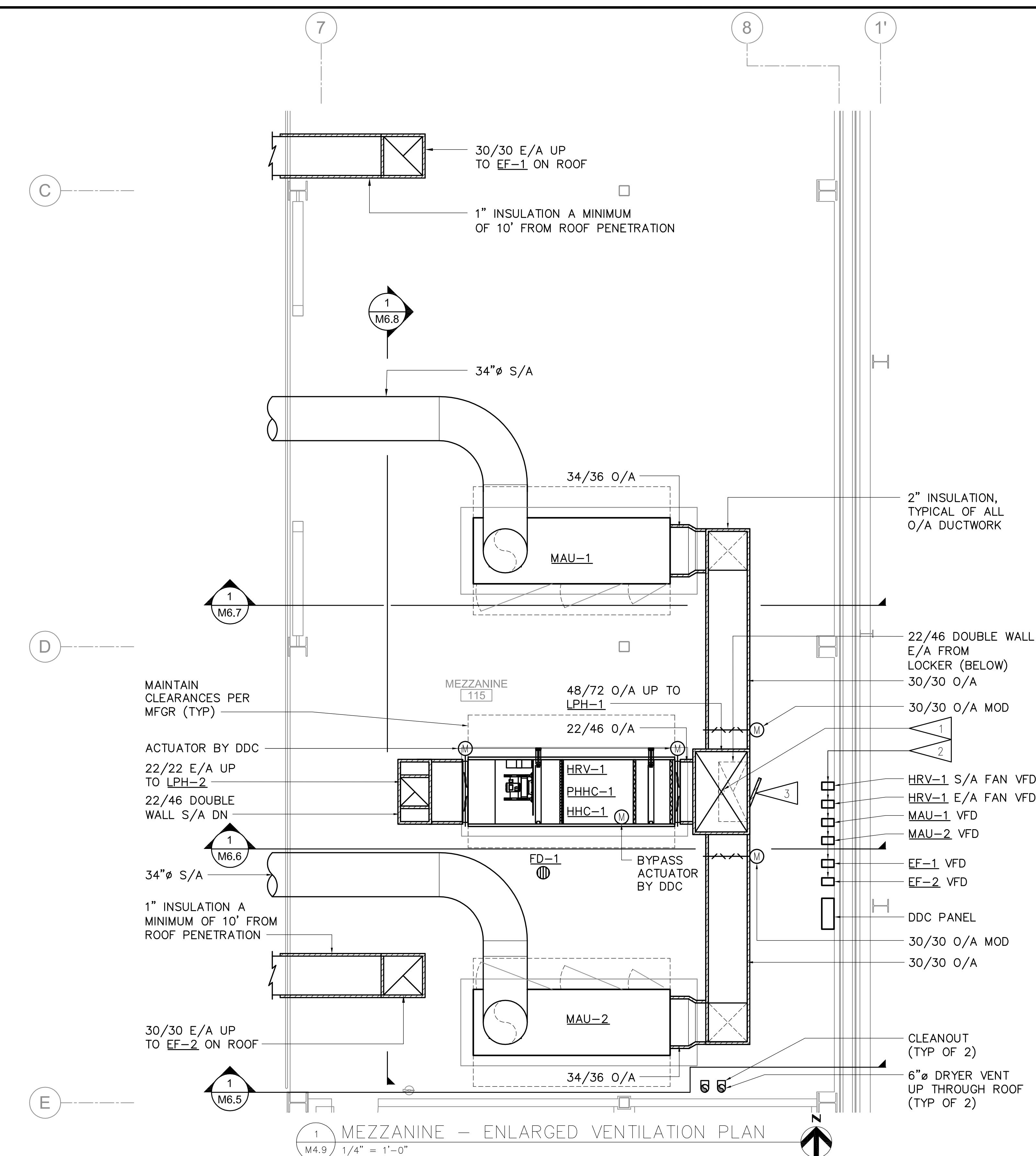
GENERAL NOTES

A. FOR DDC SENSOR LOCATIONS SEE M3.1.

SHEET NOTES

- 1 PROVIDE 3/4" DRAIN ON BOTTOM OF O/A DUCT. ROUTE TO FD-1.
- 2 VFD PROVIDED BY MECHANICAL DIVISION 23. INSTALLED BY ELECTRICAL DIVISION 26.
- 3 PROVIDE 18/18 INSULATED ACCESS DOOR ON BOTTOM OF 40/62 O/A DUCT.

NOTE:
PROVIDE STRUCTURAL, SEISMIC, AND WIND LOAD CALCULATIONS PLUS FASTENING DETAILS FOR B-1&2, HS-1, WH-1&2, MAU-1&2, RTU-1&2, HRV-1, AND CP-1A&1B. INCLUDE THE ENGINEER'S STAMP AND SIGNATURE, FOR STRUCTURAL REVIEW ON A DEFERRED SUBMITTAL BASIS.



1 MEZZANINE - ENLARGED VENTILATION PLAN
M4.9 1/4" = 1'-0"

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY
1	6/8/2021	MOA PLAN REVIEW	CJT
REVISIONS			

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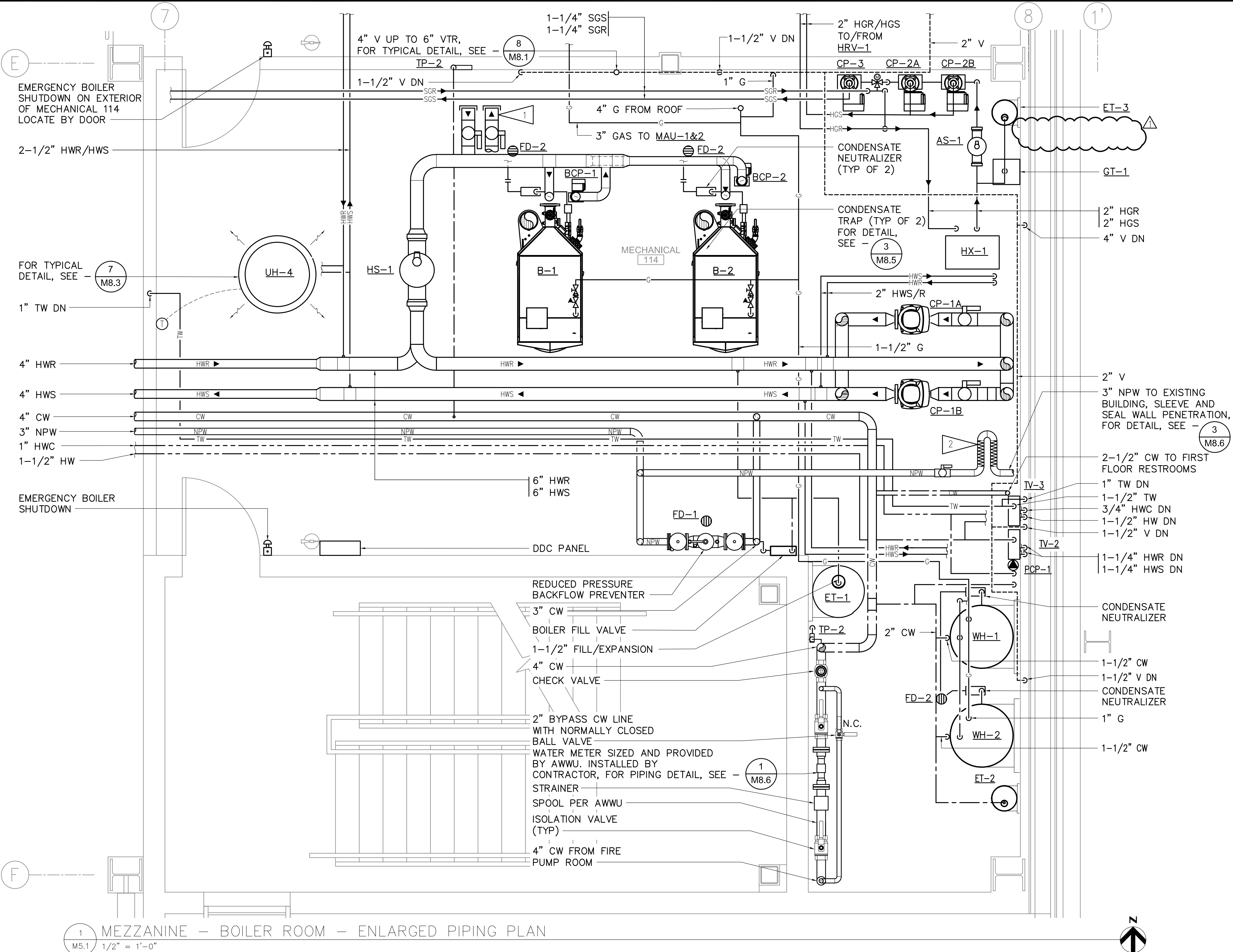
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
MEZZANINE - ENLARGED VENTILATION PLAN
M4.9
HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775
SHEET 223 of 288

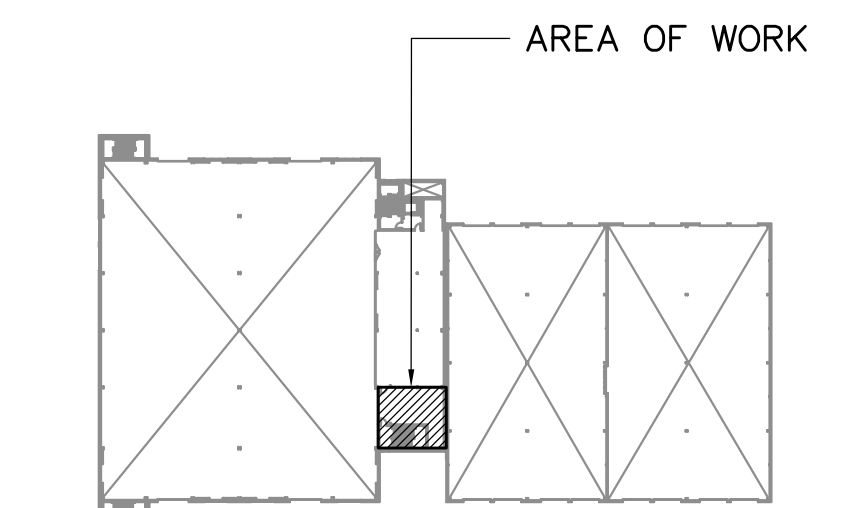


GENERAL NOTES

- A. FOR BOILER PIPING SCHEMATIC, SEE - **1** (M7.1)
- B. FOR HEAT EXCHANGER PIPING SCHEMATIC, SEE - **2** (M7.1)
- C. FOR WATER HEATER PIPING SCHEMATIC, SEE - **2** (M7.2)
- D. SEE STRUCTURAL PLANS FOR HOUSEKEEPING PAD SIZE AND LAYOUT.
- E. SLEEVE ALL FLOOR PENETRATIONS PER SPECIFICATIONS.
- F. FOR BRANCH LINES TO UNIT HEATERS, SEE M0.3.

GENERAL NOTES

- 1** 6" VALVED AND CAPPED HWS/HWR FOR FUTURE HEAT EXCHANGER.
- 2** PROVIDE SEISMIC WHERE PIPING CROSSES SEISMIC JOINT. FOR DETAIL, SEE - **5** (M8.5)



KEY PLAN
NOT TO SCALE

1 MEZZANINE - BOILER ROOM - ENLARGED PIPING PLAN
M5.1 1/2" = 1'-0"

REV	DATE	DESCRIPTION	BY
1	6/8/2021	MOA PLAN REVIEW	CJT

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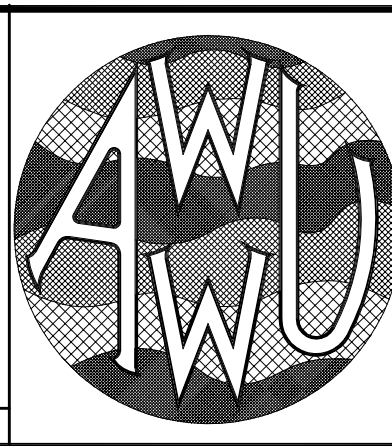
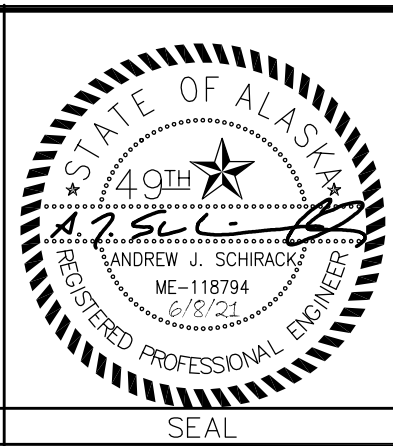
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

ENLARGED BOILER ROOM PIPING PLAN

DWG **M5.1**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

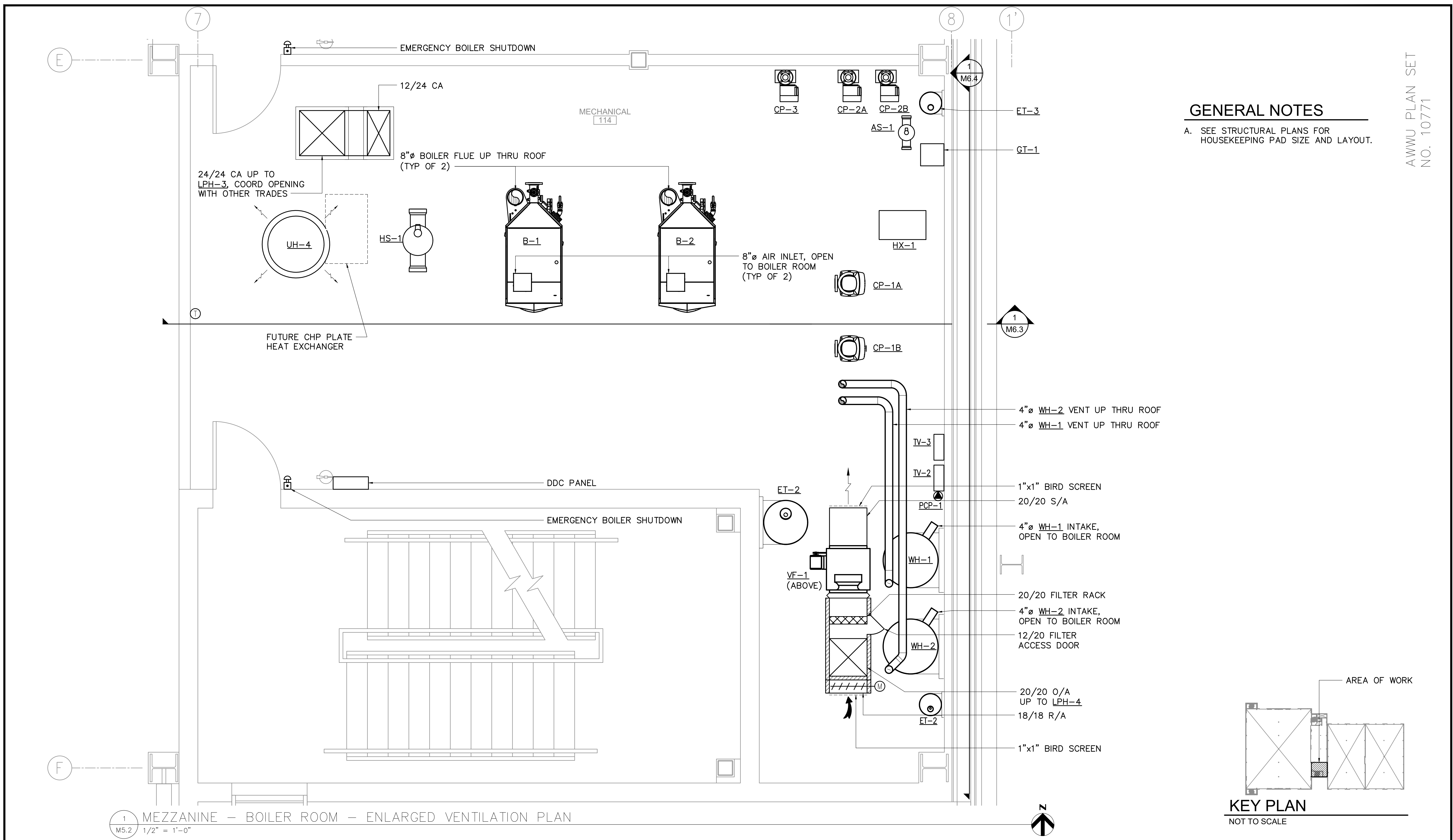
SHEET 224 of 288

GENERAL NOTES

A. SEE STRUCTURAL PLANS FOR HOUSEKEEPING PAD SIZE AND LAYOUT.

MEZZANINE - BOILER ROOM - ENLARGED VENTILATION PLAN
1/2" = 1'-0"

KEY PLAN
NOT TO SCALE



REV	DATE	DESCRIPTION	BY

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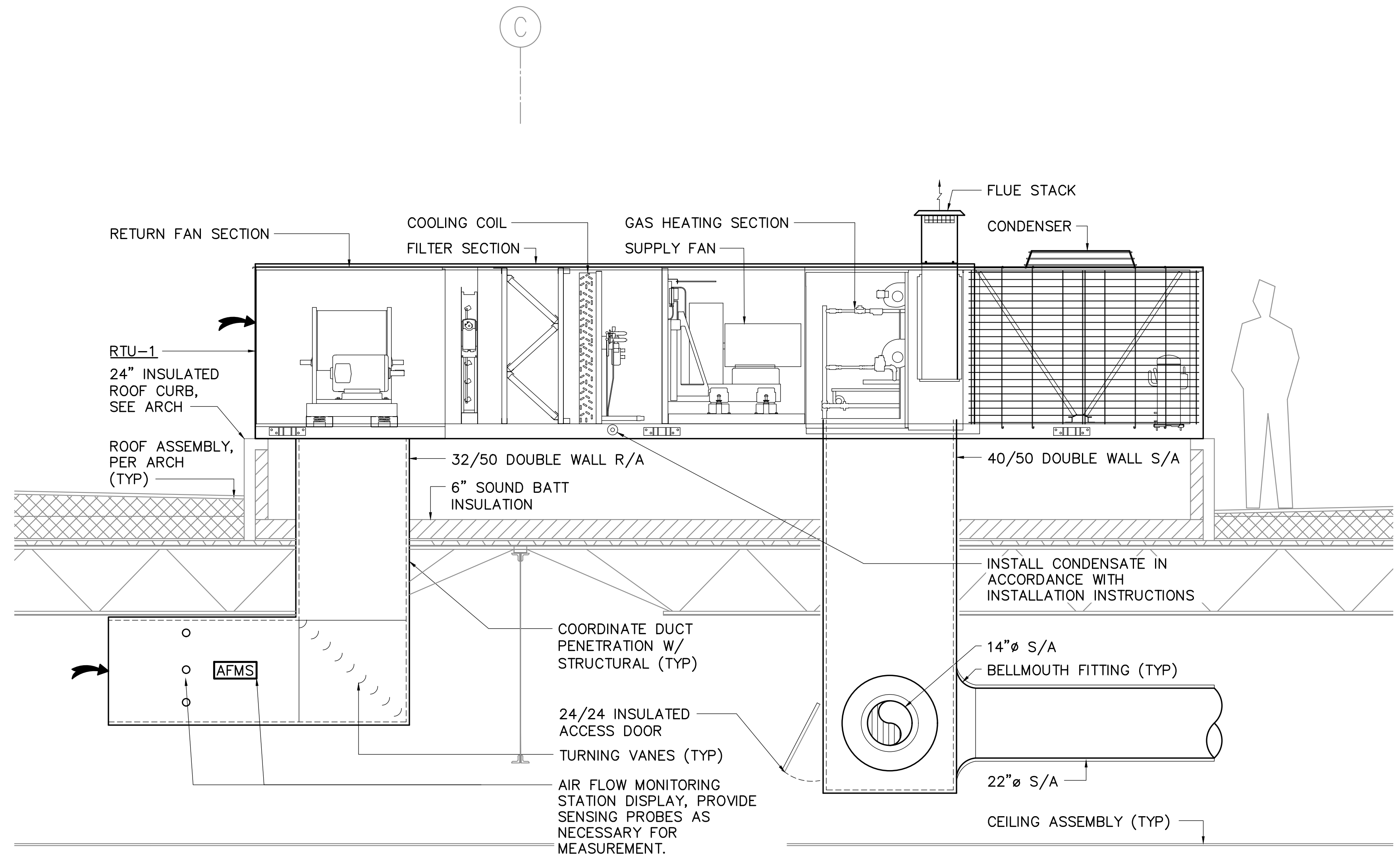
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ENLARGED BOILER ROOM VENTILATION PLAN
 DWG M5.2
 HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775
 SHEET 225 of 288



1 RTU-1 VENTILATION SECTION
M6.1 1/2" = 1'-0"

VERIFY SCALE			
REV	DATE	DESCRIPTION	BY
REVISIONS			

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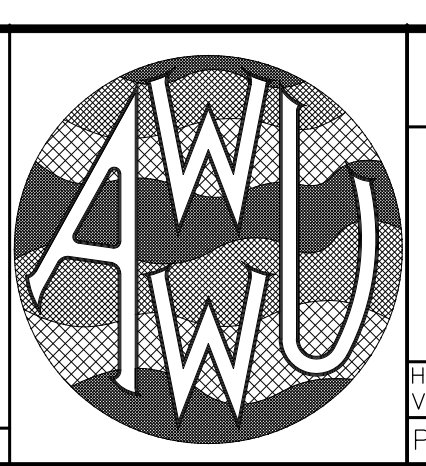
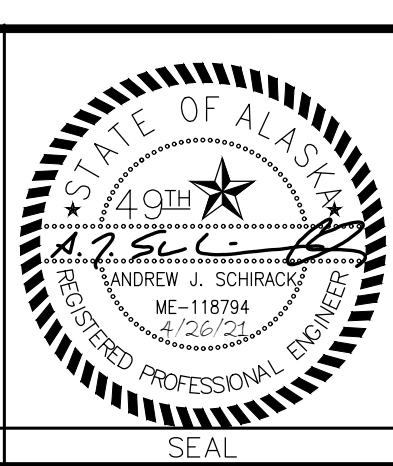
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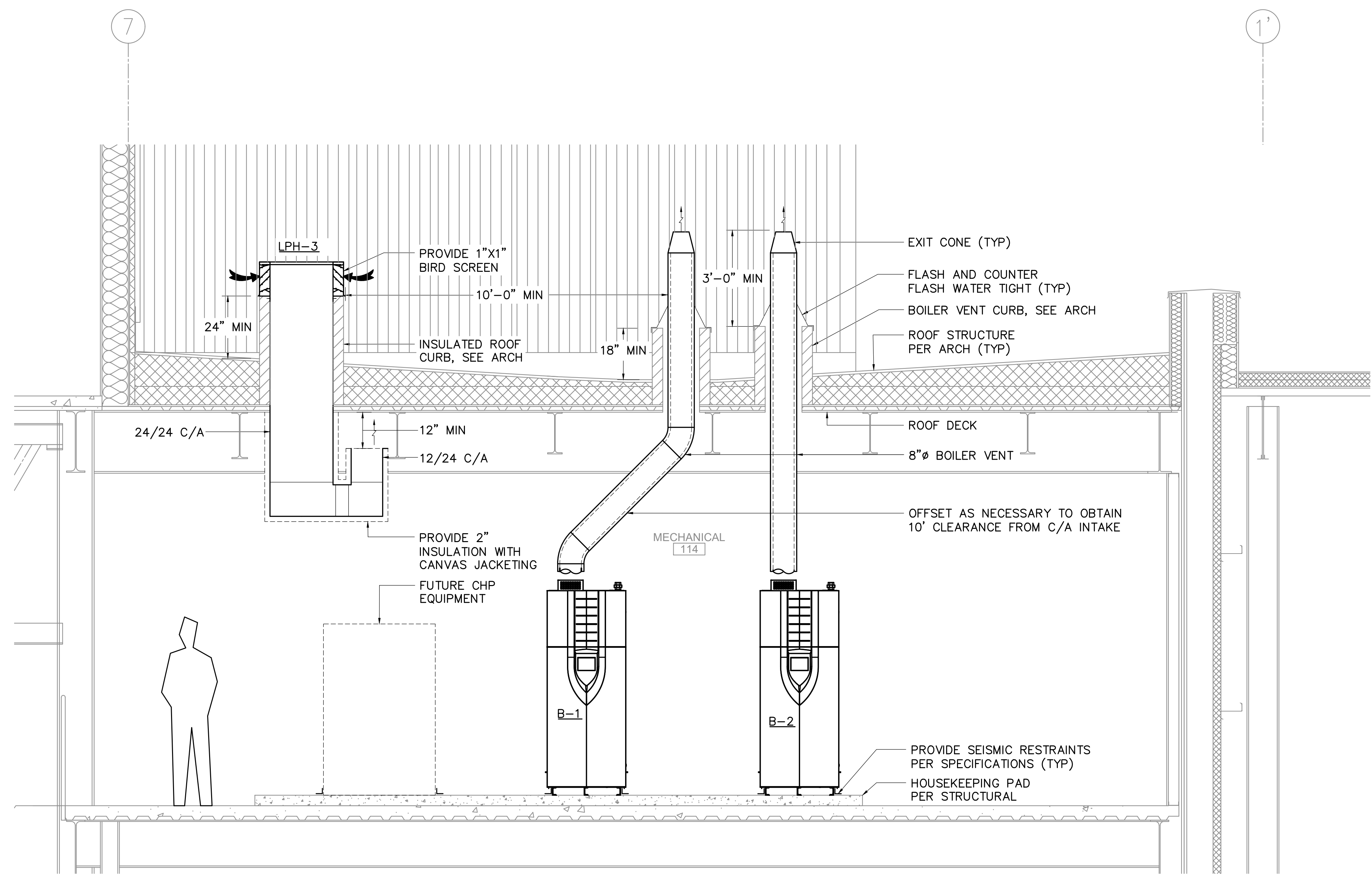
VENTILATION SECTIONS

DATE: APRIL 2021 GRID: SW 2431

PROJ. ID.: WW.H7775

DWG **M6.1**

SHEET 226 of 288



1 BOILER ROOM VENTILATION SECTION
M6.3 1/2" = 1'-0"

REV	DATE	DESCRIPTION	BY

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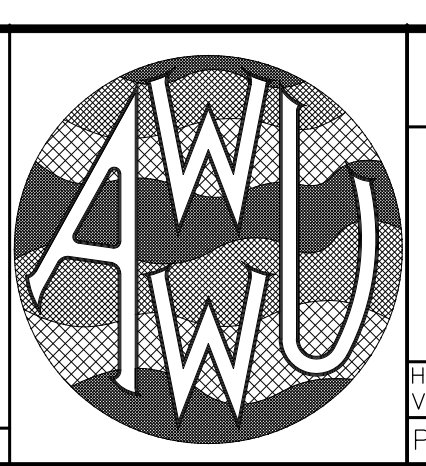
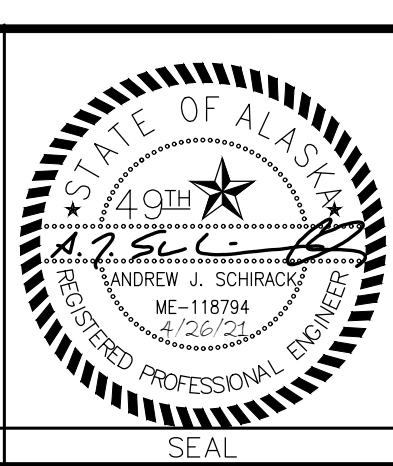
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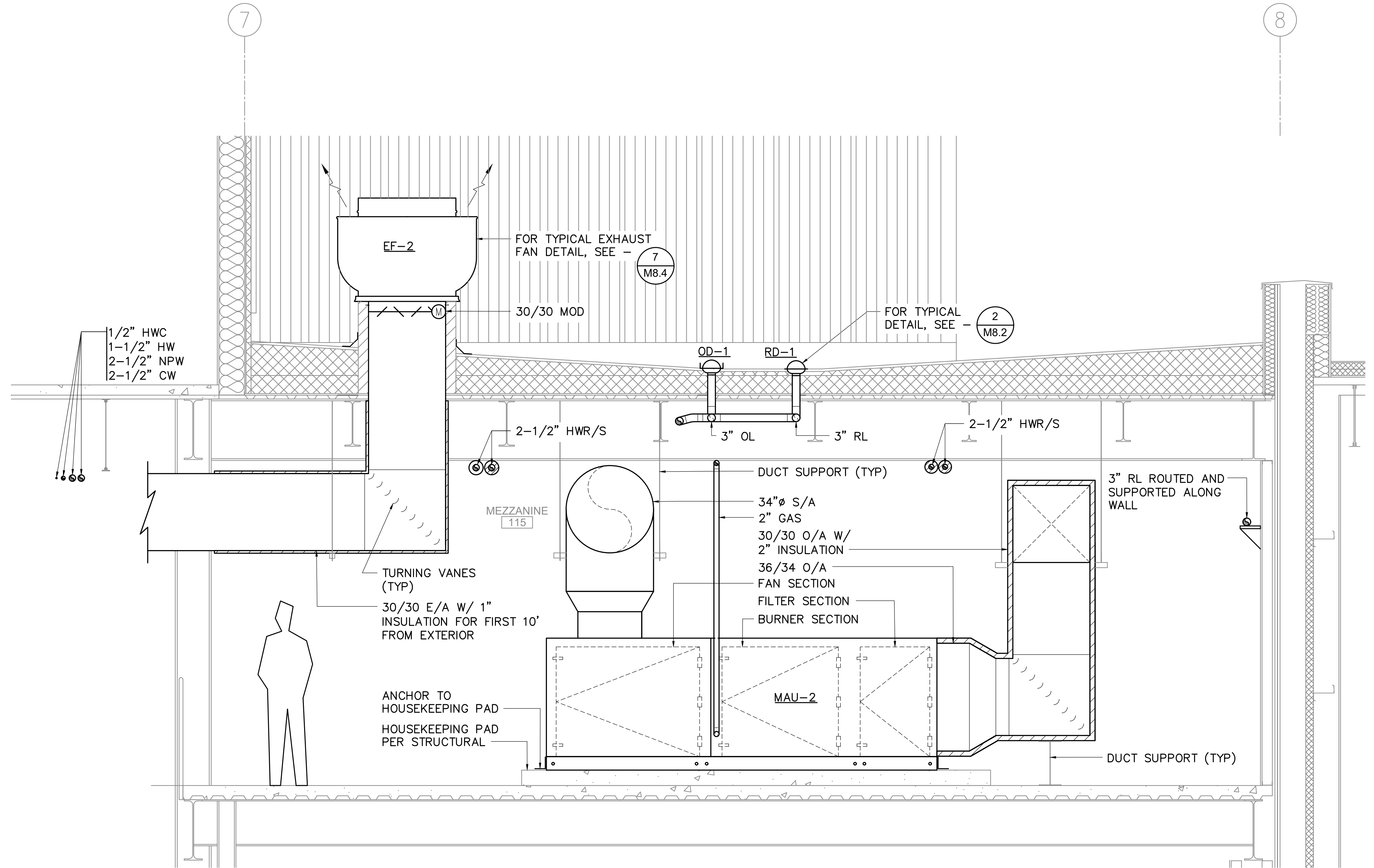
VENTILATION SECTIONS

DATE: APRIL 2021 GRID: SW 2431

PROJ. ID.: WW.H7775

DWG **M6.3**

SHEET 228 of 288



1 MAU-2 VENTILATION SECTION
M6.5 1/2" = 1'-0"

REV	DATE	DESCRIPTION	BY

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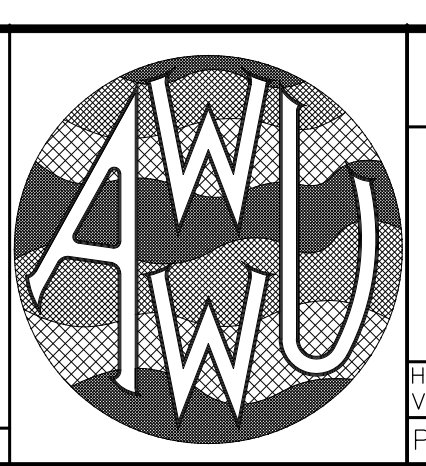
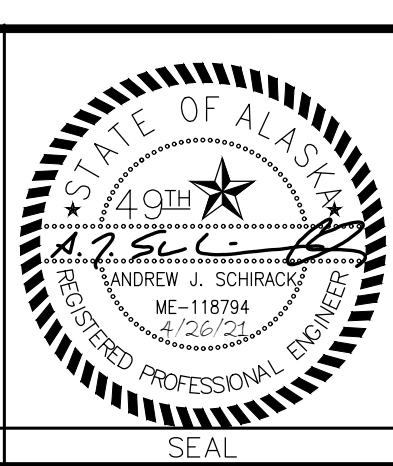
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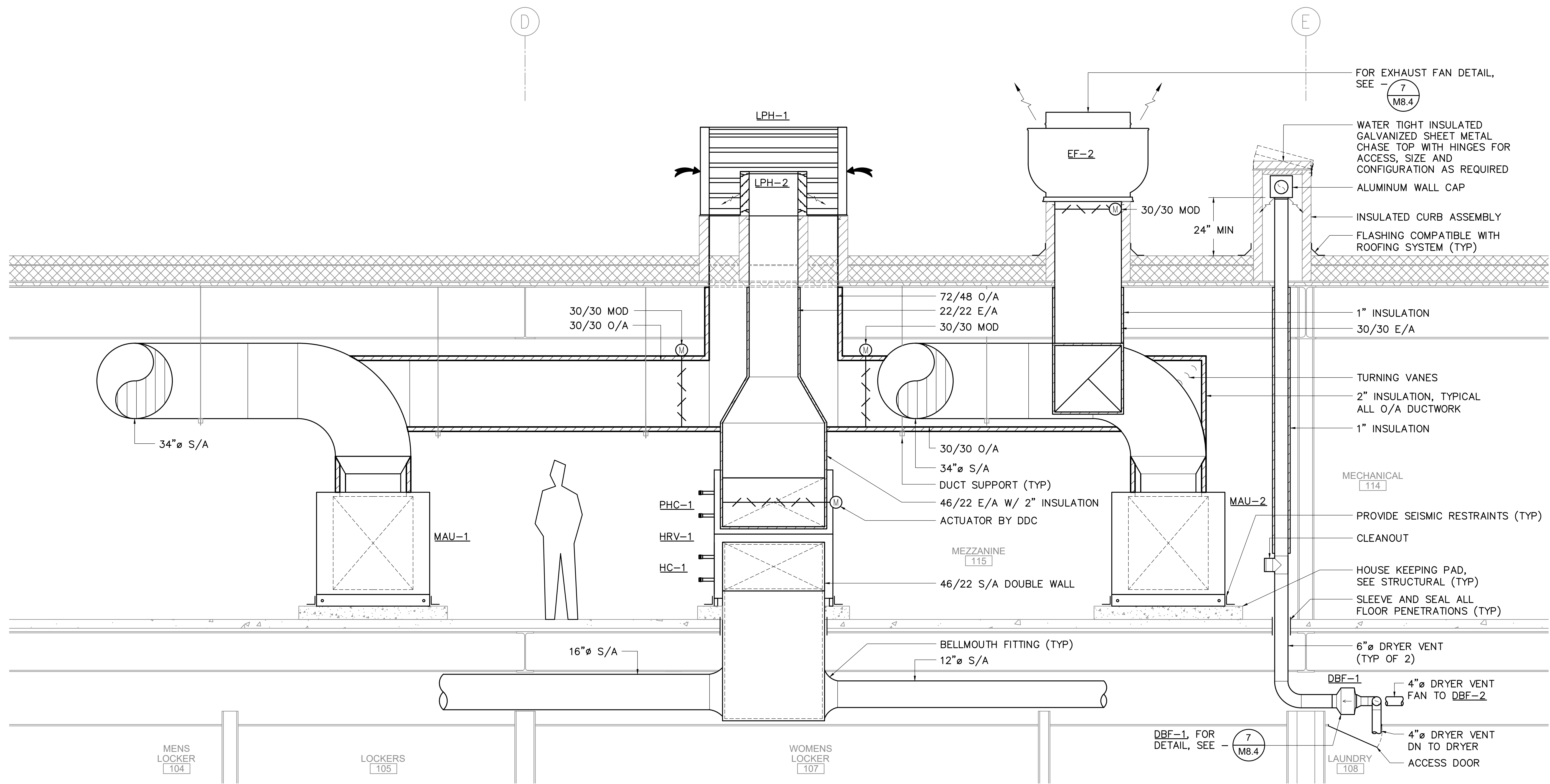
VENTILATION SECTIONS

DATE: APRIL 2021 GRID: SW 2431

PROJ. ID.: WW.H7775

DWG **M6.5**

SHEET 230 of 288



1 MEZZANINE VENTILATION SECTION
M6.8 1/2" = 1'-0"

REV	DATE	DESCRIPTION	BY

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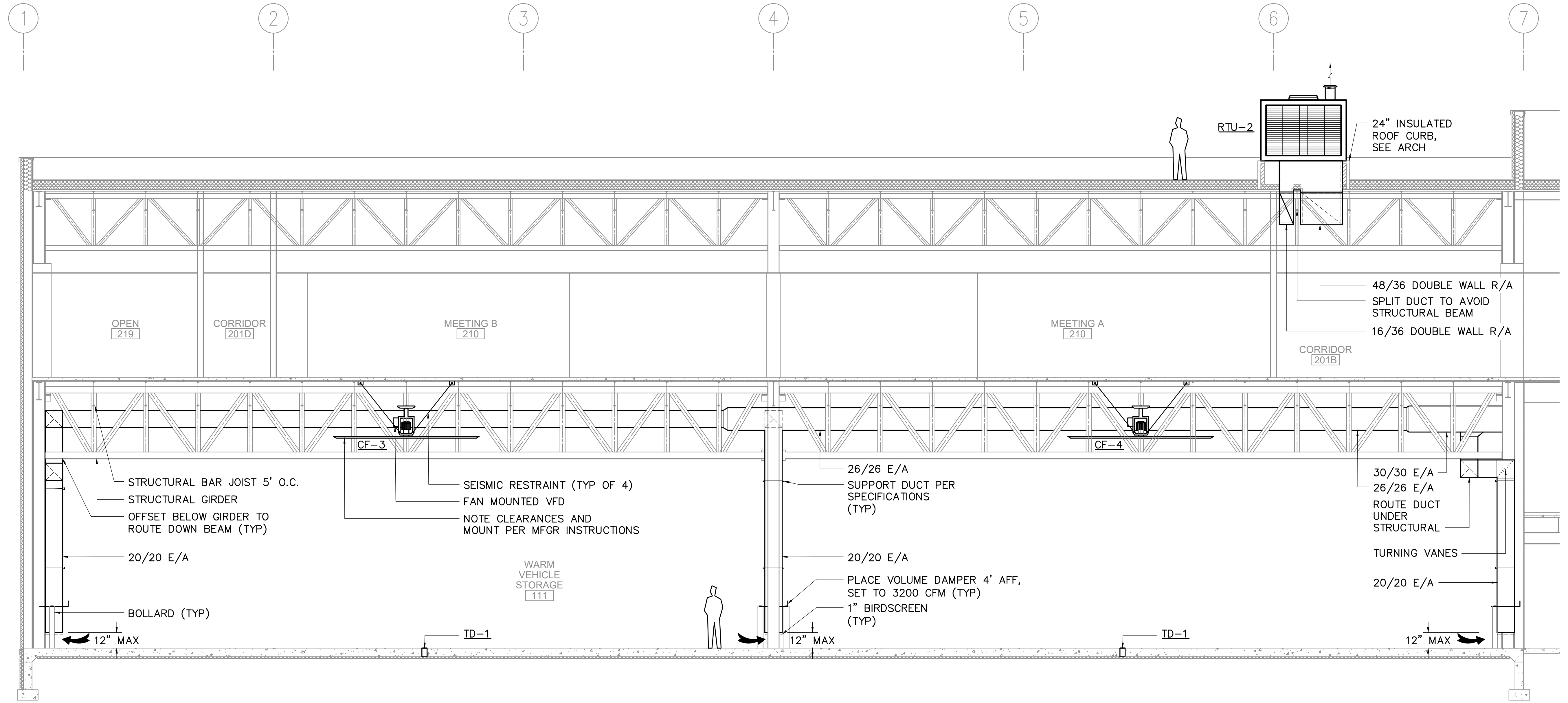
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
VENTILATION SECTIONS
DWG M6.8
HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775
SHEET 233 of 288



1 WARM VEHICLE STORAGE VENTILATION SECTION
M6.9 3/16" = 1'-0"

REV	DATE	DESCRIPTION	BY

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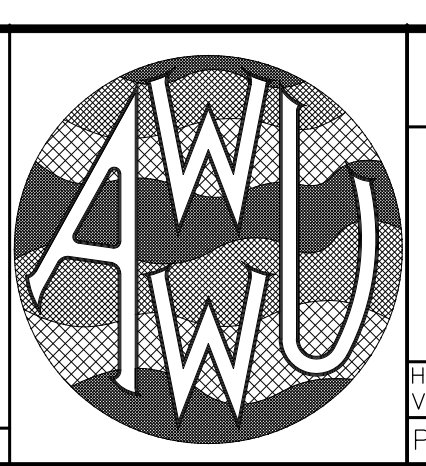
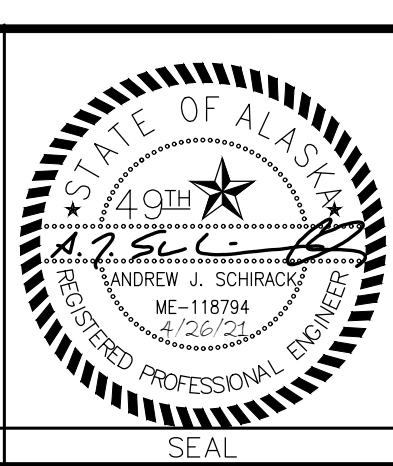
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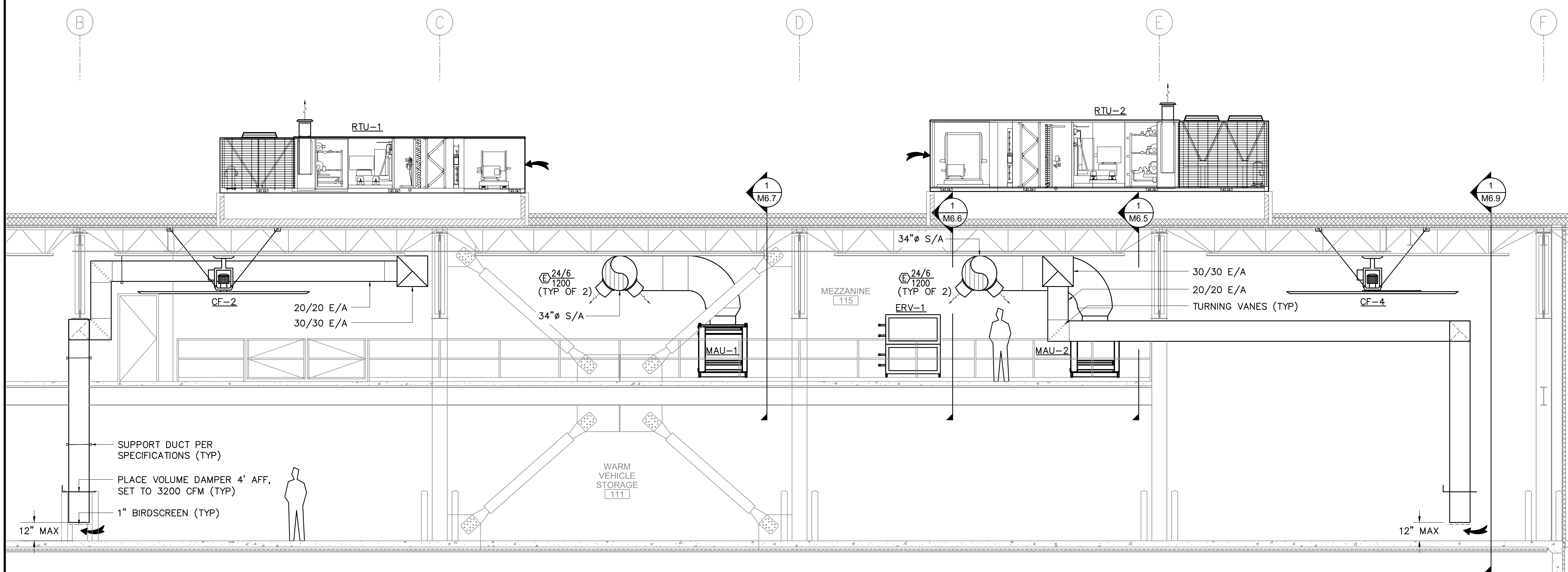
VENTILATION SECTIONS

DATE: APRIL 2021 GRID: SW 2431

PROJ. ID.: WW.H7775

DWG **M6.9**

SHEET 234 of 288



1 WARM VEHICLE STORAGE VENTILATION SECTION
M6.10 1/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

REVISIONS

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 BY: _____

2. DATA TRANSFERRED BY: _____
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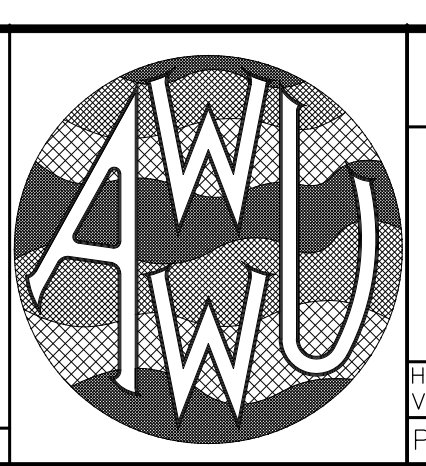
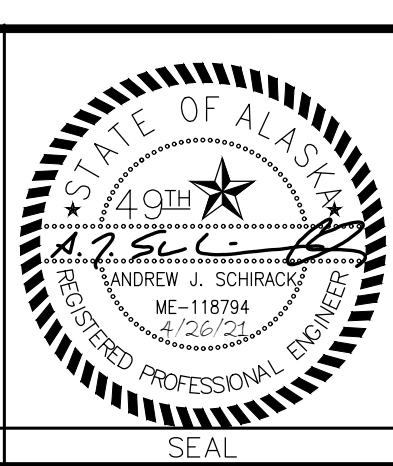
3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____
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RSA Mechanical and Electrical Consulting Engineers
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 (907) 276-0521
 Corporate No.: AECC542
 RSA Job No.: L9266
 CONSULTANT



MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

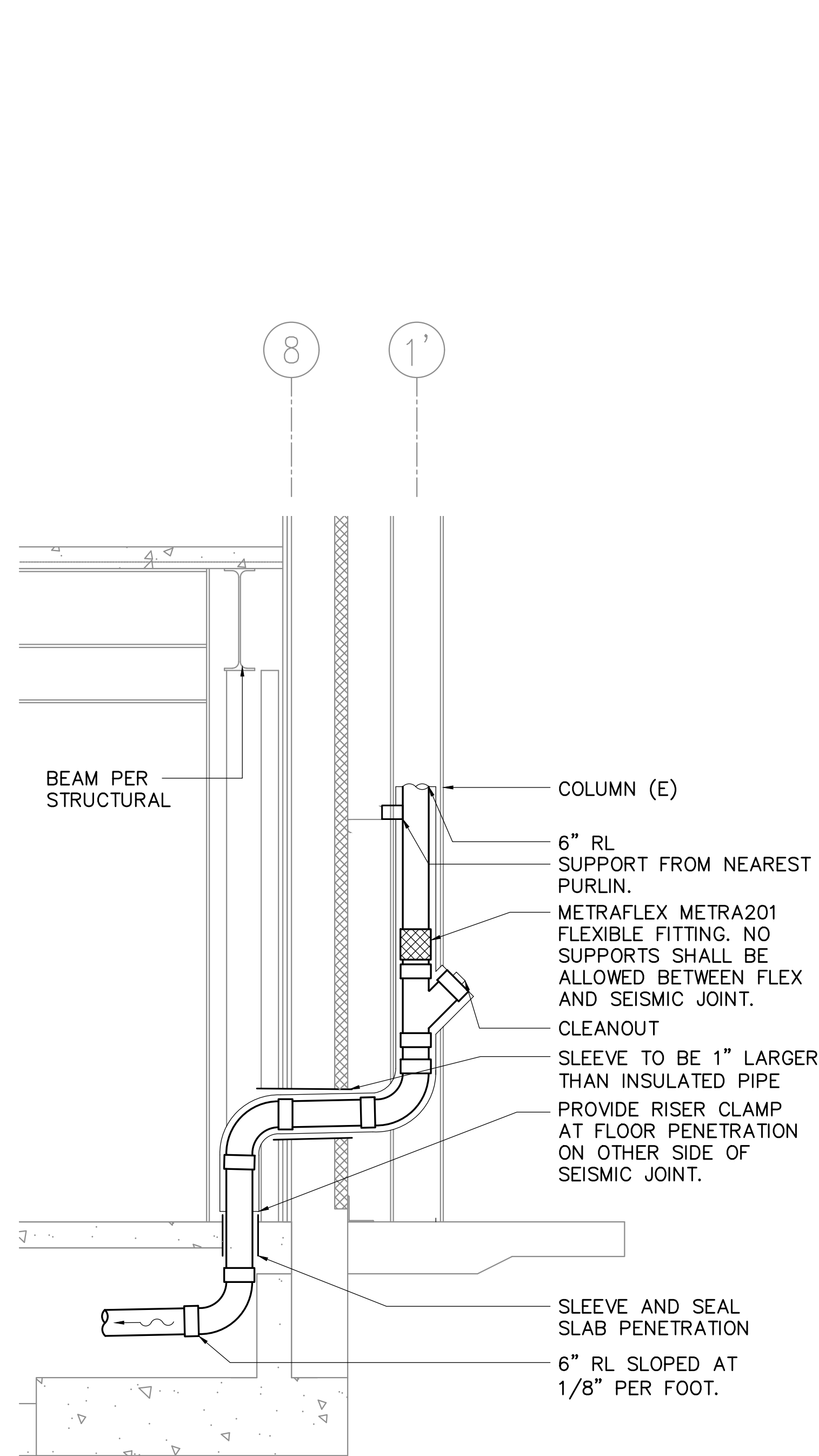
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

VENTILATION SECTIONS

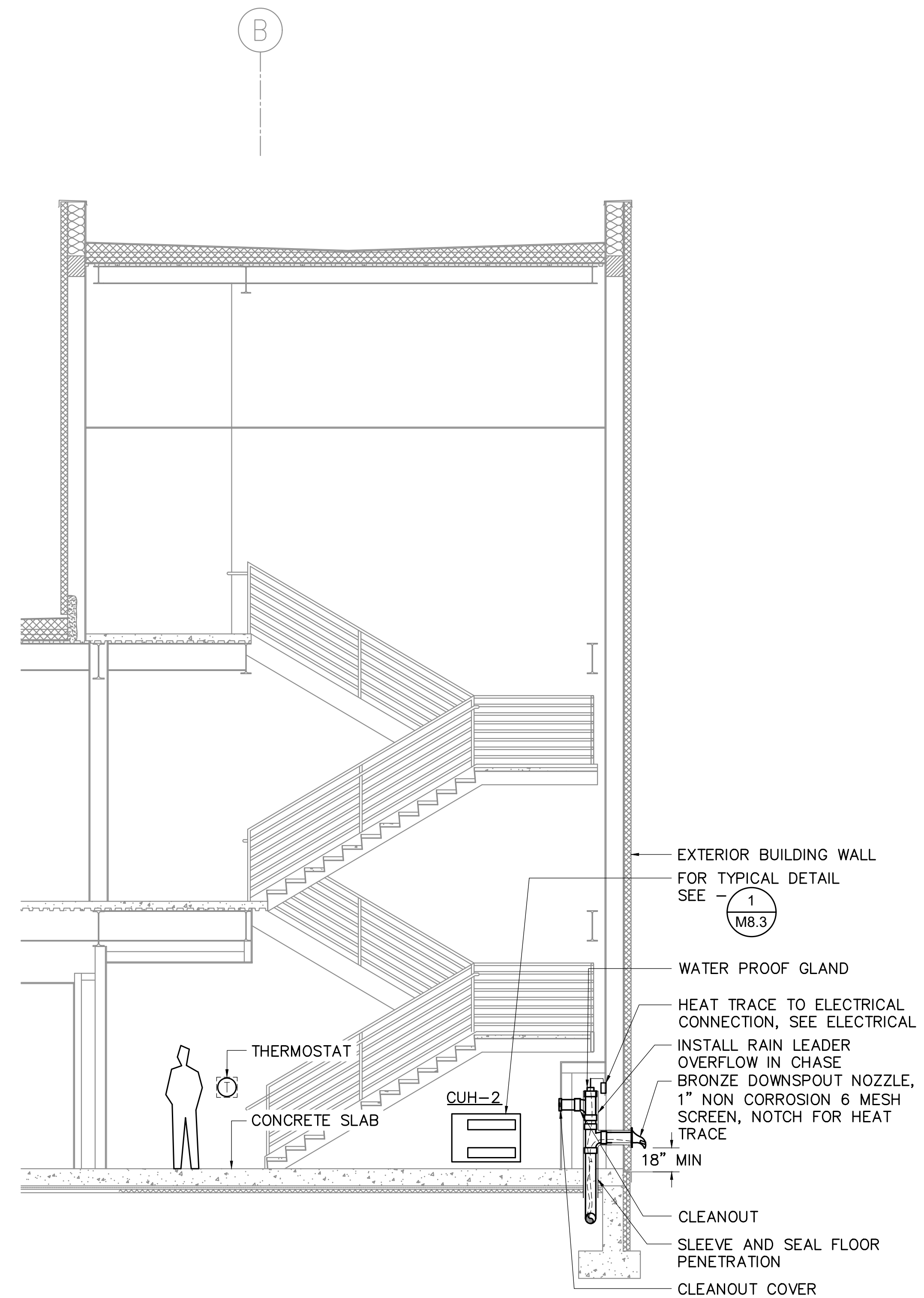
DWG **M6.10**

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775

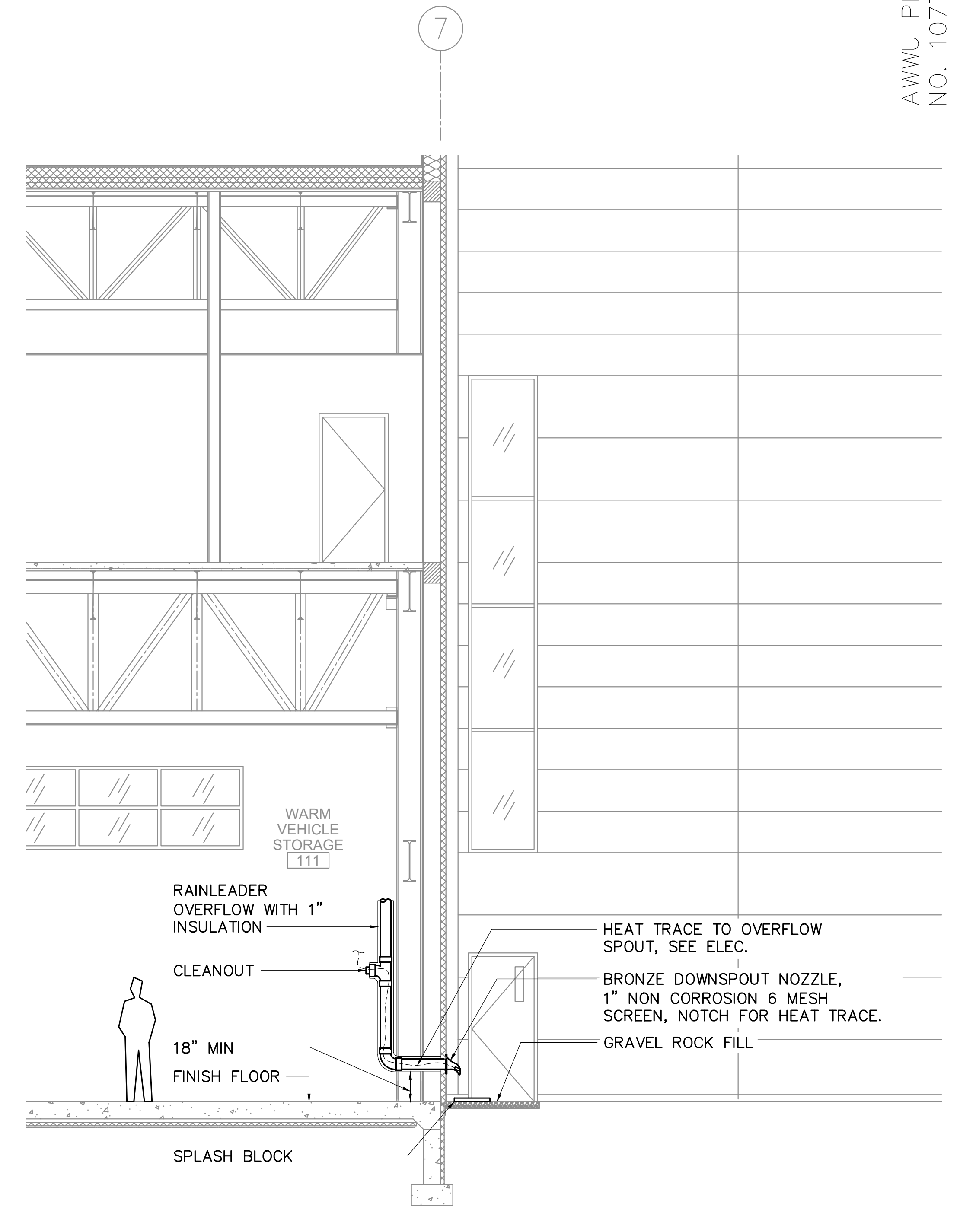
SHEET 235 of 288



1 RAIN LEADER ROUTING BELOW FOOTING
M6.11 1/2" = 1'-0"



2 ST-1 SECTION
M6.11 1/4" = 1'-0"



3 WARM VEHICLE STORAGE RAIN LEADER SECTION
M6.11 1/4" = 1'-0"

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY

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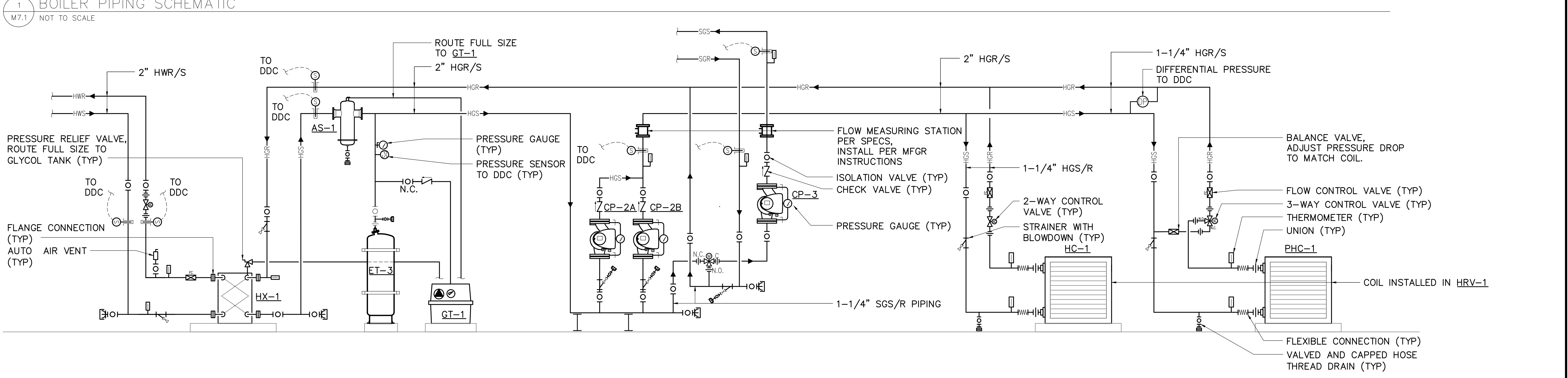
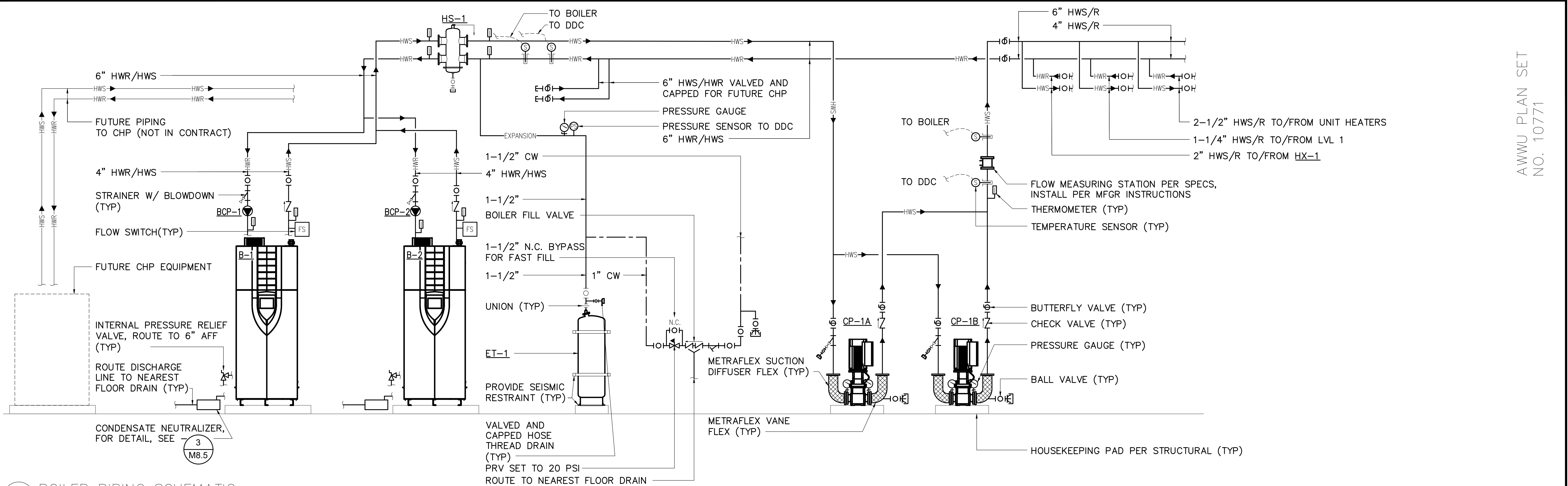
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 RSA Job No.: L9266
 CONSULTANT

STATE OF ALASKA
 4 QTH
 ANDREW J. SCHIRACK
 ME-118794
 4/20/22
 REGISTERED PROFESSIONAL ENGINEER
 SEAL

AWWU

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 WATER & WASTEWATER UTILITY
 KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
PLUMBING SECTIONS
 DWG M6.11
 HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775
 SHEET 236 of 288



REV	DATE	DESCRIPTION	BY

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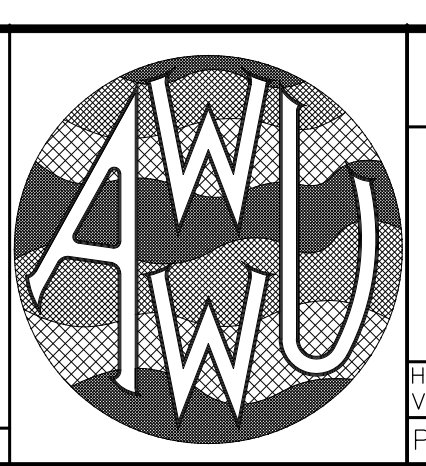
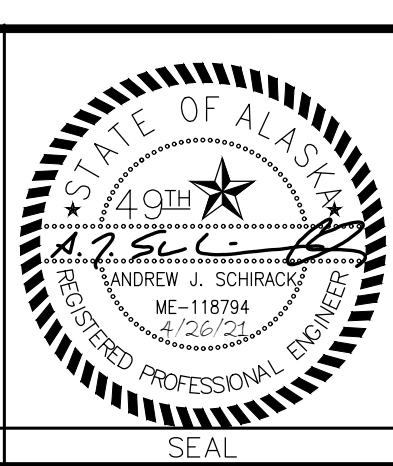
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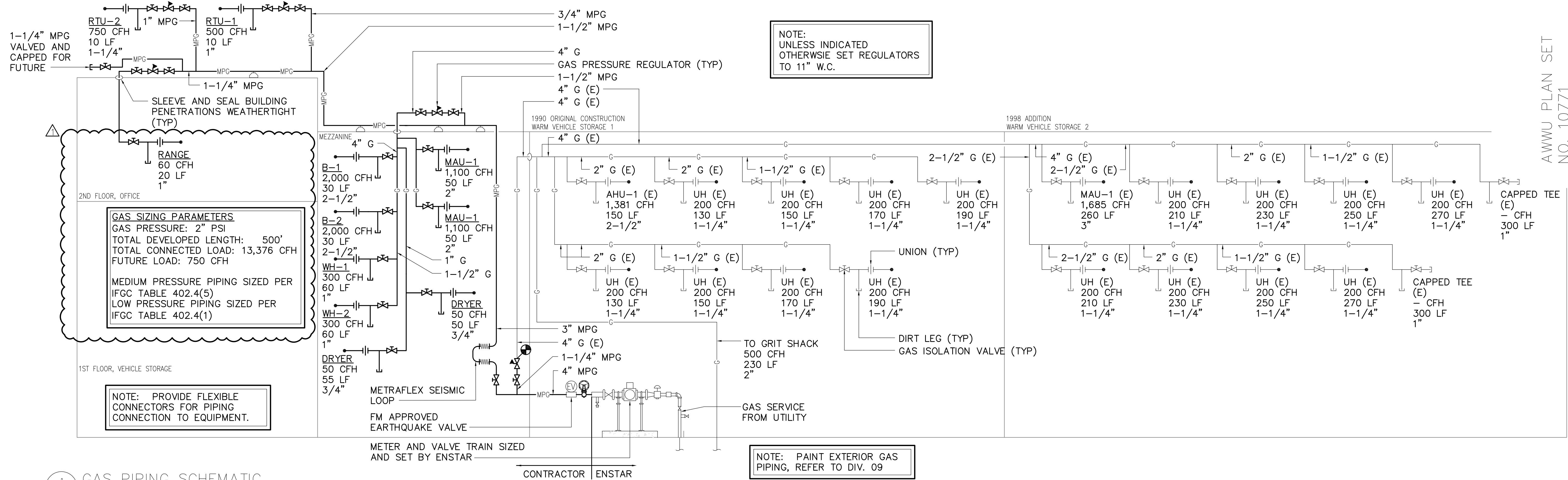
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

BOILER & HEAT EXCHANGER PIPING SCHEMATIC

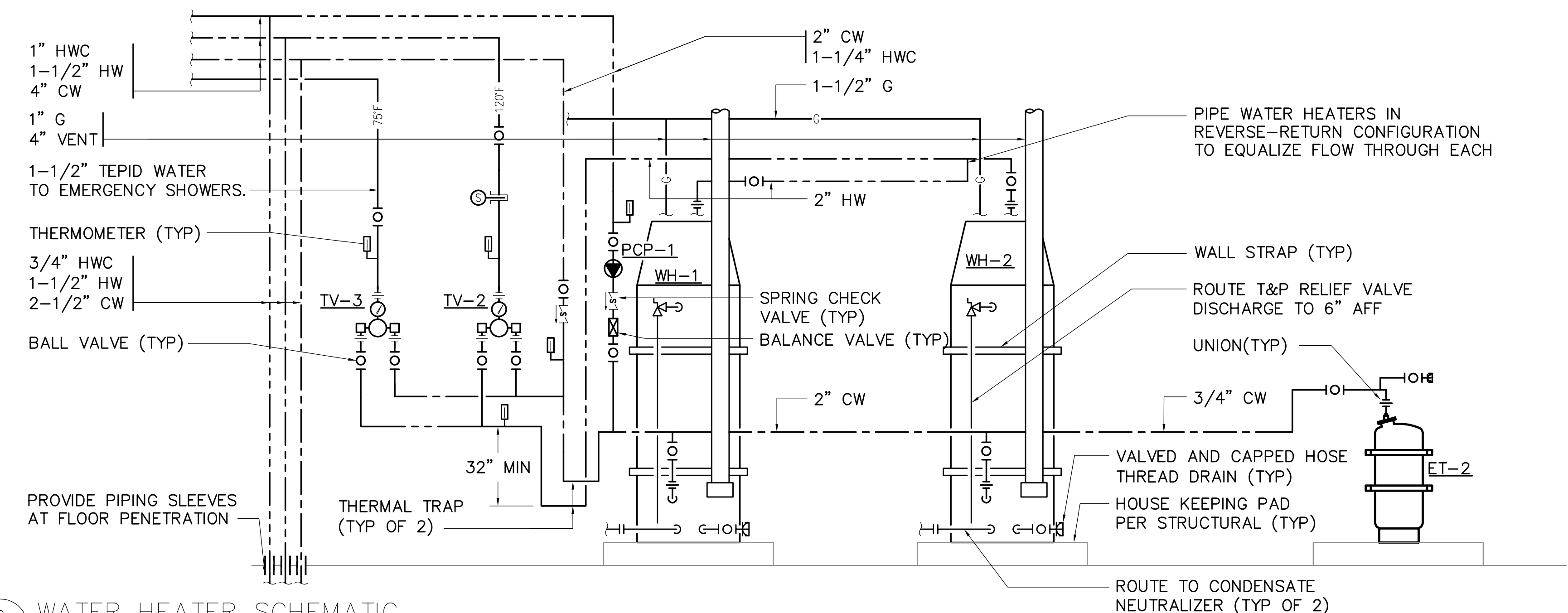
DWG M7.1

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775

SHEET 238 of 288



1 GAS PIPING SCHEMATIC
M7.2 NOT TO SCALE



2 WATER HEATER SCHEMATIC
M7.2 NOT TO SCALE

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY
1	6/8/2021	MOA PLAN REVIEW	CJT
REVISIONS			

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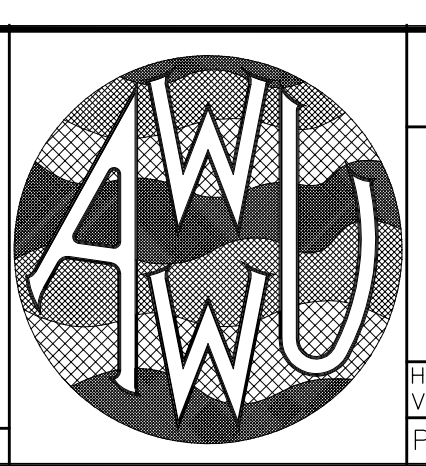
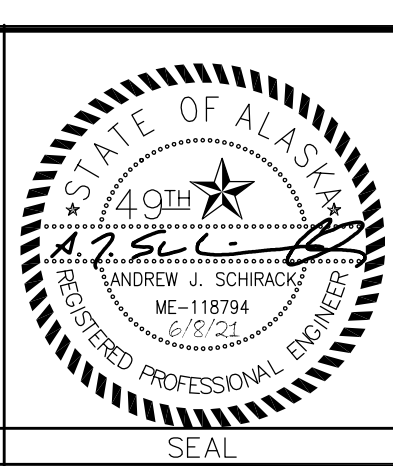
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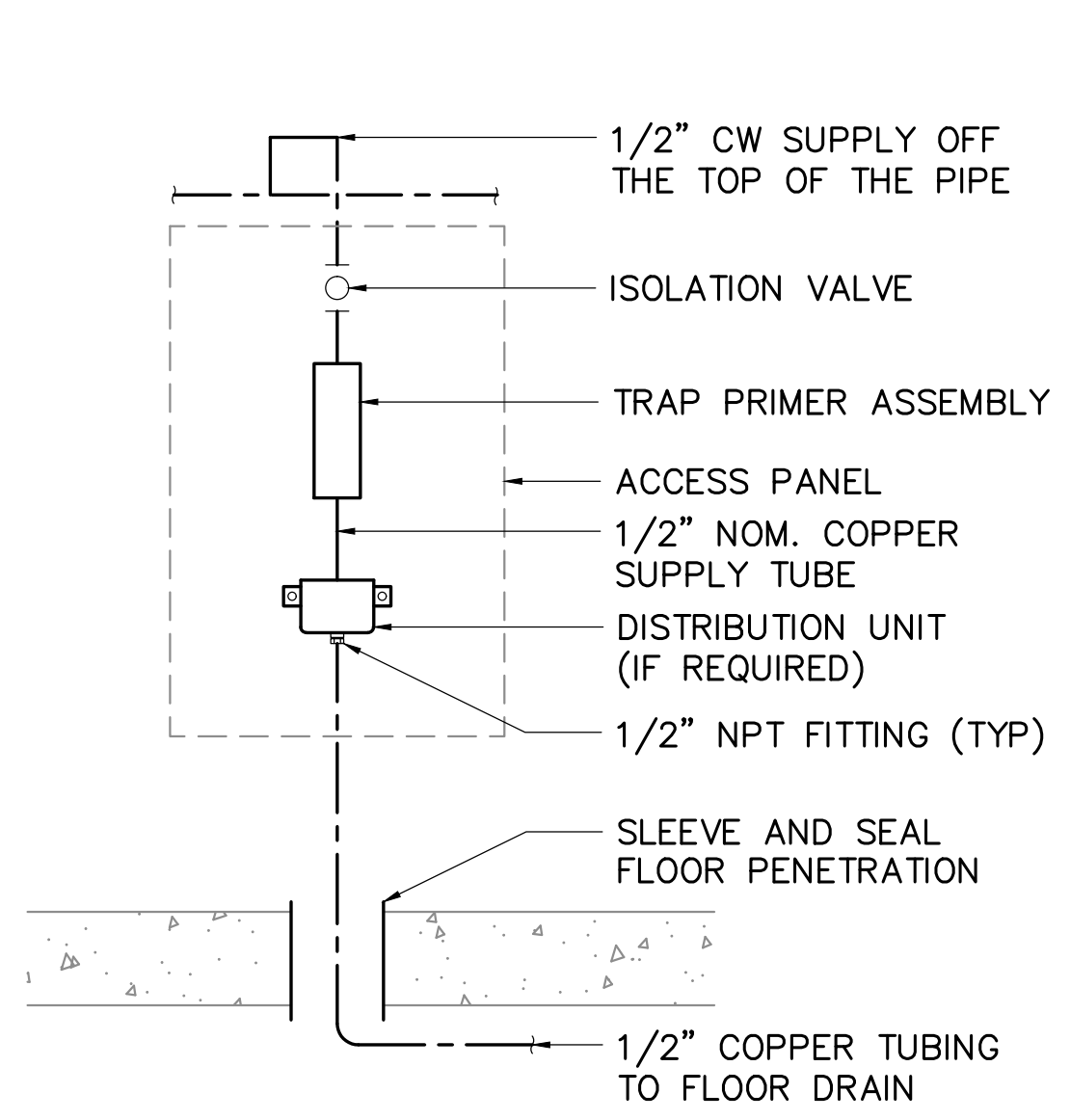
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

GAS PIPING AND WATER HEATER SCHEMATIC

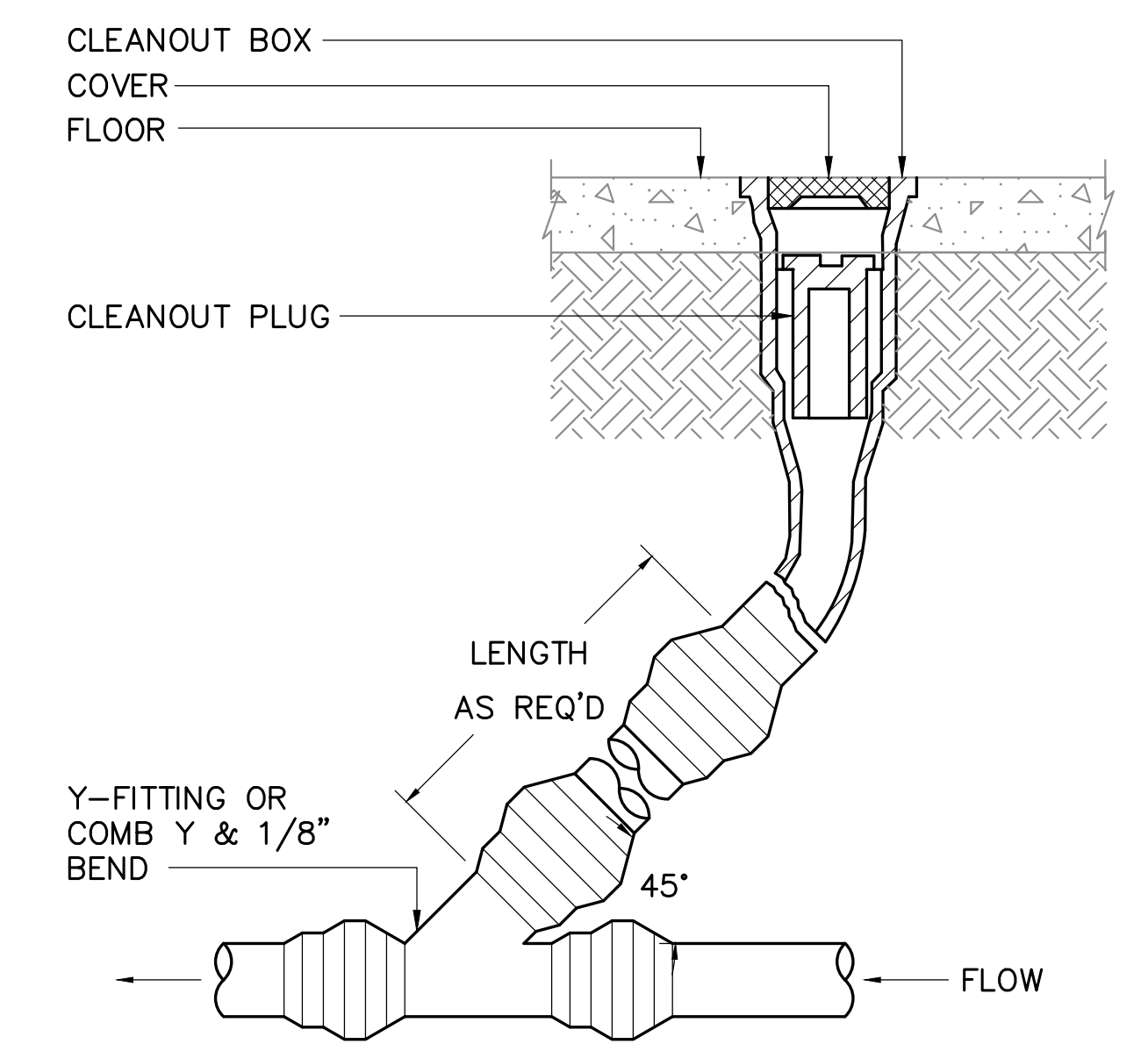
DWG M7.2

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
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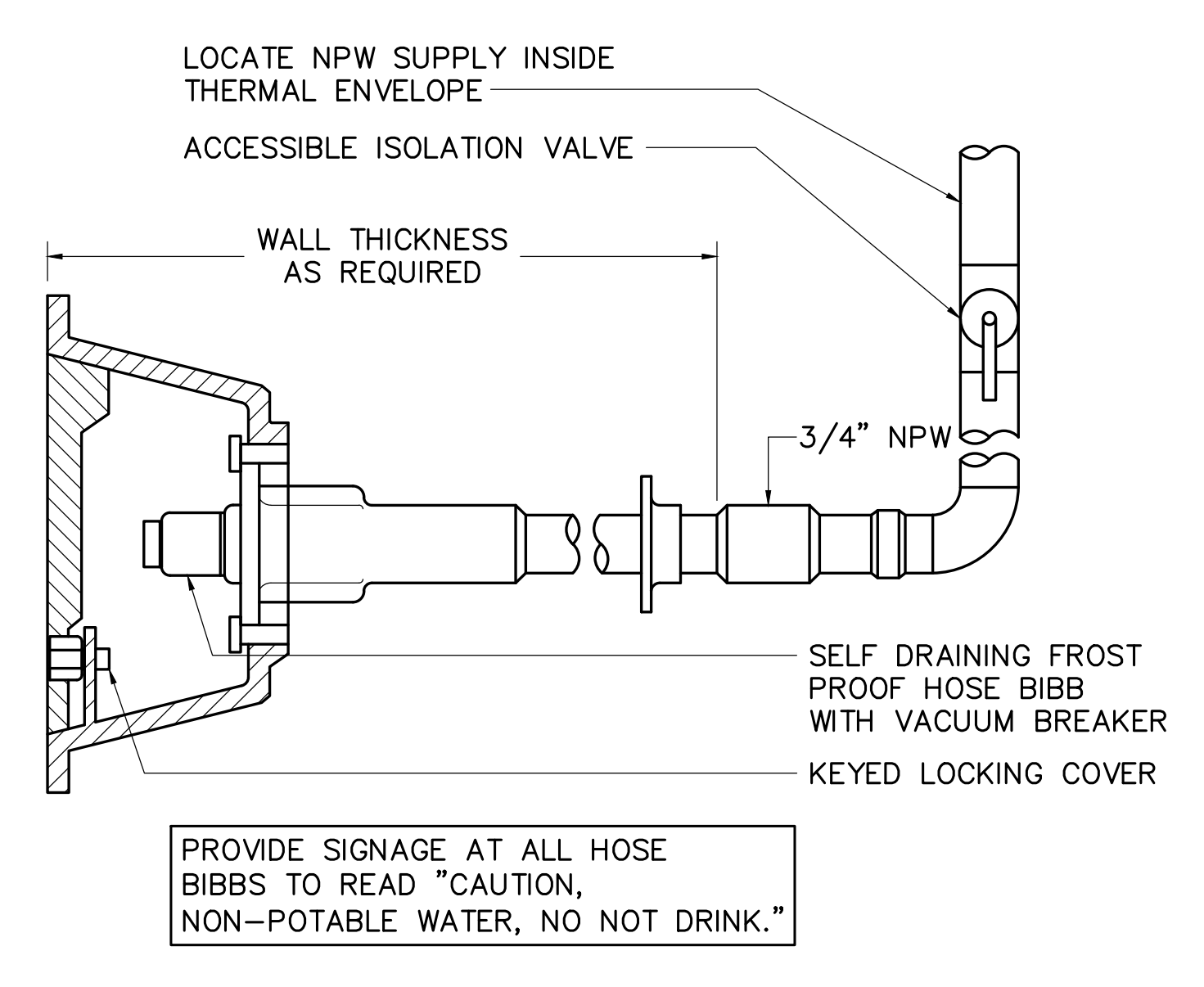
SHEET 239 of 288



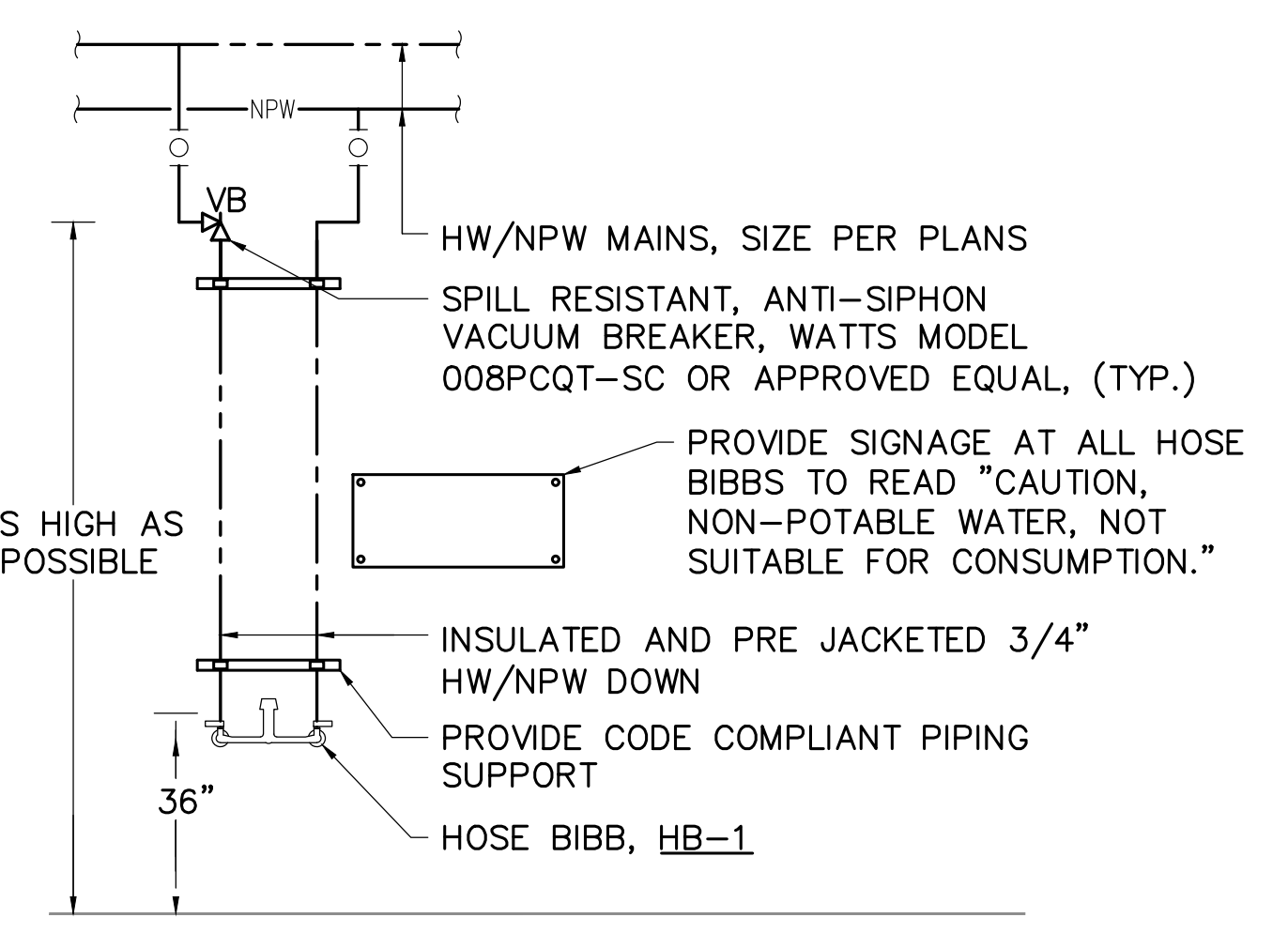
1 TRAP PRIMER DETAIL
M8.1 NTS



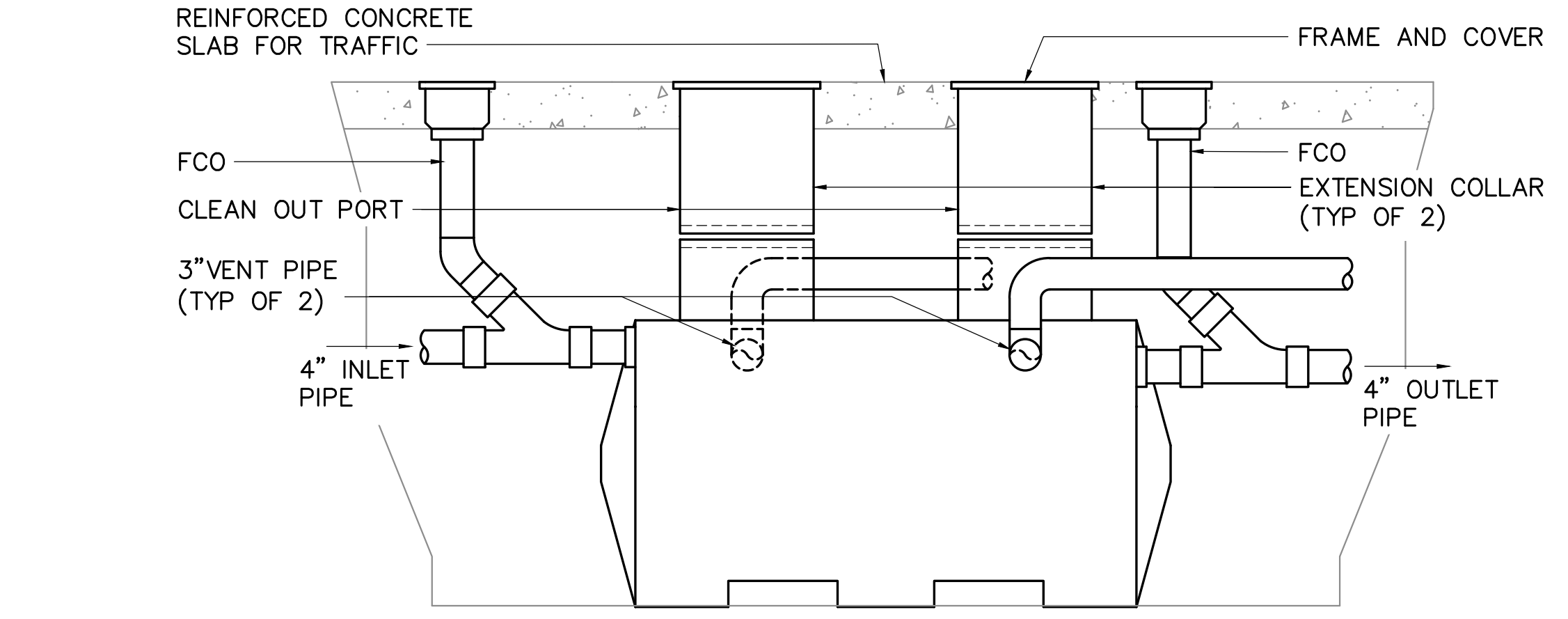
2 FLOOR/YARD CLEANOUT DETAIL
M8.1 NTS



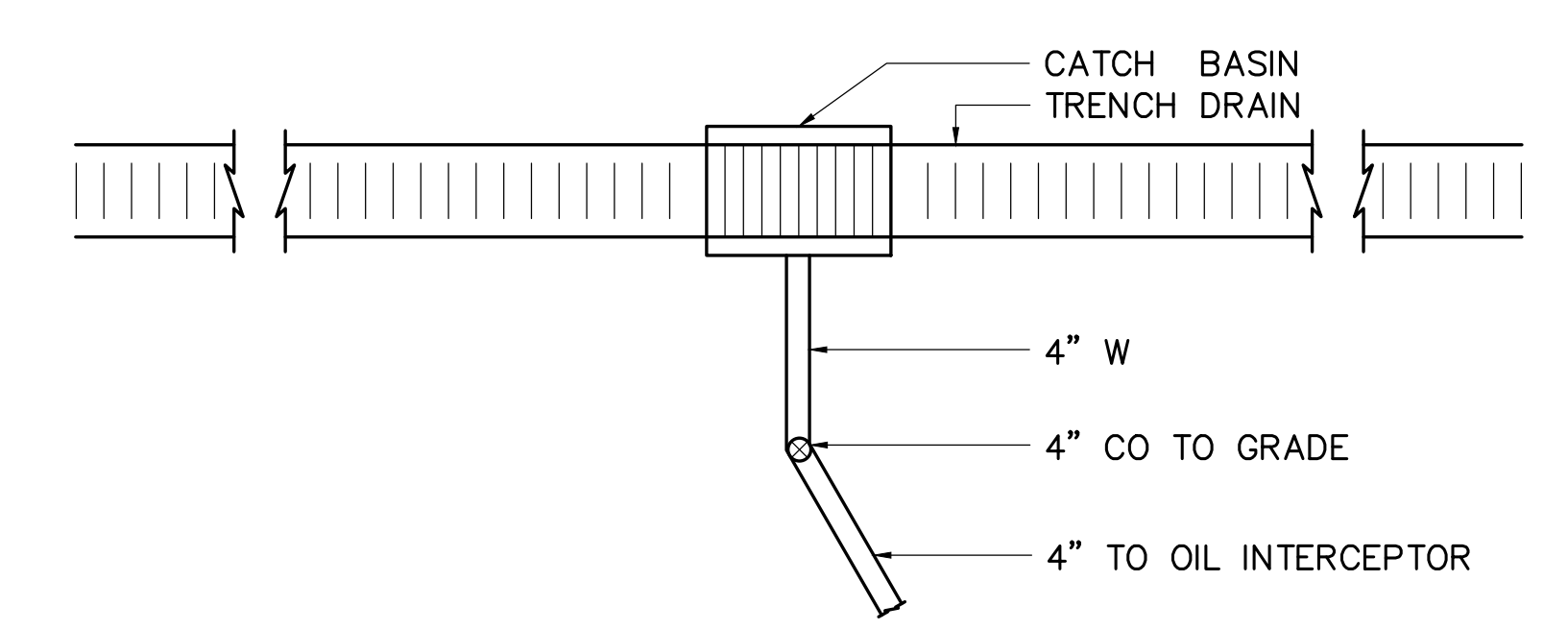
3 EXTERIOR HOSE BIBB DETAIL
M8.1 NTS



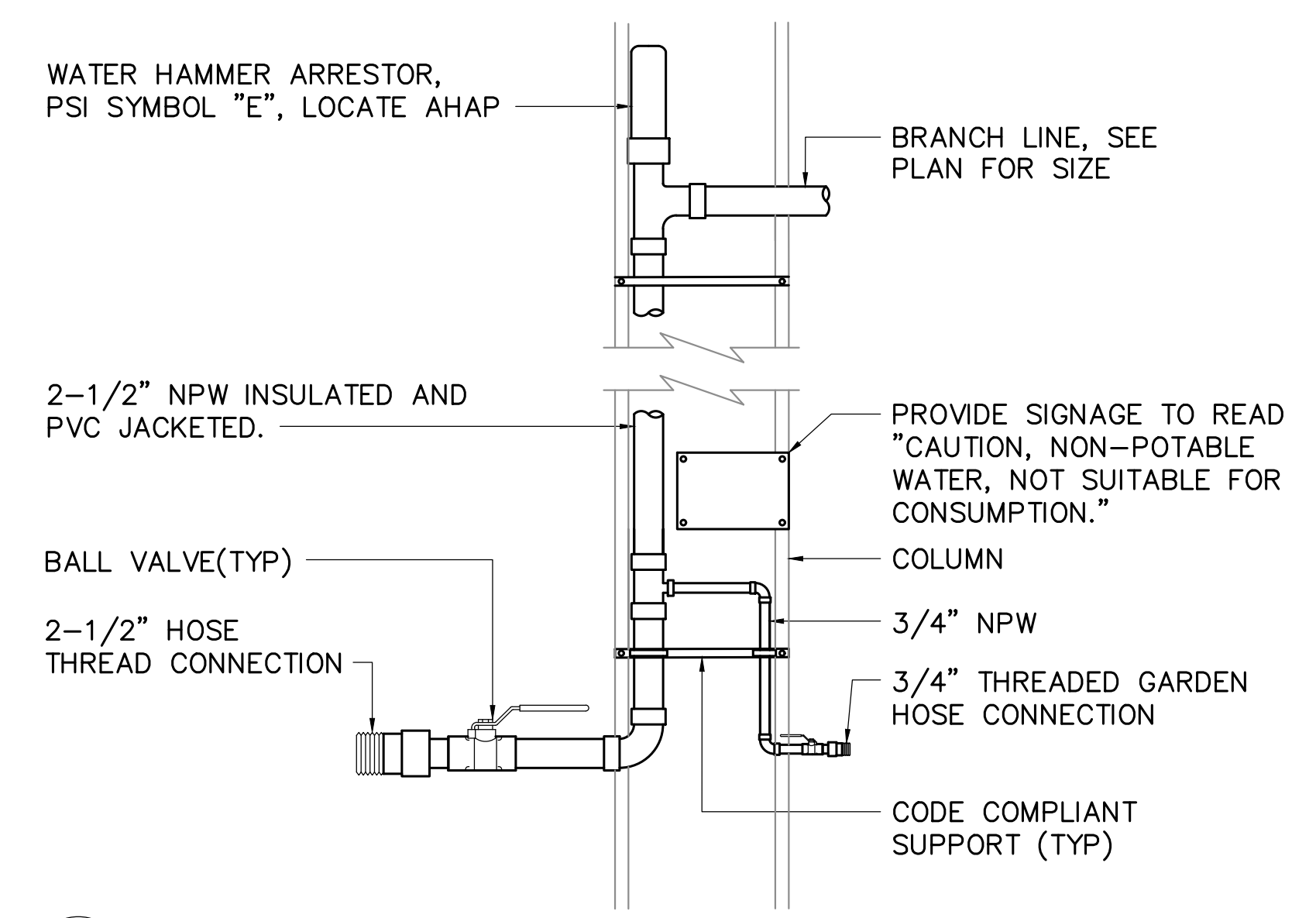
4 INTERIOR HOSE BIBB DETAIL
M8.1 NTS



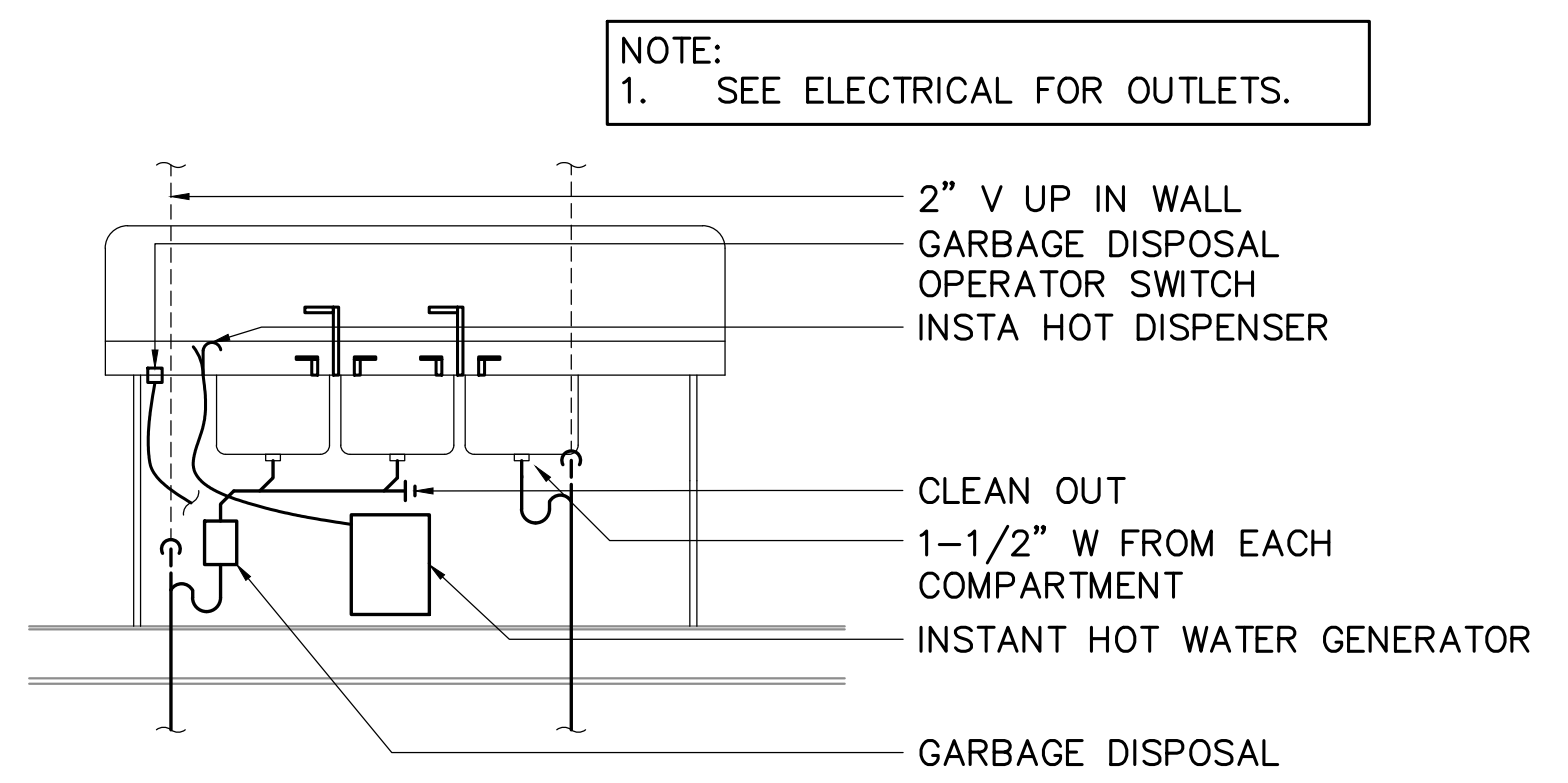
5 OIL-WATER SEPARATOR DETAIL
M8.1 NTS



6 TRENCH DRAIN DETAIL
M8.1 NTS

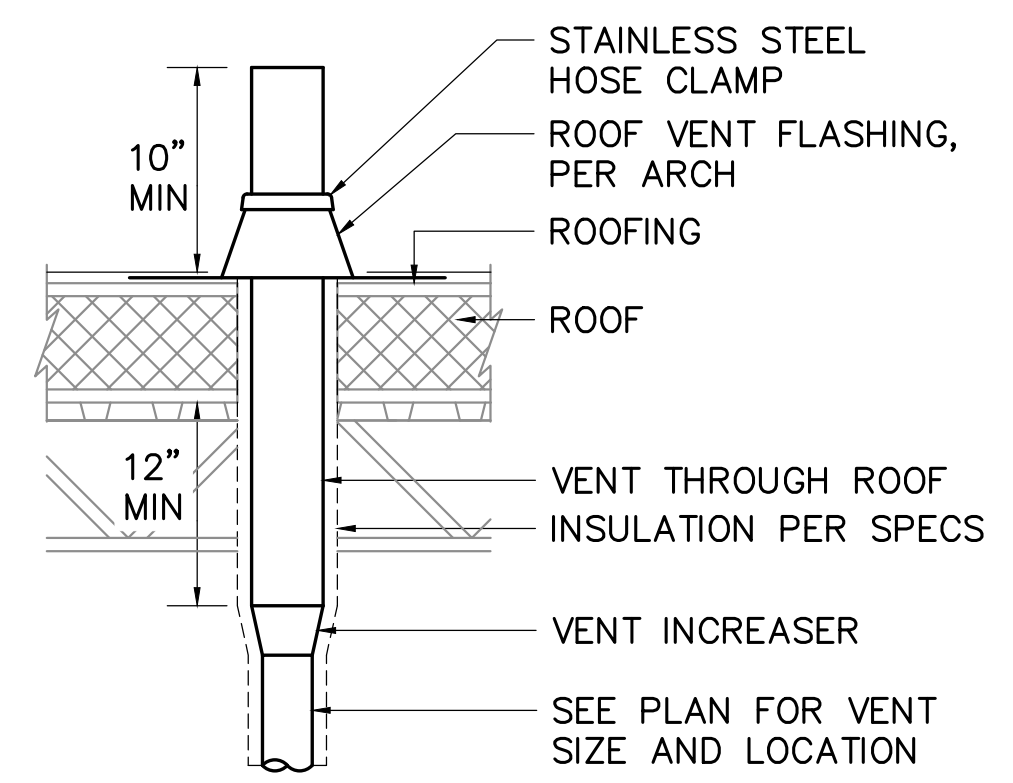


10 HOSE CONNECTION
M8.1 NTS

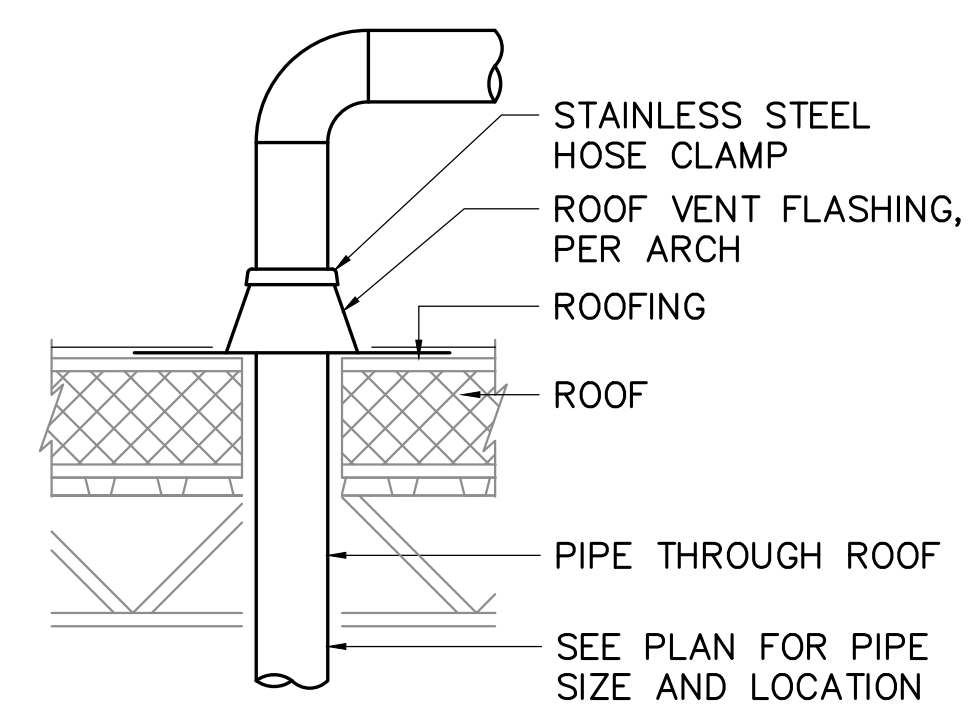


7 3-COMPARTMENT SINK DETAIL
M8.1 NTS

NOTE:
1. SEE ELECTRICAL FOR OUTLETS.



8 VTR DETAIL
M8.1 NTS



9 PIPE THROUGH ROOF DETAIL
M8.1 NTS

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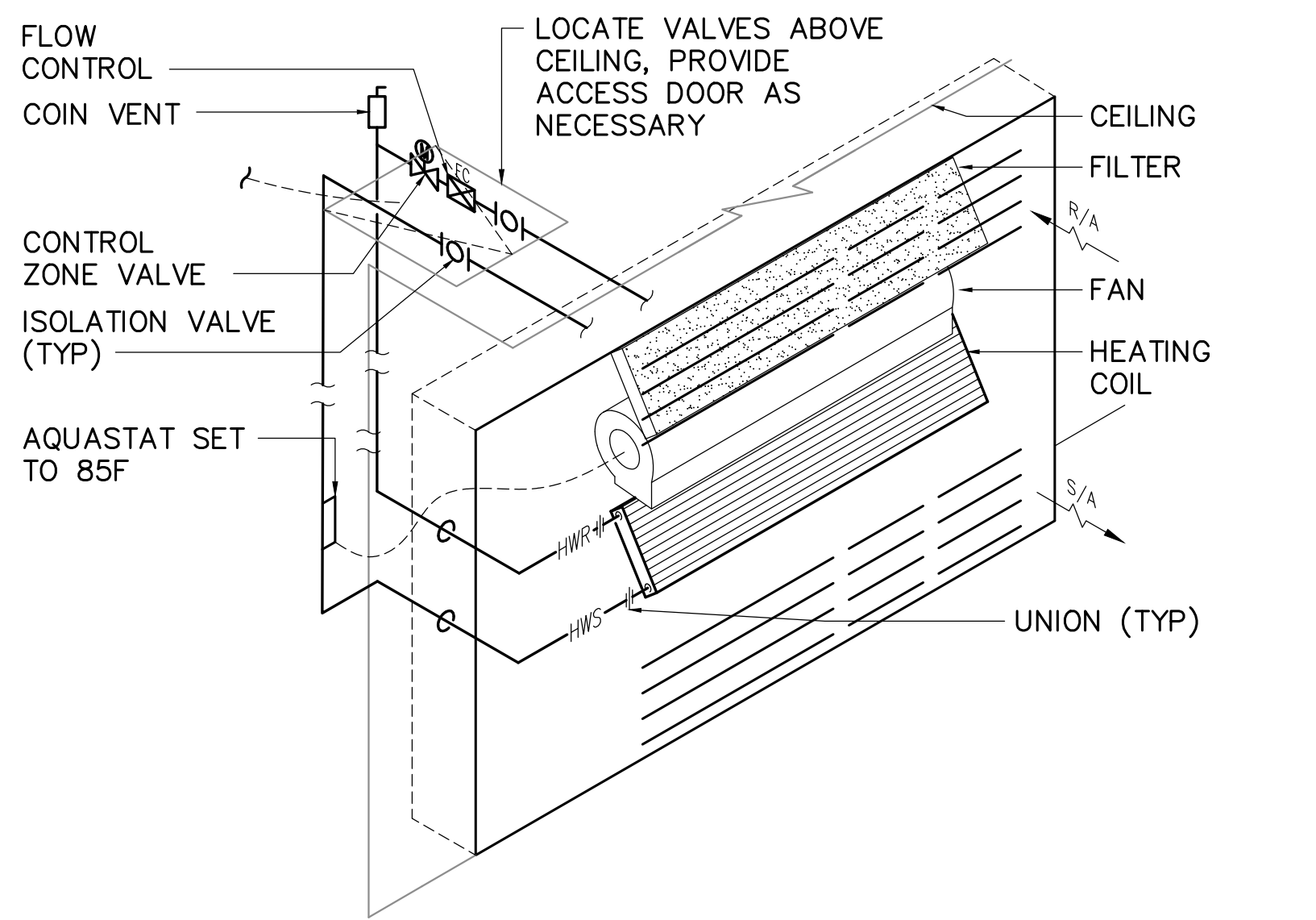
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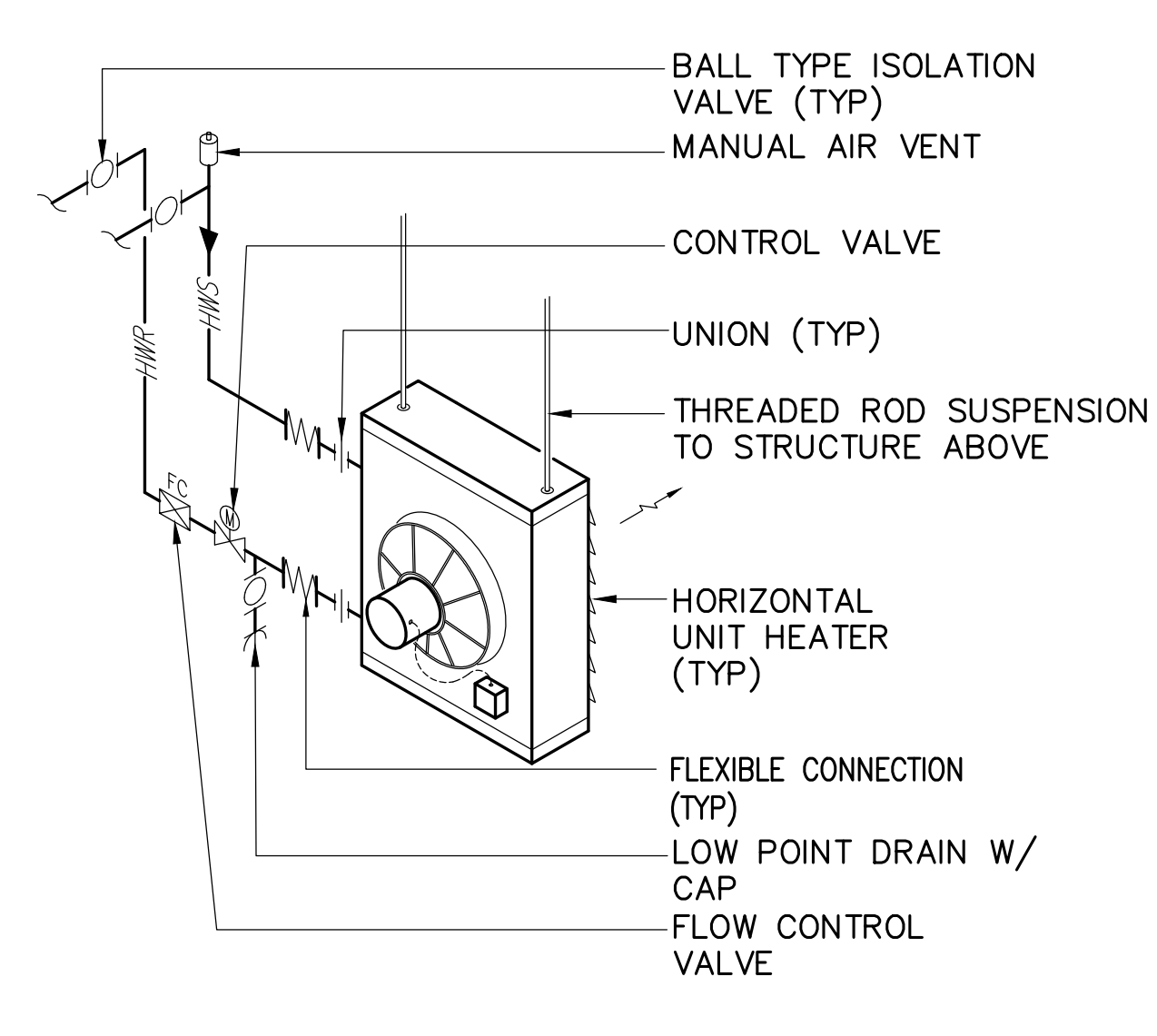
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REGISTERED PROFESSIONAL ENGINEER
ME-119794
4/26/22
SEAL

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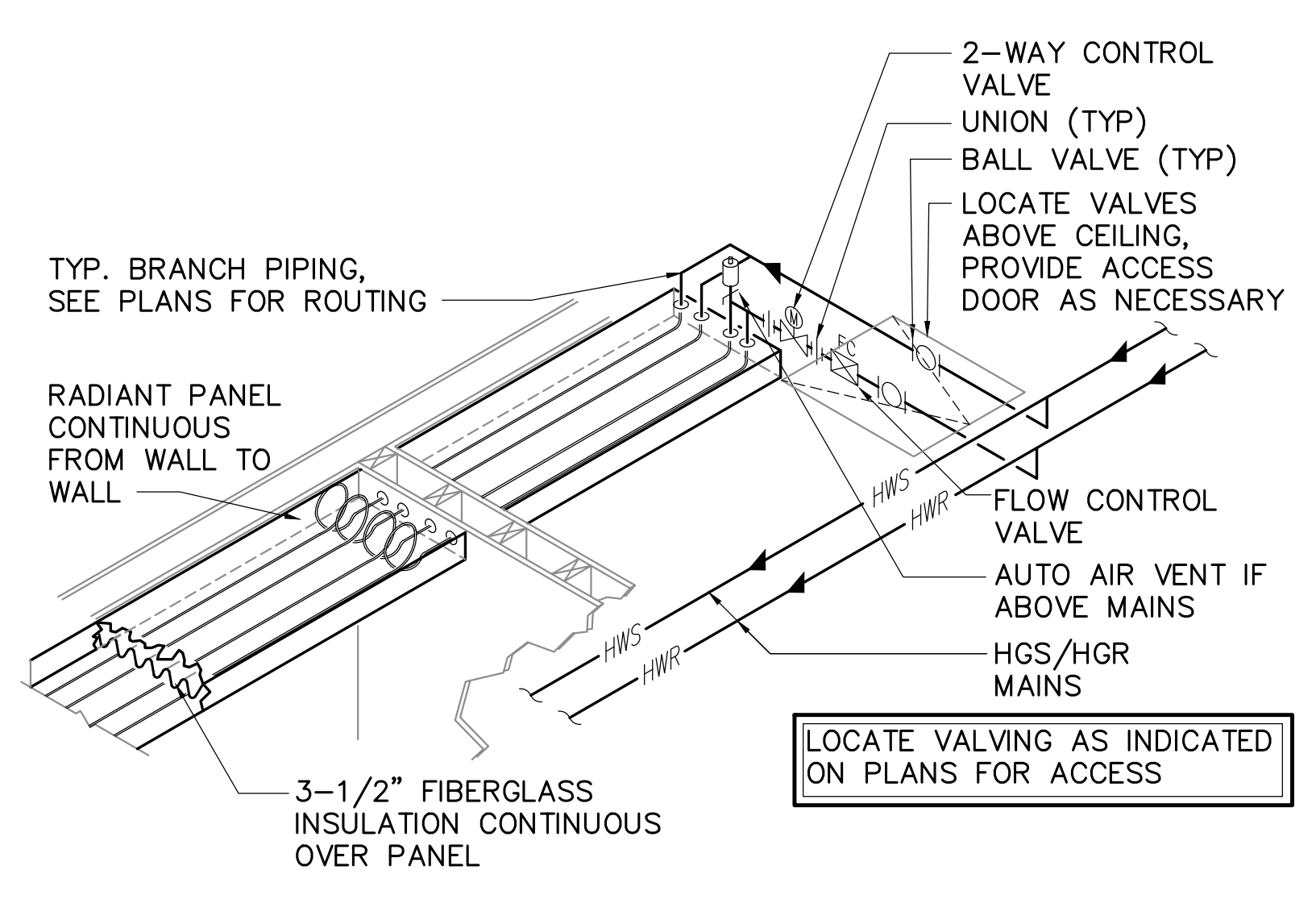
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
MECHANICAL DETAILS
DWG M8.1
HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775
SHEET 240 of 288



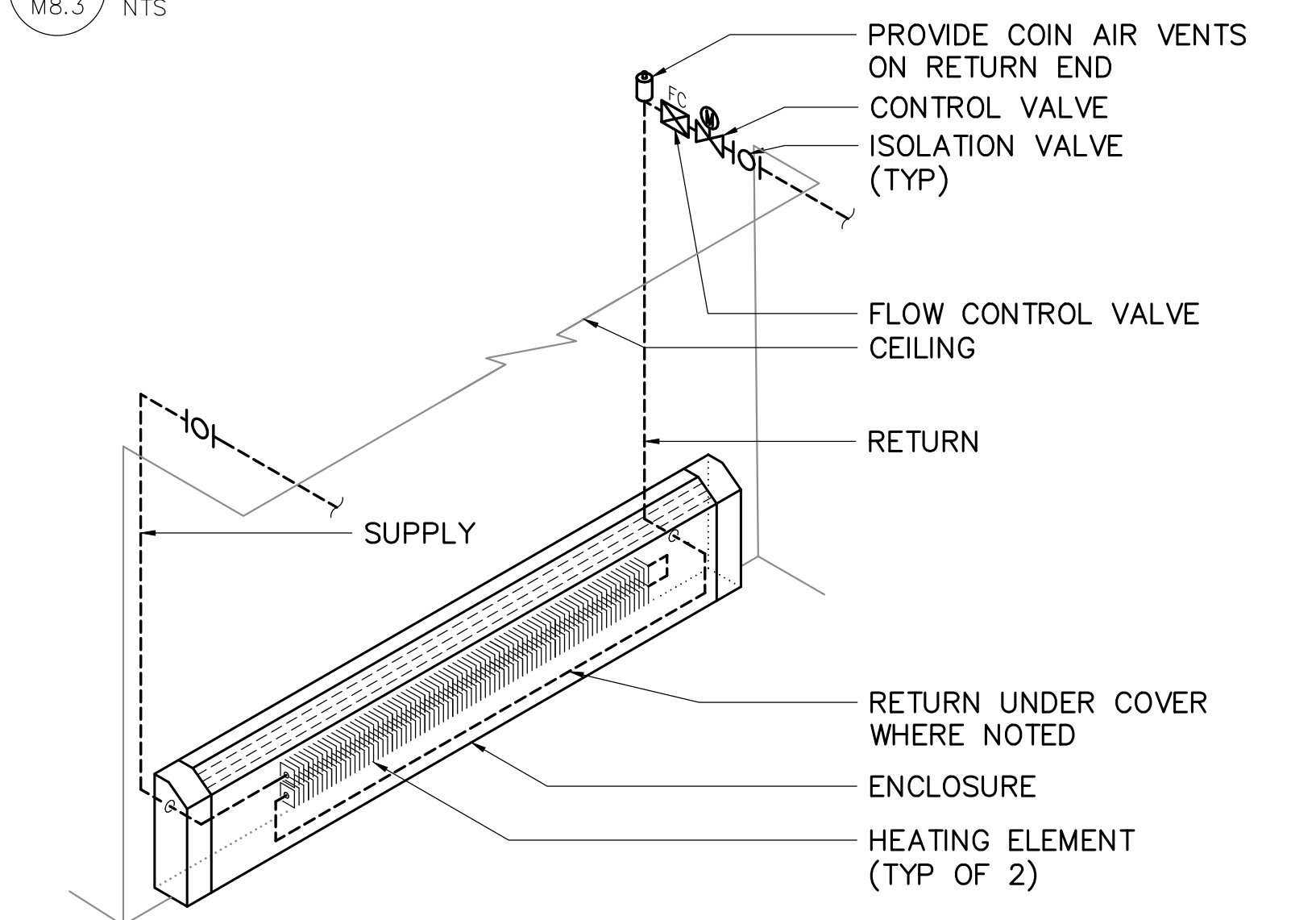
1 CABINET UNIT HEATER DETAIL
M8.3 NTS



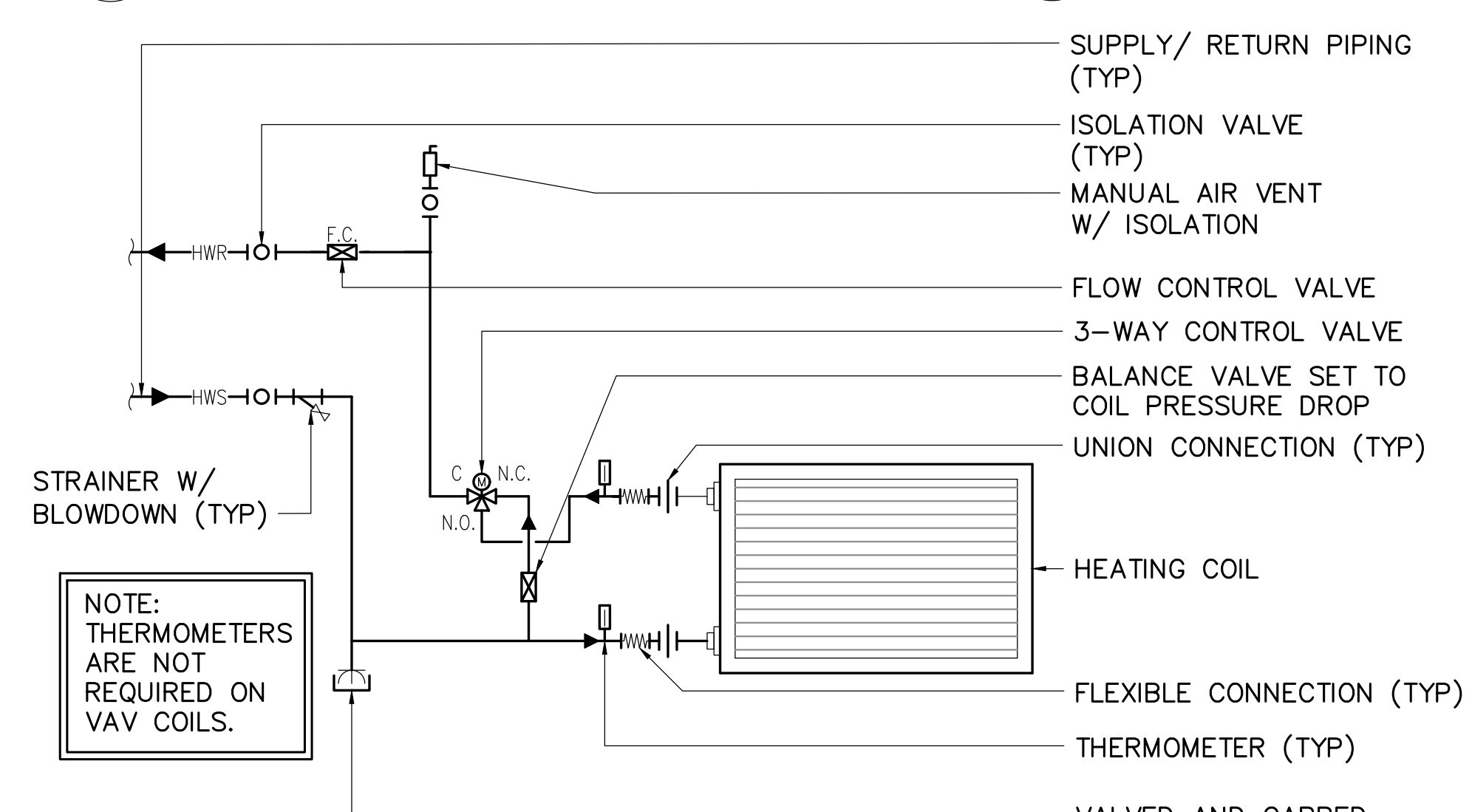
2 HORIZONTAL UNIT HEATER DETAIL
M8.3 NTS



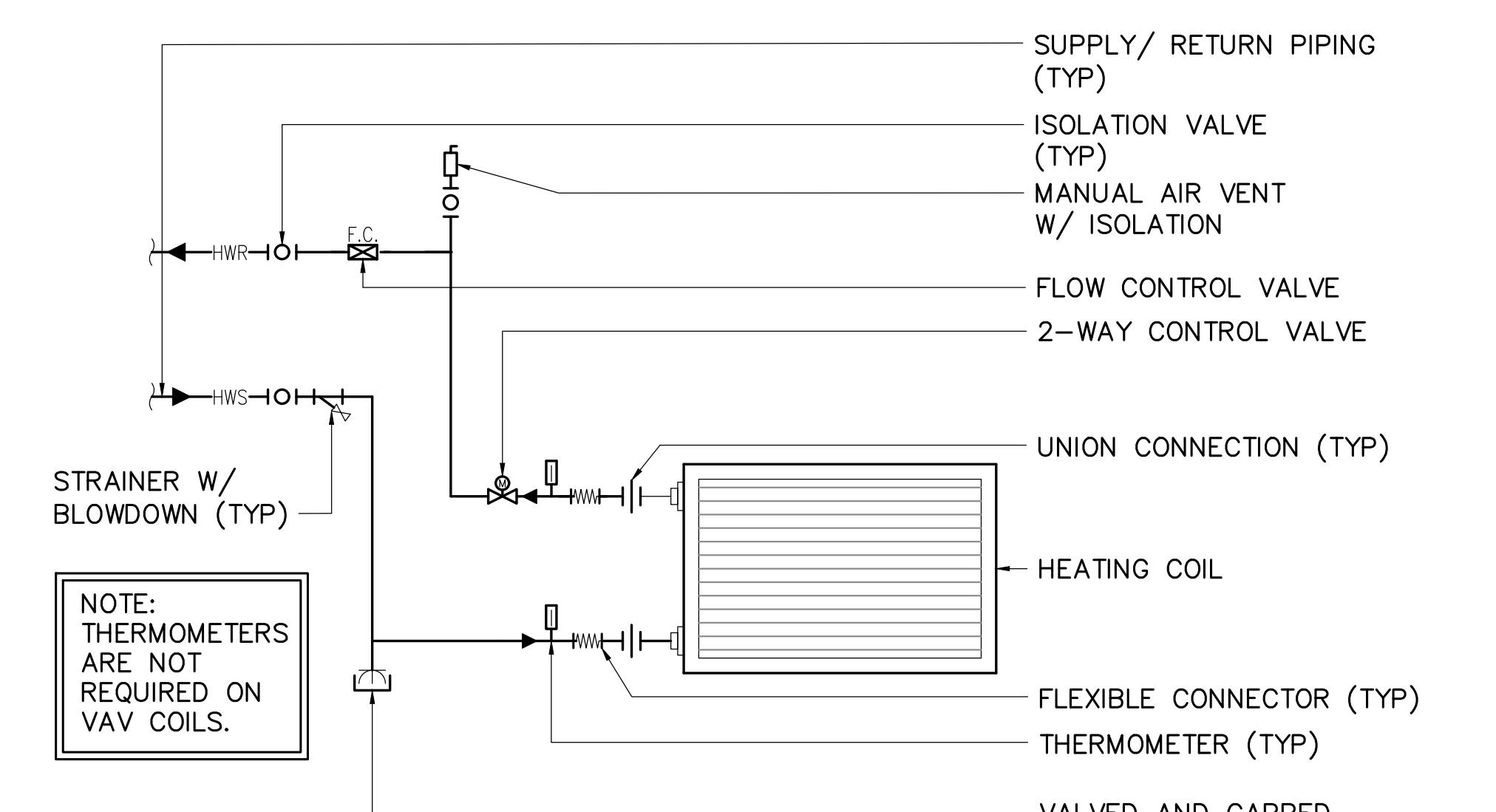
3 RADIANT PANEL DETAIL
M8.3 NTS



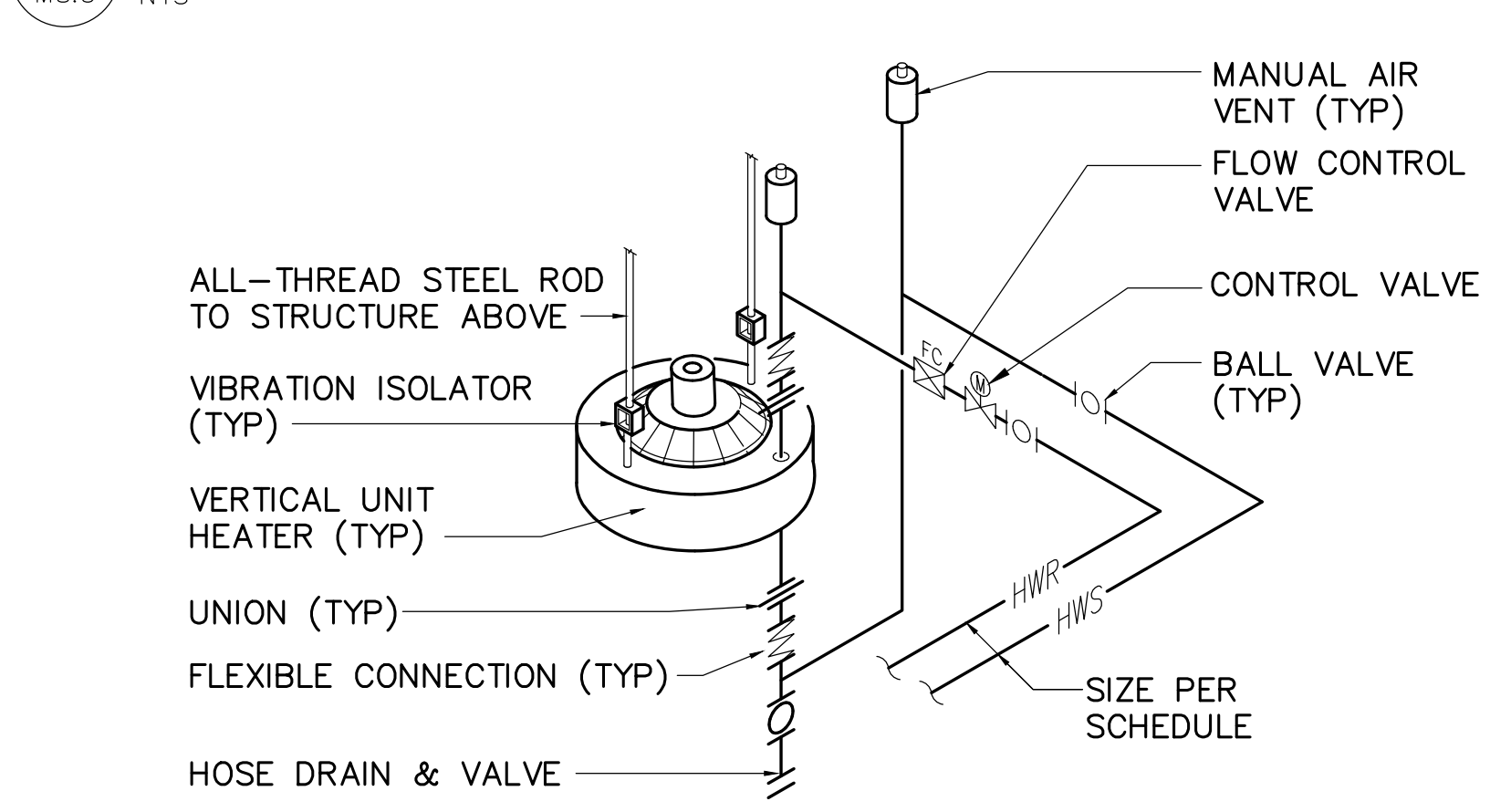
4 2 ELEMENT FIN TUBE DETAIL
M8.3 NTS



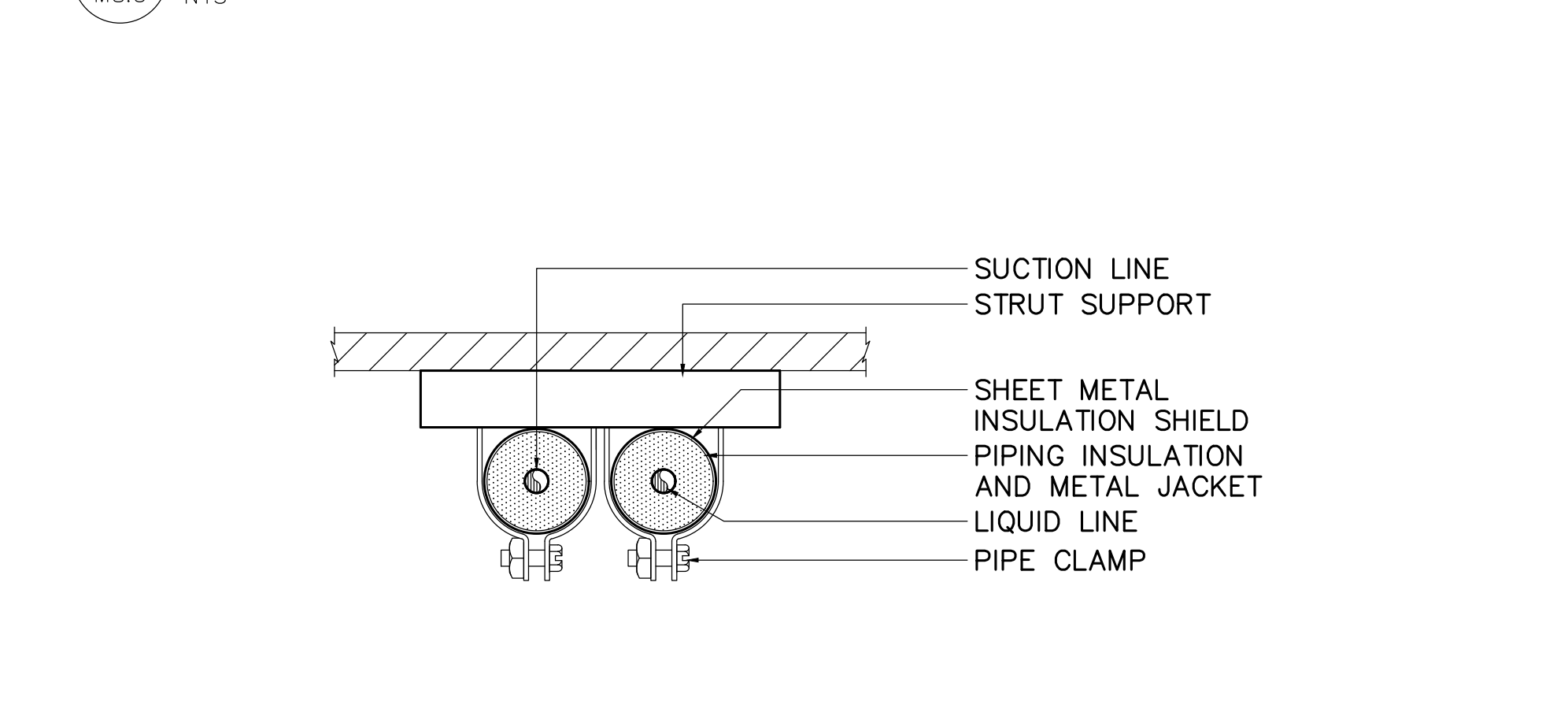
5 3-WAY VALVE HEATING COIL DETAIL
M8.3 NTS



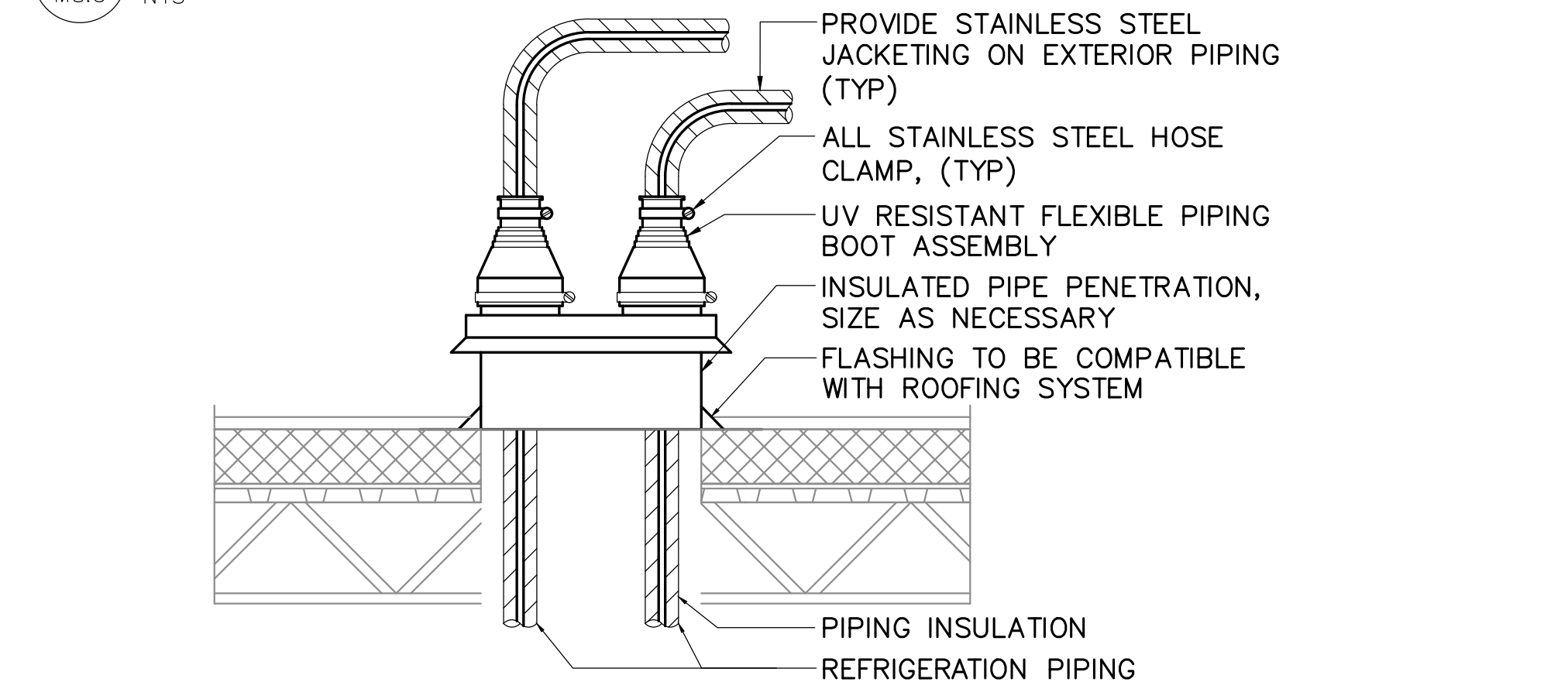
6 2-WAY VALVE HEATING COIL DETAIL
M8.3 NTS



7 VERTICAL UNIT HEATER DETAIL
M8.3 NTS



8 REFRIGERANT PIPING SUPPORT DETAIL
M8.3 NTS



9 PIPING ROOF PENETRATION DETAIL
M8.3 NTS

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

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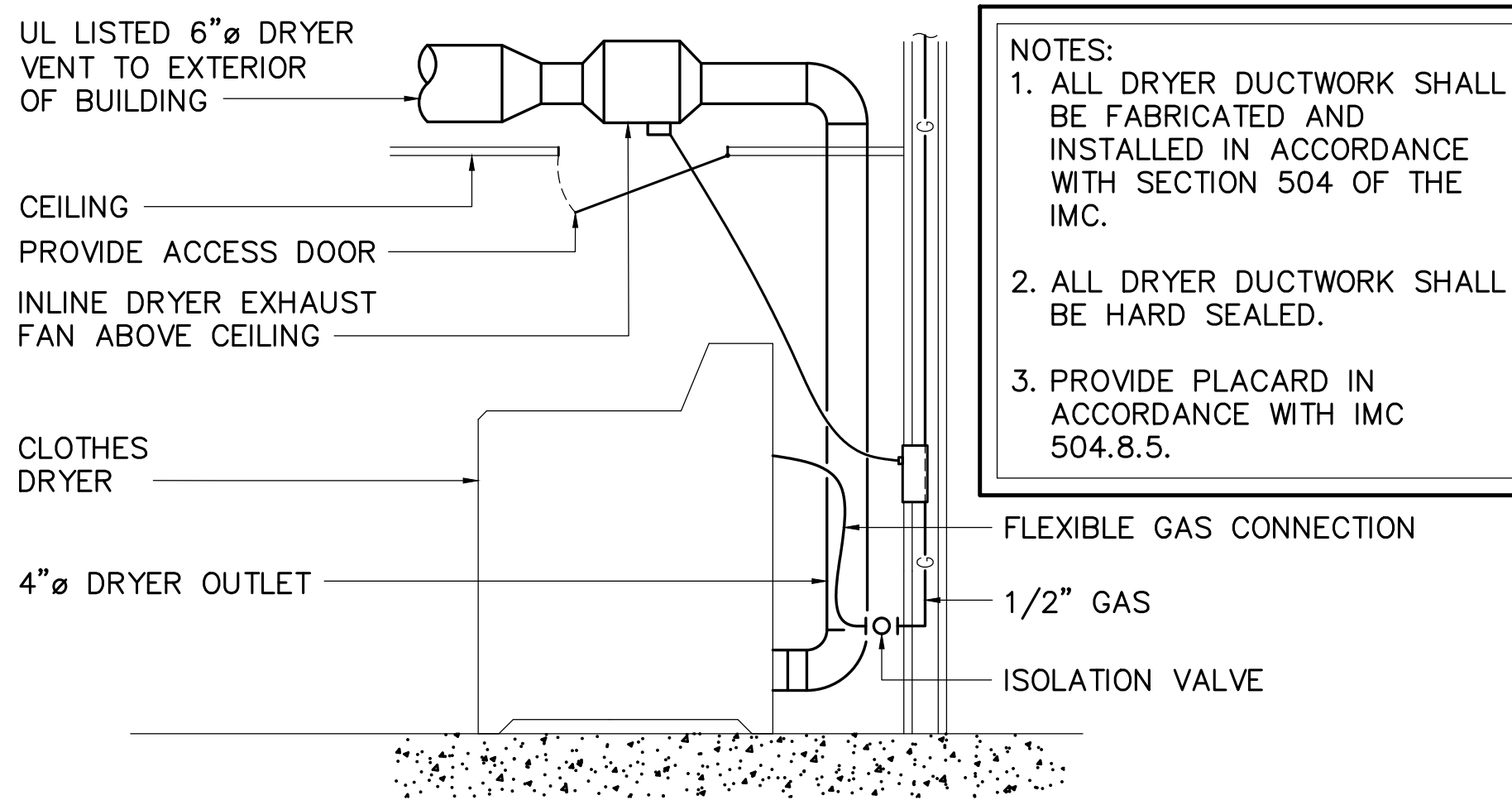
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4/20/20
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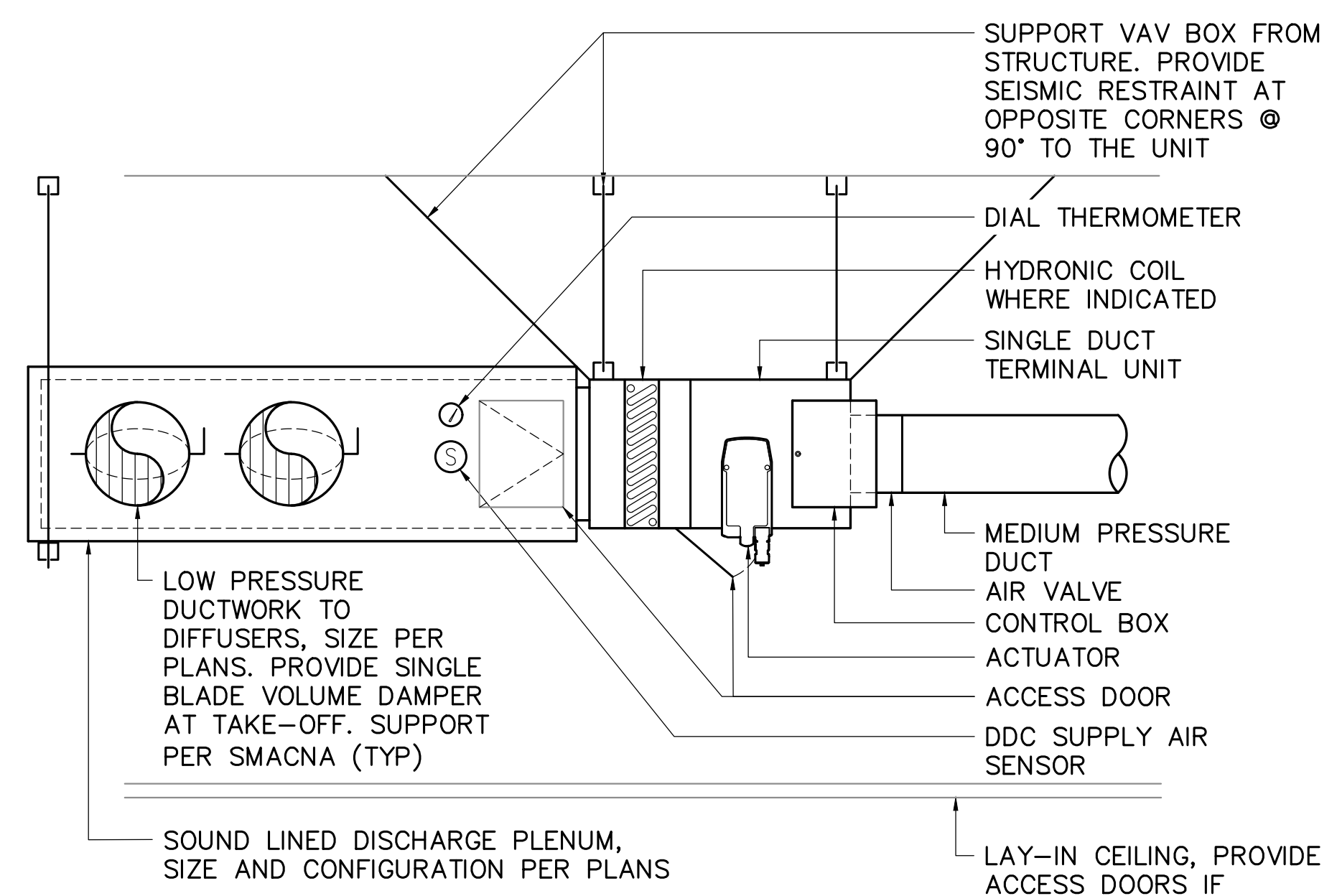
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
MECHANICAL DETAILS
M8.3
HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775
SHEET 242 of 288

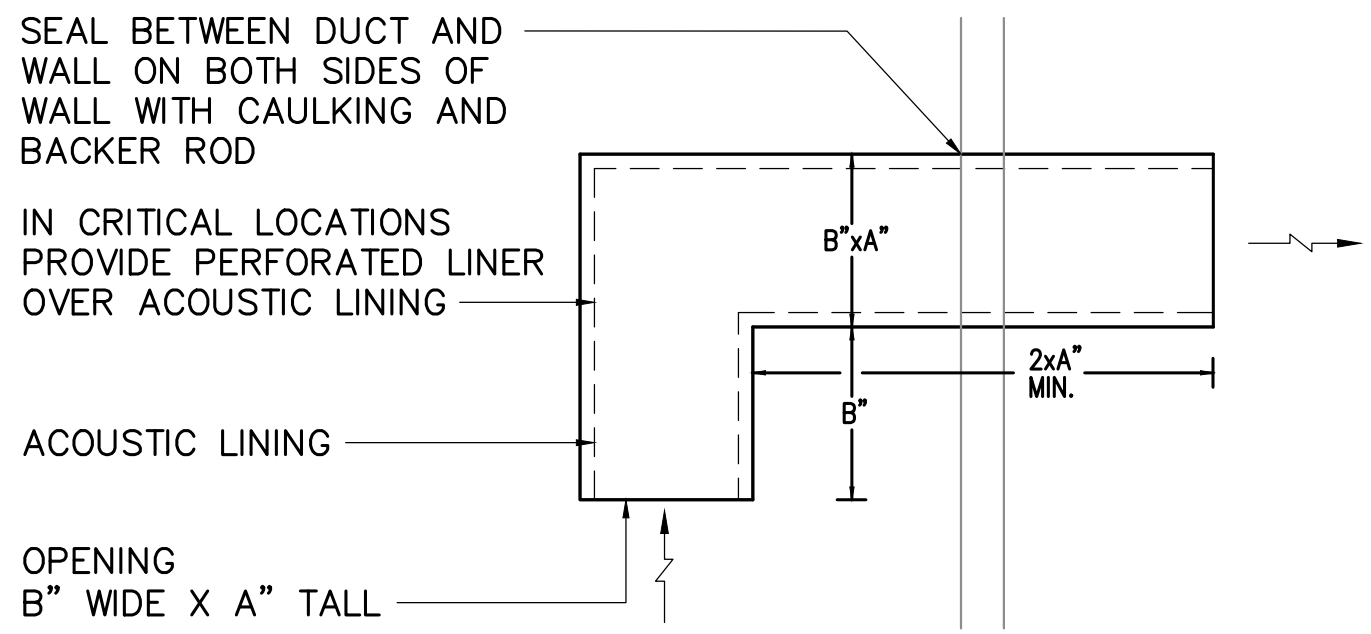


NOTES:
1. ALL DRYER DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SECTION 504 OF THE IMC.
2. ALL DRYER DUCTWORK SHALL BE HARD SEALED.
3. PROVIDE PLACARD IN ACCORDANCE WITH IMC 504.8.5.

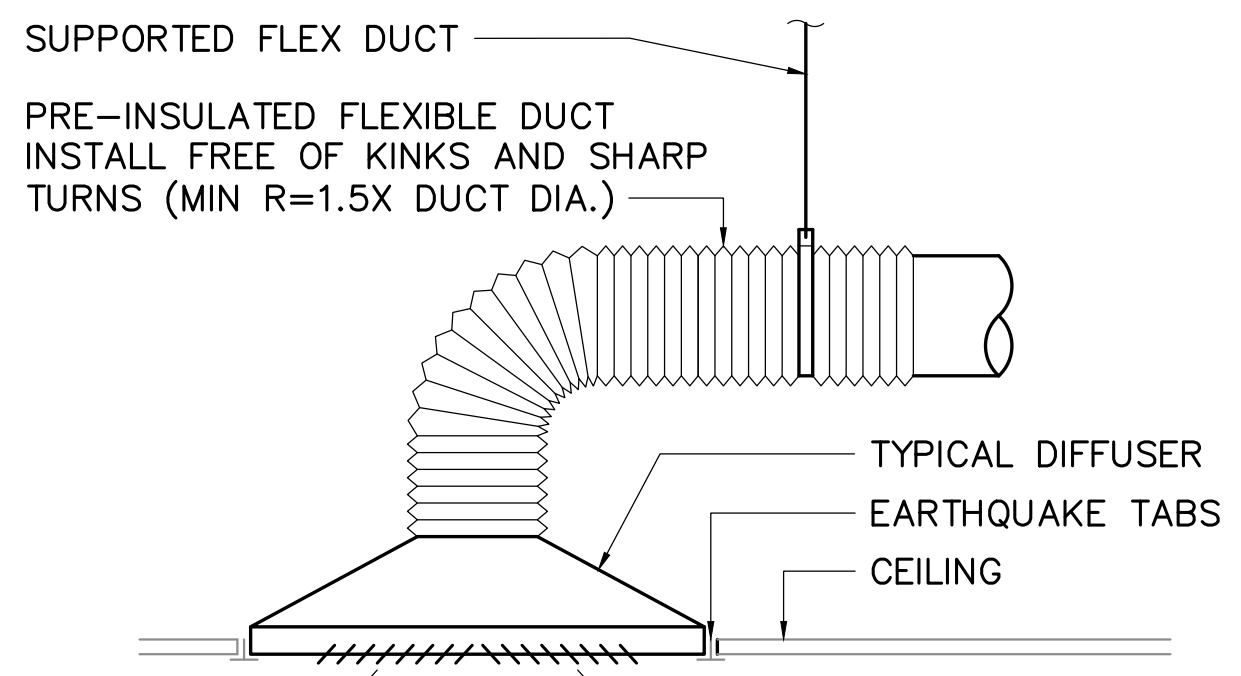
1 DRYER BOOSTER FAN DETAIL
M8.4 NTS



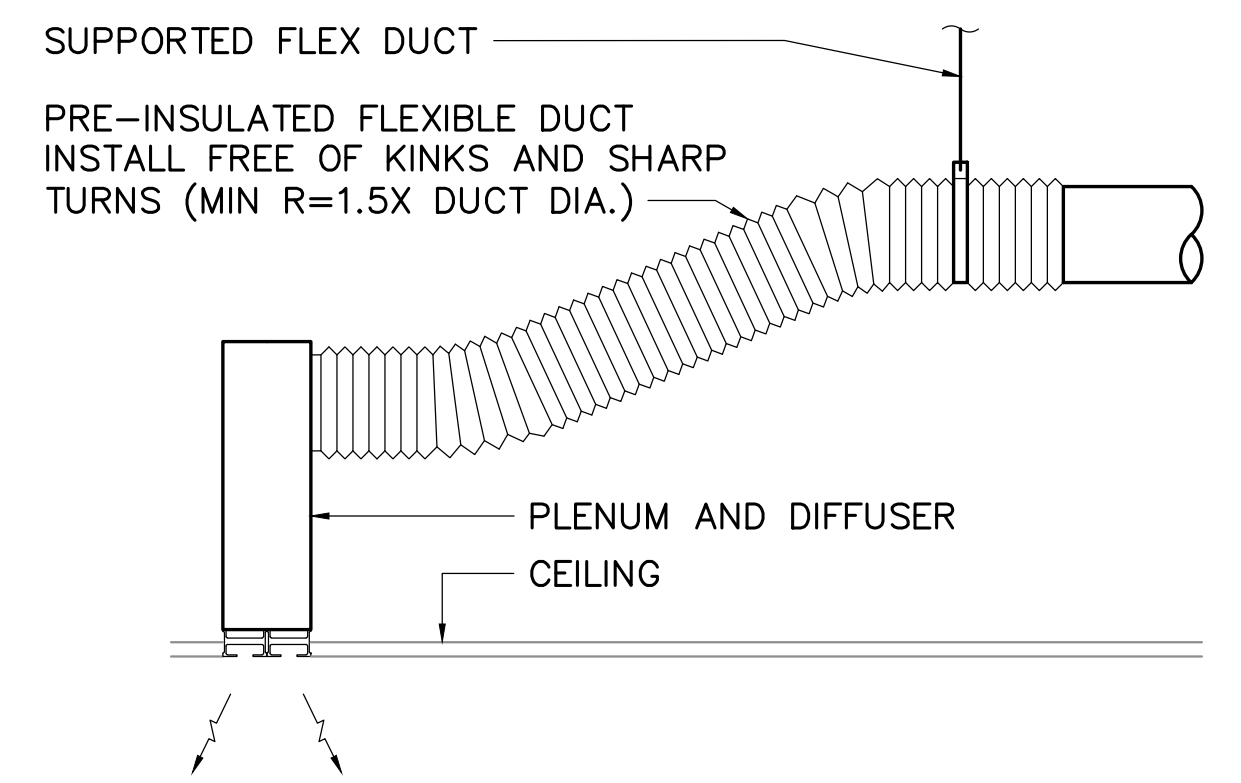
2 VAV BOX DETAIL
M8.4 NTS



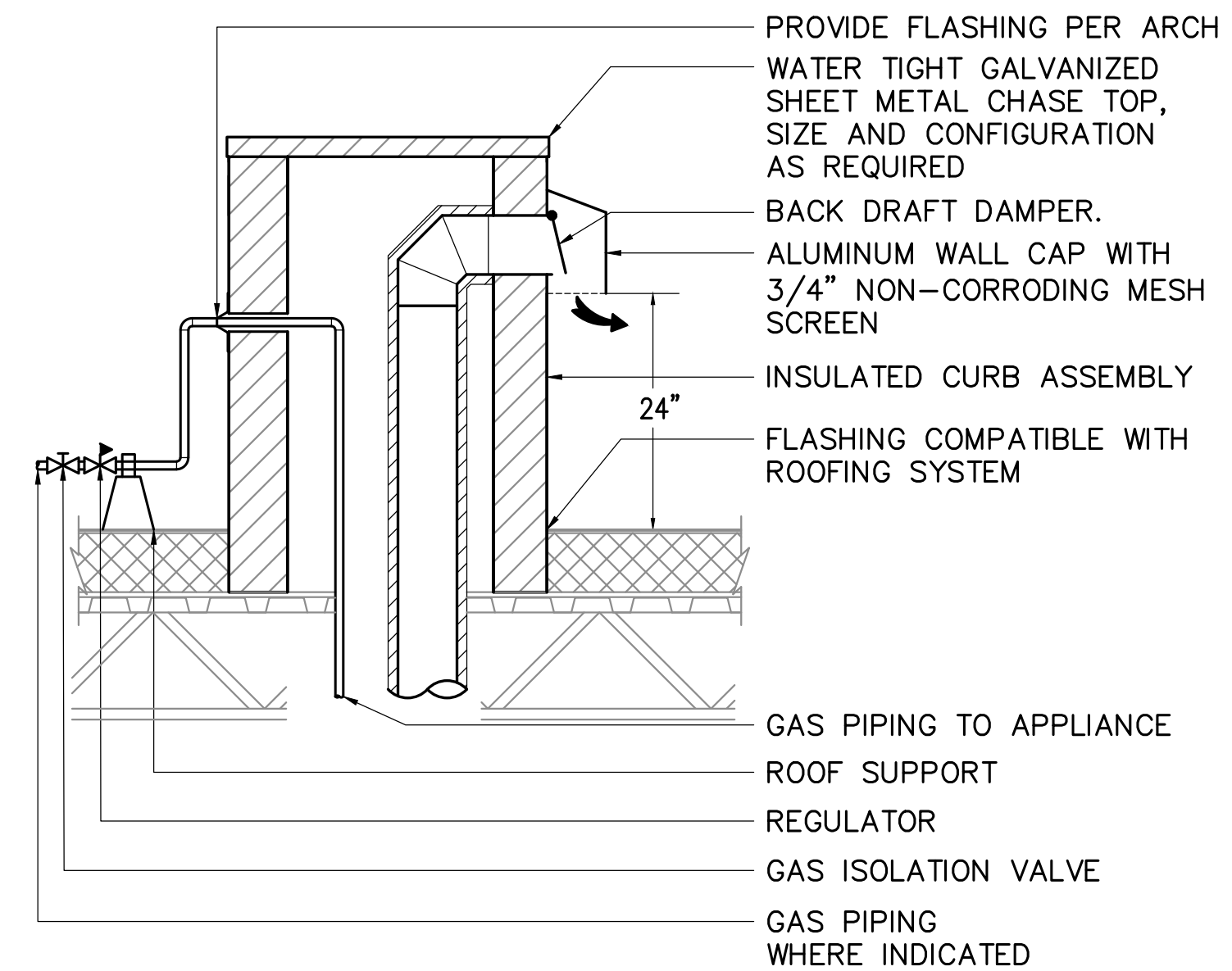
3 TRANSFER BOX DETAIL
M8.4 NTS



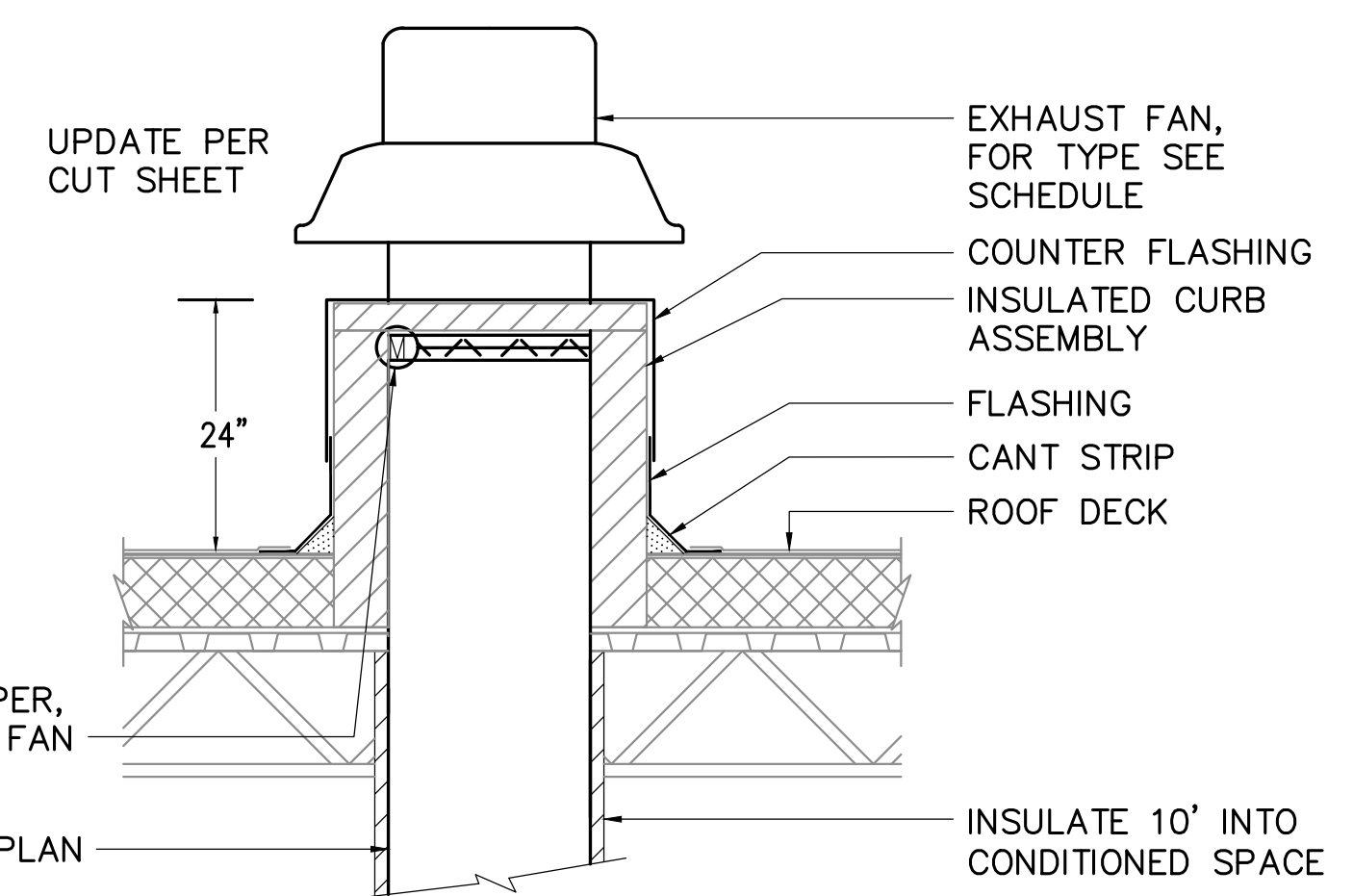
4 CEILING DIFFUSER DETAIL
M8.4 NTS



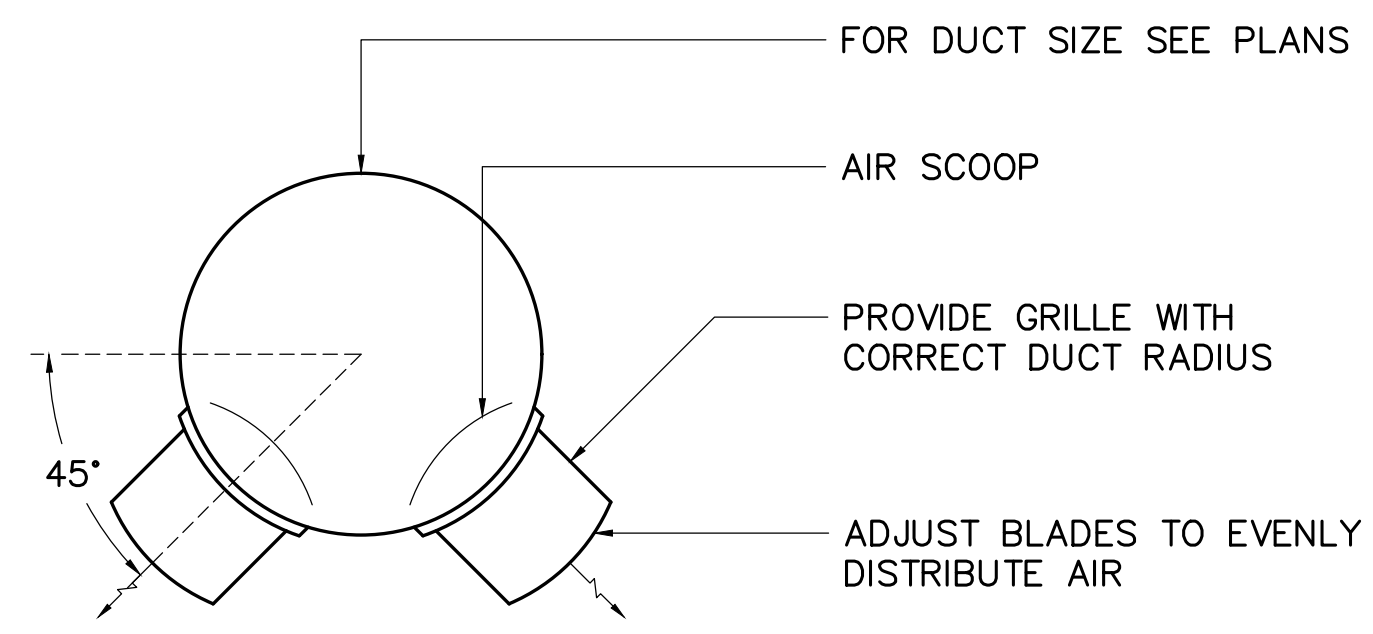
5 CEILING SLOT DIFFUSER DETAIL
M8.4 NTS



6 RANGE HOOD TERMINATION DETAIL
M8.4 NTS



7 ROOF MOUNTED EXHAUST FAN DETAIL
M8.4 NTS



8 SIDE DUCT DIFFUSER DETAIL
M8.4 NTS

REV	DATE	DESCRIPTION	BY

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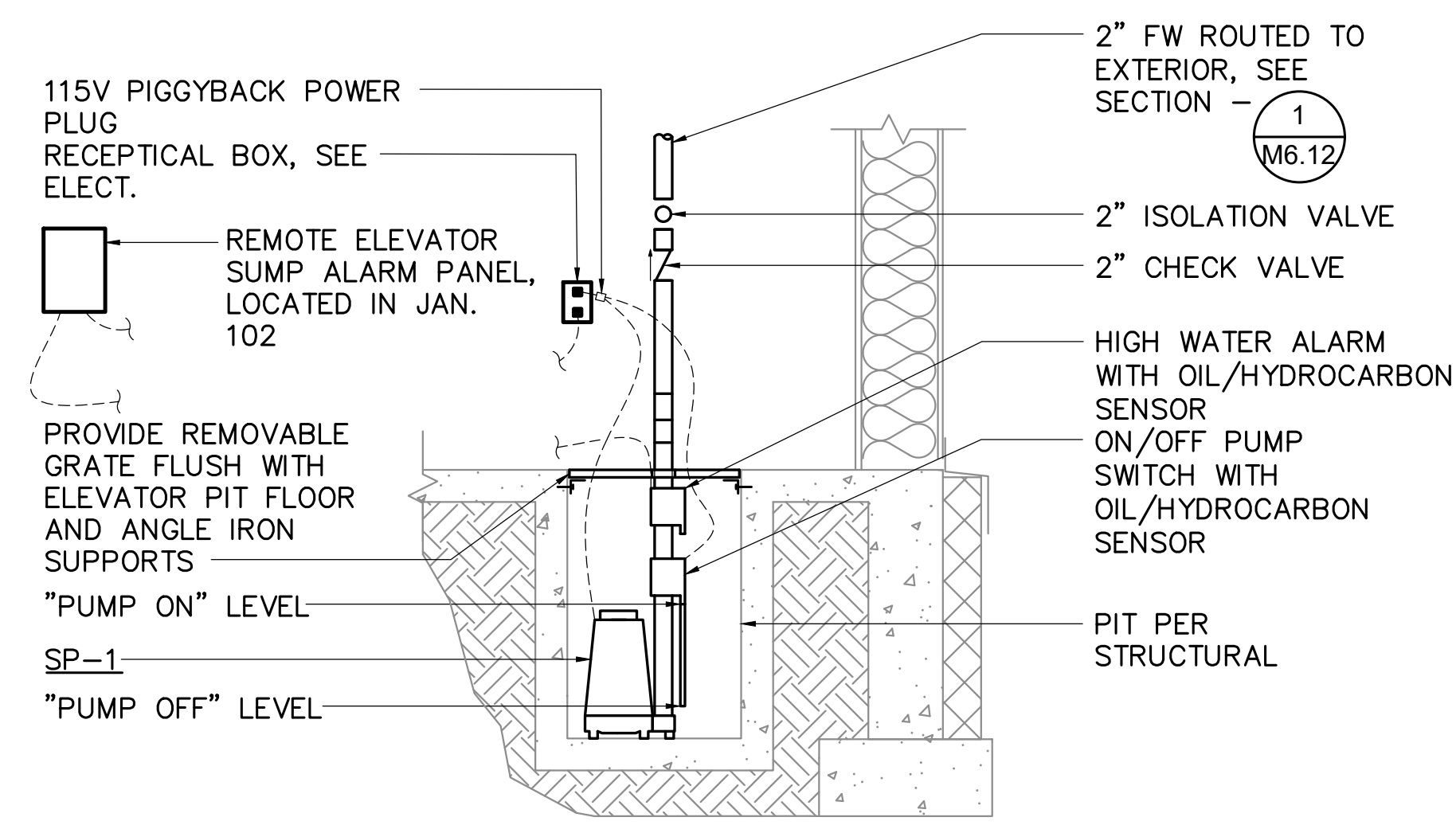
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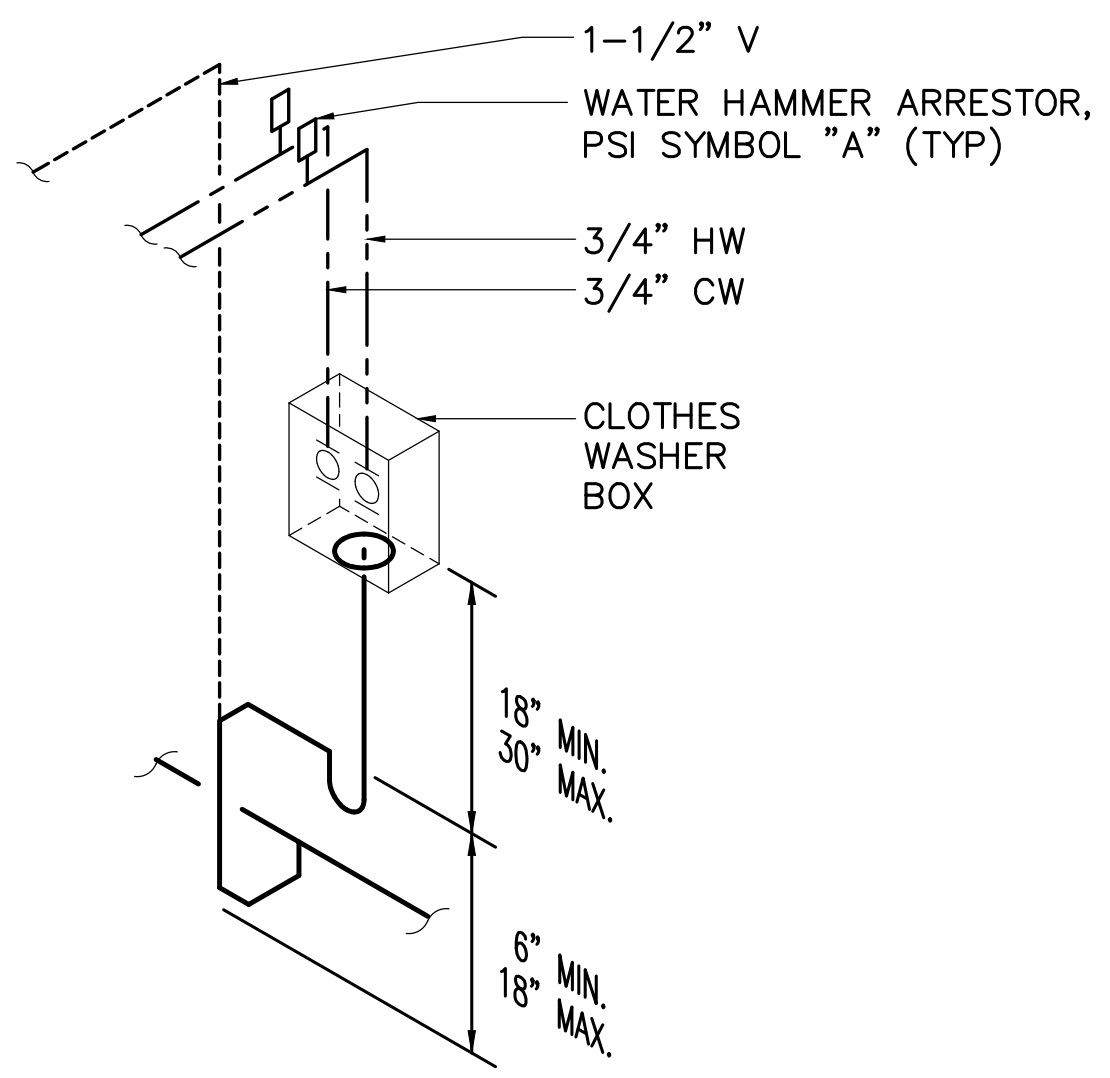
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ME-118794
4/2/2021
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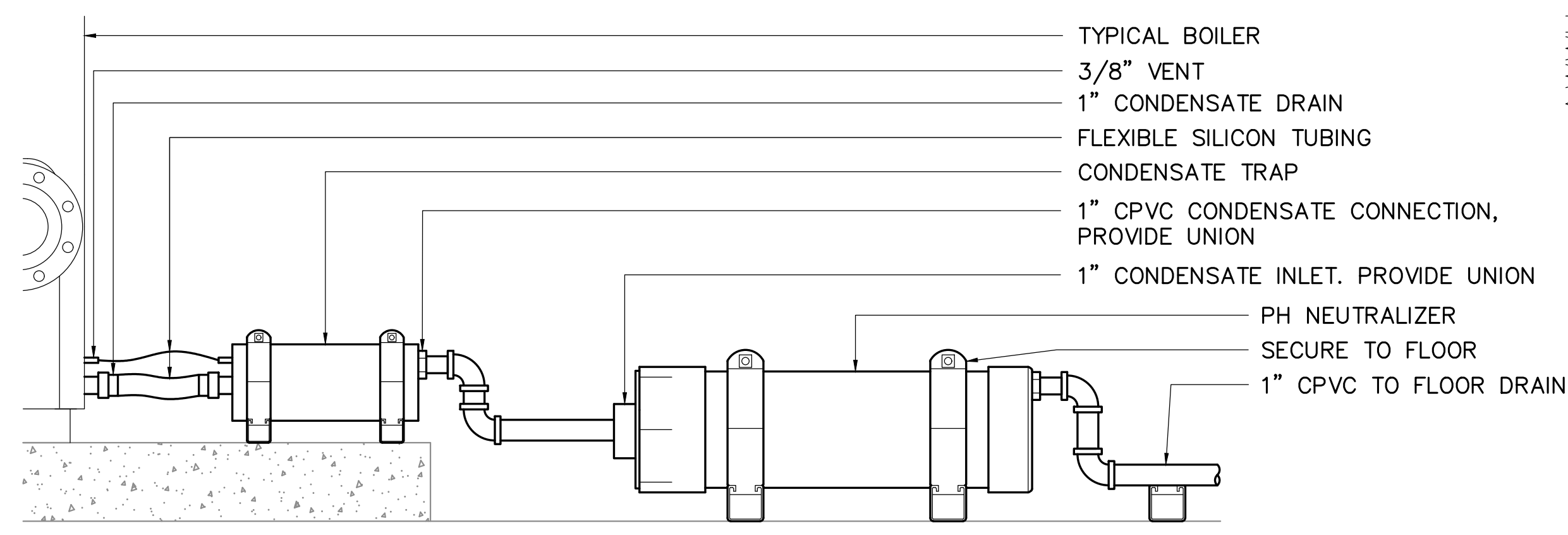
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WATER & WASTEWATER UTILITY
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
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DWG **M8.4**
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PROJ. ID.: WW.H7775
SHEET 243 of 288



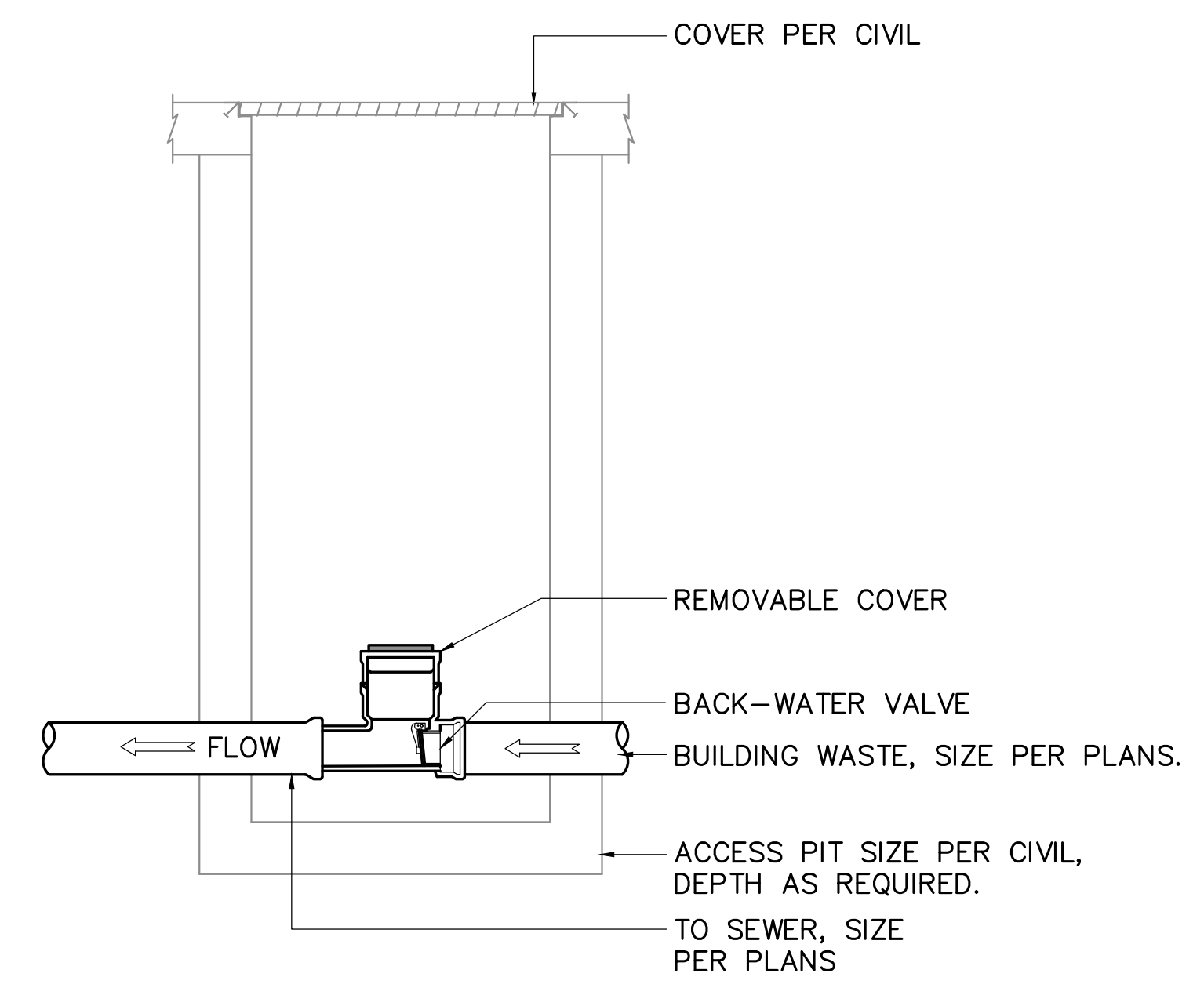
1 ELEVATOR SUMP PUMP DETAIL
M8.5 NTS



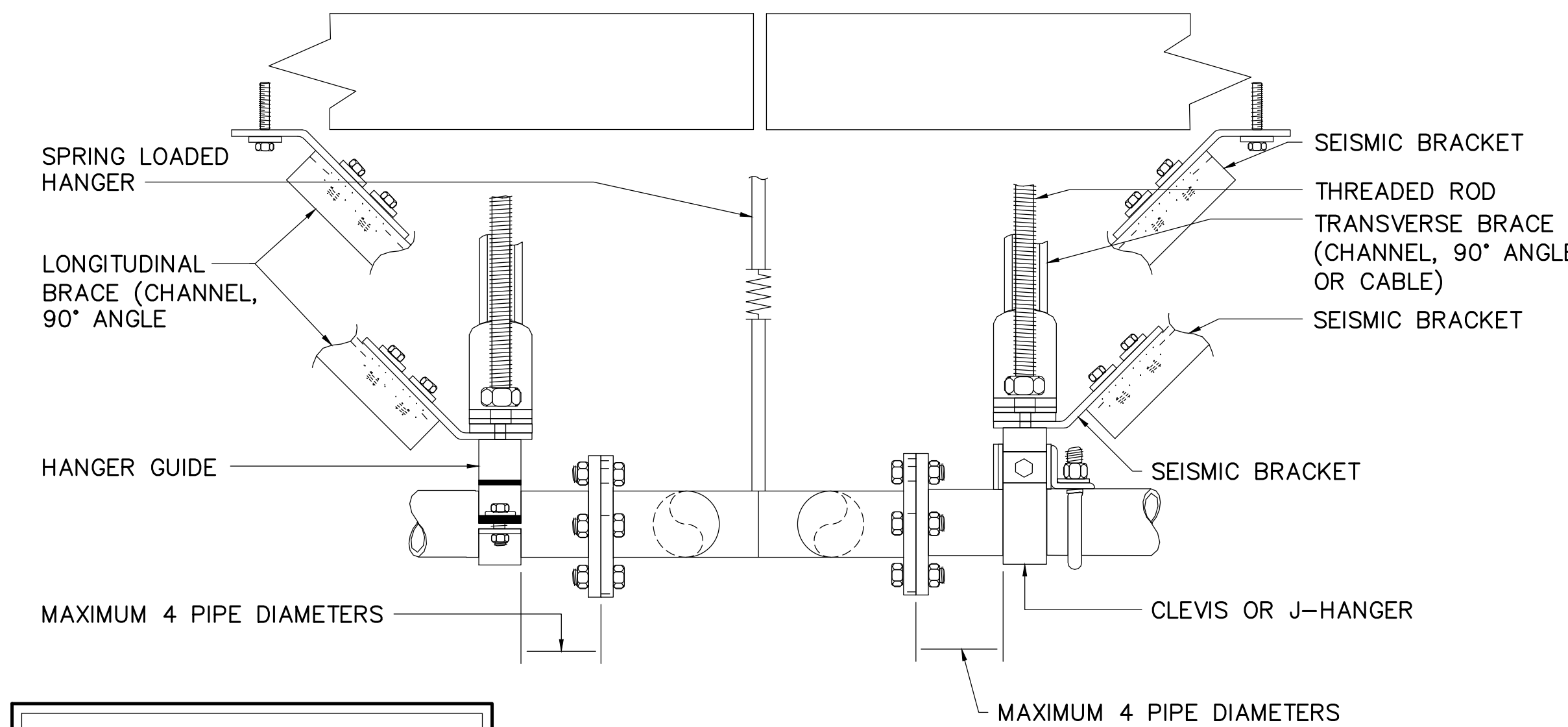
2 CLOTHES WASHER BOX DETAIL
M8.5 NTS



3 CONDENSATE DRAIN DETAIL
M8.5 NTS

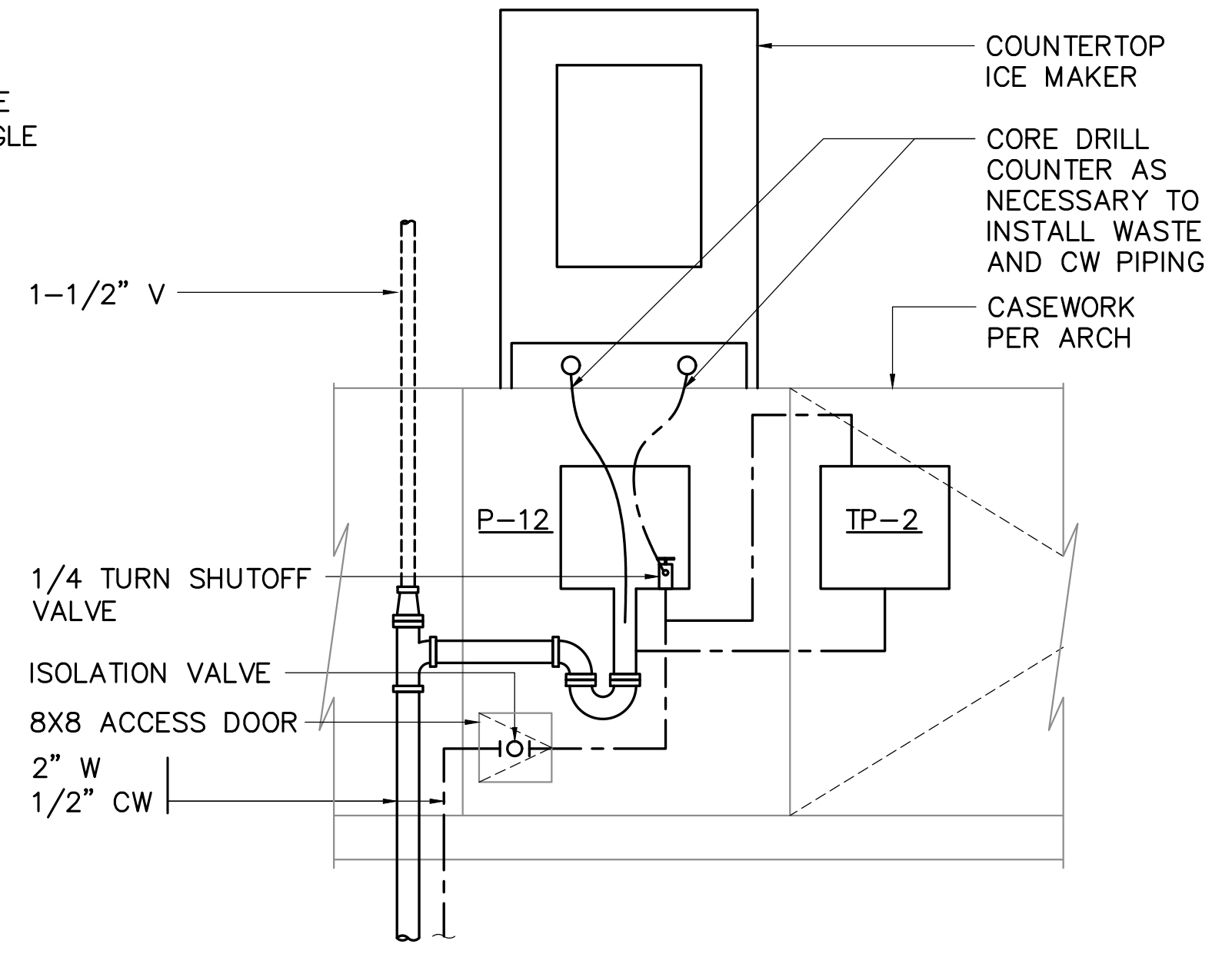


4 BACK WATER VALVE DETAIL
M8.5 NTS



NOTE:
INSULATION SHALL BE INSTALLED TO MAINTAIN PROPER VAPOR BARRIER WITHOUT INHIBITING, RESTRICTING, OR PREVENTING MOVEMENT TO THE FLEXIBLE LOOP.

5 SEISMIC LOOP DETAIL
M8.5 NTS



6 ICE MAKER TRAP PRIMER DETAIL
M8.5 NTS

REV	DATE	DESCRIPTION	BY

REVISIONS

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40th
ANDREW J. SCHIRACK
REGISTERED PROFESSIONAL ENGINEER
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4/26/22
SEAL

AWWU

MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

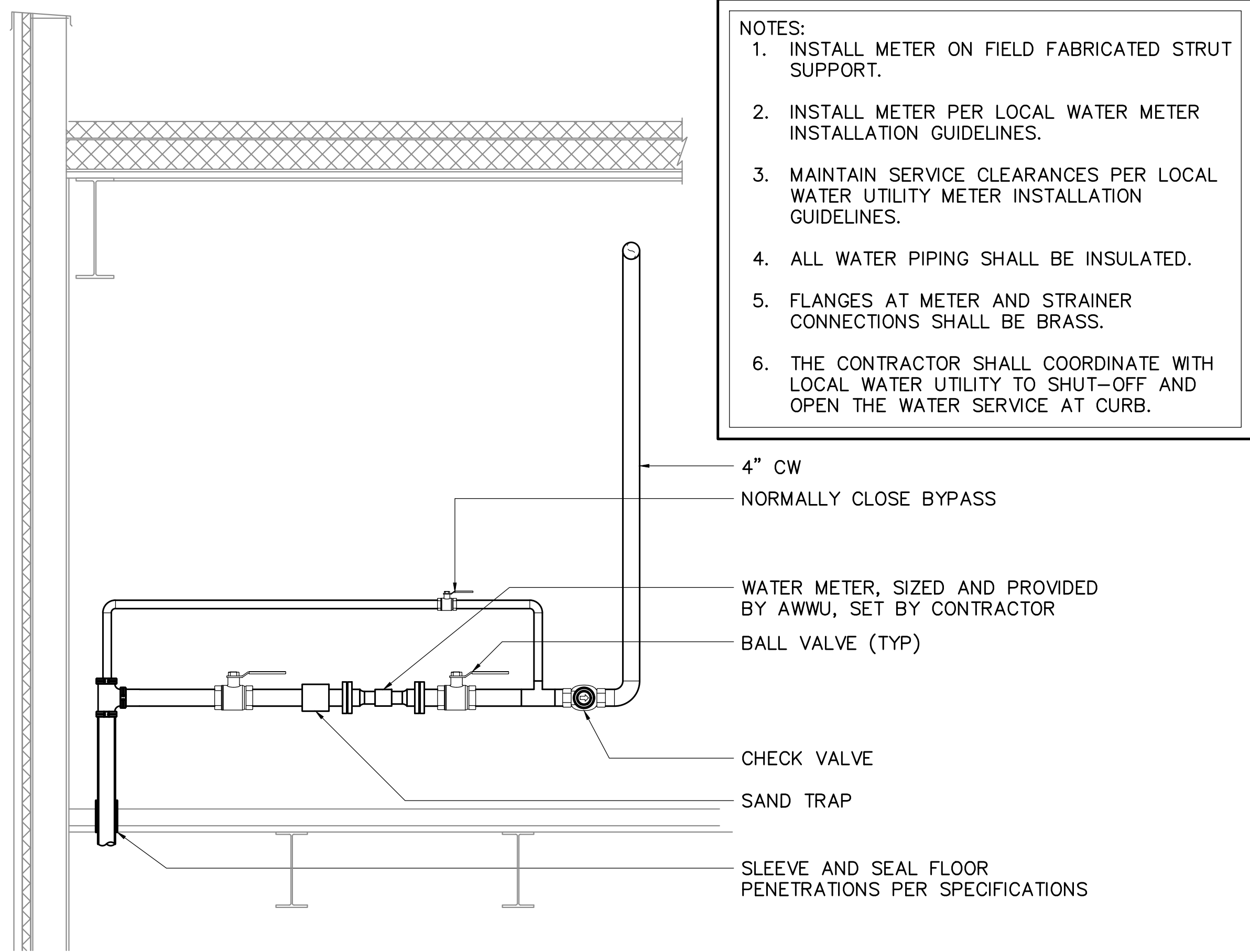
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

MECHANICAL DETAILS

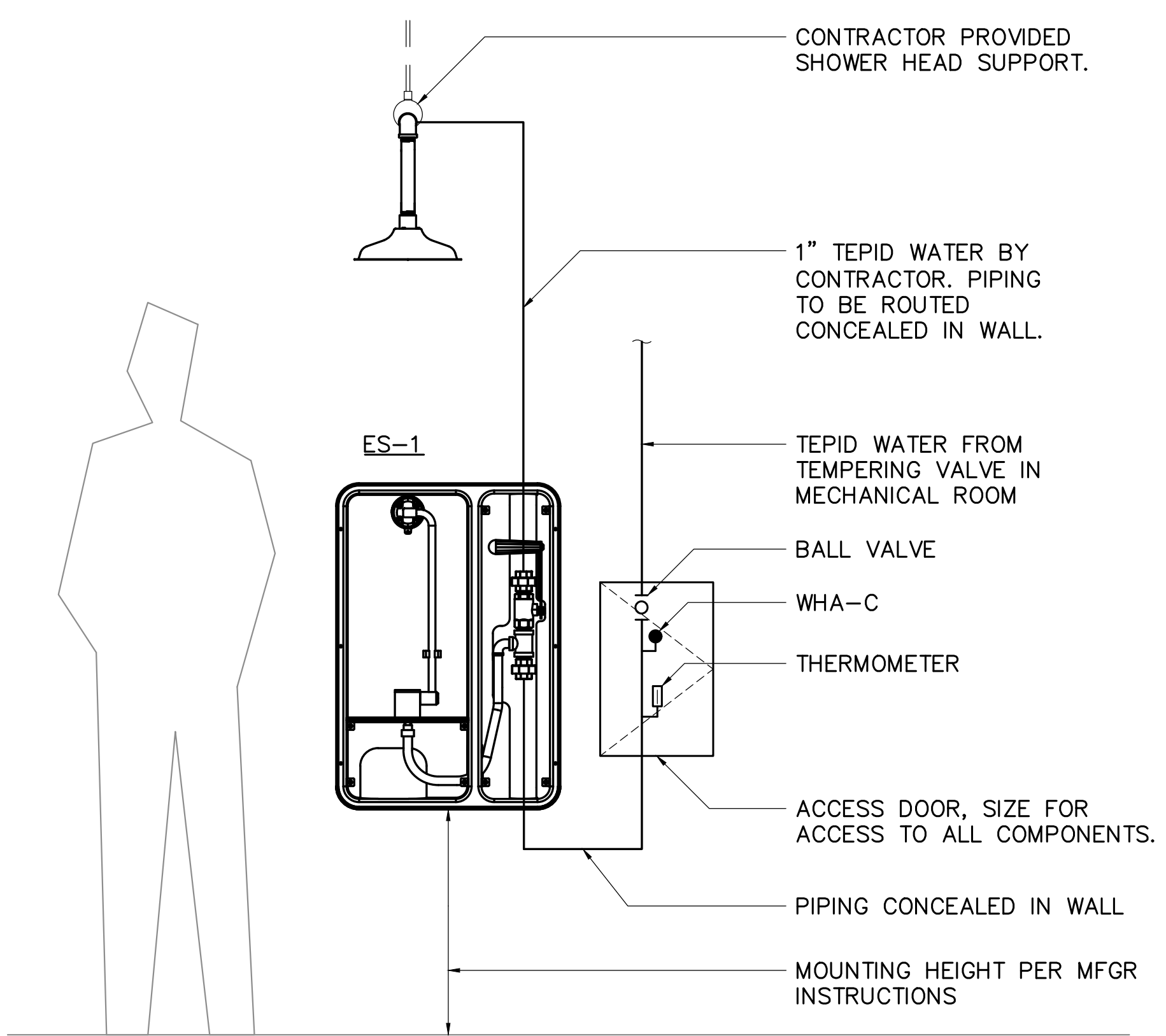
DWG
M8.5

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

SHEET 244 of 288

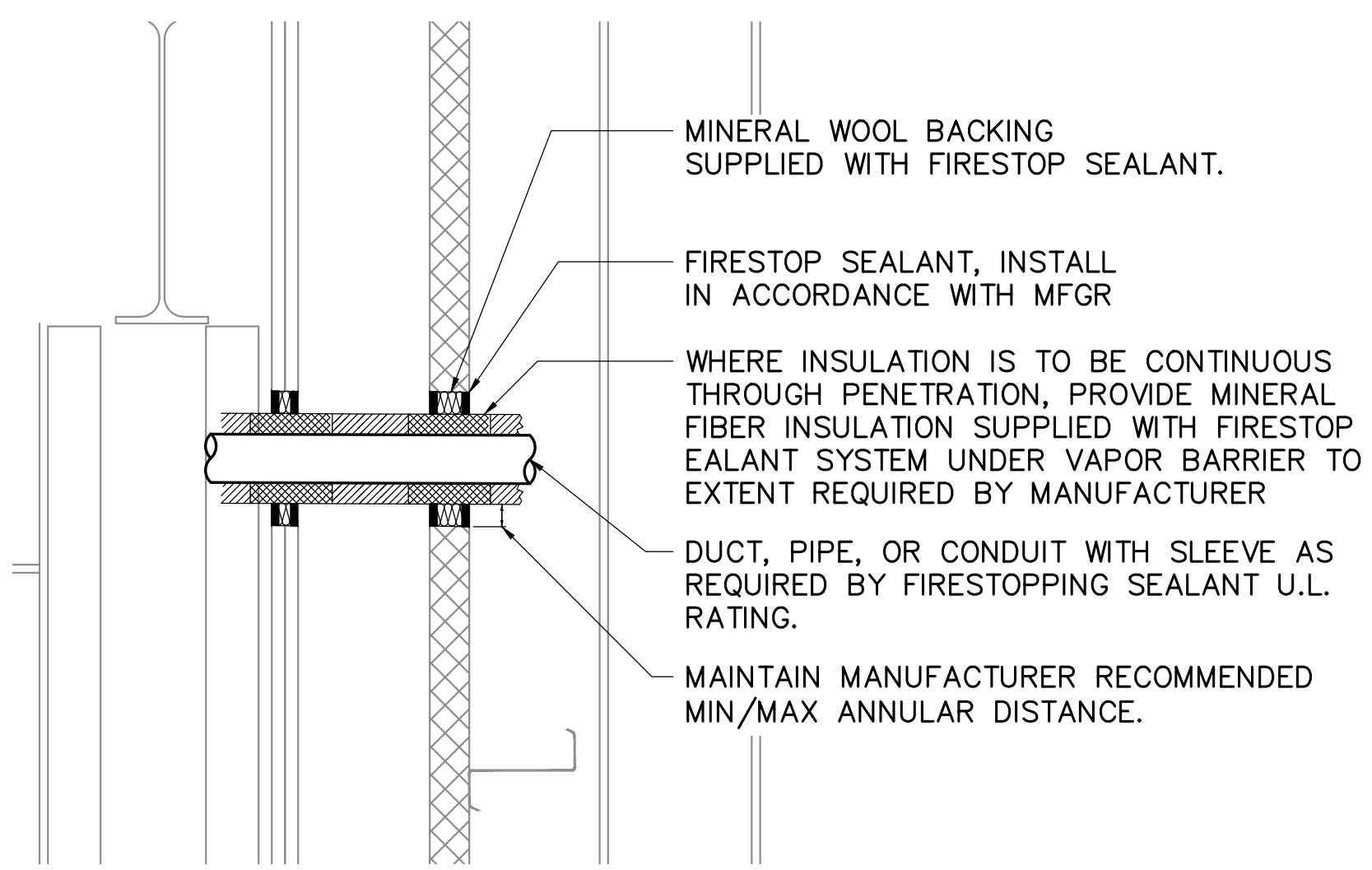


NOTES:
1. INSTALL METER ON FIELD FABRICATED STRUT SUPPORT.
2. INSTALL METER PER LOCAL WATER METER INSTALLATION GUIDELINES.
3. MAINTAIN SERVICE CLEARANCES PER LOCAL WATER UTILITY METER INSTALLATION GUIDELINES.
4. ALL WATER PIPING SHALL BE INSULATED.
5. FLANGES AT METER AND STRAINER CONNECTIONS SHALL BE BRASS.
6. THE CONTRACTOR SHALL COORDINATE WITH LOCAL WATER UTILITY TO SHUT-OFF AND OPEN THE WATER SERVICE AT CURB.

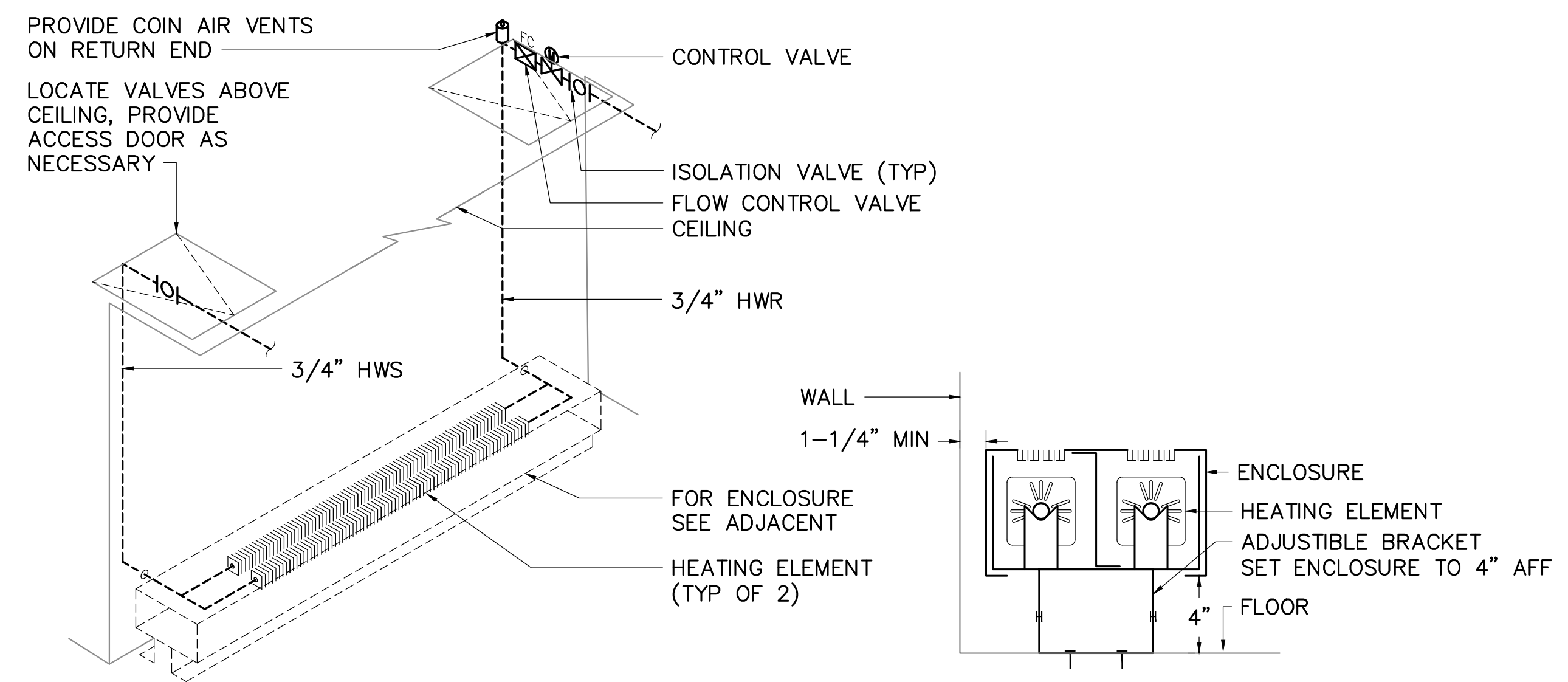


1 WATER SERVICE DETAIL
M8.6 NTS

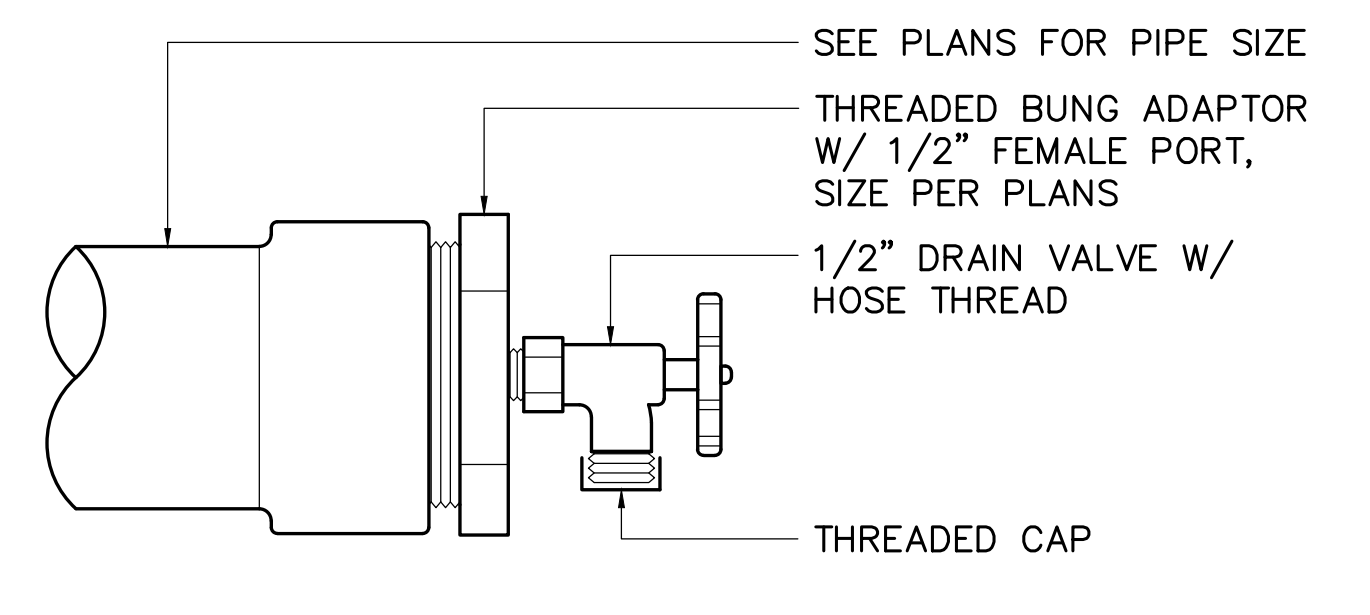
2 EMERGENCY SHOWER DETAIL
M8.6 NTS



3 WALL PENETRATION DETAIL
M8.6 NTS



4 PEDISTAL FIN TUBE DETAIL
M8.6 NTS



5 CLEANOUT HOSE DRAIN DETAIL TYP ALL
M8.6 NTS

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WATER & WASTEWATER UTILITY
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
MECHANICAL DETAILS
DWG M8.6
HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775
SHEET 245 of 288

LIGHTING FIXTURE SCHEDULE

TYPE	LOCATION	MANUFACTURER AND CATALOG NUMBER (OR APPROVED EQUAL)	LUMINAIRE DESCRIPTION	MOUNTING		LAMPS	BALLAST/DRIVER	TOTAL INPUT WATTS	TYPE	LOCATION	MANUFACTURER AND CATALOG NUMBER (OR APPROVED EQUAL)	LUMINAIRE DESCRIPTION	MOUNTING		LAMPS	BALLAST/DRIVER	TOTAL INPUT WATTS
				TYPE	HEIGHT								TYPE	HEIGHT			
A	OFFICE, MEETING ROOMS	LITHONIA #2BLT4-60LHE-ADP-EZ1-LP840	2'X4' NOMINAL LED FIXTURE WITH CURVED LENS. PROVIDE WITH 1400 LUMEN EMERGENCY BATTERY PACK EL14LSD WHERE SHOWN.	RECESSED	CEILING	4,000K LED 5,908 LM	120/277V DRIVER 0-10V DIMMING, 1%	43									
An	OPEN OFFICE	LITHONIA #2BLT4-60LHE-ADP-EZ1-LP840-N100-MSD7ADCX	SAME AS TYPE 'A' ONLY WITH INTEGRAL OCCUPANCY SENSOR AND nLIGHT ENABLED FIXTURE FOR INDIVIDUAL CONTROL.	RECESSED	CEILING	4,000K LED 5,908 LM	120/277V DRIVER 0-10V DIMMING, 1%	43	L	EXTERIOR	LITHONIA #CNY-LED-P1-40K-MVOLT-DDB	10"SQx4.7"H LED CANOPY FIXTURE WITH CAST ALUMINUM DARK BRONZE HOUSING, FROSTED LENS AND UL WET LISTED.	SURFACE	CEILING	4,000K LED 4,500 LM	120/277V DRIVER	35
B	CORRIDOR	LITHONIA #2BLT2-48LHE-ADP-EZ1-LP840-NOC	2'X2' NOMINAL LED FIXTURE WITH CURVED LENS. PROVIDE WITH 1400 LUMEN EMERGENCY BATTERY PACK #EL14LSD WHERE SHOWN.	RECESSED	CEILING	4,000K LED 4,922 LM	120/277V DRIVER 0-10V DIMMING, 1%	38	M	MEZZANINE, MECHANICAL ELECTRICAL	LITHONIA #ZL1N-L48-5000LM-FST-MVOLT-40K-80CRI	4' NOMINAL LED STRIPLIGHT WITH FROSTED DIFFUSER. PROVIDE WITH 10 WATT CONSTANT POWER EMERGENCY BATTERY PACK #E10WLCP WHERE SHOWN.	CHAIN	8'-0" AFF	4,000K LED 4,585 LM	120/277V DRIVER	34
Bn	CORRIDOR	LITHONIA #2BLT2-48LHE-ADP-EZ1-LP840-N100-MSD7ADCX-NOC-EL14LSD	SAME AS TYPE 'B' ONLY WITH INTEGRAL OCCUPANCY SENSOR AND nLIGHT ENABLED FIXTURE FOR INDIVIDUAL CONTROL.	RECESSED	CEILING	4,000K LED 4,922 LM	120/277V DRIVER 0-10V DIMMING, 1%	38	N1	EXTERIOR MAN DOORS	LITHONIA #WDGE2LED-P3-40K-80CRI-VF-MVOLT-DDBXD	9"HX11.5"W WEDGE SHAPED ARCHITECTURAL LED EXTERIOR SCONCE WITH FULL CUT OFF LENS, DIE CAST ALUMINUM HOUSING AND VISUAL CONFORT FORWARD THROW LENS.	WALL	9'-0" AFG	4,000K LED 3,132 LM	120/277V DRIVER	23
C	KITCHEN	LITHONIA #2TL4-60L-FW-A12V-EZ1-LP840-LG	2'X4' NOMINAL LED FIXTURE WITH FLUSH ALUMINUM DOOR, AND ACRYLIC A12 LENS. PROVIDE WITH 1400 LUMEN EMERGENCY BATTERY PACK EL14L WHERE SHOWN.	RECESSED	CEILING	4,000K LED 5,588 LM	120/277V DRIVER 0-10V DIMMING, 1%	47	N2	EXTERIOR GARAGE DOORS	LITHONIA #WDGE3LED-P4-40K-70CRI-R3-MVOLT-DDBXD	SIMILAR TO TYPE N1 ONLY LARGER WITH HIGHER LUMEN OUTPUT AND TYPE 3 DISTRIBUTION.	WALL	12" ABOVE OH DOOR	4,000K LED 12,167 LM	120/277V DRIVER	88
D	STAIRS, RESTROOMS, LOCKERS	LITHONIA #BLWP4-60LHE-ADP-EZ1-LP840	4' NOMINAL LINEAR SURFACE WRAP LED FIXTURE WITH CURVED ACRYLIC LENS. PROVIDE WITH 1400 LUMEN EMERGENCY BATTERY PACK WHERE SHOWN.	SURFACE	CEILING	4,000K LED 6,606 LM	120/277V DRIVER 0-10V DIMMING, 1%	47	N3	EXTERIOR WEST PARKING	LITHONIA #WDGE4LED-P6-40K-70CRI-R3-MVOLT-DDBXD	SAME AS TYPE N2 ONLY LARGER WITH HIGHER LUMEN OUTPUT.	WALL	35'-0" AFG	4,000K LED 25,233 LM	120/277V DRIVER	185
F	FIRE PUMP	LITHONIA #DMW2-L24-4000LM-AFL-WD-MVOLT-GZ19-40K-80CRI	2' NOMINAL LED ENCLOSED AND GASKETED FIXTURE. 40K-90CRK-BN	SURFACE	CEILING	4,000K LED 4,855 LM	120/277V DRIVER 0-10V DIMMING	40	O	UNDER CABINET	KELVIX #UC22-3040-010V-120/277-WH	22"L UNDER CABINET LIGHT WITH WHITE FINISH, ADJUSTABLE COLOR TEMPERATURE, AND INTEGRAL HIGH/LOW/OFF SWITCH.	SURFACE	UNDER CABINET	ADJ LED 610 LM	120/277V DRIVER	12
G1	RESTROOM, ELEVATOR PIT	LITHONIA #FMVCCLS-36IN-MVOLT-30K35K40K-90CRI-BN	36" NOMINAL CONTEMPORARY CYLINDER WITH SWITCHABLE WHITE CCT, BRUSHED NICKEL FINISH, AND 90CRI	WALL	TBD	4,000K LED 2,700 LM	120/277V DRIVER 0-10V DIMMING	27	S2	PARKING LOT	LITHONIA #DSX1-LED-P9-40K-T2M-MVOLT-RPA-DS-DDBXD	LED AREA LIGHT FIXTURE WITH TYPE II MEDIUM OPTICS, DARK BRONZE FINISH, ROUND POLE MOUNTING BRACKET, AND DUAL SWITCHING.	POLE	35'-0"	4,000K LED 27,664 LM	120/277V DRIVER	241
G2	RESTROOM	LITHONIA #FMVCCLS-48IN-MVOLT-30K35K40K-90CRI-BN	SAME AS TYPE 'G1' EXCEPT 48" NOMINAL LENGTH	WALL	TBD	4,000K LED 3,550 LM	120/277V DRIVER 0-10V DIMMING	36	S3	PARKING LOT	LITHONIA #DSX1-LED-P9-40K-T3M-MVOLT-SPA-DDBXD	SAME AS TYPE S2 EXCEPT TYPE III MEDIUM OPTICS.	POLE	35'-0"	4,000K LED 27,597 LM	120/277V DRIVER	241
H	CONFERENCE	MARK ARCHITECTURAL #S4LID-LCB-20FT-MSL8-90CRI-40K-400LMF-I90CRI-140K-1800LMF-MIN1-SCT-MVOLT-WHT-ZT-F1/36A-RDCY-WHTCY-WCRD	3.5"Wx5.25"Hx20FT DIR/IND LINEAR LED PENDANT WITH STANDARD LAMBERTIAN DISTRIBUTION, ACRYLIC LENS, WHITE EXTRUDED ALUM HOUSING, 0-10V CONTROL, T-BAR CLG BRACKET, 36" ADJUSTABLE PENDANT, ROUND WHITE CANOPY AND WHITE CORD.	PENDANT	18" BELOW CLG	4,000K LED 400LM/FT DN, 800LM/FT UP	120/277V DRIVER 0-10V DIMMING, 1%	186 TTL	S4	PARKING LOT	LITHONIA #DSX1-LED-P9-40K-TFTM-MVOLT	SAME AS TYPE 'N1' ONLY TYPE TFTM DISTRIBUTION.	POLE	35'-0"	4,000K LED 27,580 LM	120/277V DRIVER	241
									T	EXTERIOR MONUMENT	ECOSENSE #F080-1S-MO-40-8-40-Z-X	COMPACT EXTERIOR LED FLOODLIGHT, SINGLE HEAD, MEDIUM OUTPUT, FLOOD ANGLE (40'), BRONZE FINISH	STEM	18" AFG	531LM	120/277V DRIVER	7.5
I	VEHICLE STORAGE	LITHONIA #JEBL-18000LM-GL-MVOLT-40K-80CRI-SCF120-DWHXD	ROUND LED HIGH BAY FIXTURE WITH GLASS LENS WITH 10' SAFETY CABLE, STANDARD EYEBOLT MOUNTING, WHITE FINISH.	PENDANT	TBD	4,000K LED 19,783 LM	120/277V DRIVER 0-10V DIMMING	136	EX1	AS SHOWN	LITHONIA #LQM-S-W-3-R-120/277-EL N-SD	SINGLE FACE LED EXIT SIGN WITH WHITE THERMOPLASTIC HOUSING, UNIVERSAL MOUNTING AND FACES, RED LETTERS, SELF DIAGNOSTICS, AND NICKEL CADMIUM BATTERY	SURFACE	CEILING OR WALL AT 7'-6" AFF	N/A	120/277V INPUT	-
J	CONFERENCE, MEETING ROOM, HALL	GOTHAM ARCHITECTURAL #EVO6-40/20-AR-MWD-LSS-MVOLT-EZ1	6" ROUND LED RECESSED DOWNLIGHT WITH CLEAR SEMI-SPECULAR LENS, MEDIUM WIDE DISTRIBUTION. PROVIDE WITH 10W EMERGENCY BATTERY PACK #EL WHERE SHOWN.	RECESSED	CEILING	4,000K LED 2,006 LM	120/277V DRIVER 0-10V DIMMING, 1%	20	EX2	AS SHOWN	LITHONIA #LQM-S-W-3-R-120/277-EL N-SD	DOUBLE FACE LED EXIT SIGN WITH WHITE THERMOPLASTIC HOUSING, UNIVERSAL MOUNTING AND FACES, RED LETTERS, SELF DIAGNOSTICS, AND NICKEL CADMIUM BATTERY	SURFACE	CEILING OR WALL AT 7'-6" AFF	N/A	120/277V INPUT	-
K	SHOWER	GOTHAM ARCHITECTURAL #EVO6SH-40/20-DFF-SMO-MVOLT-EZ10	6" ROUND GASKETED SHOWER DOWNLIGHT LED FIXTURE WITH SMOOTH CLEAR, FLUSH LENS, WHITE PAINTED TRIM AND WET LISTED.	RECESSED	CEILING	4,000K LED 1,729 LM	120/277V DRIVER 0-10V DIMMING, 10%	20	INV	ELECTRICAL RM	MYERS LV-2-R-1	19"Wx22"Hx9.25"D 350W,277V PURE SINE WAVE LIGHTING INVERTER, UL924 LISTED, NO OUTPUT BREAKERS, RED FINISH, WALL MOUNTED, VRLA BATTERIES.	WALL	6'-0" TO TOP OF CABINET	N/A	120/277V INPUT	-

SHEET NOTES

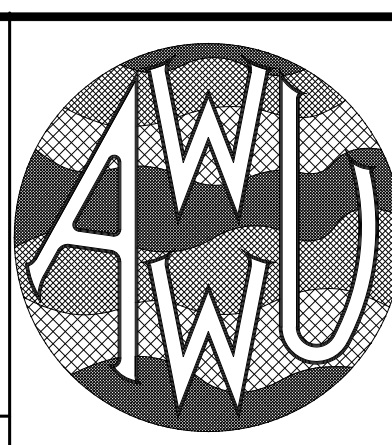
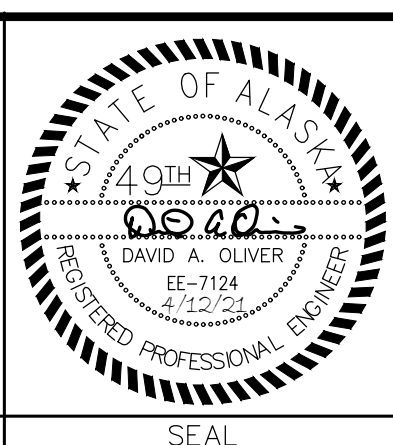
- PROVIDE ROUND, TAPERED 32FT STEEL POLE WITH DARK BRONZE FINISH. SEE PLANS NUMBER OF POLES AND FOR DRILL MOUNTING PATTERN (1@90 OR 2@180). LITHONIA #RTS-32-7-3B-DMXX-UL-DDBXD OR EQUAL.

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY

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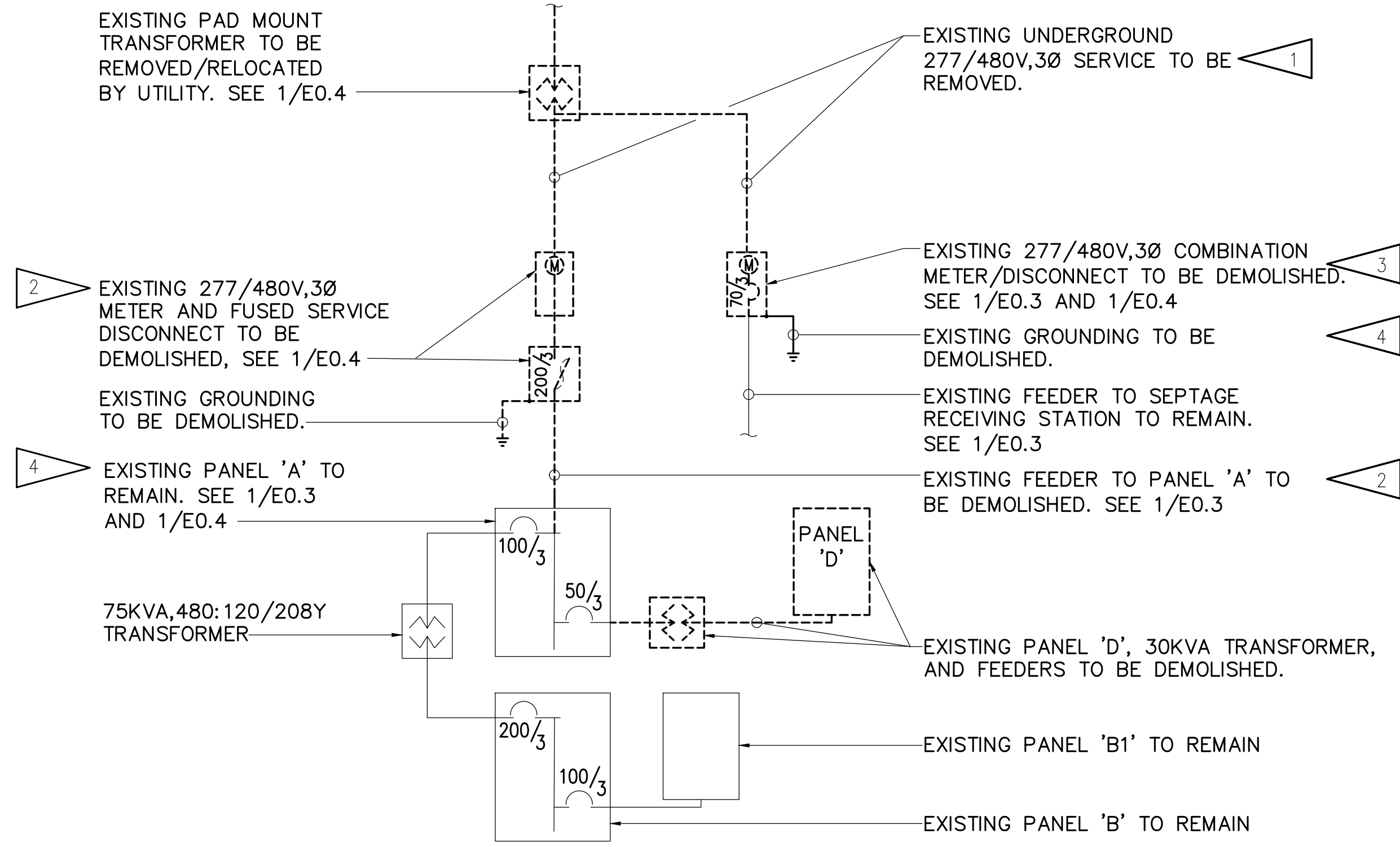


MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY	
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT	DWG
LIGHTING FIXTURE SCHEDULE	E0.2
HORIZ SCALE: N/A VERT SCALE: N/A DATE: APRIL 2021 GRID: SW 2431 PROJ. ID.: WW.H7775	SHEET 247 of 288

CONDUIT & WIRE SCHEDULE

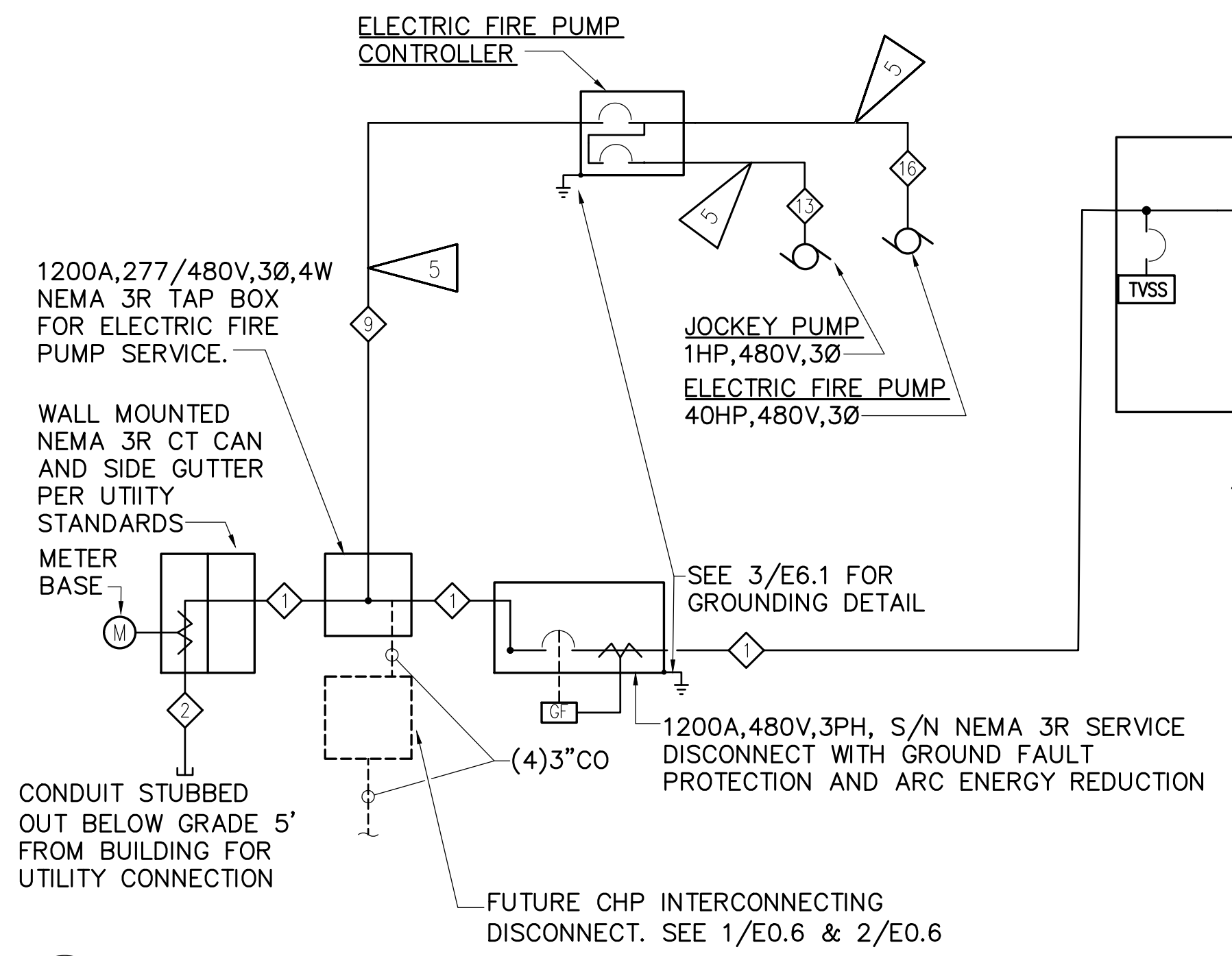
ALL CONDUCTORS TO BE COPPER WITH XHHW INSULATION, UON.

FEEDER #	TOTAL AMPACITY	# OF RUNS	CONDUIT SIZE	PHASE CONDUCTORS	NEUTRAL CONDUCTOR	GROUNDING CONDUCTOR
1	1240 A	4	3"	3#350 kcmil	1#350 kcmil	1#3/0 AWG
BY UTILITY COMPANY						
2	760 A	2	3.5"	3#500 kcmil	1#500 kcmil	1#2/0 AWG
3	200 A	1	2"	3#3/0 AWG	1#3/0 AWG	1#6 AWG
4	255 A	1	2.5"	3#250 kcmil	1#250 kcmil	1#4 AWG
5	115 A	1	1.25"	3#2 AWG	-	1#6 AWG
6	150 A	1	2"	3#1/0 AWG	1#1/0 AWG	1#6 AWG
7	70 A	1	1.25"	3#4 AWG	1#4 AWG	1#8 AWG
8	70 A	1	1.25"	3#4 AWG	1#4 AWG	1#8 AWG
9	230 A	1	2.5"	3#4/0 AWG	1#4/0 AWG	1#4 AWG
10	310 A	1	2.5"	3#350 kcmil	-	1#4 AWG
11	50 A	1	0.75"	3#8 AWG	-	1#8 AWG
12	20 A	1	0.75"	3#12 AWG	-	1#12 AWG
13	175A	1	2"	3#2/0 AWG	1#2/0 AWG	1#6 AWG
14	150 A	1	1.5"	3#1/0 AWG	-	1#6 AWG
15	230 A	1	2.5"	3#4/0 AWG	1#4/0 AWG	1#2 AWG

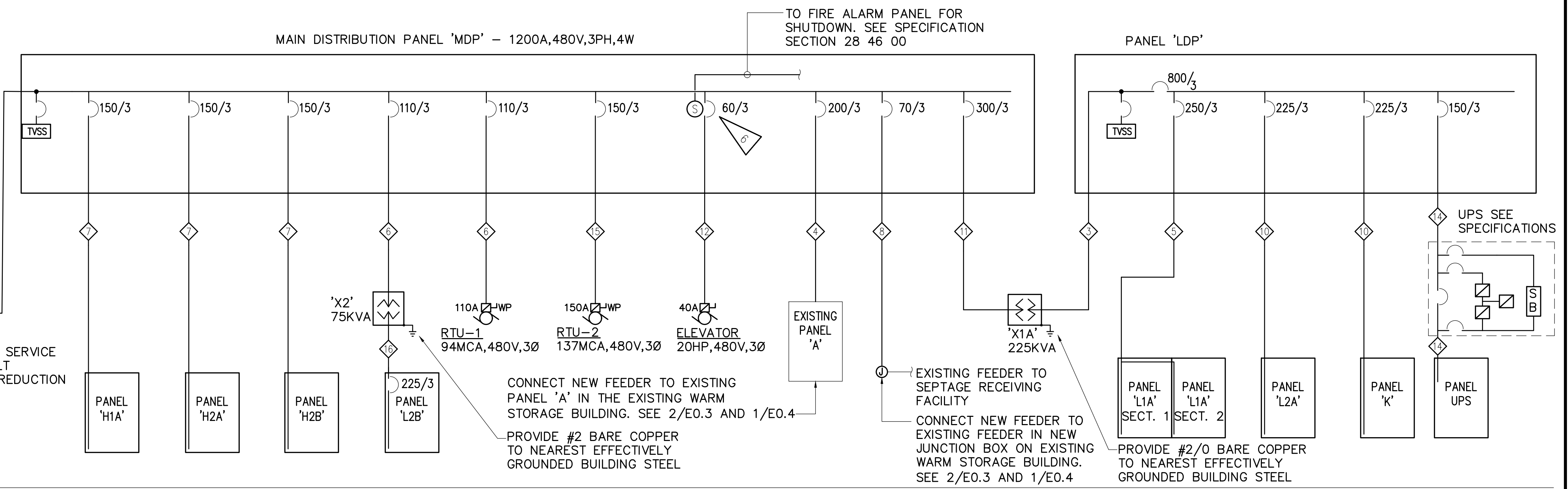


2 EXISTING WARM STORAGE BUILDING DEMOLITION ONE-LINE
E0.3 NTS

- ### SHEET NOTES
- CONTRACTOR SHALL PROVIDE TEMPORARY POWER FEEDS TO THE WARM STORAGE BUILDING AND SEPTAGE RECEIVING STATION PRIOR TO THE UTILITY DE-ENERGIZING THE EXISTING TRANSFORMER. TEMPORARY POWER SHALL BE MAINTAINED UNTIL SUCH TIME AS PERMANENT POWER TO THESE FACILITIES IS CONNECTED.
 - DEMOLISH EXISTING METER BASE, FUSED DISCONNECT, CONDUIT, AND WIRE TO EXISTING PANEL 'A'. INSTALL NEW FEEDER AND RECONNECT EXISTING PANEL 'A'. SEE NOTE 1 AND 1/E0.3.
 - DEMOLISH EXISTING COMBINATION METER/DISCONNECT, REPLACE WITH A NEW NEMA 3R JUNCTION BOX, AND SPLICE NEW FEEDER FROM THE MDP TO THE EXISTING FEEDER IN THE JUNCTION BOX. SEE NOTE 1 AND 1/E0.3.
 - REMOVE EXISTING NEUTRAL TO GROUND BOND, EXISTING GROUNDING ELECTRODE CONDUCTORS, AND EXISTING GROUNDING ELECTRODE PRIOR TO CONNECTION OF PERMANENT POWER. PROVIDE GROUNDING AND BONDING OF TEMPORARY SERVICE IN ACCORDANCE WITH THE NEC.
 - SERVICE AND FEEDER SIZE FOR FIRE AND JOCKEY PUMPS ARE BASED ON A 40HP, 480V, 3Ø FIRE PUMP MOTOR AND A 1HP, 480V, 3Ø JOCKEY PUMP MOTOR. FIELD COORDINATE WITH THE FIRE PUMP SUPPLIER FOR THE ACTUAL SIZE OF THE FIRE PUMP AND JOCKEY PUMP PRIOR TO ROUGH-IN AND ADJUST THE SERVICE AND FEEDER SIZES IN ACCORDANCE WITH THE NEC FOR THE ACTUAL SIZE OF THE EQUIPMENT BEING INSTALLED.
 - ELEVATOR BREAKER SHALL BE BACK FEED RATED TO ALLOW ELEVATOR REGENERATED POWER TO FLOW BACK INTO THE BUILDING DISTRIBUTION SYSTEM.



1 POWER ONE-LINE DIAGRAM
E0.3 NTS



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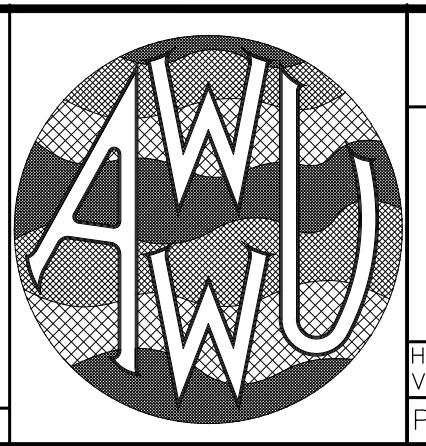
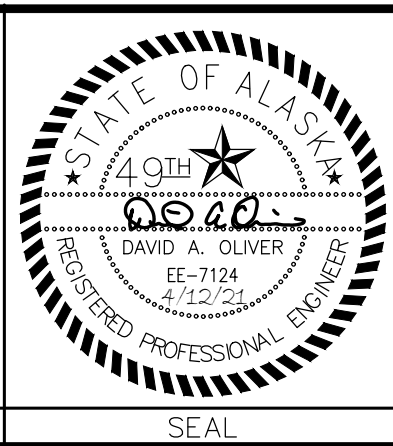
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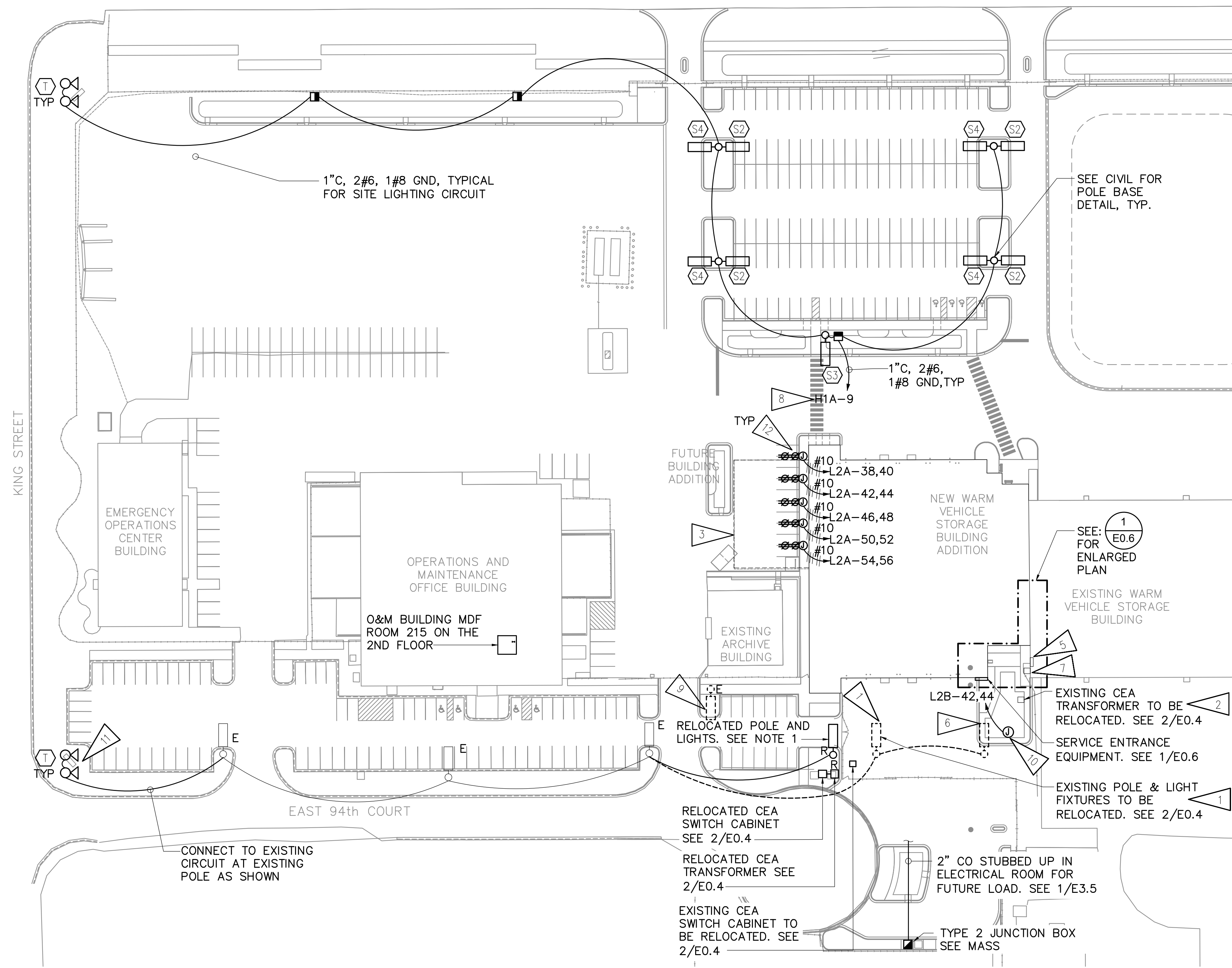
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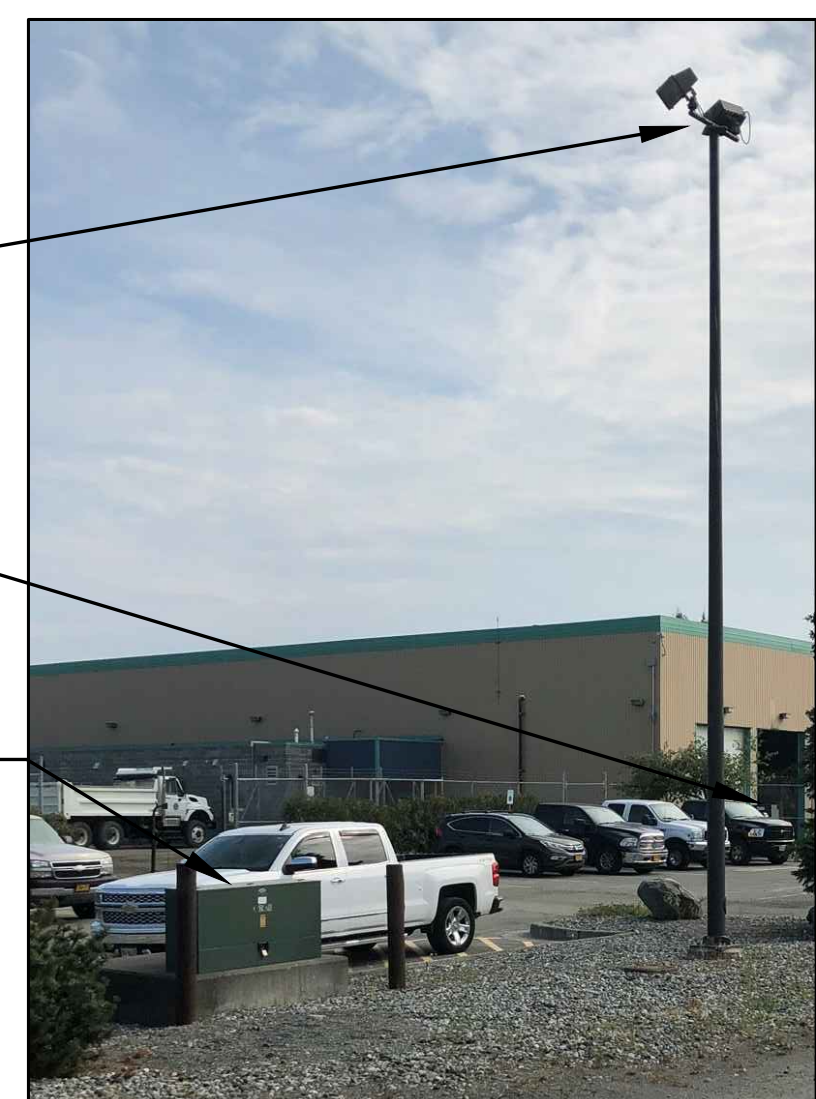
1. RELOCATE EXISTING LIGHT FIXTURE AS SHOWN. REMOVE THE EXISTING POLE BASE AND REROUTE EXISTING LIGHTING CIRCUIT TO NEW POLE LOCATION AND RECONNECT LIGHT FIXTURES. FOR NEW POLE BASE SEE CIVIL.
2. EXISTING CHUGACH ELECTRIC ASSOCIATION (CEA) TRANSFORMER AND SWITCH CABINET WILL BE RELOCATED BY CEA. COORDINATE SITE WORK SCHEDULE WITH CEA PRIOR TO START OF WORK.
3. FUTURE BUILDING ADDITION. WITH THE EXCEPTION OF THE NEW HEADBOLT HEATER OUTLETS, ROUTE ALL UNDERGROUND ELECTRIC CIRCUITS AROUND FUTURE WARM STORAGE BUILDING ADDITION. NO NEW UNDERGROUND POWER OR TELECOMMUNICATIONS SHALL BE ROUTED UNDER THE NEW ADDITION FOOTPRINT.
4. COORDINATE WITH AWWU PRIOR TO START OF WORK AND PROVIDE A TEMPORARY 6 FIBER OM1 MULTIMODE FIBER CONNECTION BETWEEN THE ARCHIVE BUILDING AND THE EXISTING WARM VEHICLE STORAGE BUILDING. THE TEMPORARY FIBER SHALL BE ROUTED AROUND THE CONSTRUCTION WORK AREA, OUT OF LANES OF TRAVEL AND SHALL BE PROTECTED FROM DAMAGE.
5. EXISTING WARM VEHICLE STORAGE TELECOMMUNICATIONS RACK.
6. DEMOLISH EXISTING LIGHT POLE, FOUNDATION, CONDUIT, AND WIRE BACK TO EXISTING POLE TO REMAIN.
7. EXISTING WARM VEHICLE STORAGE BUILDING ELECTRIC METERS TO BE DEMOLISHED. SEE 2/E0.3.
8. ROUTE EXTERIOR LIGHTING CIRCUIT VIA NETWORKED LIGHTING CONTROLLER. SEE 1/E2.3 AND 1/E6.7.
9. EXISTING POLE BASE FOUNDATION AND ELECTRICAL CIRCUITING TO BE REMOVED AND REINSTALLED AS REQUIRED FOR EXCAVATION FOR INSTALLATION OF NEW STORM DRAIN. SEE CIVIL.
10. WATERTIGHT JUNCTION BOX IN NEW STORM DRAIN MANHOLE FOR CONNECTION OF HEAT TRACE ON STORM DRAIN LINE. ROUTE CIRCUIT THROUGH HEAT TRACE CONTACTOR IN ELECTRICAL ROOM. SEE 3/E6.7. INSTALL HEAT TRACE, WIRING, ETC IN ACCORDANCE WITH MASS 55.23. SEE CIVIL.
11. PROVIDE STEM MOUNTED TYPE 'T' FLOODLIGHTS MOUNTED 5'-0" FROM THE BASE OF THE MONUMENT SIGN. AIM TO EVENLY ILLUMINATE THE SIGN. CONNECT TO LOCAL SITE LIGHTING CIRCUIT WITH 1"C, 2#6, 1#10
12. PROVIDE (2) DUPLEX GFCI WEATHER-RESISTANT RECEPTACLES MOUNTED IN INDIVIDUAL CONNECTION BOXES WITH GASKETED COVERS. MOUNT ON POST AT THE EDGE OF SIDEWALK. SEE 4/E6.2.



EXISTING LIGHT POLE AND LIGHTS TO BE RELOCATED. SEE NOTE 1.

EXISTING TRANSFORMER TO BE RELOCATED BY CEA. SEE NOTE 2.

EXISTING MEDIUM VOLTAGE SWITCH CABINET TO BE RELOCATED BY CEA. SEE NOTE 2.



SITE LIGHTING ANALYSIS		
DRIVEWAY-SITE		
MIN. AVG HORIZONTAL ILLUMINANCE: FOOTCANDLES	REQUIRED: .6 fc	DESIGNED: 1.8 fc
UNIFORMITY RATIO, Avg/Min:	REQUIRED: 6:1	DESIGNED: 4.6:1
PARKING-NORTH		
MINIMUM HORIZONTAL ILLUMINANCE: FOOTCANDLES	REQUIRED: .5 fc	DESIGNED: .5 fc
UNIFORMITY RATIO, Max/Min:	REQUIRED: 15:1	DESIGNED: 9.4:1
PARKING-WEST		
MINIMUM HORIZONTAL ILLUMINANCE: FOOTCANDLES	REQUIRED: .5 fc	DESIGNED: 1.1 fc
UNIFORMITY RATIO, Max/Min:	REQUIRED: 15:1	DESIGNED: 3.3:1

THE PARKING AREA LIGHTING MEETS THE LEVEL OF ILLUMINATION, UNIFORMITY RATIOS AND MINIMUM LUMEN INTENSITIES SPECIFIED IN THE ILLUMINATION GUIDELINES SET BY THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA, AND THE MUNICIPALITY OF ANCHORAGE TITLE 21, SECTION 21.07.100. IN ADDITION, THE LIGHTING IS DESIGNED TO PREVENT GLARE TO MOTORISTS ON PUBLIC STREETS AND TO RESIDENTS OF ADJOINING PROPERTIES IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.

1 ELECTRICAL REMODEL SITE PLAN
E0.4 1" = 50'-0"

2 EXISTING LIGHT POLE
E0.4 NTS

REV	DATE	DESCRIPTION	BY

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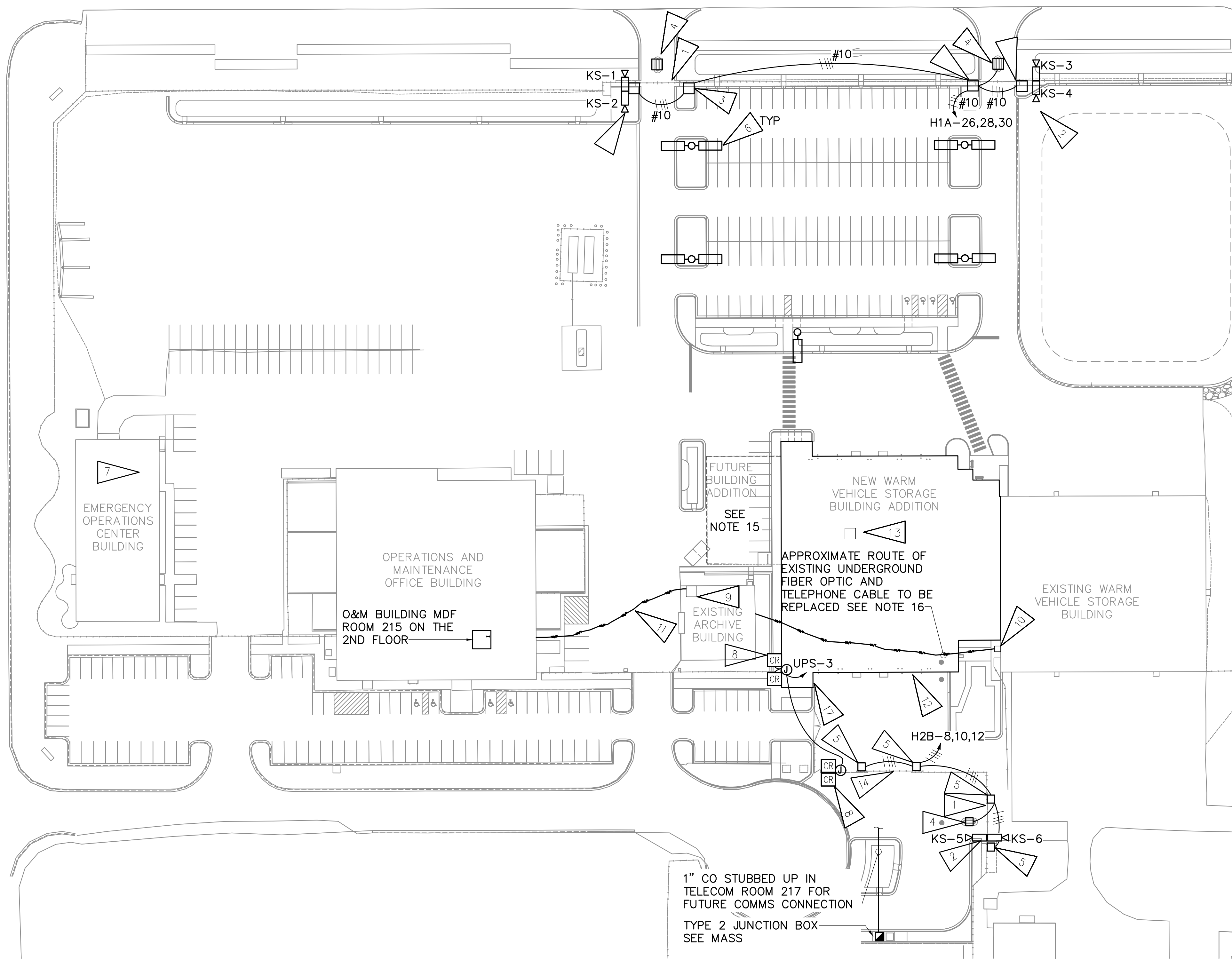
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

ELECTRICAL LIGHTING AND POWER SITE PLAN

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG E0.4

SHEET 249 of 288



SHEET NOTES

1. GATE SHALL HAVE ACCESS CONTROL VIA CARD READER AND VEHICLE TAGS FOR INCOMING TRAFFIC. PROVIDE CONNECTION TO GATE OPERATOR. SEE SHEET E6.2 FOR DETAILS.
2. NEW IP VIDEO CAMERA FOR MONITORING GATE TRAFFIC. MOUNT ON TOP OF FENCE POST WITH POLE ADAPTER TO MAINTAIN CLEAR LINE OF SIGHT OF VEHICLE APPROACH. PROVIDE CABLING TO NETWORK SWITCH IN ENCLOSURE AT GATE OPERATOR. NOTE THAT PREFERRED CAMERA NUMBERS SHALL BE CONFIRMED WITH AWWU PRIOR TO SHOP DRAWINGS, THESE SHOWN ARE FOR SCHEDULES AND BIDDING.
3. NEW GATE OPERATOR. PROVIDE NEW FIBER OPTIC BACKBONE CABLE TO OPERATIONS AND MAINTENANCE BUILDING. PROVIDE CONNECTION FROM OPERATOR ENCLOSURE TO VIDEO, ACCESS CONTROL, VIDEO INTERCOM, AND GATE CONTROL COMPONENTS. SEE SHEET E6.2 FOR DETAILS.
4. PROVIDE VIDEO INTERCOM AND CARD READER STATION IN ISLAND FOR INCOMING TRAFFIC. SEE CIVIL FOR ISLAND LOCATION. CONNECT TO GATE OPERATOR ENCLOSURE. SEE SHEET E6.2 FOR DETAILS.
5. NEW GATE OPERATOR. PROVIDE NEW FIBER OPTIC BACKBONE CABLE TO WARM STORAGE BUILDING. PROVIDE CONNECTION FROM OPERATOR ENCLOSURE TO VIDEO, ACCESS CONTROL, AND GATE CONTROL COMPONENTS. SEE SHEET E6.2 FOR DETAILS.
6. PROVIDE 1" C WITH PULL-STRING FOR FUTURE SIGNAL CABLING TO EACH LIGHT POLE. STUB UP IN IT/COMM ROOM 217 OF THE NEW WARM VEHICLE STORAGE BUILDING. SEE 1/E4.4.
7. EXISTING VIDEO SYSTEM ARCHIVER/SERVER LOCATED HERE. NO ADDITIONAL STORAGE IS REQUIRED FOR NEW CAMERAS.
8. PEDESTRIAN GATE IN FENCE, SEE CIVIL. CONNECT CARD READER AND TO ALLOW ENTRY AND EXIT THROUGH THE GATE.
9. EXISTING ARCHIVE BUILDING TELECOMMUNICATIONS RACK.
10. DEMOLISH EXISTING FIBER OPTIC BACKBONE FROM ARCHIVE BUILDING AND REPLACE WITH (2) 12-STRAND OS2 FROM EXISTING OPERATIONS AND MAINTENANCE BUILDING. TELECOMMUNICATIONS RACK, (1) EACH TO NEW AND EXISTING WARM STORAGE BUILDINGS.
11. REPLACE EXISTING OM1 FIBER TO OPERATIONS AND MAINTENANCE BUILDING WITH (2) 12-STRAND OS2 BACKBONE. PROVIDE NEW CASSETTES IN FIBER HOUSINGS AT BOTH ENDS. TERMINATE AND TEST ALL STRANDS. PROVIDE 25-PAIR TELEPHONE BACKBONE CABLING.
12. SEE 1/E6.3 AND 2/E6.3.
13. NEW FIBER OPTIC BACKBONE FROM OPERATIONS AND MAINTENANCE BUILDING WILL TERMINATE IN IT/COMM 217. PROVIDE (2) 12-STRAND OS2, WITH 2ND CABLE INTENDED TO PASS THROUGH THE EXISTING WARM STORAGE BUILDING.
14. NO CARD READER FOR GATE INDICATED, GATE CONTROLLED BY EXIT LOOPS.
15. FUTURE BUILDING ADDITION. WITH THE EXCEPTION OF THE NEW HEADBOLT HEATER OUTLETS, ROUTE ALL UNDERGROUND ELECTRIC CIRCUITS AROUND FUTURE WARM STORAGE BUILDING ADDITION. NO NEW UNDERGROUND POWER OR TELECOMMUNICATIONS SHALL BE ROUTED UNDER THE NEW ADDITION FOOTPRINT.
16. COORDINATE WITH AWWU PRIOR TO START OF WORK AND PROVIDE A TEMPORARY 6 FIBER OM1 MULTIMODE FIBER CONNECTION BETWEEN THE ARCHIVE BUILDING AND THE EXISTING WARM VEHICLE STORAGE BUILDING. THE TEMPORARY FIBER SHALL BE ROUTED AROUND THE CONSTRUCTION WORK AREA, OUT OF LANES OF TRAVEL AND SHALL BE PROTECTED FROM DAMAGE.
17. JUNCTION BOXES FOR CONNECTION OF MAGNETIC LOCK ON PEDESTRIAN GATES. SEE CIVIL.

1 ACCESS CONTROL SITE PLAN
E0.5 1" = 50'-0"

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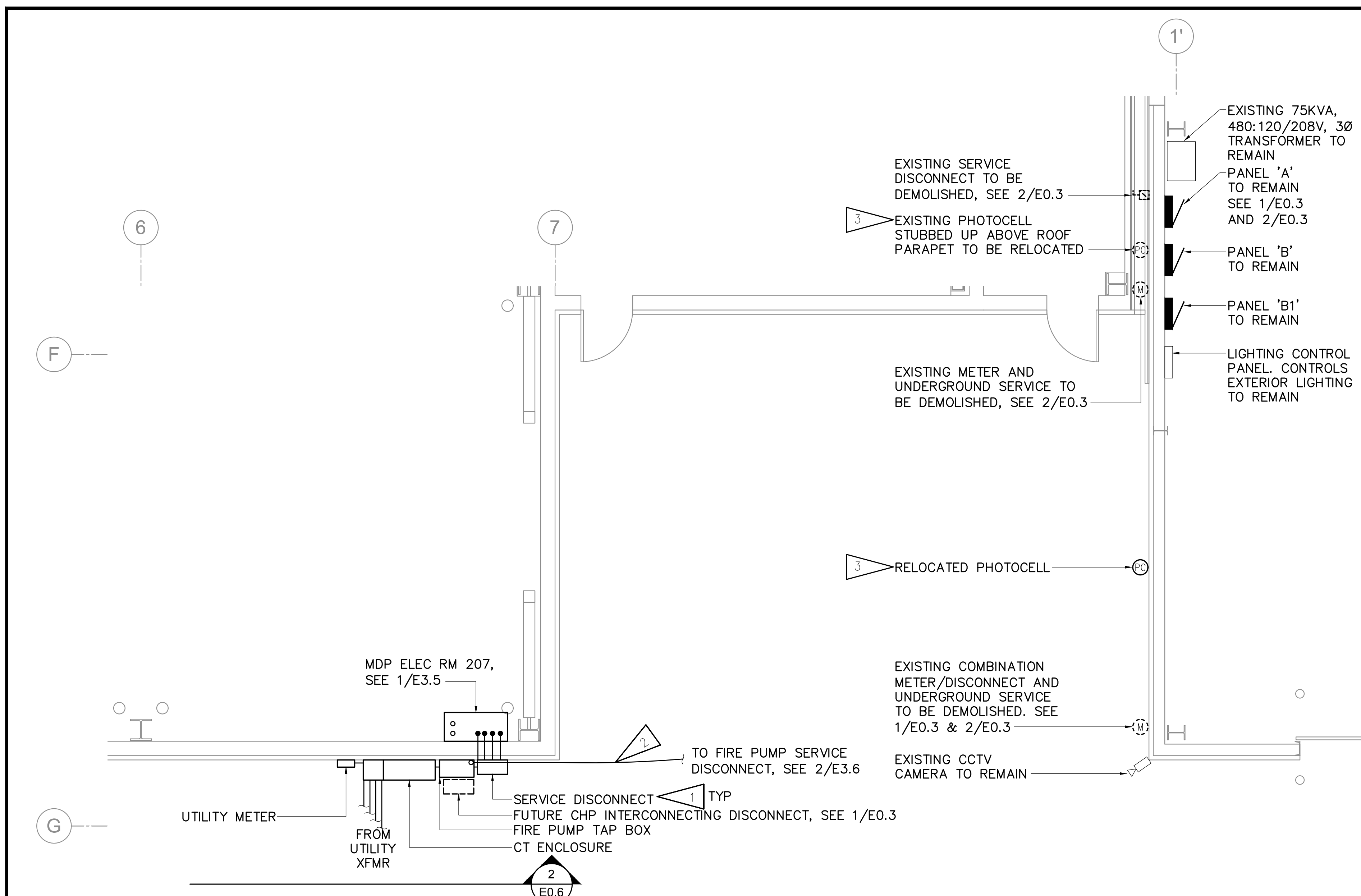
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 E.E.-7124
 4/12/21
 REGISTERED PROFESSIONAL ENGINEER
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MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY
 KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
ACCESS CONTROL AND TELECOM SITE PLAN
 DWG E0.5
 HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775
 SHEET 250 of 288



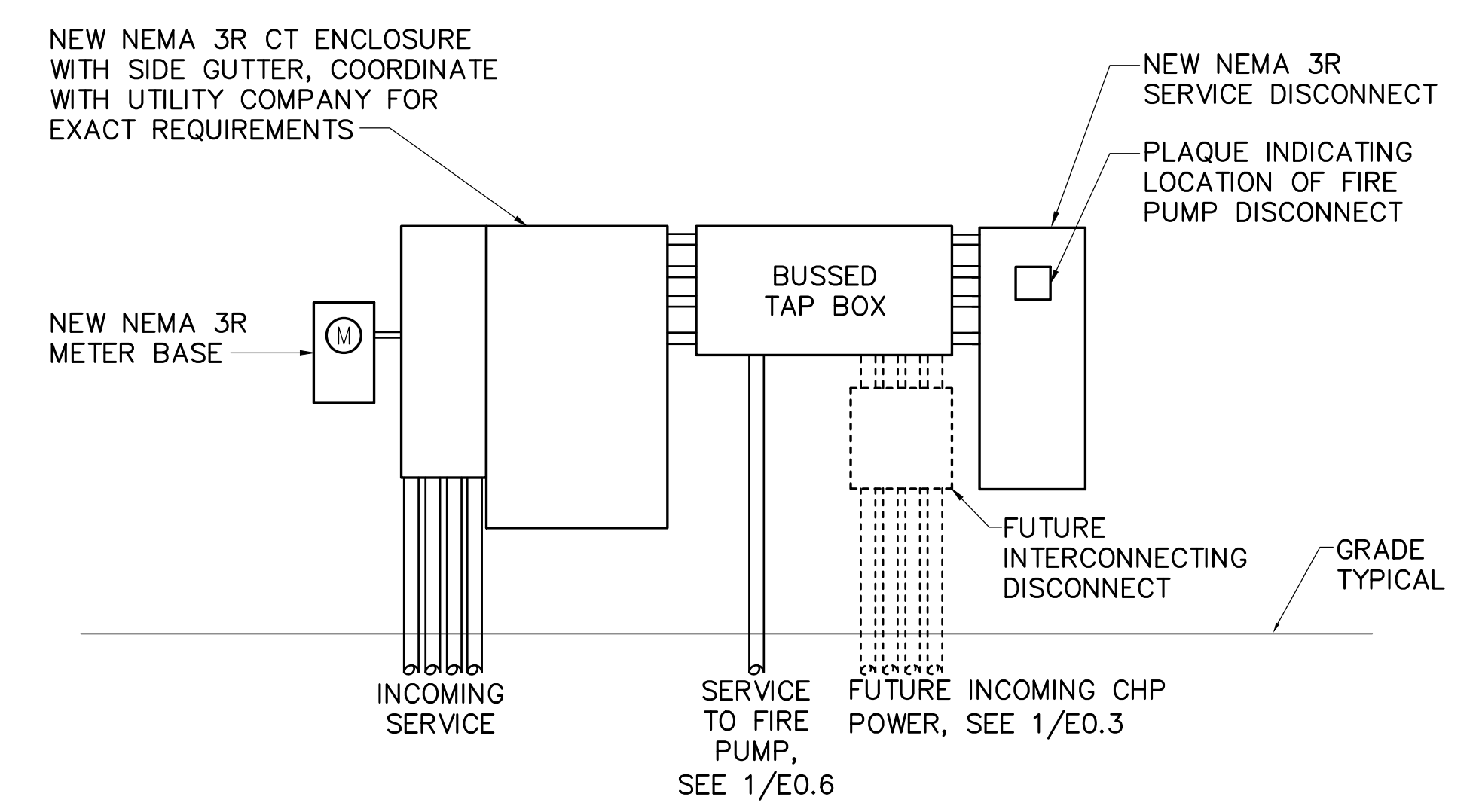
GENERAL NOTES

A. COORDINATE WITH CEA FOR ELECTRICAL SERVICE.

SHEET NOTES

- SEE 1/E0.3 POWER ONE-LINE DIAGRAM FOR EQUIPMENT SIZE/RATINGS.
- ROUTE SERVICE TO FIRE PUMP AROUND DRAINAGE SWALE AND UNDER WATERPROOF MEMBRANE. DO NOT PENETRATE MEMBRANE. SEE CIVIL.
- MAST MOUNTED PHOTOCELL EXTENDING ABOVE THE ROOF CONTROLS THE EXISTING BUILDING MOUNTED EXTERIOR LIGHTS VIA THE LIGHTING CONTROL PANEL. RELOCATE PHOTOCELL AS SHOWN AND RECONNECT TO THE LIGHTING CONTROL PANEL.

1 ENLARGED ELECTRICAL SERVICE AND WARM STORAGE SERVICE PLAN
E0.6 1/4" = 1'-0"



2 SERVICE ENTRANCE EQUIPMENT ELEVATION
E0.6 NOT TO SCALE

REV	DATE	DESCRIPTION	BY

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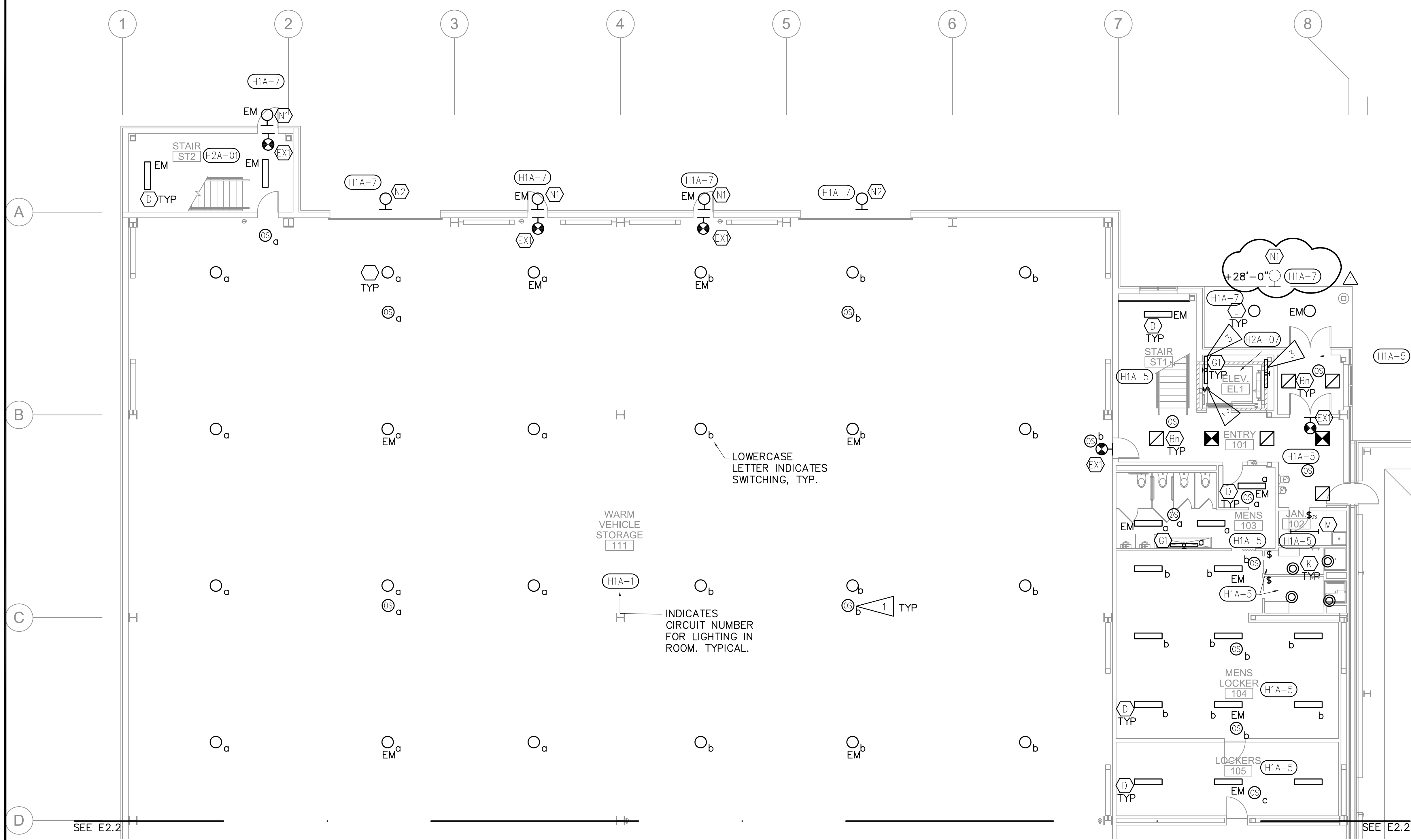
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WATER & WASTEWATER UTILITY
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
ELECTRICAL SERVICE ENTRANCE PLAN AND ELEVATION
DWG E0.6
HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
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PROJ. ID.: WW.H7775
SHEET 251 of 288

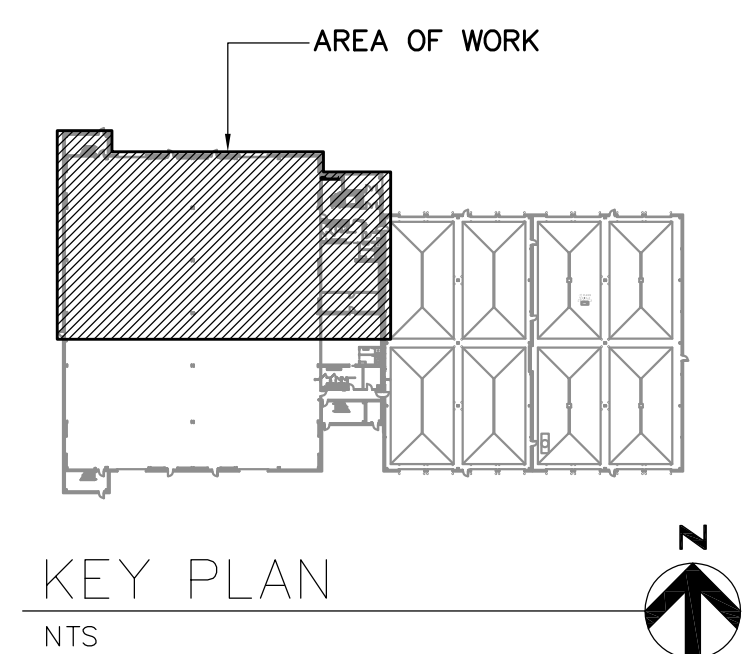


GENERAL NOTES

- A. CONNECT LIGHTS IN EACH ROOM TO CIRCUIT NUMBER INDICATED. PROVIDE ALL WIRING FOR A COMPLETE AND OPERABLE SYSTEM.
- B. CONNECT ALL EXIT SIGNS TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT.
- C. ROUTE ALL EXTERIOR LIGHTING VIA LOW VOLTAGE LIGHTING CONTROL MODULE FOR CONTROL. SEE 1/E6.7.
- D. ROUTE EMERGENCY EXTERIOR LIGHTS VIA EMERGENCY LIGHTING INVERTER 'INV-1'. SEE 2/E6.7.
- E. SEE 1/E6.7 FOR NETWORKED LIGHTING CONTROL DIAGRAM.

SHEET NOTES

- 1. CONNECT OCCUPANCY SENSORS SUCH THAT IF ANY SENSOR IN THE ZONE INDICATED SENSES MOTION, ALL OF THE LIGHTS IN THAT ZONE ARE AUTOMATICALLY TURNED ON. WHEN NONE OF THE SENSORS IN THAT ZONE DETECT MOTION ANYMORE, ALL OF THE LIGHTS IN THAT ZONE ARE TURNED OFF.
- 2. MOUNT LIGHT SWITCH FOR ELEVATOR PIT +36" ABOVE THE BOTTOM OF THE PIT. FIELD COORDINATE EXACT LOCATION OF SWITCH AND LIGHTS WITH ELEVATOR SHOP DRAWINGS PRIOR TO INSTALLATION.
- 3. CONNECT ELEVATOR PIT LIGHTS TO LIGHTS IN FRONT OF ELEVATOR DOOR, SEE 1/E2.4



1 FIRST FLOOR LIGHTING PLAN - NORTH AREA
E2.1 1/8" = 1'-0"

REV	DATE	DESCRIPTION	BY
1	6/8/2021	MOA PLAN REVIEW	CZ, DO
REVISIONS			

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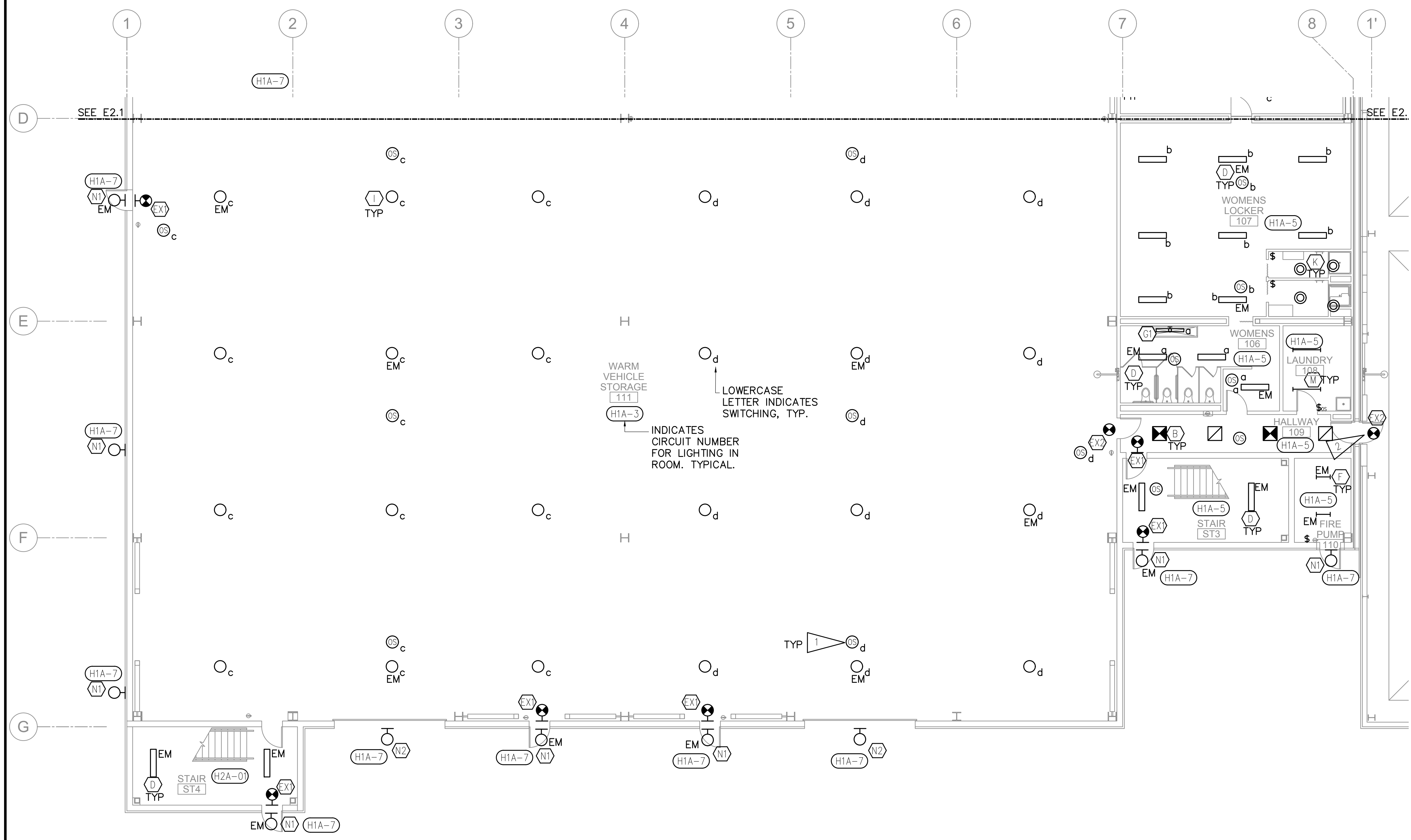
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

FIRST FLOOR LIGHTING PLAN - NORTH AREA

HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG E2.1
SHEET 253 of 288

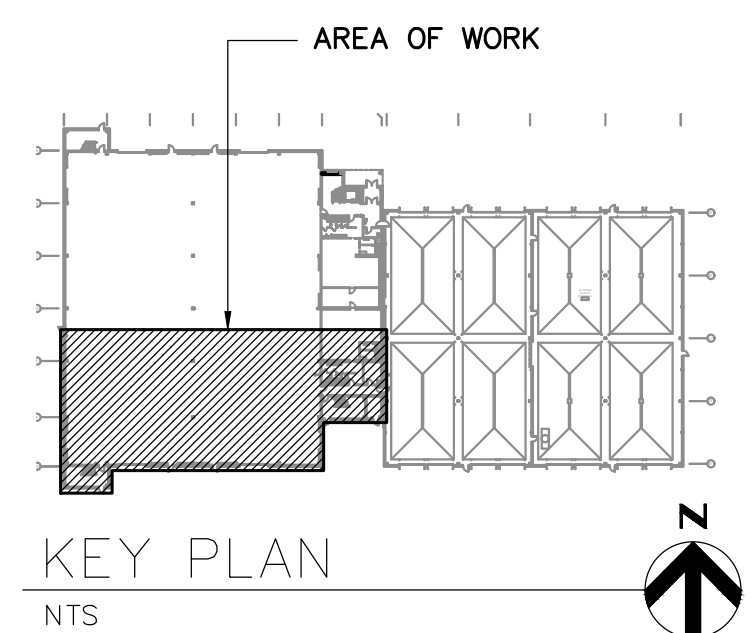


GENERAL NOTES

A. SEE E2.1 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

SHEET NOTES

1. CONNECT OCCUPANCY SENSORS SUCH THAT IF ANY SENSOR IN THE ZONE INDICATED SENSES MOTION, ALL OF THE LIGHTS IN THAT ZONE ARE AUTOMATICALLY TURNED ON. WHEN NONE OF THE SENSORS IN THAT ZONE DETECT MOTION ANYMORE, ALL OF THE LIGHTS IN THAT ZONE ARE TURNED OFF..
2. CONNECT EXIT SIGN TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT IN EXISTING BUILDING..



1 FIRST FLOOR LIGHTING PLAN - SOUTH AREA
E2.2 1/8" = 1'-0"

REV	DATE	DESCRIPTION	BY

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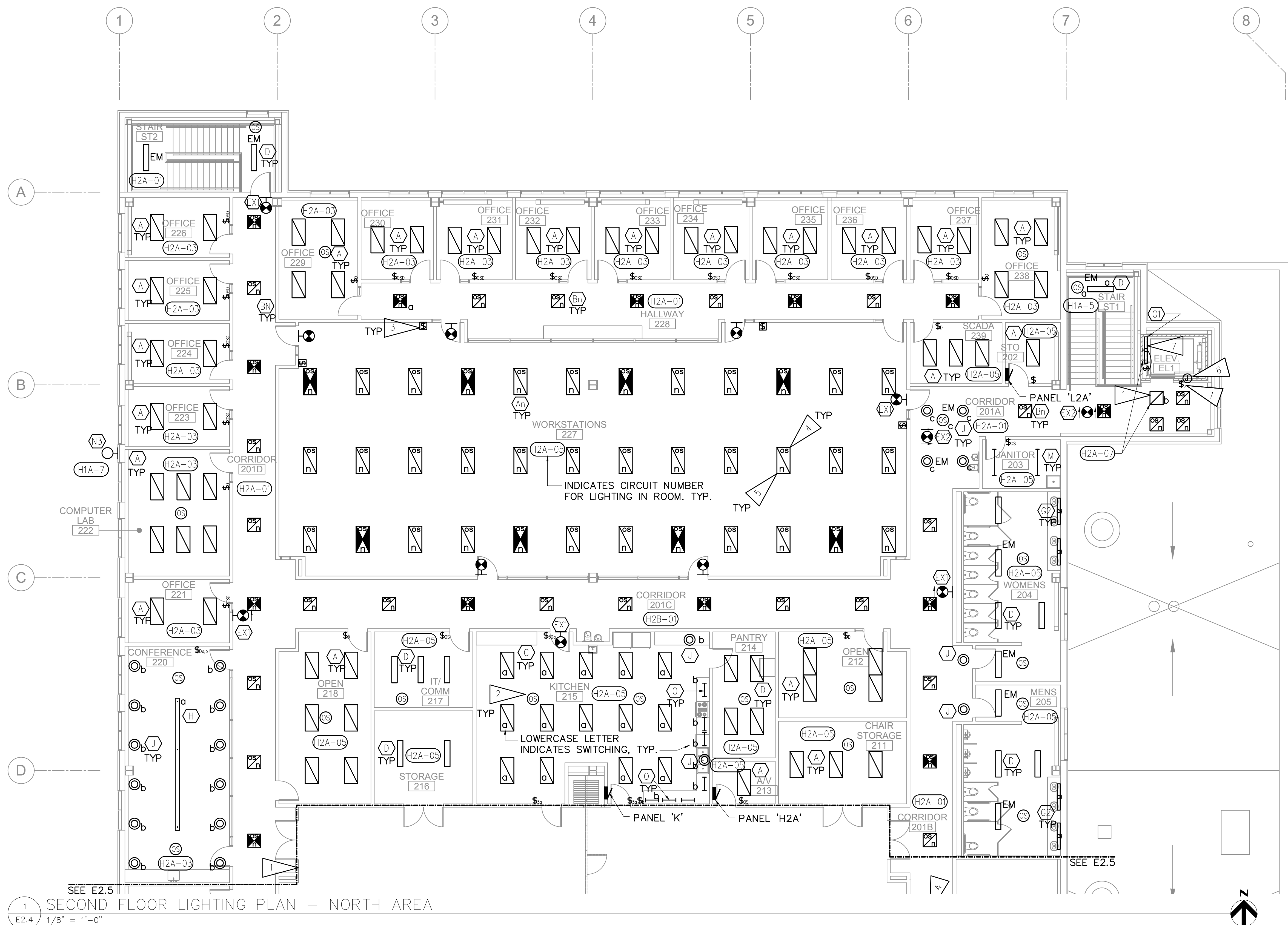
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FIRST FLOOR LIGHTING PLAN - SOUTH AREA
DWG E2.2
HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
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PROJ. ID.: WW.H7775
SHEET 254 of 288

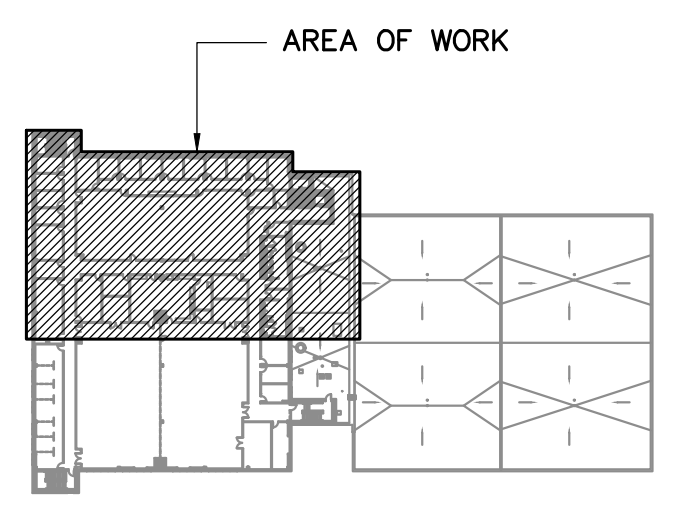


GENERAL NOTES

A. SEE E2.1 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

SHEET NOTES

1. CONNECT LIGHT SWITCH TO CONTROL LIGHT IN FRONT OF ELEVATOR DOOR PER 2017 NEC 620.23(B). LIGHT SHALL BE ON A DEDICATED CIRCUIT PER 2017 NEC 620.23(A).
2. CONNECT OCCUPANCY SENSORS SUCH THAT IF ANY SENSOR IN THE ZONE INDICATED SENSES MOTION, ALL OF THE LIGHTS IN THAT ZONE ARE AUTOMATICALLY TURNED ON. WHEN NONE OF THE SENSORS IN THAT ZONE DETECT MOTION ANYMORE, ALL OF THE LIGHTS IN THAT ZONE ARE TURNED OFF.
3. PROVIDE TOUCHSCREEN STATION FOR CONTROL OF LIGHTING IN THIS ROOM. COORDINATE ZONE CONTROL WITH OWNER.
4. FIXTURE WITH "os" TAG INDICATES IT IS PROVIDED WITH ON-BOARD OCCUPANCY SENSOR.
5. FIXTURE WITH "n" TAG INDICATES IT IS nLIGHT ENABLED (INDIVIDUALLY CONTROLLABLE LUMINAIRE). SEE 1/E6.7.
6. JUNCTION BOX FOR CONNECTION OF ELEVATOR CAR LIGHTS, CAR TOP RECEPTACLE, AND CAR VENTILATION. CONNECT TO CIRCUIT L2A-49.
7. INSTALL LIGHT AT THE TOP OF THE ELEVATOR HOISTWAY. COORDINATE EXACT LOCATION OF LIGHT AND SWITCH WITH ELEVATOR SHOP DRAWINGS PRIOR TO ROUGH-IN.



KEY PLAN
NTS

1 SECOND FLOOR LIGHTING PLAN - NORTH AREA
E2.4 1/8" = 1'-0"

REV	DATE	DESCRIPTION	BY

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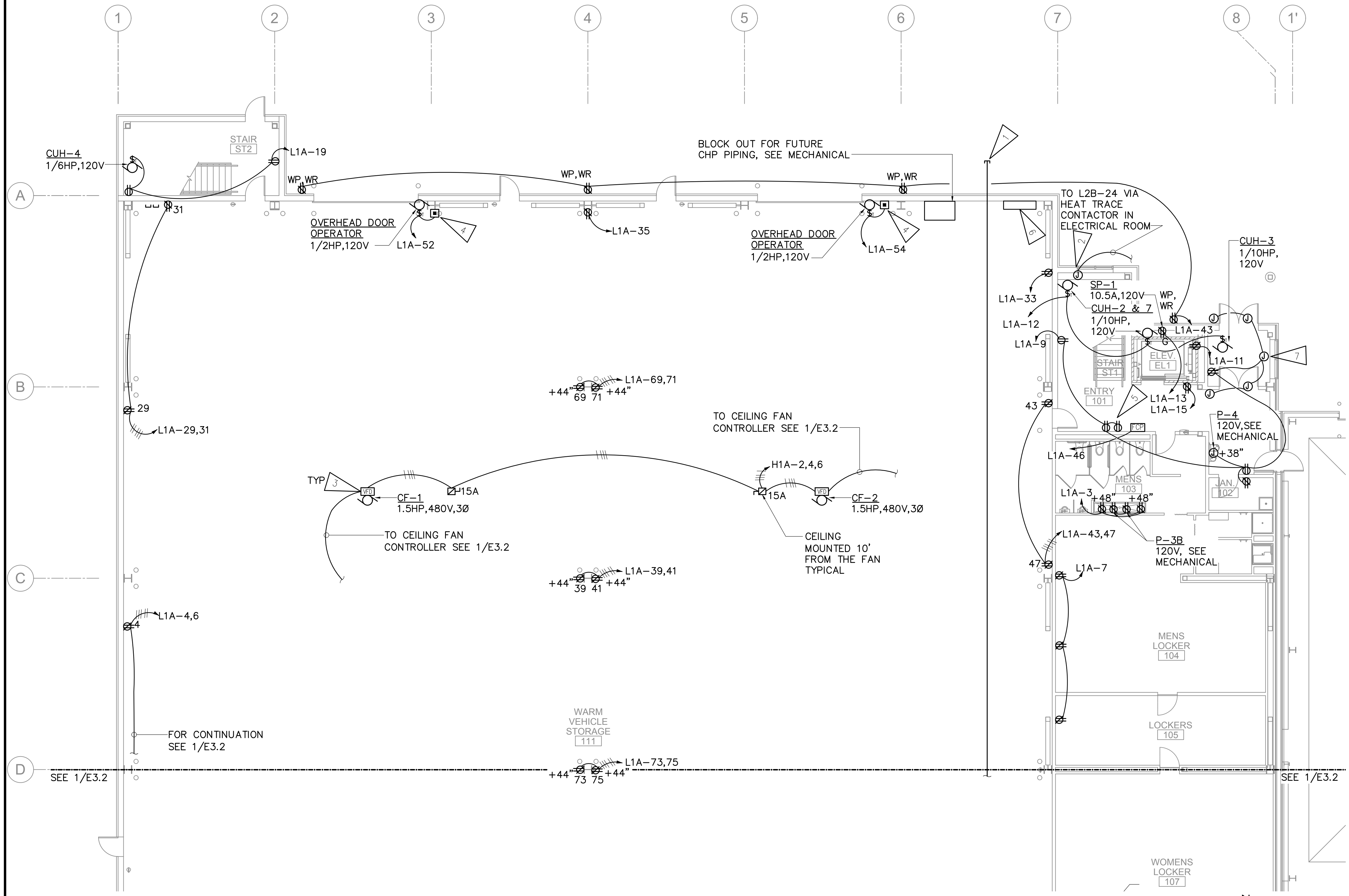
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 KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
SECOND FLOOR LIGHTING PLAN - NORTH AREA
 DWG E2.4
 DATE: APRIL 2021 GRID: SW 2431
 PROJ. ID.: WW.H7775
 SHEET 256 of 288

GENERAL NOTES:

- A. ALL RECEPTACLES IN WARM VEHICLE STORAGE 111 SHALL BE GFCI TYPE AND MOUNTED AT 44" AFF, UNLESS OTHERWISE NOTED.

SHEET NOTES:

1. EMPTY CONDUITS STUBBED 5' OUT FROM THE BUILDING FOUNDATION AND CAPPED FOR FUTURE CONNECTION OF A CHP. SEE 1/E0.3.
2. INSTALL HEATING CABLE INSIDE RAIN LEADER PIPING. HEAT TRACE TO BE CONTROLLED VIA DDC THROUGH CONTACTOR IN ELECTRICAL ROOM. SEE 1/E3.5 AND 3/E6.7.
3. FAN-MOUNTED VFD. COORDINATE WITH MECHANICAL.
4. CONNECT OVERHEAD DOOR CONTROL STATIONS AND ALL SAFETIES, SEE SPEC SECTION 08 36 13.
5. INSTALL RECESSED POWER/DATA IN COMBINATION RECESSED AV BOX +60" AFF FOR FUTURE USE.
6. RADIANT HEAT MANIFOLD. SEE MECHANICAL.
7. JUNCTION BOX FOR CONNECTION OF ADA DOOR OPENER POWER SUPPLY AND CONTROL SWITCHES. LOCATE POWER SUPPLY ABOVE ACCESSIBLE CEILING AND PROVIDE CONDUIT AND WIRE BETWEEN POWER SUPPLY, DOOR OPERATOR, AND CONTROLS IN ACCORDANCE WITH THE SPECIFICATIONS.



1 FIRST FLOOR POWER PLAN - NORTH AREA
E3.1 1/8" = 1'-0"

REV	DATE	DESCRIPTION	BY

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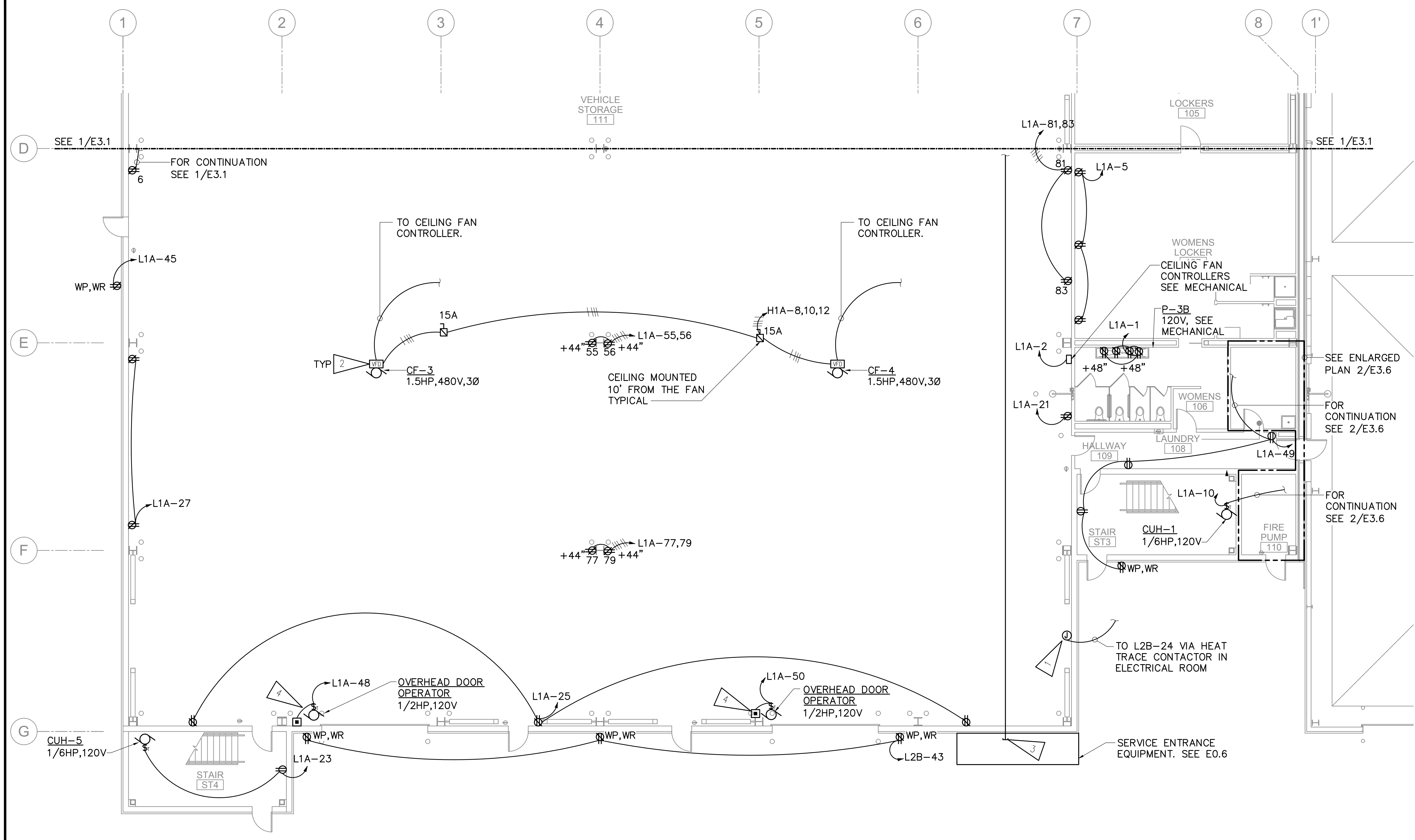
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

FIRST FLOOR POWER PLAN - NORTH AREA

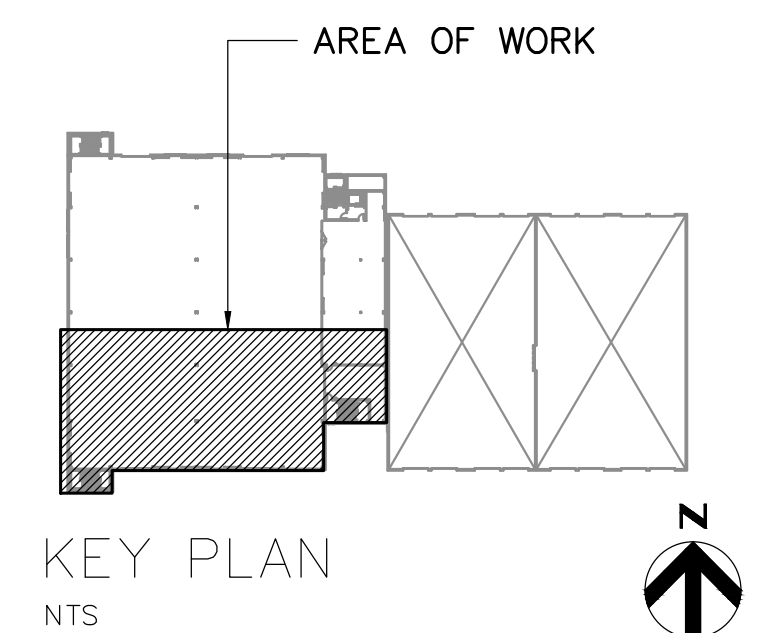
HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775

DWG
E3.1
 SHEET 258 of 288



- GENERAL NOTES:**
A. SEE GENERAL NOTES ON SHEET E3.1.
- SHEET NOTES:**
1. INSTALL 12W/FT SELF-REGULATING HEATING CABLE INSIDE RAIN LEADER PIPING, RAYCHEM #GM-1XT OR APPROVED EQUAL HEAT TRACE TO BE CONTROLLED VIA DDC THROUGH CONTACTOR IN MECHANICAL ROOM. SEE 1/E3.5, 3/E6.7, AND MECHANICAL.
 2. FAN-MOUNTED VFD. COORDINATE WITH MECHANICAL.
 3. EMPTY CONDUITS TURNED UP AT FOUNDATION WALL AND CAPPED 24" BELOW GRADE FOR FUTURE CHP INTERCONNECTING DISCONNECT. SEE 1/E0.3 AND E0.6.
 4. CONNECT OVERHEAD DOOR CONTROL STATIONS AND ALL SFTIES, SEE SPEC SECTION 08 36 13.

1 FIRST FLOOR POWER PLAN - SOUTH AREA
E3.2 1/8" = 1'-0"



REV	DATE	DESCRIPTION	BY

REVISIONS

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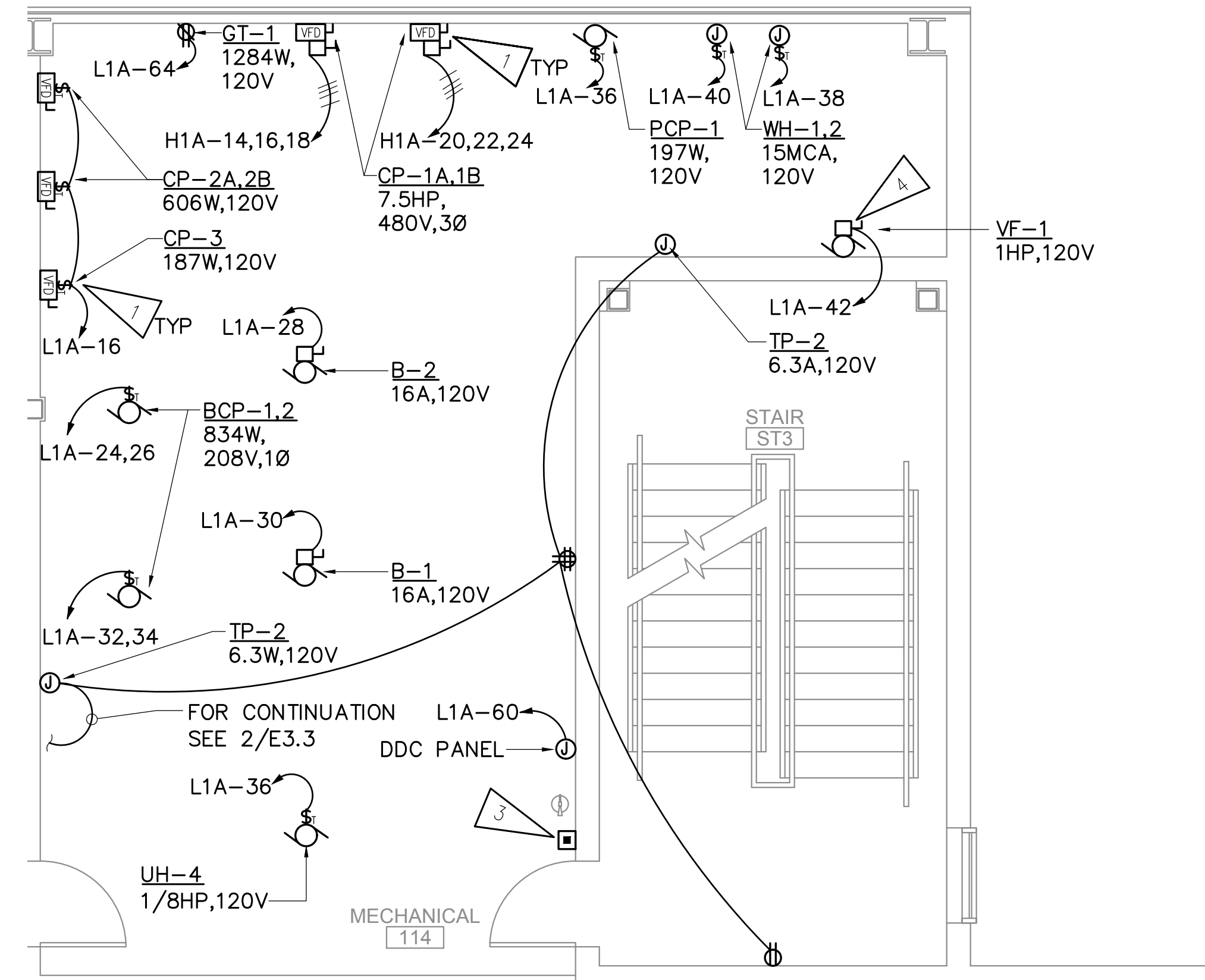
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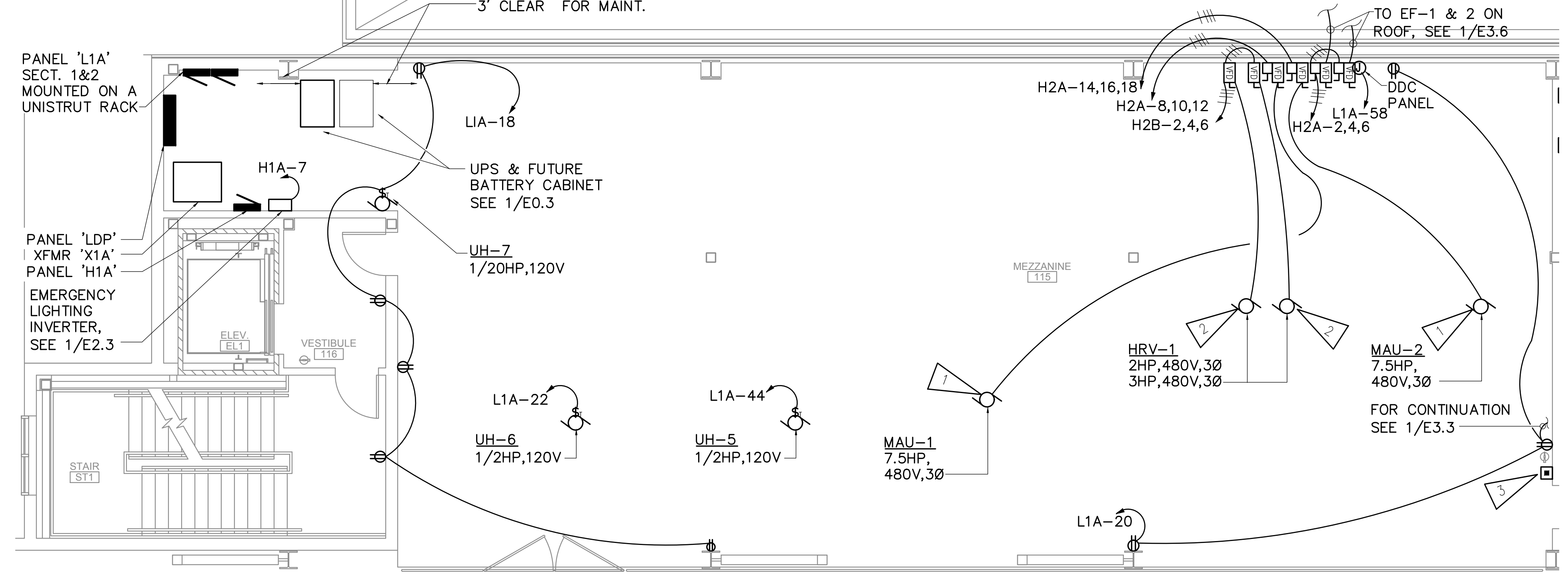
FIRST FLOOR POWER PLAN - SOUTH AREA

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
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DWG E3.2
 SHEET 259 of 288



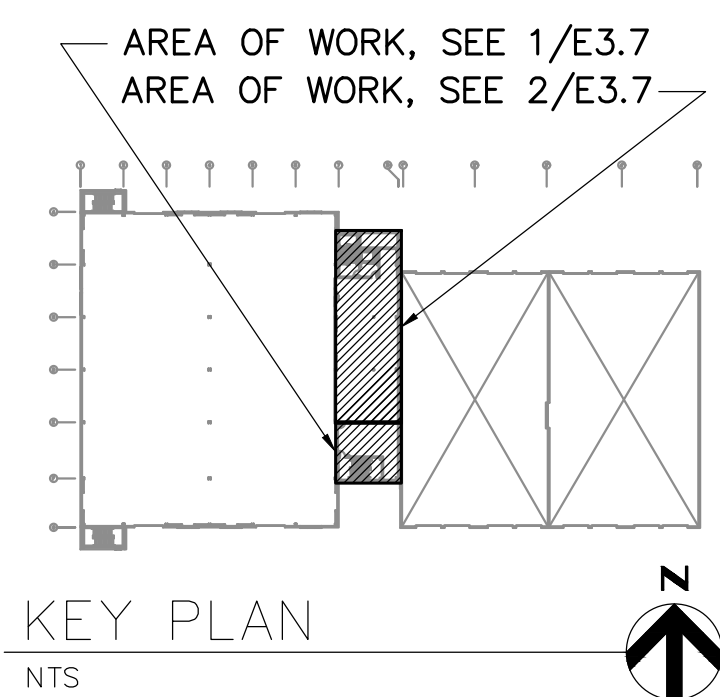
1 MECHANICAL ROOM ENLARGED POWER PLAN
E3.3 1/4" = 1'-0"



2 MEZZANINE ENLARGED POWER PLAN
E3.3 1/4" = 1'-0"

SHEET NOTES:

1. VFD FURNISHED WITH UNIT, PROVIDE DISCONNECT SWITCH. SEE MECHANICAL.
2. VFD FURNISHED WITH UNIT, PROVIDE DISCONNECT SWITCH. SEE MECHANICAL.
3. EMERGENCY BOILER SHUT OFF SWITCH. CONNECT TO BOILER SHUT OFF CIRCUIT PER BOILER MANUFACTURER'S INSTRUCTION. SEE SPEC SECTION 23 09 23.
4. VF-1 PROVIDED WITH FACTORY MOUNTED, PRE-WIRED SPEED CONTROL AND DISCONNECT.



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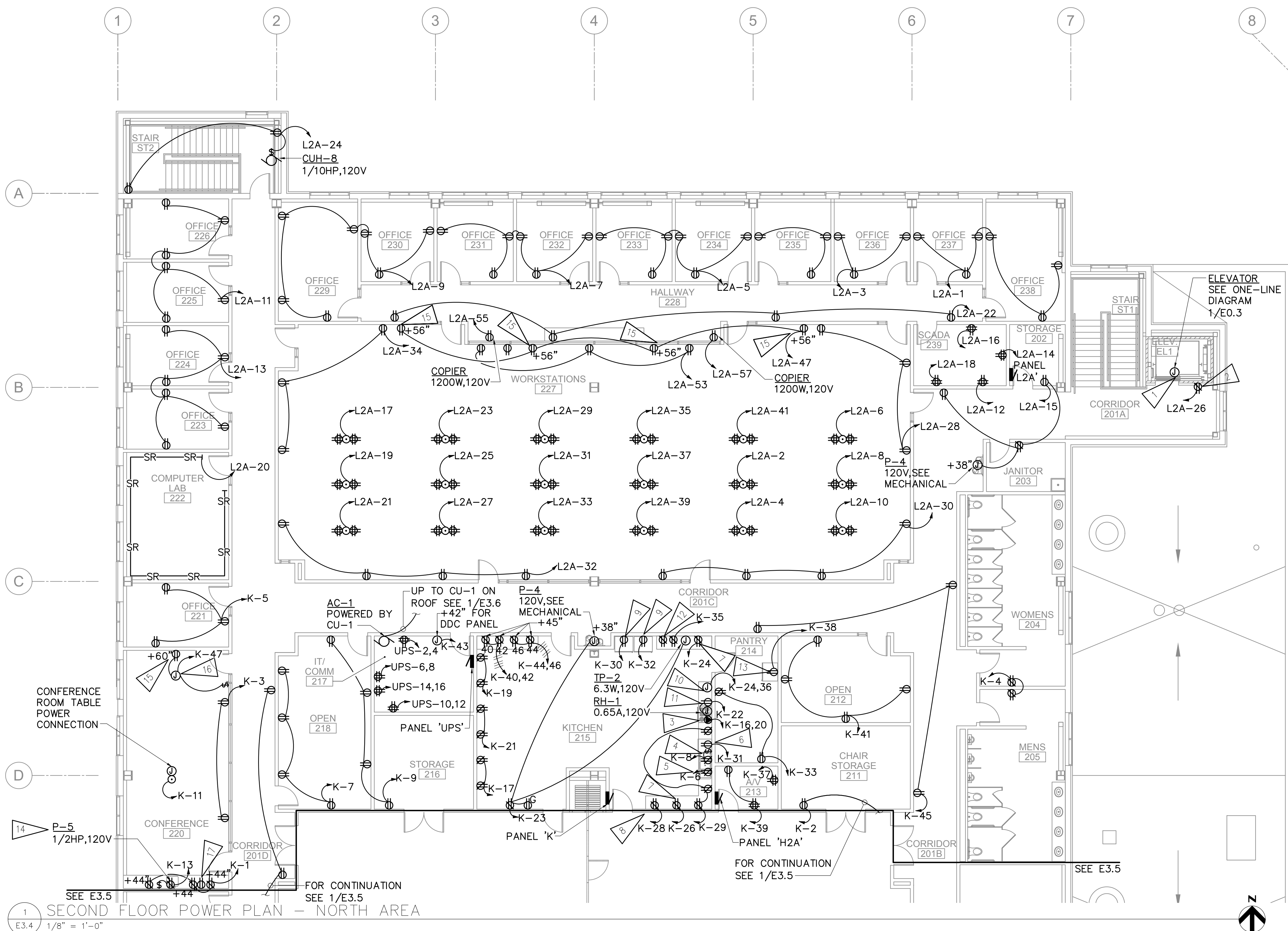
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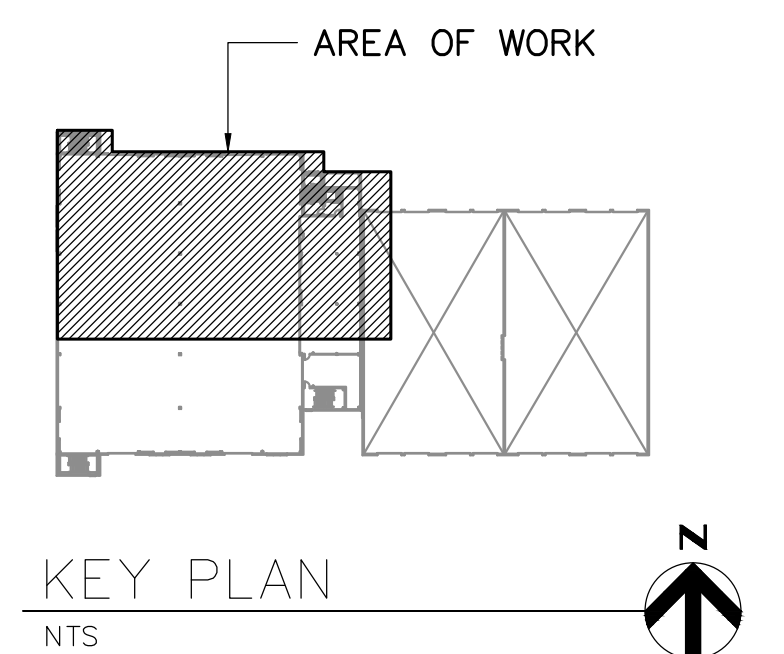
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MEZZANINE POWER PLAN
 DWG
E3.3
 HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775
 SHEET 260 of 288



SHEET NOTES:

1. PROVIDE CONNECTION TO ELEVATOR CONTROLLER IN DOOR JAMB. COORDINATE WITH ELEVATOR MANUFACTURER. SEE 1/E0.3 FOR FEEDER SIZE/TYPE. ELEVATOR HAS BUILT-IN DISCONNECT. PROVIDE 1/16" STEEL PLATE BEHIND CONTROLLER CABINET, PER MOA NEC AMENDMENT 620.71(A).
2. DEDICATED CIRCUIT FOR ELEVATOR MACHINE SPACE.
3. ELECTRIC RANGE RECEPTACLE. NEMA 14-50R, 8000W, 208V, 1Ø, 3#8, 1#10GND.
4. RECEPTACLE FOR P=7 GARBAGE DISPOSAL. MOUNT AT +18" AFF. 1/2HP, 120V.
5. RECEPTACLE FOR INSTAHOT. 750W, 120V.
6. DISHWASHER RECEPTACLE. 6.6A, 120V.
7. RECEPTACLE FOR MICROWAVE. 1000W, 120V.
8. RECEPTACLE FOR COFFEE POT. 1500W, 120V.
9. REFRIGERATOR RECEPTACLE. 1800W, 120V.
10. JUNCTION BOX FOR CONNECTION OF WALL OVEN, 2.7KW, 208V, 1Ø. FIELD COORDINATE EXACT MOUNTING HEIGHT PRIOR TO ROUGH-IN.
11. GAS RANGE RECEPTACLE.
12. RECEPTACLE FOR ICE MACHINE, 1020W, 120V, CKT K-25. PROVIDE CONNECTION TO ELECTRIC TRAP PRIMER UNDER COUNTER FROM THIS CIRCUIT. SEE MECHANICAL.
13. FREEZER RECEPTACLE, 1440W, 120V.
14. RECEPTACLE FOR P=5 GARBAGE DISPOSAL. MOUNT AT +18" AFF. 1/2HP, 120V.
15. MOUNT RECEPTACLES IN RECESSED AV BOX WITH DATA OUTLETS. SEE E4.4.
16. JUNCTION BOX IN CEILING FOR CONNECTION OF PROJECTION SCREEN.
17. UNDER COUNTER FOR CONNECTION OF REFRIGERATOR. CONNECT TO CIRCUIT K-15.

1 SECOND FLOOR POWER PLAN - NORTH AREA
E3.4 1/8" = 1'-0"



VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
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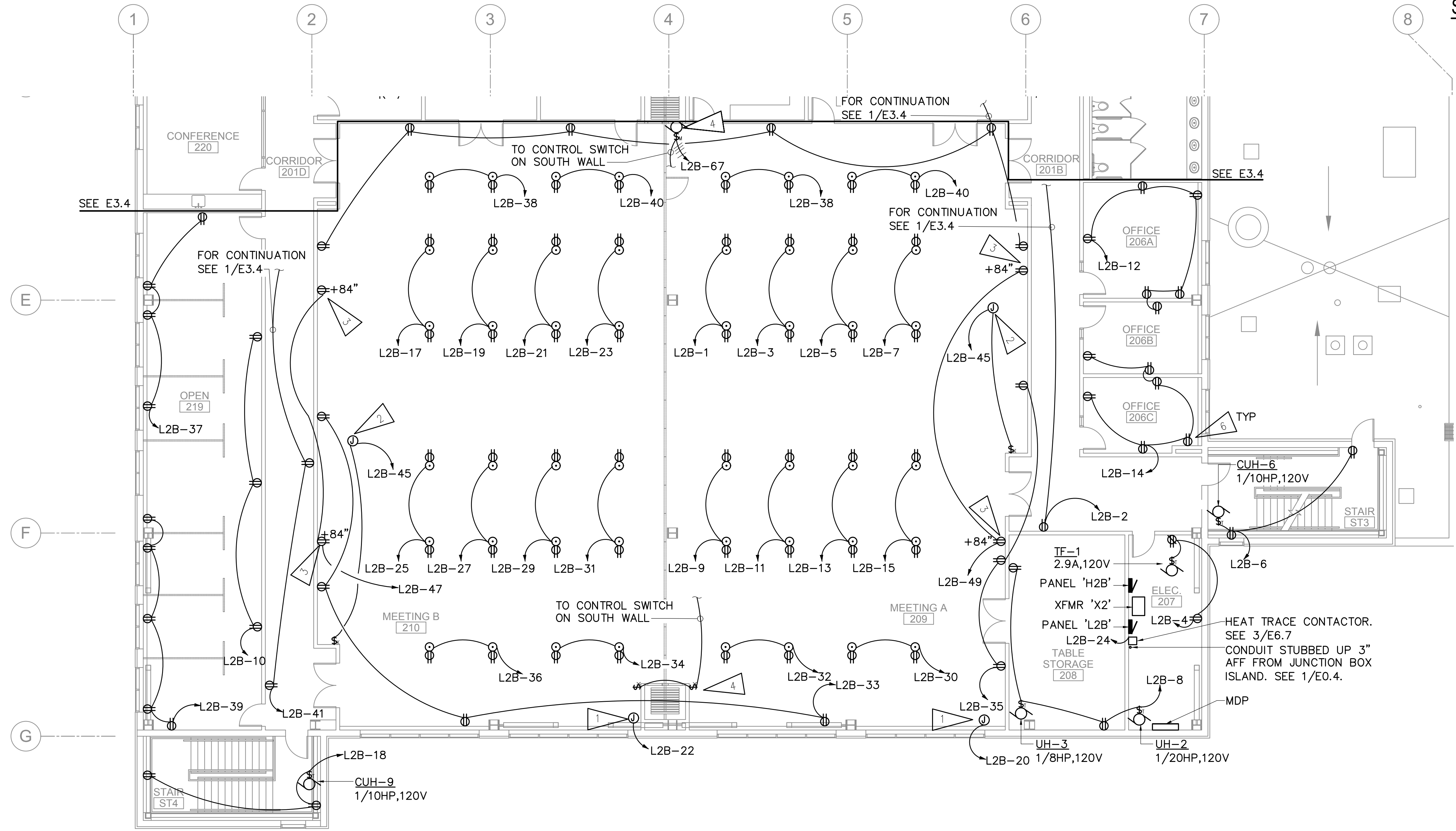
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 Registered Professional Engineer
 License No. 4914
 Exp. 12/31/2021
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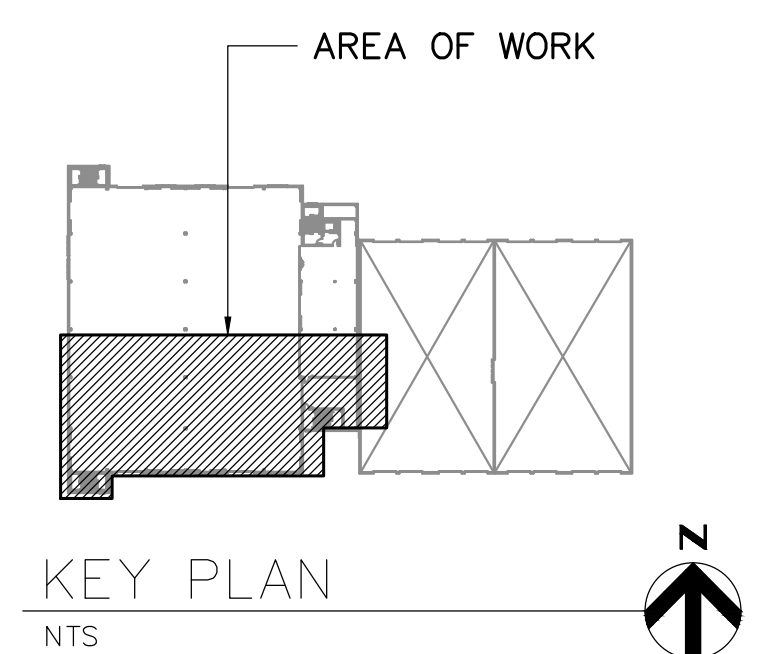
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SECOND FLOOR POWER PLAN - NORTH AREA
 DWG E3.4
 HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A PROJ. ID.: WW.H7775
 SHEET 261 of 288

SHEET NOTES:

1. PROVIDE CONNECTION TO ELECTRIC SHADE POWER SUPPLY ABOVE LAY-IN CEILING. PROVIDE CONDUIT AND WIRE FROM JUNCTION BOX AND ELECTRICAL SHADE MOTOR TO ELECTRIC SHADE CONTROL STATION IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE SPECIFICATIONS. LOCATE ELECTRIC SHADE CONTROL STATION AS DIRECTED BY THE OWNER.
2. JUNCTION BOX IN CEILING FOR CONNECTION OF PROJECTION SCREEN. PROVIDE WIRING TO CONTROL SWITCH. FIELD LOCATE CONTROL SWITCH AS DIRECTED BY THE OWNER.
3. MOUNT RECEPTACLES IN RECESSED AV BOX WITH DATA OUTLETS. SEE E4.5.
4. PROVIDE POWER FOR FOLDING PANEL PARTITION. PROVIDE CONNECTION TO KEY OPERATED CONTROL SWITCHES FOR OPERATION OF THE FOLDING PANEL PARTITION IN ACCORDANCE WITH THE SPECIFICATIONS. LOCATE SWITCHES AS DIRECTED BY THE OWNER. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN.
5. BRANCH CIRCUIT WIRING FOR FLOOR RECEPTACLES IN MEETING ROOMS 210 AND 211 NORTH OF GRIDLINE E.5 SHALL BE #10AWG.
6. FIELD COORDINATE MOUNTING HEIGHT OF RECEPTACLES WITH MECHANICAL AND ARCHITECTURAL TO AVOID CONFLICTS WITH MECHANICAL EQUIPMENT AND WINDOWS PRIOR TO ROUGH-IN.



1 SECOND FLOOR POWER PLAN - SOUTH AREA
E3.5 1/8" = 1'-0"



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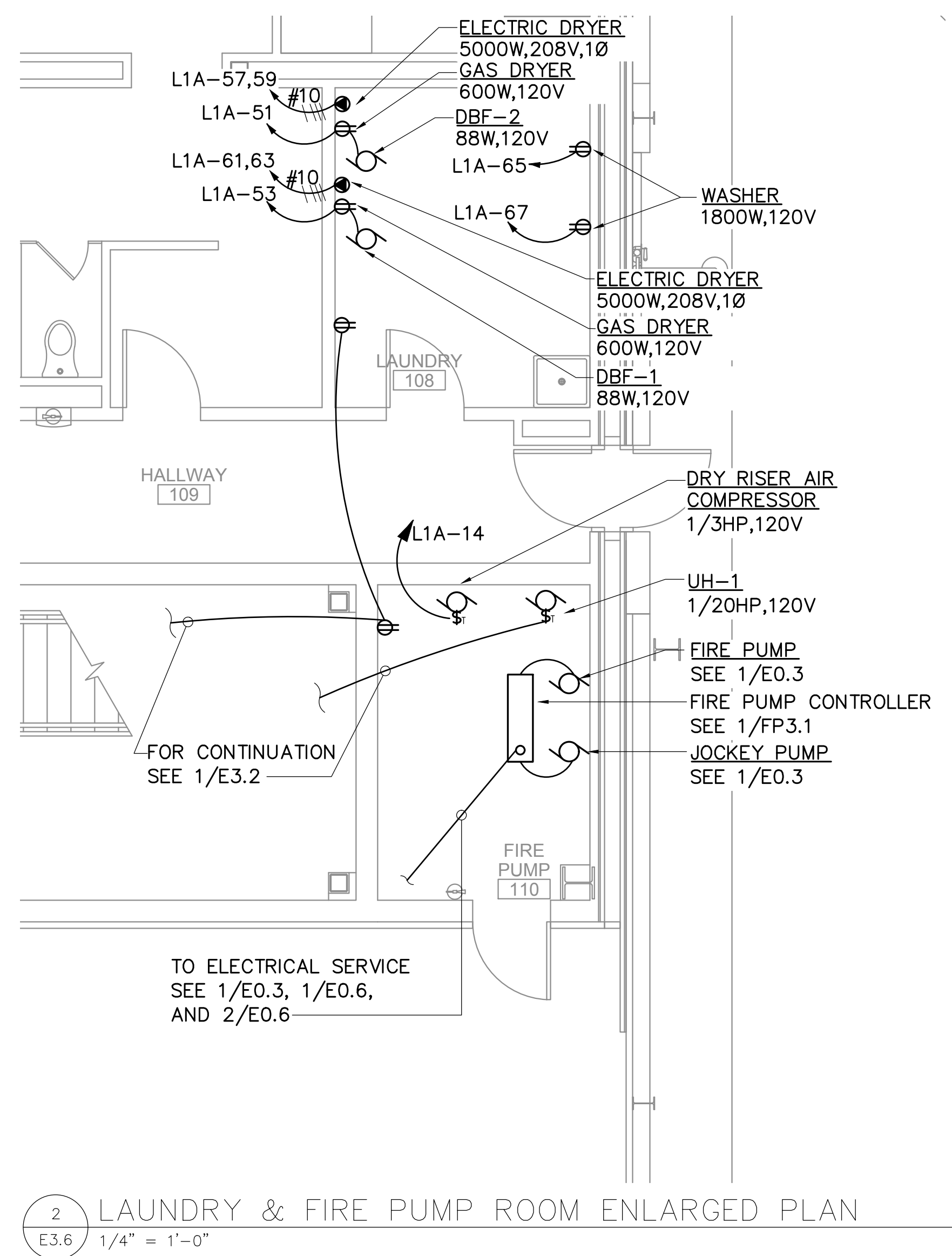
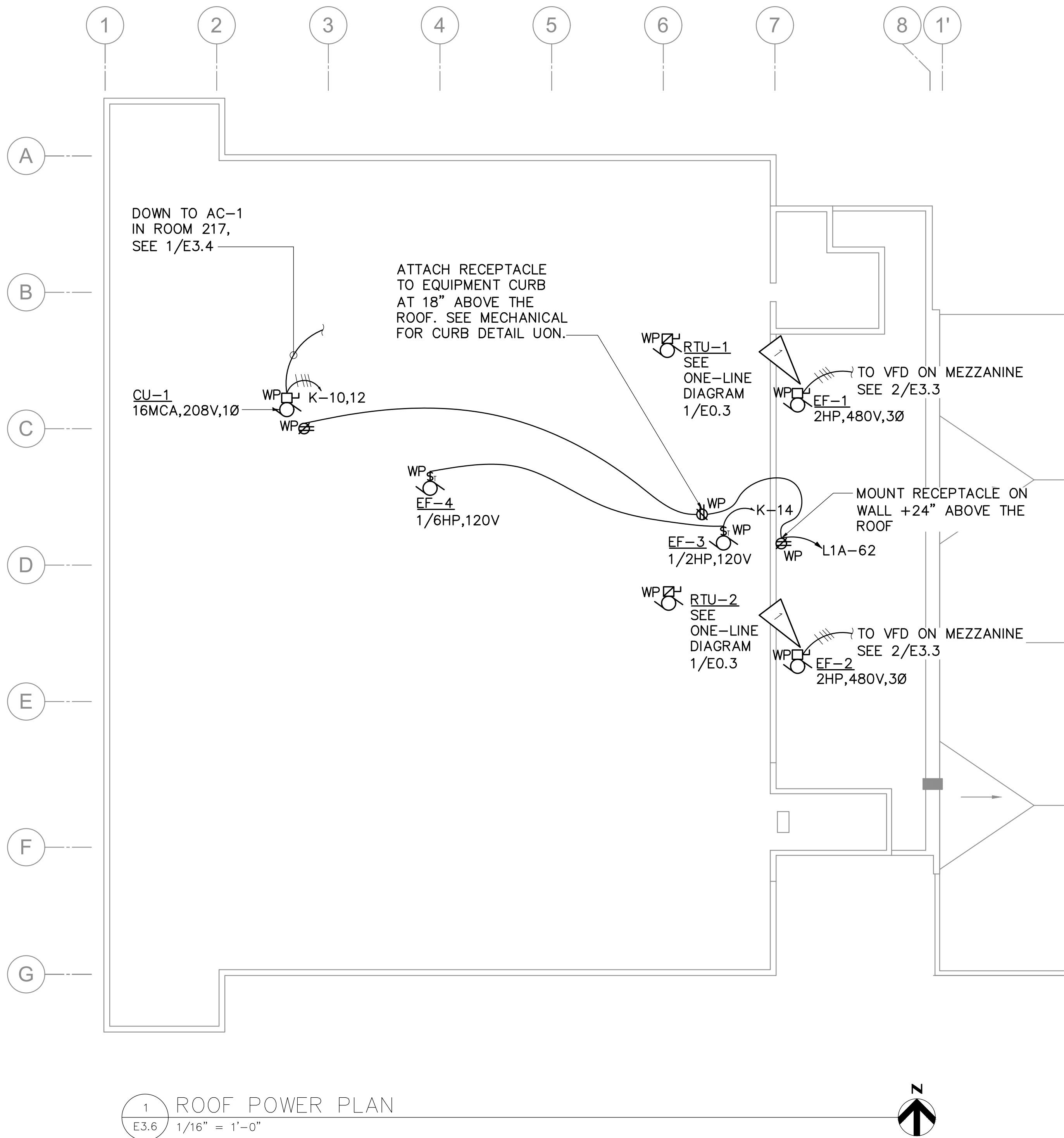
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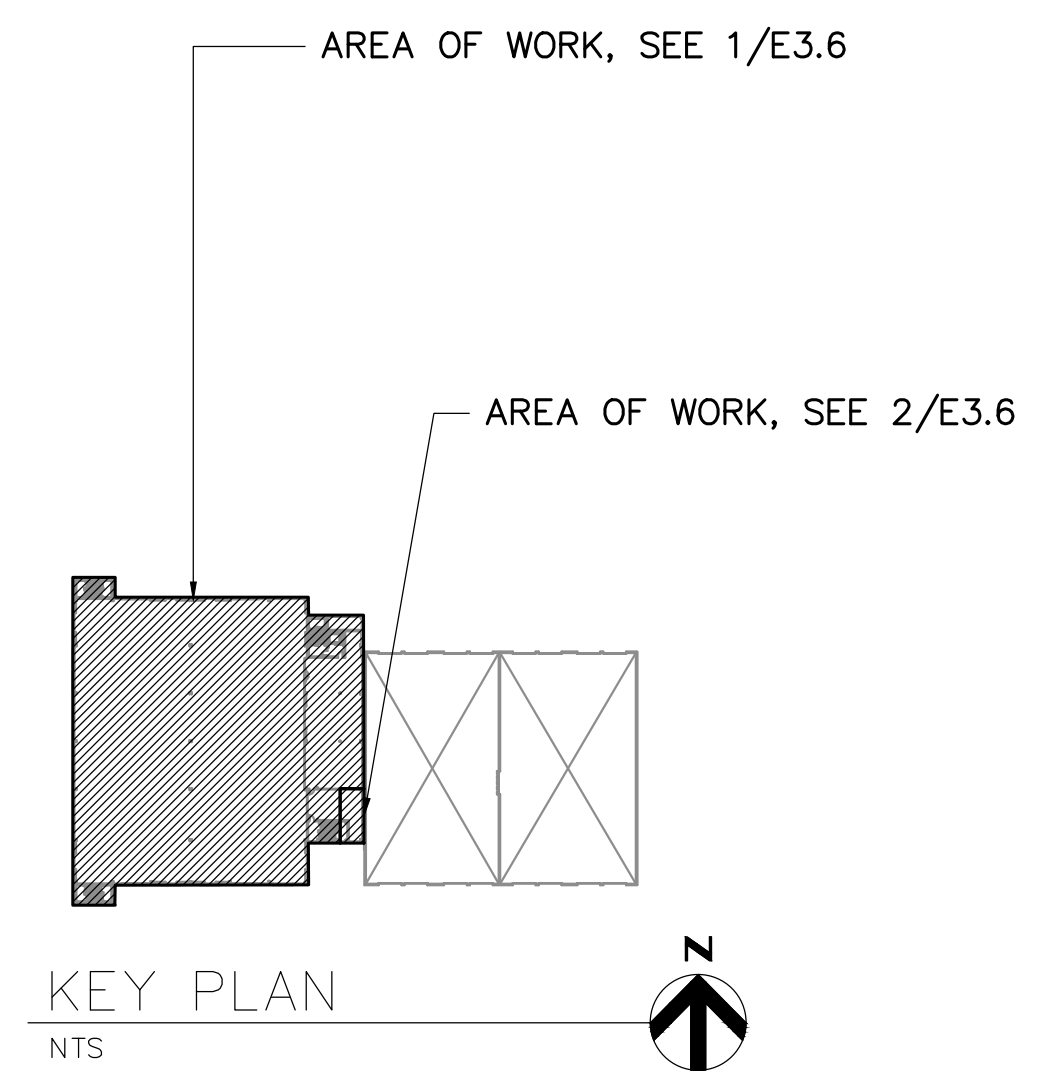
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SECOND FLOOR POWER PLAN - SOUTH AREA
 DWG E3.5
 HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
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 SHEET 262 of 288



SHEET NOTES:

1. NEMA-3R DISCONNECT IS PROVIDED MOUNTED & PRE-WIRED TO THE UNIT. SEE MECHANICAL.



1 ROOF POWER PLAN
E3.6 1/16" = 1'-0"

2 LAUNDRY & FIRE PUMP ROOM ENLARGED PLAN
E3.6 1/4" = 1'-0"

KEY PLAN
NTS

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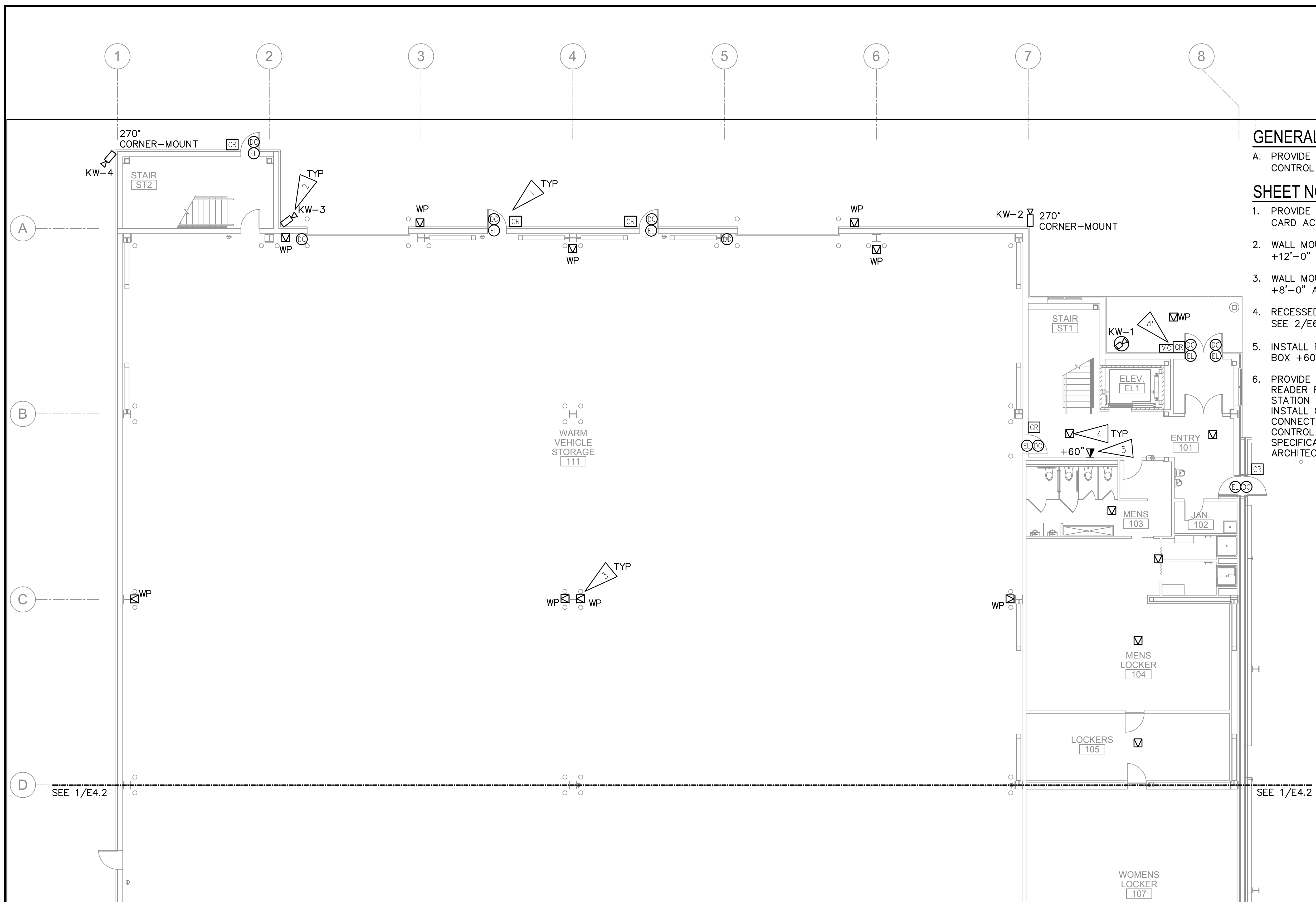
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

ROOF POWER PLAN, LAUNDRY AND FIRE PUMP ROOM ENLARGED PLAN

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DWG E3.6
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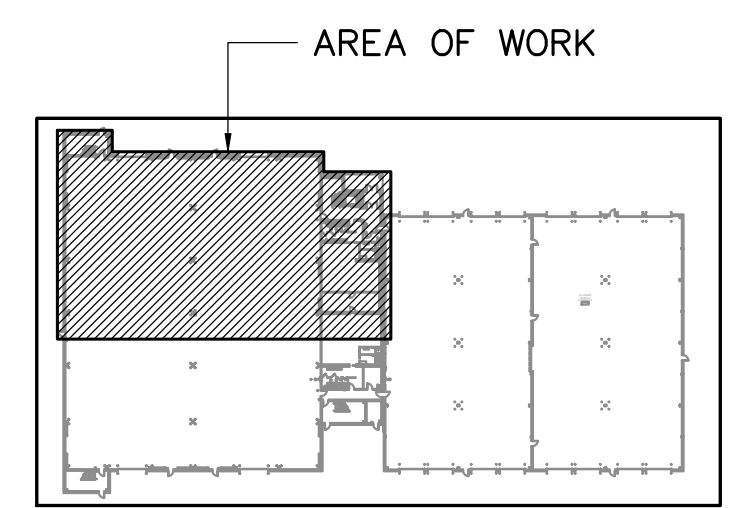


GENERAL NOTES

A. PROVIDE CABLING FROM ALL CAMERAS AND ACCESS CONTROL COMPONENTS TO THE IT/COMM ROOM.

SHEET NOTES

1. PROVIDE CONDUIT, CONDUCTORS AND EQUIPMENT FOR CARD ACCESS CONTROL AT DOOR INDICATED. SEE 1/E6.1.
2. WALL MOUNTED IP VIDEO SURVEILLANCE CAMERA. MOUNT +12'-0" AFG. SEE 1/E6.8.
3. WALL MOUNTED WEATHERPROOF PAGING SPEAKER. MOUNT +8'-0" AFF. SEE 2/E6.8.
4. RECESSED, CEILING MOUNTED PAGING SYSTEM SPEAKER. SEE 2/E6.8.
5. INSTALL POWER/DATA IN COMBINATION RECESSED AV BOX +60" AFF FOR FUTURE USE.
6. PROVIDE NEW AXIS 2N IP FORCE, 1 BUTTON CARD READER READY WITH HD CAMERA PoE VIDEO INTERCOM STATION #01344-001 OR EQUAL IN FLUSH WALL BOX. INSTALL CARD READER IN VIDEO INTERCOM STATION AND CONNECT STATION AND CARD READER TO THE ACCESS CONTROL SYSTEM TO CONTROL THE DOOR LOCK. SEE SPECIFICATION 28 10 00. COORDINATE WITH ARCHITECTURAL FOR LAYOUT.



KEY PLAN
NTS

1 FIRST FLOOR SIGNAL PLAN - NORTH AREA
E4.1 1/8" = 1'-0"

REV	DATE	DESCRIPTION	BY

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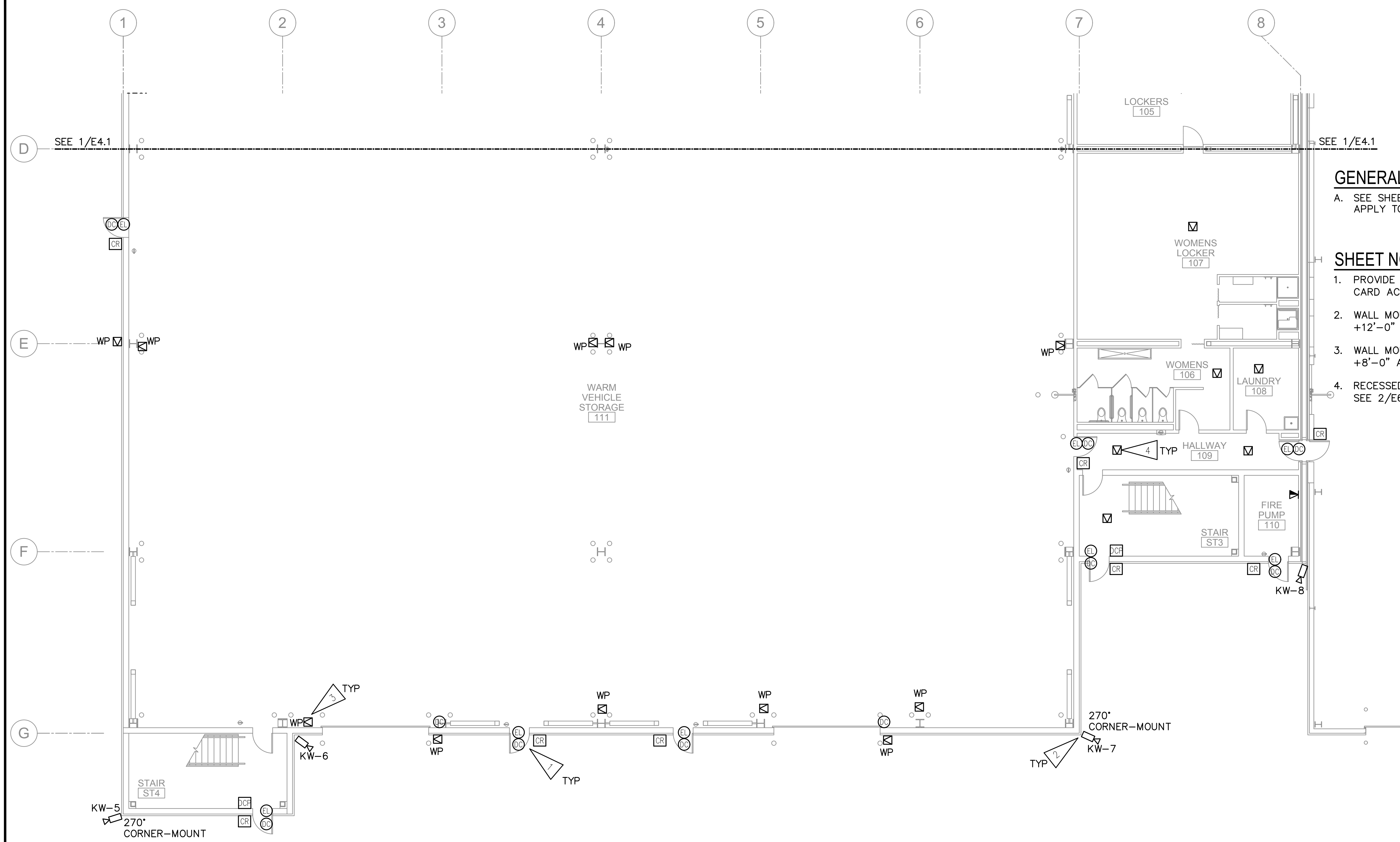
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FIRST FLOOR SIGNAL PLAN - NORTH AREA

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E4.1
SHEET 264 of 288

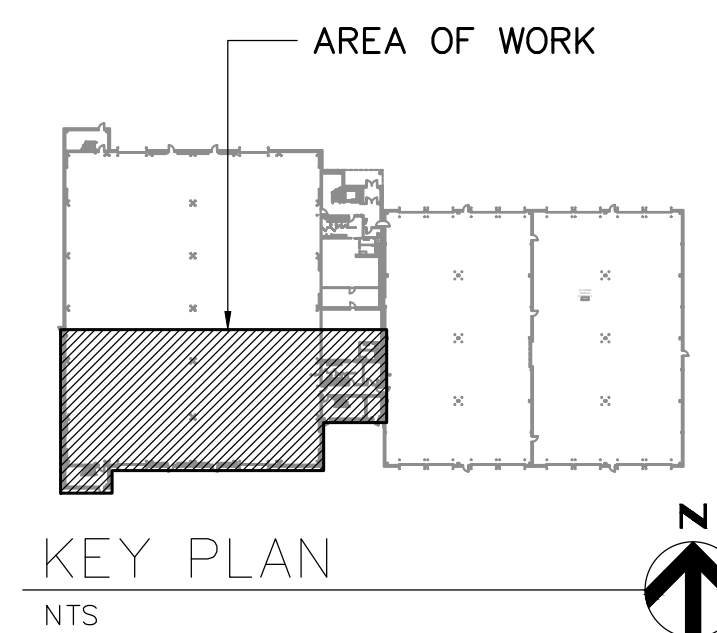


GENERAL NOTES

A. SEE SHEET E4.1 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

SHEET NOTES

1. PROVIDE CONDUIT, CONDUCTORS AND EQUIPMENT FOR CARD ACCESS CONTROL AT DOOR INDICATED. SEE 1/E6.1.
2. WALL MOUNTED IP VIDEO SURVEILLANCE CAMERA. MOUNT +12'-0" AFG. SEE 1/E6.8.
3. WALL MOUNTED WEATHERPROOF PAGING SPEAKER. MOUNT +8'-0" AFF. SEE 2/E6.8.
4. RECESSED, CEILING MOUNTED PAGING SYSTEM SPEAKER. SEE 2/E6.8.



1 FIRST FLOOR SIGNAL PLAN - SOUTH AREA
E4.2 1/8" = 1'-0"

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
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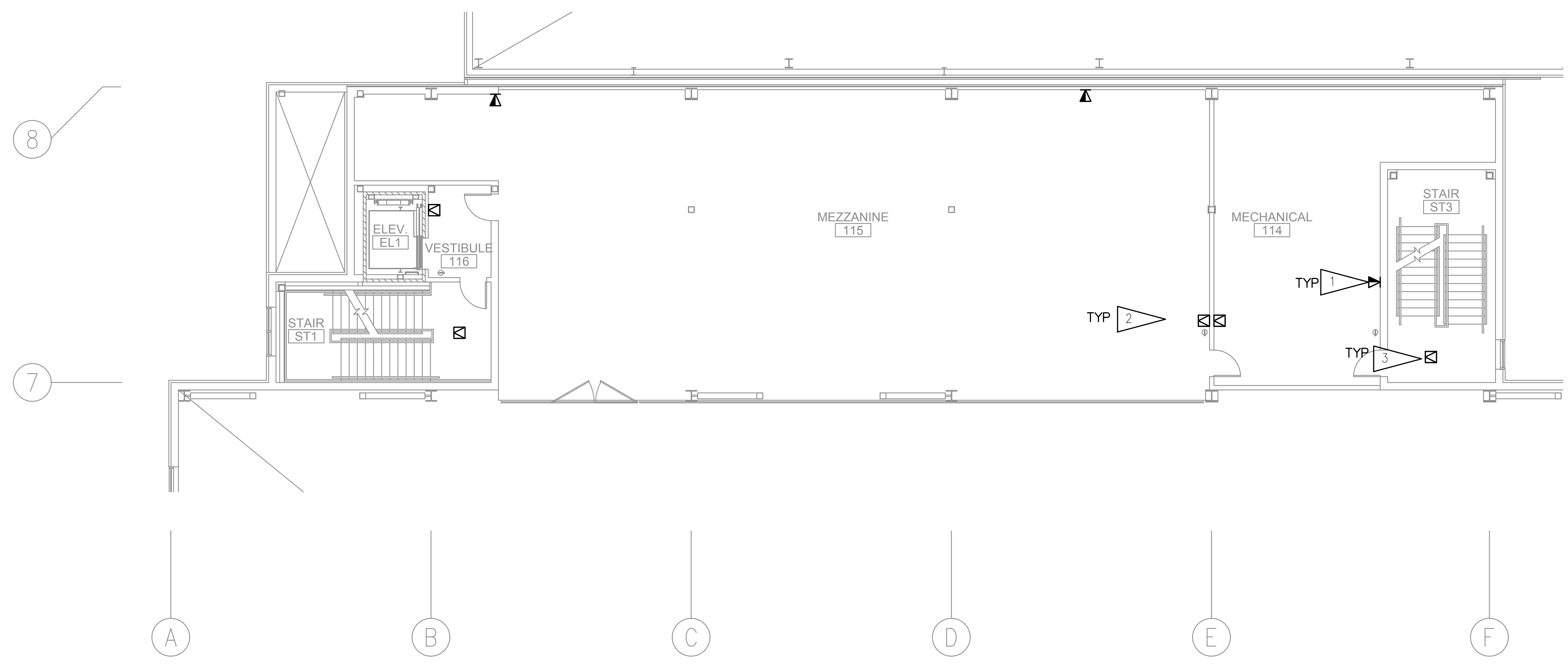
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DWG E4.2
SHEET 265 of 288



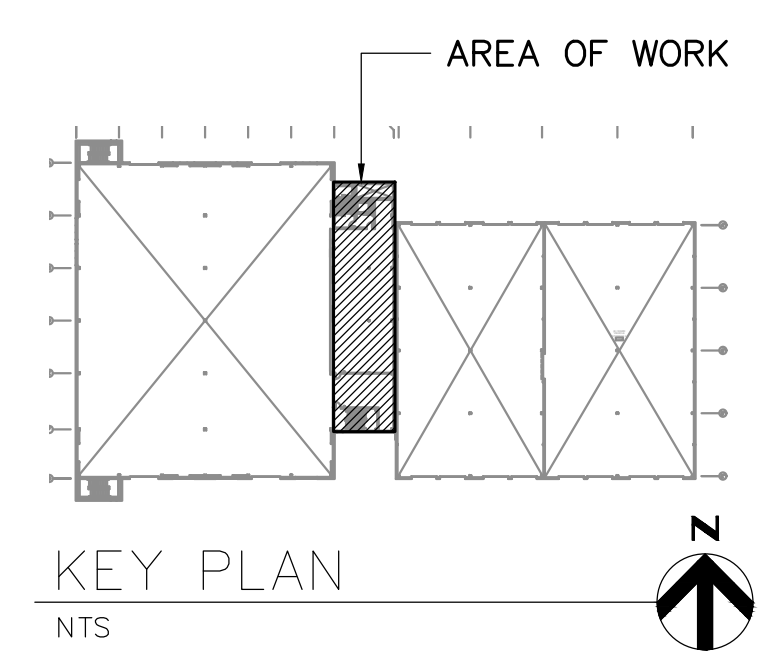
1 MEZZANINE SIGNAL PLAN
E4.3 1/8" = 1'-0"

GENERAL NOTES

A. SEE SHEET E4.1 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

SHEET NOTES

1. PROVIDE DEDICATED CAT 6 CABLE FOR EACH DDC PANEL AND THE UPS. COORDINATE LOCATION WITH MECHANICAL.
2. WALL MOUNTED PAGING SYSTEM SPEAKER. MOUNT +84" AFF. SEE 2/E6.8.
3. RECESSED CEILING MOUNTED PAGING SYSTEM SPEAKER. SEE 2/E6.8.



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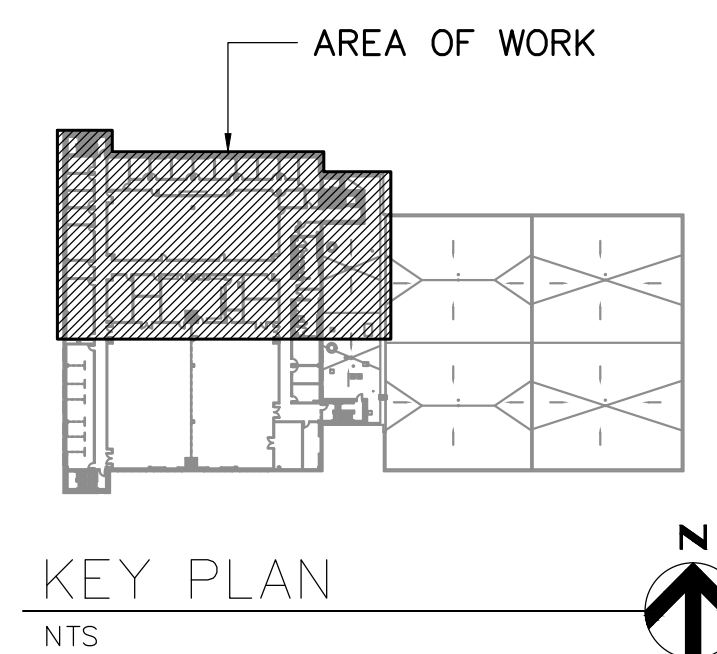
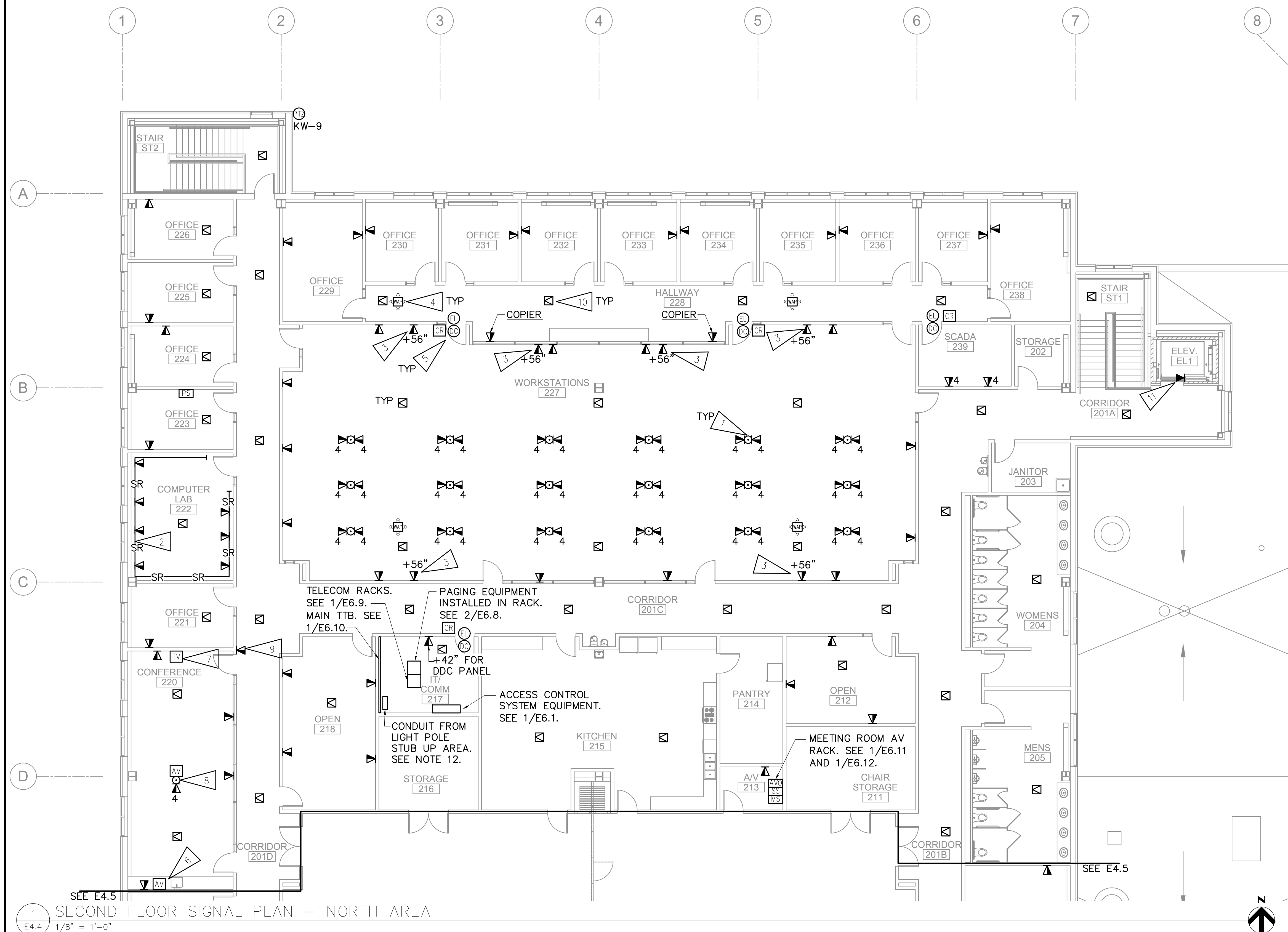
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 KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
MEZZANINE SIGNAL PLAN
 DWG E4.3
 HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775
 SHEET 266 of 288

GENERAL NOTES

- A. SEE 2/E6.9 FOR TYPICAL TELECOM JACK DETAIL.
- B. PROVIDE CABLING FROM ALL CAMERAS AND ACCESS CONTROL COMPONENTS TO THE IT/COMM ROOM.

SHEET NOTES

1. COMBINATION POWER/DATA LARGE CAPACITY FLOORBOX.
2. INSTALL DATA OUTLET IN POWER/DATA SURFACE RACEWAY.
3. INSTALL RECESSED POWER/DATA IN COMBINATION RECESSED AV BOX +56" AFF.
4. CEILING MOUNTED CAT 6 JACK FOR CONNECTION TO WIRELESS ACCESS POINT.
5. PROVIDE CONDUIT, CONDUCTORS AND EQUIPMENT FOR CARD ACCESS CONTROL AT DOOR INDICATED. SEE 1/E6.1.
6. INSTALL POWER/DATA/HDMI IN COMBINATION RECESSED AV BOX +60" AFF. ROUTE HDMI CABLE TO FLOORBOX IN CONFERENCE ROOM AND AN HDMI CABLE TO THE AV BOX IN THE CASEWORK ON THE SOUTH SIDE OF THE CONFERENCE ROOM. SEE NOTE 7.
7. PROVIDE CAT 6 OUTLET AND HDMI OUTLET +18" AND CONNECT TO TV IN CONFERENCE ROOM. SEE NOTE 6.
8. PROVIDE LARGE CAPACITY COMBINATION POWER/DATA/AV FLOORBOX. PROVIDE HDMI CABLE TO TV. SEE NOTE 6.
9. PROVIDE CAT 6 CONNECTION TO CONFERENCE ROOM SCHEDULER. PROVIDE 4" SQ J-BOX WITH 18" LENGTH OF CAT 6 WITH RJ45 JACK TERMINATED AT END OF CABLE. ROUGH IN BOX 6" FROM EDGE OF DOOR FRAME.
10. RECESSED, CEILING MOUNTED PAGING SYSTEM SPEAKER. SEE 2/E6.8.
11. PROVIDE PHONE CONNECTION FOR ELEVATOR CONTROLLE AND CONNECT AHEAD OF TELEPHONE SWITCH.
12. STUB UP CONDUITS FROM THE PARKING LOT LIGHT POLES 3" ABOVE THE FLOOR IN THE AREA SHOWN. SEE 1/E0.5.



1 SECOND FLOOR SIGNAL PLAN - NORTH AREA
E4.4 1/8" = 1'-0"

REV	DATE	DESCRIPTION	BY

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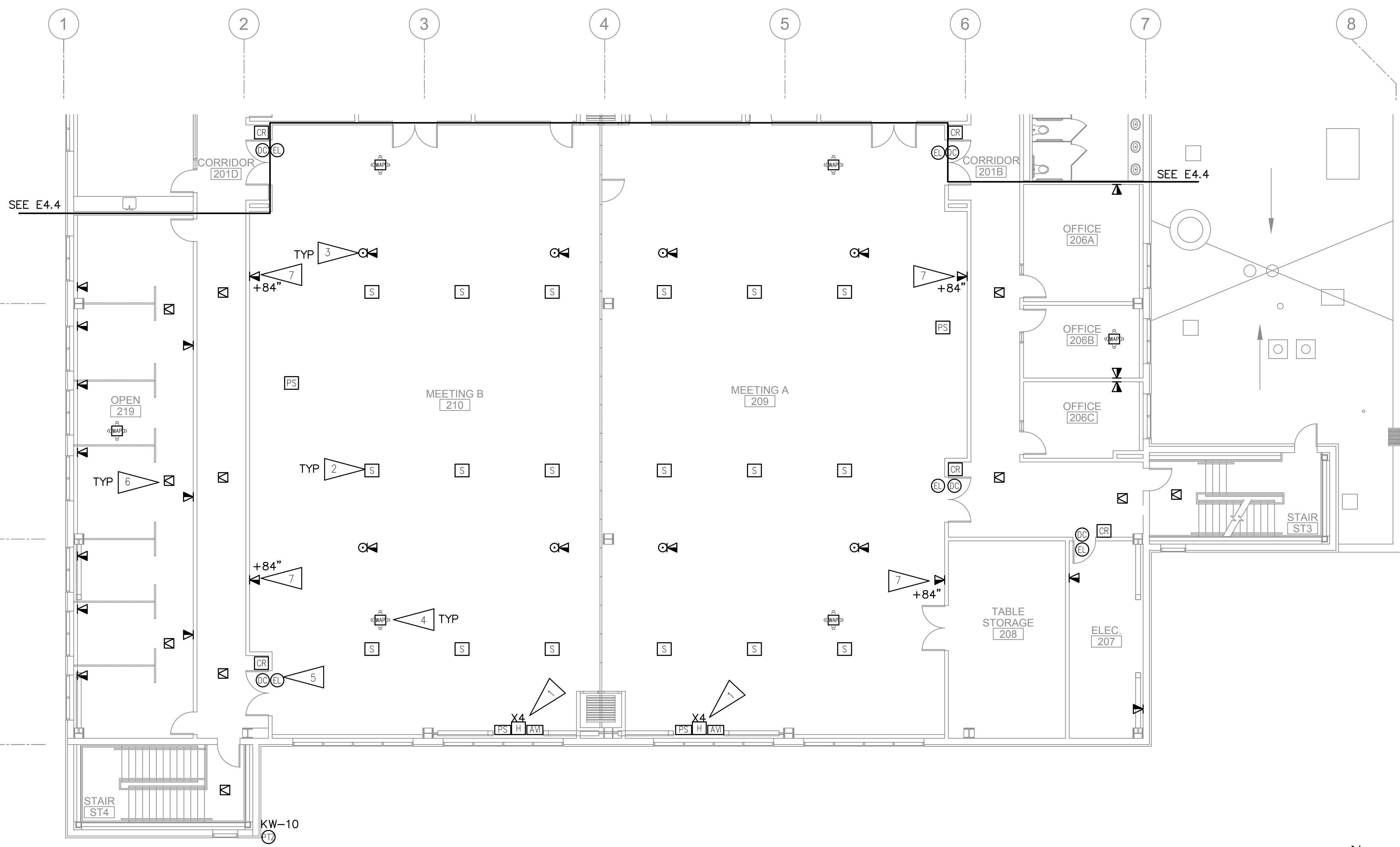
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SECOND FLOOR SIGNAL PLAN - NORTH AREA

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DWG E4.4
 SHEET 267 of 288

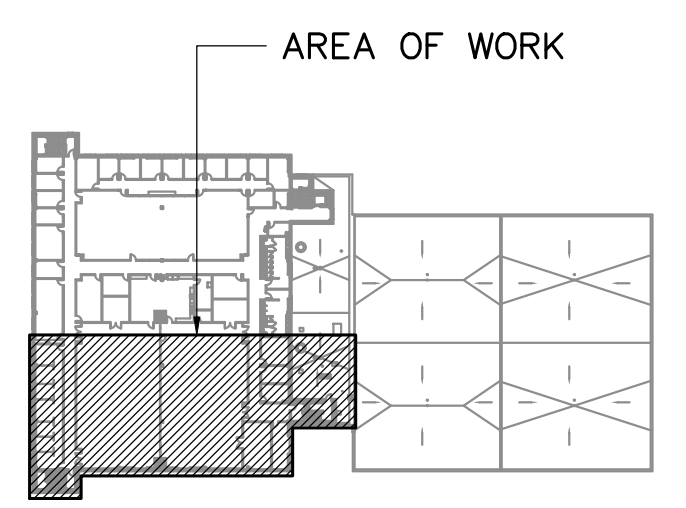


GENERAL NOTES

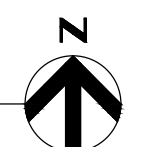
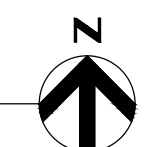
A. SEE SHEET E4.4 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

SHEET NOTES

1. AV SYSTEM COMPONENTS. SEE 1/E6.11
2. RECESSED CEILING MOUNTED AV SPEAKER. SEE 1/E6.11.
3. FLOORBOX INDICATED SHALL BE A COMBINATION POWER/DATA LARGE CAPACITY FLOORBOX.
4. CEILING MOUNTED CAT 6 JACK FOR CONNECTION TO WIRELESS ACCESS POINT.
5. PROVIDE CONDUIT, CONDUCTORS AND EQUIPMENT FOR CARD ACCESS CONTROL AT DOOR INDICATED. SEE 1/E6.1.
6. RECESSED, CEILING MOUNTED PAGING SYSTEM SPEAKER. SEE 2/E6.8.
7. INSTALL RECESSED POWER/DATA IN COMBINATION RECESSED AV BOX.



1 SECOND FLOOR SIGNAL PLAN - SOUTH AREA
E4.5 1/8" = 1'-0"



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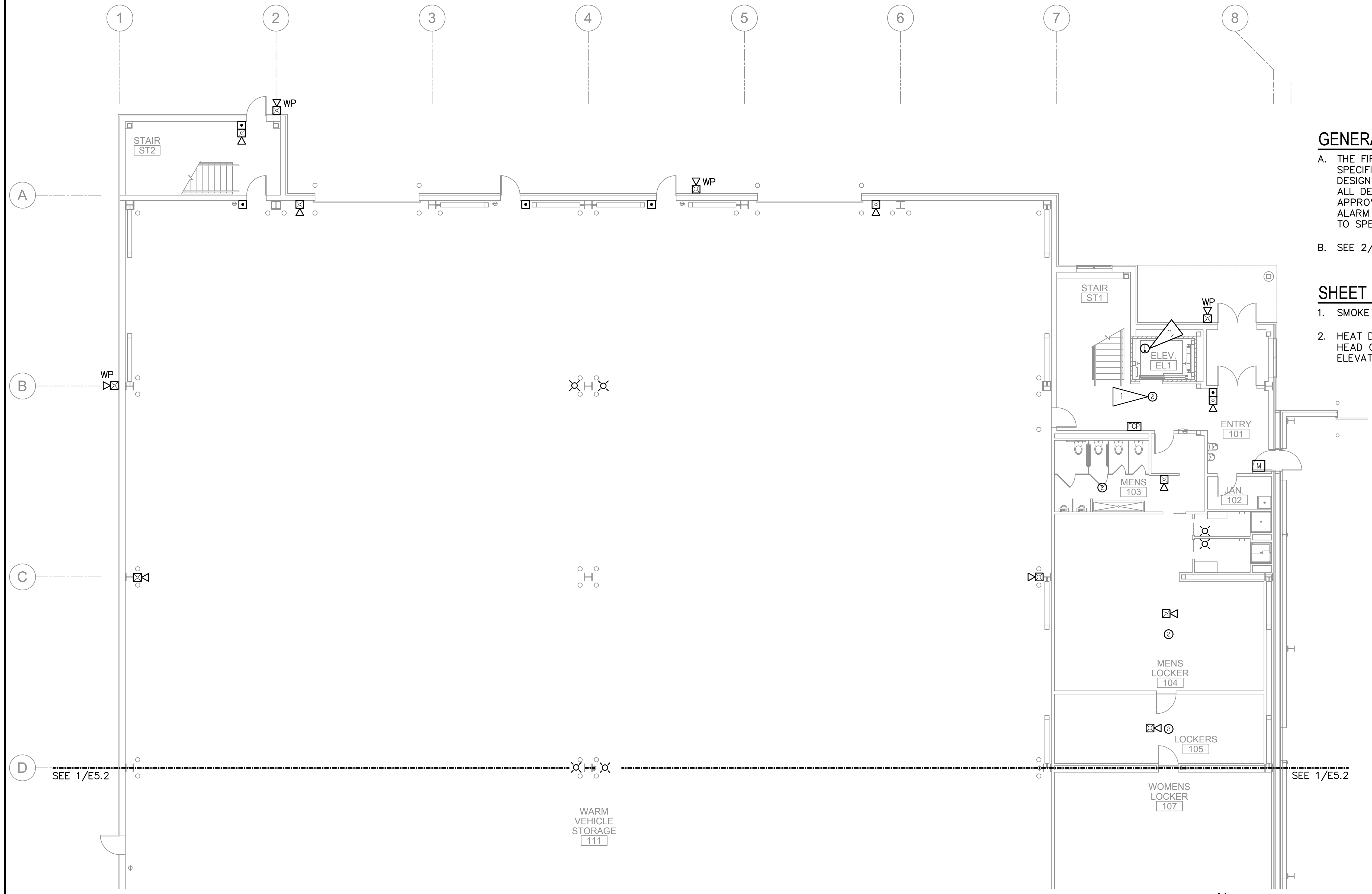
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 DWG E4.5
 HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
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 SHEET 268 of 288

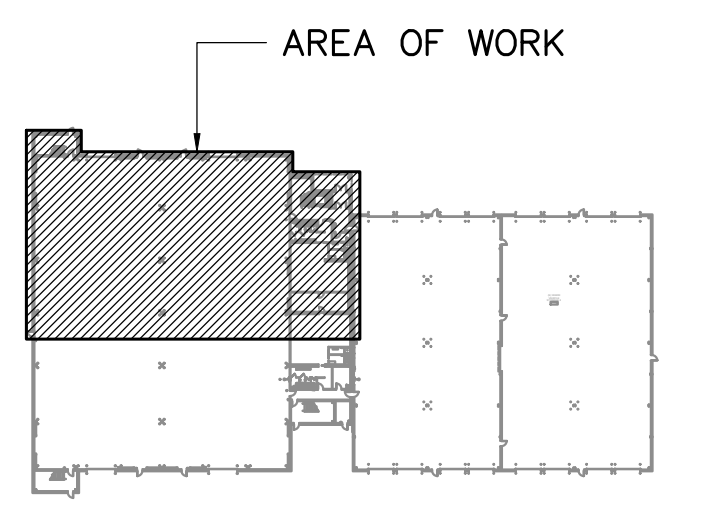


GENERAL NOTES

- A. THE FIRE ALARM SYSTEM IS A PERFORMANCE SPECIFIED SYSTEM. THE LAYOUT SHOWN IS FOR DESIGN INTENT. ACTUAL NUMBER AND LAYOUT OF ALL DEVICES IS PER THE NICET DESIGNER AND APPROVED BY THE LOCAL AHJ DURING THE FIRE ALARM SHOP DRAWING SUBMITTAL PROCESS. REFER TO SPECIFICATION SECTION 28 46 00.
- B. SEE 2/E6.10 FOR FIRE ALARM ONE-LINE DIAGRAM.

SHEET NOTES

- 1. SMOKE DETECTOR FOR ELEVATOR RECALL.
- 2. HEAT DETECTOR LOCATED WITHIN 24" OF SPRINKLER HEAD CONNECTED TO SHUTOFF POWER TO THE ELEVATOR. SEE SPECIFICATIONS.



KEY PLAN
NTS

1 FIRST FLOOR FIRE ALARM PLAN – SOUTH AREA
E5.1 1/8" = 1'-0"

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
REV	DATE	DESCRIPTION	BY

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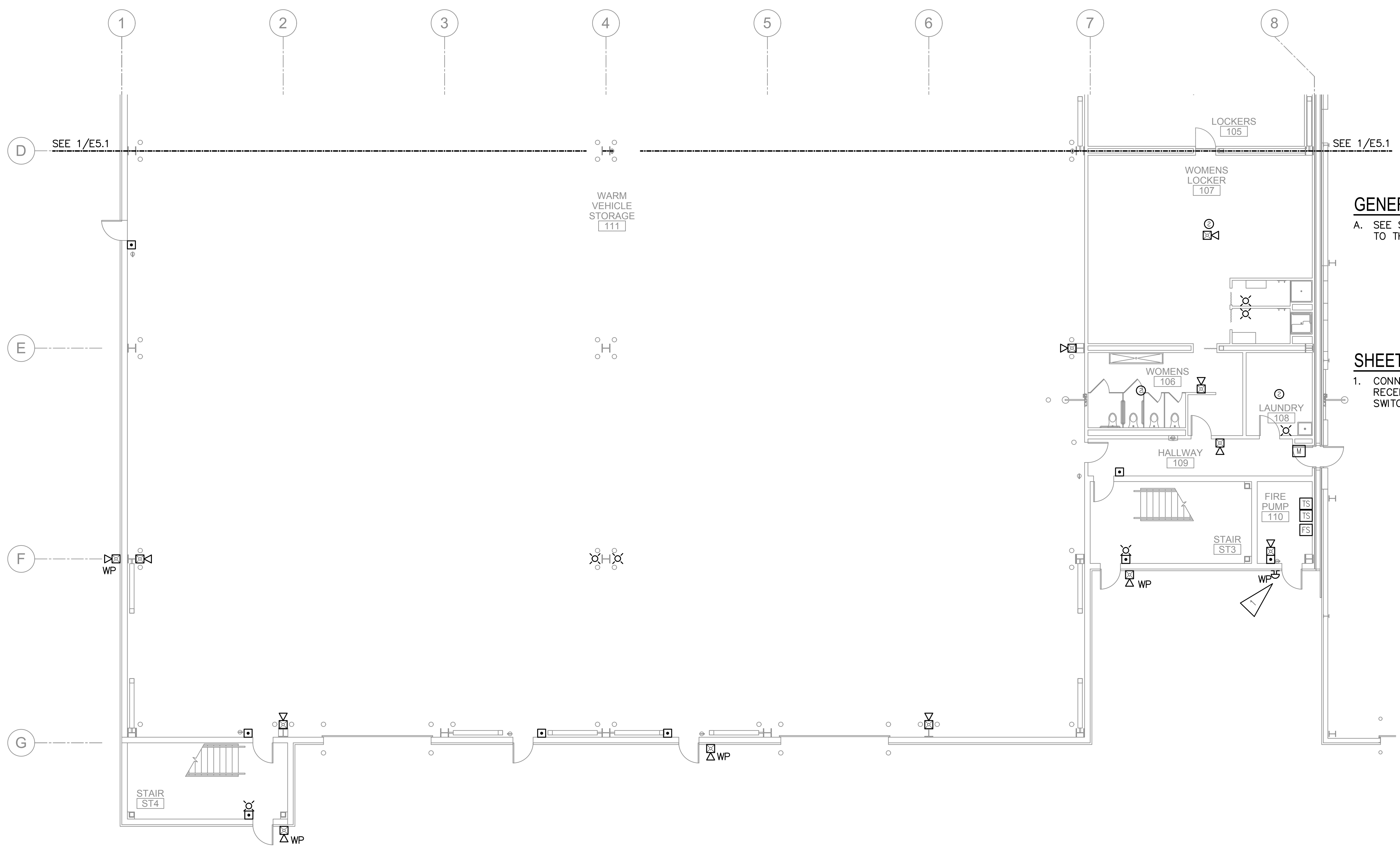
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 DWG E5.1
 HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
 VERT SCALE: N/A
 PROJ. ID.: WW.H7775
 SHEET 270 of 288

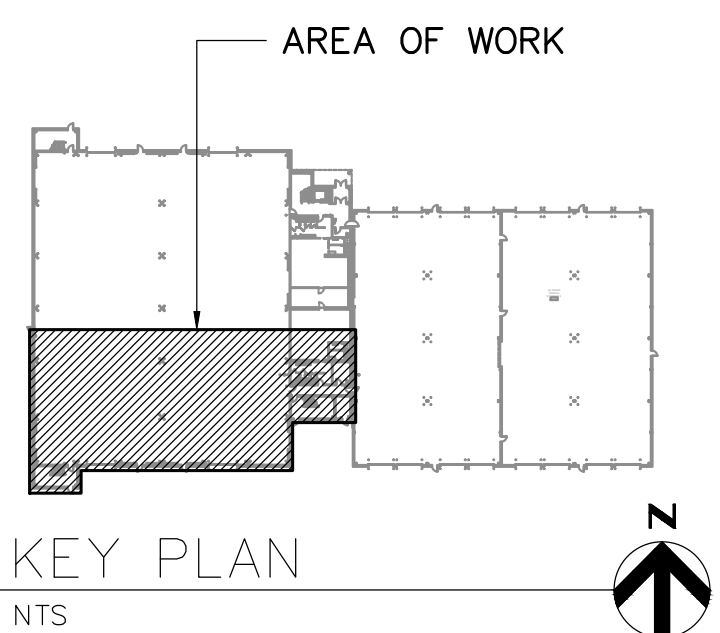


GENERAL NOTES

A. SEE SHEET E5.1 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

SHEET NOTES

1. CONNECT TO LINE VOLTAGE VIA NEARBY RECEPTACLE CIRCUIT AND CONNECT TO FLOW SWITCH IN FIRE PUMP 110 VIA CONTROL WIRING.



1 FIRST FLOOR FIRE ALARM PLAN – SOUTH AREA
E5.2 1/8" = 1'-0"

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.	
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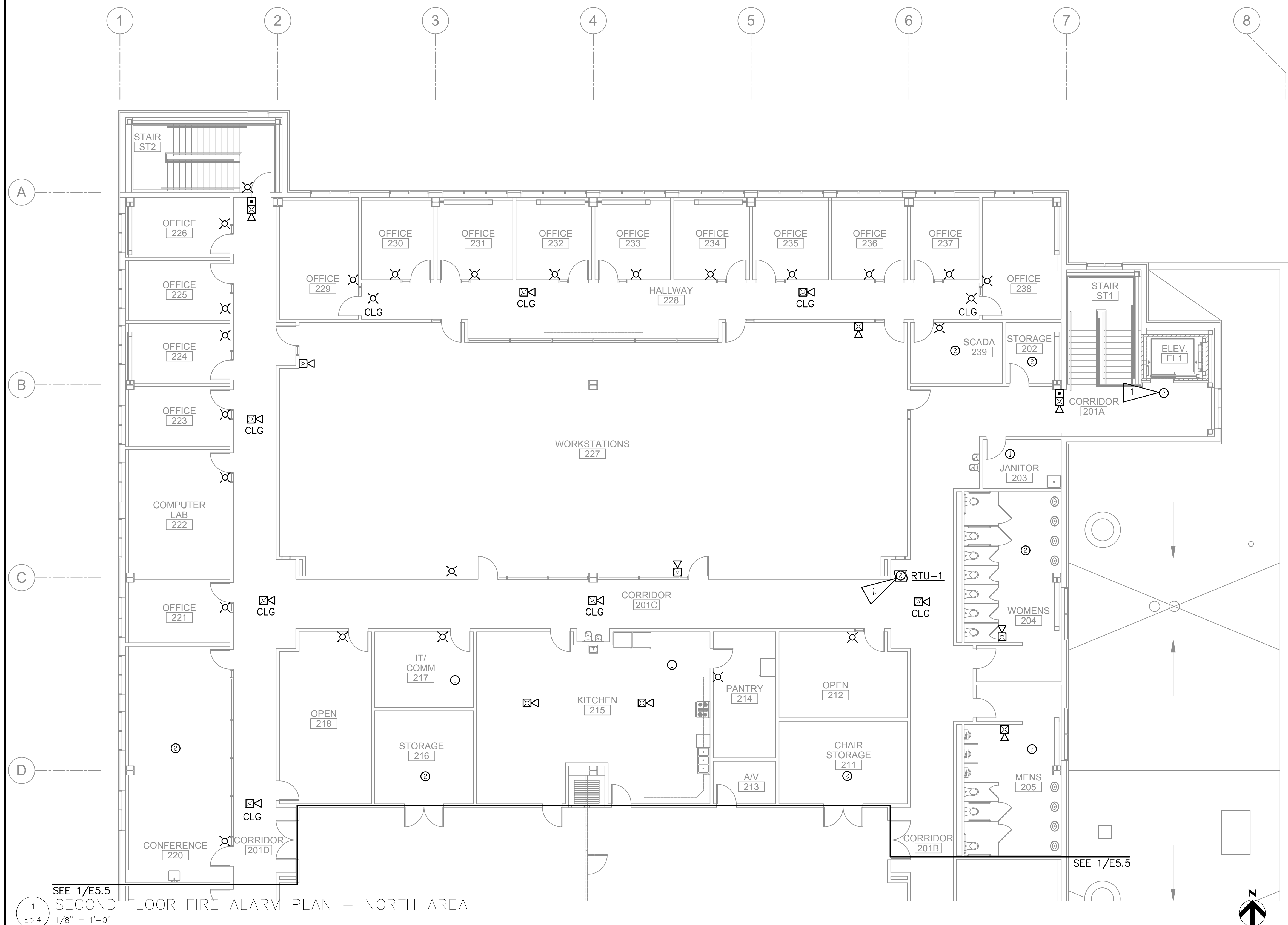
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 DWG E5.2
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 PROJ. ID.: WW.H7775
 SHEET 271 of 288

GENERAL NOTES

A. SEE SHEET E5.1 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

SHEET NOTES

1. SMOKE DETECTOR FOR ELEVATOR RECALL.
2. INSTALL DUCT SMOKE DETECTOR IN THE MAIN RETURN AIR DUCT OF THE ROOF TOP UNIT INDICATED. INSTALL REMOTE TEST BUTTON IN ACCESSIBLE LOCATION.



SEE 1/E5.5
1 SECOND FLOOR FIRE ALARM PLAN – NORTH AREA

E5.4 1/8" = 1'-0"

REV	DATE	DESCRIPTION	BY

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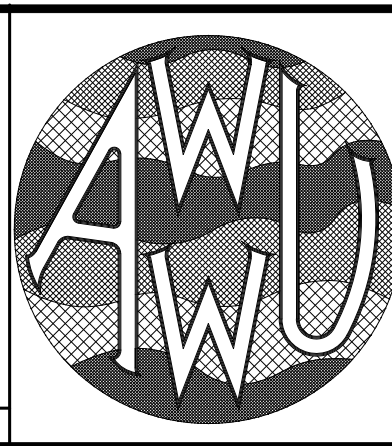
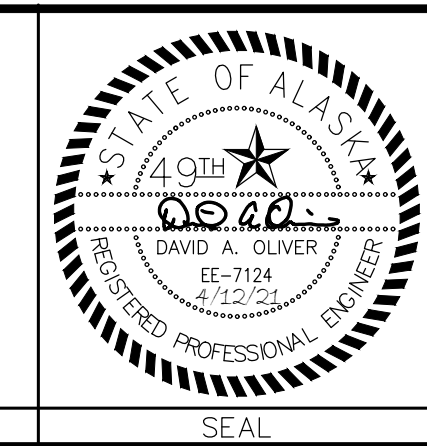
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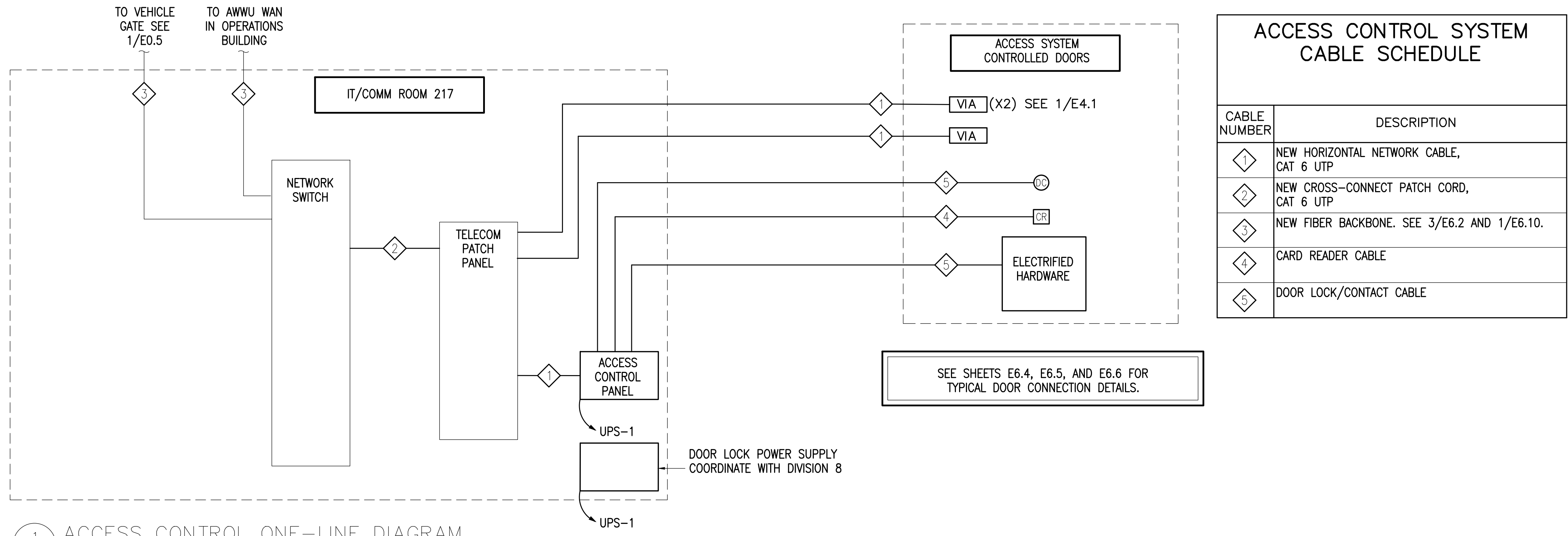
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SECOND FLOOR FIRE ALARM PLAN - NORTH AREA

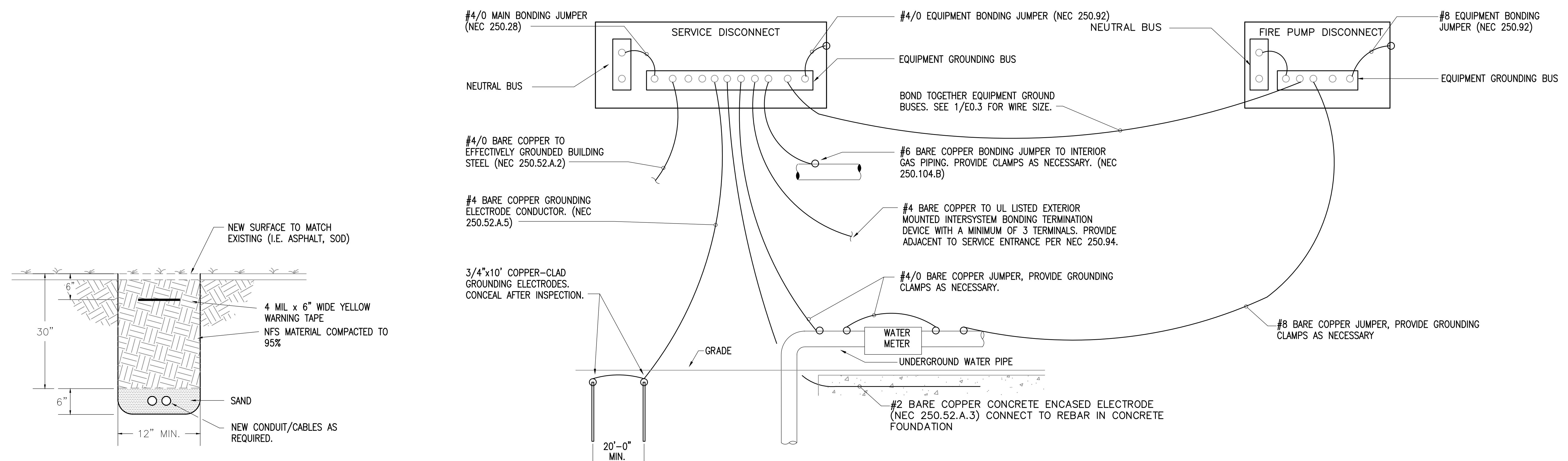
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DWG E5.4

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1 ACCESS CONTROL ONE-LINE DIAGRAM
E6.1 NOT TO SCALE



2 TRENCHING DETAIL
E6.1 NOT TO SCALE

3 SERVICE GROUNDING DETAIL
E6.1 NOT TO SCALE

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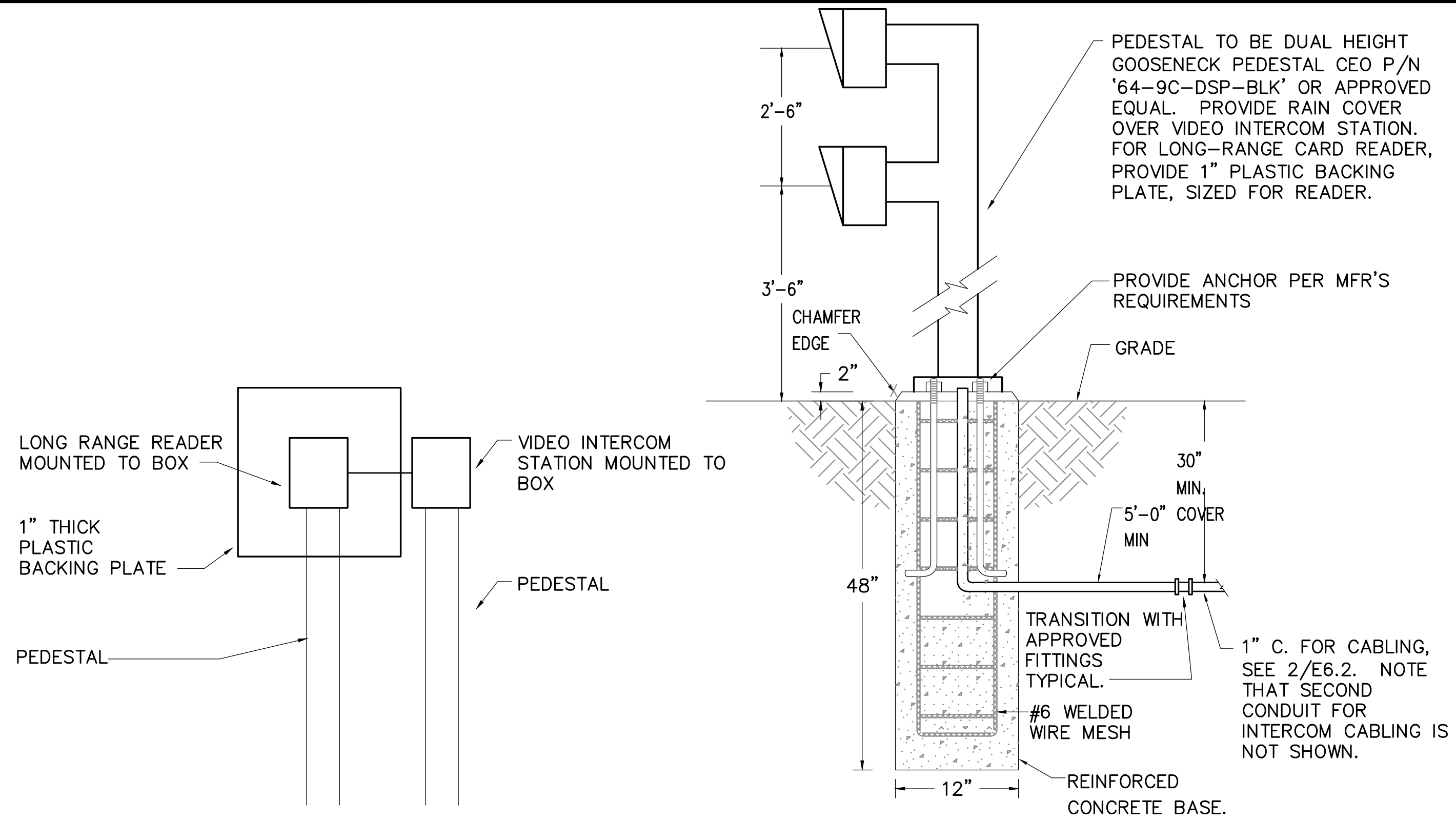
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ACCESS CONTROL ONE-LINE DIAGRAM AND SERVICE GROUNDING DETAIL

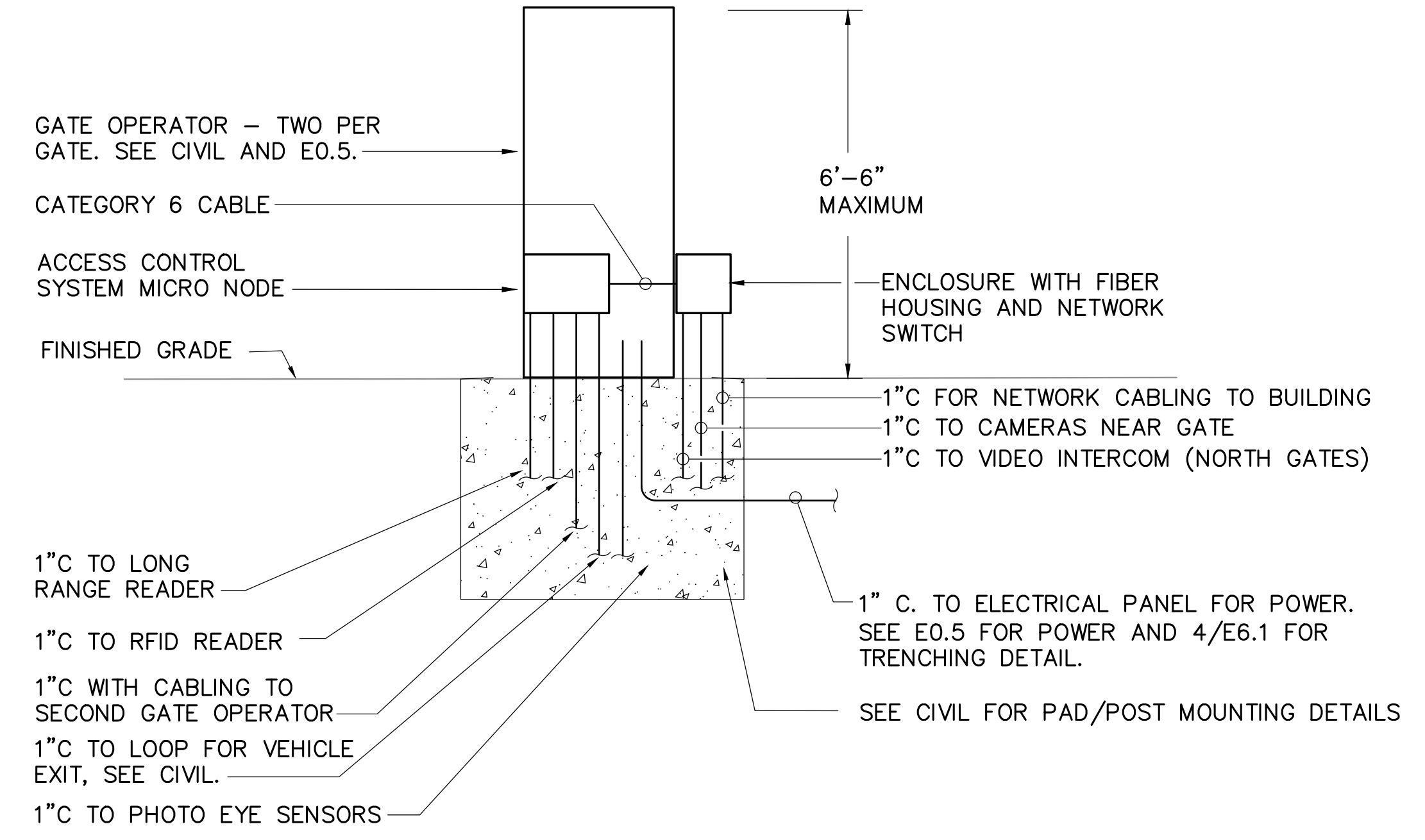
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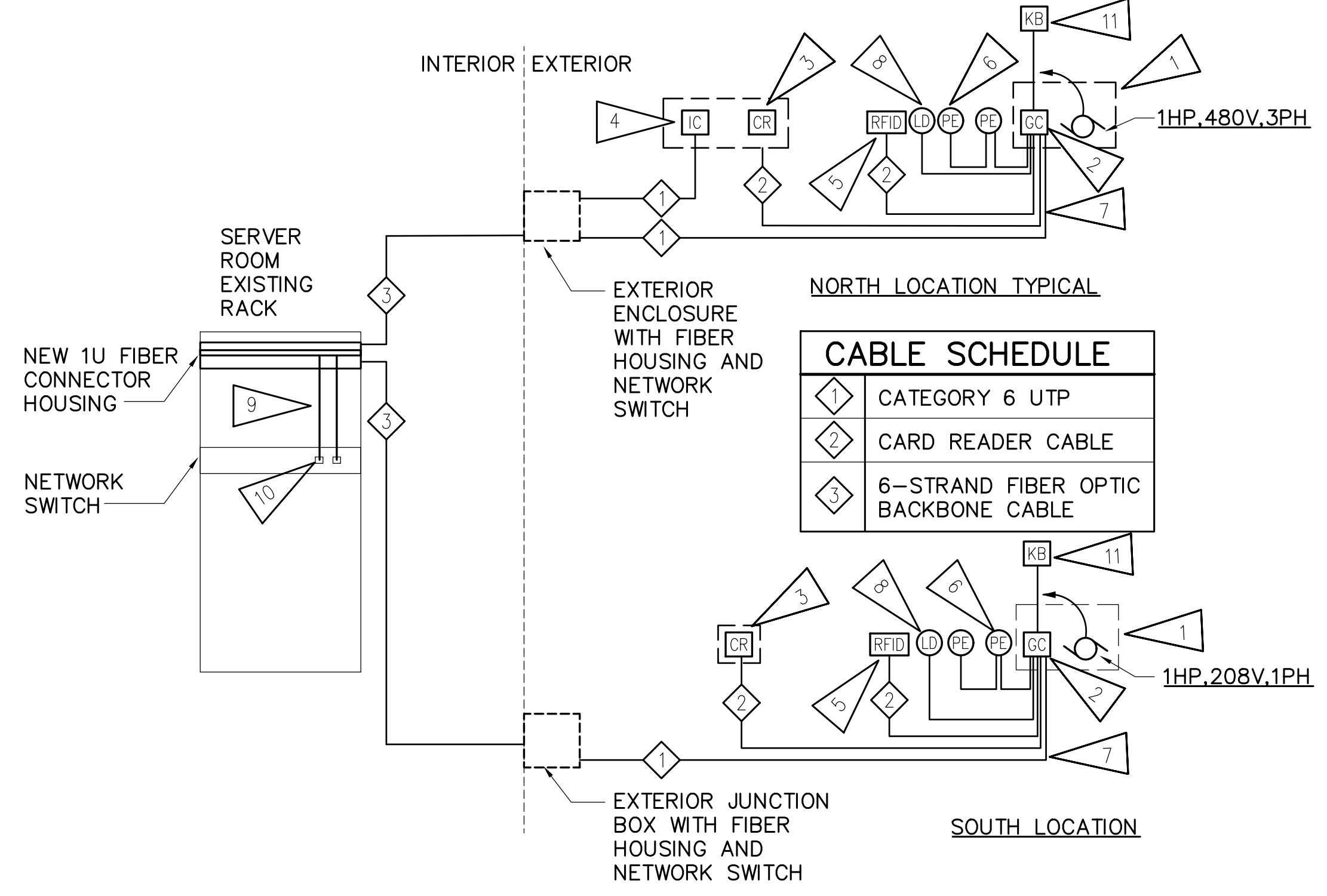
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1 TYPICAL VEHICLE CARD READER PEDESTAL DETAILS
E6.2 NOT TO SCALE



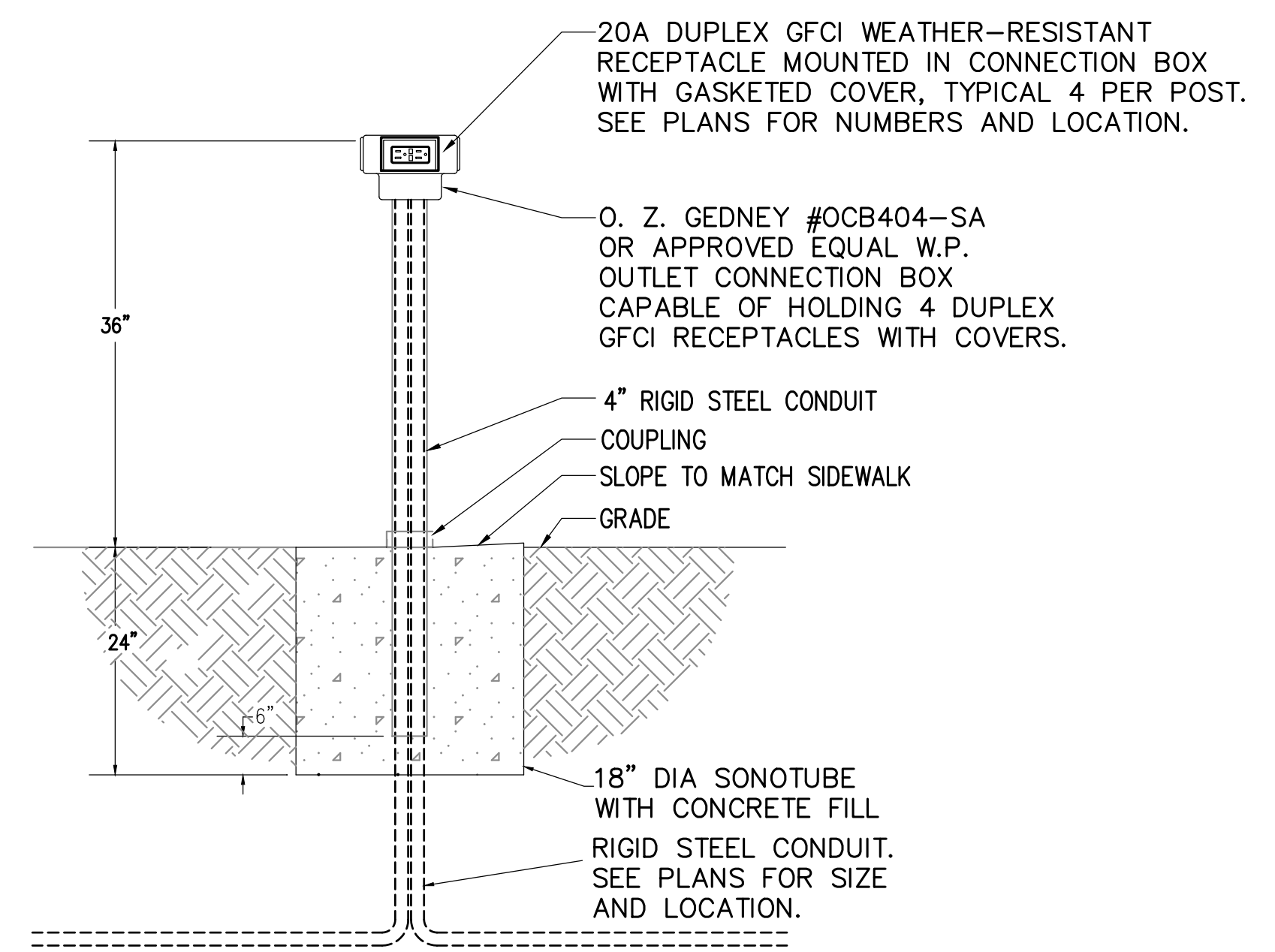
2 TYPICAL GATE OPERATOR ELEVATION
E6.2 NOT TO SCALE



3 VEHICLE GATE ONE-LINE DIAGRAMS
E6.2 NOT TO SCALE

DETAIL NOTES:

- GATE MOTOR. COORDINATE WITH GATE SUPPLIER FOR EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN. SEE 1/E0.5 FOR CIRCUIT INFORMATION. CONNECT TO DISCONNECT SWITCH PROVIDED WITH CONTROLLER.
- GATE CONTROLLER. COORDINATE LOCATION WITH CIVIL.
- LONG-RANGE CARD READER, ON PEDESTAL. PROVIDE CONNECTION TO ACCESS CONTROL SYSTEM.
- IP-BASED VIDEO INTERCOM STATION. PROVIDE NETWORK/PoE CONNECTION TO STORAGE 162A IN THE OPERATIONS AND MAINTENANCE BUILDING.
- RFID READER FOR VEHICLE STICKERS. PROVIDE CONNECTION TO ACCESS CONTROL SYSTEM. MOUNT READER ON FENCE POST FOR COVERAGE OF APPROACHING VEHICLES.
- PHOTO-EYE SENSOR, MOUNTED TO FENCE POST/GATE AND CONNECTED TO GATE CONTROLLER. SENSORS WILL BE SPECIFIED WITH GATE CONTROLLER. CONNECT USING MANUFACTURER'S RECOMMENDED CABLING.
- NETWORK CABLING FROM ACCESS CONTROL SYSTEM MICRO NODE TO NEW NETWORK SWITCH IN ENCLOSURE.
- IN-GROUND LOOP DETECTOR. CONNECT USING MANUFACTURER'S RECOMMENDED CABLING.
- PROVIDE NEW FIBER OPTIC PATCH CORDS FROM NEW HOUSING TO NETWORK SWITCH.
- PROVIDE NEW FIBER OPTIC TRANSCEIVERS FOR SFP PORTS IN NETWORK SWITCH.
- PROVIDE AND INSTALL KNOX BOX ON FENCE NEAR GATE IN LOCATION AS DIRECTED BY THE MUNICIPALITY OF ANCHORAGE FIRE DEPARTMENT. INSTALL A PUSHBUTTON IN THE KNOX BOX TO OPEN THE GATE.



4 HEAD-BOLT HEATER DIAGRAM
E6.2 NOT TO SCALE

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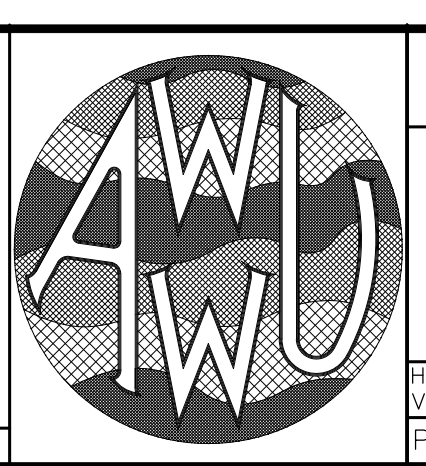
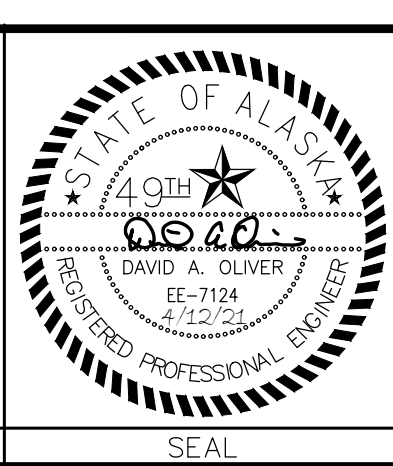
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KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

ACCESS CONTROL GATE AND HEADBOLT HEATER DETAILS

DATE: APRIL 2021 GRID: SW 2431

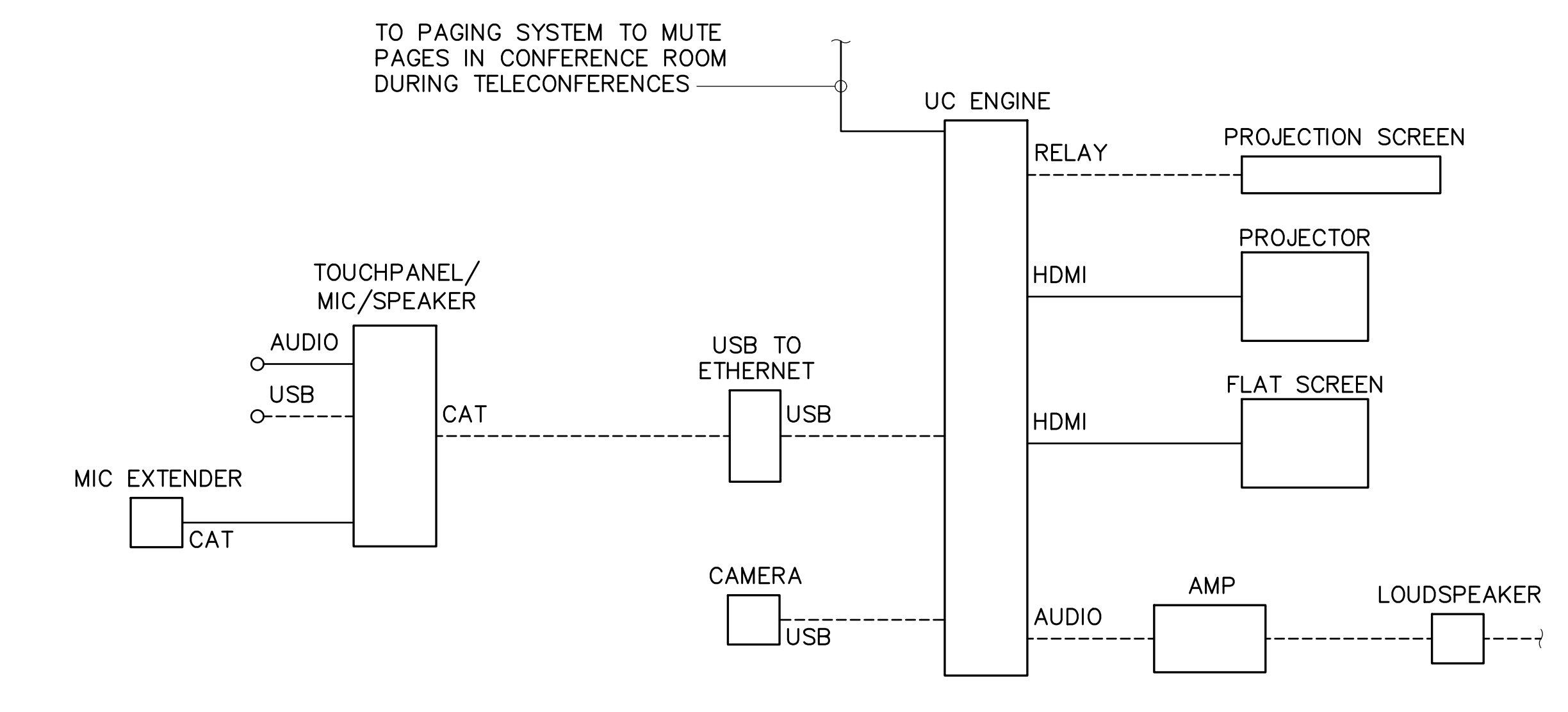
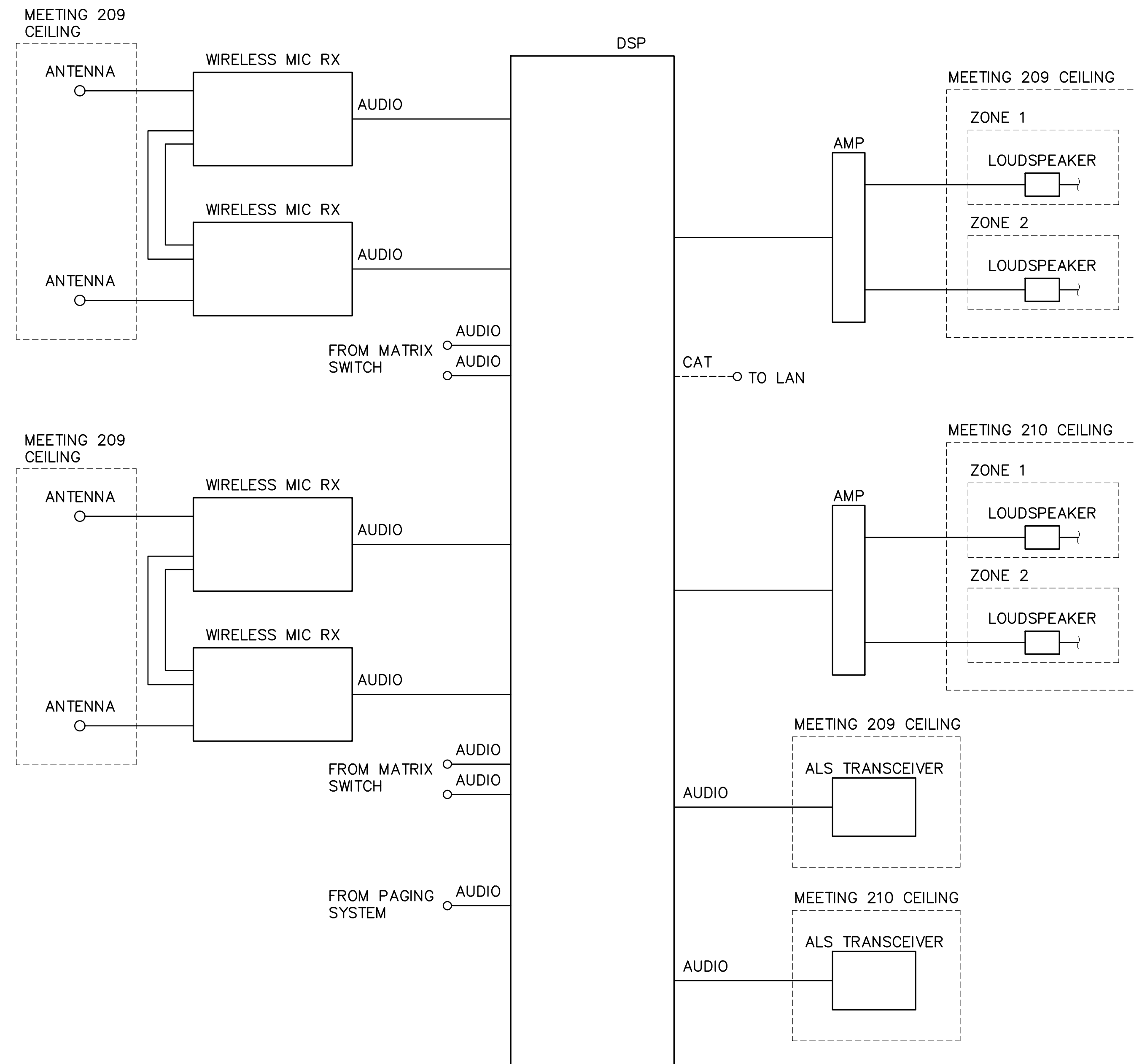
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DWG E6.2

SHEET 277 of 288

GENERAL NOTES:

A. FUNCTIONAL DIAGRAM BASED ON CRESTRON EQUIPMENT. SEE SPECIFICATIONS.



1 MEETING ROOM AUDIO FUNCTIONAL DIAGRAM
E6.6 NOT TO SCALE

2 CONFERENCE ROOM TELECONFERENCE SYSTEM FUNCTIONAL DIAGRAM
E6.6 NOT TO SCALE

REV	DATE	DESCRIPTION	BY

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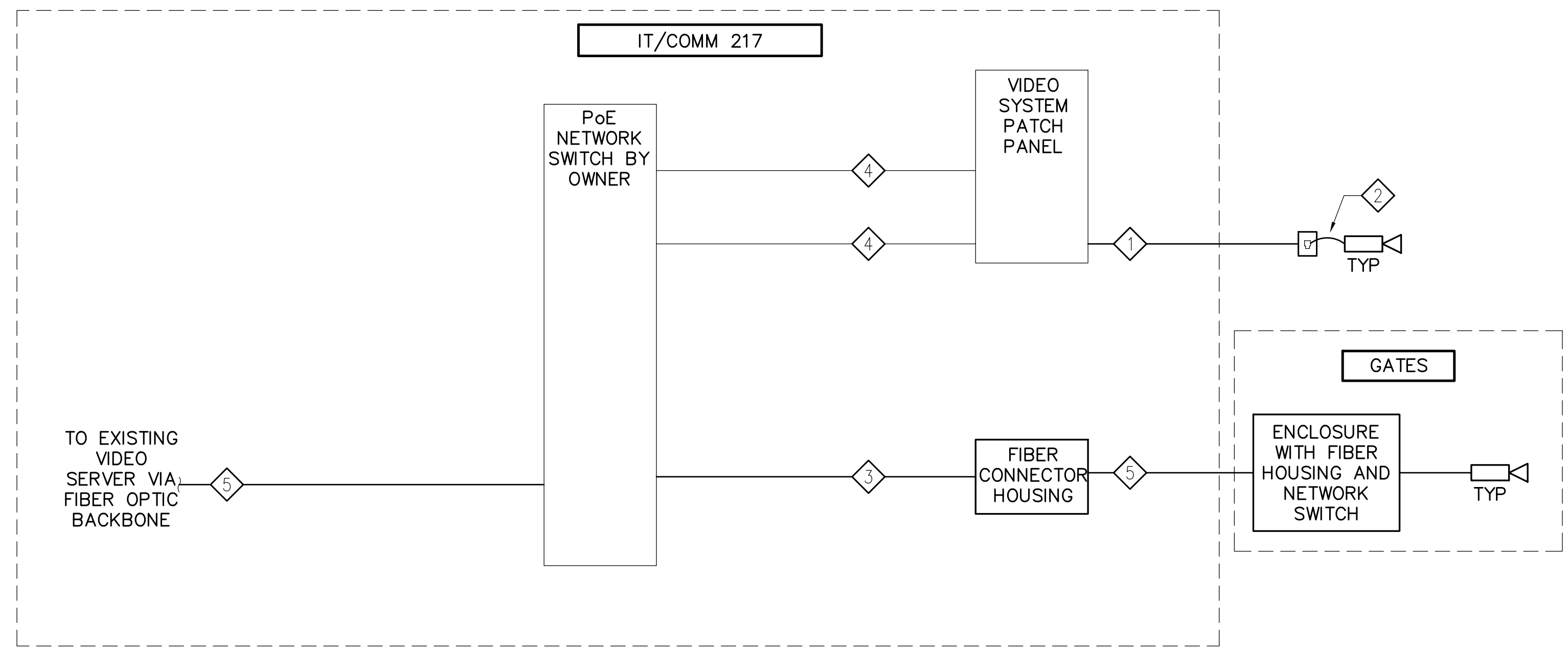
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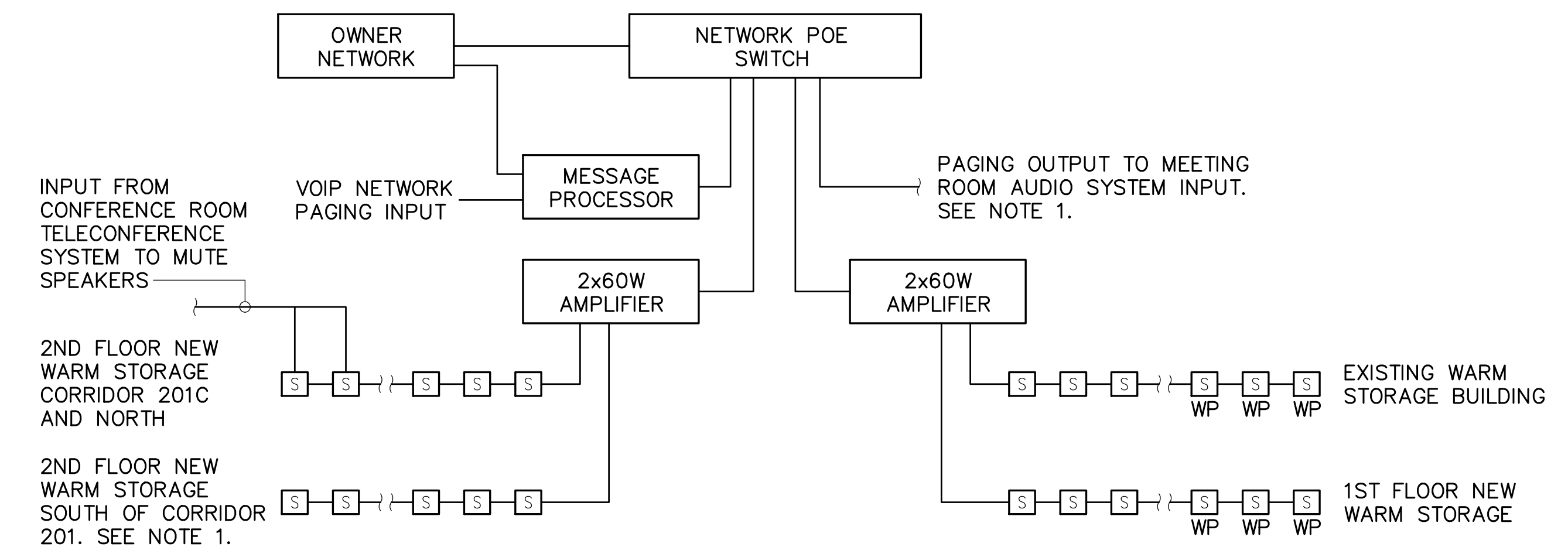
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY
KING STREET WARM VEHICLE STORAGE BUILDING PROJECT
MEETING AND CONFERENCE ROOMS
AV SYSTEM ONE-LINE DIAGRAMS
HORZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775
DWG E6.6
SHEET 281 of 288



IP VIDEO SYSTEM CABLE SCHEDULE (ALL CABLES SPECIFIED IN SECTION 28 23 00)	
CABLE NUMBER	DESCRIPTION
1	NEW CAMERA PoE CABLE, CAT 6 UTP
2	NEW CAMERA FIELD PATCH CORD, CAT 6 UTP, LENGTH AS REQUIRED.
3	FIBER PATCH CORD
4	CROSS-CONNECT PATCH CORD, CAT 6 UTP
5	GIGABIT FIBER BACKBONE.

1 IP VIDEO SURVEILLANCE SYSTEM ONE-LINE DIAGRAM
E6.8 NOT TO SCALE

VIDEO SYSTEM CAMERA SCHEDULE					
CAMERA DESIGNATION	CAMERA LOCATION (SEE PLANS)	INTENDED COVERAGE AREA	CAMERA TYPE SEE SPECIFICATIONS		MOUNTING TYPE
			RESOLUTION	FOCAL LENGTH	
KW-1	EXTERIOR - ENTRY 101	APPROACH TO ENTRY	2MP VARI-FOCAL	A	SOFFIT
KW-2	NORTHEAST CORNER	NORTH AND EAST SIDES	MULTI-SENSOR	B	CORNER BRACKET
KW-3	EAST SIDE - STAIR ST2	NORTH SIDE	4MP VARI-FOCAL	C	WALL BRACKET
KW-4	NORTHWEST CORNER - STAIR ST2	NORTH AND WEST SIDES	MULTI-SENSOR	B	CORNER BRACKET
KW-5	SOUTHWEST CORNER - STAIR ST4	WEST AND SOUTH SIDES	MULTI-SENSOR	B	CORNER BRACKET
KW-6	EAST SIDE - STAIR ST4	SOUTH SIDE	4MP VARI-FOCAL	C	WALL BRACKET
KW-7	SOUTHEAST CORNER - ROOM 111	SOUTH SIDE OF BUILDING	MULTI-SENSOR	B	CORNER BRACKET
KW-8	EXTERIOR - FIRE PUMP 110	AREA NEAR FIRE PUMP ROOM	4MP VARI-FOCAL	C	WALL BRACKET
KW-9	EAST SIDE, HIGH - STAIR ST2	PAN-TILT-ZOOM COVERAGE OF NORTH SIDE	PTZ	P	PARAPET OR CORNER BRACKET
KW-10	EAST SIDE, HIGH - STAIR ST4	PAN-TILT-ZOOM COVERAGE OF NORTH SIDE	PTZ	P	PARAPET OR CORNER BRACKET
KS-1	NORTHWEST GATE	GATE APPROACH	4MP VARI-FOCAL	C	POLE
KS-2	NORTHWEST GATE	GATE APPROACH	4MP VARI-FOCAL	C	POLE
KS-3	NORTHEAST GATE	GATE APPROACH	4MP VARI-FOCAL	C	POLE
KS-4	NORTHEAST GATE	GATE APPROACH	4MP VARI-FOCAL	C	POLE
KS-5	SOUTH GATE	GATE APPROACH	4MP VARI-FOCAL	C	POLE
KS-6	SOUTH GATE	GATE APPROACH	4MP VARI-FOCAL	C	POLE



PAGING SYSTEM SHEET NOTES

- NO PAGING SYSTEM SPEAKERS IN MEETING ROOM 209 AND 210. PAGING IN THESE ROOMS SHALL BE VIA THE MEETING ROOM PRESENTATION SYSTEM. SEE 1/E6.12.

2 PAGING SYSTEM ONE-LINE DIAGRAM
E6.8 NOT TO SCALE

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

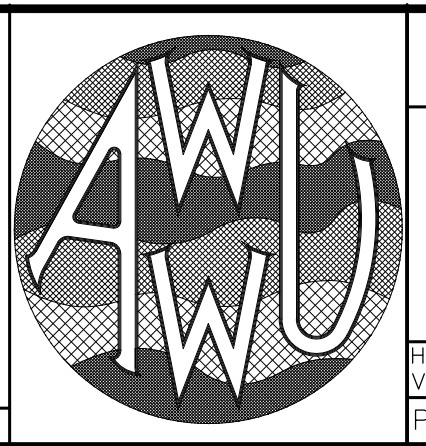
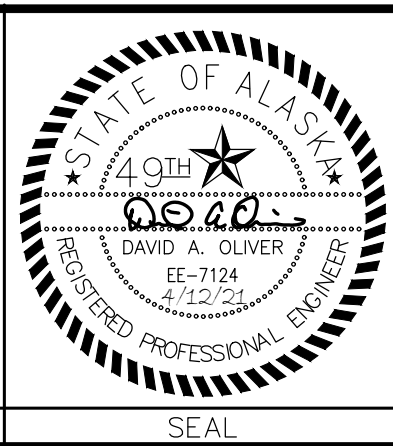
1. DATA PROVIDED BY: _____
This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: _____
DATE: _____ TITLE: _____
BY: _____

2. DATA TRANSFERRED BY: _____
COMPANY: _____
DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
DATA TRANSFER CHECKED BY: _____
DATE: _____ TITLE: _____
BY: _____

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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

KING STREET WARM VEHICLE STORAGE BUILDING PROJECT

VIDEO SURVEILLANCE AND PAGING SYSTEM ONE-LINE DIAGRAMS

HORIZ SCALE: N/A DATE: APRIL 2021 GRID: SW 2431
VERT SCALE: N/A
PROJ. ID.: WW.H7775

DWG
E6.8

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MAIN DISTRIBUTION PANEL 'MDP'																		
MFR/MODEL: SQUARE 'D' TYPE HLINE				VOLTS: 277/480V,3PH,4W				ENCLOSURE: NEMA 1				1200 A						
MTG SPACE: AS REQUIRED				VOLT-AMPS				MTG: SURFACE										
NOTE	CIRC	POLE	AMPS	SERVICE			TYPE	A	B	C	TYPE	SERVICE			AMPS	POLE	CIRC	NOTE
a	1	3	-	PANEL 'H1A'			FEDR	16484				TVSS BREAKER			-	-	2	a
a	3	3	-	PANEL 'H2B'			FEDR		17760			TVSS PANEL			-	-	4	b
a	5	3	-	PANEL 'H2B'			FEDR			15490		TVSS PANEL			-	-	6	b
a	7	3	-	PANEL 'H2B'			FEDR	7394				TVSS PANEL			-	-	8	
a	9	3	-	PANEL 'H2B'			FEDR		7394			TVSS PANEL			-	-	10	
a	11	3	-	PANEL 'L2B' VIA 'X2'			FEDR			6670		TVSS PANEL			-	-	12	
a	13	3	-	PANEL 'L2B' VIA 'X2'			FEDR	9769				TVSS PANEL			-	-	14	
a	15	3	-	PANEL 'L2B' VIA 'X2'			FEDR		7810			TVSS PANEL			-	-	16	
a	17	3	-	PANEL 'LDP' VIA 'X1A'			FEDR			9037		TVSS PANEL			-	-	18	a
a	19	3	-	PANEL 'LDP' VIA 'X1A'			FEDR	50433	10803			PANEL 'H2A'			-	-	20	a
a	21	3	-	PANEL 'LDP' VIA 'X1A'			FEDR		51400	11101		PANEL 'H2A'			-	-	22	a
a	23	3	-	PANEL 'LDP' VIA 'X1A'			FEDR			51045	12362	EXISTING PANEL 'A'			-	-	24	a
c	25	3	-	ELEVATOR			MOTR	7483	18958			EXISTING SEPTAGE			-	-	26	a
c	27	3	-	ELEVATOR			MOTR		7483	18958		EXISTING SEPTAGE			-	-	28	a
c	29	3	-	ELEVATOR			MOTR			7483	18958	EXISTING SEPTAGE			-	-	30	a
31	3	100	-	SPARE			AAA		10000			EXISTING SEPTAGE			-	-	32	a
33	3	100	-	SPARE			AAA			10000		EXISTING SEPTAGE			-	-	34	a
35	3	100	-	SPARE			AAA			10000		EXISTING SEPTAGE			-	-	36	a
37	3	100	-	SPARE			AAA		25870			EXISTING SEPTAGE			-	-	38	a
39	3	100	-	SPARE			AAA			25870		EXISTING SEPTAGE			-	-	40	a
41	3	100	-	SPARE			AAA			25870		EXISTING SEPTAGE			-	-	42	a
43	1	-	-	SPACE			AAA		37842			EXISTING SEPTAGE			-	-	44	a
45	3	-	-	SPACE			AAA			37842		EXISTING SEPTAGE			-	-	46	a
47	3	-	-	SPACE			AAA			37842		EXISTING SEPTAGE			-	-	48	a
49	3	-	-	SPACE			AAA					EXISTING SEPTAGE			-	-	50	a
51	3	-	-	SPACE			AAA					EXISTING SEPTAGE			-	-	52	a
53	3	-	-	SPACE			AAA					EXISTING SEPTAGE			-	-	54	a
55	3	-	-	SPACE			AAA					EXISTING SEPTAGE			-	-	56	a
57	3	-	-	SPACE			AAA					EXISTING SEPTAGE			-	-	58	a
59	3	-	-	SPACE			AAA					EXISTING SEPTAGE			-	-	60	a
61	3	-	-	SPACE			AAA					EXISTING SEPTAGE			-	-	62	a
63	3	-	-	SPACE			AAA					EXISTING SEPTAGE			-	-	64	a
65	3	-	-	SPACE			AAA					EXISTING SEPTAGE			-	-	66	a
TOTAL V-A								195037	195618	194757				585,412	VA			
TOTAL AMPS								704	706	703				704	A			
AVAILABLE FAULT CURRENT :				12.326 A			AIC RATING: 18,000 A											
CONNECTED LOAD IN KVA (THIS PANEL)				0.00	0.00	213.59	28.38	30.00	0.00	0.00	0.00	TOTAL			243.6	KVA	293	A
CONNECTED LOAD IN KVA (BRANCH PANELS)				29.14	82.33	117.83	2.29	72.05	28.72	11.76	0.00	TOTAL			341.8	KVA	414	A
TOTAL CONNECTED LOAD IN KVA:				29.14	82.33	331.41	28.38	102.05	28.72	11.76	0.00	TOTAL			585.4	KVA	704	A
DEMAND LOAD IN KVA:				36.42	46.17	331.41	28.38	102.05	28.72	14.70	0.00	TOTAL			587.9	KVA	707	A

PANEL 'H1A'																		
MFR/MODEL: SQUARE 'D' TYPE NF				VOLTS: 277/480V,3PH,4W				ENCLOSURE: NEMA 1				150 A						
MTG SPACE: AS REQUIRED				VOLT-AMPS				MTG: SURFACE										
NOTE	CIRC	POLE	AMPS	SERVICE			TYPE	A	B	C	TYPE	SERVICE			AMPS	POLE	CIRC	NOTE
1	1	20	-	LTG - WARM STORAGE-NORTH			LTG	3264	1871			MOTR NORTH WARM STO CLG FANS			20	3	2	
3	1	20	-	LTG - WARM STORAGE-SOUTH			LTG		3264	1871		MOTR			20	3	4	
5	1	20	-	LTG - LOCKER/COMMON,MEZZ,STR			LTG			2430	1871	MOTR			20	3	6	
7	1	20	-	LTG - EXT BLDG MTD			LTG	908	1871			MOTR SOUTH WARM STO CLG FANS			20	3	8	
9	1	20	-	LTG - SITE LIGHTING NORTH			LTG		2184	1871		MOTR			20	3	10	
11	1	20	-	LTG - MEZZANINE,MECH			LTG			748	1871	MOTR			20	3	12	
13	1	20	-	SPARE			AAA				3048	MOTR CP-1A			20	3	14	
15	1	20	-	SPARE			AAA				3048	MOTR			20	3	16	
17	1	20	-	SPARE			AAA				3048	MOTR			20	3	18	
19	1	20	-	SPARE			AAA				3048	MOTR CP-1B			20	3	20	
21	1	20	-	SPARE			AAA				3048	MOTR			20	3	22	
23	1	20	-	SPARE			AAA				3048	MOTR			20	3	24	
25	1	-	-	SPACE			AAA			2474	MOTR VEHICLE GATES 12 & 13			20	3	26		
27	1	-	-	SPACE			AAA			2474	MOTR			20	3	28		
29	1	-	-	SPACE			AAA			2474	MOTR			20	3	30		
31	1	-	-	SPACE			AAA					SPACE			-	1	32	
33	1	-	-	SPACE			AAA					SPACE			-	1	34	
35	1	-	-	SPACE			AAA					SPACE			-	1	36	
37	1	-	-	SPACE			AAA					SPACE			-	1	38	
39	1	-	-	SPACE			AAA					SPACE			-	1	40	
41	1	-	-	SPACE			AAA					SPACE			-	1	42	
TOTAL V-A								16484	17760	15490				49,734	VA			
TOTAL AMPS								60	64	56				60	A			
AVAILABLE FAULT CURRENT :				6.090 A			AIC RATING: 18,000 A											
CONNECTED LOAD IN KVA (THIS PANEL)				12.80	0.00	36.94	2.29	0.00	0.00	0.00	0.00	TOTAL			49.7	KVA	60	A
DEMAND LOAD IN KVA:				16.00	0.00	36.94	2.29	0.00	0.00	0.00	0.00	TOTAL			55.2	KVA	66	A

PANEL 'H2A'																		
MFR/MODEL: SQUARE 'D' TYPE NF				VOLTS: 277/480V,3PH,4W				ENCLOSURE: NEMA 1				150 A						
MTG SPACE: AS REQUIRED				VOLT-AMPS				MTG: SURFACE										
NOTE	CIRC	POLE	AMPS	SERVICE			TYPE	A	B	C	TYPE	SERVICE			AMPS	POLE	CIRC	NOTE
1	1	20	-	LTG-2ND FLR HALLWAY,ST2,4			LTG	2549	2120			MOTR EF-1,EF-2			15	3	2	
3	1	20	-	LTG-2ND FLR PERIMETER OFFICES-NORTH			LTG		2885	2120		MOTR			15	3	4	
5	1	20	-	LTG-2ND FLR INTERIOR OFFICE-NORTH			LTG			4146	2120	MOTR			15	3	6	
7	1	20	-	LTG-ELEV SILL			LTG	38	3048			MOTR MAU-1			20	3	8	
9	1	20	-	SPARE			AAA			3048	MOTR			20	3	10		
11	1	20	-	SPARE			AAA				3048	MOTR			20	3	12	
13	1	20	-	SPARE			AAA			3048	MOTR			20	3	14		
15	1	20	-	SPARE			AAA			3048	MOTR			20	3	16		
17	1	20	-	SPARE			AAA			3048	MOTR			20	3	18		
19	1	-	-	SPACE			AAA				SPACE			-	1	20		
21	1	-	-	SPACE			AAA				SPACE			-	1	22		
23	1	-	-	SPACE			AAA				SPACE			-	1	24		
25	1	-	-	SPACE			AAA				SPACE			-	1	26		
27	1	-	-	SPACE			AAA				SPACE			-	1	28		
29	1	-	-	SPACE			AAA				SPACE			-	1	30		
TOTAL V-A								10803	11101	12362				34,266	VA			
TOTAL AMPS								39	40	45				41	A			
AVAILABLE FAULT CURRENT :				6.833 A			AIC RATING: 18,000 A											
CONNECTED LOAD IN KVA (THIS PANEL)				9.62	0.00	24.65	2.29	0.00	0.00	0.00	0.00	TOTAL			34.3	KVA	41	A
DEMAND LOAD IN KVA:				12.02	0.00	24.65	2.29	0.00	0.00	0.00	0.00	TOTAL			39.0	KVA	47	A

PANEL 'LDP'																		
MFR/MODEL: SQUARE 'D' TYPE HLINE				VOLTS: 120/208V,3PH,4W				ENCLOSURE: NEMA 1				800 A						
MTG SPACE: AS REQUIRED				VOLT-AMPS				MTG: SURFACE										
NOTE	CIRC	POLE	AMPS	SERVICE			TYPE	A	B	C	TYPE	SERVICE			AMPS	POLE	CIRC	NOTE
b	3	-	-	TVSS			FEDR	14200				PANEL 'L2A'			-	-	3	a
b	3	-	-	TVSS			FEDR		12420			PANEL 'L2A'			-	-	3	a
b	3	-	-	TVSS PANEL			FEDR			13680		PANEL 'UPS'			-	-	3	a
				TVSS PANEL			FEDR	3420				PANEL 'UPS'			-	-	3	a
				TVSS PANEL			FEDR		1320			PANEL 'UPS'			-	-	3	a
				TVSS PANEL			FEDR	17965			2560	PANEL 'L1A'			-	-	3	a
				TVSS PANEL			FEDR		20762			PANEL 'L1A'			-	-	3	a
				TVSS PANEL			FEDR			18663	PANEL 'L1A'			-	-	3	a	
3	100	-	-	SPARE			FEDR	14848				PANEL 'K'			-	-	3	a
3	100	-	-	SPARE			FEDR		16898			PANEL 'K'			-	-	3	a
3	100	-	-	SPARE			FEDR			16142	PANEL 'K'			-	-	3	a	
3	-	-	-	SPACE			AAA				SPACE			-	-	3		
3	-	-	-	SPACE			AAA				SPACE			-	-	3		
3	-	-	-	SPACE			AAA				SPACE			-	-	3		
3	-	-	-	SPACE			AAA				SPACE			-	-	3		
3	-	-	-	SPACE			AAA				SPACE			-	-	3		
3	-	-	-	SPACE			AAA				SPACE			-	-	3		
3	-	-	-	SPACE			AAA				SPACE			-	-	3		
TOTAL V-A								50433	51400	51045				152,878	VA			
TOTAL AMPS								420	428	425				424	A			
AVAILABLE FAULT CURRENT :				11.885 A			AIC RATING: 22,000 A											
CONNECTED LOAD IN KVA (BRANCH PANELS)				0.50	62.55	37.53	1.01	13.58	28.72	10.00	0.00	TOTAL			152.9	KVA	427	A
TOTAL CONNECTED LOAD IN KVA:				0.50	62.55	37.53	1.01	13.58	28.72	10.00	0.00	TOTAL			152.9	KVA	424	A
DEMAND LOAD IN KVA:				0.63	36.28	37.53												

