

City of Valdez

212 Chenega Ave.
Valdez, AK 99686

Meeting Agenda

Ports and Harbor Commission

Monday, August 29, 2016

7:00 PM

Council Chambers

REGULAR AGENDA - 7:00 PM

I. CALL TO ORDER

II. ROLL CALL

III. APPROVAL OF MINUTES

IV. PUBLIC APPEARANCES

V. PUBLIC BUSINESS FROM THE FLOOR

VI. PUBLIC HEARINGS

VII. UNFINISHED BUSINESS

VIII. NEW BUSINESS

1. [Discussion Item: Sublease Rates for the Valdez Pioneer Field Airport Terminal Building](#)

Attachments: [Resolution 10-60 Airport Rates.pdf](#)
 [Airport Rental Rate Comparison.pdf](#)
 [Airport Rental Uses.pdf](#)

2. [Discussion Item: New Boat Harbor Uplands](#)

Attachments: [01-Valdez NHD Upland Facilities - Bid Set - Plans FS - Reduced Size.pdf](#)

IX. REPORTS

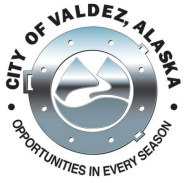
1. [Valdez New Boat Harbor Construction Progress Reports](#)

Attachments: [VNBH1 July 2016 Report.pdf](#)
 [VNBH1 Construction Progress Report 42.pdf](#)
 [VNBH1 Construction Progress Report 43.pdf](#)
 [VNBH1 Construction Progress Report 45.pdf](#)

2. [Port & Harbor Staff Report](#)

X. COMMISSION BUSINESS FROM THE FLOOR

XI. ADJOURNMENT



Legislation Text

File #: 16-0090, **Version:** 1

ITEM TITLE:

Discussion Item: Sublease Rates for the Valdez Pioneer Field Airport Terminal Building

SUBMITTED BY: Jenessa Ables, Port Operations Manager

FISCAL NOTES:

Expenditure Required: N/A

Unencumbered Balance: N/A

Funding Source: N/A

RECOMMENDATION:

Port Staff does not recommend raising rental rates at this time. Port Staff recommends revisiting this subject in 2017. This is listed as a Discussion Item to gain Commission input. Should the Commission want to make a different recommendation than Staff the item can be brought forward as an Action Item on the next meeting agenda.

SUMMARY STATEMENT:

In 2010 the City Council approved Resolution No. 10-60, increasing the Airport rental rate 5% per year for the 3-year period of 2011, 2012, and 2013. During 2014 and early 2015 the building underwent a major construction project with the replacement of the roof. There were some disruptions to tenants with the project, and no rate revisions were recommended during this time. The Commission last reviewed the Airport rental rate in October of 2015 and elected to continue a one year hold on the Airport rental rates and revisit the discussion in 2016.

To help with the discussion regarding rental rates I have included a few worksheets in your packets. The Airport Rate Comparison sheet outlines revenue associated with 2%, 5% and 10% increases. The Airport Building Use Comparison outlines revenue loss associated with City Use and Vacant Space. Note that Joint Pipeline Offices vacated approximately 1,700 sq. ft. at mid-year and City Use has potential to increase in 2016 and 2017.

We have typically tried to keep the rental rate at the Airport above the rental rates in town so the City is not competing against private enterprise. Although it is difficult to get building owners to share the information on their rental rates, the data we have collected shows in-town rates at \$1.60 - \$2.00/sq. ft. with one owner reporting a \$2.00 - \$2.50/sq. ft. range. The building across the street from the

Airport has a rental rate of \$0.75/sq. ft., but is missing key communications and technology infrastructure and would require a sizeable investment for upgrades.

For the following reasons, the Port Staff does not recommend raising rental rates at this time:

- Current Airport rate falls comfortably within local per square foot rental range.
- Ongoing construction, including the ADA Restroom Upgrades Project and Airport Door Replacement Project may create a disruptive environment for tenants in 2016 and 2017.
- Vacancy of an additional 1,700 square feet (JPO space) and projected increase of City Use during 2016-2017.

Port Staff recommends revisiting this discussion item in 2017.

CITY OF VALDEZ, ALASKA

RESOLUTION NO. 10-60

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF VALDEZ, ALASKA, NAMING SUBLEASE RATES AT THE VALDEZ PIONEER FIELD AIRPORT TERMINAL BUILDING AND REPEALING RESOLUTIONS NO. 97-33 AND 98-10 FORMERLY NAMING SUBLEASE RATES

WHEREAS, the City of Valdez does own and operate the airport terminal; and,

WHEREAS, Resolution No. 97-33 adopted a lease rate of \$1.56 per square foot per month at the airport terminal; and,

WHEREAS, Resolution No. 98-10 amended Resolution No. 97-33 adding a daily rental rate of \$110.00 per day for subleases less than 30 days; and,

WHEREAS, Resolution No. 00-18 renamed the Valdez Airport to Valdez Pioneer Field; and,

WHEREAS, the monthly sublease rate has not been adjusted since 1997.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF VALDEZ, ALASKA, that:

Section 1: The sublease rate at the Valdez Pioneer Field airport terminal building shall be increased for the three year period of 2011, 2012, and 2013 in an amount not to exceed five percent (5%) per year.

Section 2: The sublease rate for 2011 shall be \$1.64 per square foot per month. The sublease rate for 2012 shall be \$1.72 per square foot per month. The sublease rate for 2013 shall be \$1.81 per square foot per month.

Section 3: A daily rental rate for an office shall be \$130.00 per day for subleases less than 30 days.

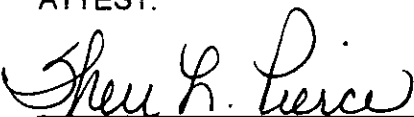
Section 4: This resolution shall become effective upon approval.

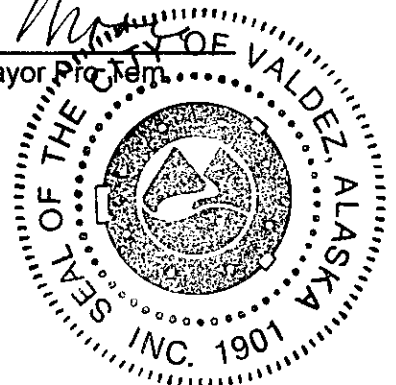
PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF VALDEZ, ALASKA, this 22nd day of November, 2010.

CITY OF VALDEZ, ALASKA


Dorothy M. Moore, Mayor Pro Tem

ATTEST:


Sheri L. Pierce, CMC/AEE, City Clerk

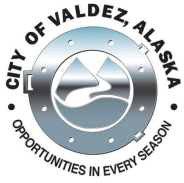


VALDEZ PIONEER FIELD SUBLEASES
Rate Increase Comparisons
August 1, 2016

LESSEE	SQUARE FOOTAGE	2016 MONTHLY RENTAL CHARGE	2016 BUDGETED RENTAL REVENUE	2016 ANTICIPATED RENTAL REVENUE	2016 CITY USE OFFICES NOT BILLED	2017 ANTICIPATED RENTAL REVENUE @ \$1.81/sq. ft.	REVENUE AT \$1.85/sq. ft. 2% increase (\$0.04/sq. ft. increase)	REVENUE AT \$1.90/sq. ft. 5% increase (\$0.09/sq. ft. increase)	REVENUE AT \$1.99/sq. ft. 10% increase (\$0.18/sq. ft. increase)
Alyeska Pipeline Service Company	1,778.0	\$3,218.18	\$38,618.16	\$19,309.08					
City of Valdez Finance Dept.					\$12,872.72				
City of Valdez Fire Dept.	2,048.0	\$3,706.88			\$44,482.56				
City of Valdez Engineering Dept.	2,326.0	\$4,210.06			\$50,520.72				
City of Valdez Port Dept.	768.0	\$1,390.08			\$16,680.96				
Civil Air Patrol	1,029.6		\$1.00	\$1.00		\$1.00	\$1.00	\$1.00	\$1.00
Dean Cummings' H2O Guides	615.0	\$1,113.15		\$10,553.20		\$13,357.80	\$13,653.00	\$14,022.00	\$14,686.20
ERA Aviation, Inc.	2,912.0	\$5,270.72	\$63,248.64	\$63,248.64		\$63,248.64	\$64,646.40	\$66,393.60	\$69,538.56
Federal Aviation Administration	21.2	\$38.33	\$459.96	\$459.96		\$459.96	\$470.20	\$482.90	\$505.78
Federal Aviation Administration	271.0	\$490.51	\$5,886.12	\$5,886.12		\$5,886.12	\$6,016.20	\$6,178.80	\$6,471.48
Jeff Johnson & Linda Brandenburg	184.0	\$333.04	\$3,996.48	\$3,996.48		\$3,996.48	\$4,084.80	\$4,195.20	\$4,393.92
The Landing Lights	568.0	\$1,028.08	\$19,873.80	\$12,965.03		\$12,336.96	\$12,609.60	\$12,950.40	\$13,563.84
Valdez Expediting, Inc.	176.0	\$318.56	\$3,822.72	\$3,822.72		\$3,822.72	\$3,907.20	\$4,012.80	\$4,202.88
Valdez U-Drive	184.0	\$333.04	\$3,996.48	\$3,996.48		\$3,996.48	\$4,084.80	\$4,195.20	\$4,393.92
Vertical Solutions LLC	265.0	\$479.65	\$5,755.80	\$5,755.80		\$5,755.80	\$5,883.00	\$6,042.00	\$6,328.20
Vertical Solutions LLC	456.0	\$825.36	\$9,904.32	\$9,904.32		\$9,904.32	\$10,123.20	\$10,396.80	\$10,889.28
Wrangell Mountain Technical Services	10.0	\$18.10	\$0.00	\$162.90		\$217.20	\$222.00	\$228.00	\$238.80
TOTAL ALL PROPERTY SUBLEASES	13,611.8	\$22,773.74	\$155,563.48	\$140,061.73	\$124,556.96	\$122,983.48	\$125,701.40	\$129,098.70	\$135,213.86
Vending Subleases:									
Kodiak Inn, Inc/Best Western Harbor Inn	10.0	\$18.10	\$217.20	\$217.20		\$217.20	\$222.00	\$228.00	\$238.80
Seed Media	30.0	\$54.30	\$651.60	\$651.60		\$651.60	\$666.00	\$684.00	\$716.40
TOTAL ALL VENDING SUBLEASES	40.0	\$72.40	\$868.80	\$868.80		\$868.80	\$888.00	\$912.00	\$955.20
TOTAL ALL SUBLEASES	13,651.78	\$22,846.14	\$156,432.28	\$140,930.53	\$124,556.96	\$123,852.28	\$126,589.40	\$130,010.70	\$136,169.06
Interest Income			\$2,000.00	\$1,500.00		\$2,000.00			
Interest Charges on A/R and Ci				\$1,500.00					
TOTAL PROJECTED REVENUE		\$22,846.14	\$158,432.28	\$143,930.53	\$124,556.96	\$125,852.28	\$126,589.40	\$130,010.70	\$136,169.06
TOTAL PROJECTED EXPENSES*			\$328,528.00	\$328,528.00		\$328,528.00	\$328,528.00	\$328,528.00	\$328,528.00
Projected Transfer from General Fund			(\$170,095.72)	(\$184,597.47)		(\$202,675.72)	(\$201,938.60)	(\$198,517.30)	(\$192,358.94)
Projected Utility Expenses*			\$150,000.00	\$150,000.00		\$150,000.00			
Resolution No. 10-60 Rates - 2011 - \$1.64, 2012 - \$1.72, 2013 - \$1.81, 2014-2016 - \$1.81									
*2017 columns contain placeholder estimates based on 2016 projected expenses and utilities.									

VALDEZ PIONEER FIELD SUBLEASES
Building Use Comparison
August 1, 2016

LESSEE	SQUARE FOOTAGE	POTENTIAL MONTHLY RENT	POTENTIAL ANNUAL RENT	2016 ANTICIPATED RENTAL REVENUE @ \$1.81/sq. ft.	AVIATION RENT	AVIATION SQ. FOOTAGE	NON- AVIATION RENT	NON- AVIATION SQ. FOOTAGE	2016 CITY USE OFFICES NOT BILLED	CITY SQ. FOOTAGE	UNCOLLECTED RENT FROM VACANT OFFICE SPACE	VACANT OFFICE SPACE SQ. FOOTAGE
Alyeska Pipeline Service Company	1,778.0	\$3,218.18	\$38,618.16	\$19,309.08			\$19,309.08	1,778.0				
City of Valdez Finance Dept.									\$12,872.72	1,778.0		
City of Valdez Fire Dept.	2,048.0	\$3,706.88	\$44,482.56						\$44,482.56	2,048.0		
City of Valdez Engineering Dept.	2,326.0	\$4,210.06	\$50,520.72						\$50,520.72	2,326.0		
City of Valdez Port Dept.	768.0	\$1,390.08	\$16,680.96						\$16,680.96	768.0		
Civil Air Patrol	1,029.6	\$1,863.58	\$22,362.96		\$1.00	1,029.6						
Dean Cummings' H2O Guides	615.0	\$1,113.15			\$10,553.20	615.0						
ERA Aviation, Inc./Ravn	2,912.0	\$5,270.72	\$63,248.64		\$63,248.64	2,912.0						
Federal Aviation Administration	21.2	\$38.33	\$459.96		\$459.96	21.2						
Federal Aviation Administration	271.0	\$490.51	\$5,886.12		\$5,886.12	271.0						
Jeff Johnson & Linda Brandenburg	184.0	\$333.04	\$3,996.48	\$3,996.48			\$3,996.48	184.0				
Kodiak Inn, Inc/Best Western Harbor Inn	10.0	\$18.10	\$217.20	\$217.20			\$217.20	10.0				
The Landing Lights	568.0	\$1,028.08	\$12,336.96	\$12,336.96			\$12,336.96	568.0				
Seed Media	30.0	\$54.30	\$651.60	\$651.60			\$651.60	30.0				
Valdez Expediting, Inc.	176.0	\$318.56	\$3,822.72	\$3,822.72			\$3,822.72	176.0				
Valdez U-Drive	184.0	\$333.04	\$3,996.48	\$3,996.48			\$3,996.48	184.0				
Vertical Solutions LLC	265.0	\$479.65	\$5,755.80	\$5,755.80	\$5,755.80	265.0						
Vertical Solutions LLC	456.0	\$825.36	\$9,904.32	\$9,904.32	\$9,904.32	456.0						
Wrangell Mountain Technical Services	10.0	\$18.10	\$217.20	\$217.20			\$217.20	10.0				
Vacant Office Space - Room 120	347.0	\$628.07	\$7,536.84								\$7,536.84	347.0
Vacant Office Space - Room 122 & 123	615.0	\$1,113.15	\$13,357.80								\$13,357.80	615.0
Vacant Office Space - Old Whitney Museum	6,000.0	\$10,860.00	\$130,320.00								\$130,320.00	6,000.0
TOTAL ALL SUBLEASES	20,613.8	\$37,310.94	\$434,373.48	\$140,356.76	\$95,809.04	5,569.8	\$44,547.72	2,940.0	\$124,556.96	6,920.0	\$151,214.64	6,962.0



Legislation Text

File #: 16-0091, **Version:** 1

ITEM TITLE:

Discussion Item: New Boat Harbor Uplands

SUBMITTED BY: Jeremy Talbott, Acting Ports & Harbor Director

FISCAL NOTES:

Expenditure Required: N/A

Unencumbered Balance: N/A

Funding Source: N/A

RECOMMENDATION:

Discussion Item

SUMMARY STATEMENT:

The New Harbor Executive Team has delayed paving in the upland until the 2017 construction season. We have received clear direction from the Ports & Harbor Commission and the City Council to prioritize the in-water construction work over the New Harbor Uplands.

Recent discussions with the Economic Diversification Commission, members of the Project Executive Team and Citizens have differing priorities of the construction elements in the Harbor Uplands. We would like to compile a prioritized list of all known elements and their associated costs estimates and make a recommendation to the City Council for approval.

Consideration should also include items not currently under construction as well as location at each facility. How will the harbors operate and work in conjunction with one another.

Current features included in the 100% upland design package:

- Vessel Launch Ramps
- Wash Down Pads
- Fish Cleaning Station
- Drive Down Ramp
- East Restrooms
- West Restrooms
- Harbor Operations Building
- Bilge Water Treatment Facility

**The Bilge Water Treatment Facility is the only required upland feature to meet our commitment with the U.S. Army Corps. of Engineers.*

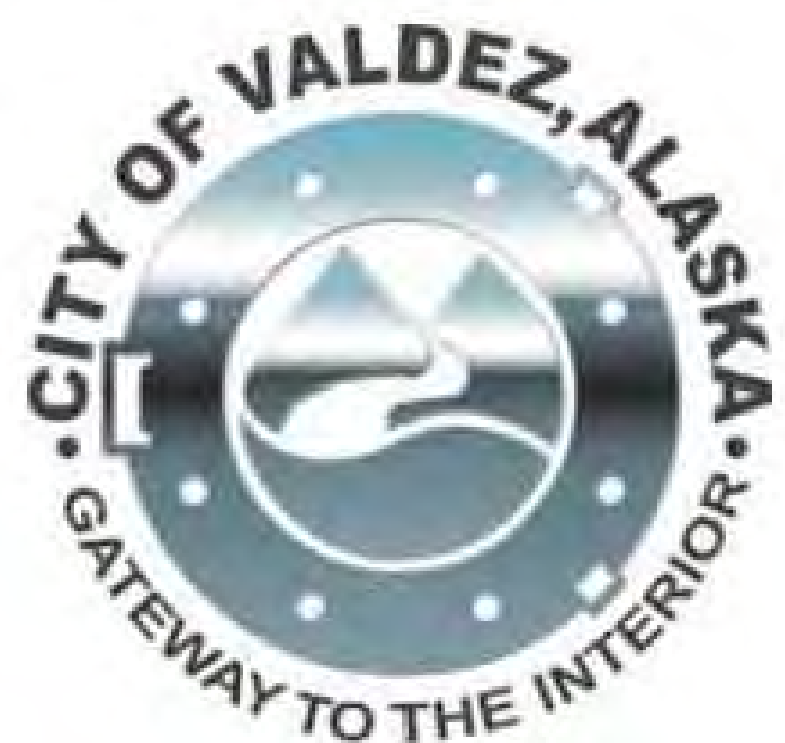
Previously Identified Upland Related Construction Elements:

- | | | | |
|---|---|---|---|
| • Public Fishing Pier | • 100-500 ton Vessel Lift | • Commercial Lease Space | • Additional Vessel Maintenance Pads |
| • Harbormasters Offices | • Large Vessel Maintenance Areas / Boat Yard | • Dry Stack Moorage | • Covered maintenance Pads |
| • Net and Gear Lockers / Storage | • Business Real Estate development | • Coast Guard Cutter Facilities | • Expand Sea Otter / Fill Off Shore |
| • Harbor Staff Maintenance Area | • Kayak Launches | • Community College / Maritime Educational | • Hotel Hill Removal |



CITY OF VALDEZ NEW HARBOR DEVELOPMENT UPLAND FACILITIES

VALDEZ, ALASKA
BID SET
7/8/2016



RUTH E. KNIGHT
MAYOR - CITY OF VALDEZ

DENNIS RAGSDALE
CITY MANAGER

PORT AND HARBOR DIRECTOR

JEREMY TALBOTT
HARBOR MASTER

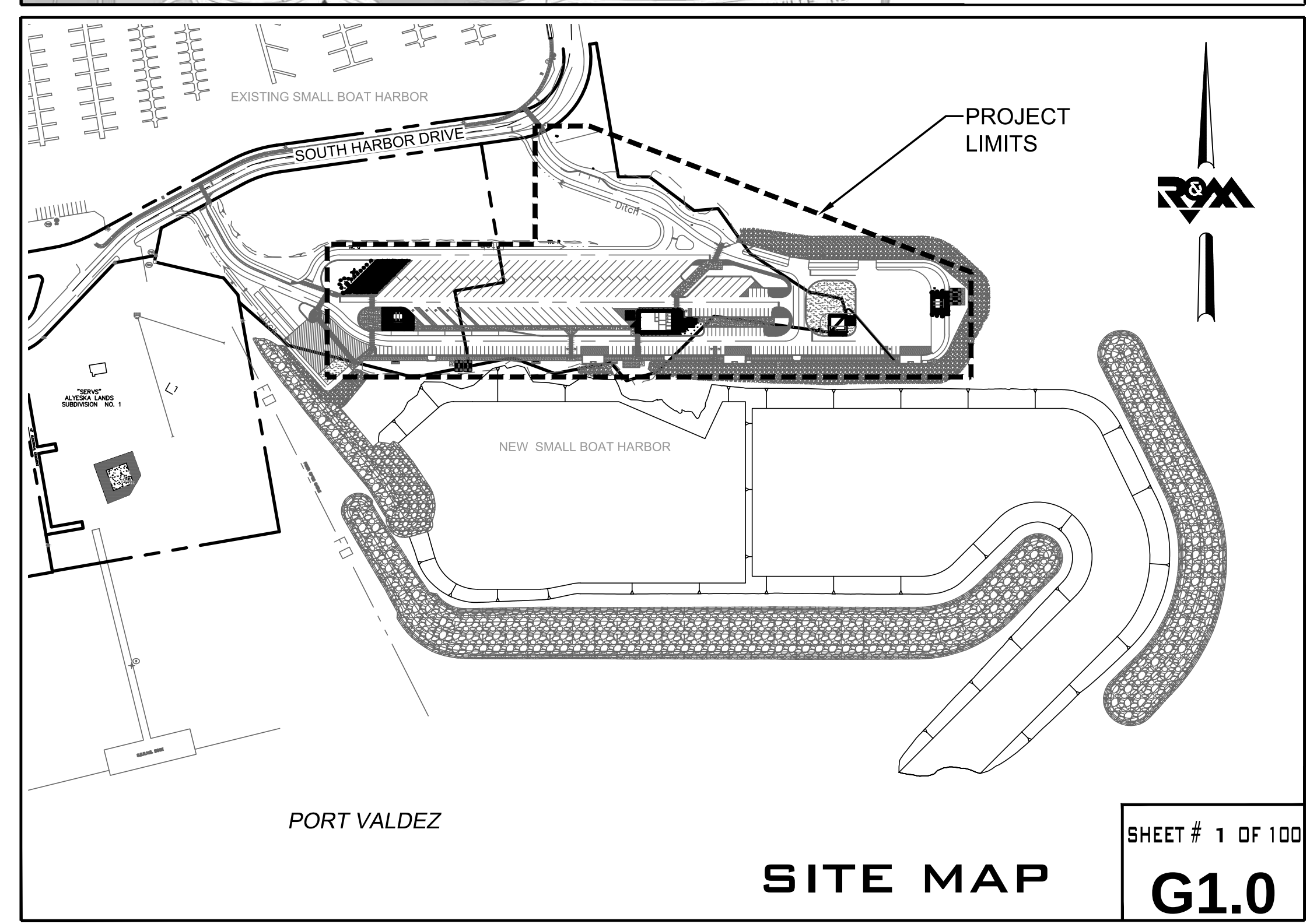
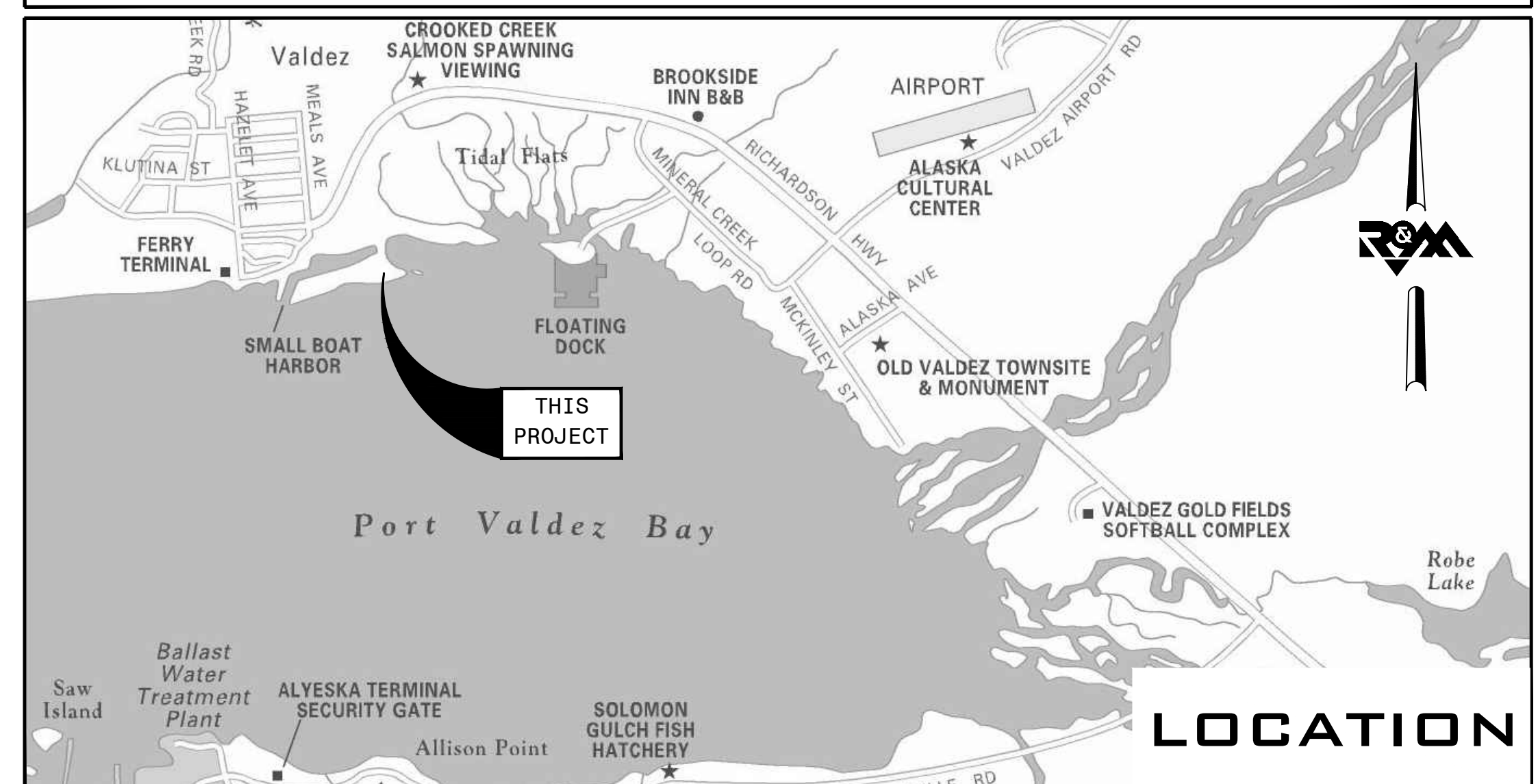
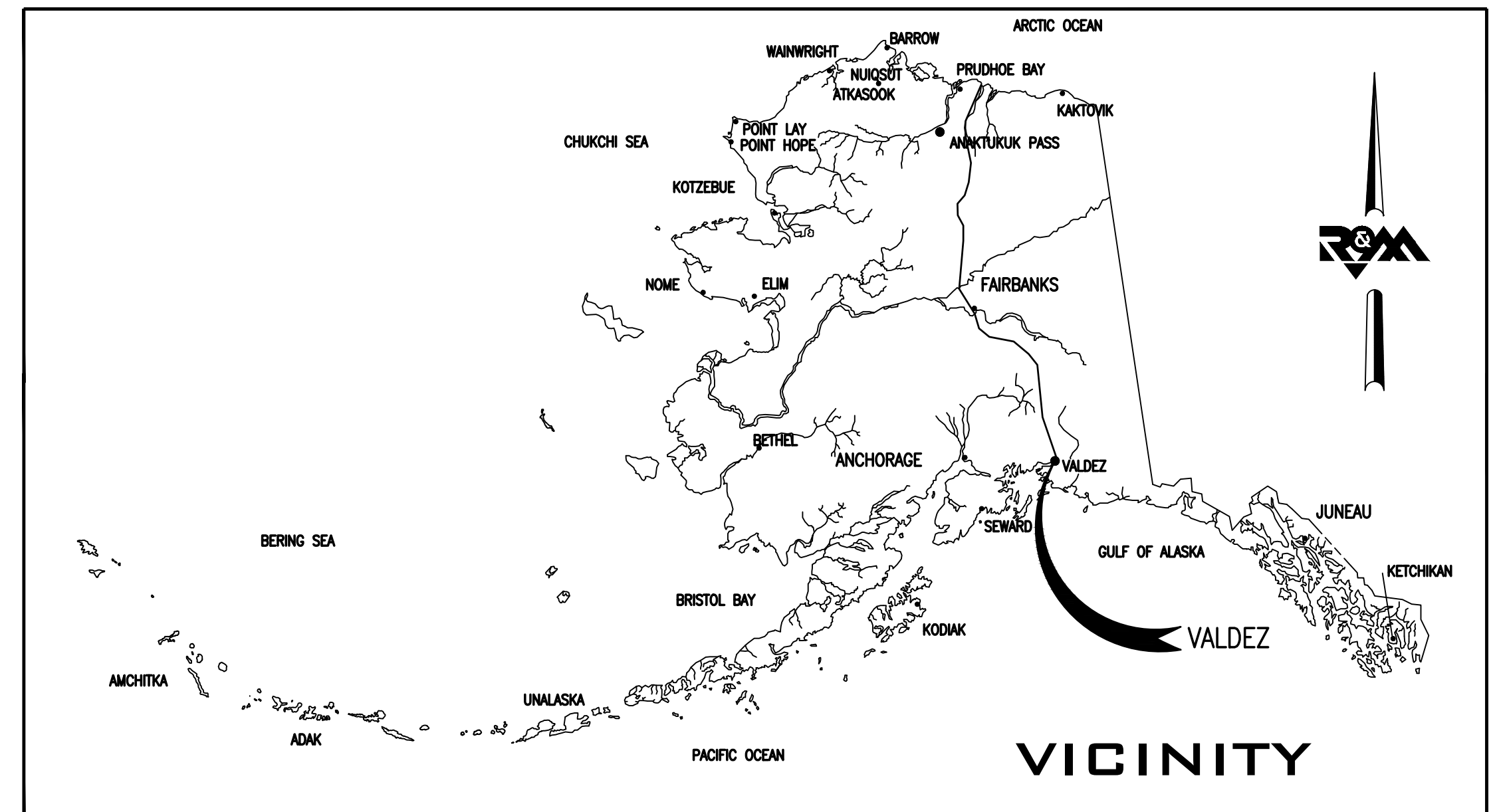
JASON MILES
CAPITAL FACILITIES MANAGER

Designed By:



R&M CONSULTANTS, INC.

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Anchorage, Alaska 99507
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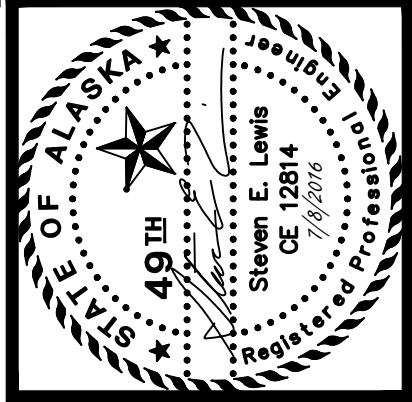
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[illegible]

ABBREVIATIONS

AA	ASPHALT ABUTMENT
AB	ANCHOR BOLT
AC	ASPHALT CONCRETE
ACI	AMERICAN CONCRETE INSTITUTE
ACZA	AMMONIACAL COPPER ZINC ARSENATE
ADA	AMERICANS WITH DISABILITIES ACT
ADDN	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANC	ANCHOR
ANG OR ∟	ANGLE
APF	ASSOCIATED PILE & FITTING
APPX	APPROXIMATE
APPRV	APPROVED
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
AST	ABOVEGROUND STORAGE TANK
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AVE	AVERAGE
AWS	AMERICAN WELDING SOCIETY

B/B	BACK TO BACK
BD	BOARD
BFF	BELOW FINISHED FLOOR
BFP	BACK FLOW PREVENTER
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOF	BOTTOM OF FOOTING
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BRG	BEARING
B.S.	BOTH SIDES
BSPL	BASE PLATE
BTWN, BTW	BETWEEN

OR CHAN	CHANNEL
C&G	CURB AND GUTTER
C/C	CENTER TO CENTER
C.G.	CENTER OF GRAVITY
C.G.C.	CENTER OF GRAVITY OF CONCRETE
C.G.S.	CENTER OF GRAVITY OF STRANDS
CA	CONCRETE ABUTMENT
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL OR C	CENTERLINE
CLR	CLEAR OR CLEARANCE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
COMP	COMPRESSION
CONC	CONCRETE
CONN(S)	CONNECTION(S)
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
COR	CORNER
COV PL	COVER PLATE
CPEP	CORRUGATED POLYETHYLENE PIPE
CSCK	COUNTERSUNK
CSP	CORRUGATED STEEL PIPE
CTR	CENTER
CVSS	CITY OF VALDEZ STANDARD SPECIFICATIONS
CY	CUBIC YARD
CYL	CYLINDER

DBL	DOUBLE
DBLR	DOUBLER
DBN	DIAPHRAGM BOUNDARY
DEG OR °	DEGREES
DET	DETAIL
DIA OR Ø	DIAMETER
DIM(S)	DIMENSION(S)
DIP	DUCTILE IRON PIPE
DL	DEAD LOAD
DN	DOWN
DT	DITCH
DWG(S)	DRAWING(S)
DWL(S)	DOWEL(S)

E	EASTING OR EAST
EA	EACH OR EDGE OF ASPHALT
EF	EACH FACE
EJ	EXPANSION JOINT
EL OR ELEV	ELEVATION
ELEC	ELECTRICAL
ELW	EXTREME LOW WATER
EMB	EMBED OR EMBEDDED
ENGR	ENGINEER
EOD	EDGE OF DECK

EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATED
EW	EACH WAY
EXC	EXCEPT
EX OR EXIST	EXISTING
EXP	EXPANSION
EXP ANC	EXPANSION ANCHOR
EXT	EXTERIOR
EXTN	EXTENSION

F/F	FACE TO FACE
FAB	FABRICATE
FABR	FABRICATOR
FAST	FASTENER
FB	FLAT BAR
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FG	FINISHED GRADE
F&I	FURNISH AND INSTALL
FIN	FINISH(ED)
FK	FOOT KIPS
FLG(S)	FLANGE(S)
FLR	FLOOR
FN	FIELD NAILING
FND	FOUNDATION
F/O	FIBER OPTIC CABLE
FRMG	FRAMING
FS	FAR SIDE
FT OR (')	FEET
FTG	FOOTING
FV	FIELD VERIFY

GA	GAUGE
GALV	GALVANIZED
GB	GRADE BREAK
GEN	GENERAL
GR	GRADE
GRD	GROUND
GV	GATE VALVE

H	STUD(S)	HEADED STUD(S)
HDG		HOT DIPPED GALVANIZED
HDPE		HIGH DENSITY POLYETHYLENE
HK		HOOK
HOR, HORZ, H		HORIZONTAL
HS		HIGH STRENGTH
HSS		HOLLOW STRUCTURAL SECTION
HT		HEIGHT
HTL		HIGH TIDE LINE

I.D.	INSIDE DIAMETER
I.F.	INSIDE FACE
IN OR (")	INCH
INFO	INFORMATION
INT	INTERIOR
INTM	INTERMEDIATE
INV	INVERT
IS	ISLAND

JT	JOINT
L	ANGLE
LB(S)	POUND(S)
LC	LIP OF CURB
LF	LINEAR FEET
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LI	LIGHTS
LONG.	LONGITUDINAL
LS	LUMP SUM
LT	LEFT

MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
ME	MATCH EXISTING
MECH	MECHANICAL
MFR, MFRG	MANUFACTURER
MHW	MEAN HIGH WATER
MHHW	MEAN HIGHER HIGH WATER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
MTL	MEAN TIDE LEVEL
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

N	NORTHING OR NORTH
NAV	NAVIGATION

NE	NORTHEAST
NF	NEAR FACE
NIC	NOT IN CONTRACT
NFS	NON-FROST-SUSCEPTIBLE
NO. OR #	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NW	NORTHWEST

O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OHE	OVER HEAD ELECTRIC
OPNG(S)	OPENING(S)
OPP	OPPOSITE

PAR	PARALLEL
PARTN(S)	PARTITION(S)
PC	POINT OF CURVATURE
P.C.C.	PORTLAND CEMENT CONCRETE
PE	POLYETHYLENE
PEN	PENETRATION
P.E.N.	PANEL EDGE NAILING
PERM	PERMANENT
PERP	PERPENDICULAR
PI	POINT OF INTERSECTION
PL OR PL	PLATE
PLBG	PLUMBING
PLF	POUNDS PER LINEAL FOOT
PLWD	PLYWOOD
PMJ	PRE-MOLDED JOINT
PNL	PANEL
P&P	PLAN AND PROFILE
PRC	POINT OF REVERSE CURVE
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED OR POINT
PVC	POLYVINYL CHLORIDE

R OR RAD	RADIUS
RC	ROCK CUT
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
RM	ROOM
RND	ROUND
R.O.	ROUGH OPENING
RPBP	REDUCED PRESSURE BACK FLOW PREVENTER
RR	RIPRAP
RT	RIGHT

SCHED	SOUTH
SDR	SCHEDULE
SE	STANDARD DIMENSION RATIO
SECT	SOUTHEAST
SF	SECTION
SHT	SQUARE FEET
SHTG	SHEET
SIM	SHEATHING
SIMP	SIMILAR
SP, SPC	SIMPSON
SPCG	SPACE
SPECD	SPACING
SPEC(S)	SPECIFIED
SQ	SPECIFICATION(S)
SS	SQUARE
SSMH	STAINLESS STEEL
STA	SANITARY SEWER MANHOLE
STD	STATION
STIF	STANDARD
STIR	STIFFENER
STL	STIRRUP(S)
STR	STEEL
STRUCT	STRAIGHT
SUPT(S)	STRUCTURE OR STRUCTURAL
SW	SUPPORT(S)
SY	SOUTHWEST OR SIDEWALK
SYM	SQUARE YARD
	SYMMETRICAL

T&B	TOP AND BOTTOM
TBC	TOP BACK OF CURB
TEMP	TEMPORARY
THK, t	THICKNESS
THRD	THREAD
TOB	TOP OF BEAM
TOF	TOP OF FOOTING
TOPC	TOP OF PILE CAP
TOS	TOP OF STEEL
TYP	TYPICAL

UHMW ULTRA-HIGH MOLECULAR WEIGHT
UNO UNLESS NOTED OTHERWISE

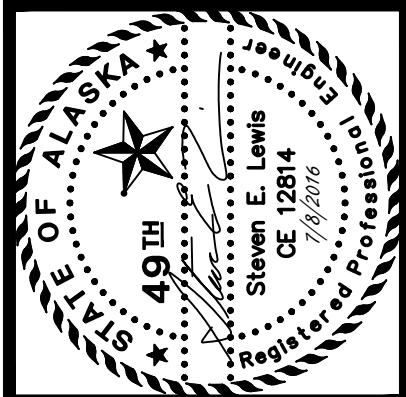
USACE UNITED STATES ARMY CORPS OF ENGINEERS
UT ULTRASONIC TESTING

VB	VALVE BOX
VERT, VER, V	VERTICAL

W	WEST
W/	WITH
WT	WEIGHT
WWF	WELDED WIRE FABRIC
XXS	DOUBLE EXTRA STRONG

LEGEND

DESCRIPTION	EXISTING	NEW
ASPHALT		
CONCRETE		
TIMBER BOARDWALK		
IMPRINTED COLORED CONCRETE		
EXPOSED BEDROCK		
RIPRAP		
SLOPE MARKER		
NATIVE SOIL		
NEW BUILDING OUTLINE		
WATER LINE	_____ W _____	_____ W _____
SEWER LINE	_____ S _____	_____ S _____
STORM DRAIN	_____ SD _____	_____ SD _____
BILGE WATER		_____ O - - - _____
FUEL CARRIER PIPE	_____ F _____	
ELECTRICAL	_____ E _____	
TELEPHONE	_____ T _____	
CONTOURS	--- XX ---	_____ XX _____
CURB AND GUTTER, TYPE. REF. CVSS DETAIL 30-1		
FUEL PIPE		_____ F _____
VALVE		
SEWER MANHOLE		
STORM DRAIN		
CLEANOUT		



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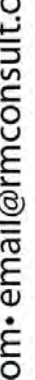
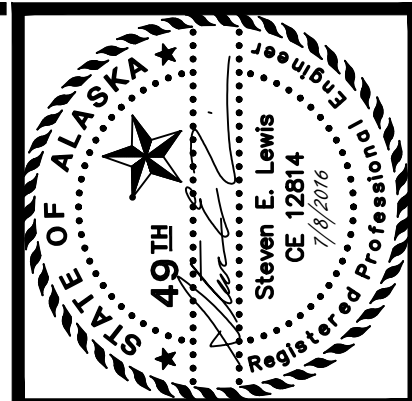
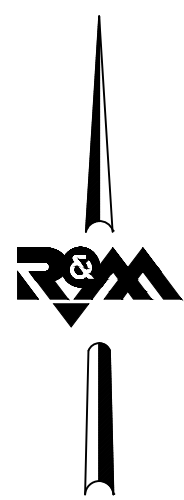
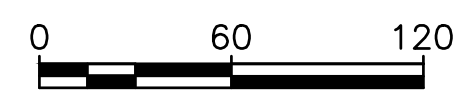
City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

[illegible]

Drawn By: SL	Checked By: KN, DP
Date: JULY 8, 2016	
Phase: BID SET	
Project No: 1894.01	
SHEET TITLE: ABBREVIATIONS AND LEGEND	

SHEET NO:
4 OF 100

G2.1



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CITY OF VALDEZ, ALASKA
GATEWAY TO THE INTERIOR

[illegible]

Drawn By: SL	Checked By: KN, DP
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Date: JULY 8, 2016

BID SET

Project No: 1894.01

SHEET TITLE:

EXISTING SITE PLAN

SHEET NO:

5 OF 100

G3.0

1 EXISTING SITE PLAN

Scale: 1" = 60'

NOTES:

1. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AROUND ALL WORK AND STAGING AREAS.
2. ANY DAMAGE TO EXISTING PAVEMENTS, PAINT MARKINGS, CONCRETE, TIMBER, UTILITIES, OR OTHER IMPROVEMENTS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
3. SEE LANDSCAPE PLANS FOR ADDITIONAL AREAS OF WORK.
4. CONTRACTOR SHALL COORDINATE/SHARE STAGING AREA WITH OTHER CONTRACTORS FOR PHASE 1 UPLANDS, PHASE 2 FLOATS AND LAUNCH RAMP WORK.

EARTHWORK

PERMITTED USE OF ONSITE MATERIALS
THE ONSITE MATERIALS REMAIN UNDER CITY CONTROL – THE FOLLOWING ARE PERMITTED USES:

PERMITTED USE OF ONSITE MATERIALS

- USE OF EXCAVATED NATIVE OR FILL MATERIALS MAY BE USED WHERE UNCLASSIFIED FILL IS SPECIFIED WHEN FINES CONTENT IS LESS THAN 10% BY VISUAL EXAMINATION AT THE DIRECTION OF THE OWNER'S ON-SITE REPRESENTATIVE.
- EXCAVATED ROCK MAY BE PROCESSED, TESTED AND USED FOR ANY MATERIAL WHERE IT MEETS THE GRADATION AND QUALITY SPECIFICATIONS OF THIS CONTRACT.

CLASSIFIED FILL TYPE II MATERIAL SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 31 20 00 EARTH MOVING. CLASSIFIED FILL TYPE II SHALL BE GRADED WITHIN THE LIMITATION DELINEATED BELOW:

CLASSIFIED FILL - TYPE II-A

CLASSIFIED FILL TYPE II-A MATERIAL SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 31 20 00 EARTH MOVING. CLASSIFIED FILL TYPE II-A SHALL BE GRADED WITHIN THE LIMITATION DELINEATED BELOW:

LEVELING COURSE

LEVELING COURSE MATERIAL SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 31 20 00 EARTH MOVING
LEVELING COURSE SHALL BE GRADED WITHIN THE LIMITATION DELINEATED BELOW:

BEDDING COURSE CLASS E

BEDDING COURSE MATERIAL SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 31 20 00 EARTH MOVING.
BEDDING COURSE MATERIAL SHALL BE GRADED WITHIN THE LIMITATIONS DELINEATED BELOW:

CONCRETE AND REINFORCEMENT:

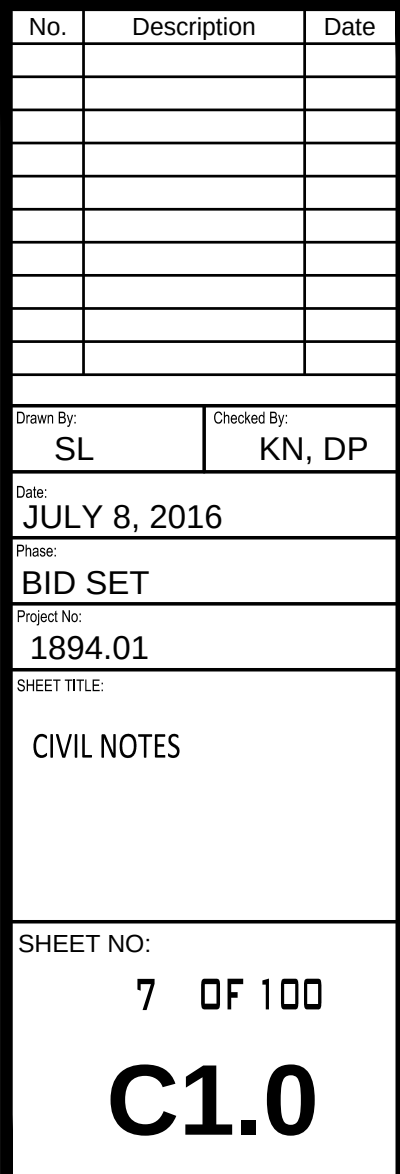
CONCRETE FOR PAVEMENTS, CURB AND GUTTER, PLAZAS, SIDEWALKS, PIPE BOLLARDS, AND SEAT WALLS SHALL BE PER THE SPECIFICATIONS. CONCRETE MIX DESIGN FOR ALL WORK SHALL BE 4,500 PSI, WITH 0.45 WATER CEMENT RATIO AND 6% MINIMUM AIR ENTRAINMENT. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60, HOT DIP GALVANIZED PER ASTM A767, UNO. LAP SPLICE SHALL BE A MINIMUM OF 27 BAR DIAMETERS WITH MINIMUM STAGGER DISTANCE OF 24 INCHES.

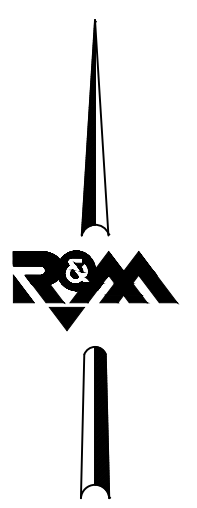
SERVICE PITS ARE IN-GROUND PREFABRICATED FIBERGLASS VAULTS WITH CAST ALUMINUM ACCESS COVER ASSEMBLIES AS MANUFACTURED BY CAVOTEC DABICO IN ACCORDANCE WITH THE PLANS, MODEL NUMBER D24WPHD85SF-VA-42D.

WATER TIGHT HATCH SHALL BE BAIER MODEL BFHR24 ROUND CAST ALUMINUM FLUSH HATCH, OR ENGINEER PRE-APPROVED EQUAL.

OIL WATER SEPARATOR SHALL BE STC 450i PRECAST CONCRETE STORMCEPTOR WITH TOP INLET AS MANUFACTURED BY RINKER MATERIALS-CONCRETE PIPE DIVISION, NO SUBSTITUTIONS.

30-1	CURB AND GUTTER CROSS SECTIONS
55-3	STORM DRAIN MANHOLE TYPE I
70-31	CONCRETE FOUNDATION FOR SIGN POST

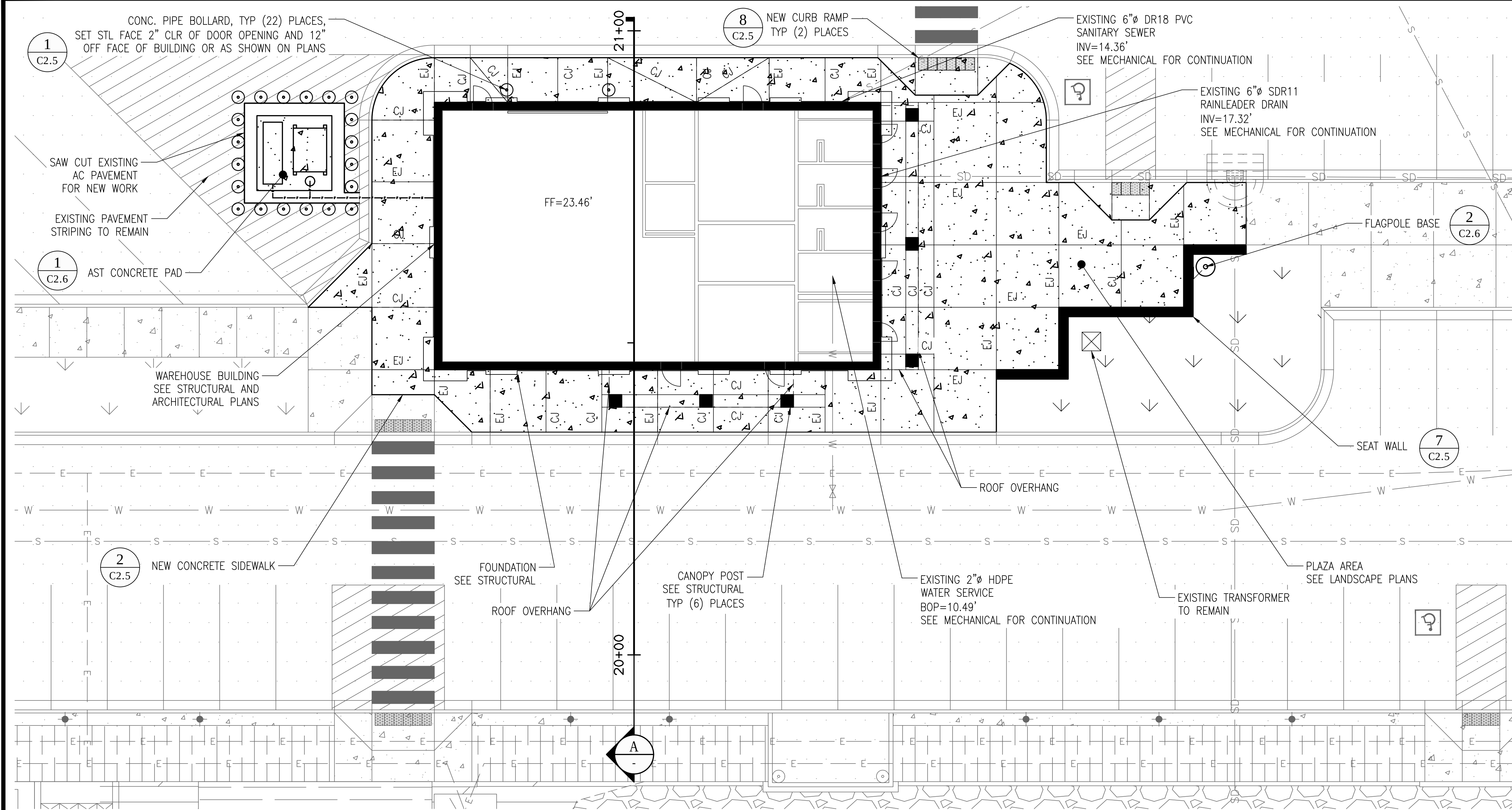




1 SITE PLAN OVERALL

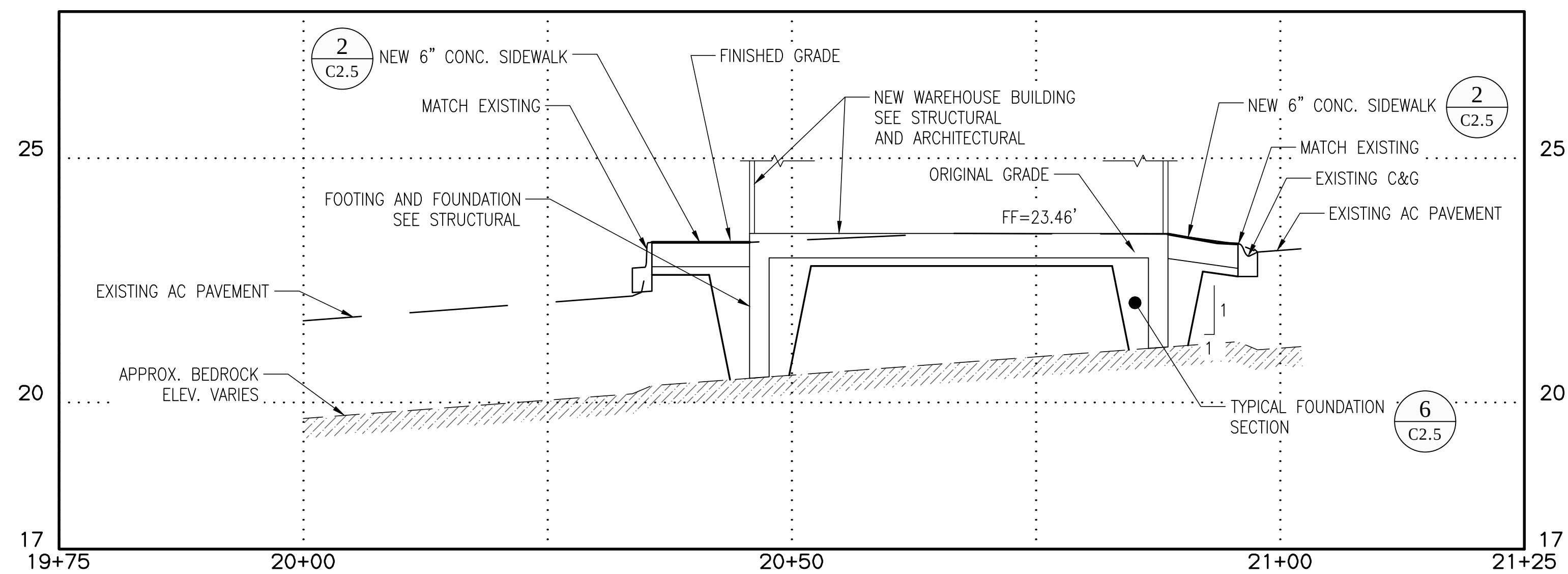
Scale: 1" = 60'

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1 WAREHOUSE BUILDING SITE PLAN

Scale: 1" = 10'

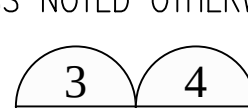


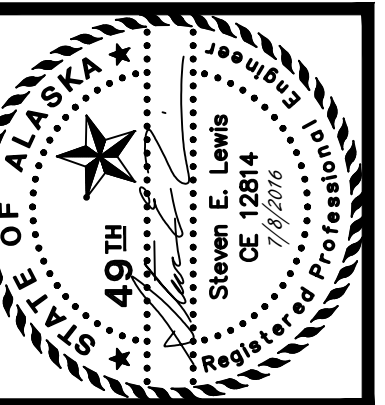
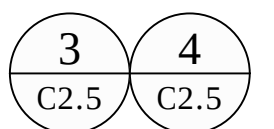
WAREHOUSE BUILDING SITE SECTION
Scale: 1" = 10'; 1H:5V

- NOTES:

1. ANY DAMAGE TO EXISTING PAVED SURFACES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. F&I CONTINUOUS EXPANSION JOINT BETWEEN NEW AND EXISTING CONCRETE WORK AND BETWEEN STRUCTURES AND SIDEWALKS.
3. TACK COAT AC AND CONCRETE PAVEMENTS PRIOR TO PLACEMENT OF NEW AC PAVEMENT.
4. PAVEMENT CUT SHALL BE STRAIGHT, SQUARE AND PARALLEL TO SIDE OF TRENCH OR WORK. SAWCUT SHALL BE FULL DEPTH OF PAVEMENT SECTION AND CUT VERTICAL.
5. TAPER CURB, 6"-0" TYPICAL, UNLESS NOTED OTHERWISE.
6. CONTROL AND EXPANSION JOINTS

CJ = CONTROL JOINT
 EJ = EXPANSION JOINT



[illegible]

Drawn By: SL	Checked By: KN, DP
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JULY 8, 2016

BID SET

1894.01

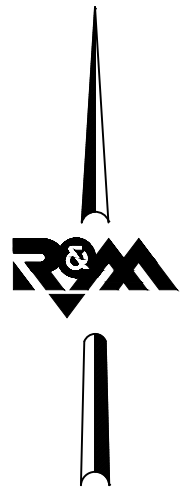
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WAREHOUSE BUILDING
SITE PLAN

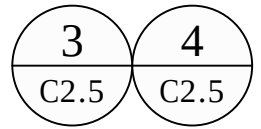
SHEET NO:

10 OF 100

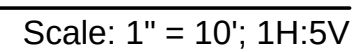
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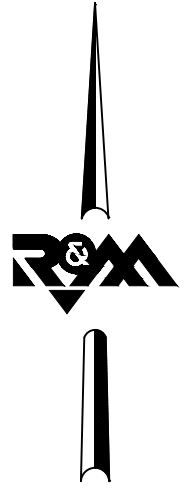
1. ANY DAMAGE TO EXISTING PAVED SURFACES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. F&I CONTINUOUS EXPANSION JOINT BETWEEN NEW AND EXISTING CONCRETE WORK AND BETWEEN STRUCTURES AND SIDEWALKS.
3. CONTROL AND EXPANSION JOINTS
 CJ = CONTROL JOINT
 EJ = EXPANSION JOINT



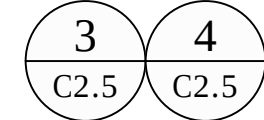
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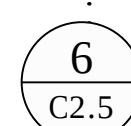
C2.3



1. ANY DAMAGE TO EXISTING PAVED SURFACES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. F&I CONTINUOUS EXPANSION JOINT BETWEEN NEW AND EXISTING CONCRETE WORK AND BETWEEN STRUCTURES AND SIDEWALKS.
3. TACK COAT AC AND CONCRETE PAVEMENTS PRIOR TO PLACEMENT OF NEW AC PAVEMENT.
4. CONTROL AND EXPANSION JOINTS
 CJ = CONTROL JOINT
 EJ = EXPANSION JOINT
 



Scale: 1" = 10'



Scale: 1" = 10'; 1H:5V

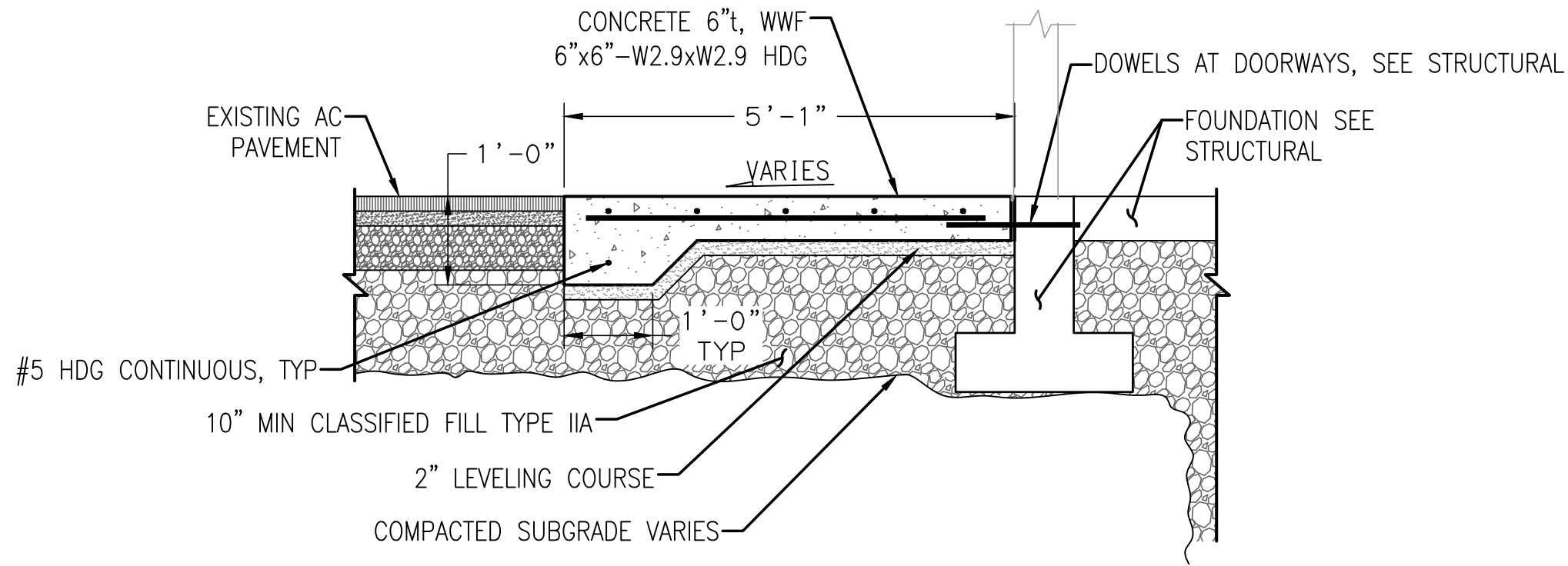
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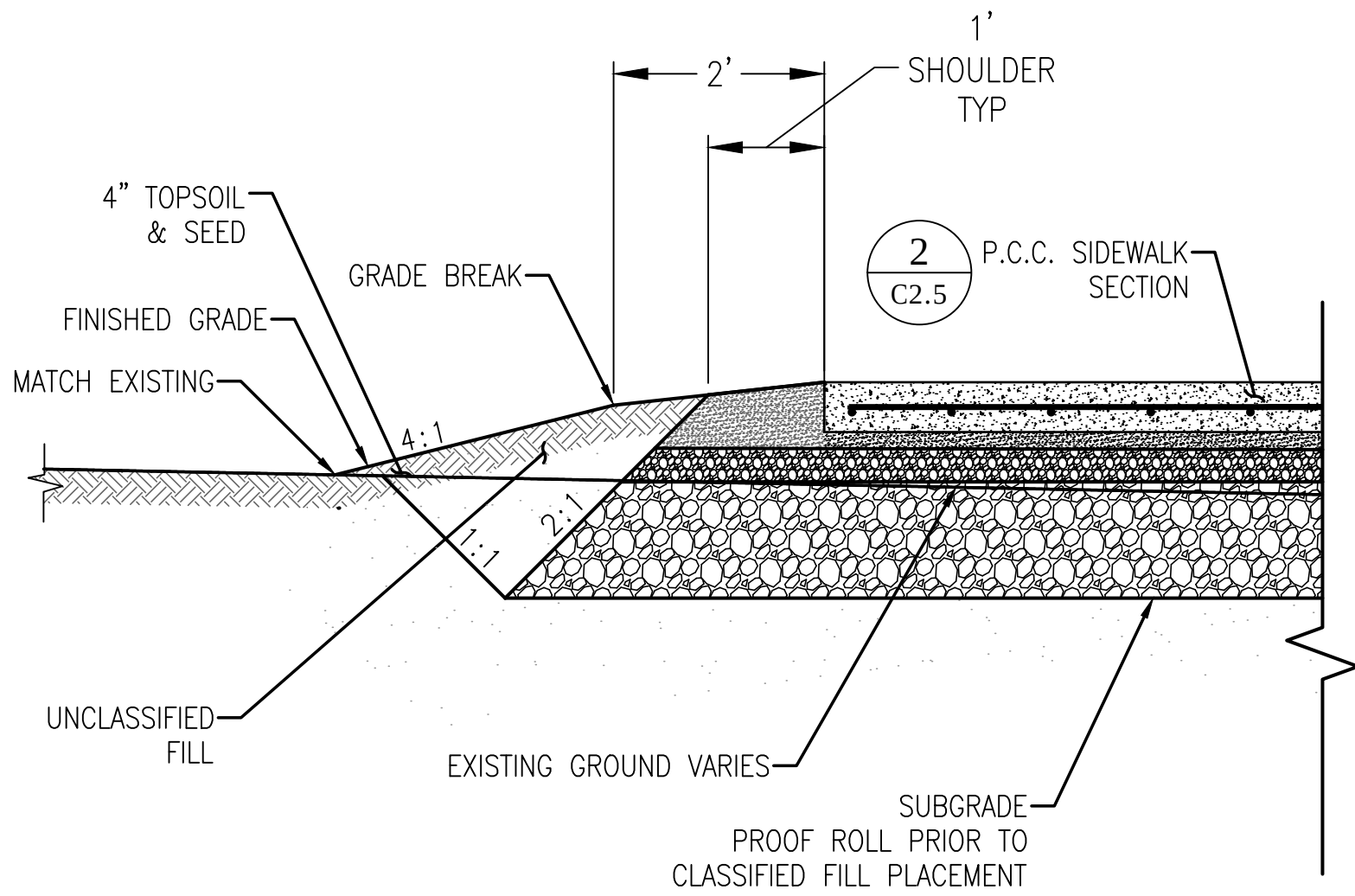
C2.6

Plotted 7/7/2016 4:53 PM by Steven Lewis Z:\project\1894.01 City Of Valdez Harbor Facilities\Civil\ACAD\Uplands Facilities\1894.01-C2.1 Civil Details.dwg



1 THICKENED EDGE SIDEWALK
EAST RESTROOM

NTS



2 P.C.C. SIDEWALK
FILL SECTION

NTS

SHEET NOTES:

1. APPLY TACK COAT TO ALL PAVED AND CONCRETE STRUCTURE SURFACES IN CONTACT WITH NEW ASPHALT CONCRETE PAVEMENT.
2. ALL CLASSIFIED FILL AND LEVELING COURSE SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.

No.	Description	Date

Drawn By:	Checked By:
SL	KN, DP

Date: JULY 8, 2016

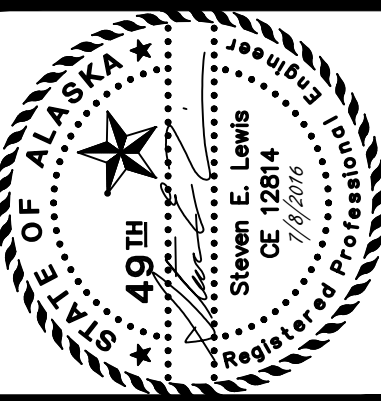
Phase: BID SET

Project No: 1894.01

SHEET TITLE: CIVIL DETAILS

SHEET NO: 15 OF 100

C2.7

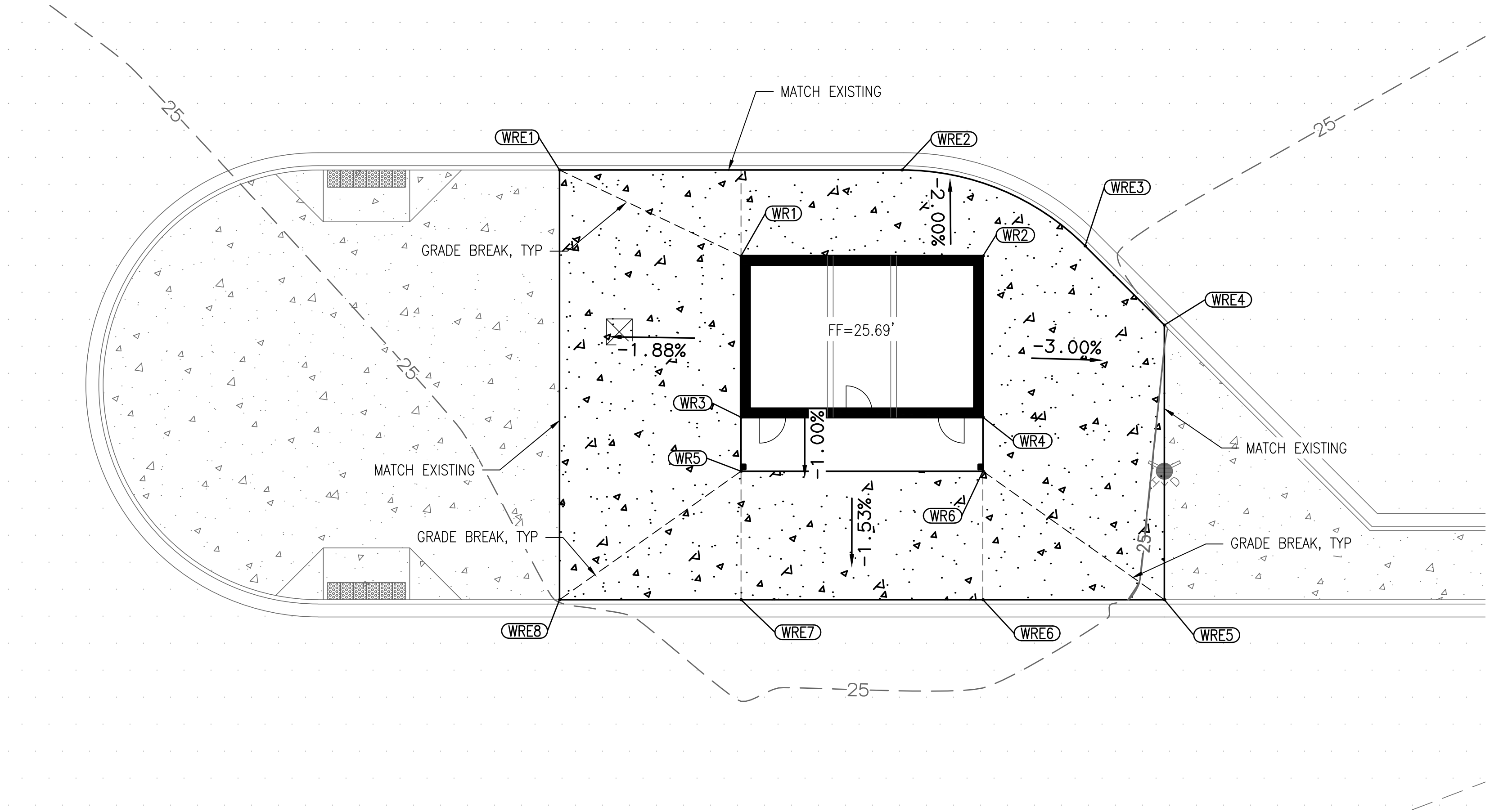


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City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

Z:\project\1894.01 City Of Valdez Harbor Facilities\Civil\ACAD\Uplands Facilities\1894.01-C3.0 Grading Plans.dwg

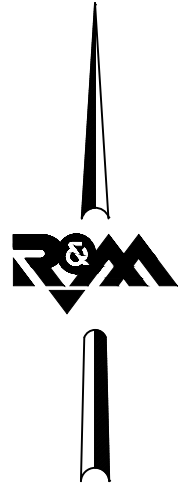
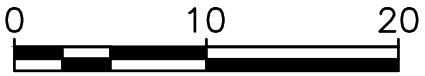
Plotted 7/7/2016 4:54 PM by Steven Lewis



1 WEST RESTROOM GRADING PLAN
Scale: 1" = 10'

GRADING POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
WR1	2603163.56	1580234.80	25.69	FF / BC
WR2	2603163.56	1580262.80	25.41	FF / BC
WR3	2603144.90	1580234.80	25.69	FF / BC
WR4	2603144.90	1580262.80	25.69	FF / BC
WR5	2603138.65	1580234.80	25.63	FF
WR6	2603138.65	1580262.80	25.63	FF

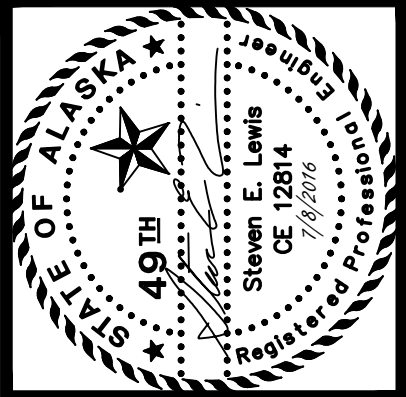
MATCH EXISTING GRADING POINTS			
POINT	NORTHING	EASTING	DESCRIPTION
WRE1	2603173.52	1580213.80	TBC
WRE2	2603173.52	1580253.42	TBC
WRE3	2603164.73	1580274.63	TBC
WRE4	2603155.56	1580283.80	TBC
WRE5	2603123.77	1580283.80	TBC
WRE6	2603123.77	1580262.80	TBC
WRE7	2603123.77	1580234.80	TBC
WRE8	2603123.77	1580213.80	TBC



NOTES:

- CURB ELEVATIONS ARE REPORTED TO TOP BACK OF CURB UNLESS OTHERWISE NOTED.
- PAVEMENT JOINTS AND STRIPING NOT SHOWN FOR CLARITY.

FF: FINISHED FLOOR
TBC: TOP BACK OF CURB
BC: BUILDING CORNER



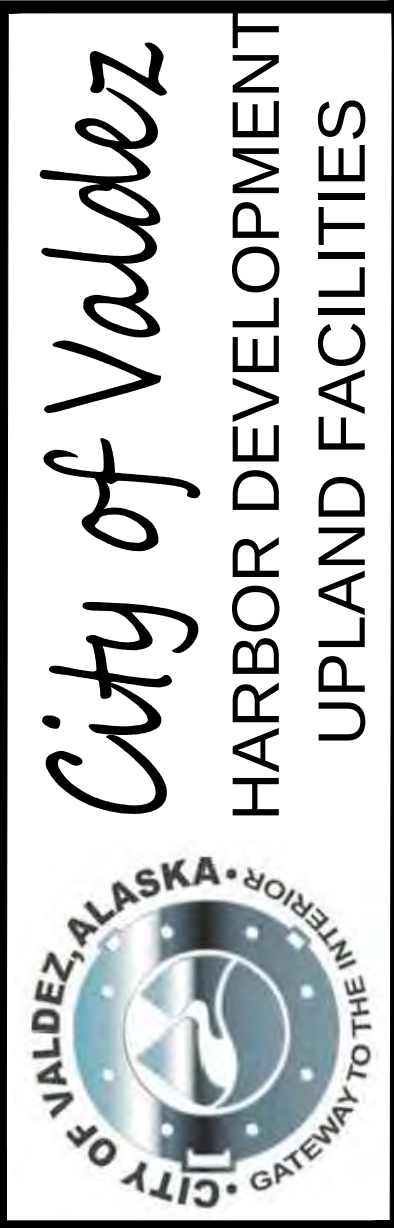
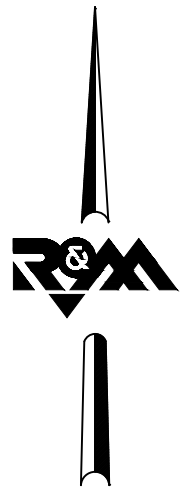
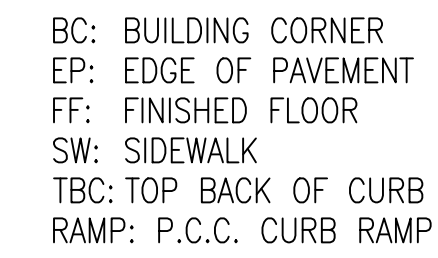
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City of Valdez

**HARBOR DEVELOPMENT
UPLAND FACILITIES**

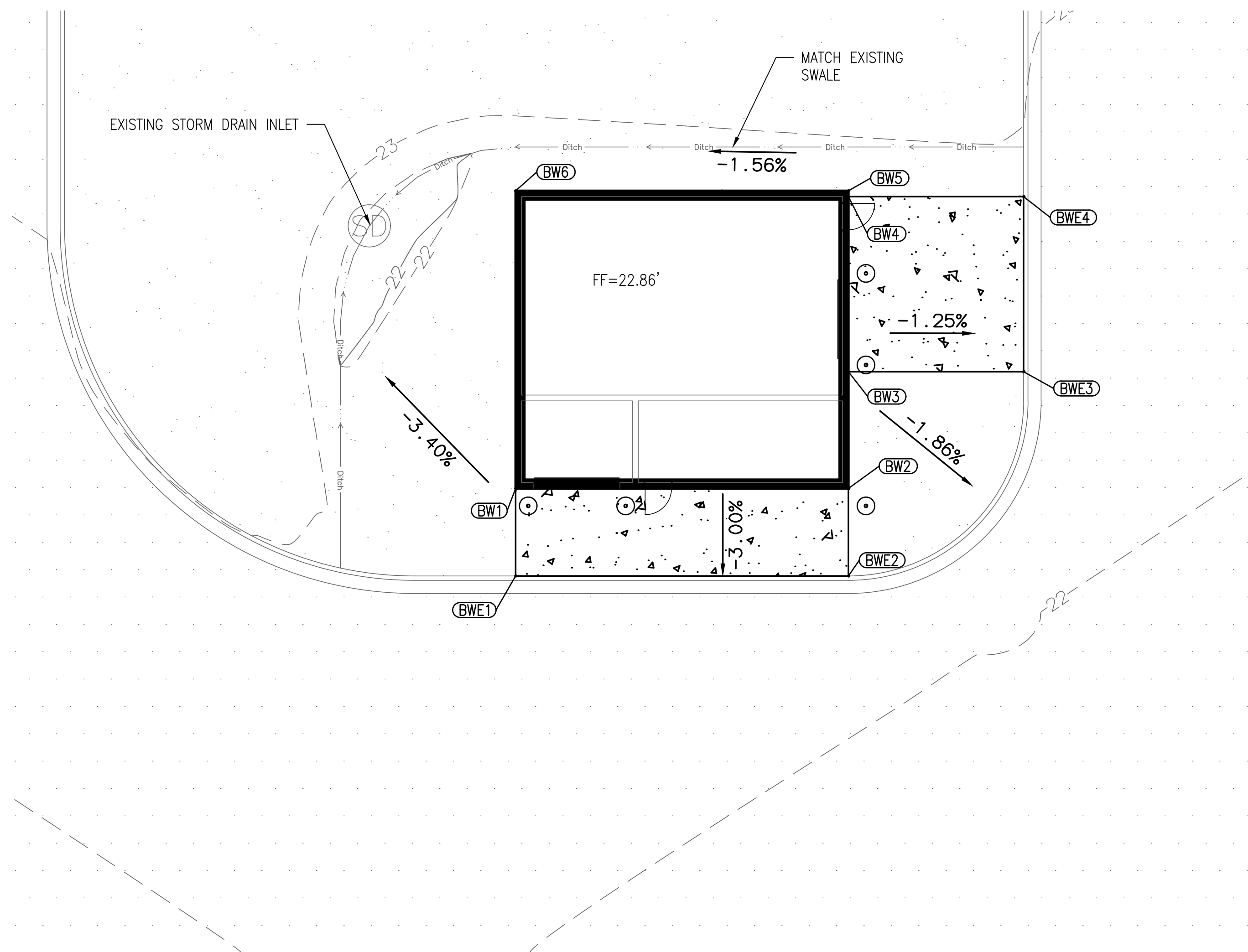
No.	Description	Date
Drawn By: SL		Checked By: KN, DP
Date: JULY 8, 2016		
Phase: BID SET		
Project No: 1894.01		
SHEET TITLE: EXCAVATION GRADING AND DRAINAGE PLAN - WEST RESTROOM		
SHEET NO: 16 OF 100		
C3.1		



Scale: 1" = 10'

MATCH EXISTING GRADING POINTS			
POINT	NORTHING	EASTING	DESCRIPTION
MBE22	2603171.77	1580876.27	TBC / RAMP
MBE23	2603151.77	1580897.75	TBC / RAMP
MBE24	2603171.77	1580795.00	TBC
MBE25	2603171.77	1580831.23	TBC
MBE26	2603111.77	1580842.71	TBC
MBE27	2603111.77	1580825.00	TBC
MBE28	2603151.77	1580903.75	TBC

SHEET NO:
17 OF 100
C3.2

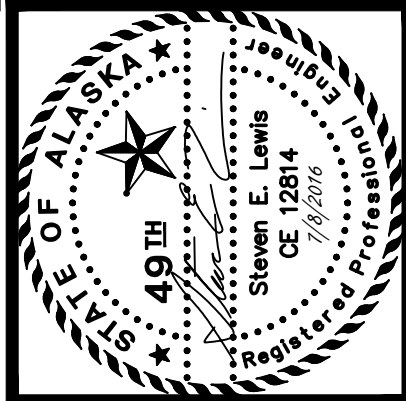
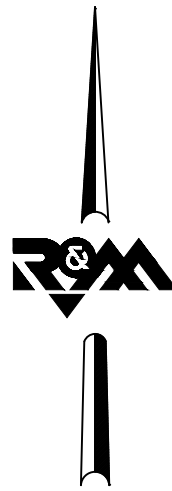
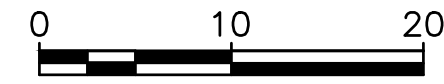


1 **BILGE WATER TREATMENT BUILDING GRADING PLAN**

Scale: 1" = 10'

GRADING POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
BW1	2603121.77	1581211.81	22.86	SW/BC
BW2	2603121.77	1581249.81	22.86	SW/BC
BW3	2603135.10	1581249.81	22.86	SW
BW4	2603155.10	1581249.81	22.86	SW
BW5	2603155.77	1581249.81	22.74	BC
BW6	2603155.77	1581211.81	22.36	BC

MATCH EXISTING GRADING POINTS			
POINT	NORTHING	EASTING	DESCRIPTION
BWE1	2603111.77	1581211.81	TBC
BWE2	2603111.77	1581249.81	TBC
BWE3	2603135.10	1581269.81	TBC
BWE4	2603155.10	1581269.81	TBC



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Anchorage, Alaska 99507
rmconsult.com • email@rmconsult.com
phone: 907.522.1707 • fax: 907.522.3403

NOTES:

1. CURB ELEVATIONS ARE REPORTED TO TOP BACK OF CURB UNLESS OTHERWISE NOTED.
2. PAVEMENT JOINTS AND STRIPING NOT SHOWN FOR CLARITY.

BC: BUILDING CORNER
FF: FINISHED FLOOR
SW: SIDEWALK
TBC: TOP BACK OF CURB

[illegible]

Drawn By: SL	Checked By: KN, DP
-----------------	-----------------------

Date: JULY 8, 2016

Phase

BID SET

Project No: 1894.01

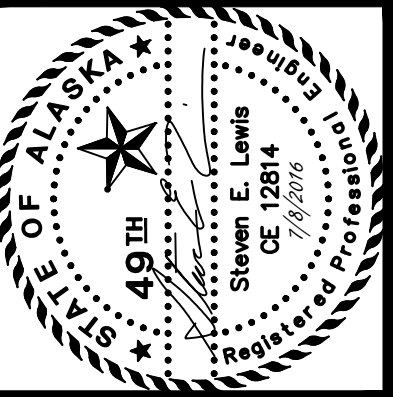
SHEET TITLE:

EXCAVATION GRADING
AND DRAINAGE PLAN -
BILGE TREATMENT
BUILDING

SHEET NO:

18 OF 100

C3.3



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HARBOR DEVELOPMENT
UPLAND FACILITIES

[illegible]

Drawn By: SL	Checked By: KN, DP
Date: JULY 8, 2016	
Phase: BID SET	
Project No: 1894.01	
SHEET TITLE: EXCAVATION GRADING AND DRAINAGE PLAN - EAST RESTROOM	

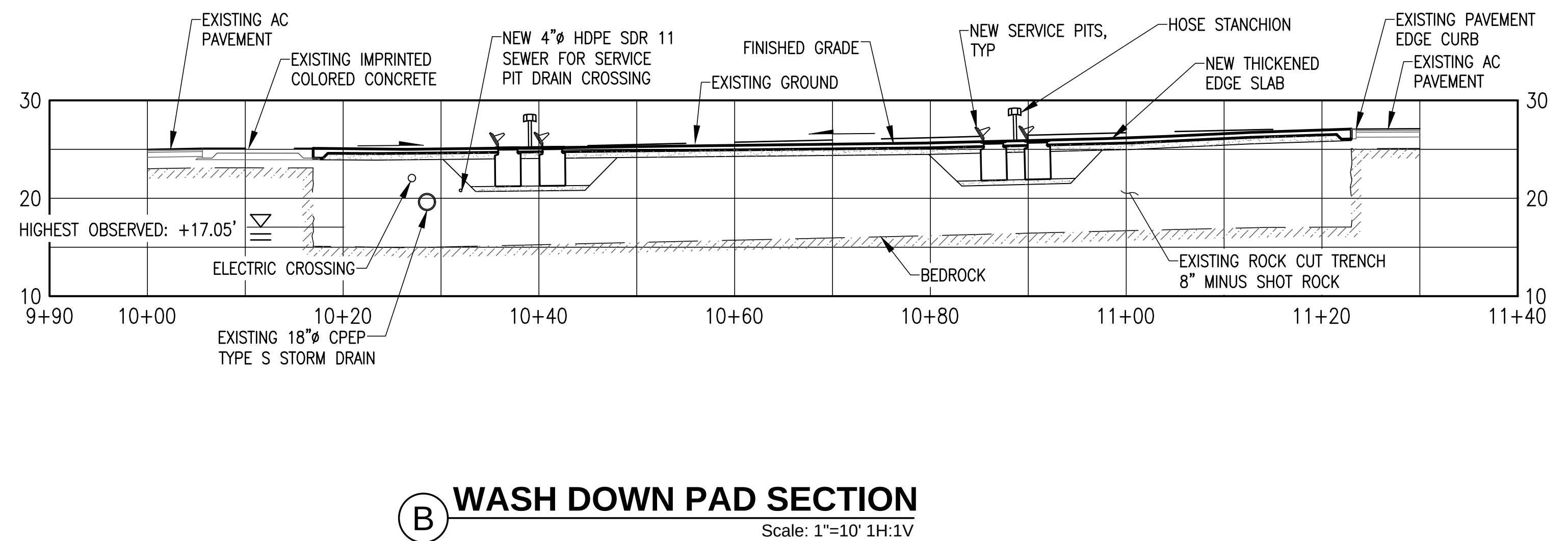
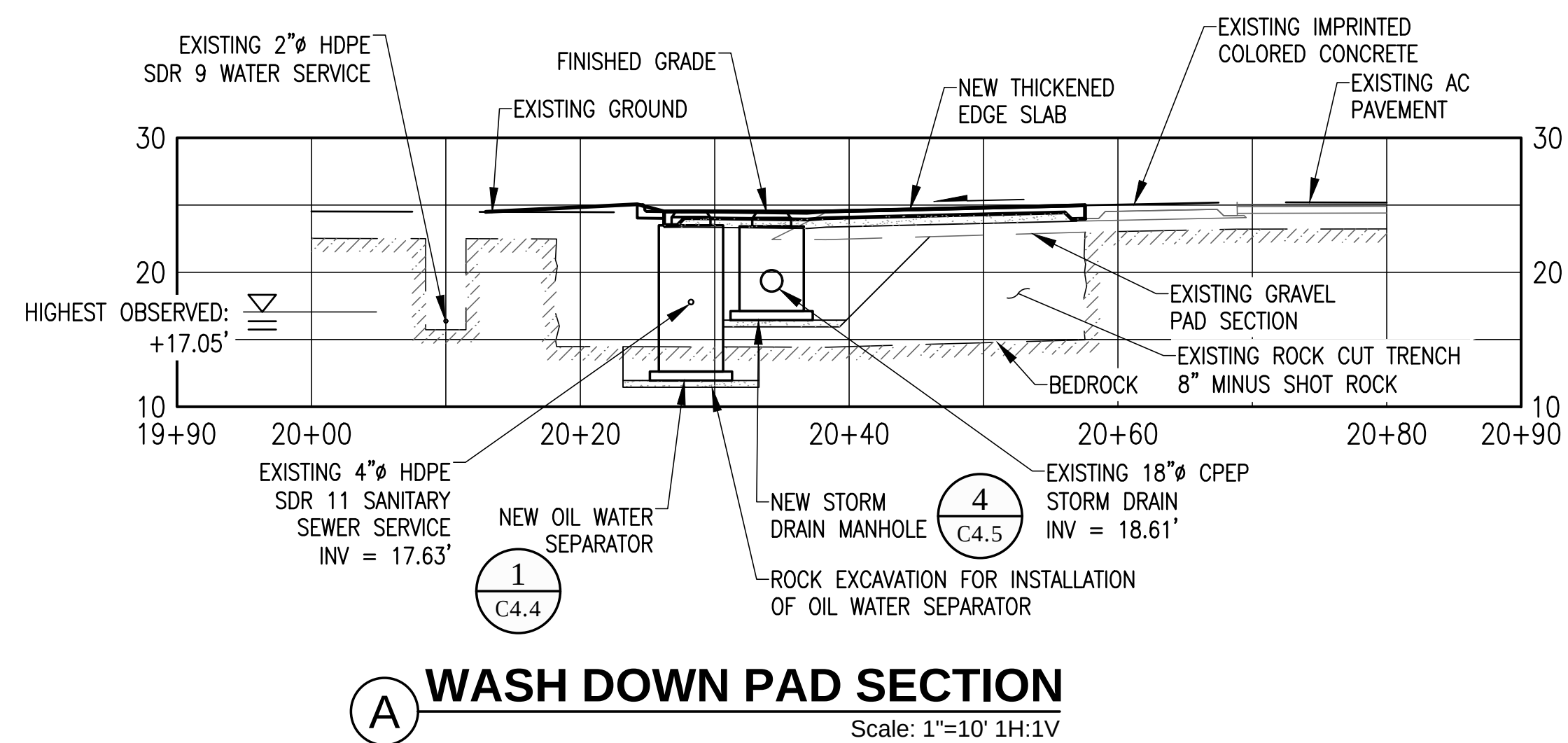
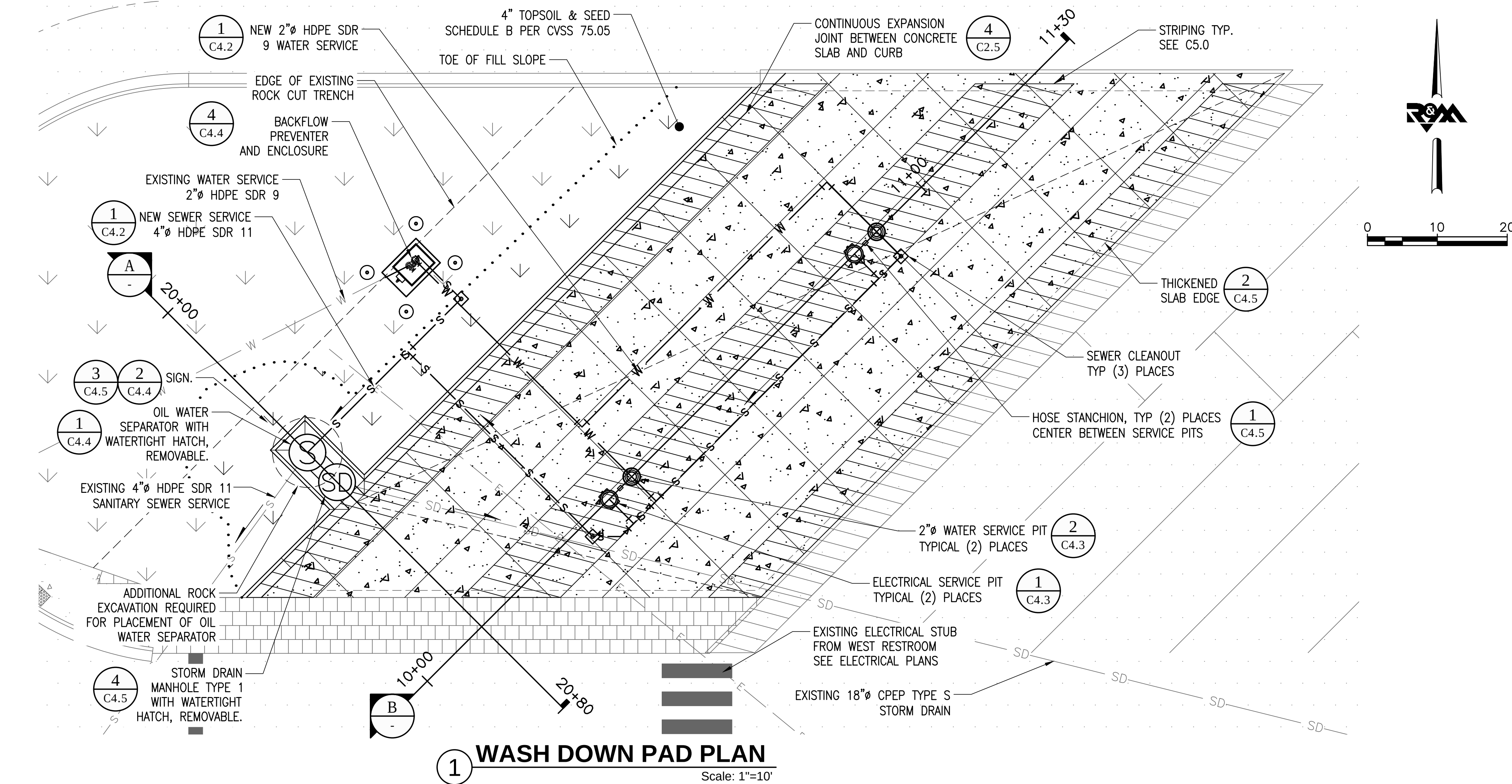
SHEET NO:
19 OF 100
C3.4

1 EAST RESTROOM GRADING PLAN

Scale: 1" = 10'

GRADING POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
ER1	2603159.45	1581469.46	22.48	SW
ER2	2603159.45	1581479.46	22.38	SW
ER3	2603169.45	1581469.46	22.68	SW
ER4	2603169.45	1581463.21	22.74	SW/BC
ER5	2603169.45	1581444.54	22.25	SW/BC
ER6	2603197.45	1581444.54	22.74	SW/BC
ER7	2603197.45	1581463.21	22.74	SW/BC
ER8	2603197.45	1581469.46	22.68	SW
ER9	2603207.45	1581469.46	22.68	SW

MATCH EXISTING GRADING POINTS			
POINT	NORTHING	EASTING	DESCRIPTION
ERE1	2603157.45	1581469.46	SW
ERE2	2603157.45	1581479.46	SW
ERE3	2603175.74	1581479.46	SW
ERE4	2603207.44	1581479.42	SW
ERE5	2603209.44	1581479.46	SW
ERE6	2603209.45	1581469.46	SW
ERE7	2603207.45	1581439.47	EP
ERE8	2603159.45	1581439.46	EP



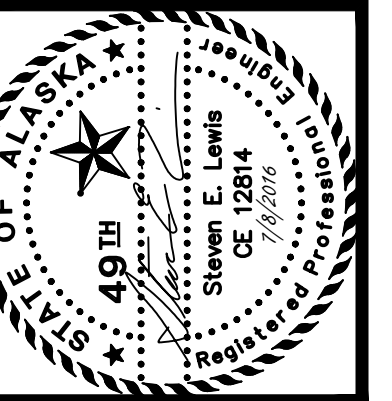
NOTES:

1. TOPSOIL AND SEED ALL DISTURBED AREAS.

SHEET LEGEND:

DESCRIPTION	SYMBOL
-------------	--------

PIPE FLOW

[illegible]

Drawn By: SL	Checked By: KN, DP
-----------------	-----------------------

JULY 8, 2016

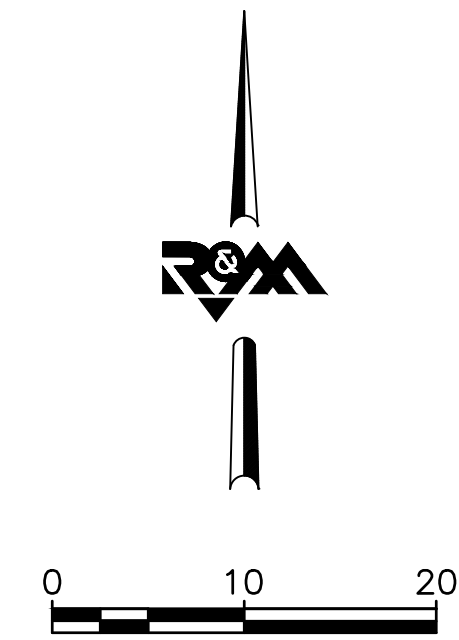
SOLID SET

1894.01

WASH DOWN PAD PLAN

SHEET NO:

C4.0



1. P.C.C. CURB AND GUTTER TYPE PER CVSS DETAIL 30-1.
2. TOPSOIL AND SEED ALL DISTURBED AREAS WITH SCHEDULE B PER CVSS 75.05.
3. SEE SHEET C5.0 FOR STRIPING.
4. PAVEMENT JOINTS NOT SHOWN FOR CLARITY.

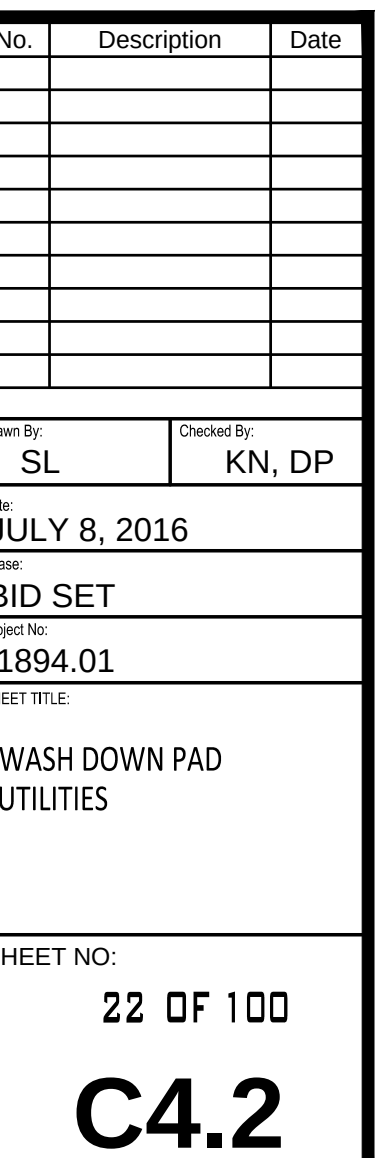
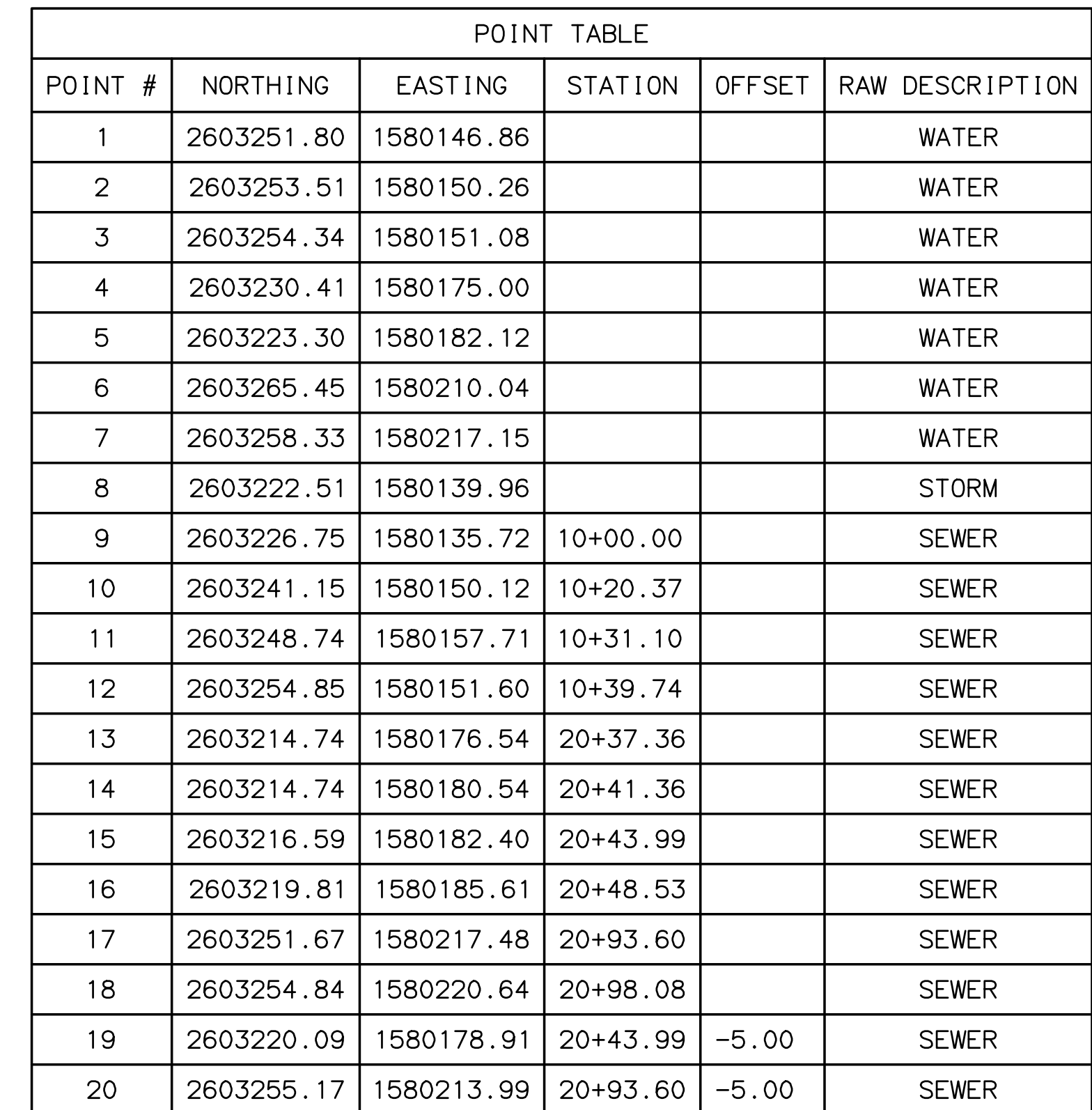
STATE OF ALASKA
49TH
Steven E. Lewis
CE 12814
1/6/2006
Registered Professional Engineer



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GRADING POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
WD11	2603222.51	1580139.96	24.53	RIM
WD12	2603220.09	1580178.91	25.12	RIM SP ELECT
WD13	2603223.30	1580182.12	25.18	RIM SP WATER
WD14	2603255.17	1580213.99	25.81	RIM SP ELECT
WD15	2603258.33	1580217.15	25.92	RIM SP WATER

[illegible]





- ## GRATE DETAIL

* CONTRACTOR TO VERIFY FINAL DIAMETER GRATE SHALL SIT FLUSH ON STEEL DECK RING.



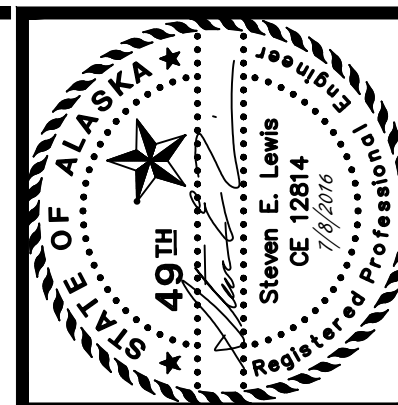
2 MANHOLE RIM DETAILS

Scale: NTS



Scale: NTS

- NOTES:
1. INSIDE DIAMETER OF BENT PERIMETER PLATE SHALL MATCH OUTSIDE DIAMETER OF STEEL DECK RING. CONTRACTOR TO VERIFY DIMENSIONS WITH DECK RINK MANUFACTURER PRIOR TO FABRICATION.
 2. THE DECK RINK SHALL BE PURCHASED FROM MANUFACTURER OF THE WATERTIGHT HATCH AS UN-GALVANIZED STEEL. THE DECK RING SHALL THEN BE WELDED TO THE CATCH BASIN RIM, AND THE ENTIRE RIM ASSEMBLY SHALL BE HOT-DIP GALVANIZED.



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SHEET NO:
23 OF 100

C4.3



- ## 1 OIL WATER SEPARATOR DETAIL

② ARCTIC PIPE DETAIL

② WASHDOWN PAD OPERATION SIGN

PLAN VIEW



WASHDOWN PAD SEWER CLEANOUT



- ## 5 PRECAST CONCRETE REDUCING SLAB



J:\RMA-14-01 Valdez Small Boat Harbor\Cad\Corvus-Sheets Valdez Harbor.dwg
Plotted 7/7/2016 9:55 AM by Stephanie Brown

PLANTING SCHEDULE

EVERGREEN TREES- SEE DETAIL: 3 L3.1 EVERGREEN TREE

QTY.	SYMBOL	LABEL	LATIN NAME	COMMON NAME	SIZE	FURNISHED	NOTES
11		PS	PICEA SITCHENSIS	SITKA SPRUCE	8' HT.	CG	

DECIDUOUS TREES- SEE DETAIL: 5 L3.1 DECIDUOUS TREE

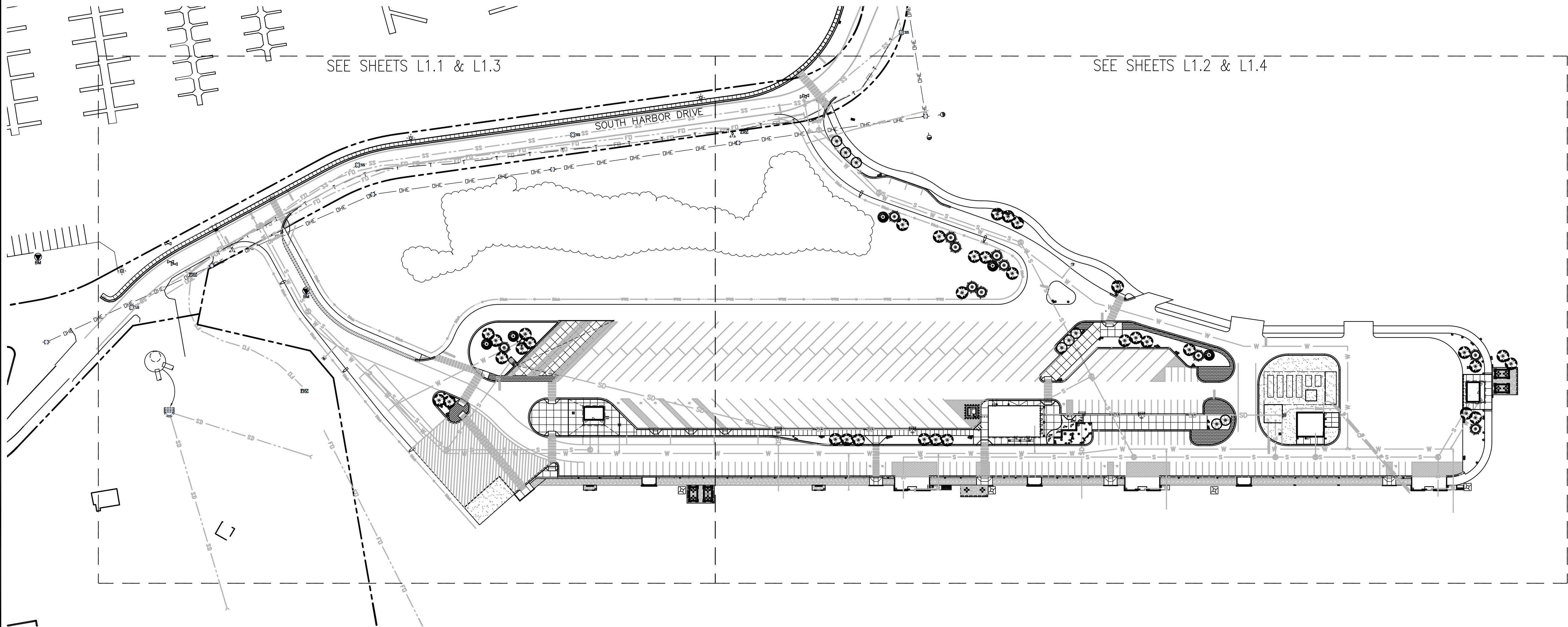
QTY.	SYMBOL	LABEL	LATIN NAME	COMMON NAME	SIZE	FURNISHED	NOTES
34		BU	BETULA PAPYRIFERA	PAPER BIRCH	2.5" CAL	CG	SINGLE STEM
8		PR	PRUNUS SUBHIRTELLA	HIGAN CHERRY	2" CAL	CG	
5		LS	LARIX DECIDUA	EUROPEAN LARCH	2" CAL	CG	

MISCELLANEOUS

20		BOULDER TYPE A	29		DECORATIVE FISH POLES	16		PLANTERS
60		BOULDER TYPE B	2		BENCH			
20		BOULDER TYPE C	6		INTERPRETIVE SIGN			
10		PICNIC TABLE	7		BIKE RACK			
1		FLAGPOLE	9		LITTER BIN			

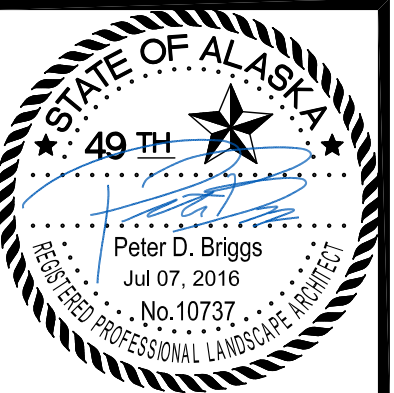
GENERAL NOTES:

- ALL PLANTS SHALL BE NURSERY GROWN TO ANSI Z60.1
- ALL DISTURBED AREAS NOT INDICATED ON PLANS ARE TO RECEIVE 4" DEPTH PLANTING SOIL AND SEED. SEE CIVIL FOR SEEDED AREAS.
- SPECIFICATION SECTIONS 05 50 00, 12 93 00, 32 90 00, 32 91 00, 32 93 00 AND 32 97 00 ARE A COMPONENT OF THE LANDSCAPE CONSTRUCTION DOCUMENTS. ALL LANDSCAPE WORK SHALL BE BASED ON THESE DRAWINGS IN COMBINATION WITH THE ABOVE REFERENCED SPECIFICATION SECTIONS. IF YOU DO NOT HAVE THESE SPECIFICATIONS, REQUEST THEM. SUBMITTAL OF BID SHALL BE RECOGNITION THAT SPECIFICATIONS HAVE BEEN RECEIVED.
- BOULDERS:
 - ARE OWNER-SUPPLIED AND WILL BE AVAILABLE TO THE CONTRACTOR AT THE FORMER SEA OTTER RV PARK PARCEL.
 - STAKE LOCATIONS OR OUTLINE AREAS TO RECEIVE BOULDERS AS INDICATED ON PLANS. ADJUST LOCATIONS WHEN REQUESTED AND OBTAIN ENGINEERS ACCEPTANCE OF LAYOUT BEFORE INSTALLING BOULDERS. MAKE MINOR ADJUSTMENTS AS REQUIRED.
 - SET BOULDERS ON OR INTO SUBGRADE AS INDICATED ON DRAWINGS AND ENSURE BOULDERS ARE STABLE AND WILL NOT MOVE. PLACE BOULDER USING NYLON SLINGS OR OTHER SUITABLE EQUIPMENT TO PREVENT MARRING OF THE BOULDERS BY EQUIPMENT. DO NOT DROP OR ROLL BOULDERS FROM EQUIPMENT.
 - ORIENT MOST AESTHETIC SIDE OF BOULDER UP DIRECTED TO ALLOW MAXIMUM VISIBILITY. BOULDERS SHALL BE PLACED AS TO PROVIDE MINIMUM OF EXPOSED ROUGH, FRACTURED, OR MARRED EDGES, OR AREAS PREVIOUSLY UNDERGROUND. MAKE MINOR ADJUSTMENTS AS REQUESTED BY ENGINEER.
 - PROTECT SURFACES OF BOULDER SET INTO OR ADJACENT TO CONCRETE PAVING OR WALLS TO REMAIN FREE OF CONCRETE SPLASHING OR STAINING.
 - DURING WORK, KEEP ADJACENT PAVING AND CONSTRUCTION CLEAN AND WORK AREA IN AN ORDERLY CONDITION.
 - PROTECT AREAS FROM DAMAGE DUE TO INSTALLATION OPERATIONS AND OPERATIONS OF OTHER CONTRACTORS AND TRADES.
 - REMOVE ALL MARKINGS FROM BOULDERS AND ANY STAINING THAT NEGATIVELY AFFECTS THE AESTHETICS OF THE BOULDER INCLUDING SOIL AND MINERAL STAINING AS REQUESTED BY ENGINEER.
 - REMOVE ANY CONCRETE, GROUT, MORTAR OR OTHER STAINING FROM BOULDERS PLACED IN CONCRETE PAVING OR FROM INSTALLATION OF OTHER WORK. USE STANDARD STRENGTH STONE AND MASONRY ACIDIC CLEANER FOR USE IN REMOVING GROUT, MORTAR AND CONCRETE WITHOUT DISCOLORING OR DAMAGING BOULDERS. PROTECT ADJACENT WORK INCLUDING PLANTS AND SOILS FROM ACIDIC CLEANERS.



1
L1.0
KEY PLAN
SCALE: 1"=80'-0" @ 22x34

0' 80' 160' 240'



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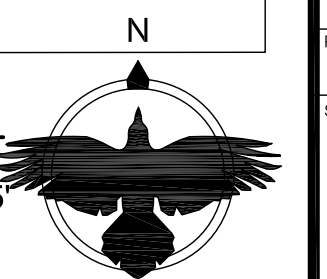
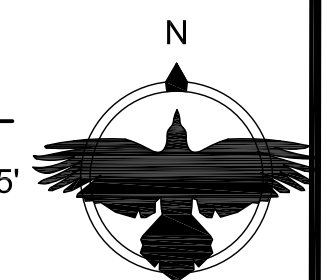
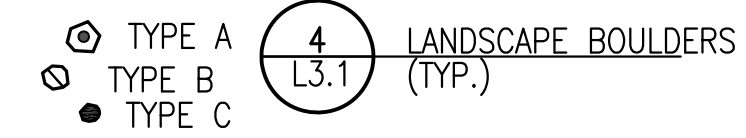
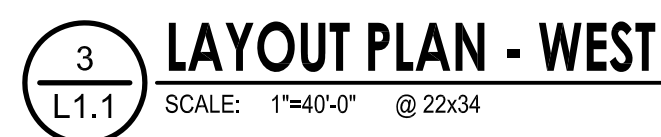
No.	Description	Date

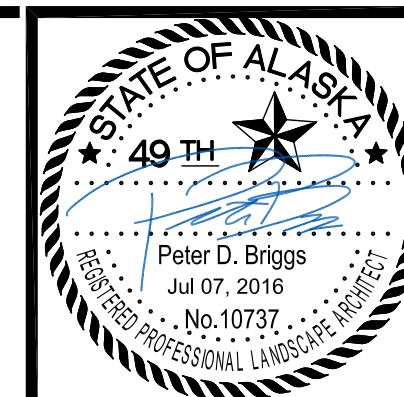
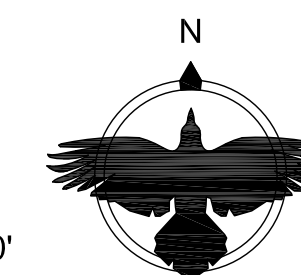
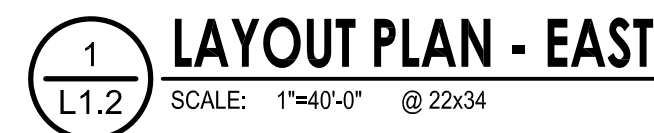
Drawn By: SB
Checked By: PB
Date: JULY 8, 2016
Phase: 100% DESIGN
Project No: 1894.01
SHEET TITLE:

KEY PLAN AND
SCHEDULE

SHEET NO:
27 OF 100

L1.0

[illegible]



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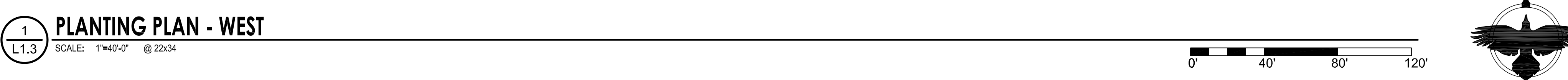
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Drawn By: SB	Checked By: PB
Date: JULY 8, 2016	
Phase: 100% DESIGN	
Project No: 1894.01	
SHEET TITLE: 	

LAYOUT PLAN
EAST

SHEET NO:
29 OF 100

L1.2



Symbol	Label	Latin Name	Common Name
	PS	PICEA SITCHENSIS	SITKA SPRUCE

Symbol	Label	Latin Name	Common Name
	BU	BETULA PAPYRIFERA	PAPER BIRCH
	PR	PRUNUS SUBHIRTALLA	HIGAN CHERRY
	LS	LARIX DECIDUA	EUROPEAN LARCH

1. CONTRACTOR TO EXCAVATE TREE PITS PER 3/L3.1 AND 7/L3.1 FOR INSTALLATION OF TREES WITHIN GRASSED AREAS.

[illegible]

Drawn By: SB	Checked By: PB
Date: JULY 8, 2016	
Phase: 100% DESIGN	
Project No: 1894.01	
SHEET TITLE:	

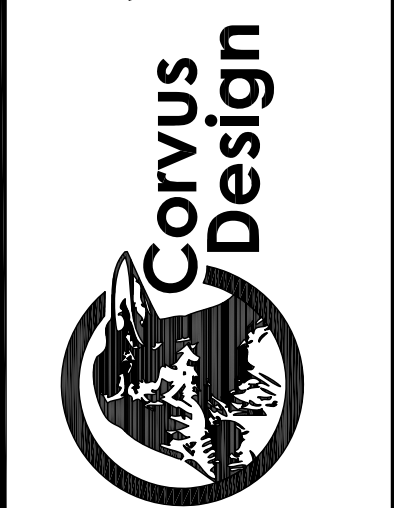
PLANTING
PLAN - WEST

SHEET NO:
30 OF 100

L1.3



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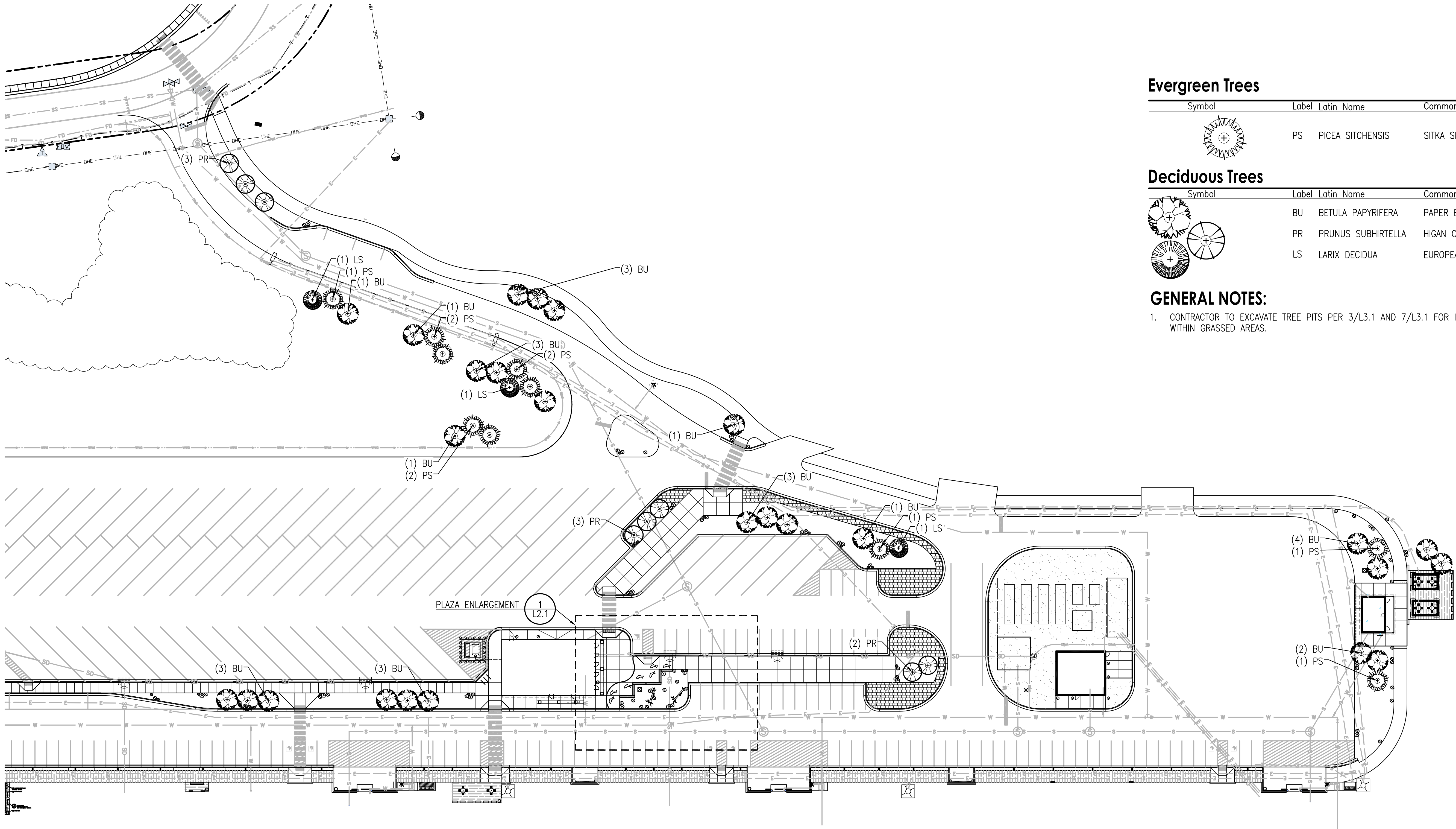


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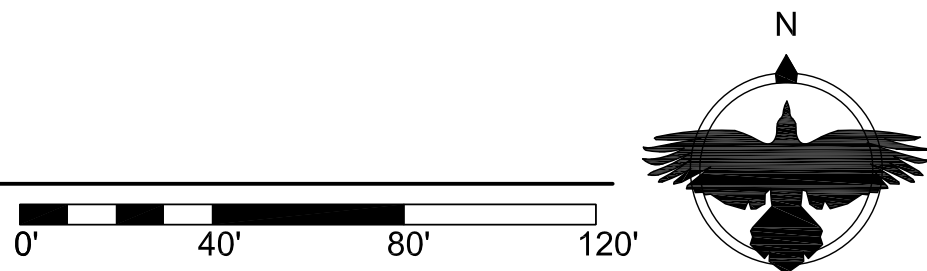


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Plotted 7/7/2016 9:56 AM by Stephanie Brown



1
L1.4
PLANTING PLAN - EAST
SCALE: 1"=40'-0" @ 22x34



Evergreen Trees

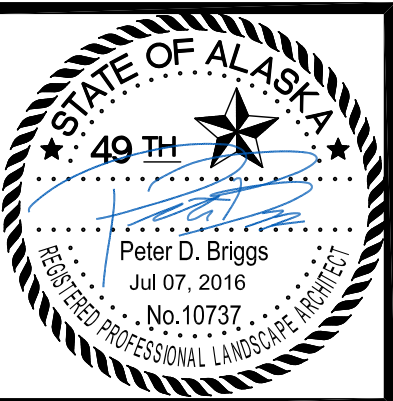
Symbol	Label	Latin Name	Common Name
	PS	PICEA SITCHENSIS	SITKA SPRUCE

Deciduous Trees

Symbol	Label	Latin Name	Common Name
	BU	BETULA PAPYRIFERA	PAPER BIRCH
	PR	PRUNUS SUBHIRTILLA	HIGAN CHERRY
	LS	LARIX DECIDUA	EUROPEAN LARCH

GENERAL NOTES:

- CONTRACTOR TO EXCAVATE TREE PITS PER 3/L3.1 AND 7/L3.1 FOR INSTALLATION OF TREES WITHIN GRASSED AREAS.



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No.	Description	Date

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Checked By: PB
Date: JULY 8, 2016
Phase: 100% DESIGN
Project No: 1894.01
SHEET TITLE:

PLANTING
PLAN - EAST

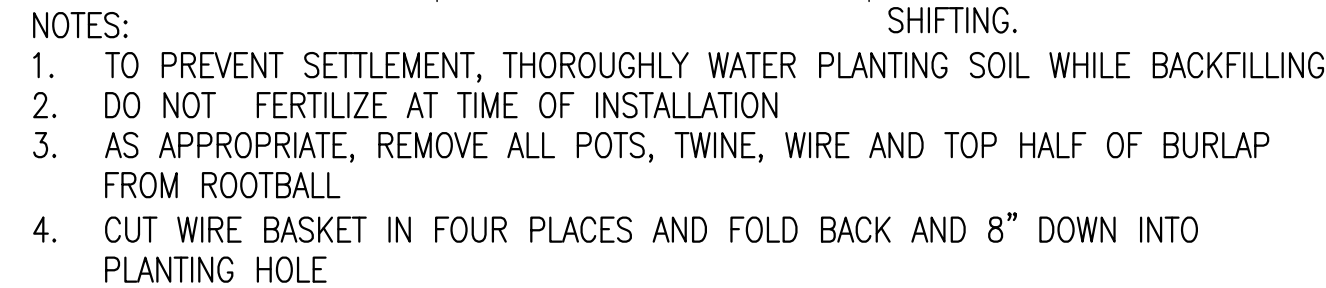
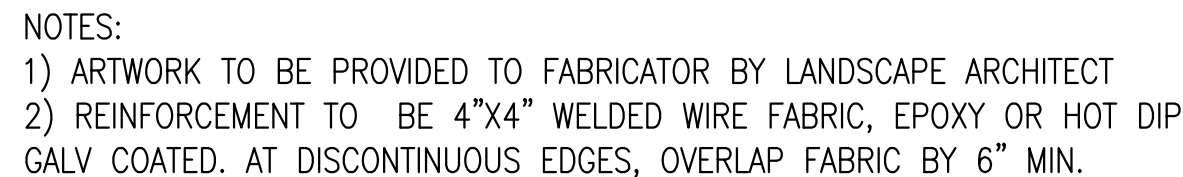
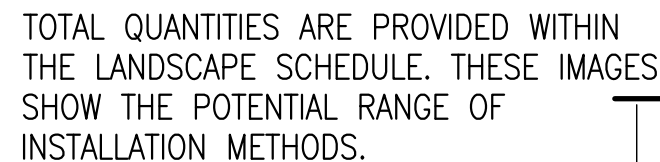
SHEET NO:
31 OF 100

L1.4



Drawn By: SB	Checked By: PB
JULY 8, 2016	
100% DESIGN	
Project No: 894.01	
PROJECT TITLE:	

L2.1



SCALE: NTS

SCALE: NTS

DEWOOD-DRIFT.DWG

	B	9 FT.	3	60	17
	C	6 FT.	2'	20	0

BOULDER SIZING AND PLACEMENT PER PLANS

NATIVE MATERIAL BACKFILL (WITH TOPSOIL AS PER PLANS)

MIN 1/3 TO MAX 1/2 BOULDER HEIGHT SHALL BE EXPOSED AS MEASURED ABOVE LOWEST ADJACENT GRADE TO HIGHPOINT OF BOULDER

PLACE OR FILL TO ENSURE NO GAPS BELOW SPRINGLINE

HORIZONTAL ORIENTATION

VERTICAL ORIENTATION

SUBGRADE

- NOTES:
1. LOCATION AND ORIENTATION OF PLACED ROCKS SHALL BE FIELD APPROVED BY OWNER'S REPRESENTATIVE.
 2. BOULDERS SHOULD BE NO HIGHER THAN 30" ABOVE ANY ADJACENT GRADE.
 3. CIRCUMFERENCE REFERS TO THE LARGEST CIRCUMFERENCE OF THE BOULDER.
 4. HEIGHT IS MEASURED PERPENDICULAR TO AXIS USED FOR DETERMINING CIRCUMFERENCE.

131

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

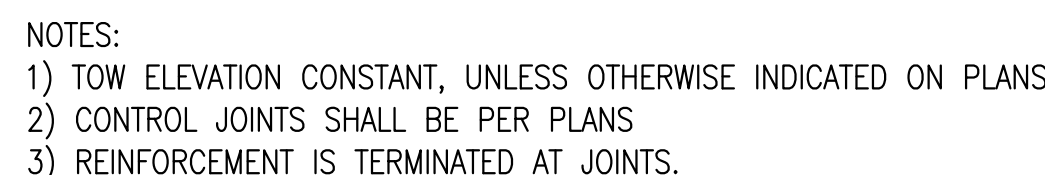
DT-BL DB-MULT-SCHED.DWG



124

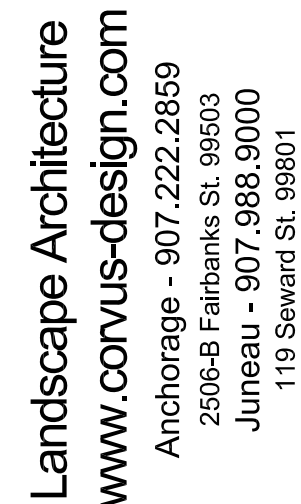
SCALE: 1/4"=1' 0"

DT SIGN DIRC DWG



0 1 0148 4102

DEWALL SEATING



Drawn By: SB	Checked By: PB
Date: JULY 8, 2016	
Phase: 100% DESIGN	
Project No: 1894.01	
SHEET TITLE:	

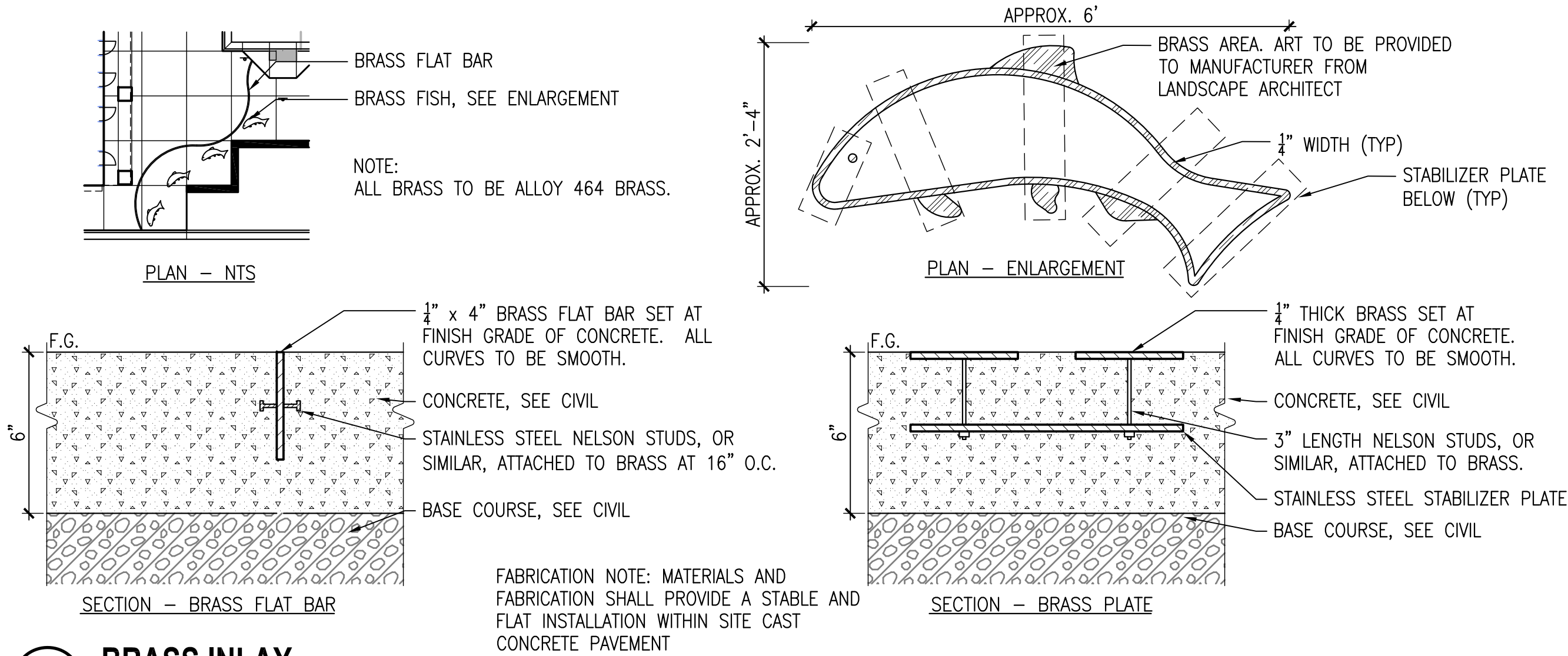
LANDSCAPE
DETAILS

SHEET NO:
33 OF 100

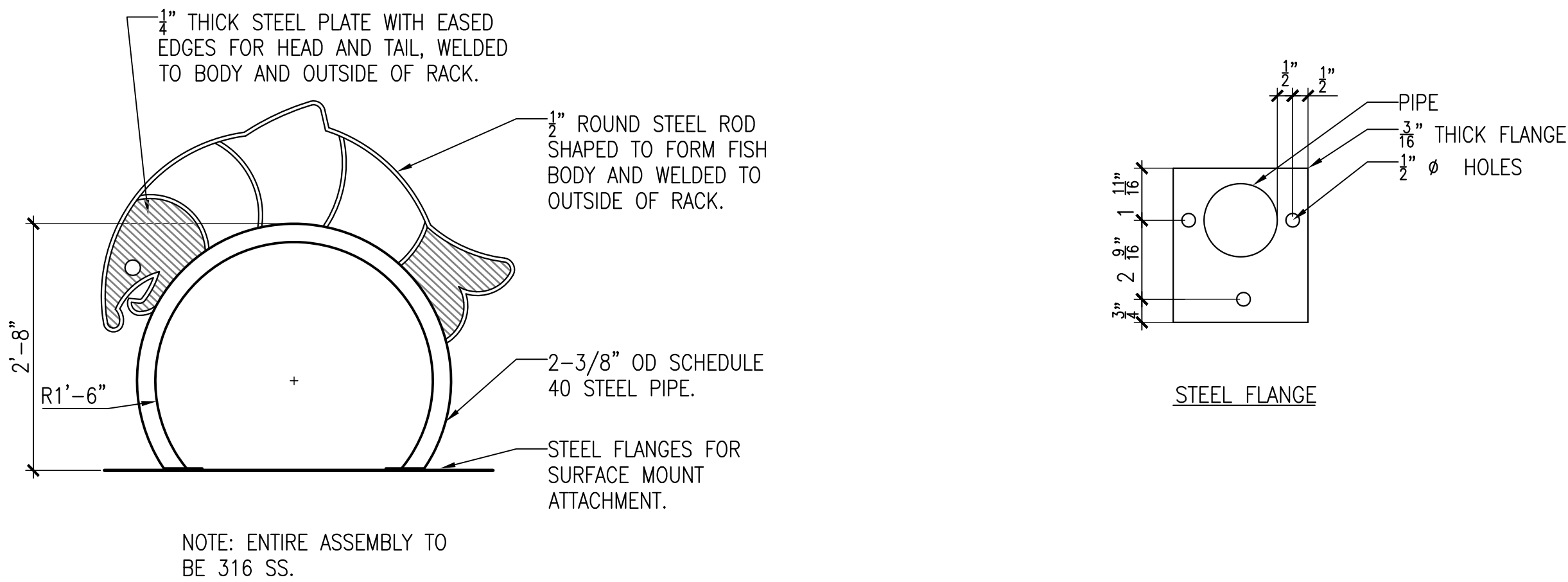
L3.1

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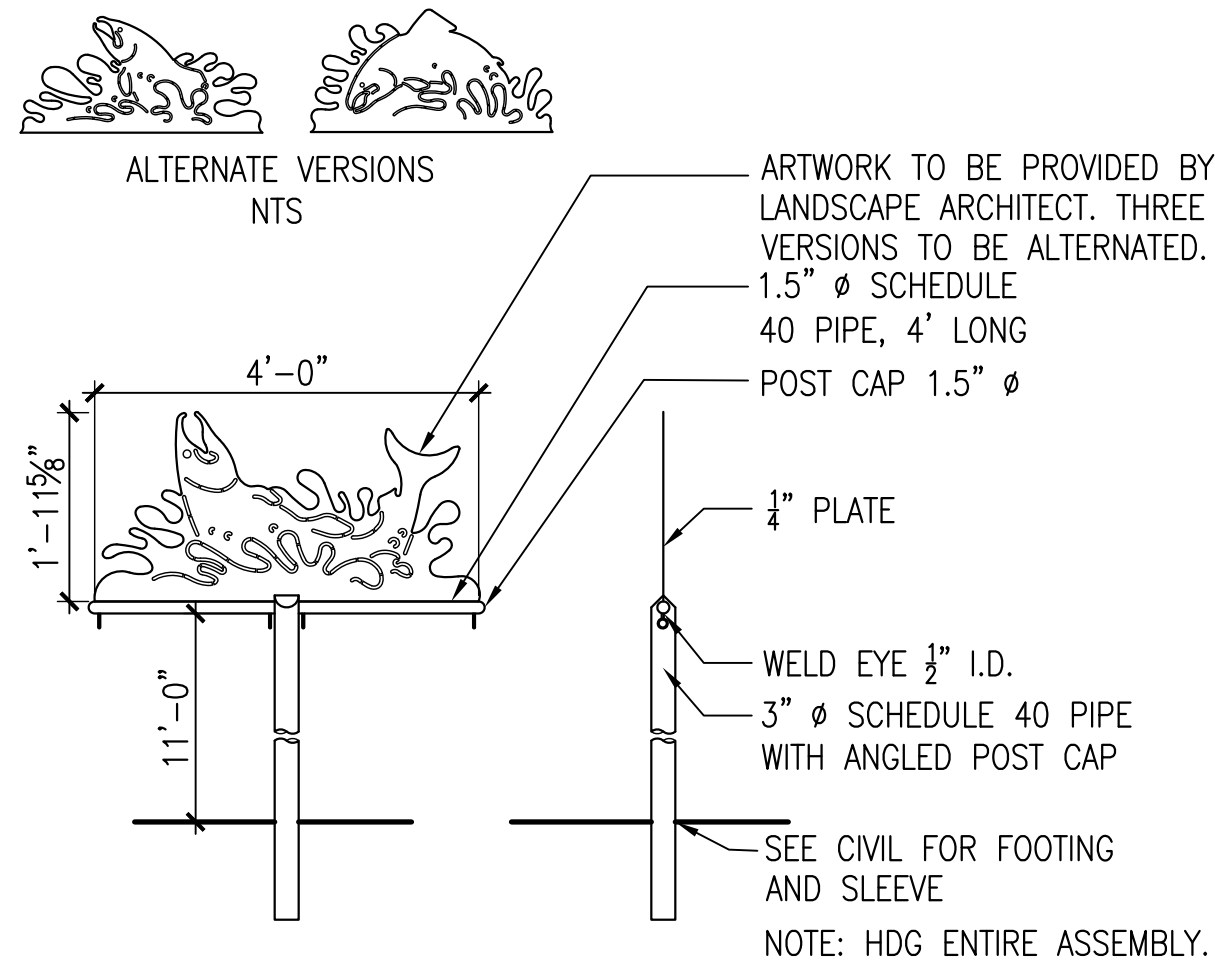
Plotted 7/7/2016 9:56 AM by Stephanie Brown



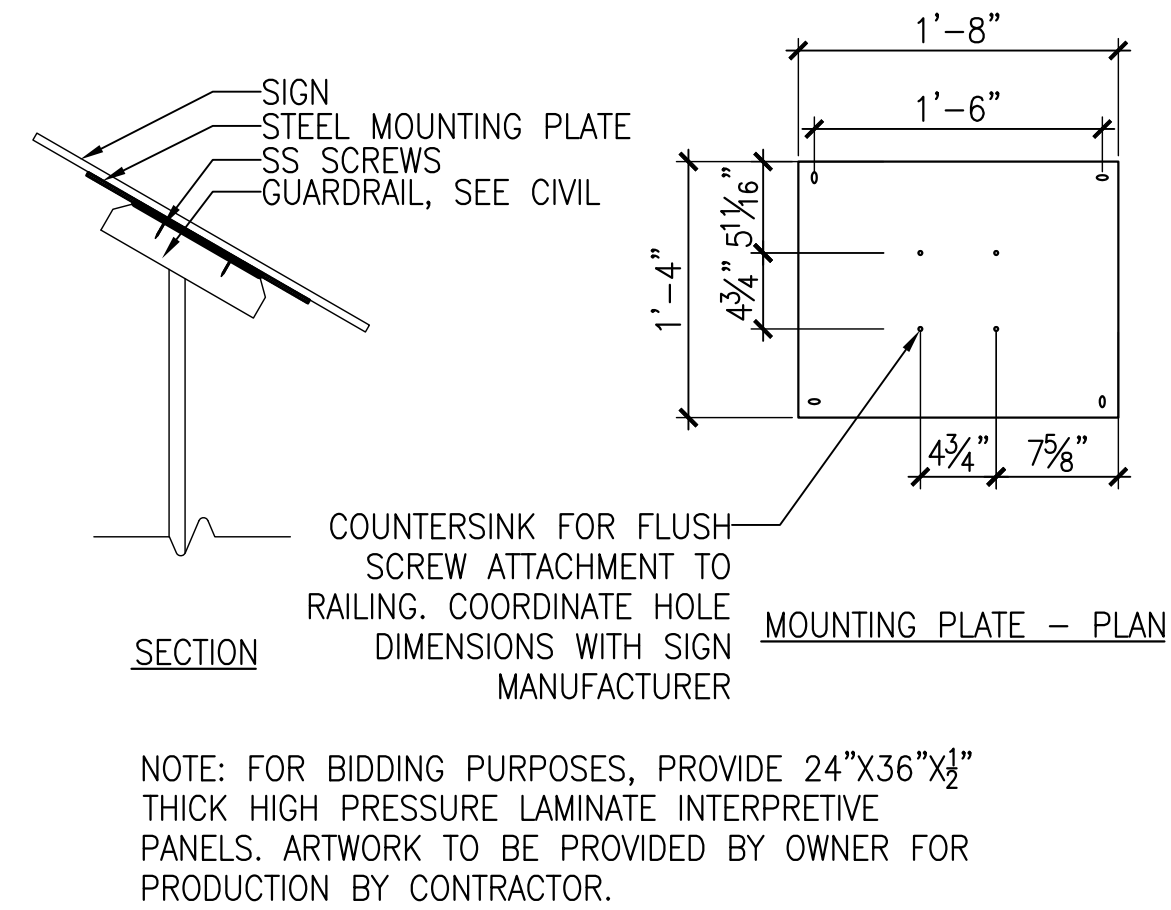
1
L3.2
BRASS INLAY
SCALE: 3/4"=1'-0"
DT-CONC-INLAY.DWG



4
L3.2
BIKE RACK
SCALE: 3/4"=1'-0"
DT-BIKE-RACK1.DWG



2
L3.2
DECORATIVE FISH POLE
SCALE: 1/2"=1'-0"
DT-POLE.DWG

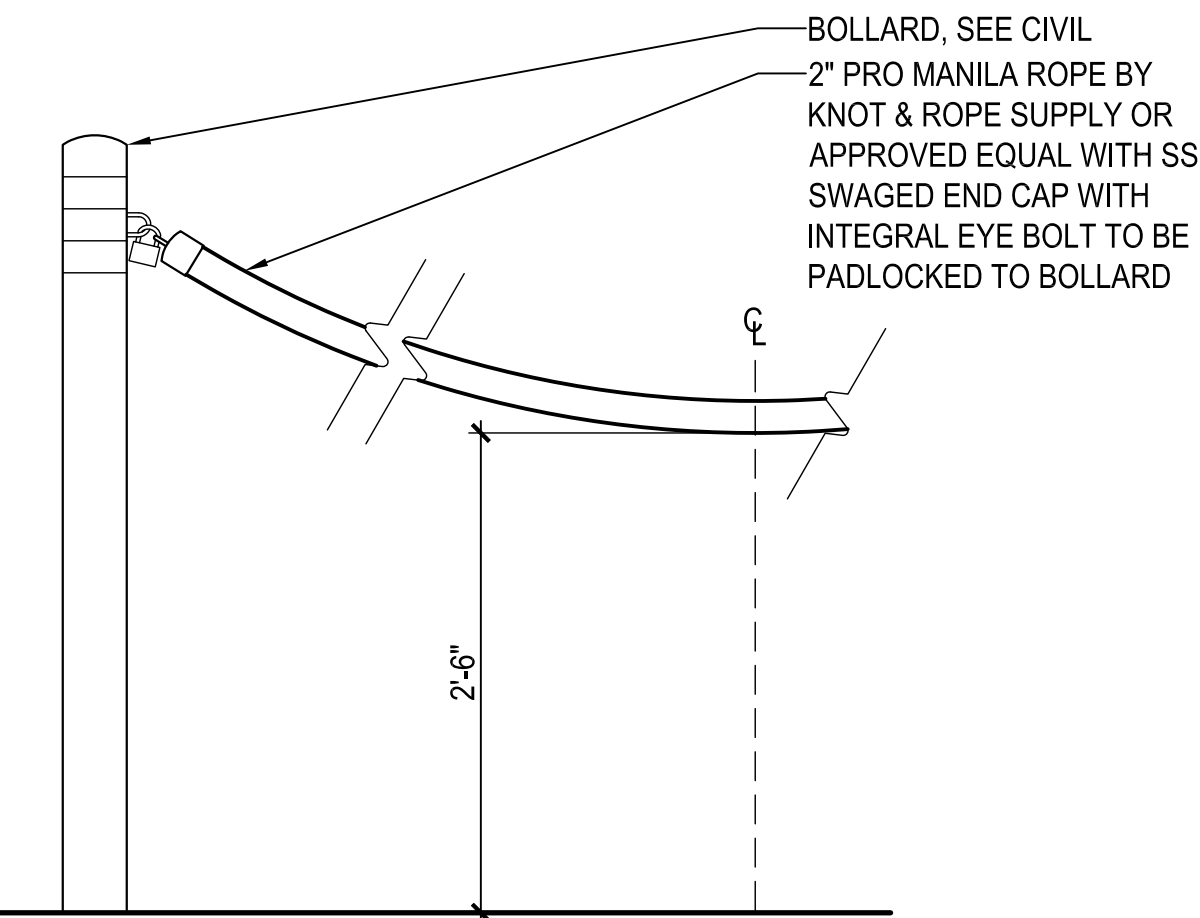


5
L3.2
Interpretive Signs
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dt-intp.dwg

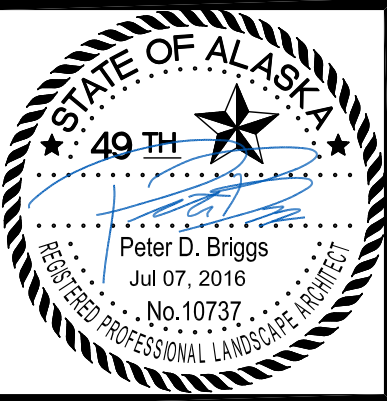


SEE SPECS FOR PRODUCT INFO
SEE CIVIL FOR FOOTING

3
L3.2
FLAGPOLE
SCALE: 1/2"=1'-0"
DT-FLAG.DWG



6
L3.2
Maintenance Area Rope
SCALE: 1"= 1'-0"
dt-boll.dwg



Landscape Architecture
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City of Valdez
HARBOR FACILITIES
UPLANDS FACILITIES



No.	Description	Date

Drawn By: SB	Checked By: PB
Date: JULY 8, 2016	
Phase: 100% DESIGN	
Project No: 1894.01	
SHEET TITLE:	

LANDSCAPE
DETAILS

SHEET NO:
34 OF 100

L3.2

REQUIRED INSPECTION OF STEEL CONSTRUCTION		
VERIFICATION & INSPECTION	FREQUENCY OF INSPECTION	REFERENCE
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:		
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	AISC 360 SECTION A3.3 & APPLICABLE ASTM STANDARDS
B. MANUFACTURER'S CERTIFICATE COMPLIANCE REQUIRED.	PERIODIC	
INSPECTION OF HIGH-STRENGTH BOLTING:		
A. SNUG-TIGHT JOINTS.	PERIODIC	AISC 360, SECTION M2.5 IBC 1704.3.3
B. PRETENSIONED AND SLIP- CRITICAL JOINTS USING TURN-OF- NUT WITH MATCHMARKING, TWIST- OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	CONTINUOUS	
C. PRETENSIONED AND SLIP- CRITICAL JOINTS USING TURN-OF- NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	PERIODIC	
MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:		
A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.	PERIODIC	AISC 360 SECTION M5.5
B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	APPLICABLE ASTM STANDARDS
MANUFACTURER'S CERTIFIED TEST REPORTS.	PERIODIC	
MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	AISC 360 SECTION A3.5 & APPLICABLE AWS A5 DOCS
MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	PERIODIC	
INSPECTION OF WELDING:		
A. STRUCTURAL STEEL AND COLD-FORMED STEEL		
1) COMPLETE & PARTIAL JOINT PENETRATION GROOVE WELDS. 2) MULTIPASS FILLET WELDS. 3) SINGLE-PASS FILLET WELDS > 5/16". 4) PLUG AND SLOT WELDS.	CONTINUOUS	AWS D1.1 IBC 1704.3.1
5) SINGLE-PASS FILLET WELDS <= 5/16"	PERIODIC	AWS D1.1 IBC 1704.3.1
6) FLOOR AND ROOF DECK WELDS.	PERIODIC	SWA D1.3
B. REINFORCING STEEL:		
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	PERIODIC	AWS D1.4 ACI 318: SECTION 3.5.2
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	CONTINUOUS	
3) SHEAR REINFORCEMENT.	CONTINUOUS	
4) OTHER REINFORCING STEEL.	PERIODIC	
INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:		
A. DETAILS SUCH AS BRACING AND STIFFENING.		IBC 1704.3.2
B. MEMBER LOCATIONS.		
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.		

REQUIRED INSPECTION OF CONCRETE CONSTRUCTION		
VERIFICATION & INSPECTION	FREQUENCY OF INSPECTION	REFERENCE
INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	PERIODIC	ACI 318: 3.5,7.1-7.7 IBC 1913.4
INSPECTION OF REINFORCING STEEL WELDING	SEE STEEL CONSTRUCTION INSPECTION TABLE	
INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO & DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	CONTINUOUS	ACI 318: 8.1.3,21.2.8 IBC 1911.5, 1912.1
INSPECTION OF ANCHORS INSTALLED INTO HARDENED CONCRETE.	PERIODIC	ACI 318: 3.8.6,8.1.3,21.2.8 IBC 1912.1
VERIFYING USE OF REQUIRED DESIGN MIX.	PERIODIC	
AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP & AIR CONTENT TESTS, & DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTMC 172 ASTMC 31 ACI 318: 5.6, 5.8 IBC 1913.10
INSPECTION OF CONCRETE & SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 5.9,5.10 IBC 1913.6, 1913.7, 1913.8
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 5.11-5.13 IBC 1913.9
ERECTION OF PRECAST CONCRETE MEMBERS.	N/A	ACI 318: CH. 16
VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 6.2
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 6.1.1

REQUIRED VERIFICATION & INSPECTION OF SOILS	
VERIFICATION & INSPECTION	FREQUENCY OF INSPECTION
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC

REQUIRED INSPECTION OF WIND RESISTING COMPONENTS	
VERIFICATION & INSPECTION	FREQUENCY OF INSPECTION
ROOF CLADDING	PERIODIC
WALL CLADDING	PERIODIC

REQUIRED INSPECTION OF WIND RESISTING COMPONENTS	
VERIFICATION & INSPECTION	FREQUENCY OF INSPECTION
ERECTION AND FASTENING OF EXTERIOR CLADDING 30 FEET OR MORE IN HEIGHT	PERIODIC
ERECTION & FASTENING OF INTERIOR & EXTERIOR NONBEARING WALLS 30 FEET OR MORE IN HEIGHT	PERIODIC
ERECTION & FASTENING OF INTERIOR & EXTERIOR VENEERS 30 FEET OR MORE IN HEIGHT	PERIODIC
STORAGE RACKS 8' OR GREATER IN HEIGHT	PERIODIC
ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS	PERIODIC
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC

AISC 341 APPENDIX Q QUALITY ASSURANCE PLAN

SEISMIC LOAD RESISTING SYSTEM

THE FOLLOWING ELEMENTS ARE PART OF THE DESIGNATED SEISMIC LOAD RESISTING SYSTEM AND ARE SUBJECT TO INSPECTION AND TESTING IN ACCORDANCE WITH THE ATTACHED SCHEDULES AND AISI 341:

- CONCRETE FOUNDATIONS
- PRE-ENGINEERED METAL BUILDING BRACED FRAMES
- PRE-ENGINEERED METAL BUILDING MOMENT FRAMES
- PRE-ENGINEERED METAL BUILDING COLLECTORS
- PRE-ENGINEERED METAL BUILDING ROOF X-BRACING

DEFINITIONS:
QUALITY CONTROL (QC) - CONTROLS AND INSPECTIONS IMPLEMENTED BY THE FABRICATOR OR ERECTOR TO ENSURE THAT THE MATERIAL PROVIDED AND WORK PERFORMED MEET THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS

QUALITY ASSURANCE (QA) - CONTROLS AND INSPECTIONS PROVIDED BY THE OWNER TO ENSURE THAT THE MATERIAL PROVIDED AND WORK PERFORMED MEET THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS

OBSERVE (O) - THE INSPECTOR SHALL OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS. WELDING OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS.

PERFORMANCE (P) - THESE INSPECTIONS SHALL BE PERFORMED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT SHALL BE PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN QC AND QA SO THAT THE INSPECTION FUNCTIONS NEED BE PERFORMED BY ONLY ONE PARTY. WHERE QA IS TO RELY UPON INSPECTION FUNCTIONS PERFORMED BY QC, THE APPROVAL OF THE ENGINEER OF RECORD AND THE AUTHORITY HAVING JURISDICTION IS REQUIRED.

DOCUMENT (D)- THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

INSPECTION POINTS AND FREQUENCIES: INSPECTION POINTS AND FREQUENCIES OF QUALITY CONTROL (QC) AND QUALITY ASSURANCE (QA) TASKS AND DOCUMENTATION FOR THE SEISMIC LOAD RESISTING SYSTEM (SLRS) SHALL BE AS PROVIDED IN THE FOLLOWING TABLES.

NONDESTRUCTIVE TESTING (NDT) OF WELDS: NONDESTRUCTIVE TESTING OF WELDS SHALL BE PERFORMED BY QUALITY ASSURANCE PERSONNEL.

1. PROCEDURES: ULTRASONIC TESTING SHALL BE PERFORMED BY QA ACCORDING TO THE PROCEDURES PRESCRIBED IN APP W, SECTION W4.1.
2. REQUIRED NDT: SEE AISC 341 APPENDIX Q FOR REQUIRED NDT INCLUDING:
CJP GROOVE WELD NDT: ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16 IN. THICK OR GREATER. ULTRASONIC TESTING IN MATERIALS LESS THAN 5/16 IN THICK IS NOT REQUIRED. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.
3. DOCUMENTATION: ALL NDT PERFORMED SHALL BE DOCUMENTED. FOR SHOP FABRICATION, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY LOCATION IN THE STRUCTURE, PIECE MARK, AND LOCATION IN THE PIECE.

AISC 341 – SEISMIC LOAD RESISTING SYSTEM HIGH STRENGTH BOLT INSPECTIONS				
INSPECTION TASKS PRIOR TO BOLTING	QC		QA	
	TASK	DOC.	TASK	DOC.
PROPER BOLTS SELECTED FOR THE JOINT DETAIL.	O	-	O	-
PROPER BOLTING PROCEDURE SELECTED FOR THE JOINT DETAIL.	O	-	O	-
CONNECTING ELEMENTS ARE FABRICATED PROPERLY, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEETS APPLICABLE REQUIREMENTS.	O	-	O	-
PRE-INSTALLATION VERIFICATION TESTING CONDUCTED FOR FASTER ASSEMBLIES AND METHODS USED.	P	D	O	D
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS.	O	-	-	O
INSPECTION TASKS DURING BOLTING	QC		QA	
	TASK	DOC.	TASK	DOC.
FASTENER ASSEMBLIES PLACED IN ALL HOLES & WASHERS (IF REQUIRED) ARE PROPERLY POSITIONED.	O	-	O	-
JOINT BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.	O	-	O	-
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	O	-	O	-
BOLTS ARE PRETENSIONED PROGRESSING SYSTEMATICALLY FROM MOST RIGID POINT TOWARD FREE EDGES	O	-	O	-
INSPECTION TASKS DURING BOLTING	QC		QA	
	TASK	DOC.	TASK	DOC.
DOCUMENT ACCEPTED AND REJECTED CONNECTIONS	P	D	P	D

AISC 341 – SEISMIC LOAD RESISTING SYSTEM HIGH WELDING INSPECTIONS				
VISUAL INSPECTION TASKS BEFORE WELDING	QC		QA	
	TASK	DOC.	TASK	DOC.
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	-	O	-
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) - JOINT PREPARATION - DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY & LOCATION) - BACKING TYPE & FIT (IF APPLICABLE)	P/O**	-	O	-
CONFIGURATION AND FINISH OF ACCESS HOLES	O	-	O	-
FIT-UP OF FILLET WELDS - DIMENSIONS (ALIGNMENT, GAPS AT ROOT) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY & LOCATION)	P/O**	-	O	-
** FOLLOWING PERFORMANCE OF THIS INSPECTION TASK FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING ADEQUATE UNDERSTANDING OF REQUIREMENTS AND POSSESSION OF SKILLS AND TOOLS TO VERIFY THESE ITEMS, THE PERFORM DESIGNATION OF THIS TASK SHALL BE REDUCED TO OBSERVE, AND THE WELDER SHALL PERFORM THIS TASK. SHOULD THE INSPECTOR DETERMINE THAT THE WELDER HAS DISCONTINUED ADEQUATE PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS REESTABLISHED ADEQUATE ASSURANCE THAT THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED.				
VISUAL INSPECTION TASKS DURING WELDING	QC		QA	
	TASK	DOC.	TASK	DOC.
WPS FOLLOWED - SETTINGS ON WELDING EQUIPMENT - TRAVEL SPEED - SELECTED WELDING MATERIALS - SHIELDING GAS TYPE/FLOW RATE - PREHEAT APPLIED - INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) - PROPER POSITION (F, V, H, OH) - INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED	O	-	O	-
USE OF QUALIFIED WELDERS	O	-	O	-
CONTROL & HANDLING OF WELDING CONSUMABLES - PACKAGING - EXPOSURE CONTROL	O	-	O	-
ENVIRONMENTAL CONDITIONS - WIND SPEED WITHIN LIMITS - PRECIPITATION AND TEMPERATURE	O	-	O	-
WELDING TECHNIQUES - INTERPASS AND FINAL CLEANING - EACH PASS WITHIN PROFILE LIMITATIONS - EACH PASS MEETS QUALITY REQUIREMENTS	O	-	O	-
NO WELDING OVER CRACKED TACKS	O	-	O	-
VISUAL INSPECTION TASKS AFTER WELDING	QC		QA	
	TASK	DOC.	TASK	DOC.
WELDS CLEANED	O	-	O	-
WELDER IDENTIFICATION LEGIBLE	O	-	O	-
VERIFY SIZE, LENGTH, AND LOCATION OF WELDS	O	-	O	-
VISUALLY INSPECT WELDS TO ACCEPTANCE CRITERIA - CRACK PROHIBITION - WELD/BASE-METAL FUSION - CRATER CROSS-SECTION - WELD PROFILES - WELD SIZE - UNDERCUT - POROSITY	P	D	P	D
PLACEMENT OF REINFORCEMENT FILLETS	P	D	P	D
BACKING BARS REMOVED AND WELD TABS REMOVED AND FINISHED (IF REQUIRED)	P	D	P	D
REPAIR ACTIVITIES	P	-	P	D



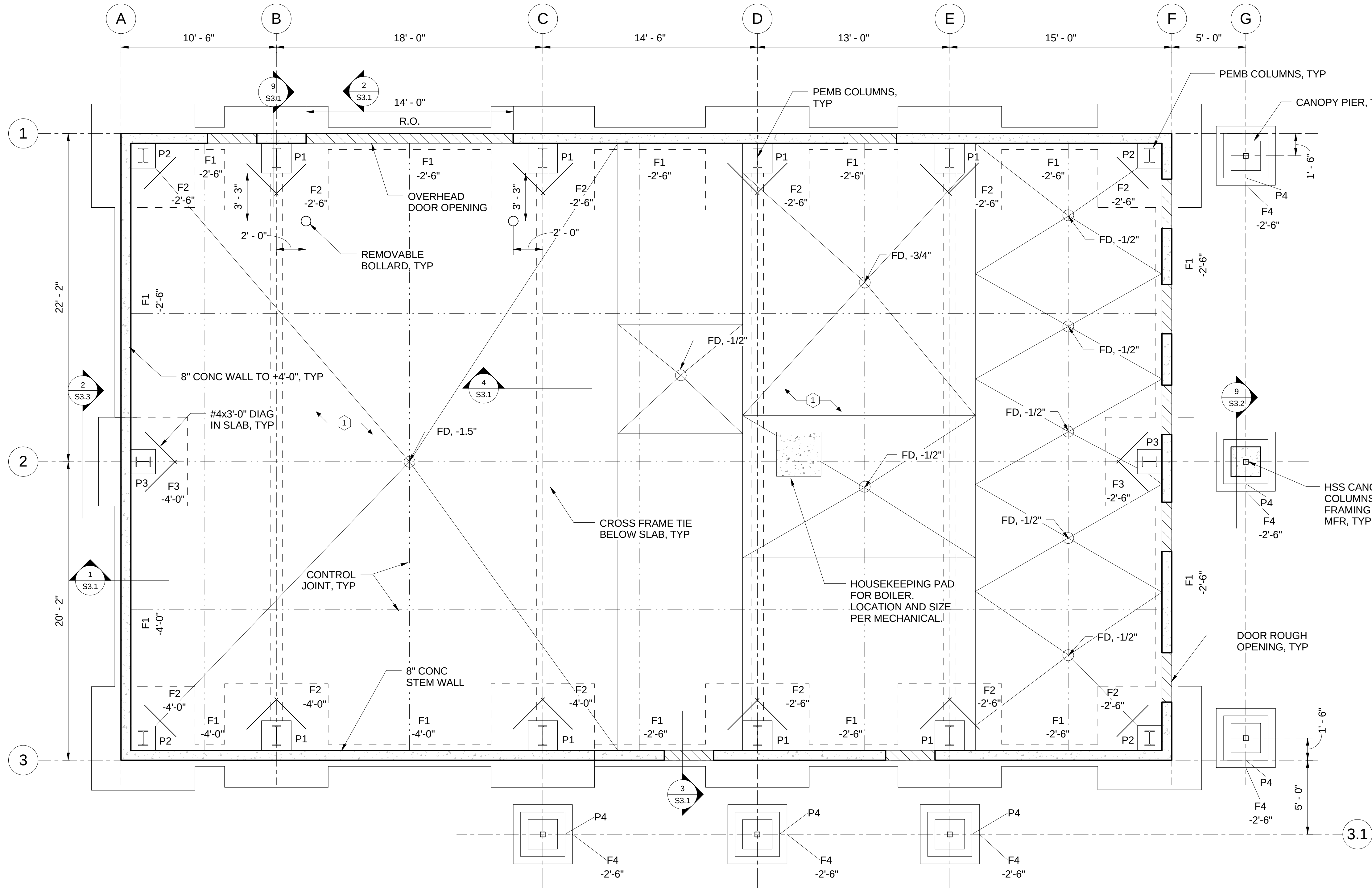
R&M CONSULTANTS, INC.

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City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

[illegible]



1 FOUNDATION AND SLAB PLAN
1/4" = 1'-0"

FOOTING SCHEDULE			
I.D.	SIZE	THICKNESS	REINFORCING
F1	18" X CONTINUOUS	12"	(2) #5 CONTINUOUS
F2	84" X 84"	12"	(8) #6 E.W. TOP AND BOT
F3	72" X 72"	12"	(7) #6 E.W. TOP AND BOT
F4	48" X 48"	12"	(5) #6 E.W. TOP AND BOT

CONCRETE SLAB SCHEDULE			
I.D.	SLAB TYPE	SLAB REINFORCING	CONCRETE COVER
1	6" Concrete	#5 @ 15" O.C. E.W.	2" FROM TOP

LEGEND

- FX FOUNDATION TYPE, SEE SCHEDULE
PX PIER TYPE, SHEET S3.2
FD FLOOR DRAIN
SLAB TYPE, SEE SCHEDULE

NOTES

- ELEVATIONS SHOWN ON THIS SHEET ARE TO BOTTOM OF FOOTING
- CONTINUOUS FOOTINGS ARE CENTERED LONGITUDINALLY ON FOUNDATION WALLS, UNO PIERS ARE CENTERED ON SPREAD FOOTINGS, UNO
- PIERS ARE CENTERED ON SPREAD FOOTINGS, UNO
- PEMB = PRE-ENGINEERED METAL BUILDING
- CROSS FRAME TIES SHALL NOT HAVE UTILITY PERFORATIONS. COORDINATE UTILITY INVERTS AND PIPE RUNS ACCORDINGLY.
- SLOPE CONCRETE SLAB TO FLOOR DRAINS. COORDINATE SLOPE LINES W/ INTERIOR WALL LOCATIONS. SEE ARCHITECTURAL.



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City of Valdez
**HARBOR DEVELOPMENT
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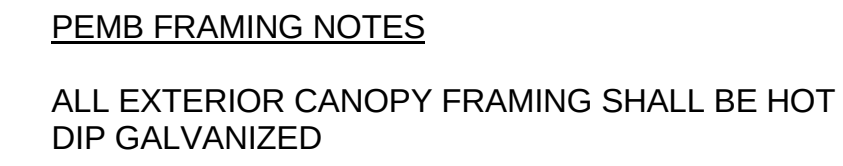
No.	Description	Date

Drawn By: PH
Checked By: JC, DA
Date: JULY 8, 2016
Phase: BID SET
Project No: 1894.01
SHEET TITLE:

WAREHOUSE BLDG
FOUNDATION PLAN

SHEET NO:
38 OF 100

S2.0



STATE OF ALASKA
49 TH
Duane H. Anderson
Duane H. Anderson
No. SE 14155
7-9-16
REGISTERED PROFESSIONAL ENGINEER



City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

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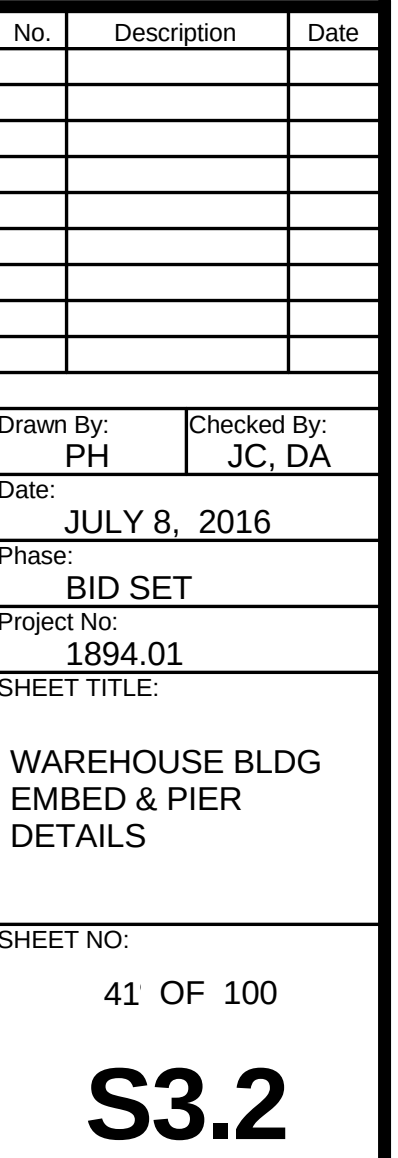
4 CROSS FRAME TIE



10 REINFORCING DETAILS

S3.1







[illegible]



	SHEARWALL HOLDOWN. SEE HOLDOWN SCHEDULE
	CONCRETE SLAB TYPE, SEE SLAB SCHEDULE
CWX	CONCRETE WALL TYPE, SEE CONCRETE WALL SCHEDULE
HX	HEADER TYPE, SEE HEADER SCHEDULE
SWX	SHEARWALL TYPE, SEE SHEATHING SCHEDULE
	SHEARWALL
	8" WIDE GAP IN SUMP PIT CONCRETE WALL

1. HOLDDOWNS BY SIMPSON STRONG-TIE COMPANY OR APPROVED EQUAL
2. SEE ANCHOR BOLT SCHEDULE FOR ANCHOR REQUIREMENTS
3. FOR HOLDDOWNS NOT IDENTIFIED IN PLAN OR DETAILS, PROVIDE HDU2 MINIMUM

1. USE 3X TREATED SILL PLATES, TYPICAL

1. MANUFACTURER DESIGNED TRUSS CONNECTION TO DOUBLE TOP PLATE FOR ALLOWABLE UPLIFT FORCE OF 1000 LB

HOLDDOWN SCHEDULE					
MARK	MODEL NO.	MIN WOOD MEMBER SIZE	WOOD MEMBER FASTENERS	ANCHOR BOLT DIA	MIN. EMBEDMENT
1	HDU2	(2) 2X	(6) SDS 1/4" X 2 1/2" SCREWS	5/8"	SEE ANCHOR BOLT SCHEDULE
2	HDU5	(2) 2X	(14) SDS 1/4" X2 1/2" SCREWS	5/8"	SEE ANCHOR BOLT SCHEDULE

HEADER SCHEDULE		
MARK	HEADER SIZE	HEADER SUPPORT FRAMING
H1	5 1/2" X 12" GLB	SINGLE 2X STUD
H2	5 1/2" X 16 1/2" GLB	DOUBLE 2X STUD

CONCRETE SLAB SCHEDULE			
MARK	THICKNESS	REINFORCING	TOP OF SLAB ELEV
1	0'-6"	6X6 W 2.9 X W 2.9 WELDED WIRE FABRIC	0' - 0"
2	0'-6"	#4 @ 12" O.C. EACH WAY	-1' - 8"

STRIP FOOTING SCHEDULE				
MARK	WIDTH	THICKNESS	REINFORCING	BOF ELEVATIONS
F1	2' - 0"	0' - 10"	(2) #5 CONTINUOUS	-2' - 2"

CONCRETE WALL SCHEDULE				
MARK	WALL TYPE	WALL THICKNESS	HORIZONTAL REINFORCING	VERTICAL REINFORCING
CW1	CONC STEM WALL	0' - 8"	#4 @ 12" O.C. WITH (2) #4 @ TOP OF WALL	#4 @ 16" O.C. WITH STD BEND INTO FOOTING
CW2	CONC SUMP PIT WALL	0' - 6"	#4 @ 12" O.C.	#4 @ 12" O.C. WITH STD BEND INTO SUMP PIT SLAB
CW3	CONC SUMP PIT WALL	0' - 8"	#4 @ 12" O.C.	#4 @ 12" O.C. WITH STD BEND INTO SUMP PIT SLAB

[illegible]

Drawn By: PH	Checked By: JC, DA
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Date: JULY 8, 2016

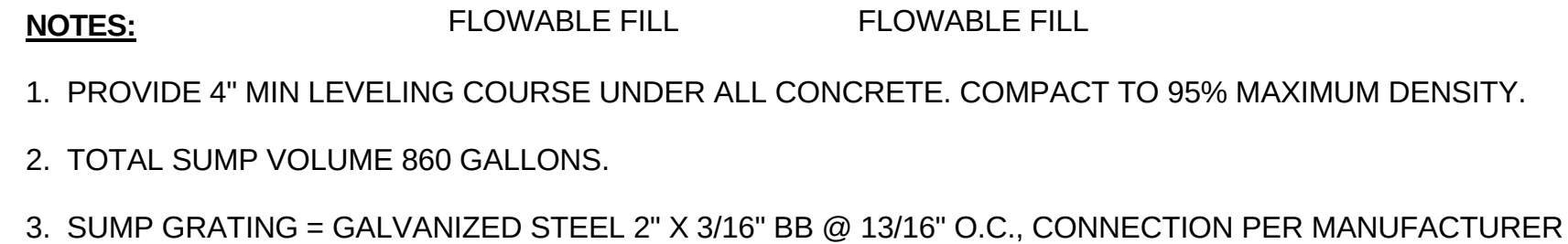
Phase:	BID SET
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Project No:	1894.01
SHEET TITLE:	

BILGE TREATMENT
BUILDING
FOUNDATION &
FRAMING PLANS

SHEET NO:
45 OF 100

S4.2



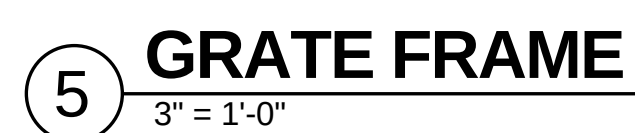
① $1/2'' = 1'-0''$



(2) $1/2'' = 1'-0''$



3 $1\frac{1}{2}" = 1'-0"$



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City of Valdez
HARBOR DEVELOPMENT
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Drawn By: PH	Checked By: JC, DA
Date: JULY 8, 2016	
Phase: BID SET	
Project No: 1894.01	
SHEET TITLE: BILGE TREATMENT BUILDING FOUNDATION DETAILS	

SHEET NO:
46 OF 100

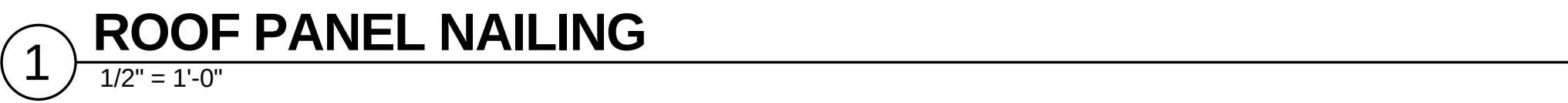
S4.3



2. ANCHOR BOLTS MAY BE HEADED BOLTS OR ALL-THREADED ROD WITH NUT. USE ASTM A307 OR F1554 GR 36, HOT DIP GALVANIZED.

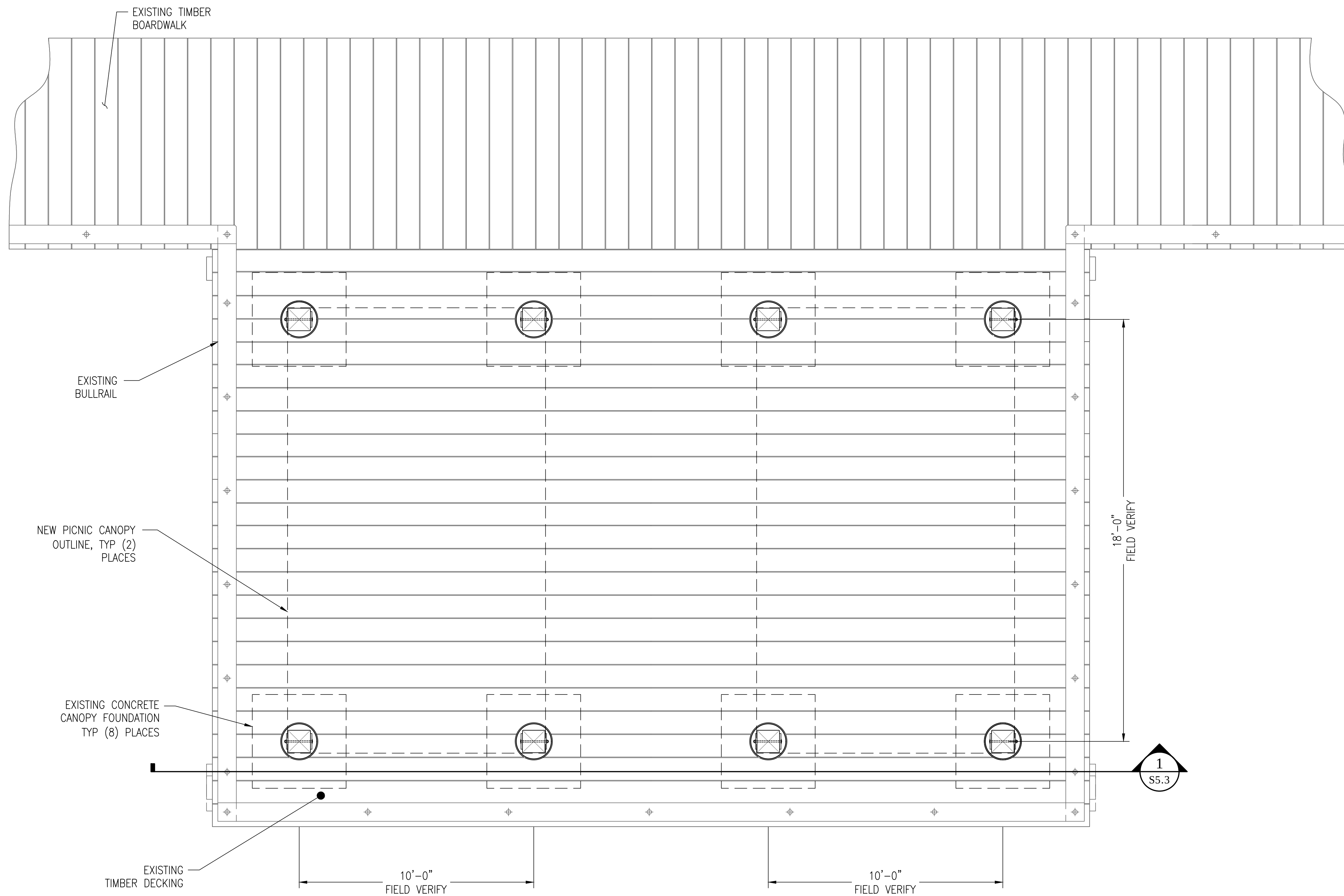
3. (2) - 2"x2"x3/16" PLATE WASHERS.

SHEET NO:
47 OF 100

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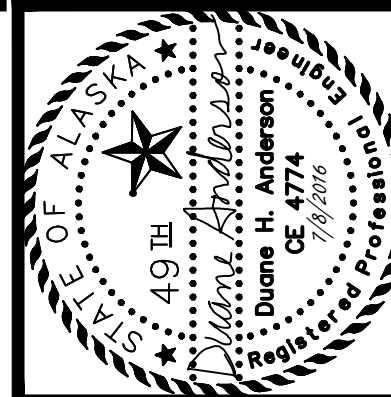


\$5.0



1 PICNIC CANOPY FOUNDATION PLAN - WEST

Scale: 3/8"=1'

[illegible]

Drawn By: SL	Checked By: KN, DP
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Date: JULY 8, 2016

Phase

BID SET

Project No: 1894.01

SHEET TITLE:

PICNIC CANOPY
FOUNDATION - WEST

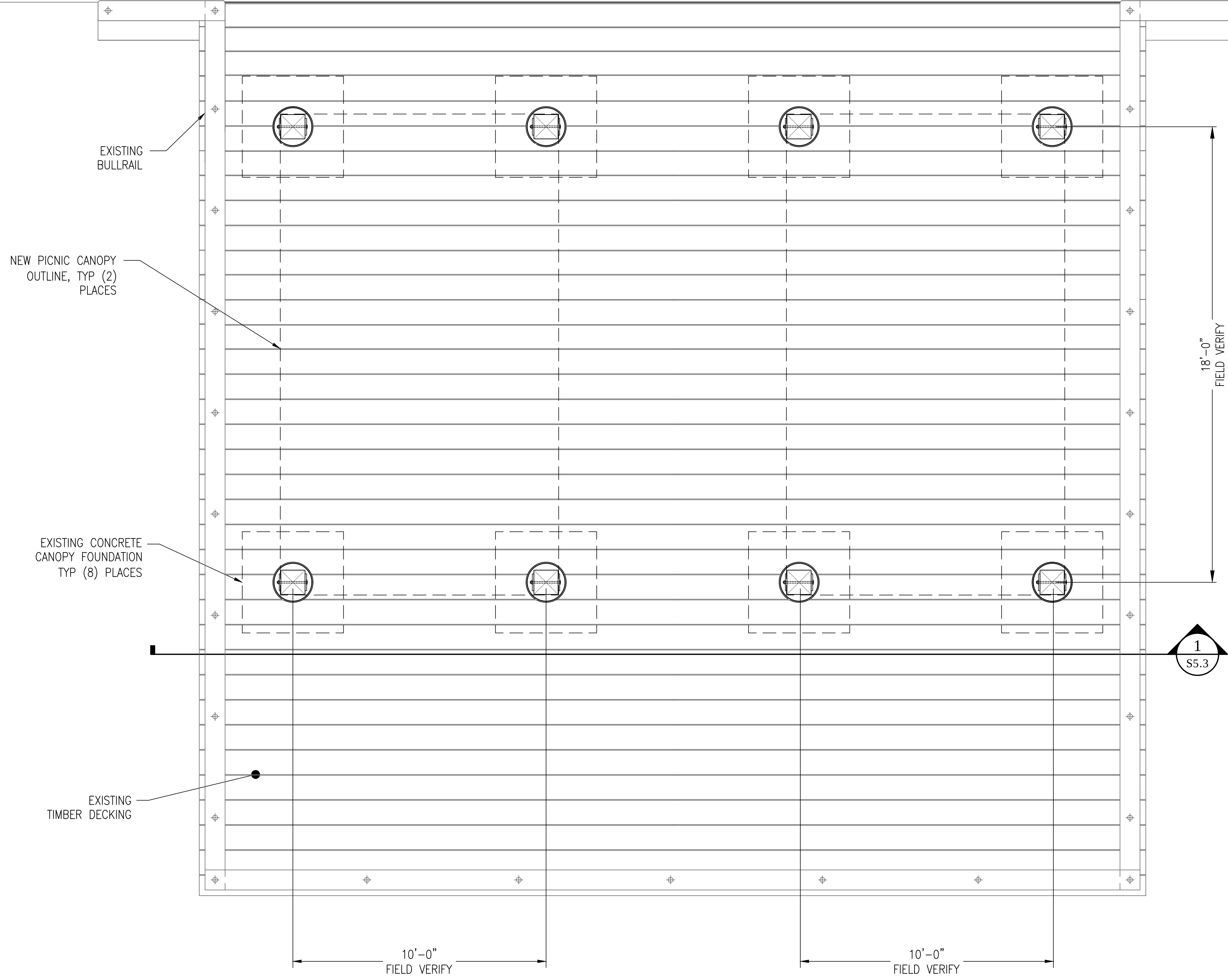
SHEET NO:

50 OF 100

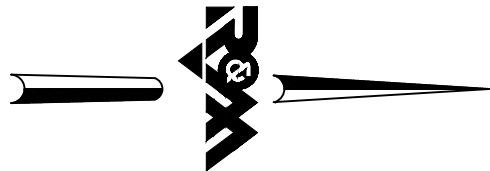
S5.1

Z:\project\1894.01 City Of Valdez Harbor Facilities\Civil\ACAD\Uplands Facilities\1894.01--S5.X Picnic Canopy Foundation.dwg

Plotted 7/12/2016 7:55 AM by Josh Zellmer



1 PICNIC CANOPY FOUNDATION PLAN - EAST
Scale: 3/8"=1'

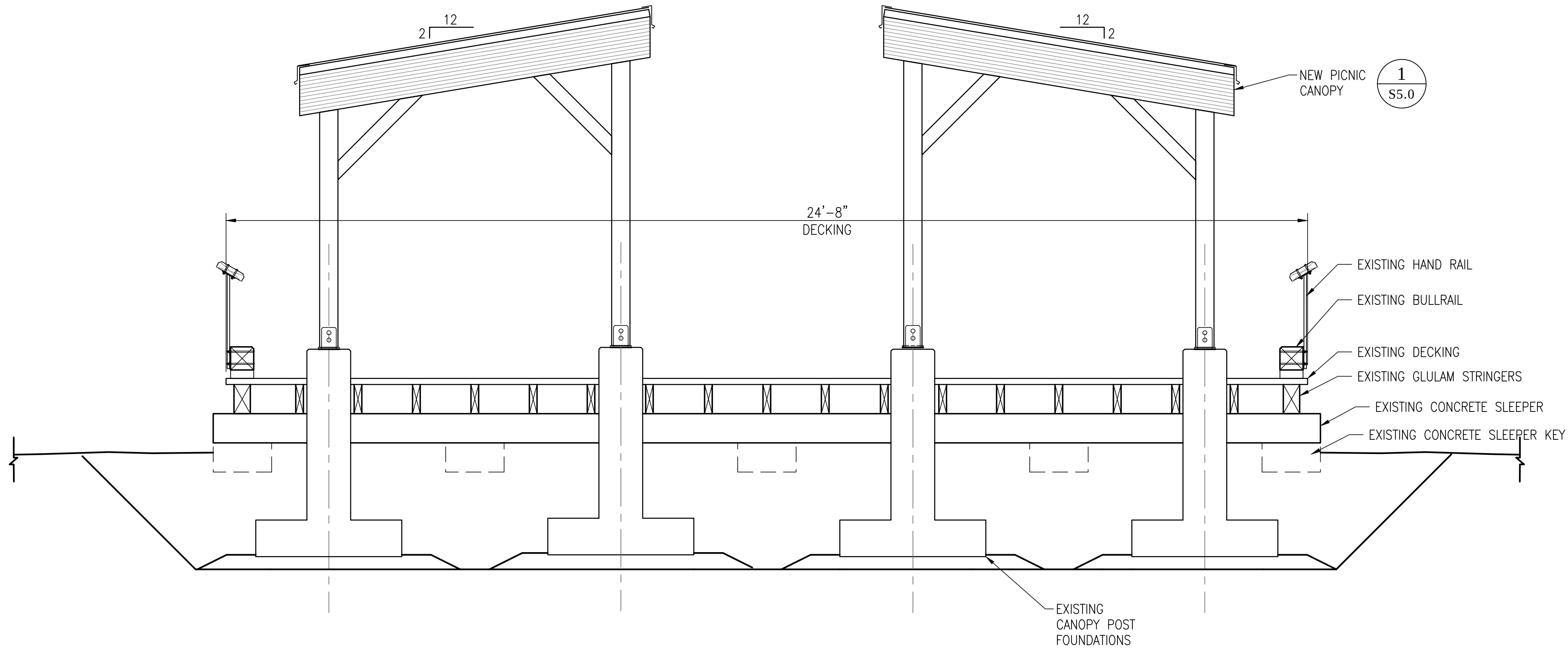


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Anchorage, Alaska 99507
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phone: 907.522.1707 • fax: 907.522.3403

City of Valdez
**HARBOR DEVELOPMENT
UPLAND FACILITIES**

No.	Description	Date
Drawn By: SL		Checked By: KN, DP
Date: JULY 8, 2016		
Phase: BID SET		
Project No: 1894.01		
SHEET TITLE: PICNIC CANOPY FOUNDATION - EAST		
SHEET NO: 51 OF 100		
S5.2		

Plotted 7/12/2016 7:54 AM by Josh Zellmer Z:\project\1894.01 City Of Valdez Harbor Facilities\Civil\ACAD\Uplands Facilities\1894.01--S5.3 Picnic Canopy Elevation.dwg



1 EAST AND WEST PICNIC CANOPY ELEVATION
Scale: 3/8" = 1'-0"

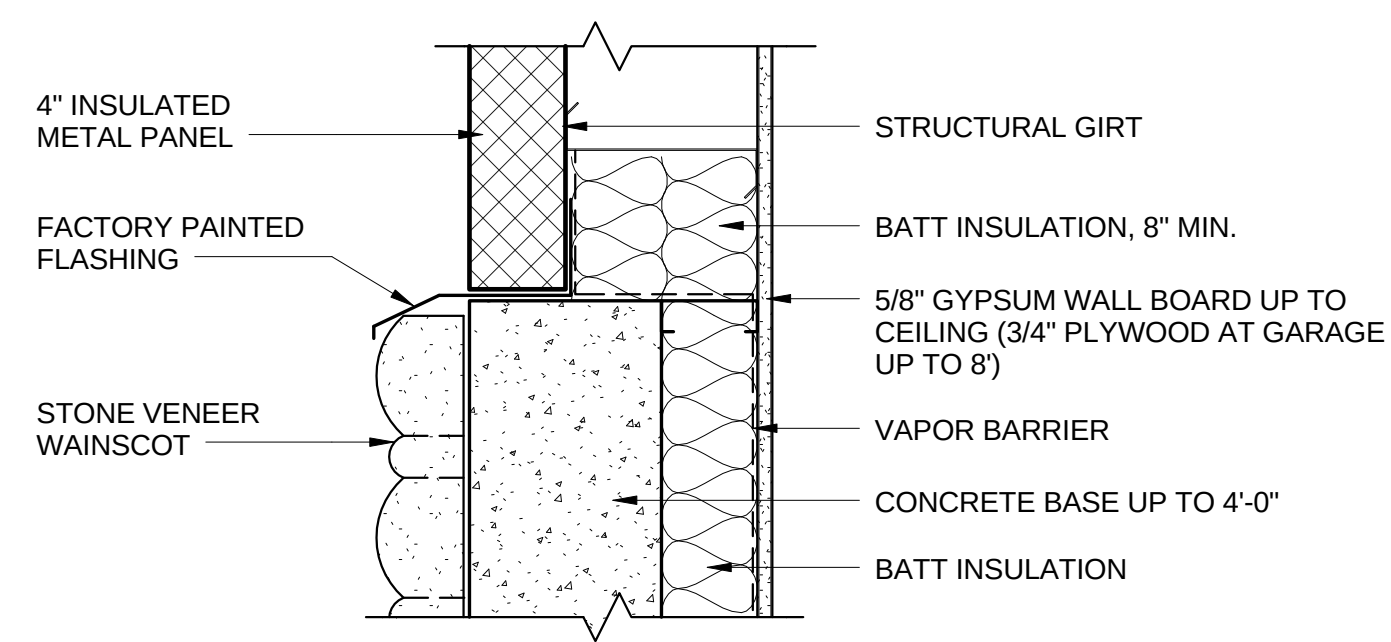


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City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

No.	Description	Date
Drawn By: SL		Checked By: KN, DP
Date: JULY 8, 2016		
Phase: BID SET		
Project No: 1894.01		
SHEET TITLE: PICNIC CANOPY ELEVATION		
SHEET NO: 52 OF 100		
S5.3		

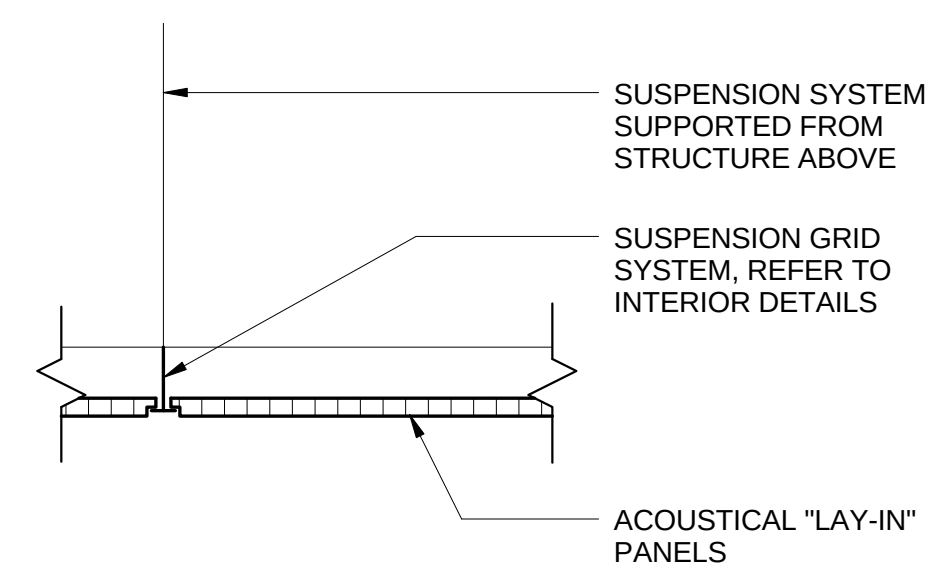
STATE OF ALASKA
19th



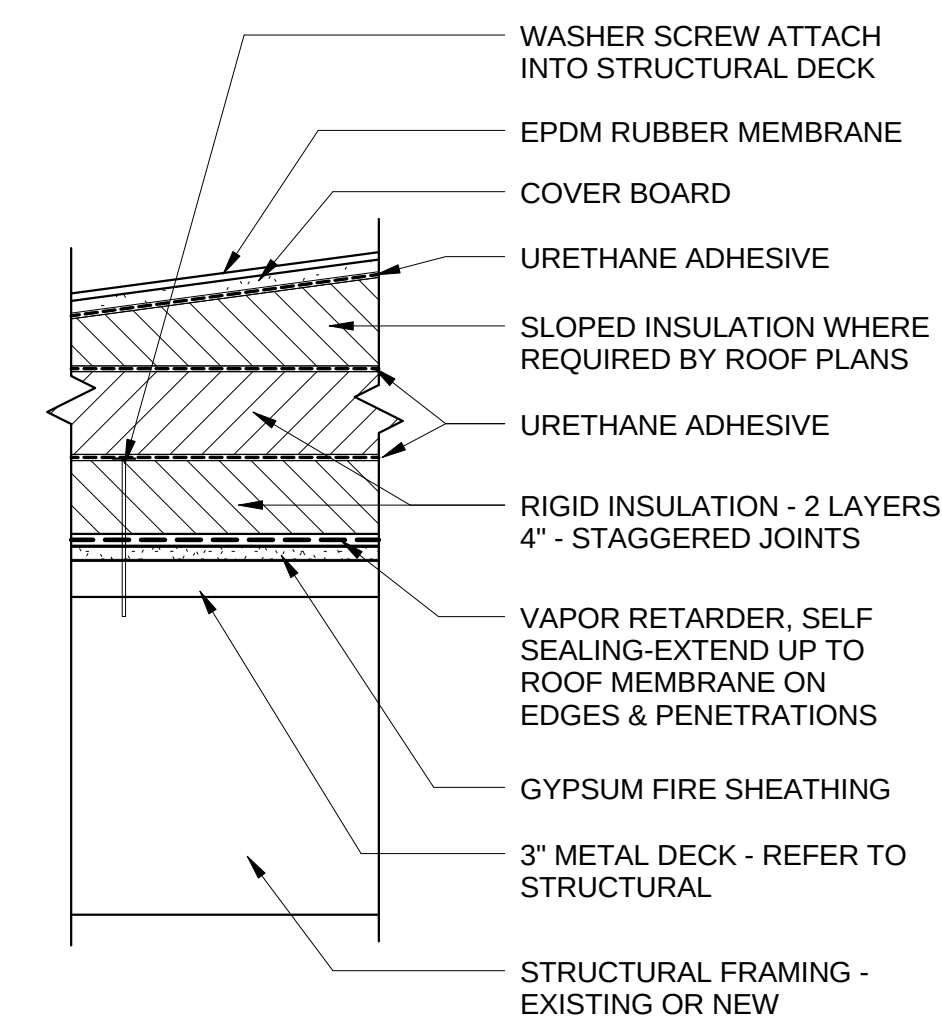
C EXTERIOR WALL

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2 ACOUSTICAL CEILING SYSTEM

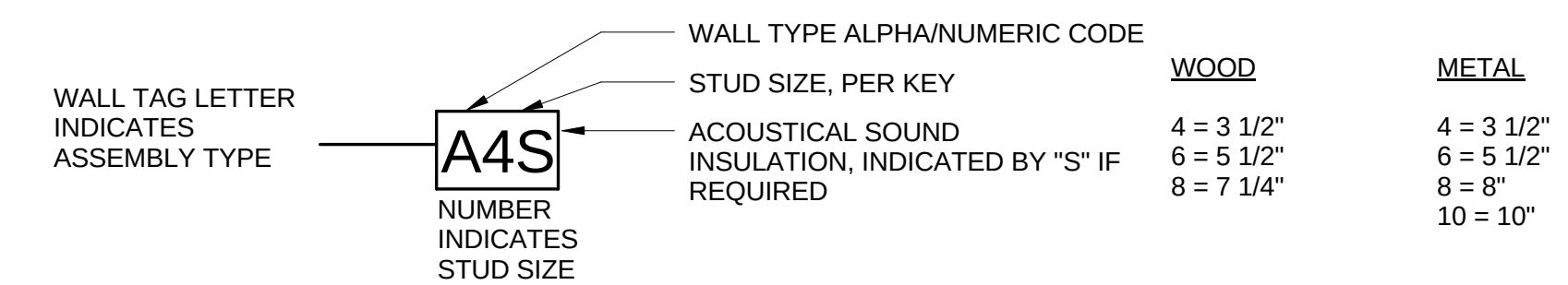


4 ROOF ASSEMBLY

ADHERED MEMBRANE ROOF SYSTEM
R = 36 MINIMUM
1 - HOUR PER GA FILE NO FC 4508

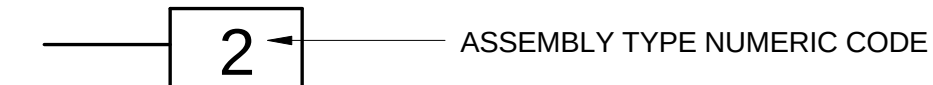
City of Valdez
HARBOR DEVELOPMENT
UPLANDS FACILITIES

STUD KEY SIZE



- 1) ALL WALL FRAMING AND GWB CONTINUE TO BOTTOM OF ROOF DECK ABOVE UNLESS OTHERWISE NOTED
- 2) ALL DIMENSIONS ARE TO FACE OF STUD OR CONCRETE UNLESS OTHERWISE NOTED. DIMENSIONING POINTS ARE TO THE MAIN WALL MEMBER AND NOT TO THE FACE OF ANY FURRING SHOWN ON THE WALL TYPES.
- 3) FINISH MATERIAL SUCH AS CERAMIC TILE, WALL COVERINGS, ETC. ARE NOT TYPICALLY SHOWN AS AN INTEGRAL PART OF THE ASSEMBLY. REFER TO FINISH SCHEDULES AND INTERIOR ELEVATIONS FOR ADDITIONAL FINISH REQUIREMENTS
- 4) PROVIDE FIRE RESISTANT RATED 5/8" CEMENT BOARD IN LIEU OF GYPSUM BOARD AS SUBSTRATE TO ALL WALLS WITH INTERIOR CERAMIC TILE FINISH; REFER TO FINISH SCHEDULE FOR LOCATIONS.
- 5) STUD SIZES TYPICALLY THROUGHOUT THE PROJECT ARE SHOWN WITH EACH ASSEMBLY TYPE.
- 6) REFER TO STRUCTURAL DRAWINGS FOR SIZE AND SPACING OF STRUCTURAL STUDS
- 7) STRUCTURAL FIRE PROTECTION OF SOME ASSEMBLIES AS NOTED IS ACHIEVED BY CALCULATION BASED ON IBC TABLES 721.6.2(1) AND 721.6.2(2)
- 8) FIRE RATING OF ASSEMBLIES AS REQUIRED FOR STRUCTURAL PROTECTION ONLY; REFER TO CODE PLANS FOR FIRE RATED ASSEMBLIES REQUIRING PENETRATION FIRE SEALANTS

HORIZONTAL ASSEMBLY TAG SYMBOL:



- 1) STRUCTURAL FIRE PROTECTION OF SOME ASSEMBLIES AS NOTED IS ACHIEVED BY CALCULATION BASED ON IBC TABLES 721.6.2(1) AND 721.6.2(2)
- 2) FIRE RATING OF ASSEMBLIES AS REQUIRED FOR STRUCTURAL PROTECTION ONLY; REFER TO CODE PLANS AND REFLECTED CEILING PLANS FOR FIRE RATED ASSEMBLIES REQUIRING PENETRATION FIRE SEALANTS

[illegible]

Drawn By: NMH	Checked By: JEM
Date: JULY 8, 2016	
Phase: BID SET	
Project No: 2014042	
SHEET TITLE:	

WAREHOUSE - HORIZONTAL AND VERTICAL ASSEMBLIES

SHEET NO:

54 of 100

A2



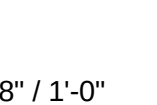
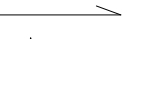
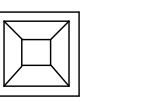
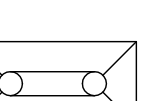
0' 2' 4' 8'

22X34 SHEET 1/4" = 1'-0"

11X17 SHEET 1/8" = 1'-0"

1. NONE.

ROOF LEGEND

- | | |
|---|---|
|  | <p>SHEET NOTES CALLOUT</p> <p>ROOF SLOPE ARROW; INDICATES DIRECTION OF SLOPE & RISE OVER RUN</p> |
|  | <p>MECHANICAL HOOD AND CURB</p> |
|  | <p>ROOF DRAIN AND OVERFLOW; REFER TO MECHANICAL</p> |
|  | <p>SLOPED INSULATION - ARROW INDICATES DIRECTION OF SLOPE - 1/4" PER FOOT MINIMUM TO PROVIDE POSITIVE SLOPE TO DRAIN</p> |

WAREHOUSE SHEET NOTES

- | | |
|---|----------------------------|
| 7 | ROOF DRAIN, REF MECHANICAL |
| 8 | EXTERIOR CANOPY |

[illegible]

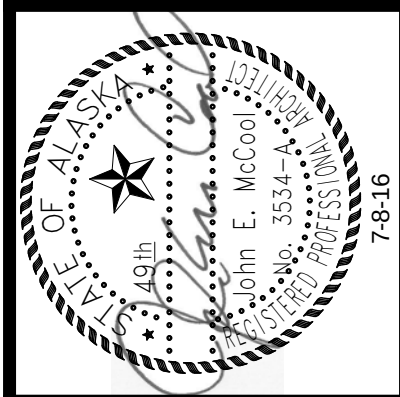
Drawn By: NMH	Checked By: JEM
Date: JULY 8, 2016	
Phase: BID SET	
Project No: 2014042	
SHEET TITLE:	

WAREHOUSE -
ROOF PLAN

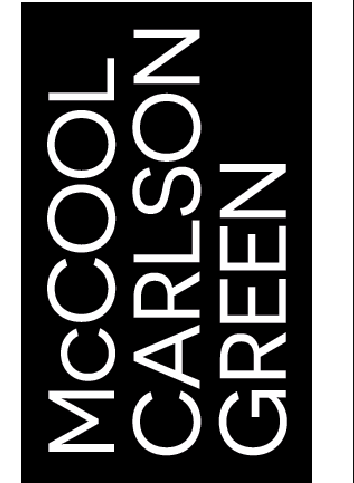
SHEET NO: _____

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A4



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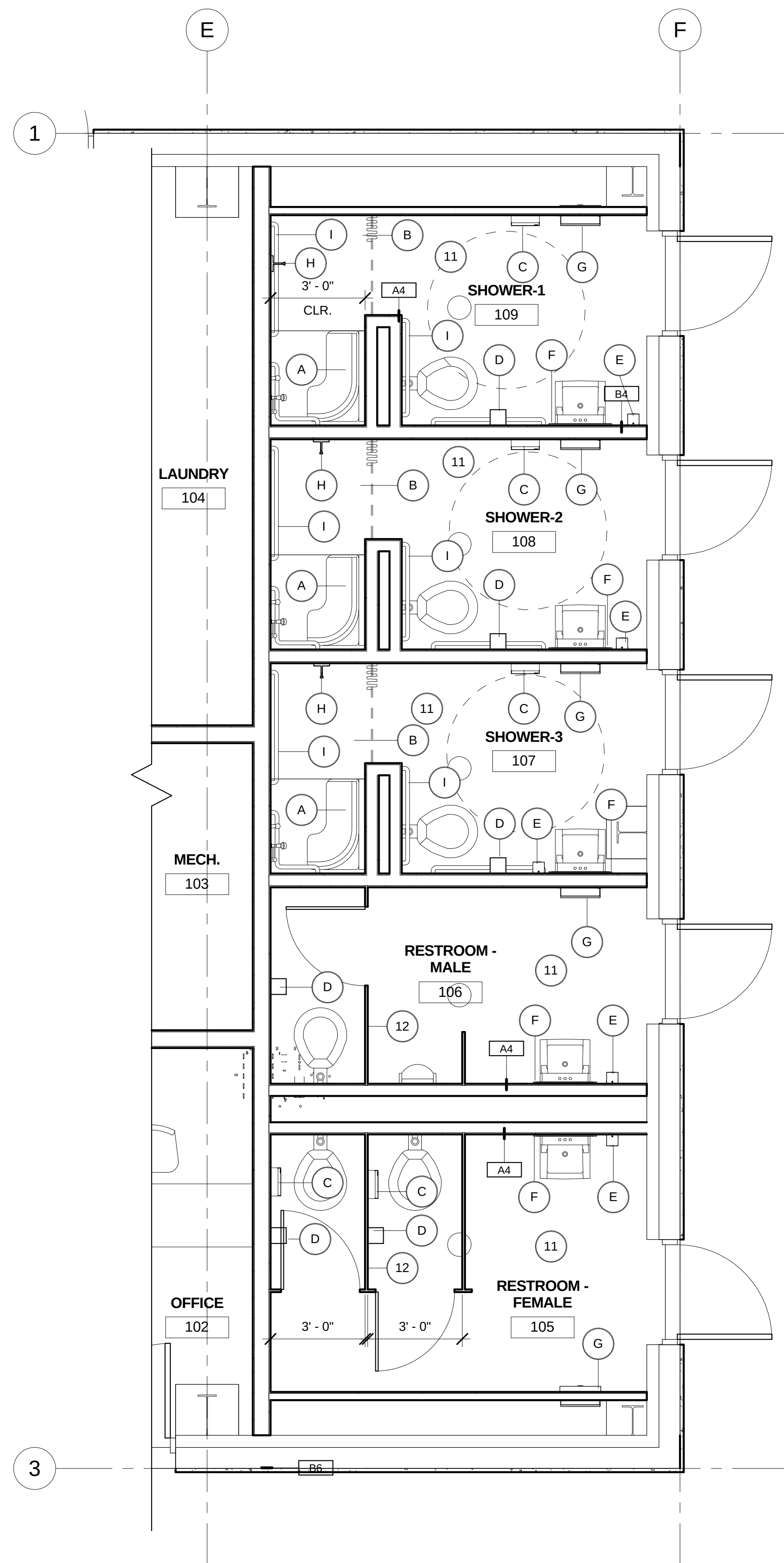




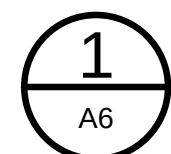
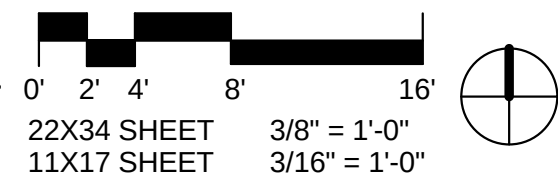
8 EXTERIOR CANOPY
9 EXPOSED TO STRUCTURE

A5

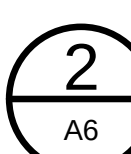




1 WAREHOUSE BUILDING ENLARGED PLAN -
SHOWER ROOMS

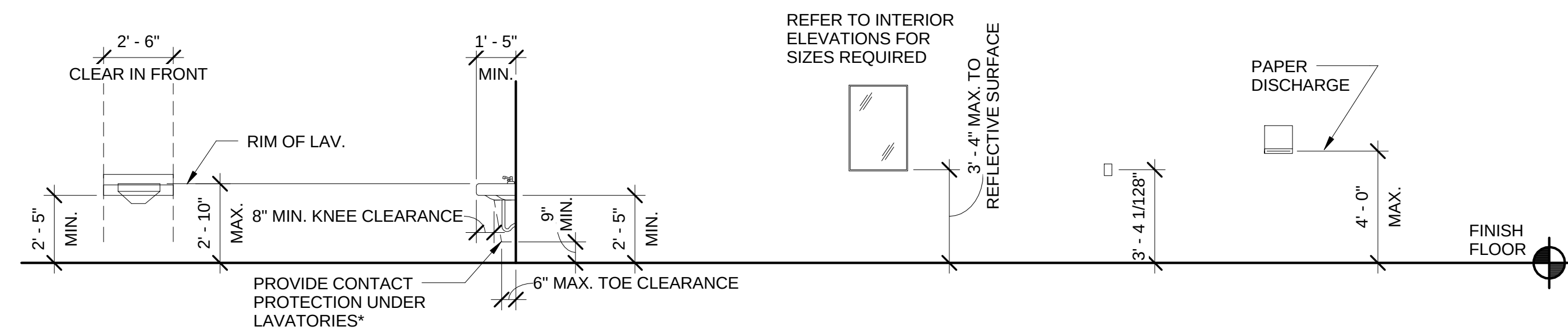

$$\frac{3}{8}'' = 1'-0''$$


2 ACCESSIBLE FIXTURE MOUNTING HEIGHTS


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

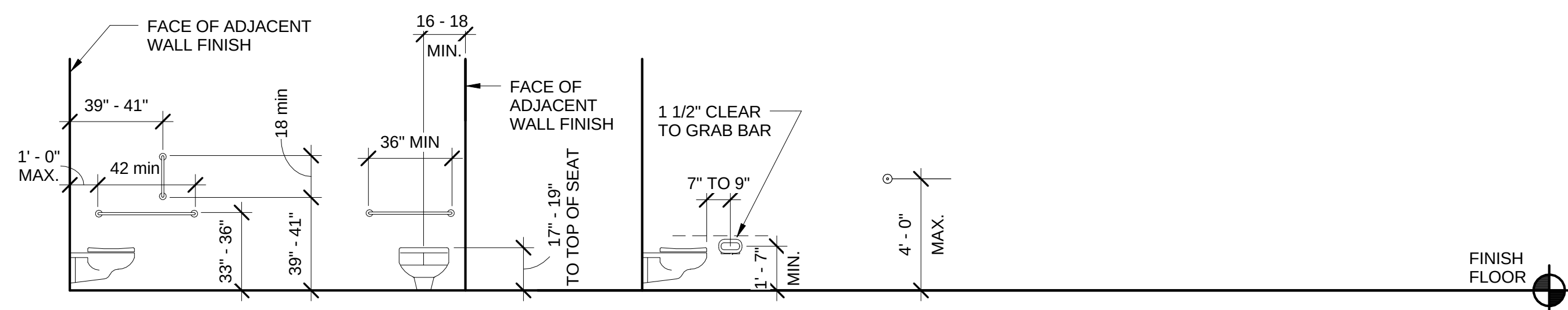
WAREHOUSE SHEET NOTES

- | | |
|----|------------------------------------|
| 11 | RUBBER FLOOR W/ COVE BASE AT WALL |
| 12 | 1" HDPE PARTITIONS |
| A | ADA SHOWER STALL WITH SEAT |
| B | CURTAIN ROD AND SHOWER CURTAIN |
| C | FEMININE NAPKIN DISPOSAL |
| D | TOILET PAPER DISPENSER |
| E | SOAP DISPENSER |
| F | MIRROR 24" X 36" WITH SHELF |
| G | WALL MOUNTED PAPER TOWEL DISPENSER |
| H | WALL MOUNTED HOOK |
| I | GRAB BAR |



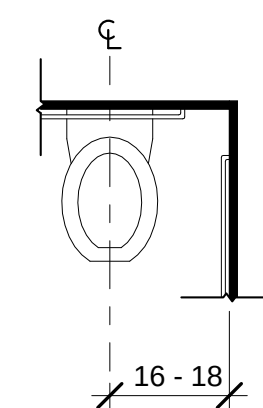
LAVATORY (LAV)

* WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINK SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT, AND THERE SHALL BE NO ABRASIVE SURFACE UNDER LAVATORIES OR SINKS.

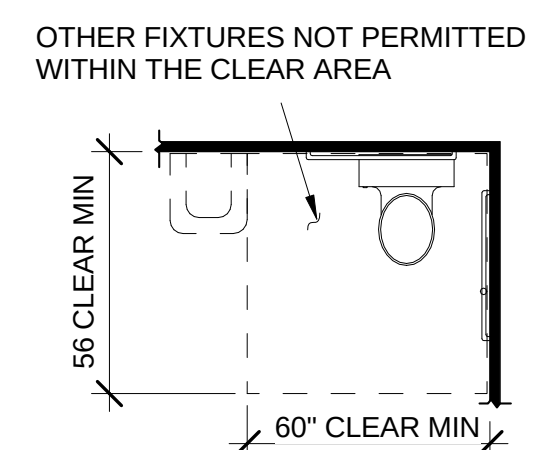
WALL MOUNTED GRAB
BARS AT SIDEWALL (GB)

WALL MOUNTED WATER
CLOSET (WC) AND GRAB BAR

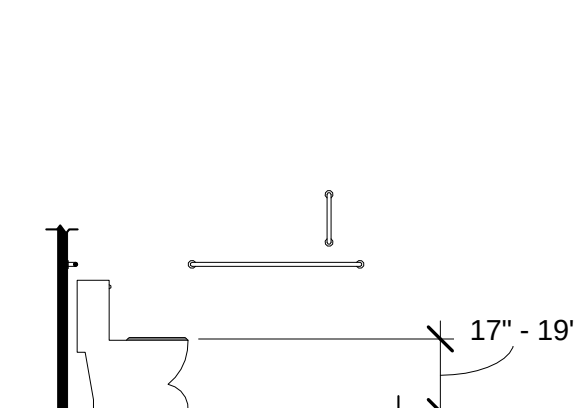
WALL MOUNTED TOILET
PAPER HOLDER (TP)

WALL MOUNTED
HOOK

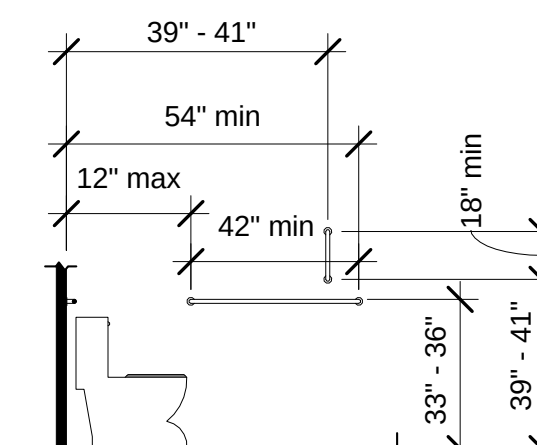
ADULT ACCESSIBLE WATER CLOSETS



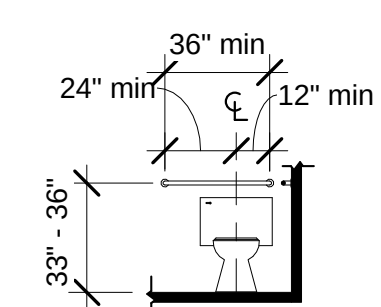
CLEARANCE AREA AROUND WATER CLOSETS



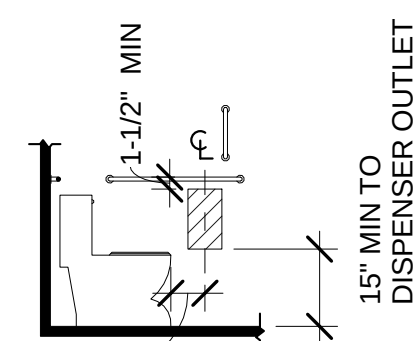
FLOOR MOUNTED
WATER CLOSET HEIGHT



FLOOR MOUNTED SIDE WALL GRAB
BAR FOR WATER CLOSET



REAR WALL GRAB BAR
FOR WATER CLOSET



BELOW GRAB BAR

[illegible]

Drawn By: NMH	Checked By: JEM
Date: JULY 8, 2016	
Phase: BID SET	
Project No: 2014042	
SHEET TITLE:	

WAREHOUSE -
ENLARGED PLANS

SHEET NO:

58 of 100

A6

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City of Valdez

**HARBOR DEVELOPMENT
UPLANDS FACILITIES**

[illegible]

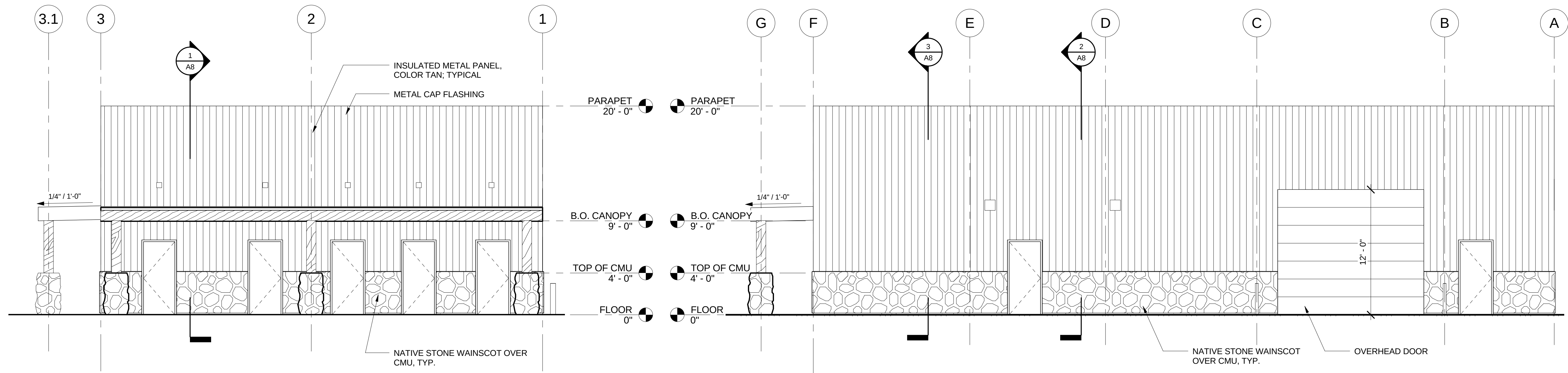
Drawn By: NMH	Checked By: JEM
Date: JULY 8, 2016	
Phase: BID SET	
Project No: 2014042	
SHEET TITLE:	

WAREHOUSE - EXTERIOR ELEVATIONS

SHEET NO:

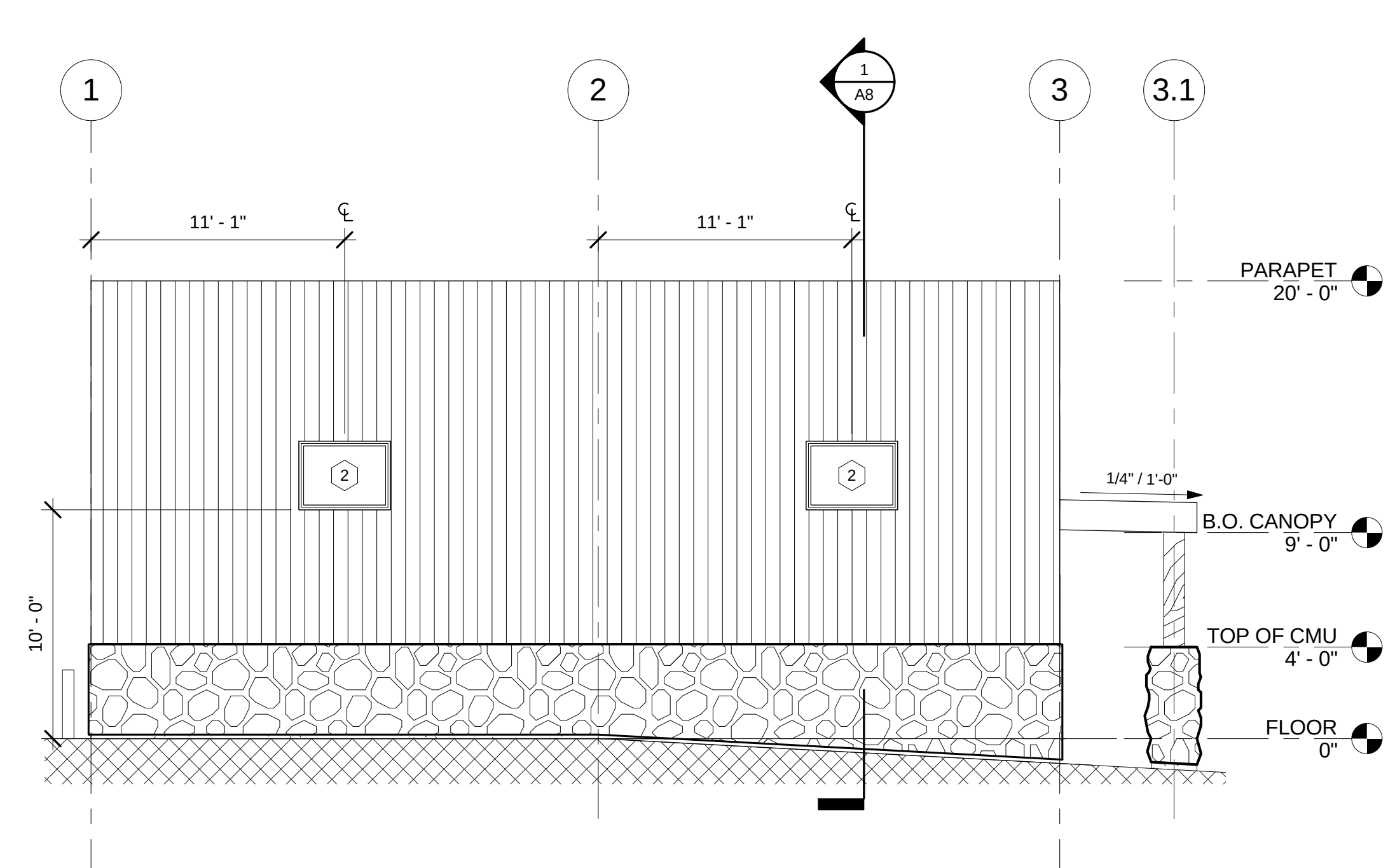
59 of 100

A7

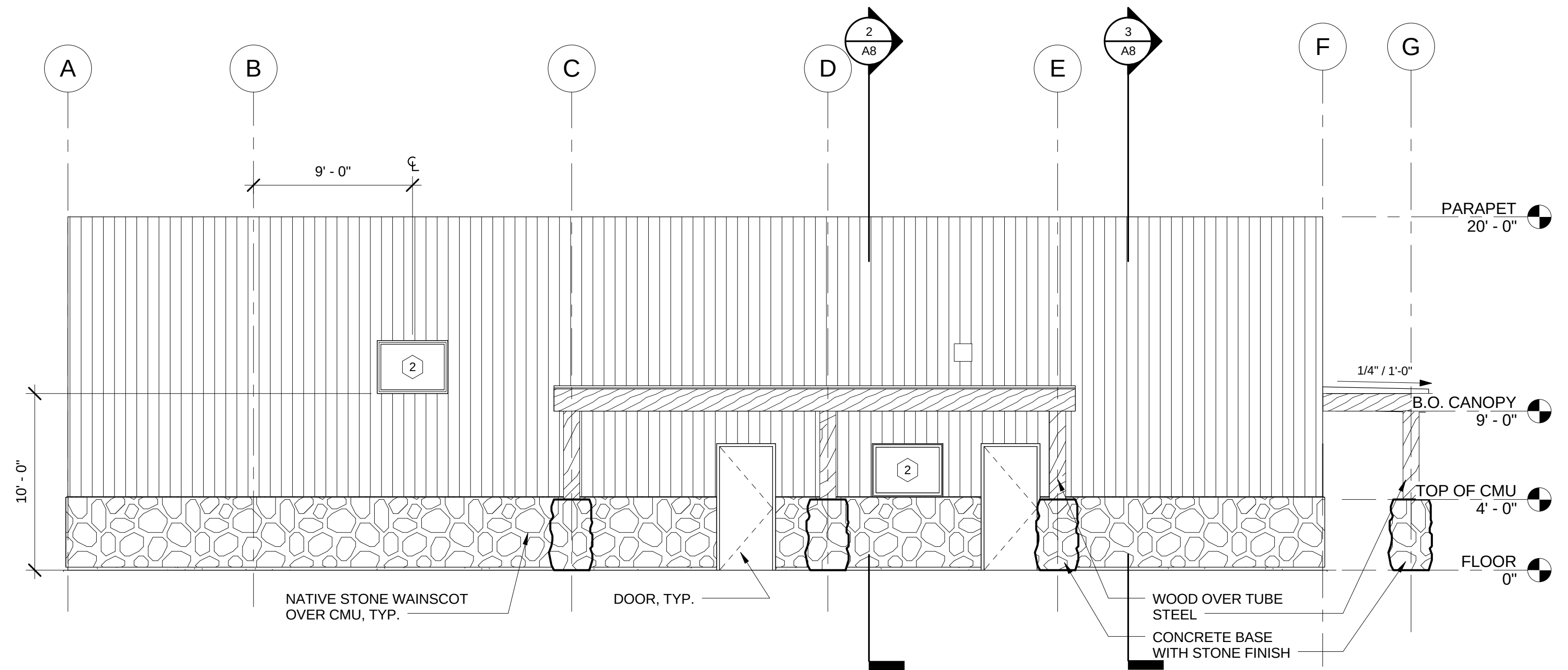


1 EAST BUILDING ELEVATION
A7 3/16" = 1'-0"

2 NORTH BUILDING ELEVATION
A7 3/16" = 1'-0"



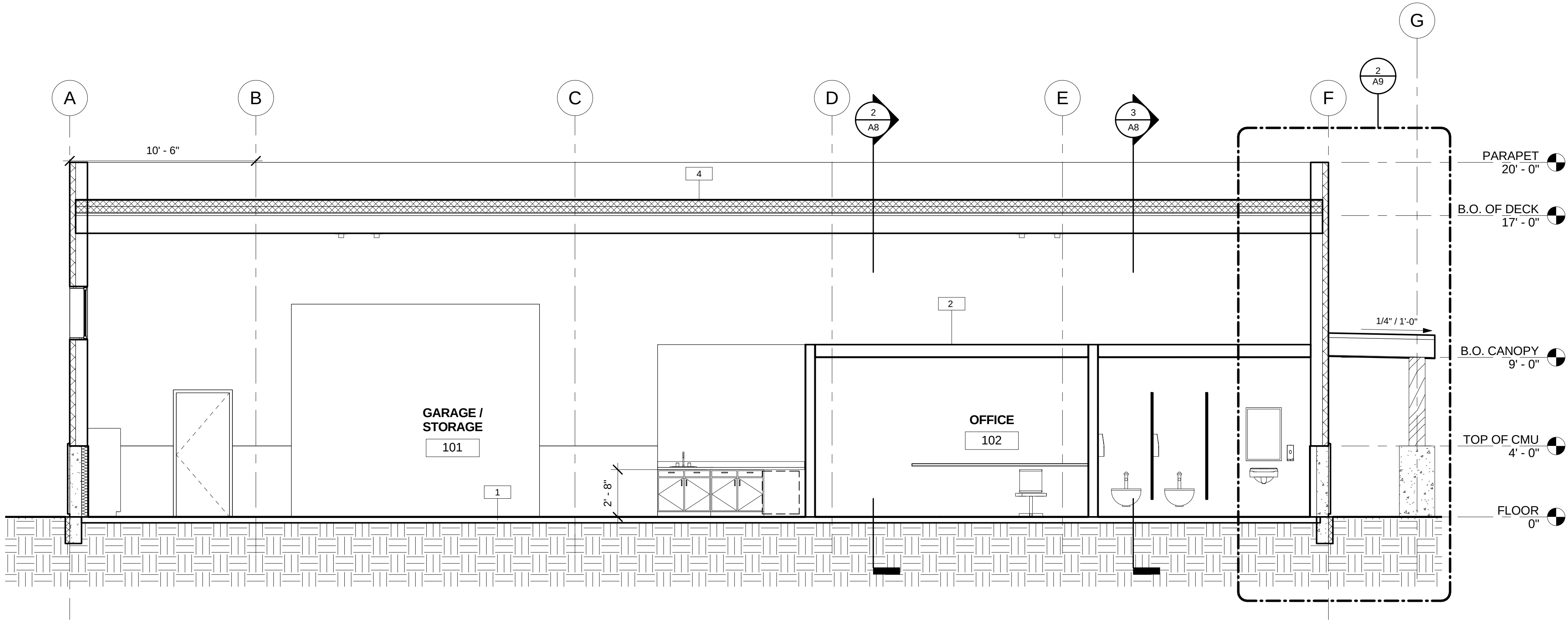
3 WEST BUILDING ELEVATION
A7 3/16" = 1'-0"



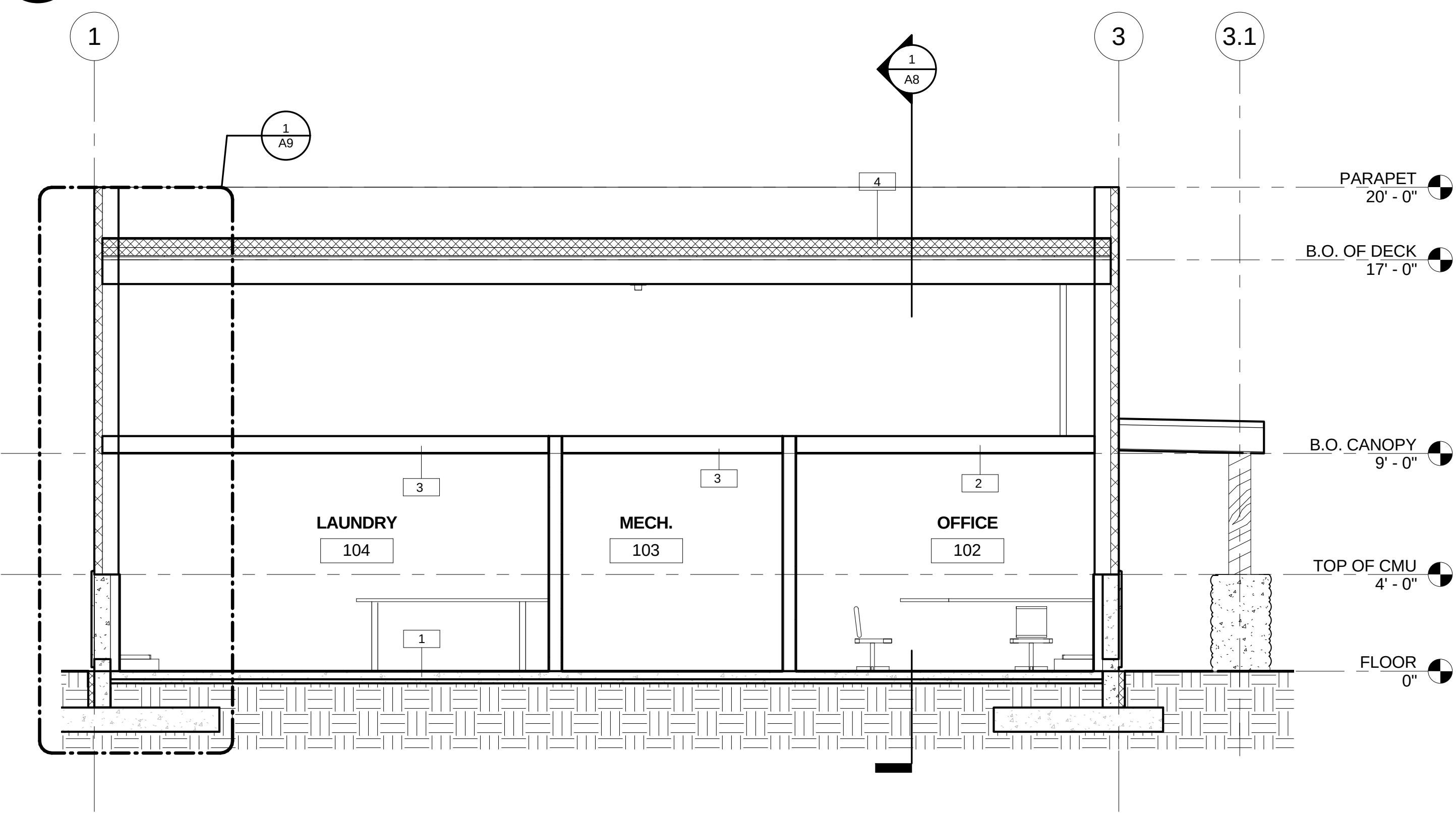
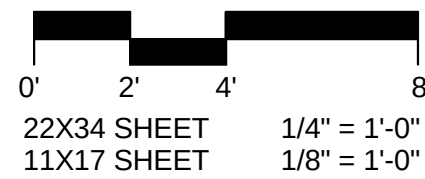
4 SOUTH BUILDING ELEVATION
A7 3/16" = 1'-0"

\\MCG\X\Redirection\Folders\in\horm\My Documents\COV HARBOR WAREHOUSE_NHorn.rvt

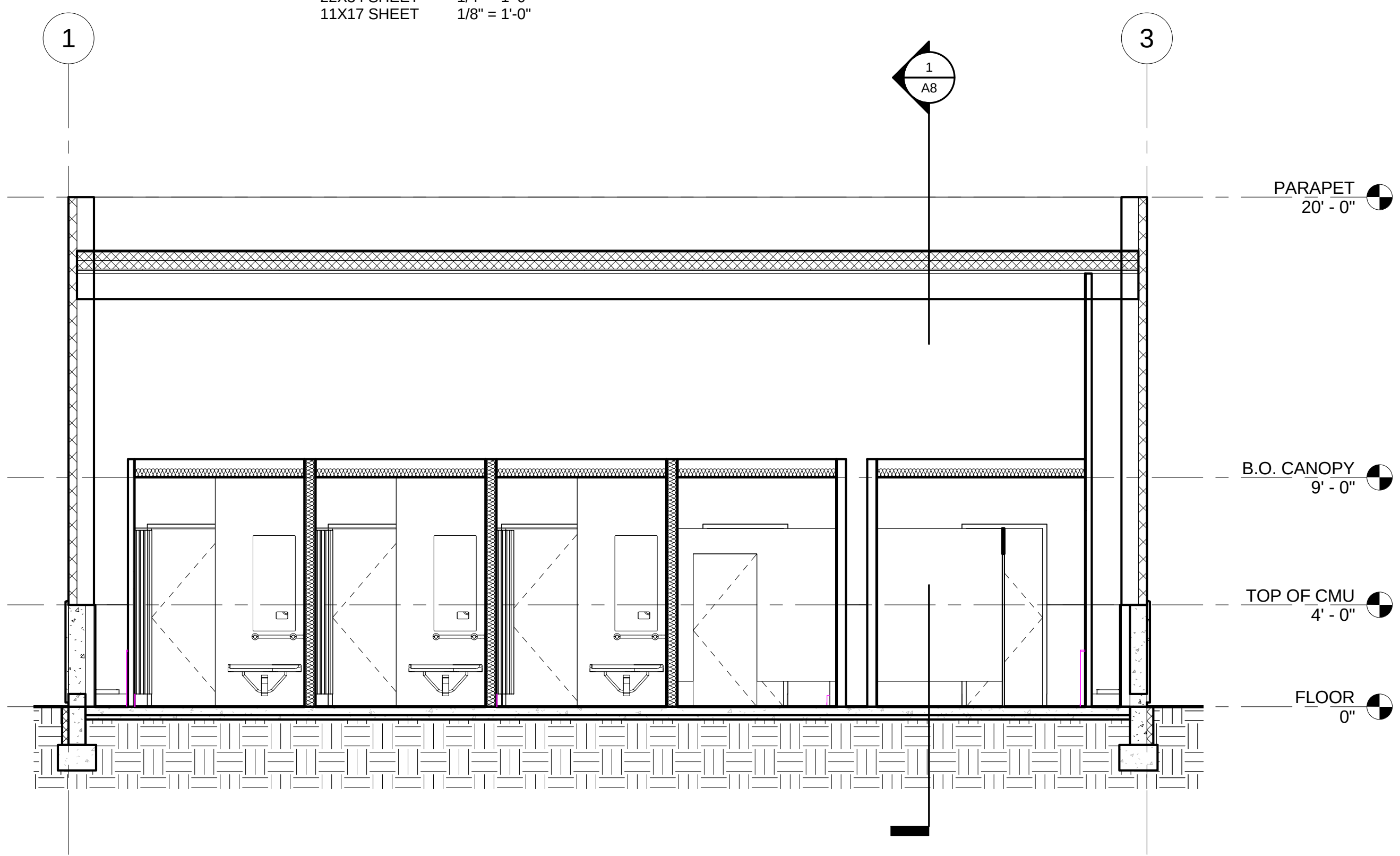
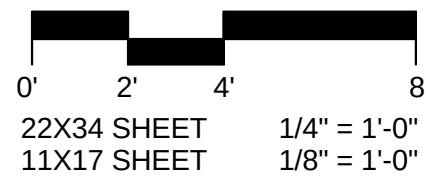
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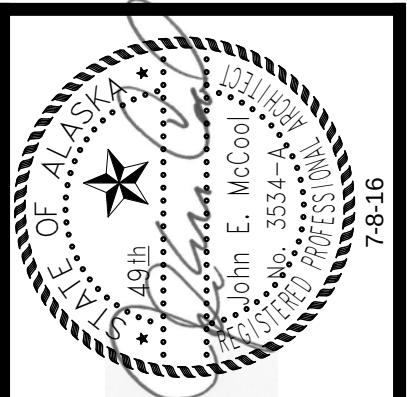
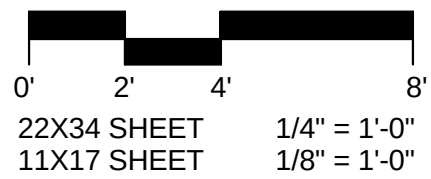
1 LONGITUDINAL SECTION
A8 1/4" = 1'-0"



2 CROSS SECTION
A8 1/4" = 1'-0"



3 CROSS SECTION1
A8 1/4" = 1'-0"



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No.	Description	Date

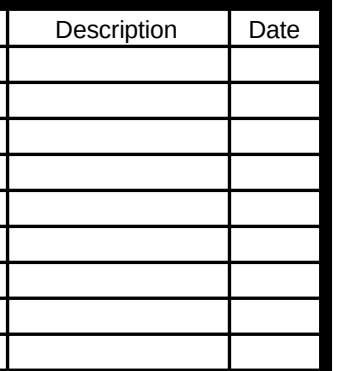
Drawn By: NMH
Checked By: JEM
Date: JULY 8, 2016
Phase: BID SET
Project No: 2014042
SHEET TITLE:

WAREHOUSE
BUILDING SECTIONS

SHEET NO:

60 of 100

A8



Printed By: NMH	Checked By: JEM
DATE: JULY 8, 2016	
TIME: 10 SET	
Object No: 4042	
SET TITLE:	

WAREHOUSE
ALL SECTIONS

SET NO:	
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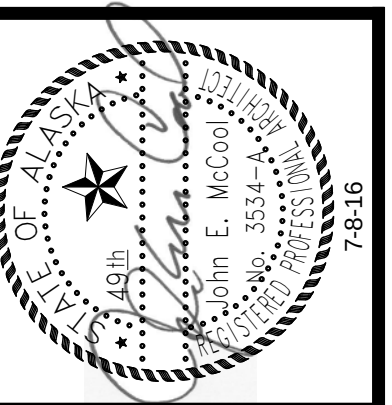
of 100

A9



2 BASE DETAIL
A10 1 1/2" = 1'-0"

3 COUNTER DETAIL
A10 1 1/2" = 1'-0"



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UPLANDS FACILITIES

[illegible]

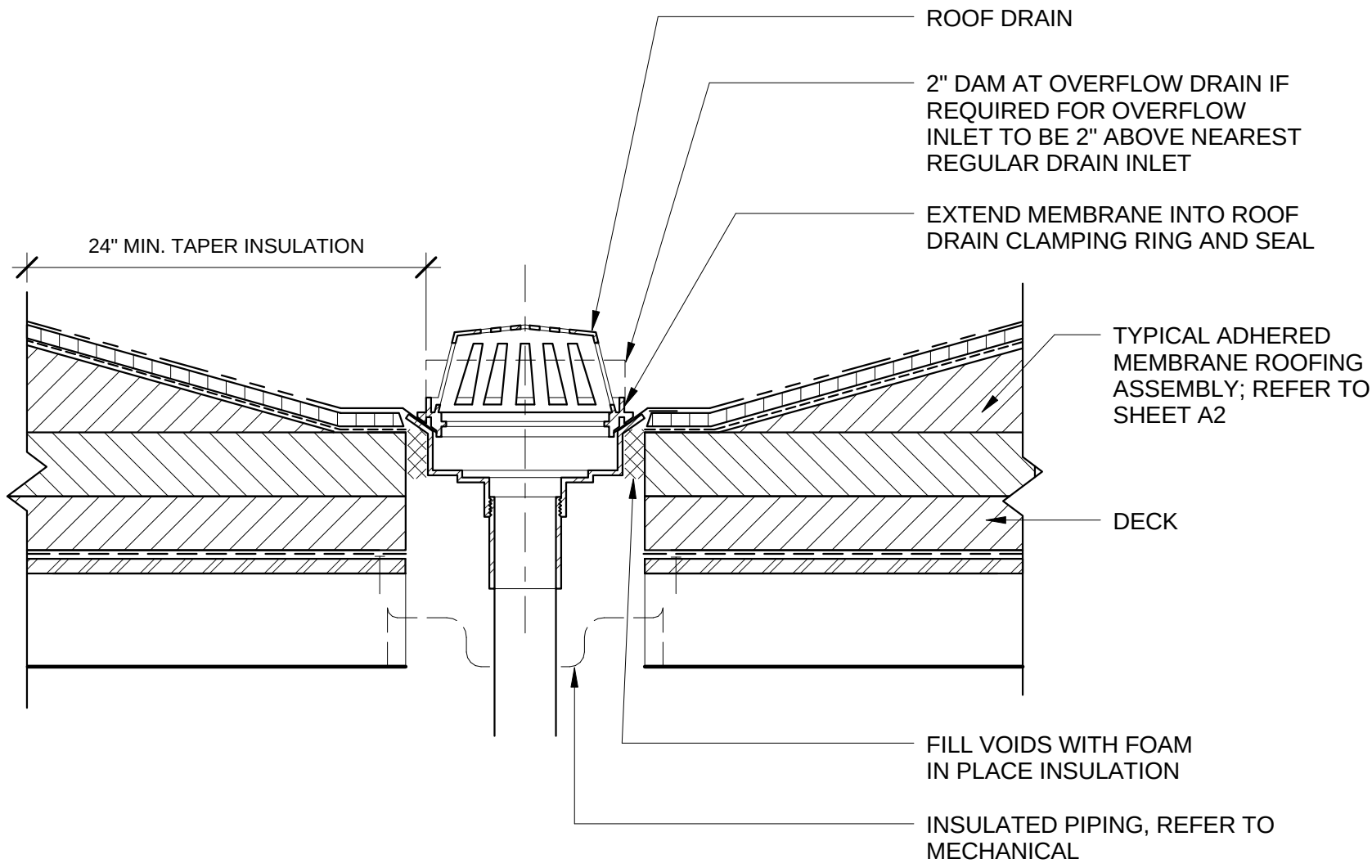
Drawn By: NMH	Checked By: JEM
Date: JULY 8, 2016	
Phase: BID SET	
Project No: 2014042	
SHEET TITLE:	

WAREHOUSE DETAILS

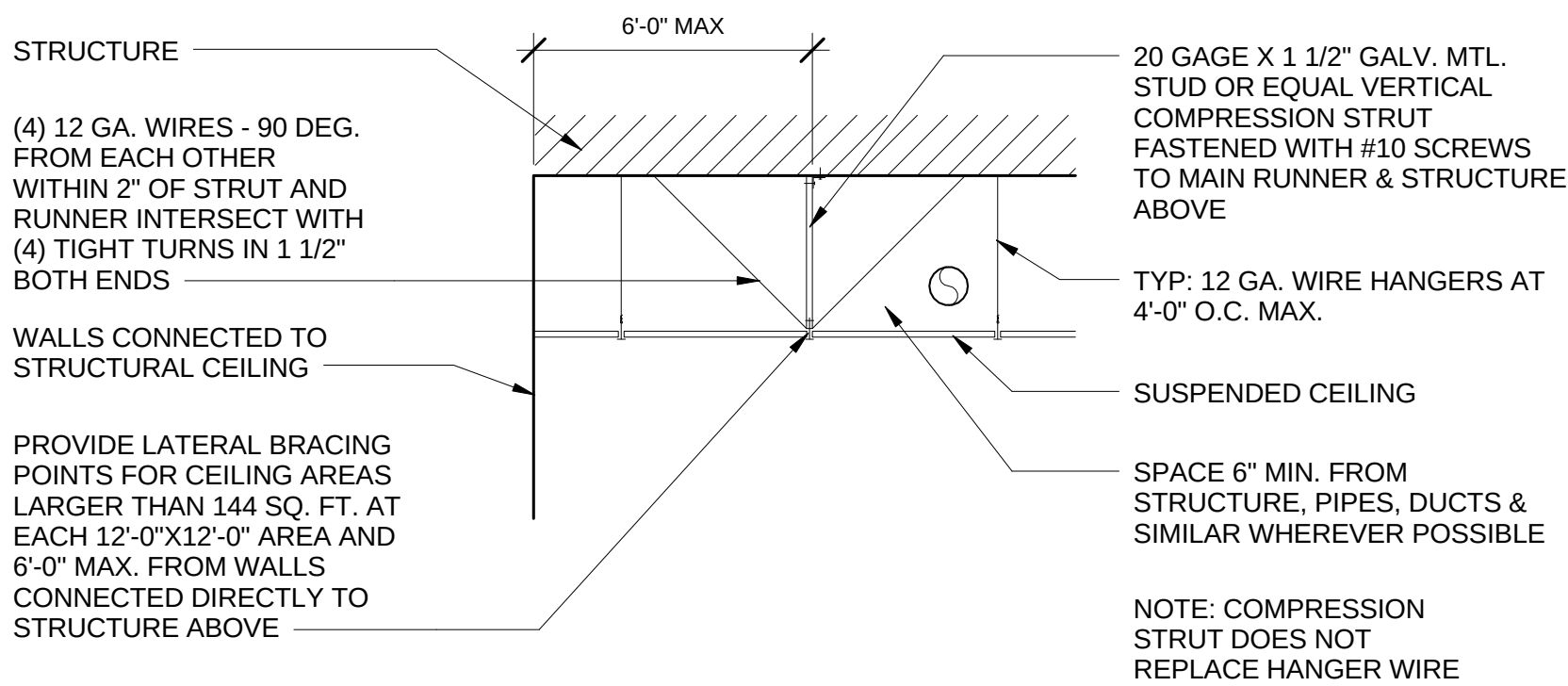
SHEET NO: _____

of 100

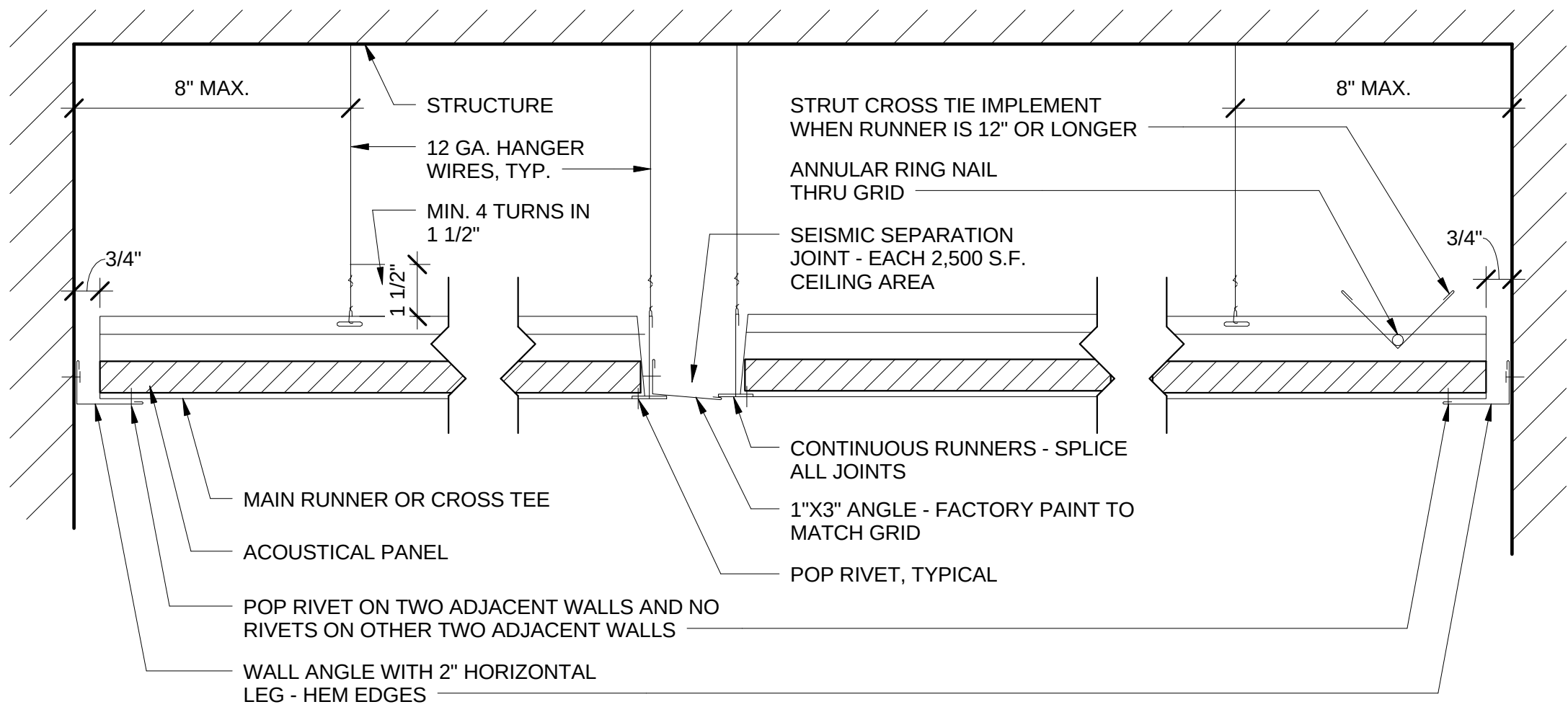
A10



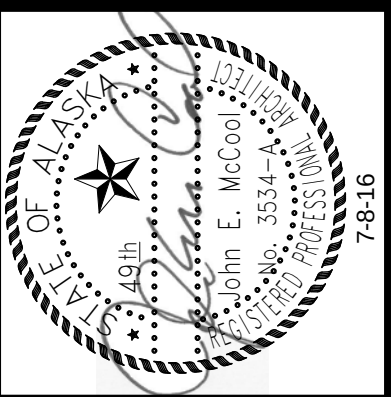
1 ROOF DRAIN
A12 1 1/2" = 1'-0"



4 TYPICAL BRACING - TYPICAL S.A.C.
A12 1/4" = 1'-0"



5 TYPICAL S.A.C. SYSTEM
A12 3" = 1'-0"



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No.	Description	Date

Drawn By: NMH
Checked By: JEM
Date: JULY 8, 2016
Phase: BID SET
Project No: 2014042
SHEET TITLE:

WAREHOUSE
DETAILS

SHEET NO:

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A12



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CARLSON
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[illegible]

Date:
JULY 8, 2016

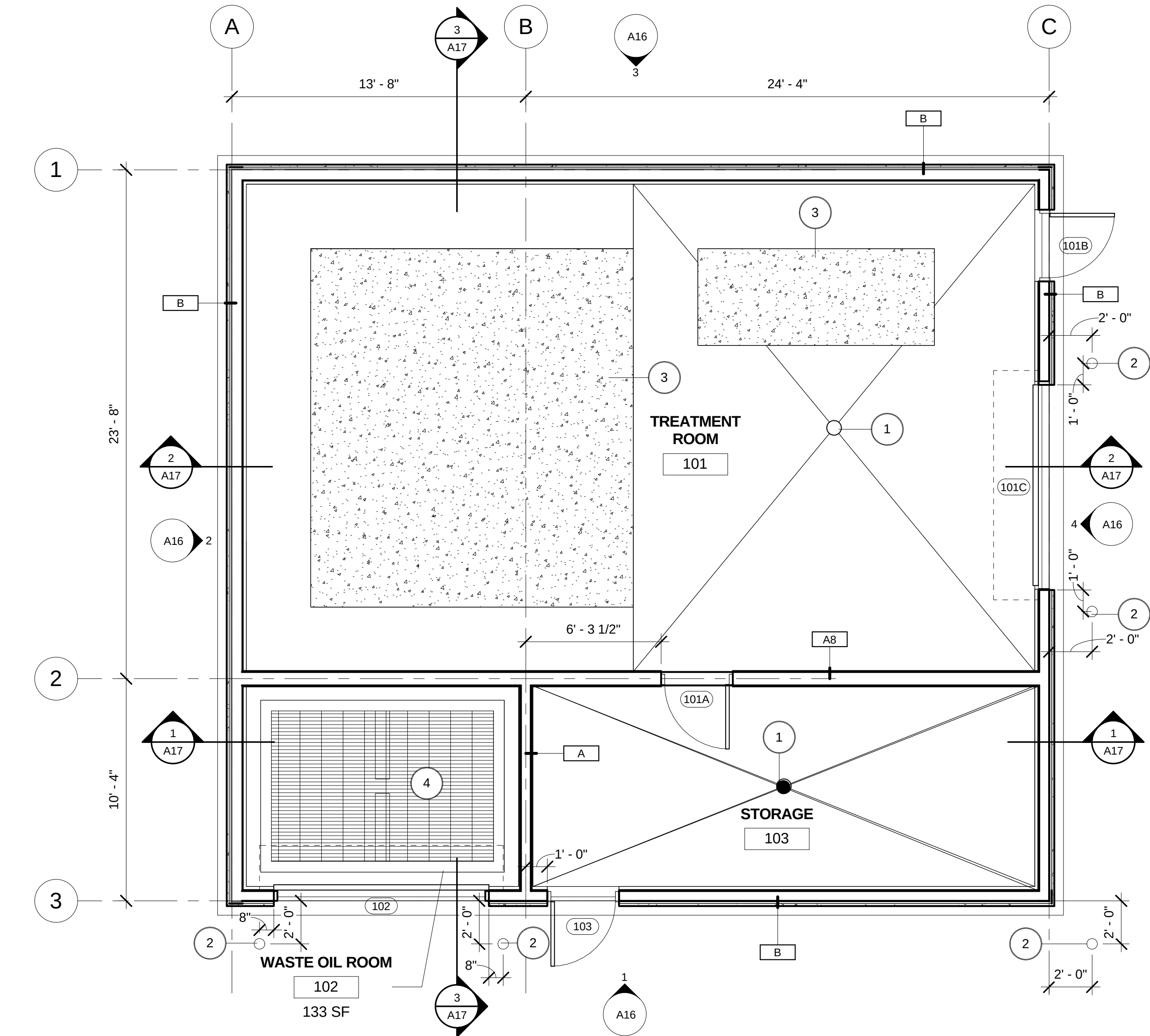
Phase: BID SET
Project No: 2014042

SHEET TITLE:
**BILGE WATER
TREATMENT
BUILDING
HORIZONTAL AND
VERTICAL**

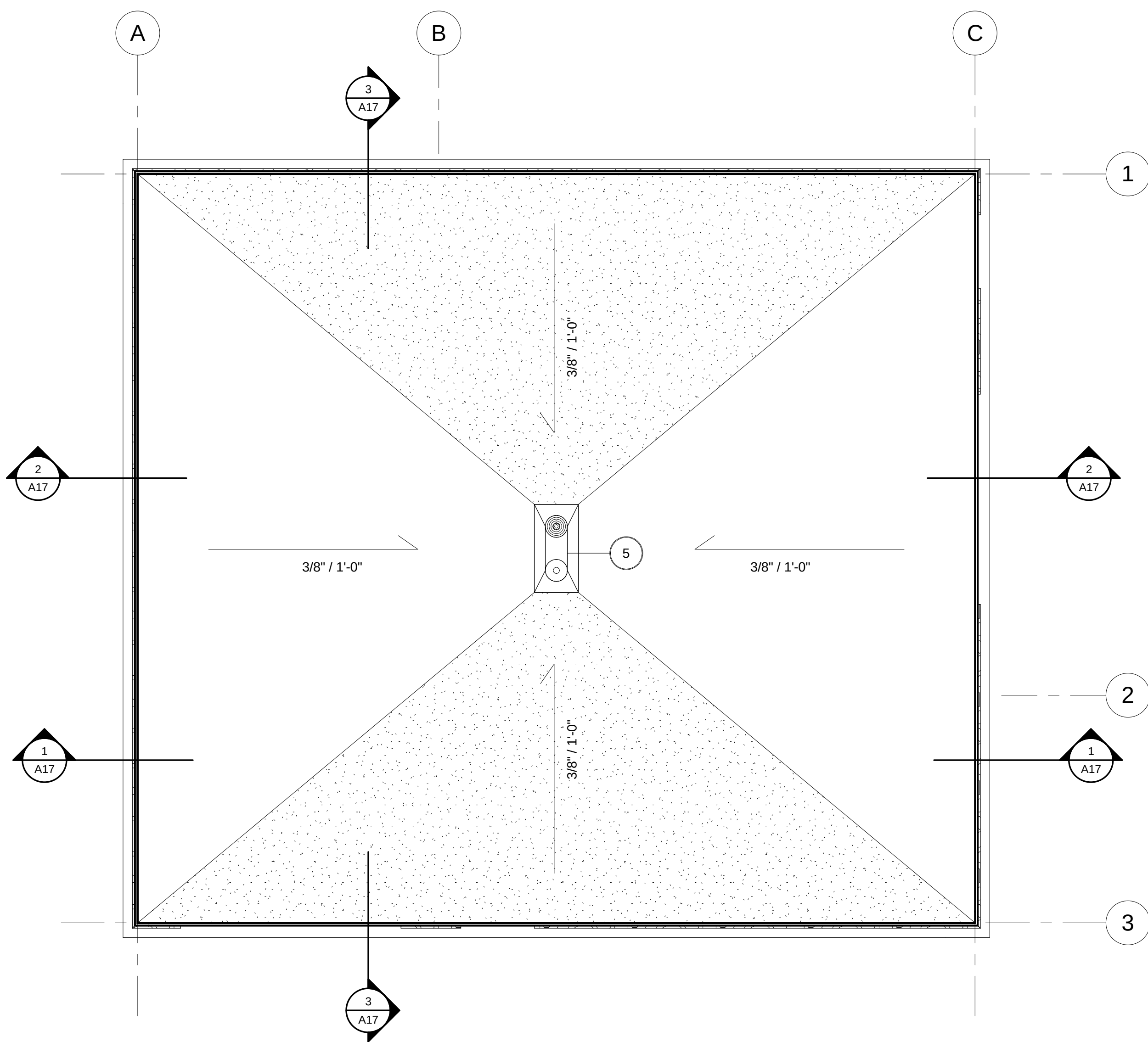
SHEET NO:

65 of 100

A13



1 BILGE TREATMENT BUILDING - LEVEL 1
A14 1/4" = 1'-0"



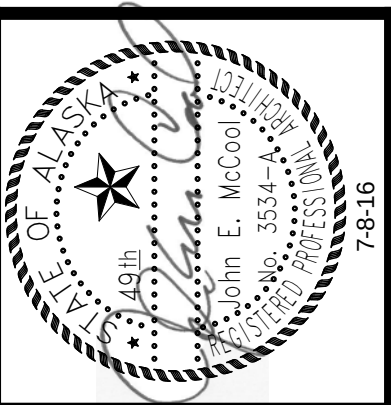
2 BILGE TREATMENT BUILDING ROOF PLAN
A14 1/4" = 1'-0"

PLAN LEGEND

- 1 SHEET NOTES CALLOUT
- Room name 101 ROOM TAG
- XXX WALL TAG - REFER TO VERTICAL ASSEMBLIES
- WALL
- DOOR AND TAG
- 3/8" / 1'-0" ROOF SLOPE ARROW; INDICATES DIRECTION OF SLOPE & RISE OVER RUN
- ROOF DRAIN
- SLOPED INSULATION - ARROW INDICATES DIRECTION OF SLOPE - 1/4" PER FOOT MINIMUM TO PROVIDE POSITIVE SLOPE TO DRAIN

BILGE WATER - SHEET NOTES

- 1 FLOOR DRAIN
- 2 BOLLARD
- 3 THICKENED SLAB, REF STRUCTURAL
- 5 ROOF DRAIN



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UPLANDS FACILITIES



No.	Description	Date

Drawn By: NMH
Checked By: JEM
Date: JULY 8, 2016
Phase: BID SET
Project No: 2014042
SHEET TITLE:

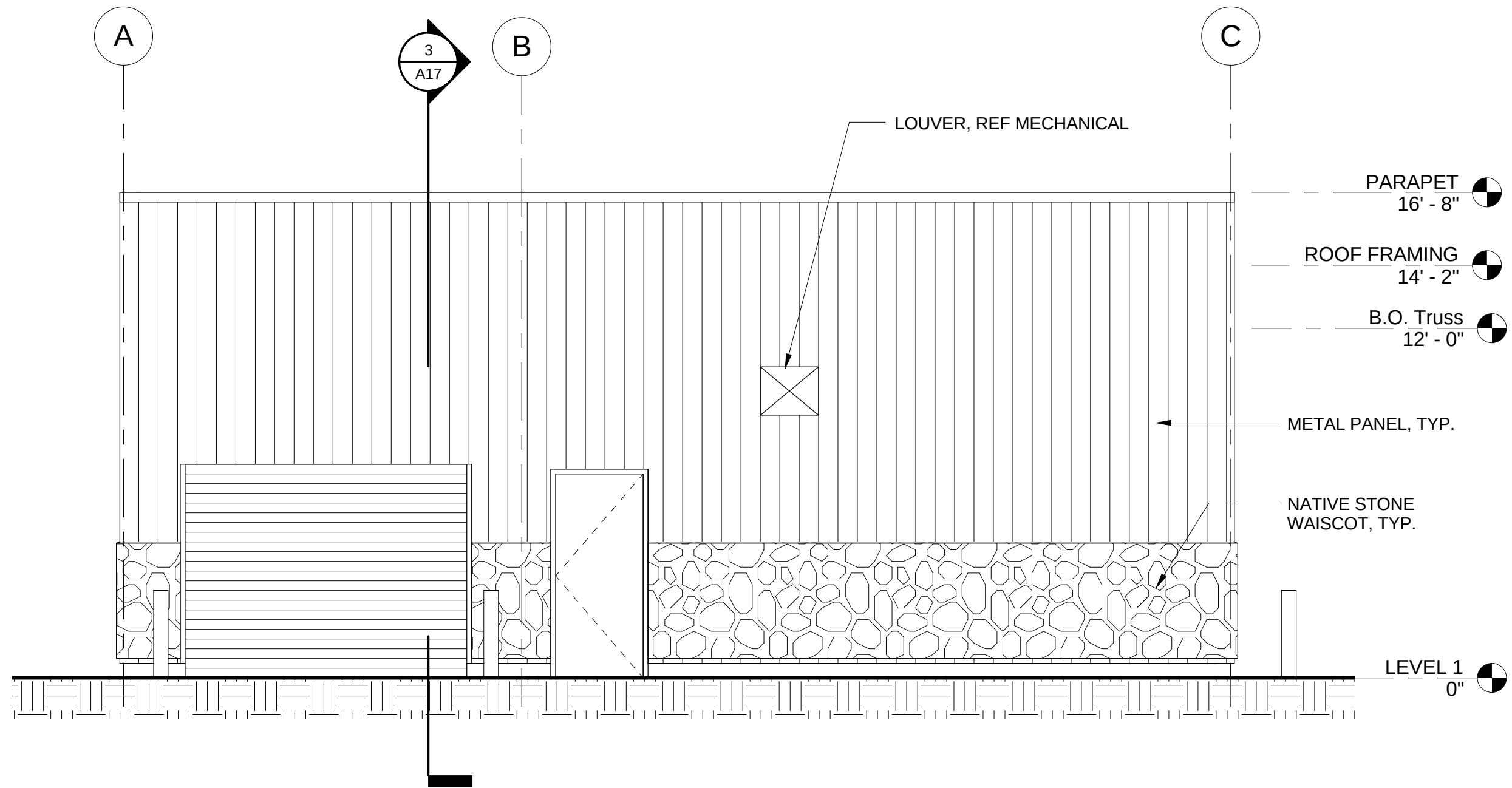
BILGE TREATMENT PLANS

SHEET NO:

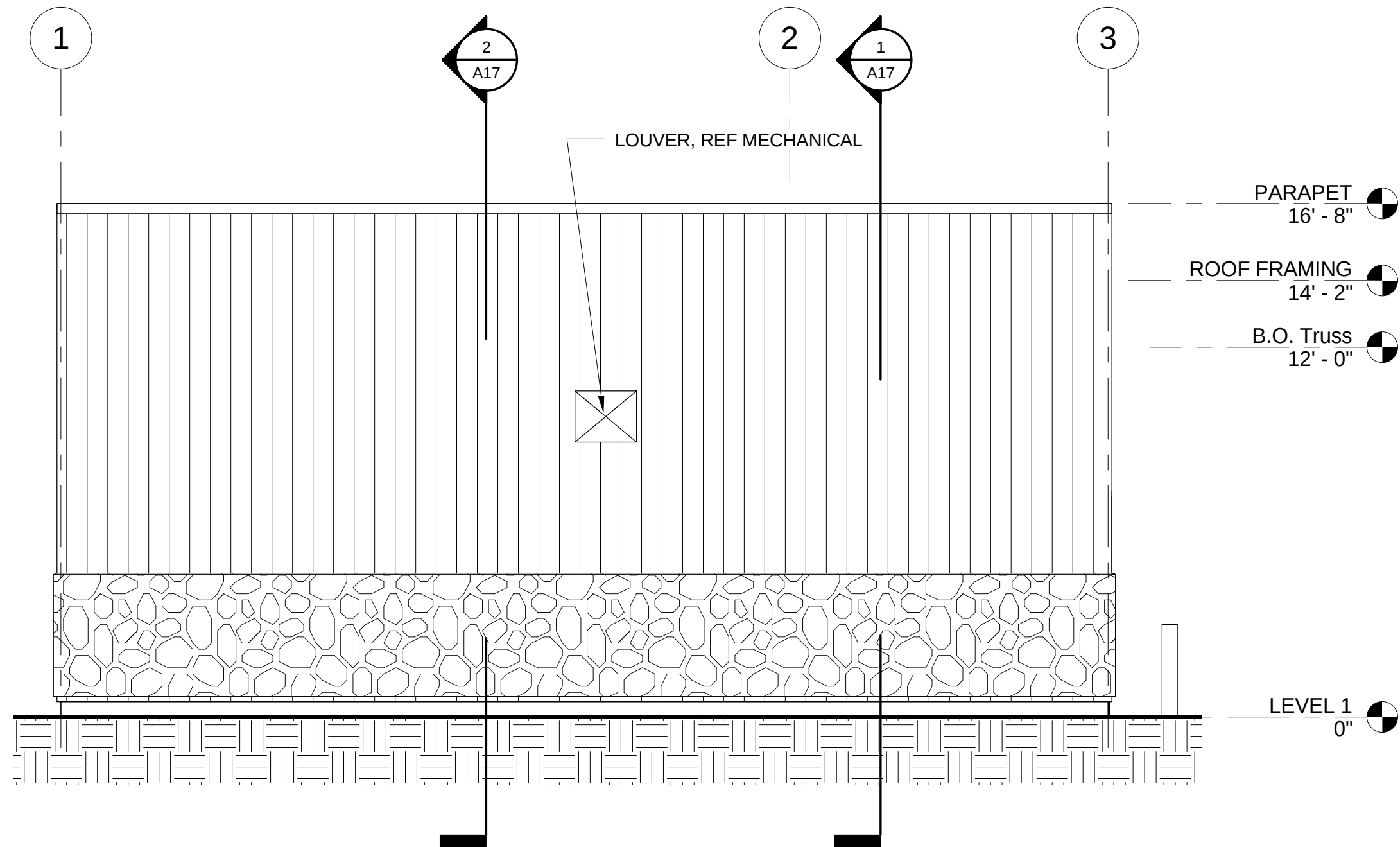
66 of 100

A14

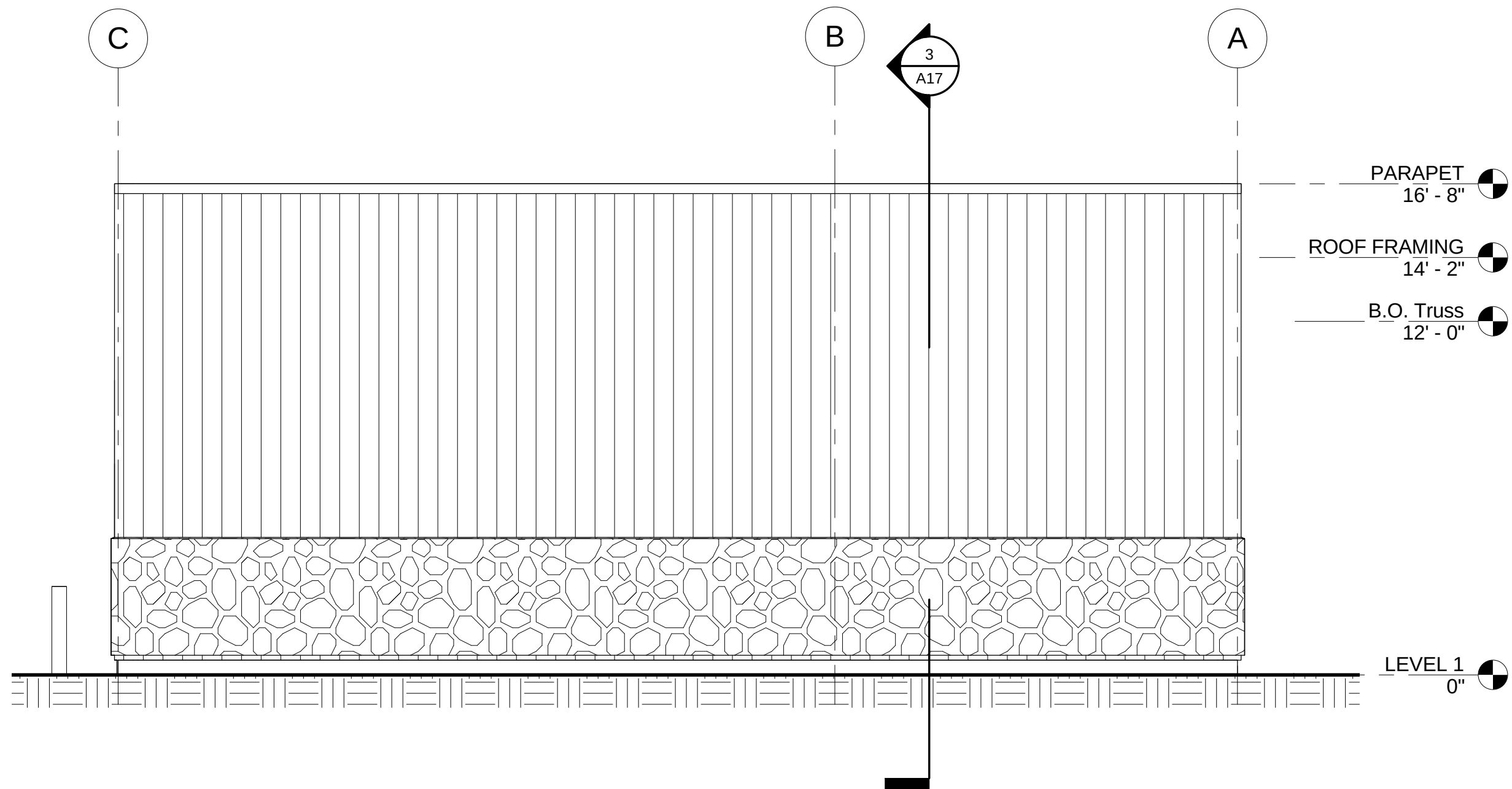
A15



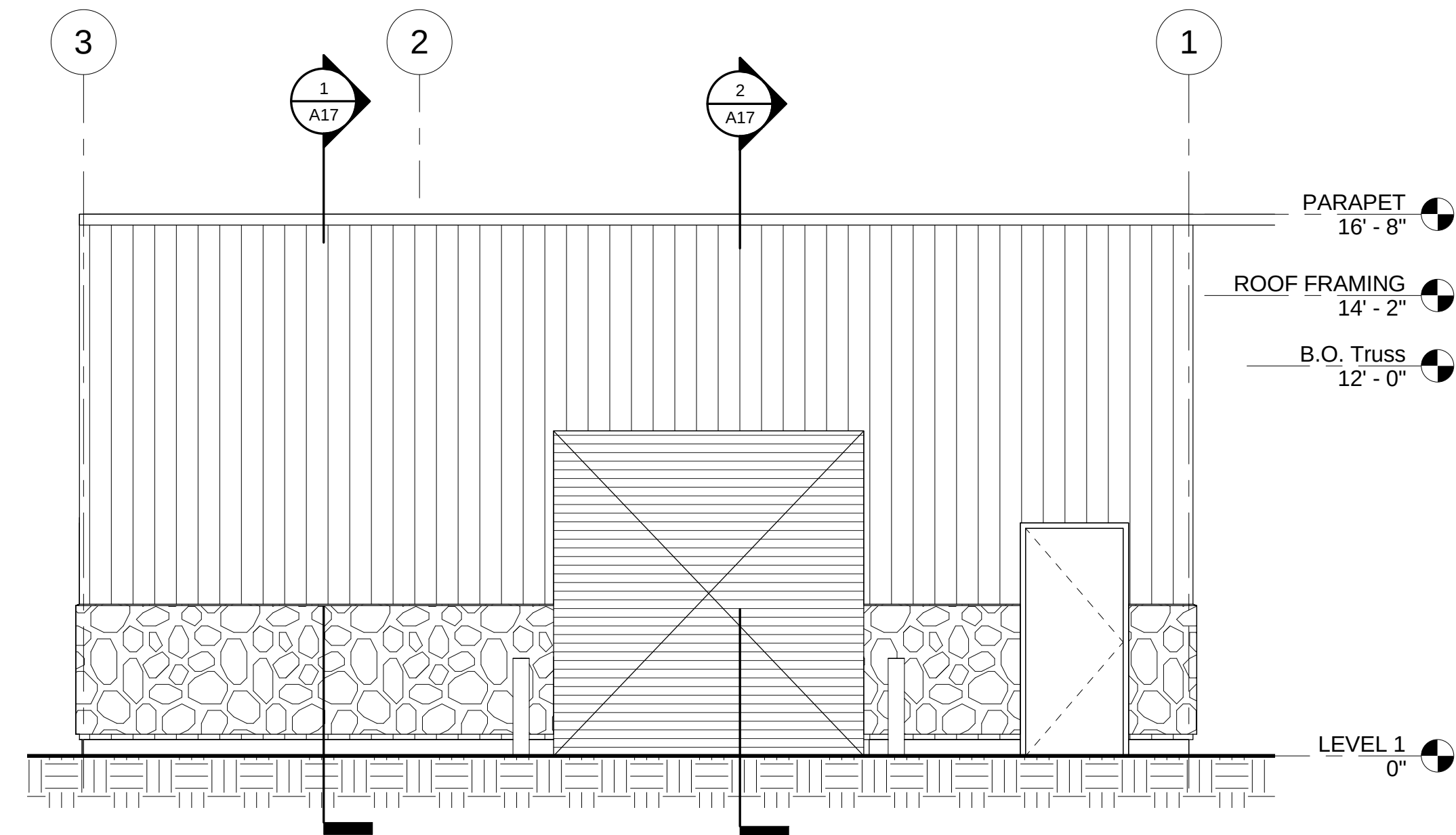
1 SOUTH BUILDING ELEVATION
A16 1/4" = 1'-0"



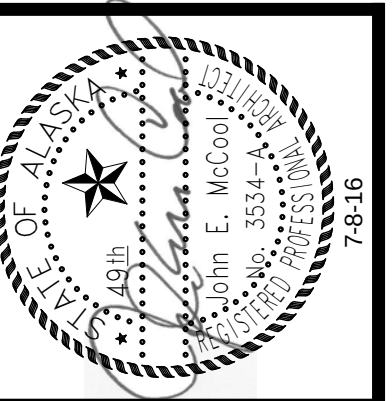
2 WEST BUILDING ELEVATION
A16 1/4" = 1'-0"



3 NORTH BUILDING ELEVATION
A16 1/4" = 1'-0"



4 EAST BUILDING ELEVATION
A16 1/4" = 1'-0"



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City of Valdez
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UPLANDS FACILITIES



No.	Description	Date

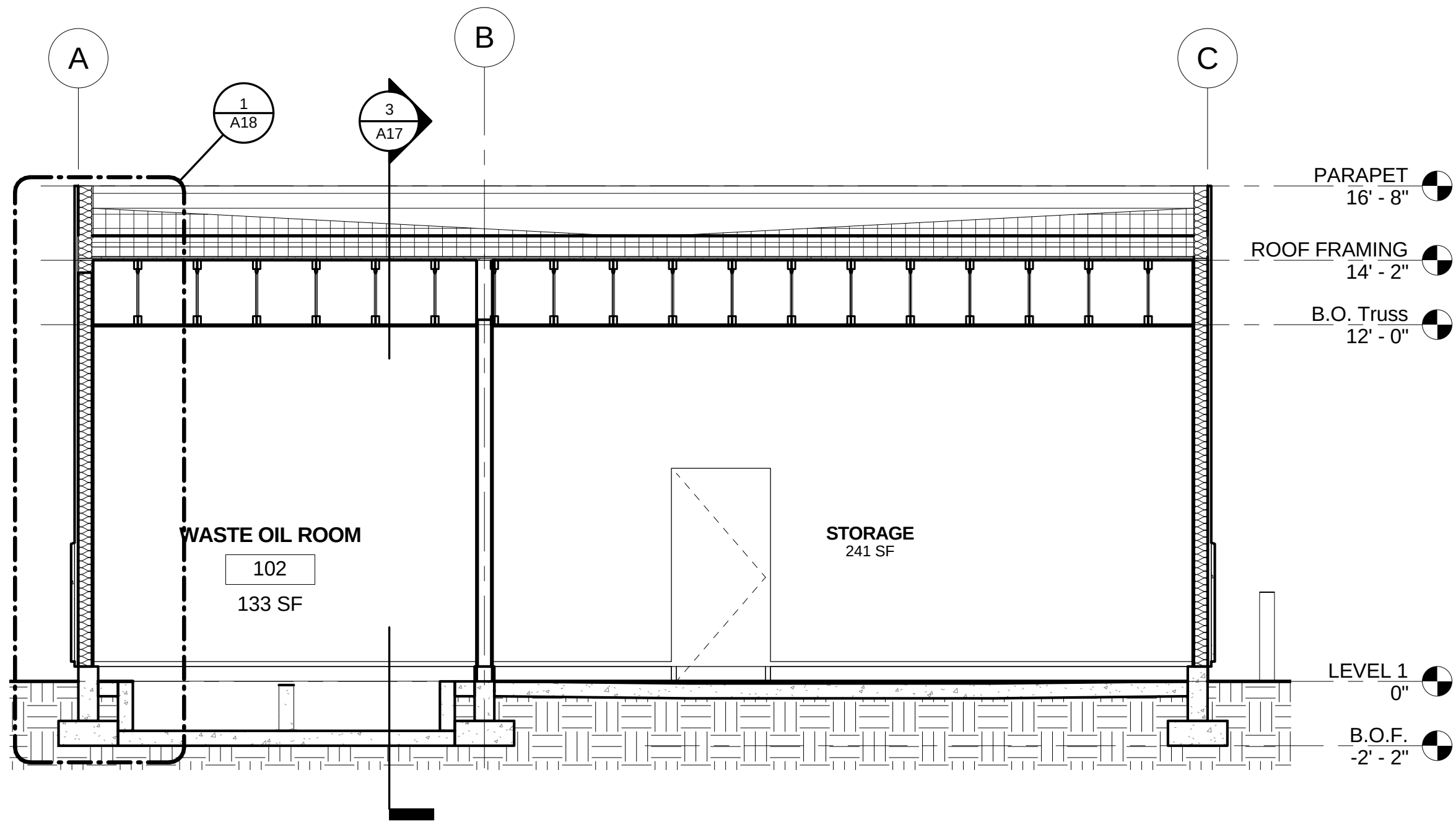
Drawn By: NMH
Checked By: JEM
Date: JULY 8, 2016
Phase: BID SET
Project No: 2014042
SHEET TITLE:

BILGE TREATMENT
BUILDING EXTERIOR
ELEVATIONS

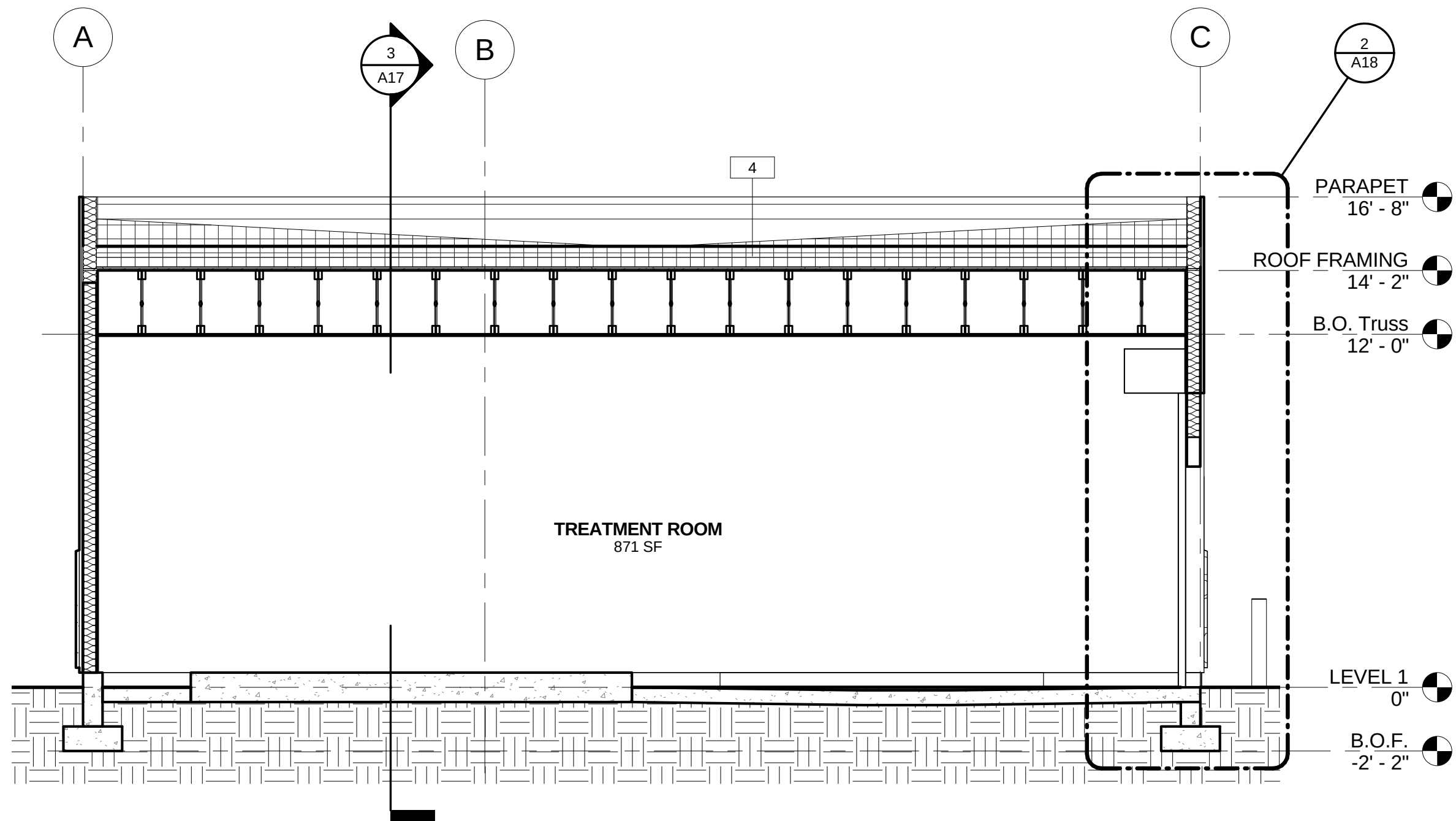
SHEET NO:

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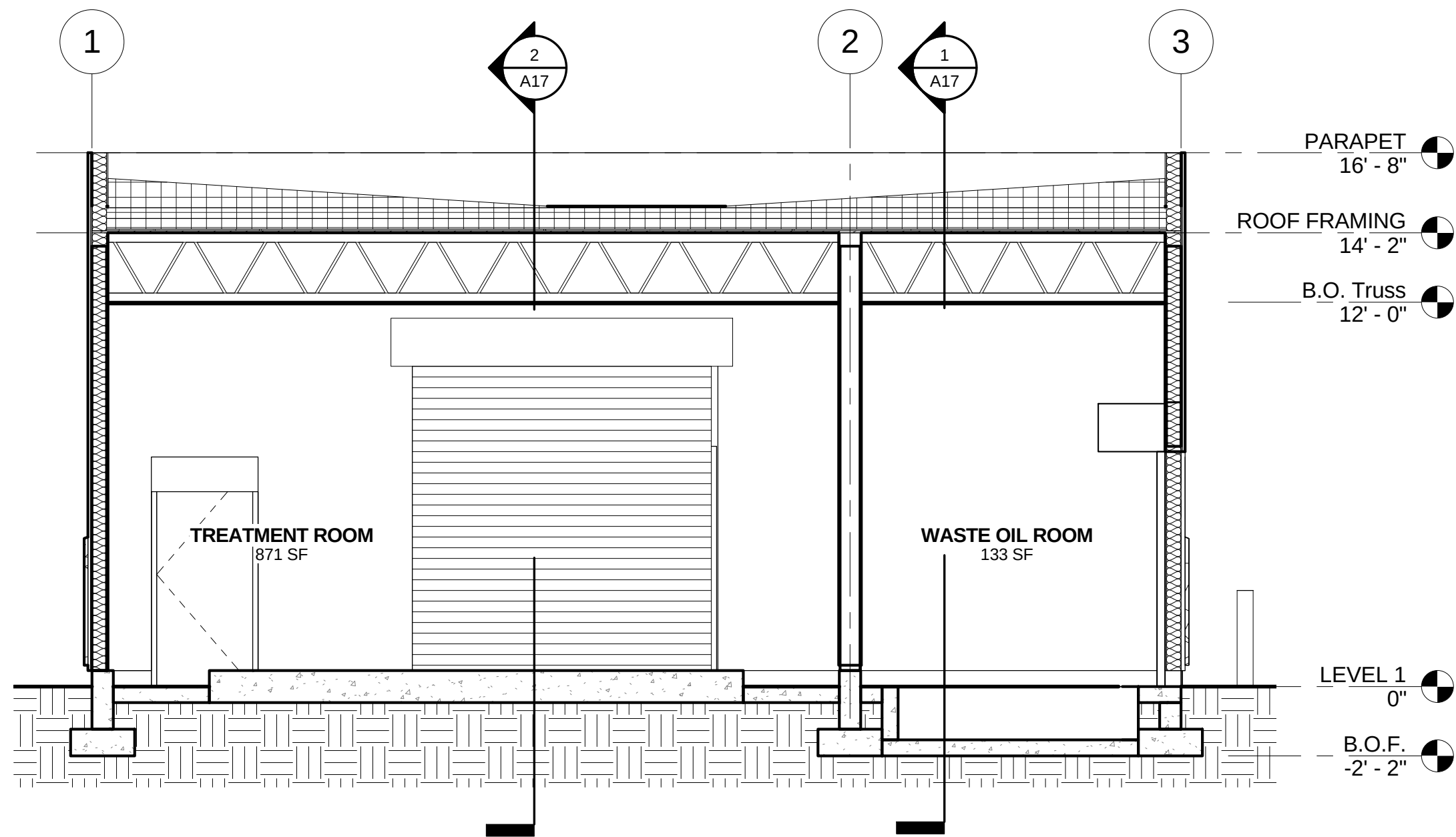
A16



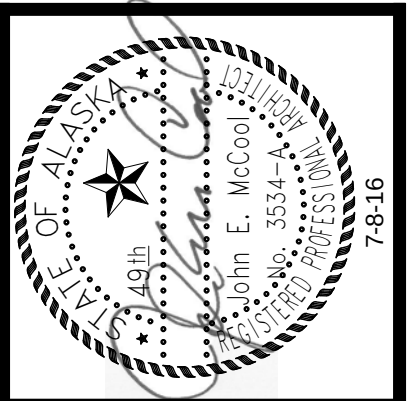
1 Section 1
A17 1/4" = 1'-0"



2 Section 2
A17 1/4" = 1'-0"



3 Section 3
A17 1/4" = 1'-0"



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No.	Description	Date

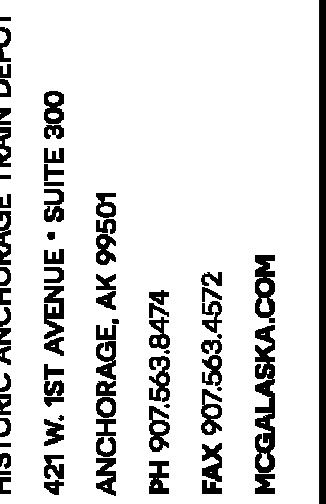
Drawn By: NMH
Checked By: JEM
Date: JULY 8, 2016
Phase: BID SET
Project No: 2014042
SHEET TITLE:

BILGE TREATMENT
BUILDING SECTIONS

SHEET NO:

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A17



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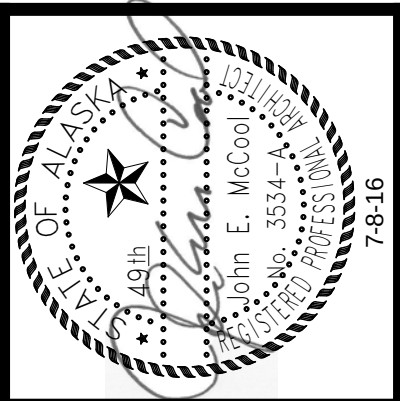
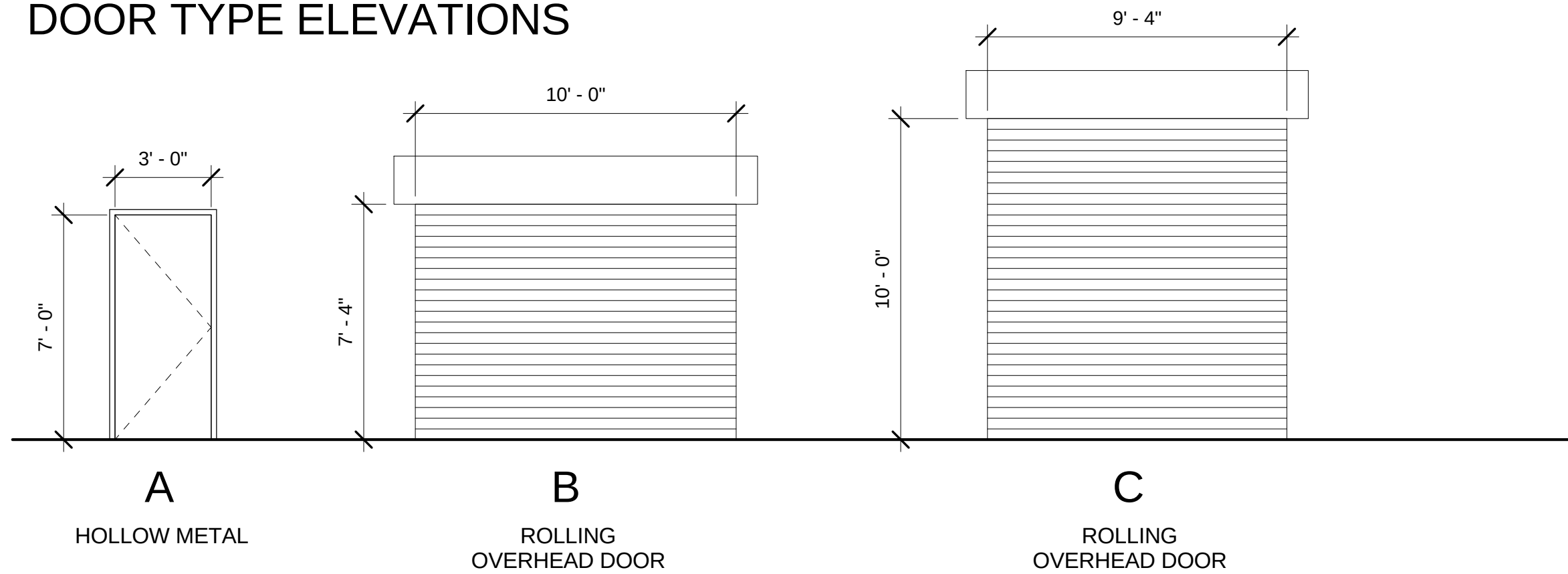
Drawn By: NMH	Checked By: JEM
Date: JULY 8, 2016	
Phase: BID SET	
Project No: 2014042	
SHEET TITLE:	

SHEET NO:

DOOR SCHEDULE - PHASE 2							
OPENING NO.	WIDTH	HEIGHT	DOOR TYPE	FRAME TYPE	HARDWARE SET	FIRE RATING	COMMENTS
101A	3' - 0"	7' - 0"	A	HM-1	REF SPEC	-	
101B	3' - 0"	7' - 0"	A	HM-1	REF SPEC	-	
101C	9' - 4"	10' - 0"	C	MRF	REF SPEC		
102	10' - 0"	7' - 4"	B	MFR	MFR	-	
103	3' - 0"	7' - 0"	A	HM-1	REF SPEC	-	

Room Schedule									
NUMBER	NAME	FLOOR FINISH	BASE FINISH	CEILING FINISH	N	E	S	W	COMMENTS
1	STORAGE	SEALED CONC.	NONE	GYP / PAINT	FRP	FRP	FRP	FRP	
101	TREATMENT ROOM	SEALED CONC.	NONE	GYP / PAINT	FRP	FRP	FRP	FRP	
102	WASTE OIL ROOM	SEALED CONC.	NONE	GYP / PAINT	FRP	FRP	FRP	FRP	
103	STORAGE	SEALED CONC.	NONE	GYP / PAINT	FRP	FRP	FRP		

DOOR TYPE ELEVATIONS



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SHEET TITLE:	

BILGE TREATMENT SCHEDULES

SHEET NO: _____

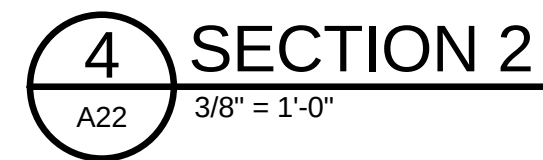
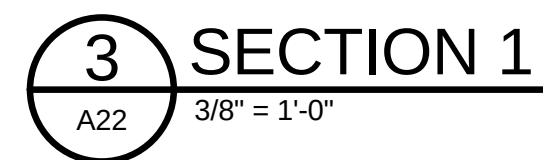
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A19



Drawn By: NMH	Checked By: JEM
Date: JULY 8, 2016	
Phase: BID SET	
Project No: 2014042	
SHEET TITLE:	

SHEET NO: _____



A22

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Drawn By: ECGB	Checked By: RRD
Date: JULY 08, 2016	
Phase: BID DOCUMENTS	
Project No: L2233.2	
SHEET TITLE: MECHANICAL LEGEND	

SHEET NO:
75 OF 100

M1.1

	WASTE
	VENT PIPING
	COLD WATER
	HOT WATER
	HOT WATER RECIRCULATED
	SEE ABBREVIATIONS FOR MEDIA
	PIPE UP
	PIPE DOWN
	TEE UP
	TEE DOWN
	CAP
	UNION
	DIRECTION OF FLOW
	BALL/BUTTERFLY VALVE
	GATE VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	CHECK VALVE
	FLOW CONTROL
	PRESSURE REDUCING VALVE
	PRESSURE/TEMPERATURE RELIEF VALVE
	HOSE BIBB
	PUMP
	CLEANOUT
	FILTER
	METER
	THERMOMETER
	PRESSURE GAUGE W/ ISOLATION COCK
	STRAINER W/ BLOWDOWN
	FLOOR CLEANOUT
	FLOOR DRAIN
	WATER HAMMER ARRESTOR

	THERMOSTAT	
	THERMOSTAT W/ TAMPER PROOF COVER	
	DDC SENSOR	
		SUPPLY AIR UP & DOWN
		RETURN AIR UP & DOWN
		EXHAUST AIR UP & DOWN
		ROUND DUCT UP & DOWN
	VOLUME DAMPER	
	MOTORIZED CONTROL DAMPER	
	SOUND LINED DUCTWORK	
	DUCT SIZE (FIRST FIGURE – SIDE SHOWN) (SECOND FIGURE – SIDE NOT SHOWN)	
	INSULATED DUCTWORK	
	TURNING VANES	
	FLEXIBLE DUCT CONNECTION	

Diagram illustrating various symbols used on piping drawings, with labels indicating their meaning:

- DETAIL NUMBER**: A circle containing the number 5.
- SHEET LOCATED ON**: A circle containing the number 5 and the text M2 below it.
- DIRECTION OF VIEW**: A diamond shape with a circle inside, containing the number 5 and the text M2 below it.
- SECTION NUMBER**: A circle containing the number 5 and the text M2 below it.
- SHEET LOCATED ON**: A circle containing the number 5 and the text M2 below it.
- RADIATION DESIGNATOR**: A circle containing the text FT-1.
- LENGTH**: A circle containing the text 10'12".
- GPM**: A circle containing the text 10'12".
- SHEET NOTES**: A triangle containing the text TAG.
- NECK SIZE**: A circle containing the text CONNECTION.
- CFM**: A circle containing the text CFM.
- DIFFUSER OR GRILLE T**: A circle containing the text CONNECTION.

AAV	COMPRESSED AIR	HOR	HEATING OIL RETURN
ABV	AUTOMATIC AIR VENT	HOS	HEATING OIL SUPPLY
ABV	ABOVE	HGR	HOT GLYCOL RETURN
ADA	AMERICAN W/ DISABILITIES ACT GUIDELINES	HGS	HOT GLYCOL SUPPLY
AD	ACCESS DOOR	HW	HOT WATER
AFF	ABOVE FINISHED FLOOR	HWC	HOT WATER CIRCULATED
AFG	ABOVE FINISHED GRADE	IN	INCHES
AHAP	AS HIGH AS POSSIBLE	L	REFRIGERANT RETURN
AL	ALUMINUM	LAT	LEAVING AIR TEMPERATURE
AMPS	AMPERES	LF	LINEAL FEET
APD	AIR PRESSURE DROP	LPS	LOW PRESSURE STEAM
AS-X	AIR SEPARATOR DESIGNATOR	LWT	LEAVING WATER TEMPERATURE
B-X	BOILER DESIGNATOR	MAX	MAXIMUM
BDD	BACKDRAFT DAMPER	MBH	THOUSAND BTUH
BLDG	BUILDING	MFGR	MANUFACTURER
BOD	BOTTOM OF DUCT	M/A	MAKE-UP AIR
BP-X	BOILER CIRCULATION PUMP DESIGNATOR	MDA	MOTORIZED DAMPER ACTUATOR
BTUH	BRITISH THERMAL UNIT/HOUR	MIN	MINIMUM
CAP	CAPACITY	MOD	MOTOR OPERATED DAMPER
C/A	COMBUSTION AIR	MTD	MOUNTED
CD	CONDENSATE DRAIN	NC	NOISE CRITERIA
CFM	CUBIC FEET PER MINUTE	N.C.	NORMALLY CLOSED
CIRC	CIRCULATING	NO.	NUMBER
CLG	CEILING	N.O.	NORMALLY OPEN
CONT	CONTINUED	NTS	NOT TO SCALE
CONN	CONNECTION	OC	ON CENTER
CP-X	CIRCULATION PUMP DESIGNATOR	O/A	OUTSIDE AIR
CU	COPPER	OL	OVERFLOW RAIN LEADER
CU-X	CONDENSING UNIT DESIGNATOR	P	PROPANE GAS
DIA	DIAMETER	PD	PRESSURE DROP
dB	DECIBELS	PH	PHASE
DEG	DEGREE	PSI	POUND PER SQUARE INCH
DIM	DIMENSION	PSIG	POUNDS PER SQUARE INCH GAUGE
DN	DOWN	QTY	QUANTITY
DT-X	DAY TANK DESIGNATOR	R/A	RETURN AIR
DWG	DRAWING	RL	RAIN LEADER
E/A	EXHAUST AIR	RP-X	RADIANT PANEL DESIGNATOR
EAT	ENTERING AIR TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
EFF	EFFICIENCY	S	REFRIGERANT SUPPLY
EF-X	EXHAUST FAN DESIGNATOR	S/A	SUPPLY AIR
ET-X	EXPANSION TANK DESIGNATOR	S/S	START/STOP (ENABLE)
EU-X	EVAPORATIVE UNIT DESIGNATOR	SP	STATIC PRESSURE
EXH	EXHAUST	SQ	SQUARE
EWS-X	EMERGENCY EYEWASH/SHOWER DESIGNATOR	STS	STEAM SUPPLY
EWT	ENTERING WATER TEMPERATURE	TEMP	TEMPERATURE
EWTS-X	EMERGENCY WATER TEMPERING SKID DESIGNATOR	TL	TIGER LOOP
ESP	EXTERNAL STATIC PRESSURE	TOD	TOP OF DUCT
ENT	ENTERING	TSP	TOTAL STATIC PRESSURE
EXIST	EXISTING	T'STAT	THERMOSTAT
F	FAHRENHEIT	TVL	TOTAL
FC	FORWARD CURVE	TV-X	TEMPERING VALVE DESIGNATOR
FIN	FINISHED	TW	TEMPERED WATER
FLR	FLOOR	TYP	TYPICAL
FT	FEET	UH-X	UNIT HEATER DESIGNATOR
FPM	FEET PER MINUTE	V	VENT
FOS	FUEL OIL SUPPLY	VAC	VOLT-AC
FOR	FUEL OIL RETURN	VDC	VOLT-DC
GA	GAUGE	VF-X	VENTILATION FAN DESIGNATOR
GALV	GALVANIZED	WC	WATER COLUMN
GPH	GALLONS PER HOUR	WH-X	WATER HEATER DESIGNATOR
GAL	GALLONS	WG	WATER GAUGE
GPM	GALLONS PER MINUTE	W/	WITH
HD	HEAD	W/O	WITHOUT
HOA	HAND-OFF-AUTO	WPD	WATER PRESSURE DROP

SYMBOL	MANUFACTURER/MODEL	HEATED MEDIUM	FUEL	GROSS INPUT GPH	GROSS I-B-R OUTPUT (MBH)	UNIT AMPS/VOLTS/PH	LABEL	REMARKS
B-1	BURNHAM/MPO-IQ231	WATER	FUEL OIL	1.65	203	15/120/1	ASME	PROVIDE W/ BOILER CONTROL & OPTIONAL AQUASTAT LIMIT AND OUTDOOR RESET CONTROL, PROVIDE W/ LOW WATER CUTOFF AND HIGH LIMIT SWITCHES.

SYMBOL	MANUFACTURER/MODEL	FUNCTION	PUMPED MEDIUM	GPM	HEAD FT.	MOTOR DATA	REMARKS
						HP VOLTS/PH	
BP-1	GRUNDFOS/UPS 26-64F	BOILER CIRCULATION	WATER	15	10	1/12 120/60/1	PROVIDE W/ DIFFERENTIAL PRESSURE GAUGES, CONSTANT VOLUME.
CP-1	GRUNDFOS/UPS 26-150F	MAIN CIRCULATION	WATER	15	30	1/2 120/60/1	PROVIDE W/ DIFFERENTIAL PRESSURE GAUGES, CONSTANT VOLUME, SET TO SPEED 2.

			STORAGE	RECOVERY @	FUEL	GROSS INPUT	INPUT	POWER		
SYMBOL	MANUFACTURER	MODEL	CAPACITY (GAL)	90 DEG F RISE	TYPE	GPH	MBH	V/Hz/PH	LABEL	REMARKS
WH-1	BOCK	361E	91	443	OIL	3	415	120/60/1	IAPMO	PROVIDE W/ TEMPERATURE AND PRESSURE RELIEF VALVE.

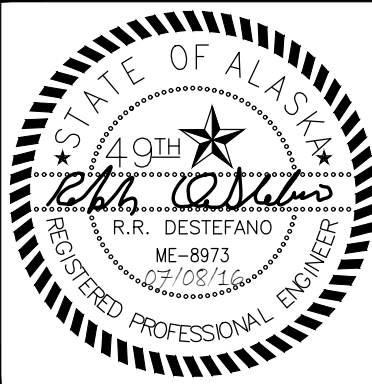
SYMBOL	MANUFACTURER/MODEL	CAPACITY MBH	GPM	MEDIUM	EGT DEG F	LGT DEG F	WPD FT HD	CFM	RPM	MOTOR DATA	REMARKS
										HP/VOLTS/PH	
UH-1	MODINE/HC-63	34	3.4	WATER	180	160	0.6	1120	1550	1/12/120/1	SIDE INLET/OUTLET CONNECTIONS.

SYMBOL	MANUFACTURER/MODEL	CAPACITY		CFM	MOTOR DATA		REMARKS
		MBH	KW		HP	VOLTS/AMPS/PH	
UH-2	MODINE/HEX-10	34	10	3950	1/2	208/28/3	PROVIDE EXPLOSION PROOF MODEL W/ EXPLOSION PROOF THERMOSTAT.
UH-3	MODINE/HEX-7.5	26	7	850	1/2	208/21/3	PROVIDE EXPLOSION PROOF MODEL W/ EXPLOSION PROOF THERMOSTAT.

						TSP	FAN	MOTOR DATA				
SYMBOL	MANUFACTURER	MODEL	TYPE	SERVICE	CFM	IN WC	RPM	POWER	VOLTS/PH	DRIVE	SONES	REMARKS
EF-1,2,3,4,5,6	GREENHECK	SP-B150	CEILING	RESTROOMS	100	0.5	815	128 W	120/1	DIRECT	2	WITH BACK DRAFT DAMPER.
EF-7	GREENHECK	SQ-120-A	INLINE	BILGE TREATMENT	1800	0.5	1725	1/2 HP	120/1	DIRECT	13.5	PROVIDE EXPLOSION PROOF MODEL.
VF-1	GREENHECK	SE1-12-432	INLINE	MECHANICAL ROOM	350	0.35	1160	1/6 HP	120/1	DIRECT	--	PROVIDE W/FAN GUARD, INTEGRAL DISCONNECT, BACKDRAFT DAMPER.

			STORAGE	RECOVERY @	INPUT	POWER		
SYMBOL	MANUFACTURER	MODEL	CAPACITY (GAL)	100 DEG F RISE	KW	VOLTS/AMPS/Hz/PH	LABEL	REMARKS
EWTs-1	HAWS	8780	119	45	4	208/40/60/1		PROVIDE W/ EXPLOSION PROOF ELECTRICAL PANEL, TEMPERATURE AND PRESSURE RELIEF VALVE.

			COOLING				POWER			
SYMBOL	MANUFACTURER	MODEL	NOMINAL TON	MBH	EDB	EWB	VOLTS/PH	FLA	SEER	REMARKS
CU-1	mitsubishi	PUY-A18NHA	1.5	18000	80	67	208/1	15	14.2	PROVIDE W/ CONTROLLER PAR-21MAA.
EU-1	mitsubishi	PLA-A18BA	1.5	18000	80	67	--	--	--	PROVIDE W/ CONTROLLER PAR-21MAA AND CONDENSATE PUMP. POWER FOR THE OUTDOOR UNIT, <u>EU-1</u> , IS PROVIDED THROUGH THE INDOOR UNIT, <u>CU-1</u> .



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City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

[illegible]

Drawn By: ECGB	Checked By: RRD
Date: JULY 08, 2016	
Phase: BID DOCUMENTS	
Project No: L2233.2	
SHEET TITLE: MECHANICAL SCHEDULES	

PLUMBING FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	MOUNTING	CW	HW	WASTE	VENT	TRAP	COLOR	TRIM/REMARKS
P-1	KOHLER	K-4325 KINGSTON	WATER CLOSET-ADA	WALL	1	--	4	2	--	WHITE	KOHLER K-4731 ELONGATED OPEN FRONT SEAT, SLOAN ROYAL 111 1.6 GAL. FLUSH VALVE.
P-2	KOHLER	K-4325 KINGSTON	WATER CLOSET	WALL	1	--	4	2	--	WHITE	KOHLER K-4731 ELONGATED OPEN FRONT SEAT, SLOAN ROYAL 111 1.6 GAL. FLUSH VALVE.
P-3	KOHLER	K-4989-T FRESHMAN	URINAL-ADA	WALL	3/4	--	2	1 1/2	--	WHITE	SLOAN ROYAL 186-1 1.0 GAL. FLUSH VALVE, WALL CARRIER FOR HC HEIGHT.
P-4	KOHLER	K-2005-O KINGSTON	LAVATORY	WALL	1/2	1/2	1 1/2	1 1/2	1 1/2	WHITE	PROVIDE W/ DELTA FAUCET 523 WF HDF W/ GRID STRAINER, ASSE 1070 TEMPERING VALVE.
P-5	JUST	SL-2037-A-GR	SINK	COUNTER	1/2	1/2	2	1 1/2	1 1/2	STAINLESS	DELTA FAUCET 711-LFHDF, GRID STRAINER
P-6	ACORN	1736ADA-A	SHOWER	FLOOR	1/2	1/2	2	1 1/2	2	STAINLESS	DELTA FAUCET T13H152, PRESS. BALANCED, ADJUSTABLE STOPS, HAND HELD SPRAYHEAD WITH ON-OFF, 69" METAL BRAIDED HOSE, VACUUM BREAKER, 24" WALL BAR, PHENOLIC SEAT TYPE 304 18 GA GRAB BARS, 1" S.S. CURTAIN ROD W/ COMMERCIAL GRADE VINYL SHOWER CURTAIN, RIGHT OR LEFT HAND ARRANGEMENT PER ARCHITECTURAL.
P-7	GUY GRAY	T-200	WASHER BOX	WALL	1/2	1/2	2	1 1/2	2	WHITE	WITH ISOLATION VALVES.
FD-1	J.R. SMITH	2005-A	FLOOR DRAIN	FLOOR	--	--	2	1-1/2	2	--	ROUND TOP, TRAP PRIMER CONNECTION.
HB-1	WOODFORD	65	HOSE BIBB - FROST PROOF	WALL	3/4	--	--	--	--	--	TEE HANDLE.
RD-1	J.R. SMITH	1015	ROOF DRAIN	--	--	--	3	--	--	--	ADJUSTABLE EXTENSION, UNDERDECK CLAMP, CAST IRON DOME.
OD-1	J.R. SMITH	1045	ROOF DRAIN - OVERFLOW	--	--	--	3	--	--	--	ADJUSTABLE EXTENSION, UNDERDECK CLAMP, CAST IRON DOME, 2" WATER DAM.
EWS-1	HAWS	8300-8309	EMERGENCY EYEWASH/SHOWER	FLOOR	1-1/4	1-1/4	1-1/4	--	--	--	

TEMPERING VALVE SCHEDULE

SYMBOL	MANUFACTURER	MODEL	FINISH	INLET SIZE	OUTLET SIZE	TEMPERATURE RANGE (DEG F)	SET POINT (DEG F)	FLOW RATE	PRESSURE DROP	ACCESSORIES/REMARKS
TV-1	LAWLER	803	PLAIN BRONZE	1-1/4"	1-1/2"	90° TO 120°F	120	20 GPM	10 PSI	LIQUID FILLED DIAL THERMOMETER. INTEGRAL CHECK STOPS, REMOVABLE STRAINER.

AIR SEPARATOR SCHEDULE

SYMBOL	MFGR/MODEL	FUNCTION	SYSTEM SERVED	SIZE	FLOW	MAXIMUM WORKING		CONNECTIONS	REMARKS
						PRESSURE	TEMPERATURE		
AS-1	SPIROVENT/VDR-125	AIR/DIRT SEPARATION	HEATING FLUID	1-1/4"	15 GPM	150 PSI	270 DEG. F	NPT	SURFACE AND BOTTOM BLOWDOWN.

TANK SCHEDULE

						TANK CAPACITY			
SYMBOL	MANUFACTURER	MODEL	FUNCTION	MEDIUM	MATERIAL	(GAL)	DIMENSIONS	LABEL	REMARKS
FT-1	ANCHORAGE TANK	AT1MULAG	HEATING OIL TANK	HEATING OIL	STEEL	1,000	64"ø x 7'L	UL-142	PROVIDE W/ ACCESSORIES AS INDICATED IN DETAIL.
DT-1	SIMPLEX	SST	HEATING OIL DAY TANK	HEATING OIL	STEEL	25	31"L x 29"W x 62"H	UL-142	25 GALLON, DOUBLE WALL DAY TANK W/ INTEGRAL CONTROLS, DUPLEX 2.0 GPM HEAVY DUTY SUPPLY PUMPS (1/3HP), 4.0 GPM HEAVY DUTY RETURN PUMP (1/3HP).

EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER/MODEL	FUNCTION	MEDIUM	MATERIAL	TANK VOLUME		DIMENSIONS	LABEL	REMARKS
					TOTAL (GAL)	ACCEPTANCE (GAL)			
ET-1	AMTROL/AX-40V	HEATING SYSTEM	WATER	STEEL	21.7	11.3	30"Hx16"Ø	--	PRECHARGE TO 12 PSIG.
ET-2	AMTROL/ST-12	DOMESTIC HW	WATER	STEEL	6.4	3.2	18"Hx12"Ø	--	PRECHARGE TO INCOMING WATER PRESSURE.

RADIANT PANEL SCHEDULE

SYMBOL	MANUFACTURER	MODEL	EGT	LGT	GPM	PD (FT HD)	BTU/FT	PANEL SIZE	REMARKS
RP-1	ENGINEERED AIR	AIRTEX HF-2	180	160	PER PLANS	<1	389	24" w x PLANS	PROVIDE BLANK PANELS FOR VALVE ACCESS WHERE INDICATED ON PLANS.

LOUVER SCHEDULE

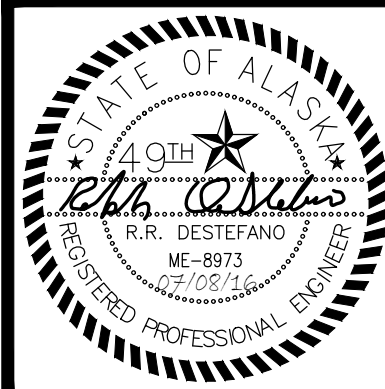
SYMBOL	MANUFACTURER	MODEL	SERVICE	MATERIAL	FINISH	SIZE (IN.)	REMARKS
L-1	RUSKIN	ELF375DX	MAKE-UP, EXHAUST, OR COMBUSTION AIR	ALUMINUM	MILL.	PER PLANS	

AIR INLET/OUTLET SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TYPE	USE	MATERIAL	FINISH	CFM	FACE SIZE (IN.)	NC	REMARKS
	TITUS	50F	WALL	MULTIPLE	ALUMINUM	MILL.	PER PLANS	PER PLANS	<25	

WHA SCHEDULE

SYMBOL	SIZE	FIXTURE UNITS
WHA-A	1/2"	1-11
WHA-B	3/4"	12-32
WHA-C	1"	33-60
WHA-D	1-1/4"	61-113
WHA-E	1-1/2"	114-154
WHA-F	2"	155-330

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Drawn By: ECGB	Checked By: RRD
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Date: JULY 08, 2016

Phase:
BID DOCUMENTS

Project No:
L2233.2

SHEET TITLE:
MECHANICAL SCHEDULES

SHEET NO:
77 OF 100



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Corporate No. AECC342

City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

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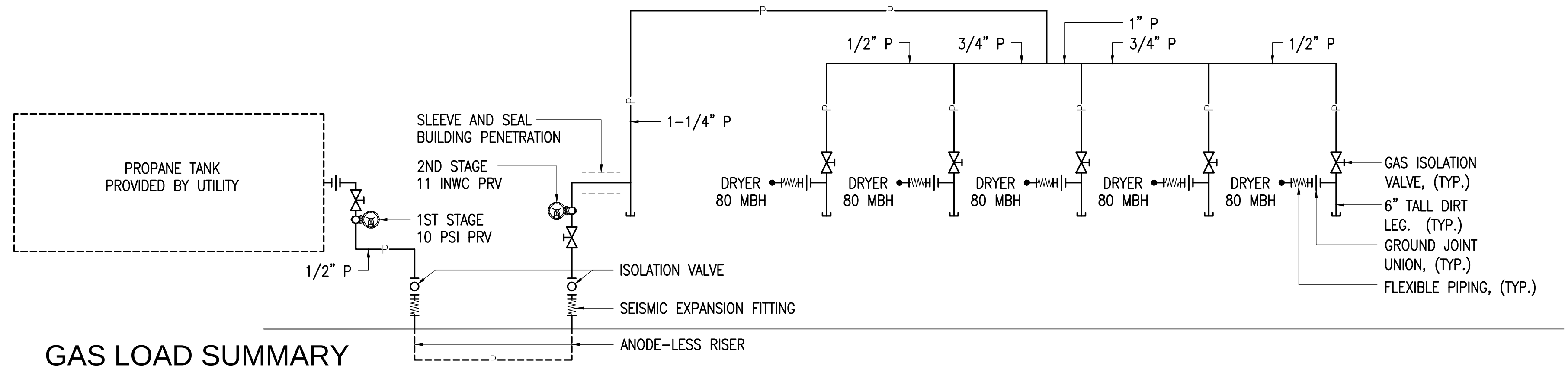
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JULY 08, 2016	
PROJECT: IND DOCUMENTS	
Project No.: 2233.2	
PROJECT TITLE: WAREHOUSE MECHANICAL BELOW FLOOR PLUMBING PLAN	

78 OF 100

M3.1

1 1/2" P DN FROM 1ST STAGE PRESSURE REGULATOR, ROUTE TO WAREHOUSE BELOW GRADE. PROVIDE ISOLATION VALVE, 1ST STAGE 10PSI PRESSURE REGULATION VALVE, SEISMIC EXPANSION JOINT. AND ANODE-LESS RISER PER CODE.

2 1/2" P UP ABOVE GRADE TO 2ND STAGE 11 INWC PRESSURE
REGULATOR. PROVIDE ANODE-LESS RISER AND FLEXIBLE GAS
PIPING FITTING AT TRANSITION TO ABOVE GRADE.



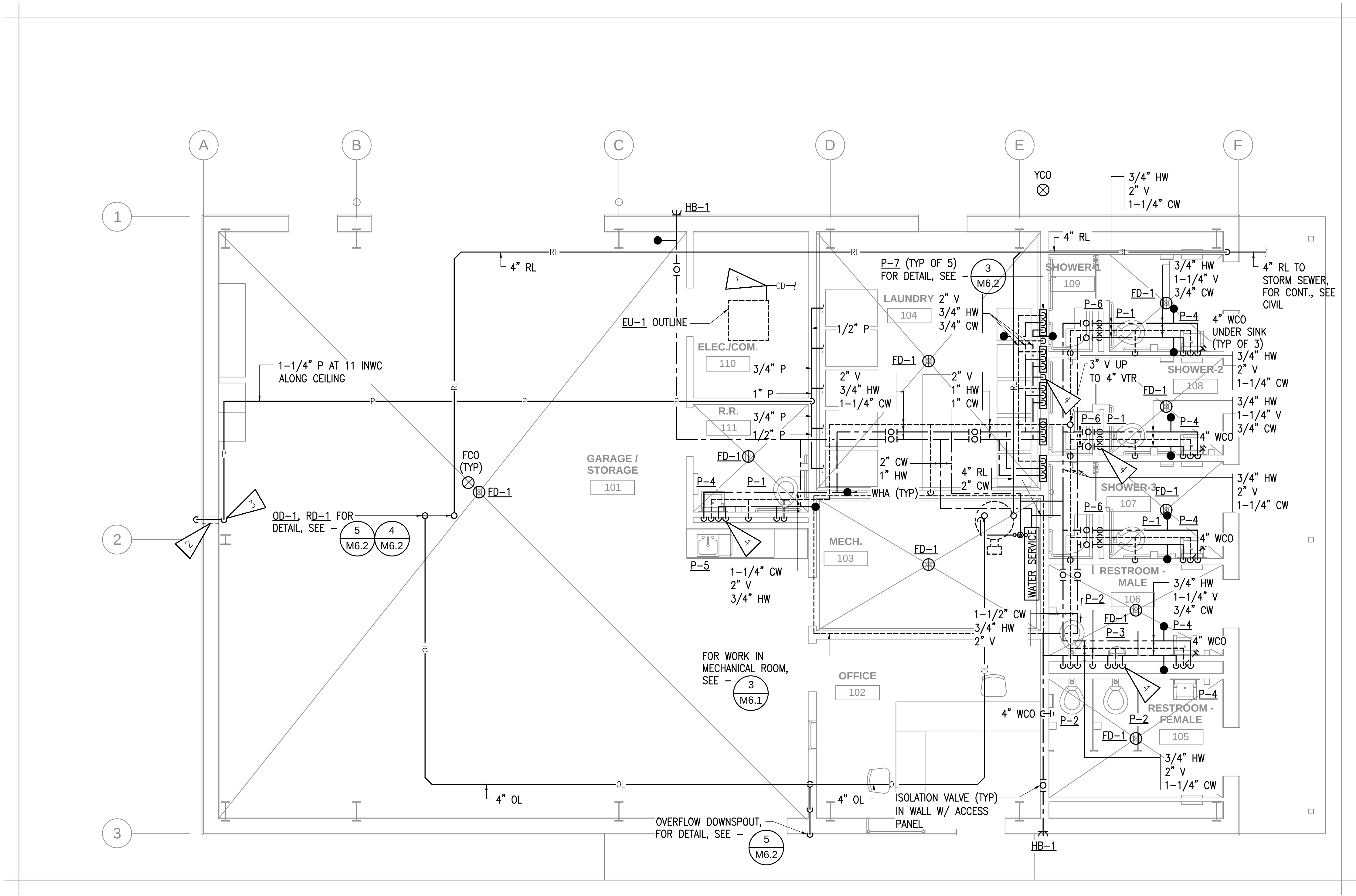
METALLIC PIPE TABLE:	2012 IFGC
GAS PRESSURE:	<2 PSI
TOTAL DEVELOPED LENGTH:	100'
TOTAL LOAD:	400 MBH

2 GAS PIPING SCHEMATIC

NO SCALE

G:\2012\L2233.20\L2233.20 - MSeries.dwg

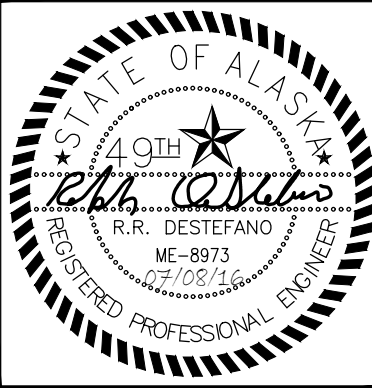
Plotted 7/7/2016 9:40 AM by Charles Bergeron



1 WAREHOUSE ABOVE FLOOR PLUMBING PLAN
1/4" = 1'-0"

SHEET NOTES:

- 1 ROUTE CONDENSATE DRAIN FROM EU-1 TO FLOOR DRAIN, FD-1, IN MECHANICAL ROOM.
- 2 11 INWC 1-1/4" P INTO WAREHOUSE BUILDING, SLEEVE AND SEAL PENETRATION.
- 3 PROVIDE SEDIMENT TRAP INSIDE WAREHOUSE BUILDING PER CODE.
- 4 TRAP PRIMER IN WALL W/ ACCESS PANEL.



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Corporate No. AEC0342

City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

CITY OF VALDEZ, ALASKA • GATEWAY TO THE INTERIOR

No.	Description	Date

Drawn By ECGB	Checked By RRD
Date JULY 08, 2016	

SHEET NO:
79 OF 100

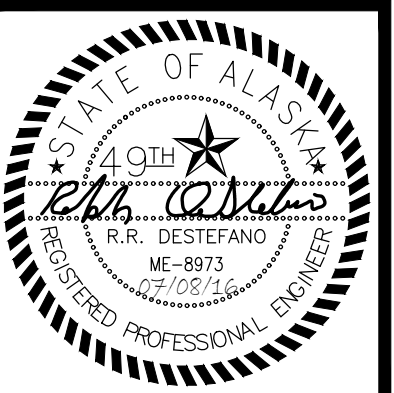
M3.2

[illegible]

Drawn By: CCGB	Checked By: RRD
Date: JULY 08, 2016	
Project Name: BID DOCUMENTS	
Project No: L2233.2	
Sheet Title: WAREHOUSE MECHANICAL ROOF PLAN	

HEET NO:
80 OF 100

M3.3



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CITY OF VALDEZ, ALASKA
GATEWAY TO THE INTERIOR

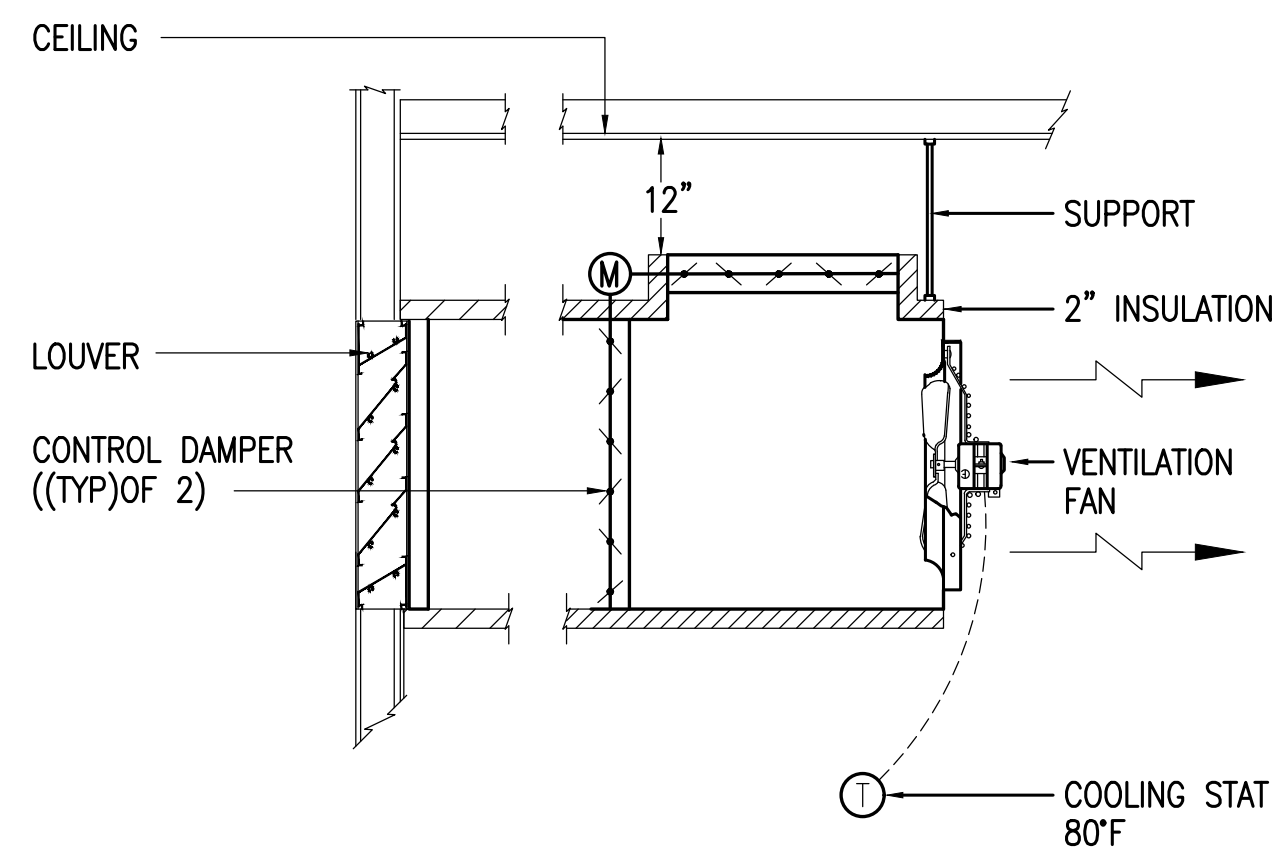
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Drawn By: ECGB	Checked By: RRD
Date: JULY 08, 2016	
Phase: BID DOCUMENTS	
Project No: L2233.2	
SHEET TITLE: WAREHOUSE MECHANICAL HEATING PLAN	

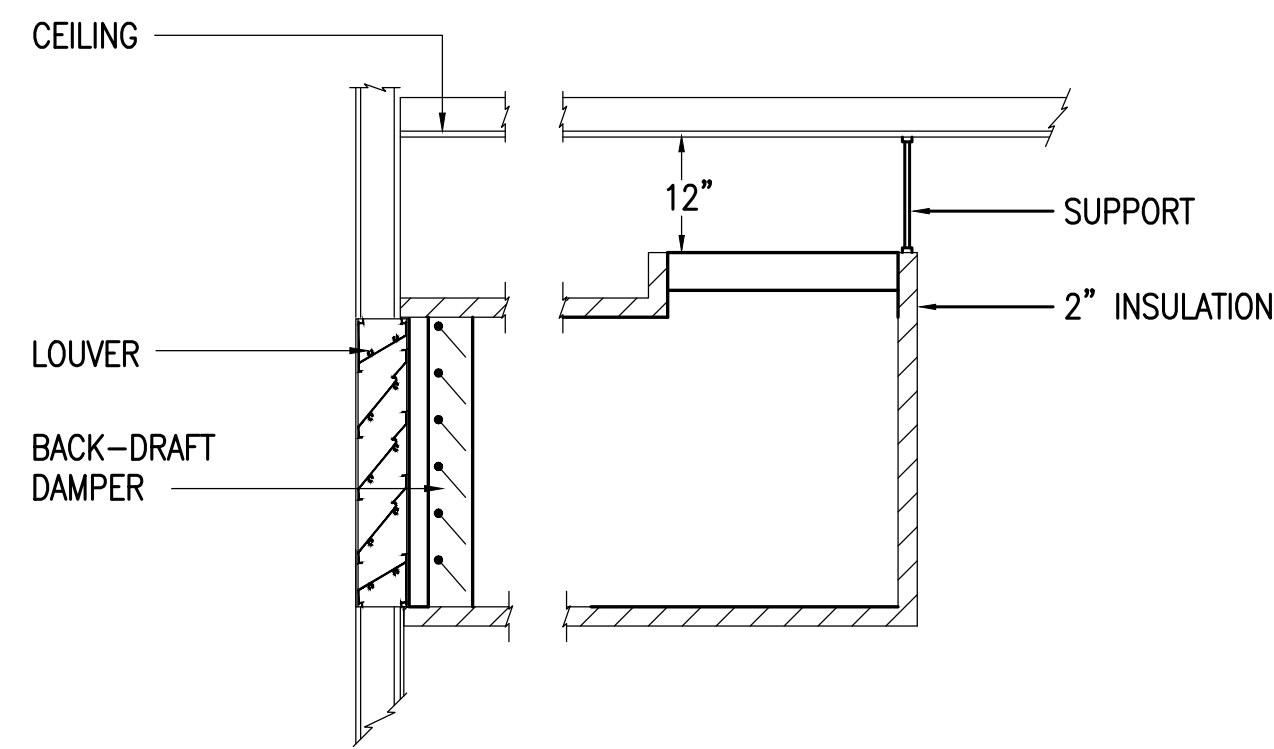
SHEET NO:

81 OF 100

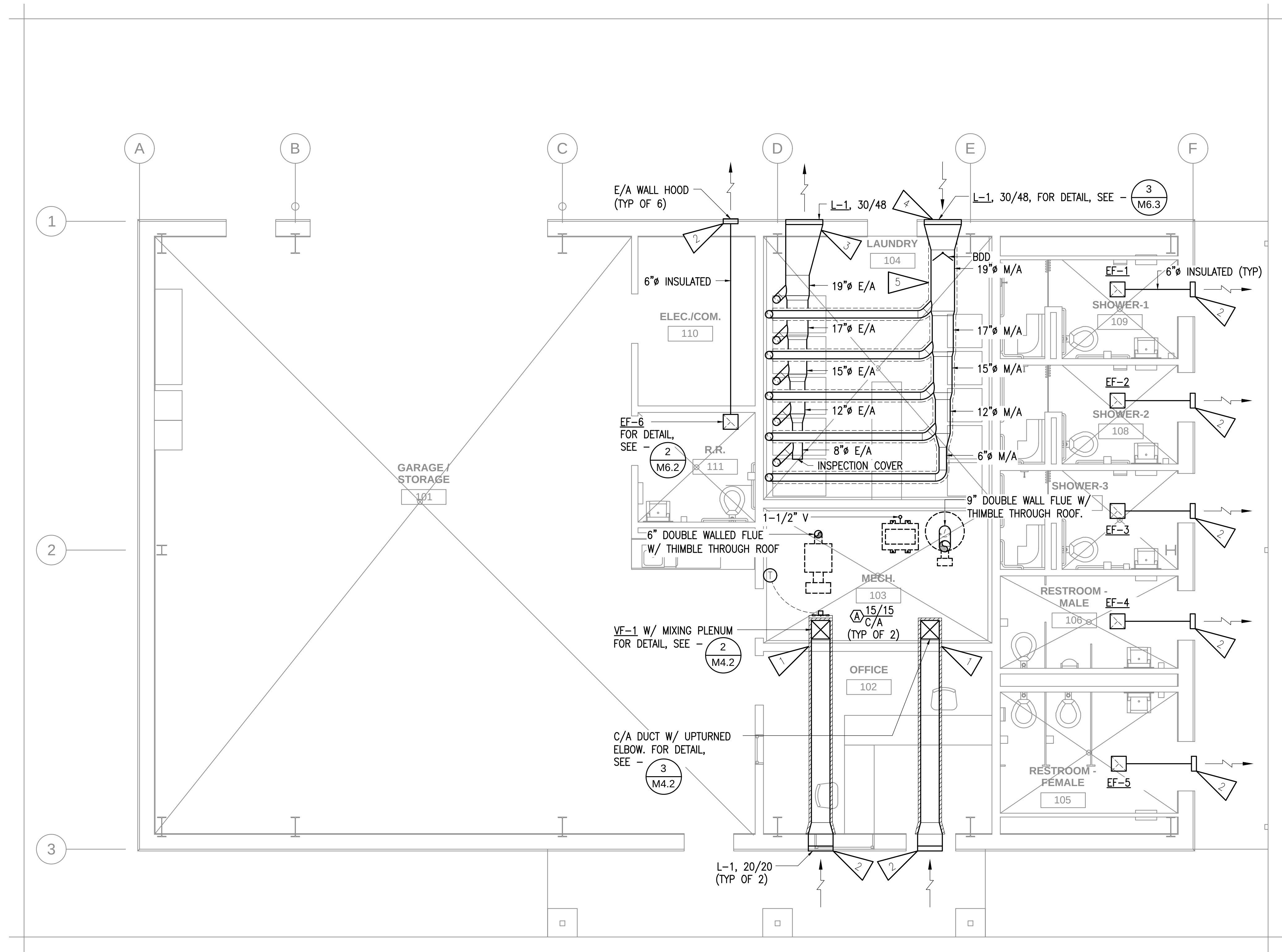
M4.1



2 VENTILATION FAN DETAIL
1/4" = 1'-0"



3 COMBUSTION AIR DETAIL
1/4" = 1'-0"



1 WAREHOUSE VENTILATION PLAN
1/4" = 1'-0"

SHEET NOTES:

- 1 PROVIDE FIRE CAULK ON COMBUSTION AIR DUCTING PENETRATIONS.
- 2 EXHAUST & COMBUSTION AIR LOUVERS TO BE MOUNTED AT 15' AFF.
- 3 DRYER EXHAUST LOUVER TO BE MOUNTED BETWEEN 6' AFF.
- 4 DRYER MAKE-UP AIR LOUVER TO BE MOUNTED AT 13' AFF.
- 5 INSULATE MAKE-UP AIR DUCT FROM LOUVER TO CEILING PENETRATION INTO LAUNDRY ROOM.



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City of Valdez
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UPLAND FACILITIES

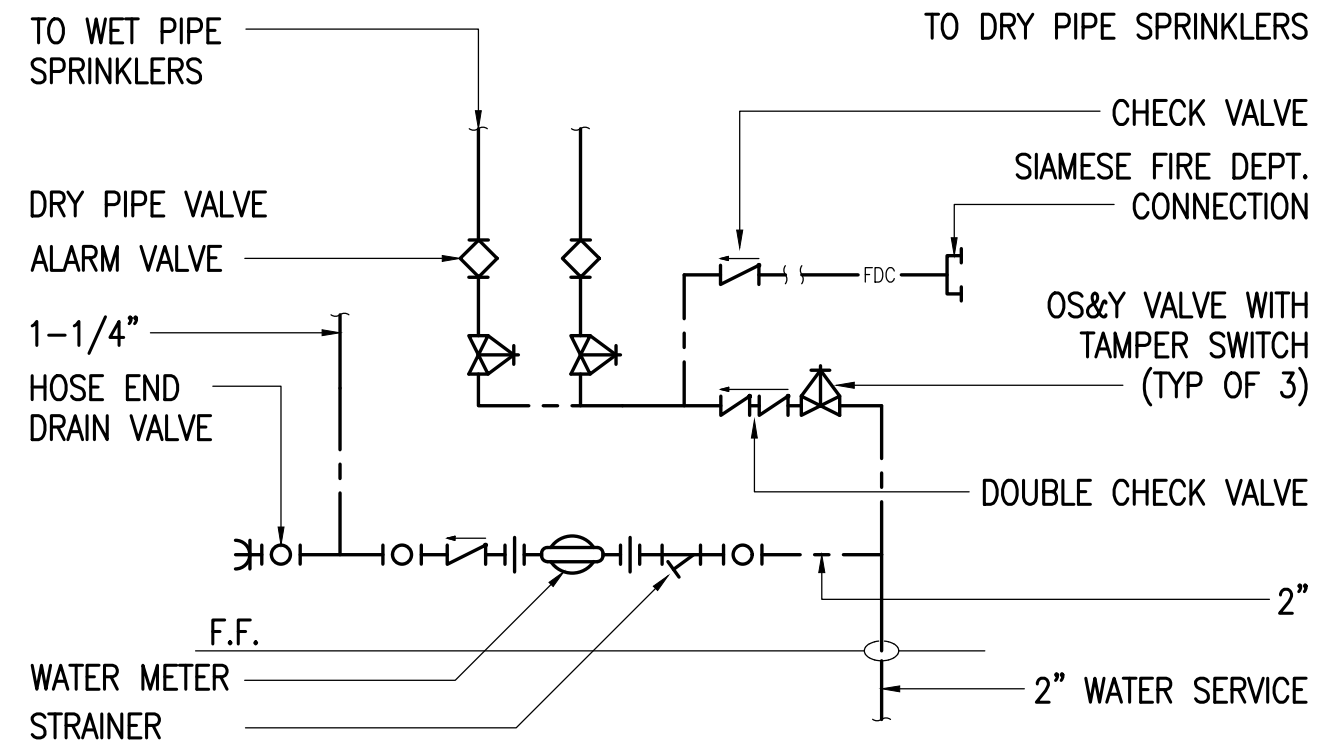


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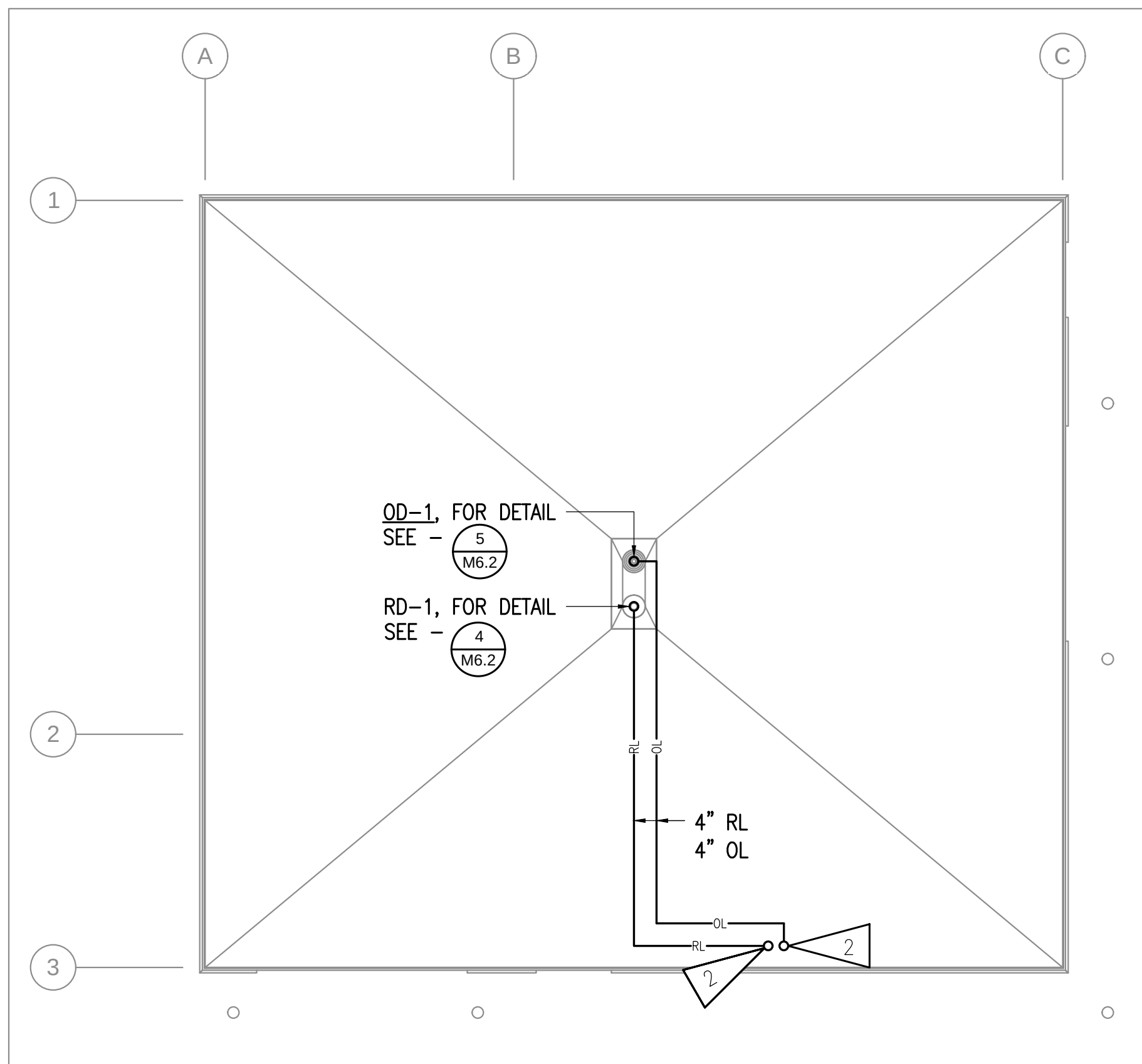
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Checked By: RRD
Date: JULY 08, 2016
Project: BID DOCUMENTS
Project No: L2233.2
SHEET TITLE: WAREHOUSE MECHANICAL VENTILATION PLAN

SHEET NO: 82 OF 100

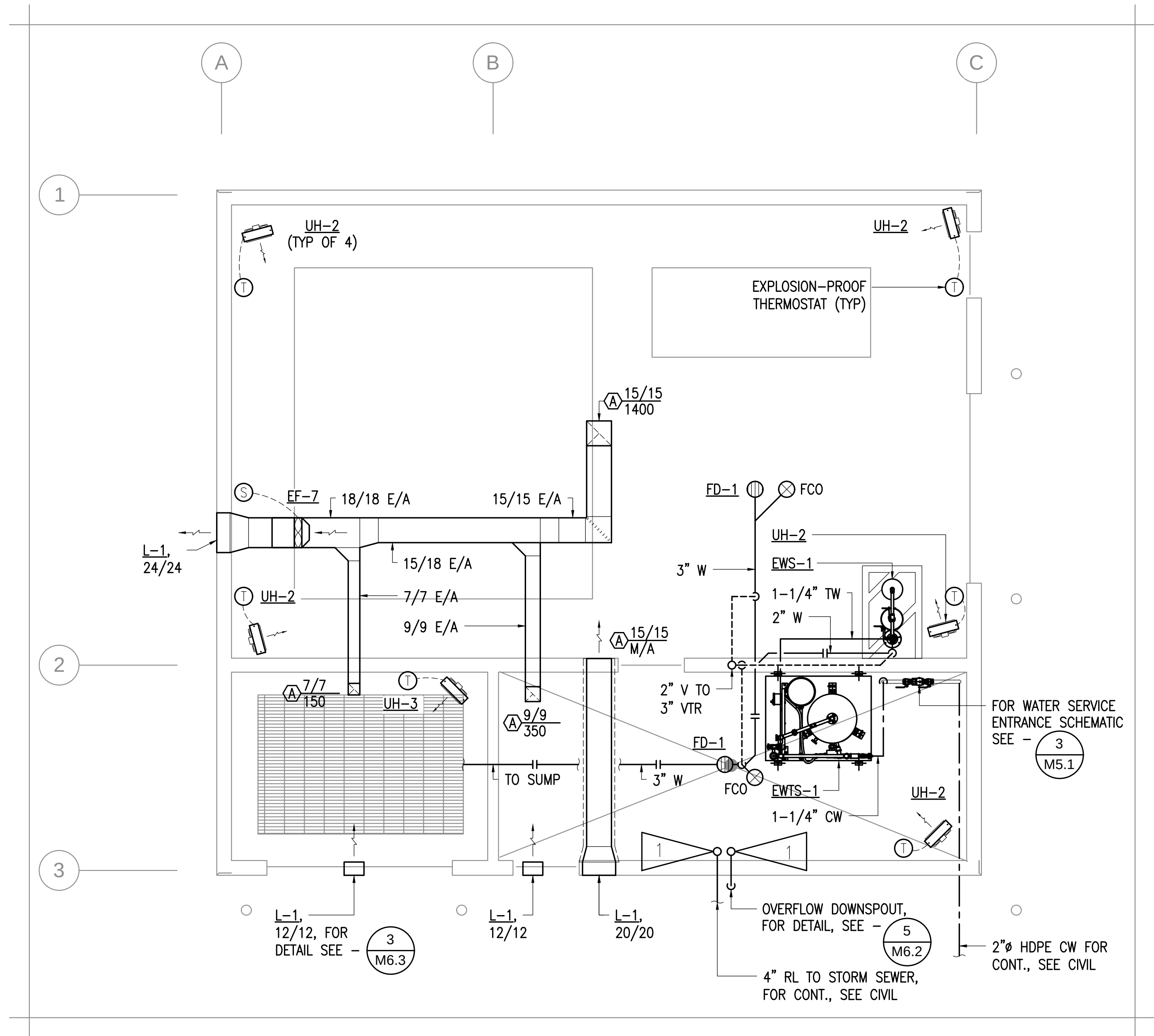
M4.2



3 BILGE TREATMENT BLDG WATER SERVICE ENTRANCE SCHEMATIC
NO SCALE



2 BILGE TREATMENT BUILDNG ROOF PIPING PLAN
1/4" = 1'-0"



NOTE: BILGE HOUSE IS A CLASSIFIED SPACE, PROVIDE EXPLOSION PROOF/SPARK RESISTANT EQUIPMENT AND MATERIALS AS REQUIRED. REFER TO ELECTRICAL/ARCHITECTURAL FOR CLASSIFICATION

1 BILGE TREATMENT BUILDNG PLUMBING, HEATING, & VENTILATION PLAN
1/4" = 1'-0"

SHEET NOTES:

- 1 FOR CONTINUATION, SEE - 2
2 FOR CONTINUATION, SEE - 1



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Corporate No. AEC0342

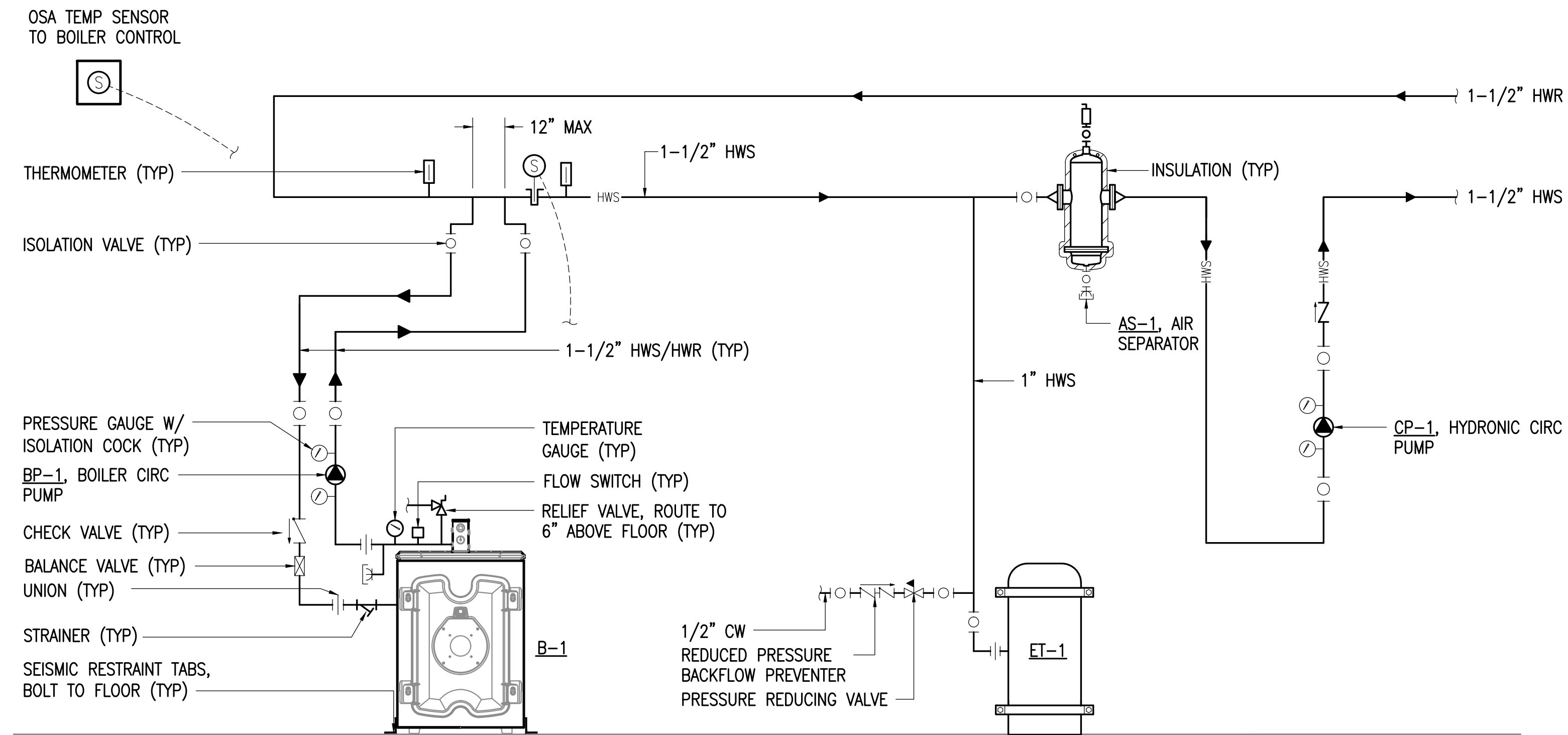


No.	Description	Date

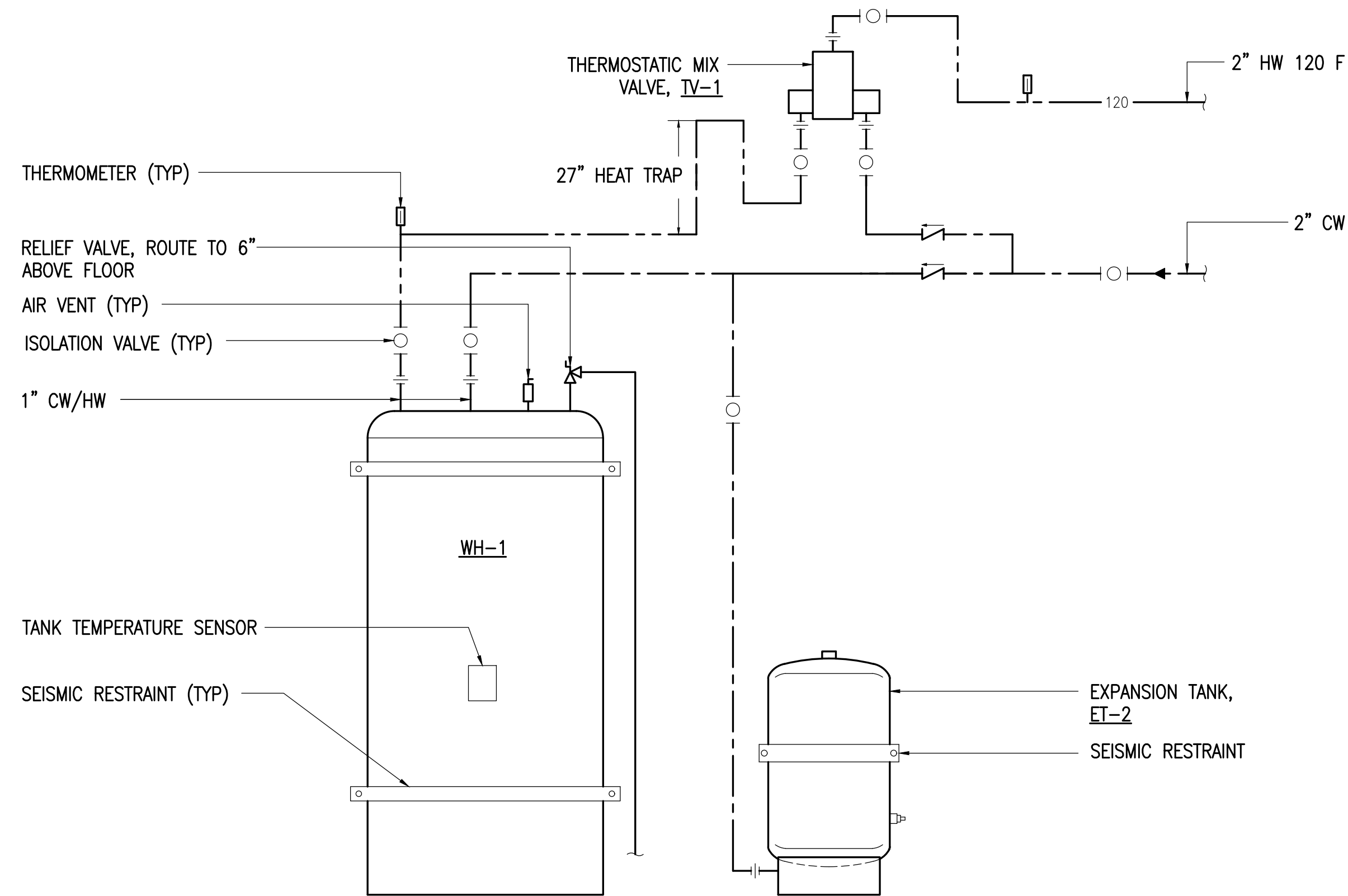
Drawn By: ECGB
Date: JULY 08, 2016
Checked By: RRD
Project: BID DOCUMENTS
Project No: L2233.2
SHEET TITLE: MECHANICAL BILGE TREATMENT BUILDING PLAN

SHEET NO: 83 OF 100

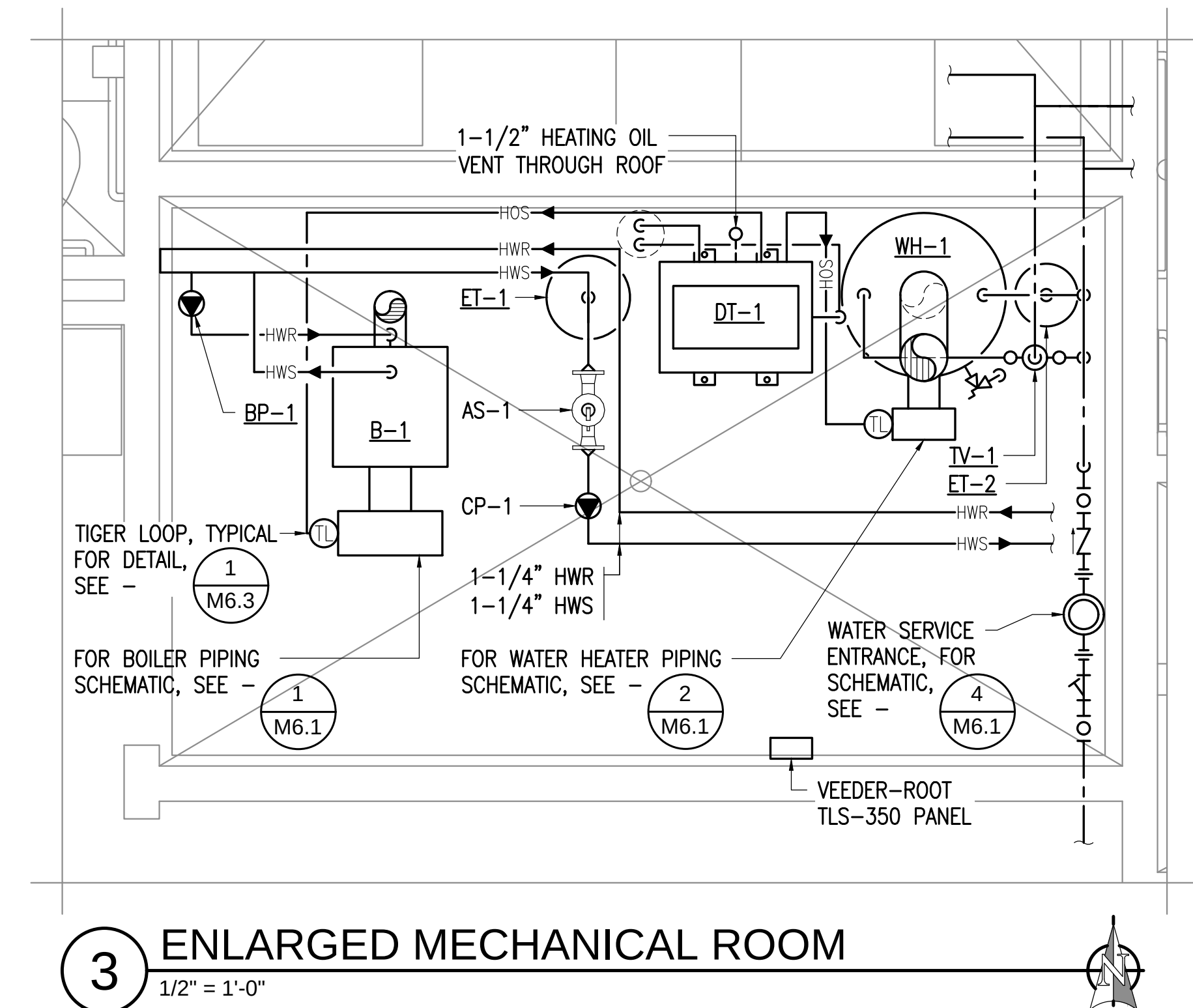
M5.1



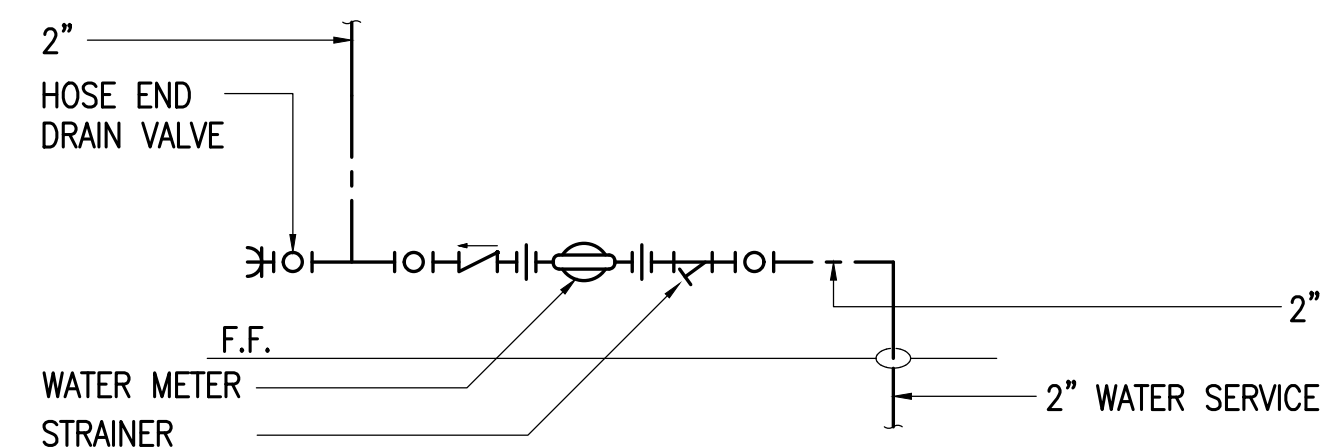
1 WAREHOUSE BOILER PIPING SCHEMATIC
NO SCALE



2 WAREHOUSE WATER HEATER PIPING SCHEMATIC
NO SCALE



3 ENLARGED MECHANICAL ROOM
1/2" = 1'-0"



4 WAREHOUSE WATER SERVICE ENTRANCE SCHEMATIC
NO SCALE



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No.	Description	Date

Drawn By: ECGB
Date: JULY 08, 2016
Checked By: RRD
Project: BID DOCUMENTS
Project No: L2233.2
SHEET TITLE: WAREHOUSE MECHANICAL SCHEMATICS & ENLARGED PLAN

SHEET NO:
84 OF 100

M6.1



City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

[illegible]

Drawn By: CGB	Checked By: RRD
JULY 08, 2016	
Subject: DO DOCUMENTS	
Sheet No: 2233.2	
DET TITLE: WAREHOUSE MECHANICAL DETAILS	

HEET NO:

85 OF 100

M6.2

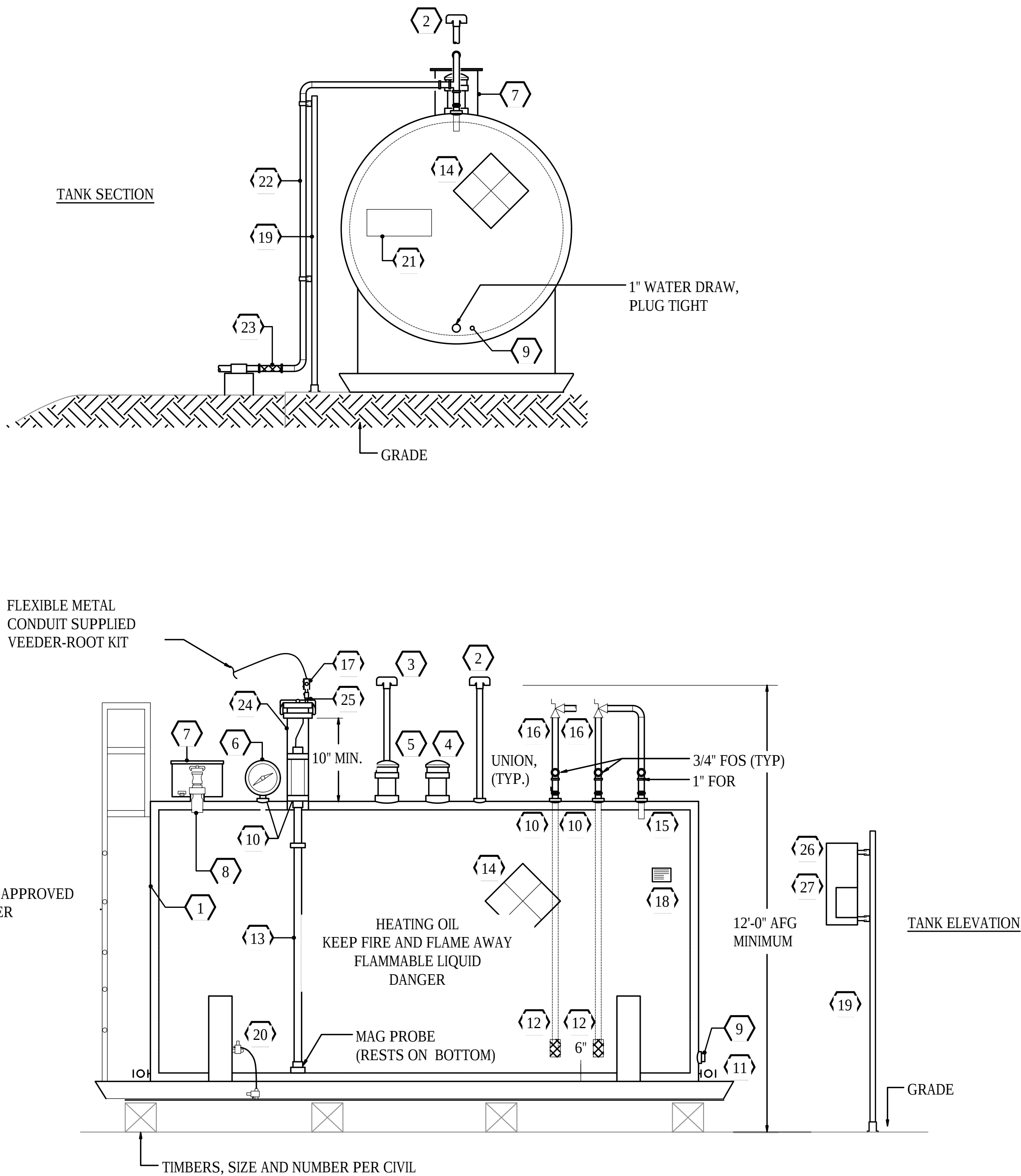
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Drawn By: CGB	Checked By: RRD
DATE: JULY 08, 2016	
PROJECT: ROAD DOCUMENTS	
SHEET NO: 2233.2	
SHEET TITLE: PLANDS FACILITIES MECHANICAL SCHEMATIC DETAILS	

HEET NO:
86 OF 100

M6.3

Plotted 7/7/2016 9:40 AM by Charles Bergeron G:\2012\L2233.20\L2233.20 - MSeries.dwg



1 HEATING OIL FUEL TANK DETAIL
NO SCALE

- 1 FOT-1; 1,000 GALLON DOUBLE WALL SKID MOUNTED FUEL OIL STORAGE TANK, ANCHORAGE TANK/ AT1 MULAG OR APPROVED EQUAL.
- 2 PRIMARY TANK VENT
- 3 SECONDARY TANK VENT
- 4 PRIMARY EMERGENCY VENT
- 5 SECONDARY EMERGENCY VENT
- 6 MECHANICAL CLOCK TYPE TANK GAUGE
- 7 SPILL CONTAINMENT CONTAINER, UL LISTED, 7 GALLON, PUSH TO OPEN DRAIN, LOCKABLE COVER.
- 8 4" FPT TAPPING.
- 9 2" FPT SECONDARY MONITOR TAPPING, PLUGGED.
- 10 2" FPT TAPPING.
- 11 1" FROST PROOF DRAIN VALVE.
- 12 SINGLE POPPET FOOT VALVE WITH MONEL 20 MESH INTAKE SCREEN. PROVIDE TANK BUSHING AS REQUIRED.
- 13 VEEDER-ROOT MAG PLUG PROBE ASSEMBLY; FIELD VERIFY LENGTH WITH INSTALLED FUEL TANK.
- 14 WARNING AND PRODUCT LABELS IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE.
- 15 4" FPT TAPPING, PROVIDE TANK BUSHING AS REQUIRED.
- 16 EXPANSION RELIEF VALVE, MORRISON BROS. MODEL 76DI. ROUTE OUTLET FULL SIZE TO FUEL OIL RETURN.
- 17 LIQUIDTIGHT FITTINGS FROM VEEDER-ROOT KIT.
- 18 U.L. PLACARD
- 19 PROVIDE GALVANIZED STRUT TYPE PIPING SUPPORT. PROVIDE LATERAL IN TWO DIRECTIONS. UTILIZE UNI-STRUT POST BASE #P2072A. ALL EXTERIOR HARDWARE SHALL BE HOT DIPPED GALVANIZED.
- 20 PROVIDE TANK GROUND AS PER THE NEC. INSTALL #4 BARE COPPER CONDUCTOR FROM TANK GROUNDING LUG TO 10' LONG x 3/4" COPPER CLAD STEEL GROUND ELECTRODE.
- 21 LABEL TANK CONTENTS PER IFC ON ALL FOUR SIDES.
- 22 3/4" FUEL OIL SUPPLY (FOS) AND 1" FUEL OIL RETURN (FOR) TO GENERATOR AND BOILERS, SEE PLAN AND DETAILS.
- 23 18" FLEXIBLE CONNECTION.
- 24 RISER PIPE: 10" MINIMUM ELEVATION. INCREASE MINIMUM DIMENSION TO COMPENSATE WHEN INSTALLING A PROBE LONGER THAN THE TANK DIAMETER.
- 25 USE BUSHING AND BODY OF GRIP FITTING SUPPLIED WITH PROBE AND ADAPTER NUT SUPPLIED WITH VEEDER-ROOT KIT.
- 26 OVERFILL ALARM/ HORN STROBE.
- 27 WEATHERPROOF JUNCTION BOX FOR TANK LEVEL SENSOR/ANNUNCIATOR WITH 1/2" NPT THREADS (16 CUBIC INCH MINIMUM).
- 28 ALL UNUSED TANK TAPPINGS SHALL BE PLUGGED.



No.	Description	Date

Drawn By: ECGB	Checked By: RRD
Date: JULY 08, 2016	
Project No: L2233.2	

SHEET TITLE: UPLANDS FACILITIES MECHANICAL DETAIL
SHEET NO: 87 OF 100
M6.4



1. PROVIDE EMERGENCY OPTION EL14L WHERE NOTED ON PLANS.
2. PROVIDE EMERGENCY OPTION LEL WHERE NOTED ON PLANS.
3. PROVIDE EMERGENCY OPTION E7W WHERE NOTED ON PLANS.
4. PROVIDE EMERGENCY OPTION EM WHERE NOTED ON PLANS.

	ROUND LIGHT FIXTURE – PENDANT OR SURFACE MTD CLG		FRACTIONAL HORSEPOWER MOTOR STARTER
	EMERGENCY EXIT LIGHT – SURFACE MTD WALL		TELECOMMUNICATIONS OUTLET (COMBINATION TELEPHONE & DATA)
	LINEAR EMERGENCY FIXTURE		TELECOMMUNICATIONS FLOOR OUTLET
	LINEAR LIGHT FIXTURE – RECESS MTD		WIRELESS ACCESS POINT
	LINEAR LIGHT FIXTURE – SURFACE MTD CLG		FIRE ALARM CONTROL PANEL
	LINEAR LIGHT FIXTURE – PENDANT MTD		FIRE ALARM PULL STATION
	LINEAR LIGHT FIXTURE – WALL MTD		FIRE ALARM HORN/STROBE LIGHT (WALL, CLG MOUNTED)
	FIXTURE TAG (LETTER INDICATES TYPE)		NOTE TAG (No. INDICATES NOTE)
	SINGLE POLE SWITCH		ABOVE FINISHED FLOOR
	SINGLE POLE SWITCH (LOWERCASE LETTER INDICATES SWITCHING)		ABOVE FINISHED GRADE
	THREE WAY SWITCH, FOUR WAY SWITCH		CONDUIT
	DIMMER SWITCH		CONDUIT ONLY
	OCCUPANCY SENSOR		DENOTES EXISTING ITEM
	LIGHTING CIRCUIT TAG (PANEL AND CIRCUIT No.)		DENOTES EMERGENCY POWER
	CONDUIT, CONCEALED		GROUND FAULT CIRCUIT INTERRUPTER
	NUMBER AND SIZE OF WIRES (NO MARKS = 3 #12)		GALVANIZED RIGID STEEL CONDUIT
	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)		LIGHT EMITTING DIODE
	PANEL		MAIN CIRCUIT BREAKER
	DUPLEX RECEPTACLE		MAIN LUGS ONLY
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER		NATIONAL ELECTRICAL CODE
	QUADRAPLEX RECEPTACLE		NOT TO SCALE
	SPECIAL PURPOSE OUTLET		TELEPHONE TERMINAL BACKBOARD
	RECEPTACLE FLOOR OUTLET – DUPLEX, QUADRAPLEX		TRANSIENT VOLTAGE SURGE SUPPRESSION
	CORD REEL		TYPICAL
	JUNCTION BOX		UNLESS OTHERWISE NOTED
	PUSHBUTTON		WIRELESS ACCESS POINT
	MOTOR (SIZED AS NOTED)		WEATHERPROOF

[illegible]

SHORT CIRCUIT CALCULATION SUMMARY WAREHOUSE BUILDING

AVAILABLE FAULT CURRENT AT UTILITY XFMR:	INFINITE BUS
UTILITY TRANSFORMER SIZE:	50 KVA
UTILITY TRANSFORMER IMPEDENCE:	1.50 %
SERVICE LATERAL # PARALLEL RUNS:	1 EA.
SERVICE LATERAL SIZE:	#3/0 KCMIL
SERVICE LATERAL LENGTH:	50 FEET
SERVICE LATERAL CONDUIT TYPE:	METALLIC
TOTAL MOTOR CONTRIBUTIONS:	147 AMPS

NOTE: VERIFY THE ABOVE TRANSFORMER RATINGS AND SERVICE LATERAL SIZE/TYPE WITH LOCAL UTILITY PRIOR TO ORDERING EQUIPMENT. ADJUST EQUIPMENT SHORT CIRCUIT RATINGS ACCORDINGLY BASED ON ACTUAL EQUIPMENT INSTALLED BY UTILITY. INSTALL LABEL ON SERVICE EQUIPMENT INDICATING DATE AND FINAL CALCULATION RESULTS PER NEC 110.24.

SHORT CIRCUIT CALCULATION SUMMARY BILGE WATER TREATMENT

AVAILABLE FAULT CURRENT AT UTILITY XFMR:	INFINITE BUS
UTILITY TRANSFORMER SIZE:	75 KVA
UTILITY TRANSFORMER IMPEDENCE:	1.50 %
SERVICE LATERAL # PARALLEL RUNS:	1 EA.
SERVICE LATERAL SIZE:	#500 KCMIL
SERVICE LATERAL LENGTH:	45 FEET
SERVICE LATERAL CONDUIT TYPE:	METALLIC
TOTAL MOTOR CONTRIBUTIONS:	10 AMPS

NOTE: VERIFY THE ABOVE TRANSFORMER RATINGS AND SERVICE
LATERAL SIZE/TYPE WITH LOCAL UTILITY PRIOR TO ORDERING EQUIPMENT.
ADJUST EQUIPMENT SHORT CIRCUIT RATINGS ACCORDINGLY BASED ON ACTUAL
EQUIPMENT INSTALLED BY UTILITY. INSTALL LABEL ON SERVICE EQUIPMENT
INDICATING DATE AND FINAL CALCULATION RESULTS PER NEC 110.24.



City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

[illegible]

PANEL 'ER'													
MFR/MODEL: SQUARE 'D' TYPE NQ				VOLTS: 120/240V,1PH,3W				ENCLOSURE: NEMA 1				100 A	
TYPE: PANELBOARD				VOLT-AMPS				MTG: SURFACE					
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A	B	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
	1	1	20	RESERVED RESTROOM LOAD					RESERVED RESTROOM LOAD	20	1	2	
	3	1	20	RESERVED RESTROOM LOAD					RESERVED RESTROOM LOAD	20	1	4	
	5	1	20	RESERVED RESTROOM LOAD					RESERVED RESTROOM LOAD	20	1	6	
	7	1	20	RESERVED RESTROOM LOAD					RESERVED RESTROOM LOAD	20	1	8	
	9	1	20	RESERVED RESTROOM LOAD					RESERVED RESTROOM LOAD	20	1	10	
	11	1	20	RESERVED RESTROOM LOAD					RESERVED RESTROOM LOAD	20	1	12	
	13	1	20	RESERVED RESTROOM LOAD					RESERVED RESTROOM LOAD	20	1	14	
	15	1	20	RESERVED RESTROOM LOAD					SPARE	20	1	16	
	17	1	20	SPARE					SPARE	20	1	18	
	19	1	20	SPARE					SPARE	20	1	20	
	21	1	20	SPARE					SPACE	-	1	22	
	23	1	-	SPACE					SPACE	-	1	24	
	25	1	-	SPACE					SPACE	-	1	26	
	27	1	-	SPACE					SPACE	-	1	28	
	29	1	-	SPACE					SPACE	-	1	30	
	31	1	-	SPACE					SPACE	-	1	32	
	33	1	-	SPACE					SPACE	-	1	34	
	35	1	-	SPACE					SPACE	-	1	36	
	37	1	-	SPACE					SPACE	-	1	38	
	39	1	-	SPACE					SPACE	-	1	40	
	41	1	-	SPACE					SPACE	-	1	42	
TOTAL V-A						0	0	0 VA					
TOTAL AMPS						0	0	0 A					
A.I.C. RATING: 10,000													
CONNECTED LOAD IN KVA (THIS PANEL):				LTG	RECP	MOTR	LG.MT	MISC	SPEC	TOTAL	AMPS		
CONNECTED LOAD IN KVA (BRANCH PANELS):				0.00	0.00	0.00	0.00	0.00	0.00	0.0 KVA	0 A		
TOTAL CONNECTED LOAD IN KVA:				0.00	0.00	0.00	0.00	0.00	0.00	0.0 KVA	0 A		
DEMAND LOAD IN KVA:				0.00	0.00	0.00	0.00	0.00	0.00	0.0 KVA	0 A		
PANEL NOTES:									PANEL OPTIONS: MAIN LUGS ONLY				

SHORT CIRCUIT CALCULATION SUMMARY EAST RESTROOM

FAULT ANALYSIS WAS PERFORMED USING POINT-TO-POINT METHOD.
THE FOLLOWING ARE THE UTILITY CONTRIBUTION AND EQUIPMENT ASSUMPTIONS:

AVAILABLE FAULT CURRENT AT UTILITY XFMR:	INFINITE BUS
UTILITY TRANSFORMER SIZE:	2.50 KVA
UTILITY TRANSFORMER IMPEDENCE:	1.75 %
SERVICE LATERAL # PARALLEL RUNS:	1 EA.
SERVICE LATERAL SIZE:	#3/0 KCMIL
SERVICE LATERAL LENGTH:	25 FEET
SERVICE LATERAL CONDUIT TYPE:	METALLIC
TOTAL MOTOR CONTRIBUTIONS:	0 AMPS

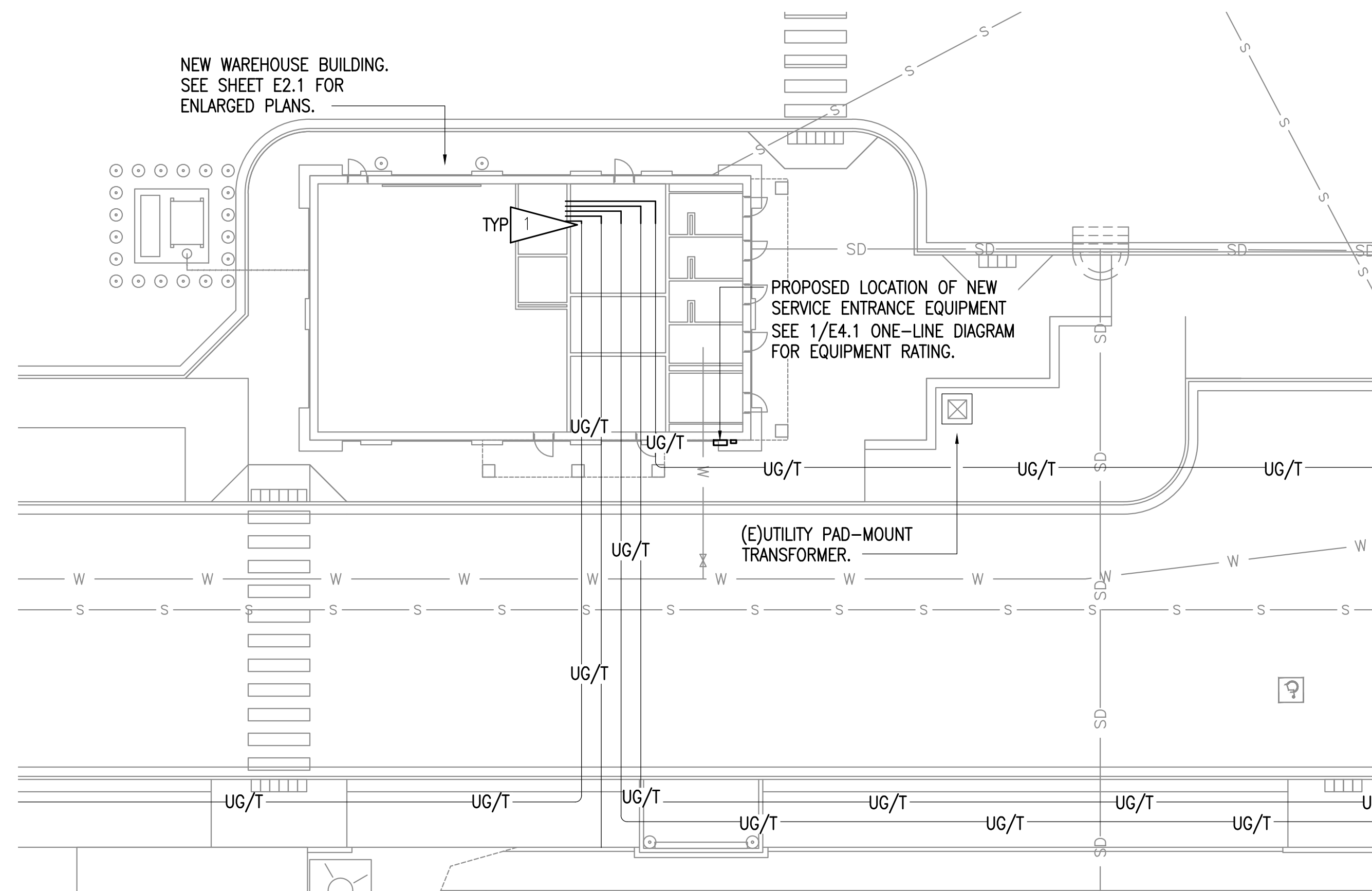
AVAILABLE FAULT CURRENT AT MDP: 6241 A RMS (SYM)

NOTE: VERIFY THE ABOVE TRANSFORMER RATINGS AND SERVICE LATERAL SIZE/TYPE WITH LOCAL UTILITY PRIOR TO ORDERING EQUIPMENT. ADJUST EQUIPMENT SHORT CIRCUIT RATINGS ACCORDINGLY BASED ON ACTUAL EQUIPMENT INSTALLED BY UTILITY. INSTALL LABEL ON SERVICE EQUIPMENT INDICATING DATE AND FINAL CALCULATION RESULTS PER NEC 110.24.

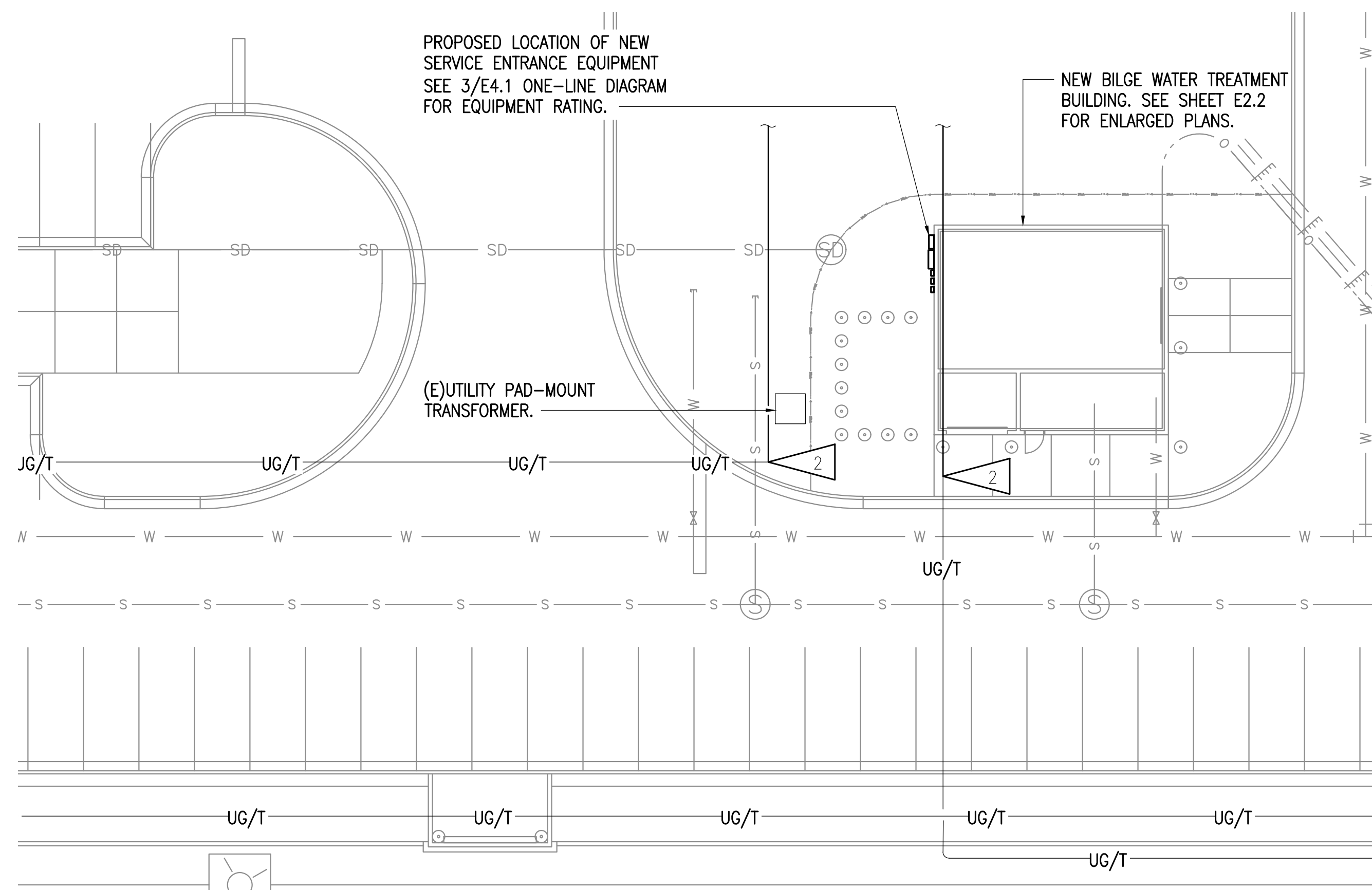


City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

[illegible]



1 WAREHOUSE BUILDING ELECTRICAL SITE PLAN
1/16" = 1'-0"



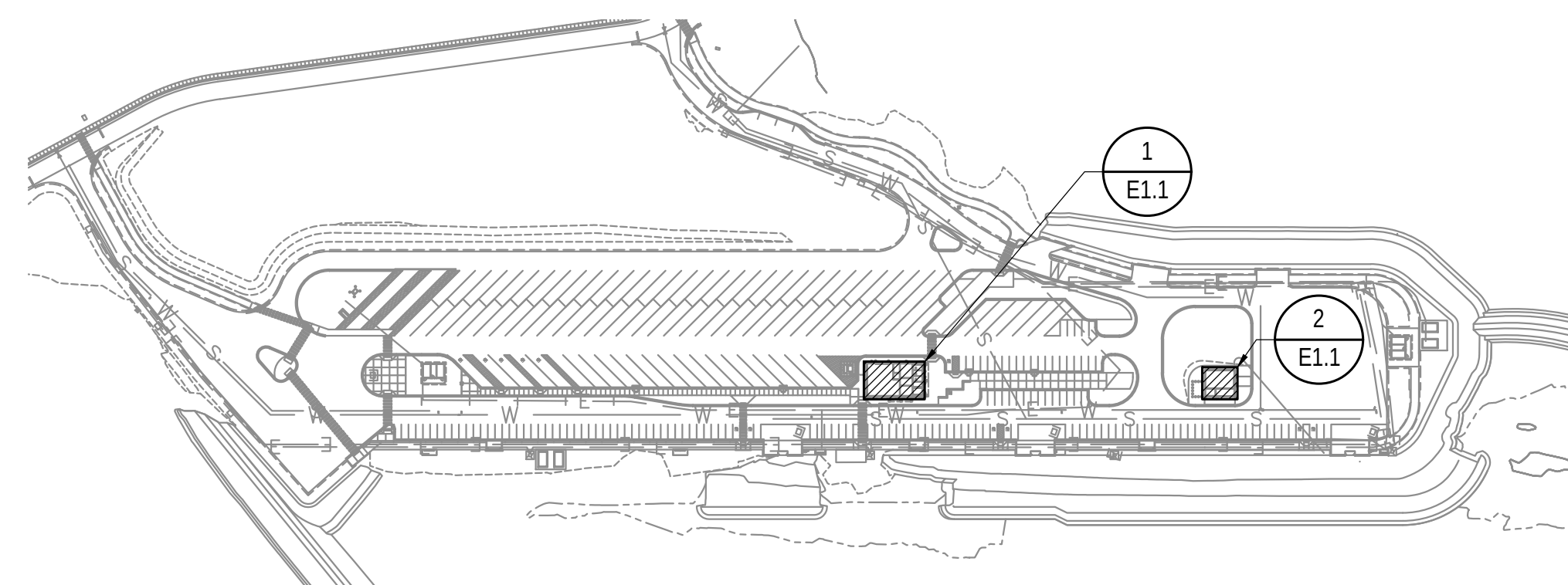
2 BILGE WATER TREATMENT ELECTRICAL SITE PLAN
1/16" = 1'-0"

GENERAL NOTES:

1. REFERENCE TRENCHING DETAILS ON SHEET E3.1

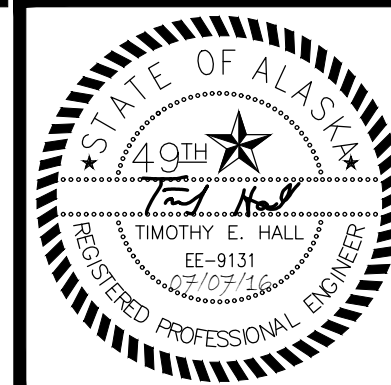
SHEET NOTES:

1. (6) 2" C INSTALLED AND STUBBED ABOVE GRADE DURING PHASE 1 WORK. CONTRACTOR TO EXTEND EXISTING CONDUIT TO TELECOMMUNICATION TERMINATION BACKBOARD LOCATED IN NEW WAREHOUSE BUILDING. SEE 3/E2.1 FOR LOCATION.
2. EXTEND EXISTING COMMUNICATION CONDUIT TO FUTURE TANK FARM LOCATION. COORDINATE WITH CIVIL FOR LOCATION OF TANK FARM.



KEY PLAN

NO SCALE

[illegible]

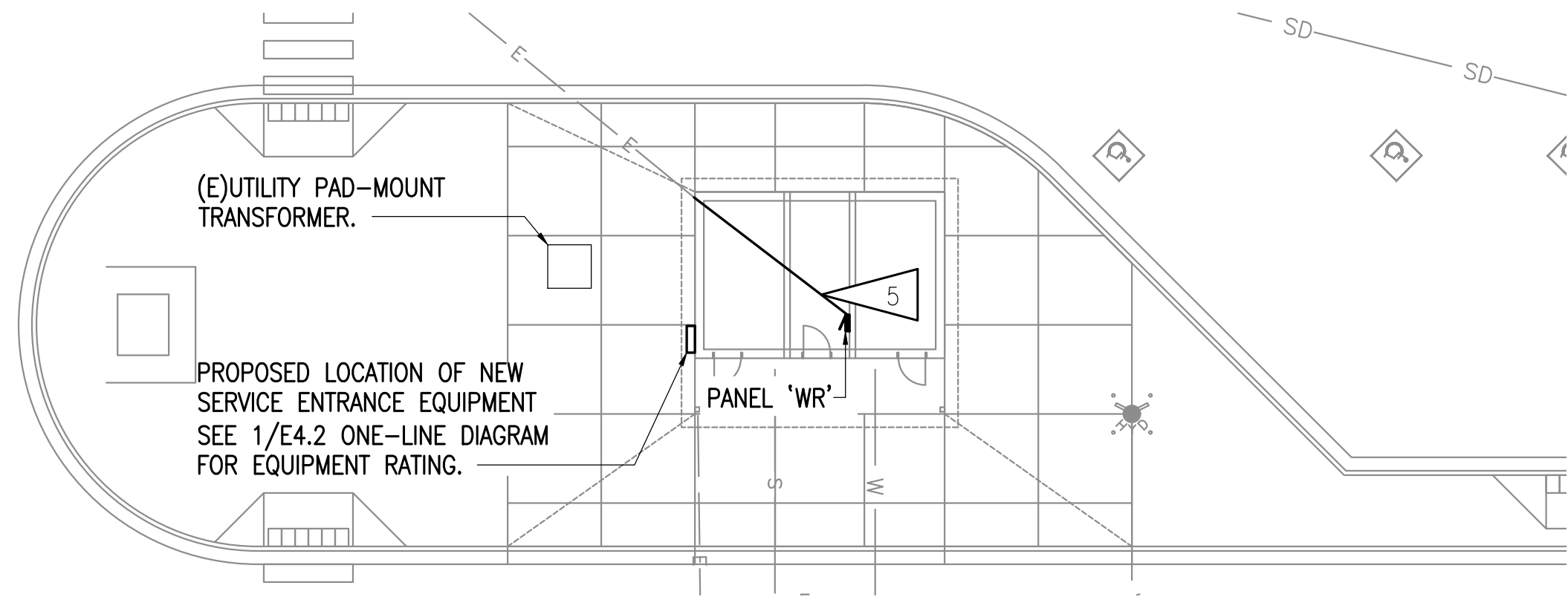
Drawn By: PCC	Checked By: TEH, DB
Date: JULY 08, 2016	
Phase: BID DOCUMENTS	
Project No: L2233.2	
SHEET TITLE: FACILITIES ELECTRICAL SITE PLAN	

SHEET NO:
91 OF 100

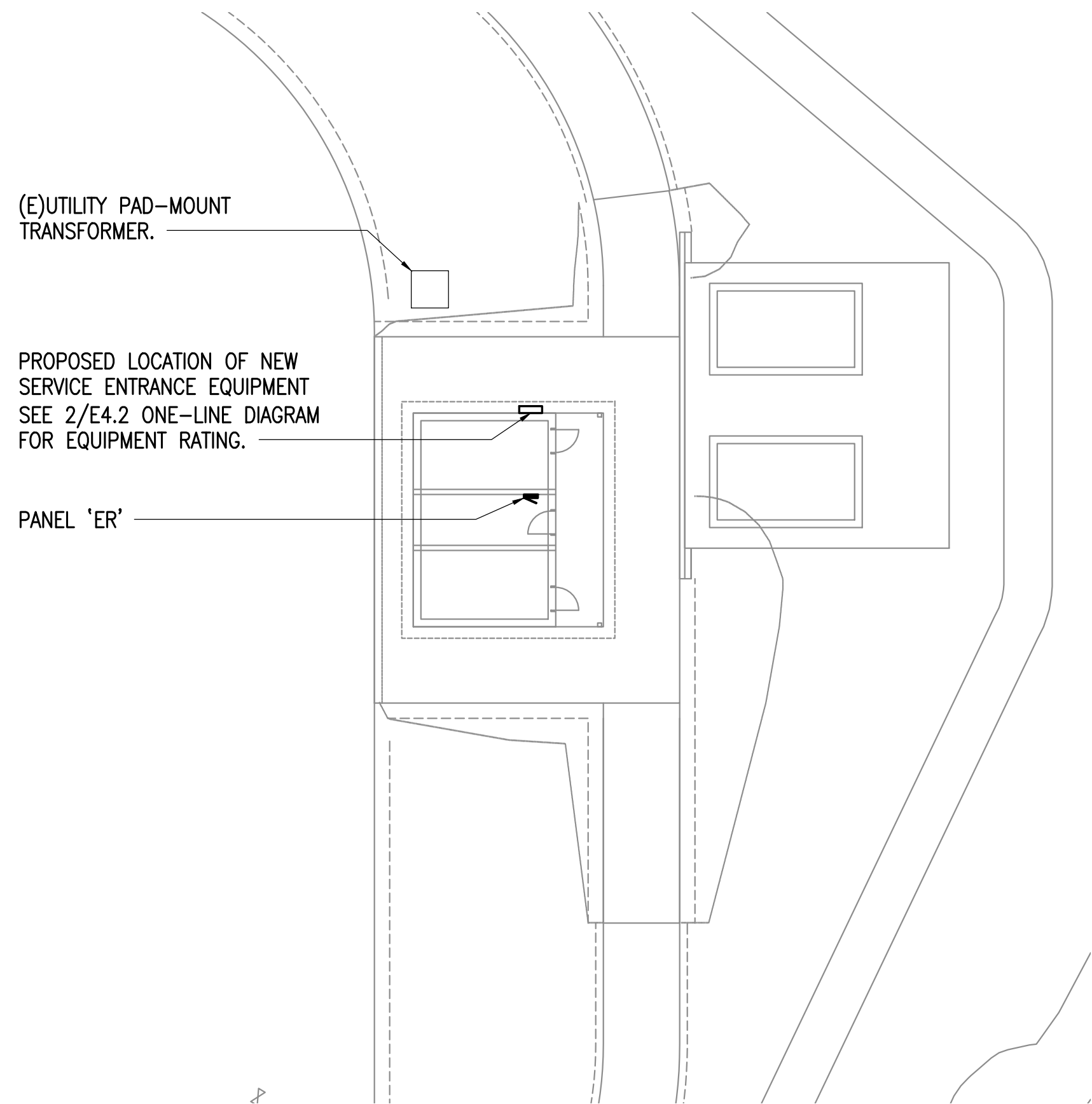
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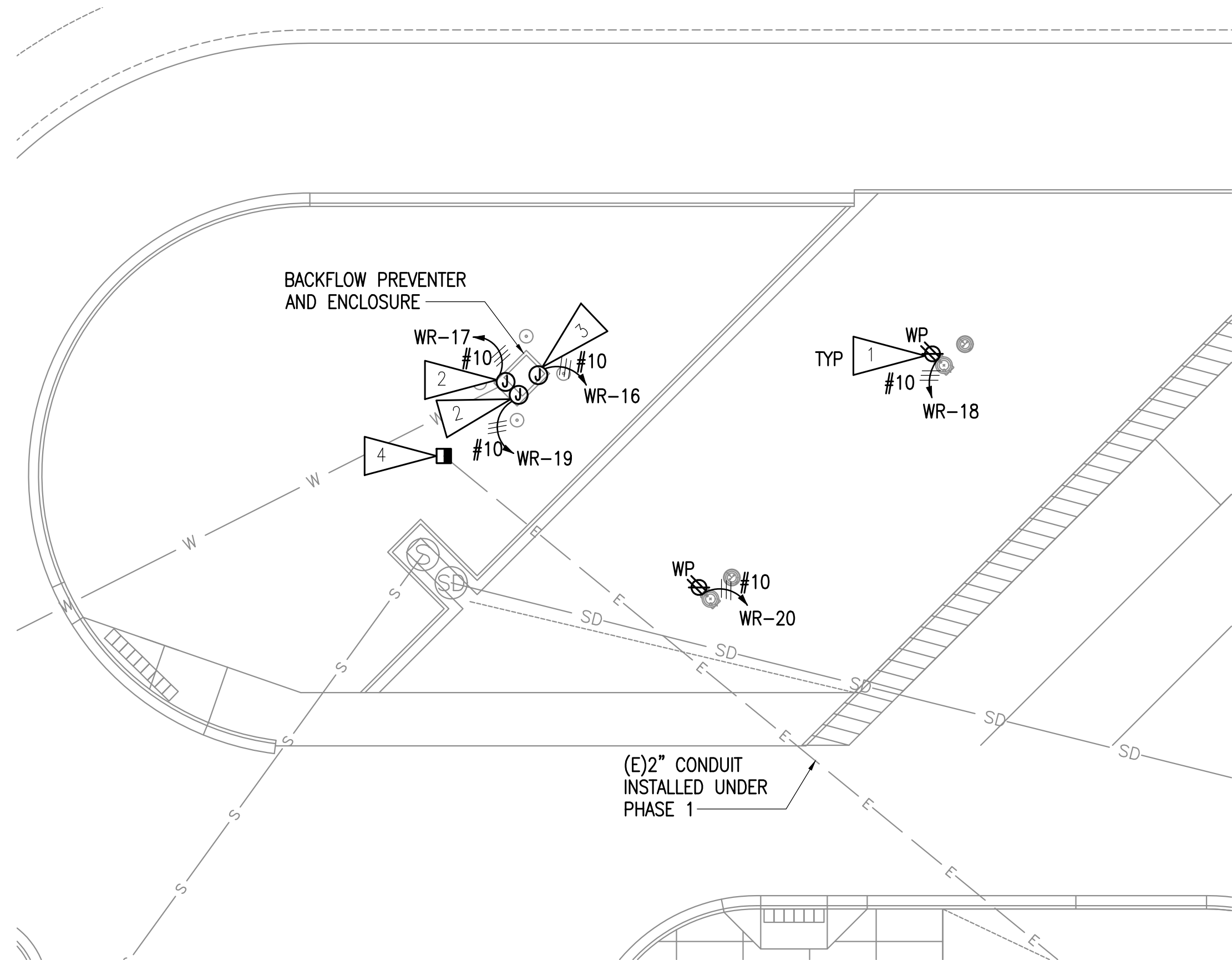
Plotted 7/7/2016 9:51 AM by Frank Silberer



1 WEST RESTROOM ELECTRICAL SITE PLAN
1/16" = 1'-0"



2 EAST RESTROOM ELECTRICAL SITE PLAN
1/16" = 1'-0"



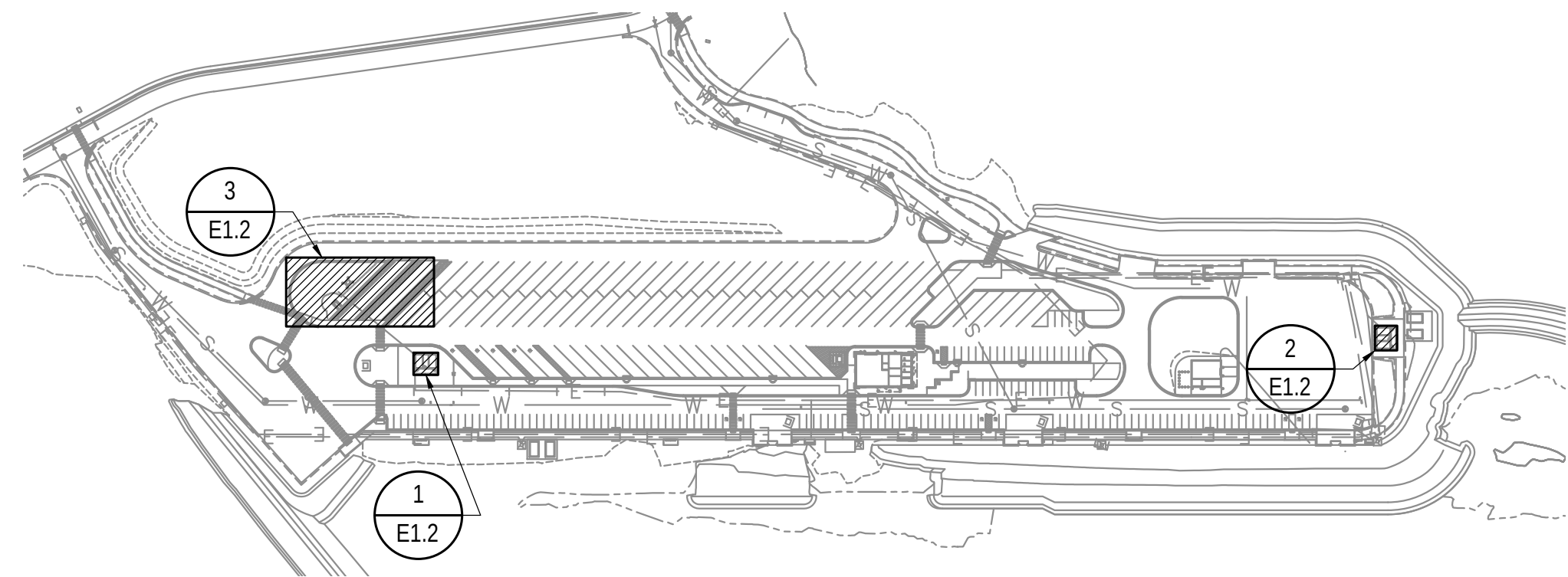
3 WASH DOWN ELECTRICAL SITE PLAN
1/16" = 1'-0"

GENERAL NOTES:

- A. RESTROOMS ARE DESIGN/BUILD. REFER TO SPECIFICATIONS FOR ELECTRICAL REQUIREMENTS.

SHEET NOTES:

1. RECEPTACLE IN ELECTRICAL SERVICE PIT. SEE CIVIL FOR DETAILS.
2. JUNCTION BOX FOR CONNECTION OF ELECTRIC HEATER IN ENCLOSURE. COORDINATE WITH CIVIL FOR EXACT CONNECTION REQUIREMENTS AND LOCATION PRIOR TO ROUGH IN.
3. JUNCTION BOX FOR CONNECTION OF WATER LINE HEAT TRACE. COORDINATE WITH CIVIL FOR EXACT CONNECTION REQUIREMENTS AND LOCATION PRIOR TO ROUGH IN.
4. PROVIDE TYPE 2 IN GRADE JUNCTION BOX AND TERMINATE CONDUIT INSTALLED UNDER PHASE 1. EXTEND NEW WASH DOWN EQUIPMENT TO PANEL 'WR' VIA EXISTING UNDER GROUND CONDUIT.
5. EXTEND UNDERGROUND CONDUIT FOR WASH DOWN POWER TO PANEL 'WR'



KEY PLAN
NO SCALE



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RSA Engineering, Inc.
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Corporate No. AEC0042

City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

CITY OF VALDEZ, ALASKA
GATEWAY TO THE INTERIOR

No.	Description	Date

Drawn By: PCC
Checked By: TEH, DB

Date: JULY 08, 2016

Project: BID DOCUMENTS

Project No: L2233.2

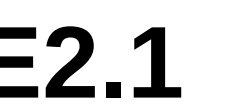
SHEET TITLE: RESTROOMS AND WASH DOWN ELECTRICAL SITE PLAN

SHEET NO: 92 OF 100

E1.2

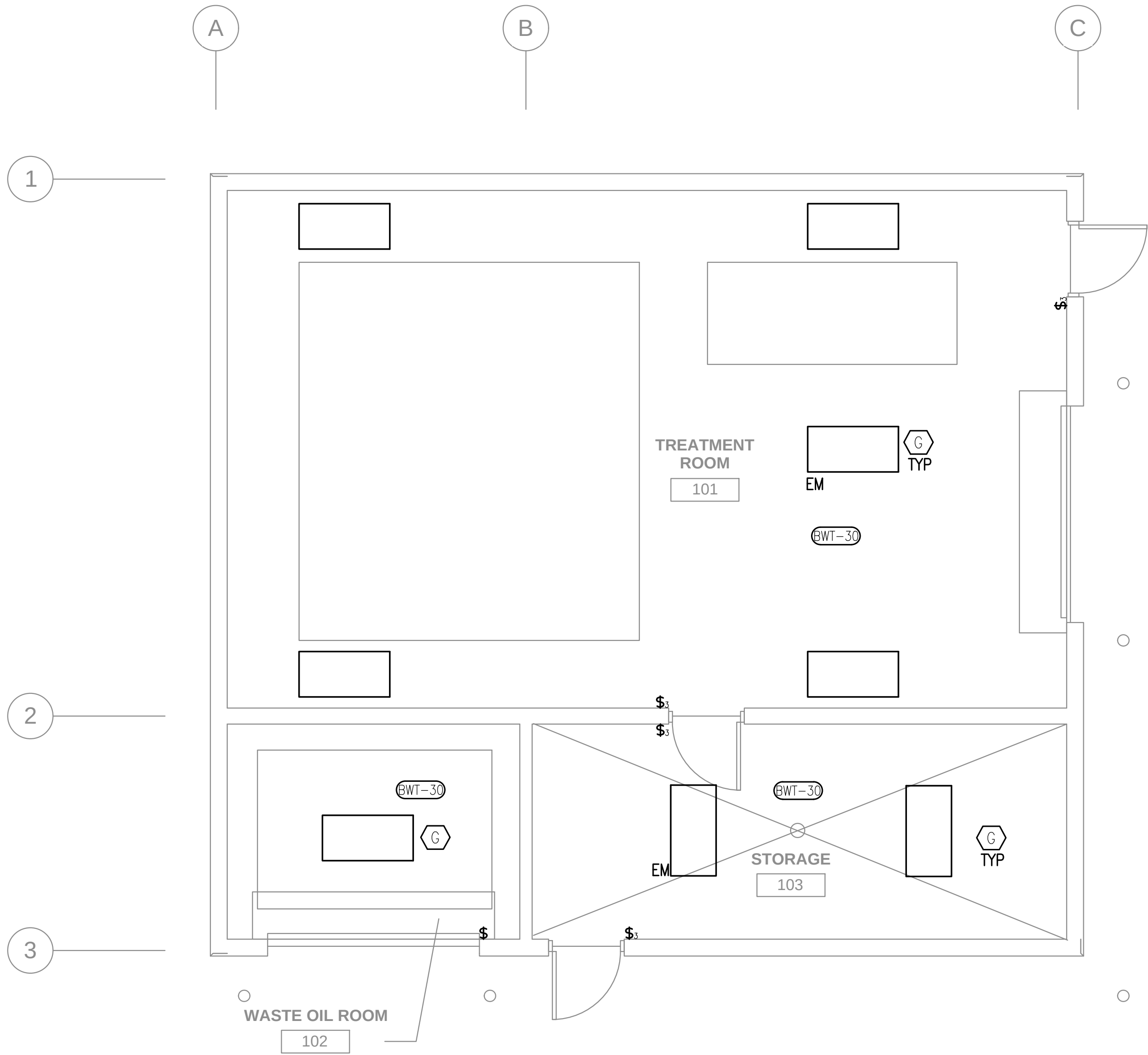


60. NORTH ORIENTED PHOTOCELL MOUNTED IN A NEMA 4 ENCLOSURE 6A, 120V SPST INTERMATIC #EK4736S OR APPROVED EQUAL. SEE 1/E3.3 FOR WIRING DIAGRAM.
11. LIGHTING INVERTER FOR SINGLE RESTROOM EMERGENCY FIXTURE.
12. LIGHTING INVERTER FOR EXTERIOR EMERGENCY FIXTURES. SEE 1/E3.3 FOR DETAIL.
13. PROVIDE #2 AWG BARE CU CONDUCTOR FOR BONDING OF TANKS. CONNECT TO BUILDING GROUNDING SYSTEM. SEE 2/E4.1
14. DT-1 HAS 3 POINTS OF CONNECTION. COORDINATE WITH MANUFACTURER FOR CONNECTION REQUIREMENTS.
15. HEAVY DUTY, WATERTIGHT/OILTIGHT MAINTAINED CONTACT PUSHBUTTON CONTROL STATION WITH NEMA1 ENCLOSURE, ONE NORMALLY OPEN CONTACT BLOCK, AND 2-1/8" RED MUSHROOM BUTTON WITH WHITE ENGRAVED LETTERS: 'EMERGENCY STOP'. SQUARE 'D' SERIES 9001 OR EQUAL. LOCATE NEAR ENTRANCE TO BOILER ROOM. PROVIDE CONNECTION TO BOILER PER MANUFACTURER'S INSTRUCTIONS, COORDINATE WITH MECHANICAL.
16. SEE 2/E3.2 FOR DOOR ACCESS CONTROL DETAIL.

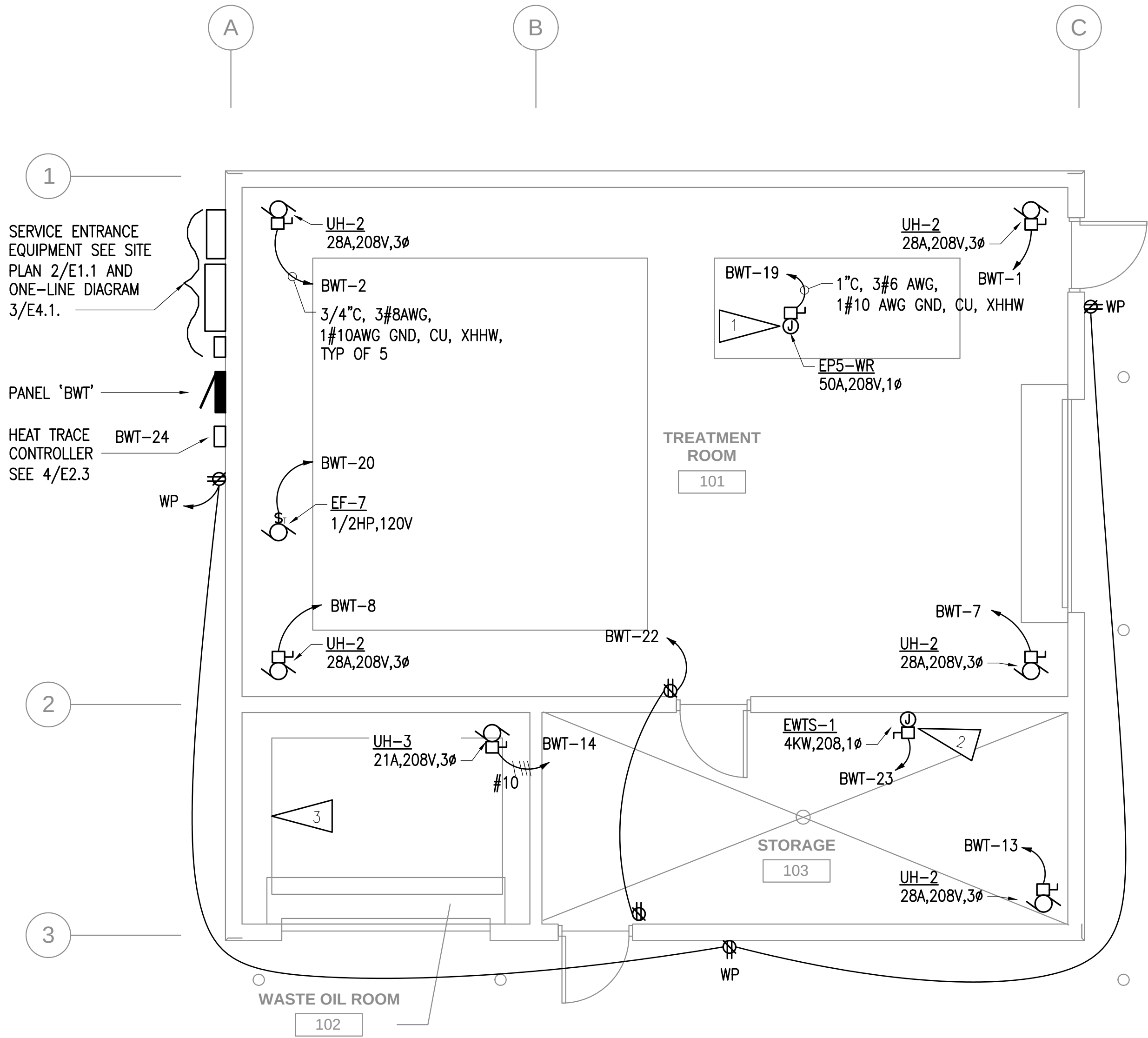


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Plotted 7/7/2016 9:51 AM by Frank Silberer



1 BILGE WATER TREATMENT - LIGHTING PLAN
1/4" = 1'-0"



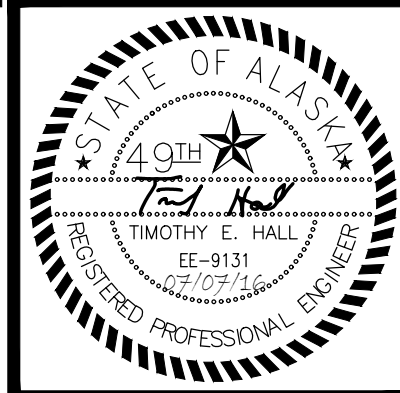
2 BILGE WATER TREATMENT - POWER PLAN
1/4" = 1'-0"

GENERAL NOTES:

- BILGE WATER TREATMENT BUILDING IS A CLASSIFICATION 1, DIVISION 1, GROUP D FACILITY. ALL EQUIPMENT INSIDE SHALL BE LISTED FOR USE IN THESE CONDITIONS. ALL ELECTRICAL INSTALLATIONS IN THE BUILDING SHALL MEET NEC ARTICLES 500 AND 501 REQUIREMENTS.
- ALL INTERIOR ELECTRICAL EQUIPMENT AND CONDUITS SHALL BE SURFACE MOUNTED TO CMU WALLS.

SHEET NOTES:

- COORDINATE WITH OILTRAP MANUFACTURE FOR EXACT LOCATION AND CONNECTION TYPE PRIOR TO ROUGH-IN.
- JUNCTION BOX AND DISCONNECT PROVIDED BY OILTRAP, INSTALLED BY ELECTRICAL.
- PROVIDE #2 AWG BARE CU CONDUCTOR FOR BONDING OF WASTE OIL TANK. CONNECT TO BUILDING GROUNDING SYSTEM. SEE 4/E4.1



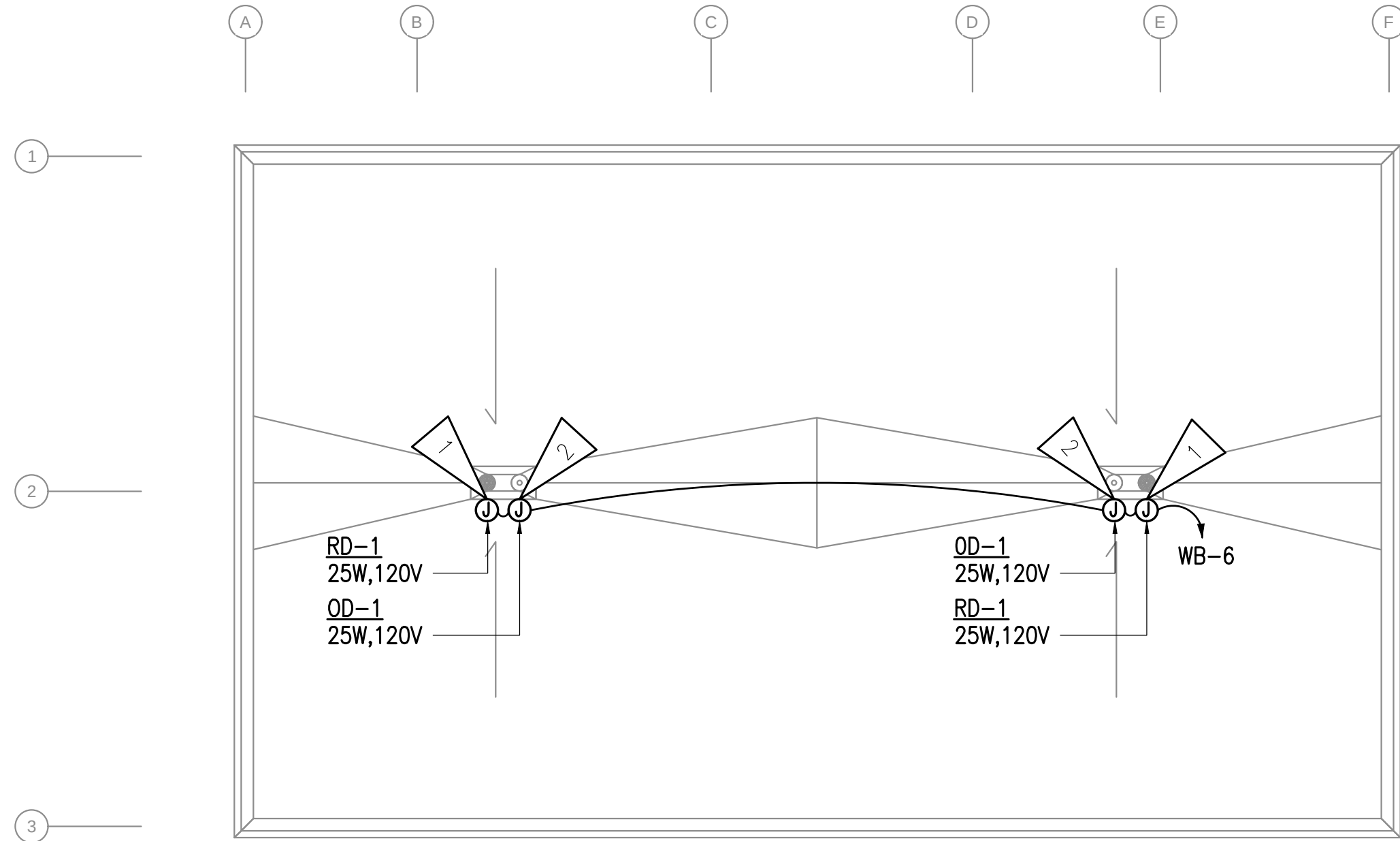
R&M CONSULTANTS, INC.
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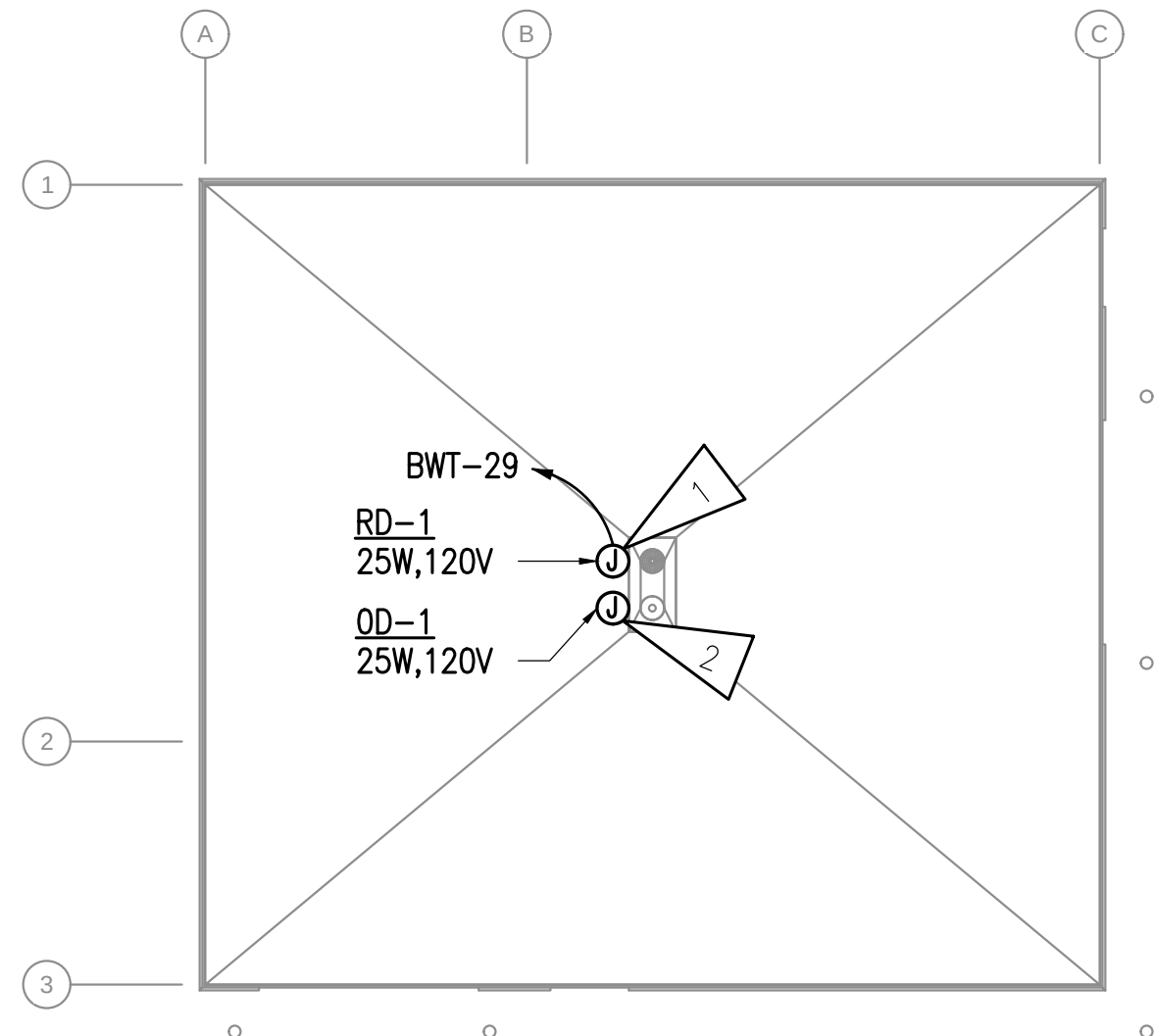
City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

No.	Description	Date

Drawn By FWS,PCC	Checked By TEH, DB
Date JULY 08, 2016	
Phase BID DOCUMENTS	
Project No. L2233.2	
SHEET TITLE BILGE WATER TREATMENT ELECTRICAL PLANS	



1 WAREHOUSE BUILDING - ROOF PLAN
1/8" = 1'-0"



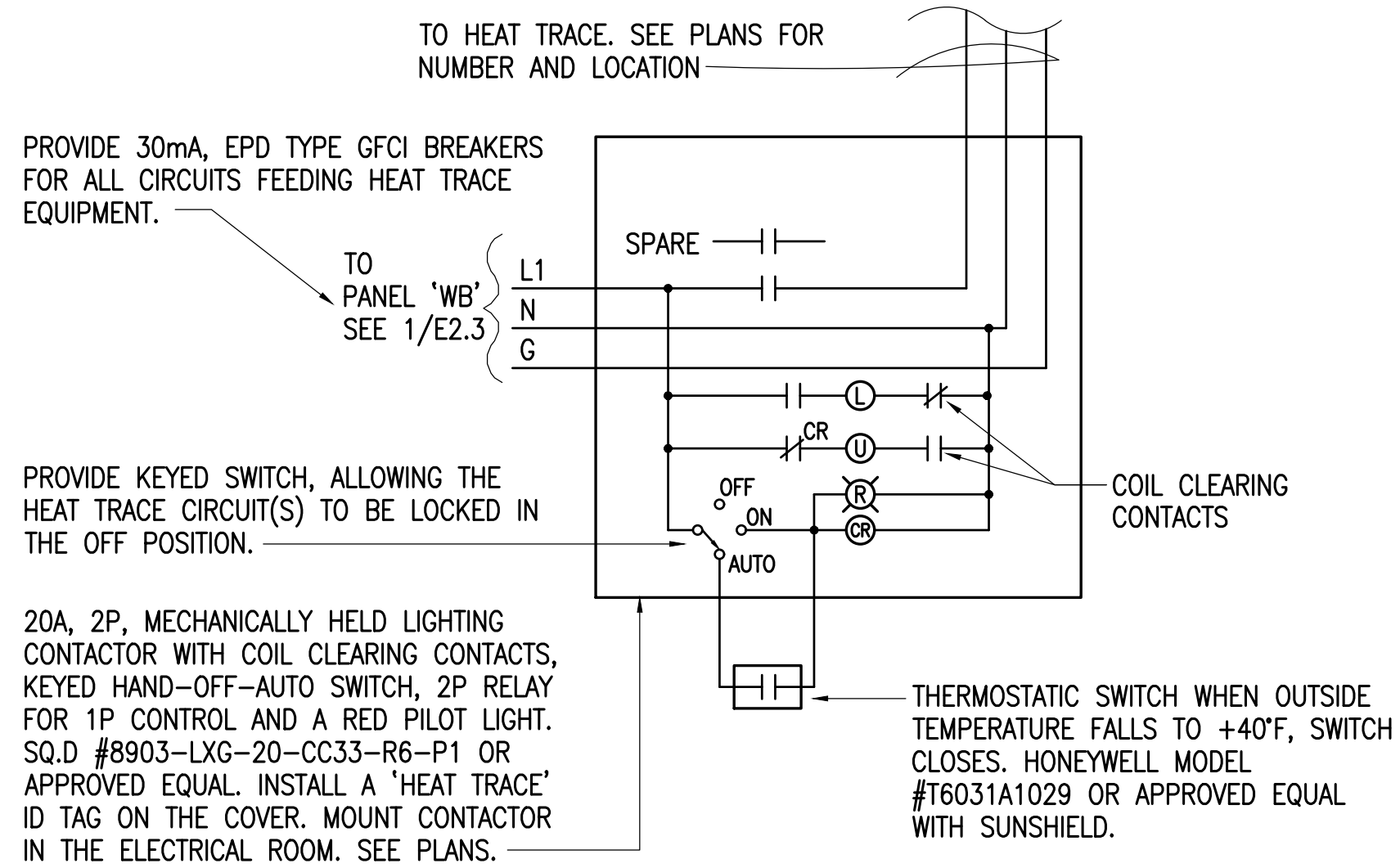
2 BILDGE WATER TREATMENT - ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES:

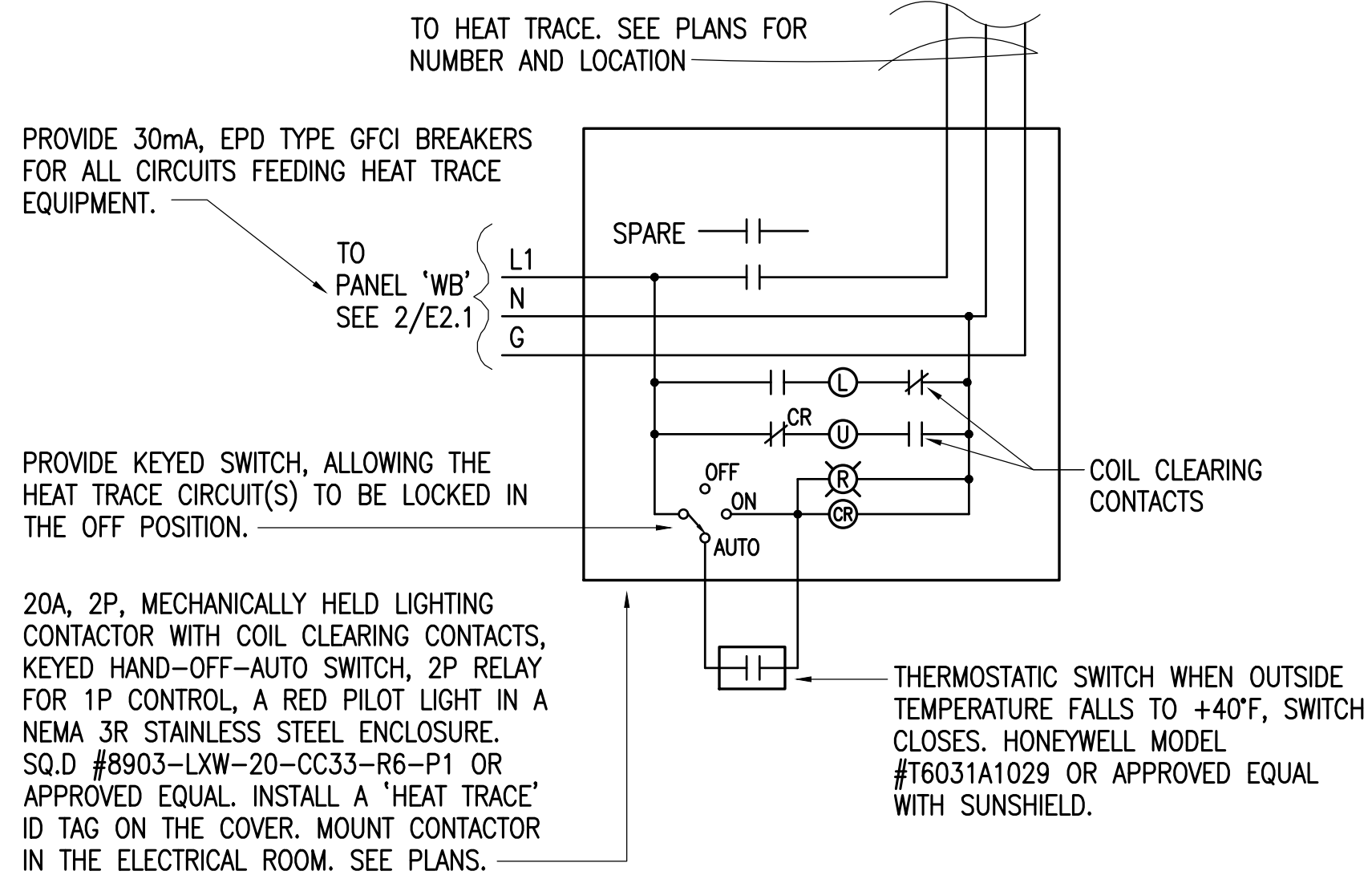
- BILGE WATER TREATMENT BUILDING IS A CLASSIFICATION 1, DIVISION 1, GROUP D FACILITY. ALL EQUIPMENT INSIDE SHALL BE LISTED FOR USE IN THESE CONDITIONS. ALL ELECTRICAL INSTALLATIONS IN THE BUILDING SHALL MEET NEC ARTICLES 500 AND 501 REQUIREMENTS.

GENERAL NOTES:

- SEE MECHANICAL SHEET 5/M6.2 FOR HEAT TRACE DETAIL.
- SEE MECHANICAL SHEET 4/M6.2 FOR HEAT TRACE DETAIL.



3 HEAT TRACE CONTROL DIAGRAM - WAREHOUSE BUILDING
1/8" = 1'-0"



4 HEAT TRACE CONTROL DIAGRAM - BILGE WATER TREATMENT
1/8" = 1'-0"



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City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

No.	Description	Date

Drawn By FWS,PCC	Checked By TEH, DB
Date JULY 08, 2016	
Project BID DOCUMENTS	
Project No. L2233.2	
SHEET TITLE WAREHOUSE AND BILGE WATER TREATMENT ELECTRICAL ROOF PLANS	

SHEET NO:
95 OF 100

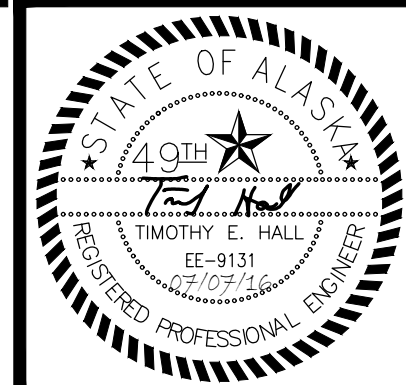
E2.3

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Drawn By: PCC	Checked By: TEH, DB
Date: JULY 08, 2016	
Phase: BID DOCUMENTS	
Project No: L2233.2	
SHEET TITLE: ELECTRICAL DETAILS	

SHEET NO:
96 OF 100

E3.1

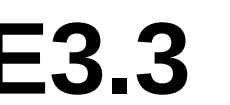


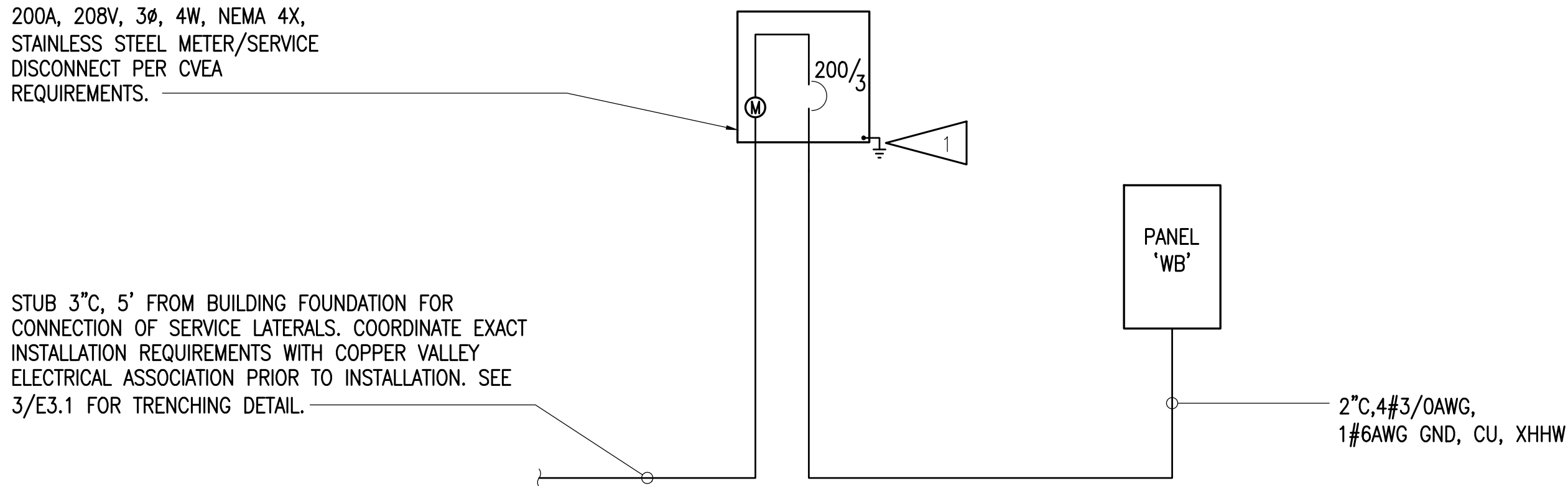
R&W CONSULTANTS, INC.
9101 Vanguard Drive
Anchorage, Alaska 99507
Inconclusive: 907.552.1707
Fax: 907.552.3483

RISA Engineering, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
670 West Firwood Lane, Suite 201 • Anchorage, AK 99503 • (907) 276-0521
Corporate No. AEC0542

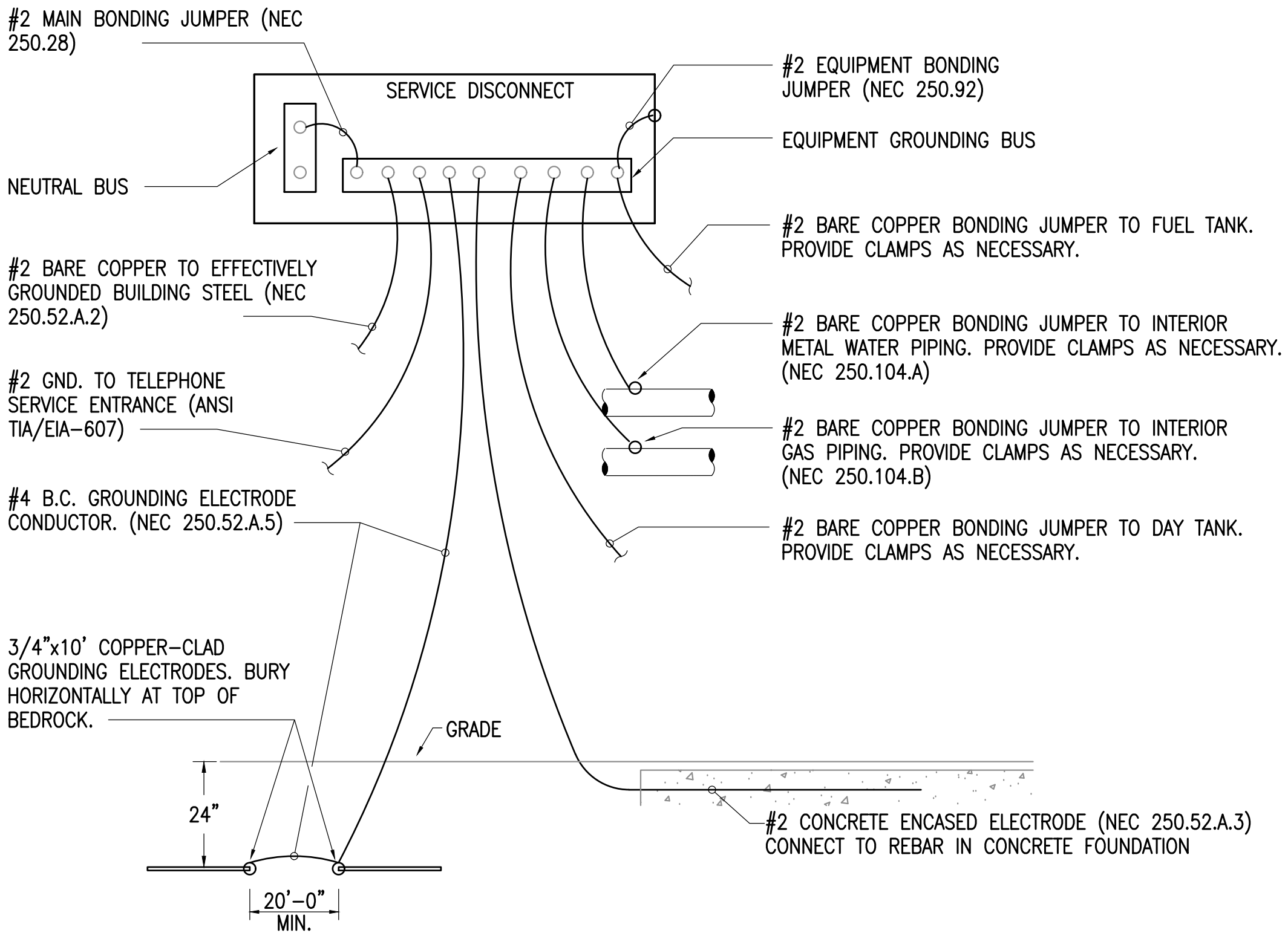








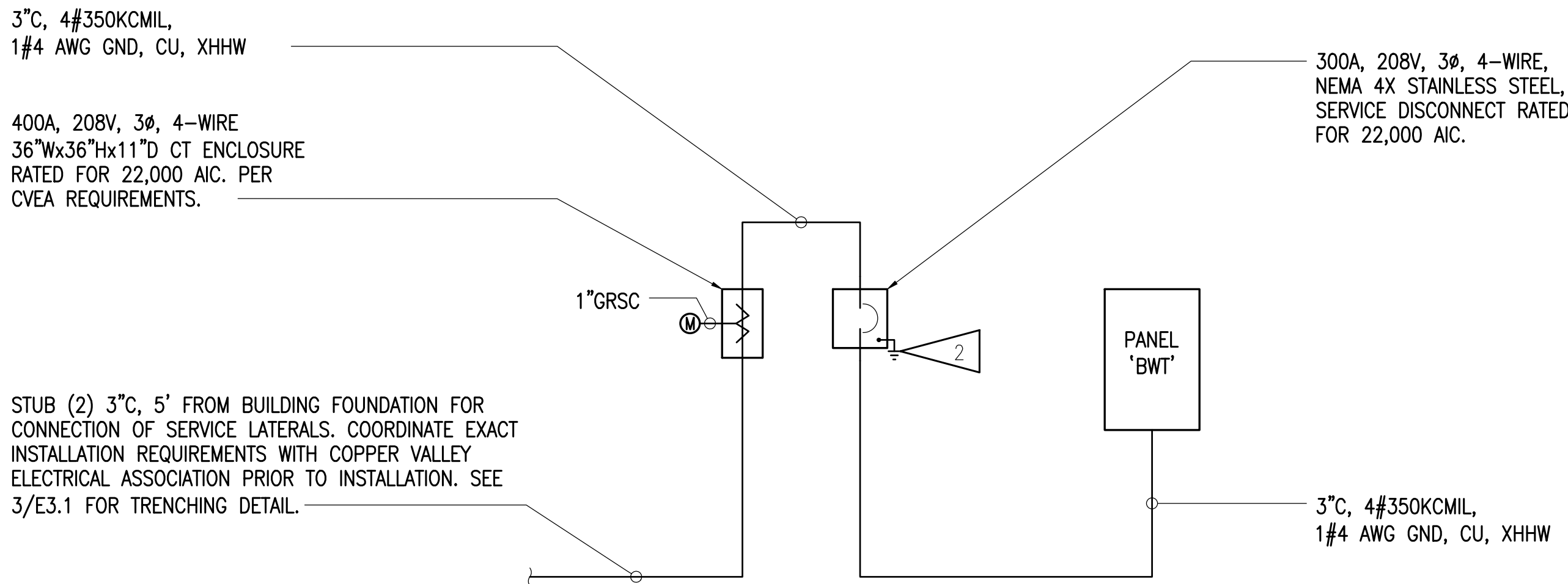
1 ONE-LINE DIAGRAM - WAREHOUSE BUILDING
NO SCALE



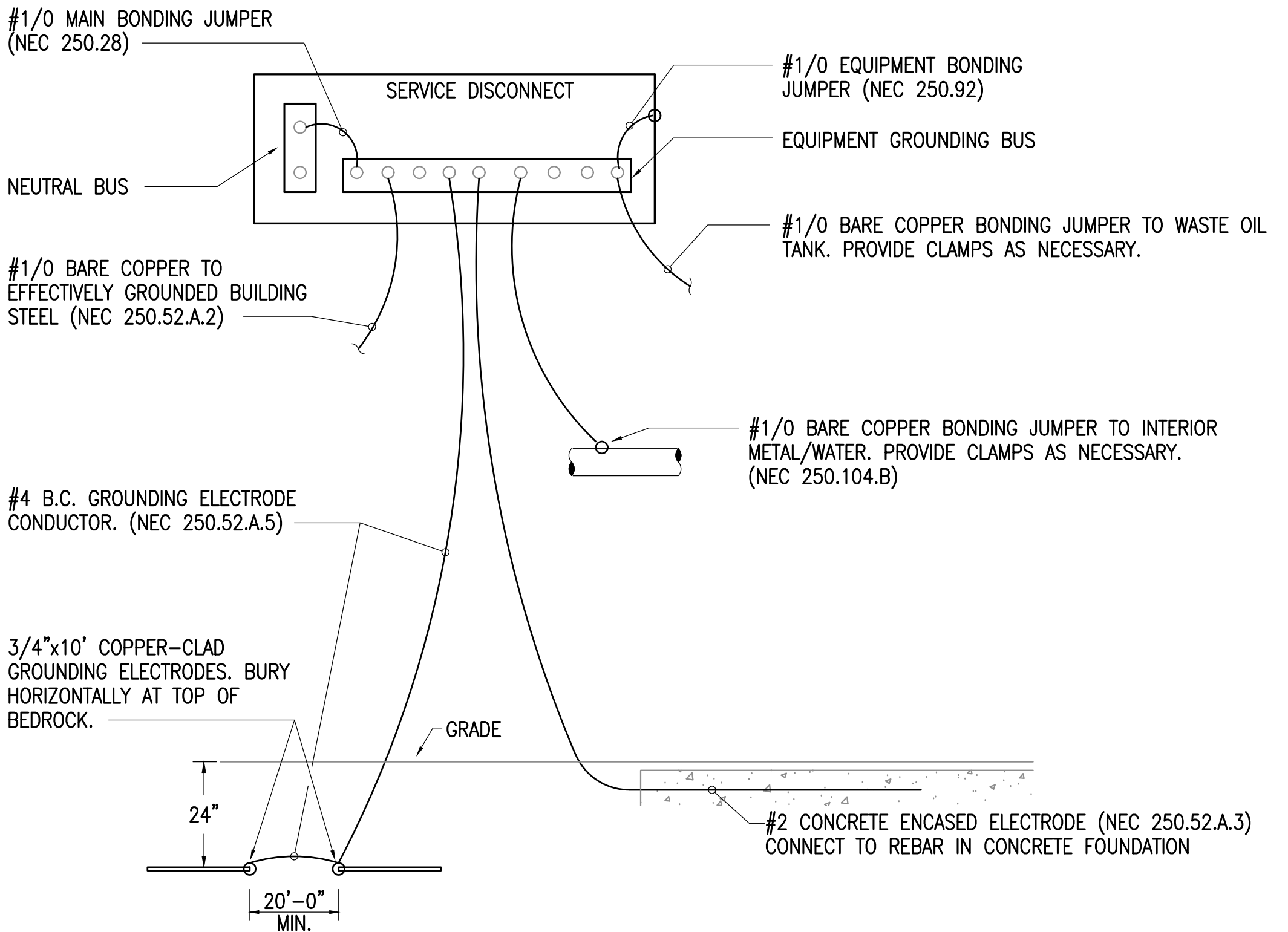
2 GROUNDING DETAIL - WAREHOUSE BUILDING
NO SCALE

SHEET NOTES:

- SEE 2/E4.1 FOR GROUNDING DETAIL.
- SEE 4/E4.1 FOR GROUNDING DERAIL.



3 ONE-LINE DIAGRAM - BILGE WATER TREATMENT
NO SCALE



4 GROUNDING DETAIL - BILGE WATER TREATMENT
NO SCALE



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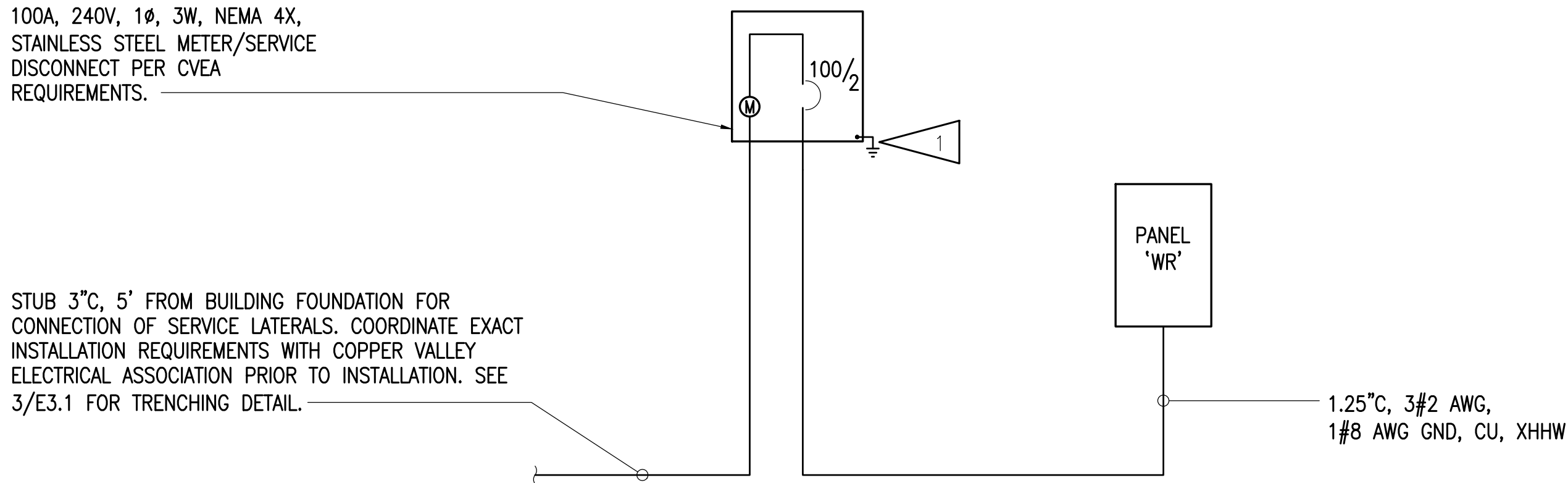
City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

No.	Description	Date

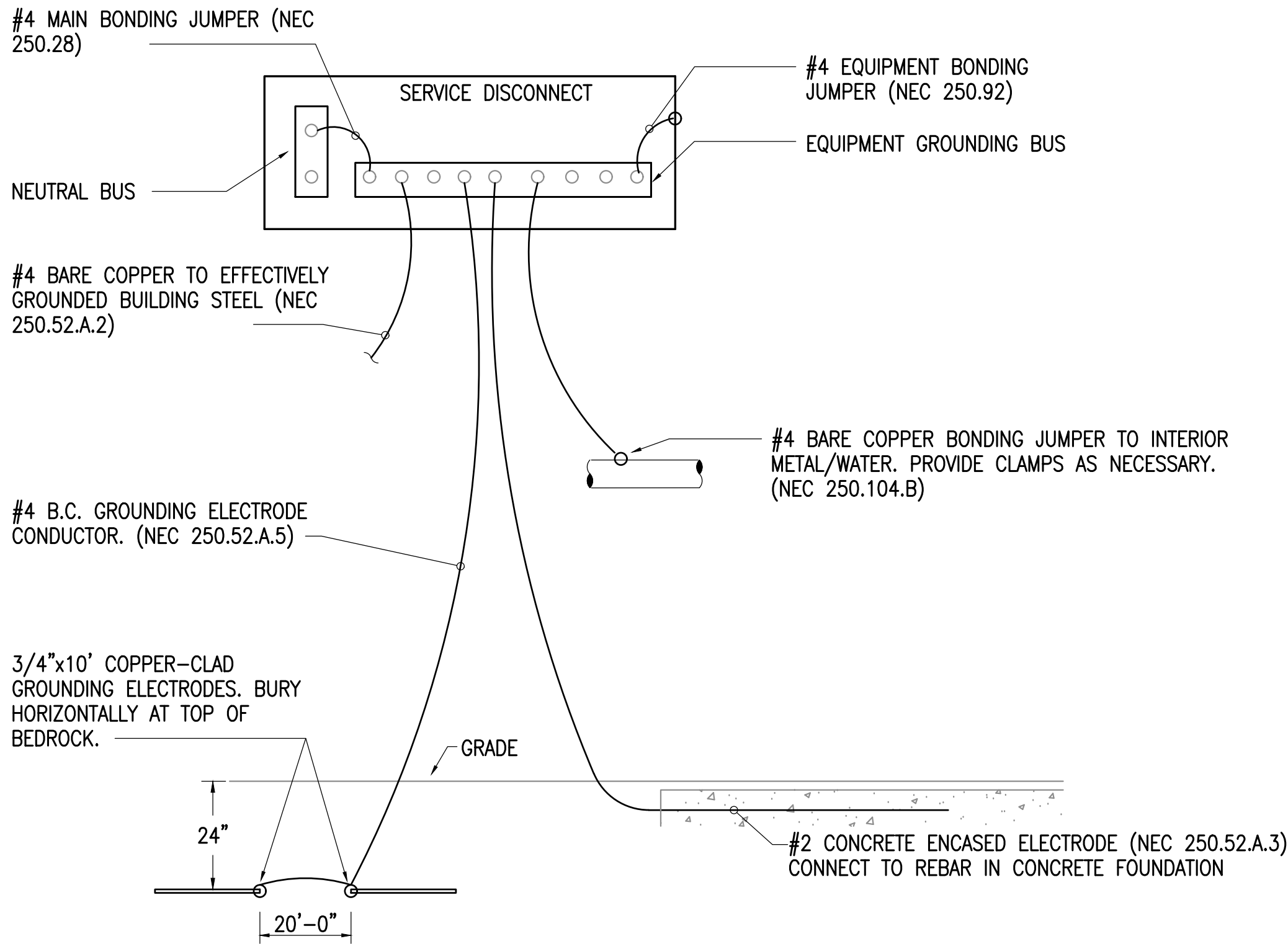
Drawn By: PCC
Date: JULY 08, 2016
Checked By: TEH, DB
Project: BID DOCUMENTS
Project No: L2233.2
SHEET TITLE: FACILITIES ONE-LINE DIAGRAM AND GROUNDING DETAIL

SHEET NO:
99 OF 100

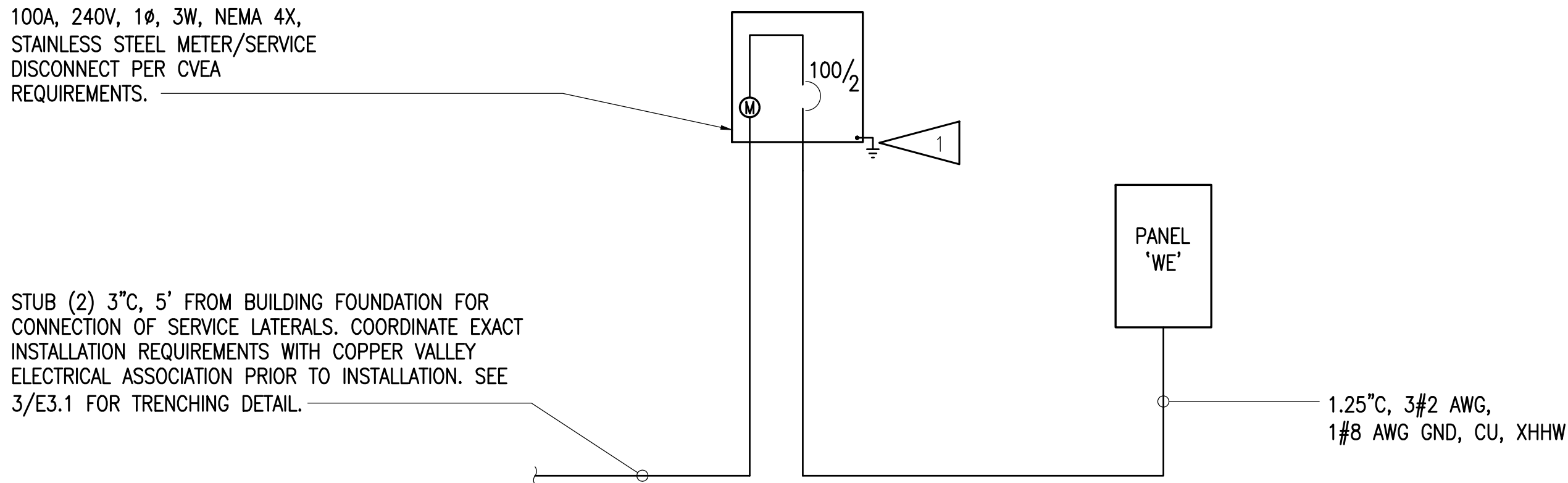
E4.1



1 ONE-LINE DIAGRAM - WEST RESTROOM
NO SCALE



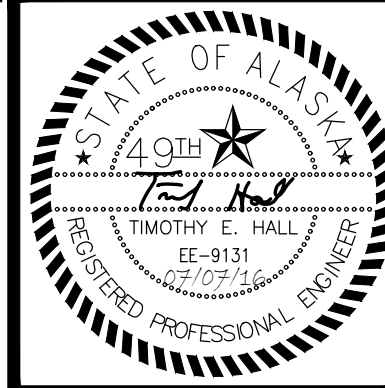
2 GROUNDING DETAIL - RESTROOMS
NO SCALE



3 ONE-LINE DIAGRAM - EAST RESTROOM
NO SCALE

SHEET NOTES:

1. SEE 2/E4.2 FOR GROUNDING DETAIL.



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City of Valdez
HARBOR DEVELOPMENT
UPLAND FACILITIES

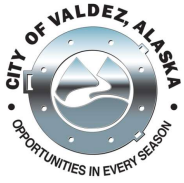
CITY OF VALDEZ, ALASKA
GATEWAY TO THE INTERIOR

No.	Description	Date

Drawn By: PCC	Checked By: TEH, DB
Date: JULY 08, 2016	
Phase: BID DOCUMENTS	
Project No: L2233.2	
SHEET TITLE: RESTROOM ONE-LINE DIAGRAM AND GROUNDING DETAIL	

SHEET NO:
100 OF 100

E4.2



Legislation Text

File #: 16-0092, **Version:** 1

ITEM TITLE:

Valdez New Boat Harbor Construction Progress Reports

SUBMITTED BY: Jenessa Ables, Port Operations Manager

FISCAL NOTES:

Expenditure Required: N/A

Unencumbered Balance: N/A

Funding Source: N/A

RECOMMENDATION:

N/A

SUMMARY STATEMENT:

Presentation of Valdez New Boat Harbor Construction Progress Reports by Ron Rozak, Arcadis US Inc.

July 2016



VALDEZ NEW BOAT HARBOR

CONSTRUCTION UPDATE (Phase 1 Uplands Civil Work)

Harris Sand & Gravel (HS&G) continued implementing SWPPP and traffic controls.

Water, Sewer and Storm Drain Systems – Finished storm drain and sanitary sewer manholes and installed a culvert across the entrance at West Access. Prepared for exfiltration (water tightness) testing of storm drain system, trimmed water line valve box risers to subgrade elevation and prepared for pressure testing the water main. Installed water service, backflow preventer, dry fire line and hydrant at ramps.

Ramp Abutments – Continued backfilling the Uplands side of retaining walls for ramp abutments. Placed filter rock and riprap on the water-side slope below the retaining walls.

Utilities and High Mast Lighting – CVEA placed concrete vaults at the future Wash Down and West Restroom areas. HS&G continued placing conduit for site power, signal, lighting and telephone and placed concrete for pads around foundation pilings at high mast lights. Underground utilities are about 90% complete and high mast lighting foundations are about 75% complete.

Waterfront Boardwalk and Sidewalk – Graded and started working on the sidewalk and boardwalk along the waterfront. Zastrow Enterprises placed concrete for the stemwall and narrow sidewalk between the boardwalk and curb. They also placed concrete for sleeper keys (small pads to support sleepers). Zastrow precast sleepers in their yard and started placing them on the sleeper keys.

Survey – Wrangell Mountain Technical Services continued surveying line and grade for sewer, water, ramp abutments and electrical activities, and to record as-built conditions.

General – Zastrow constructed columns to support future canopies at the East and West Picnic areas. Concrete placement was completed at the West Restroom area and decorative fish pole foundations, and for curb ramps at various locations. Sitework included backfilling abutments, sleepers, stemwalls, utility pads and electrical vaults; placing crushed gravel (Type II-A) for finish grade throughout the site; shaping the West Access slope and drainage ditches; constructing a berm at the west property line to restrict access to/from

PROJECT ACHIEVEMENTS

- Almost finished installing conduit for site electrical and telecom lines
- Completed installing water and sewer service lines
- Completed installing storm drain pipe and manholes
- Almost finished constructing boardwalk and plaza foundations
- Finished Upland Facilities 100% Design Documents
- Received USACE Permit Modification for added dredging, offshore disposal and drive-down ramp

JULY 2016 PROJECT UPDATE (CONT.)

SERVS property; placing riprap to final elevations along the east and south Upland fill slopes; final grading the east end of Hotel Hill and preparing for topsoil and seeding.

In addition to Phase 1 work, HS&G continued delivering rock to Western Marine for construction of the breakwaters.

EMC provided general observations, inspected pipe, conduit and rebar installation, tested soil compaction and sampled and tested concrete for curb and gutter, abutments, utility pads and boardwalk sleepers.

DESIGN

R&M Consultants (R&M) continued to work with the City of Valdez (COV) on design packages for future phases of the new harbor. The 100% design for Uplands Facilities is complete; the 100% design for Phase 2 Floats/Launch Ramp is due in August and the 95% design for Drive-Down Ramp and Float package is due in September. R&M continued to provide limited construction phase services for the Uplands Civil Work and coordinated with the US Army Corps of Engineers (USACE) regarding design modifications required to integrate the COV work into the USACE designed basin construction package. R&M provided a sketch for revised dredging and coordinated design elements with USACE. R&M obtained a federal permit modification for the Drive-Down Ramp/Float and Fish Cleaning Station, including in-water blasting and pile driving. R&M and Arcadis continued to work with the COV to evaluate options to minimize the cost of removing in-water rock and developing an RFP for Xcentric ripper test.

FUTURE MILESTONES

- Confirm scope and finalize bid documents for in-water rock removal, dredging, and sediment berm construction
- Finish backfilling retaining walls for ramp abutments
- Finish testing water main and ramp service lines, sewer and storm drain systems
- Finish grading and installing curb and sidewalk
- Finish Phase 2 Floats 100% Design Documents

USACE NAVIGATION IMPROVEMENTS

The USACE is administering the dredging and breakwater contract with Western Marine Construction (WMC). Western Marine continued dredging the new harbor basin, hauling rock from Valdez Glacier Quarry to Old Town or Sea Otter, then transferred to barge or rock truck for placement and completed installing wick drains for breakwater construction. WMC received a COV Temporary Land Use Permit for access and staging rock on the Uplands to construct the east and south breakwaters. COV representatives continued to attend the USACE weekly construction coordination meetings.

PROJECT TEAM

Jason Miles, Capital Facilities Director, City of Valdez || 907.835.5478

Lynn Meyers, Project Manager, USACE || 907.384.7966

Kim Nielsen, Group Manager, Waterfront Engineering, R&M Consultants || 907.646.9602

Carol Linnell, Admin. Asst., Harris Sand & Gravel || 907.835.4756

Ron Rozak, Construction Manager, Arcadis || 907.382.2933





Removing forms at columns to support canopy for future picnic area; high mast light foundation (at right)



Grouting conduit penetrations at ramp abutment for utility services to the floats



Placing concrete for pad around foundation piling for high mast light pole



Forming pads for sleepers that will support the wood beams and deck for west picnic area



Placing riprap on the fill slope near the east picnic area



Concrete curb and sidewalk (left), boardwalk sleepers (center), high mast light base (right)

PRELIMINARY PROJECT SCHEDULE

* Schedule and Scope depends on funding and USACE's completion of dredging and breakwater.

Task	2014	2015				2016				2017				2018
	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
CITY OF VALDEZ WORK														
Corps of Engineers Permit														
Phase 1 Uplands (Civil Work)														
Design/Bid/Award														
Construction														
Phase 2 Inner Harbor Facilities (Including Launch Ramp)														
Design/Bid/Award/Procurement*														
On-Site Construction*														
Uplands Facilities														
Design/Bid/Award/Procurement*														
On-Site Construction*														
Future Facilities	TBD													
CORPS OF ENGINEERS (USACE) WORK														
Harbor Dredging and Breakwaters														
Quarry Development/Dredging/ Breakwater Construction														

BUDGET SUMMARY

Description	Original Budget	Revised Budget	Committed	Spent as of 7/31/16	% Spent	Estimate at Completion
DESIGN	\$ 2,451,971	\$ 2,507,679	\$ 2,491,984	\$ 1,949,535	78%	\$ 2,507,679
Design	\$ 1,851,971	\$ 1,907,679	\$ 1,938,795	\$ 1,694,837	89%	\$ 1,983,470
Design Team Services During Construction	\$ 600,000	\$ 600,000	\$ 553,189	\$ 254,698	42%	\$ 524,209
PROJECT MANAGEMENT	\$ 2,340,548	\$ 2,362,548	\$ 1,841,827	\$ 1,458,490	62%	\$ 2,362,526
Project Management	\$ 1,740,548	\$ 1,762,548	\$ 1,478,877	\$ 1,216,248	69%	\$ 1,762,548
Inspection/Testing	\$ 600,000	\$ 600,000	\$ 362,950	\$ 242,241	40%	\$ 599,978
USACE CONSTRUCTION - CITY PORTION	\$ 9,345,453	\$ 9,345,453	\$ 7,145,453	\$ 4,761,258	51%	\$ 9,345,453
Initial Basin	\$ 7,145,453	\$ 7,145,453	\$ 7,145,453	\$ 4,761,258	67%	\$ 7,145,453
Other Basin Modifications	\$ 2,200,000	\$ 2,200,000	\$ -	\$ -	0%	\$ 2,200,000
CITY CONSTRUCTION	\$ 39,023,904	\$ 40,077,680	\$ 19,859,551	\$ 15,442,555	39%	\$ 40,787,214
Phase 1 Uplands	\$ 19,013,040	\$ 19,480,237	\$ 19,480,238	\$ 15,361,318	79%	\$ 19,480,237
Phase 2 Base Floats /Ramps/Fish Cleaning	\$ 9,300,100	\$ 9,800,100	\$ -	\$ -	0%	\$ 10,440,000
Upland Facilities	\$ 4,046,643	\$ 4,046,643	\$ -	\$ -	0%	\$ 4,116,277
Drive Down Float	\$ 4,951,721	\$ 4,951,721	\$ -	\$ -	0%	\$ 4,951,721
Drive-Down Float In-water Modifications	\$ 1,342,500	\$ 1,342,500	\$ -	\$ -	0%	\$ 1,342,500
Hotel Hill Clearing - Alaska Land Clearing	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	100%	\$ 40,000
Hotel Hill Clearing - P&R Enterprises	\$ 24,900	\$ 24,900	\$ 24,900	\$ 24,900	100%	\$ 24,900
Electric Primary	\$ 225,000	\$ 311,579	\$ 311,579	\$ 16,337	5%	\$ 311,579
CCTV/Security/Head End Equipment	\$ 80,000	\$ 80,000	\$ 2,834	\$ -	0%	\$ 80,000
ADMINISTRATION	\$ 60,000	\$ 60,000	\$ 43,011	\$ 43,011	72%	\$ 60,000
FFE	\$ 100,000	\$ 100,000	\$ -	\$ -	0%	\$ 100,000
CONTINGENCY (@ 15% original budget)	\$ 7,998,281	\$ 6,866,797			16%	\$ 6,157,285
TOTAL CITY FUNDED	\$ 61,320,157	\$ 61,320,157	\$ 31,381,826	\$ 23,654,849	39%	\$ 61,320,157
USACE FUNDED	\$ 21,277,761	\$ 21,277,761	\$ 21,277,761	\$ 7,133,712	34%	\$ 21,277,761
TOTAL CITY/USACE FUNDING	\$ 82,597,918	\$ 82,597,918	\$ 52,659,587	\$ 30,788,561	37%	\$ 82,597,918

* Data includes expenses from 5/22/14 which is the start of the Bond eligible costs authorized by COV Resolution 14-33. \$254,321.77 in R&M Expenses and other costs are not included. USACE expense data has been requested.

VALDEZ NEW BOAT HARBOR PHASE 1 - UPLANDS

CONSTRUCTION PROGRESS REPORT No. 42

JULY 18, 2016 – JULY 24, 2016

KEY CONSTRUCTION ACTIVITIES

This period Harris Sand & Gravel (HS&G):

- Continued implementing SWPPP and traffic controls.
- Continued preparing grade, forming and placing concrete for boardwalk sleeper keys and stemwalls.
- Started placing boardwalk sleepers at West end after keys (small pads) had cured.
- Finished placing concrete at West Restroom area, continued placement for sidewalk and curb ramps.
- Placed forms, rebar and concrete for footings and retaining walls (shore side) at the ramps.
- Trimmed water line valve box risers to top of subgrade elevation.
- Shaped drainage ditches along West Access.
- Placed concrete foundation pad for High Mast Light #2.
- Continued placing riprap to final elevation near Ramp #2.

Western Marine continues dredging the new harbor basin, hauling rock from Valdez Glacier Quarry, and placing rock by barge and trucks for construction of the breakwaters.

EMC inspected general progress, work layout, and fill placement. They also tested soil compaction and sampled and tested concrete. Photographs by ARCADIS and EMC unless noted.



Placing pre-cast concrete sleepers on cast-in-place keys, which support timber beams and decking for boardwalk

VALDEZ NEW BOAT HARBOR PHASE 1 - UPLANDS

CONSTRUCTION PROGRESS REPORT No. 42

JULY 18, 2016 - JULY 24, 2016



Forming footing for wall to protect utility stub-ups



Compacting subgrade for curb along boardwalk



Placing footing rebar for utility pad wall



Tying rebar between boardwalk stemwall and curb



Placing forms and rebar for utility pad wall



Finishing fresh concrete between stemwall and curb

VALDEZ NEW BOAT HARBOR PHASE 1 - UPLANDS

CONSTRUCTION PROGRESS REPORT No. 42

JULY 18, 2016 - JULY 24, 2016



Continuing to place forms for stemwall between curb and narrow sidewalk (left) and boardwalk (right)



West Picnic area canopy post foundations and deck sleeper keys (center left); high mast light pole foundation (center right), boardwalk sleepers, narrow sidewalk and curb (bottom)

VALDEZ NEW BOAT HARBOR PHASE 1 - UPLANDS

CONSTRUCTION PROGRESS REPORT No. 43

JULY 25, 2016 – JULY 31, 2016

KEY CONSTRUCTION ACTIVITIES

This period Harris Sand & Gravel (HS&G):

- Continued implementing SWPPP and traffic controls.
- Continued preparing grade, forming and placing concrete for boardwalk stemwalls.
- Continued placing boardwalk sleepers and grout at sleeper sleeves starting at west end.
- Placed rigid insulation and backfilled foundation for back flow preventer at Ramp #1.
- Continued backfilling abutments, sleepers, stemwalls, utility pads and electrical vaults.
- Prepared for pressure testing the water main installed through the site.
- Prepared for exfiltration (water tightness) testing of storm drain system.
- Constructed berm at west property line to restrict access to/from SERVS property.
- Continued shaping slopes and ditches along the West Access.
- The slope at the east end of Hotel Hill was final graded for seeding.

Western Marine continues dredging the new harbor basin, hauling rock from Valdez Glacier Quarry, and placing rock by barge and trucks for construction of the breakwaters.

EMC inspected general progress, work layout, and fill placement. They also tested soil compaction and sampled and tested concrete. Photographs by ARCADIS and EMC unless noted.



Western Marine continues dredging sediment to create the maneuvering channel and basin for the new harbor

VALDEZ NEW BOAT HARBOR PHASE 1 - UPLANDS

CONSTRUCTION PROGRESS REPORT No. 43

JULY 25, 2016 – JULY 31, 2016



Placing precast concrete sleepers for boardwalk



Insulating backflow preventer (BFP) foundation



Aligning sleepers on top of concrete pads



Backfilling BFP foundation with cement slurry



Two rebar and grout secure each sleeper to a pad



Placing riprap to protect abutment at Ramp #1

VALDEZ NEW BOAT HARBOR PHASE 1 - UPLANDS

CONSTRUCTION PROGRESS REPORT No. 43

JULY 25, 2016 – JULY 31, 2016



The slope at the east end of Hotel Hill was final graded for seeding



Compacting fill for a berm between the West Access and barricades placed along SERVS property

VALDEZ NEW BOAT HARBOR PHASE 1 - UPLANDS

CONSTRUCTION PROGRESS REPORT No. 45

AUGUST 8, 2016 – AUGUST 14, 2016

KEY CONSTRUCTION ACTIVITIES

This period Harris Sand & Gravel (HS&G):

- Continued implementing SWPPP and traffic controls.
- Continued forming and placing concrete for boardwalk stemwalls, sidewalk, curb and gutter.
- Continued installing saddle brackets and placing glulam beams for boardwalk and picnic areas.
- Continued placing and grouting boardwalk sleepers on keys.
- Placed concrete slab for utility equipment at Ramp #1.
- Placed forms, reinforcement and riprap at foundation for High Mast Light #3.
- Tested 8" HDPE sewer line for required pressure and duration.
- First Class Finishing (subcontractor) formed, placed and imprinted colored concrete.

CVEA placed a concrete electrical vault on the utility pad adjacent to Ramp #1.

Western Marine continues dredging the new harbor basin, hauling rock from Valdez Glacier Quarry, and placing rock by barge and trucks for construction of the breakwaters.

EMC inspected general progress, work layout, tested soil compaction and sampled and tested concrete. Photographs by ARCADIS and EMC unless noted.



Installing saddle brackets on picnic area sleepers to secure glulam beams (like boardwalk beams at bottom right)

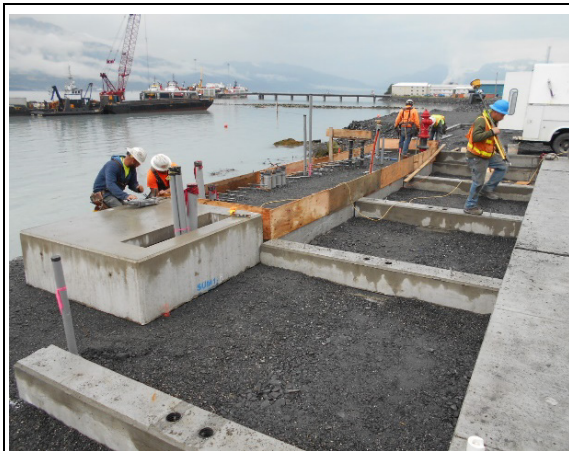
VALDEZ NEW BOAT HARBOR PHASE 1 - UPLANDS

CONSTRUCTION PROGRESS REPORT No. 45

AUGUST 8, 2016 – AUGUST 14, 2016



Mesh on concrete blocks for island area sidewalk



Forming utility slab and boardwalk stemwall



Placing red concrete for sidewalk at island area



Steel mesh and forms at utility slab



Brick pattern imprinted on concrete at island area



Plastic protects concrete finishing at utility slab

VALDEZ NEW BOAT HARBOR PHASE 1 - UPLANDS

CONSTRUCTION PROGRESS REPORT No. 45

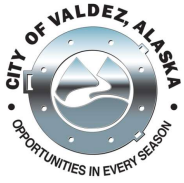
AUGUST 8, 2016 – AUGUST 14, 2016



Glulams for West Picnic Area have been placed and secured with saddle brackets. Steel brackets on top of the round concrete pilings will support the canopy structure (part of future building contract)



Installing solid blocking between glulam beams for the West Picnic Area



Legislation Text

File #: 16-0093, **Version:** 1

ITEM TITLE:

Port & Harbor Staff Report

SUBMITTED BY: Jenessa Ables, Port Operations Manager

FISCAL NOTES:

Expenditure Required: N/A

Unencumbered Balance: N/A

Funding Source: N/A

RECOMMENDATION:

N/A

SUMMARY STATEMENT:

Staff will provide the Commission with an updated report of recent Ports & Harbor operations.