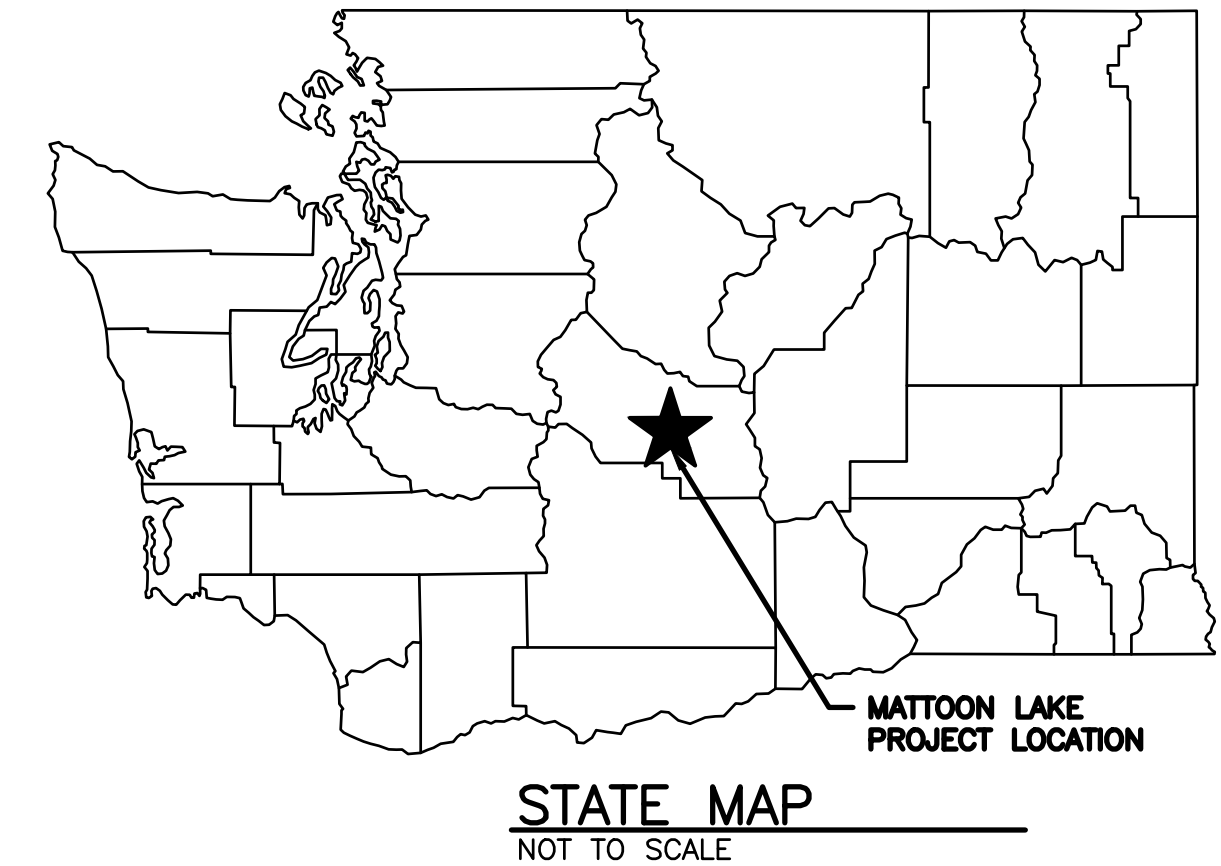




WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

MATTOON LAKE ACCESS SITE REDEVELOPMENT

KS:A278:2024-1



PROJECT INFORMATION

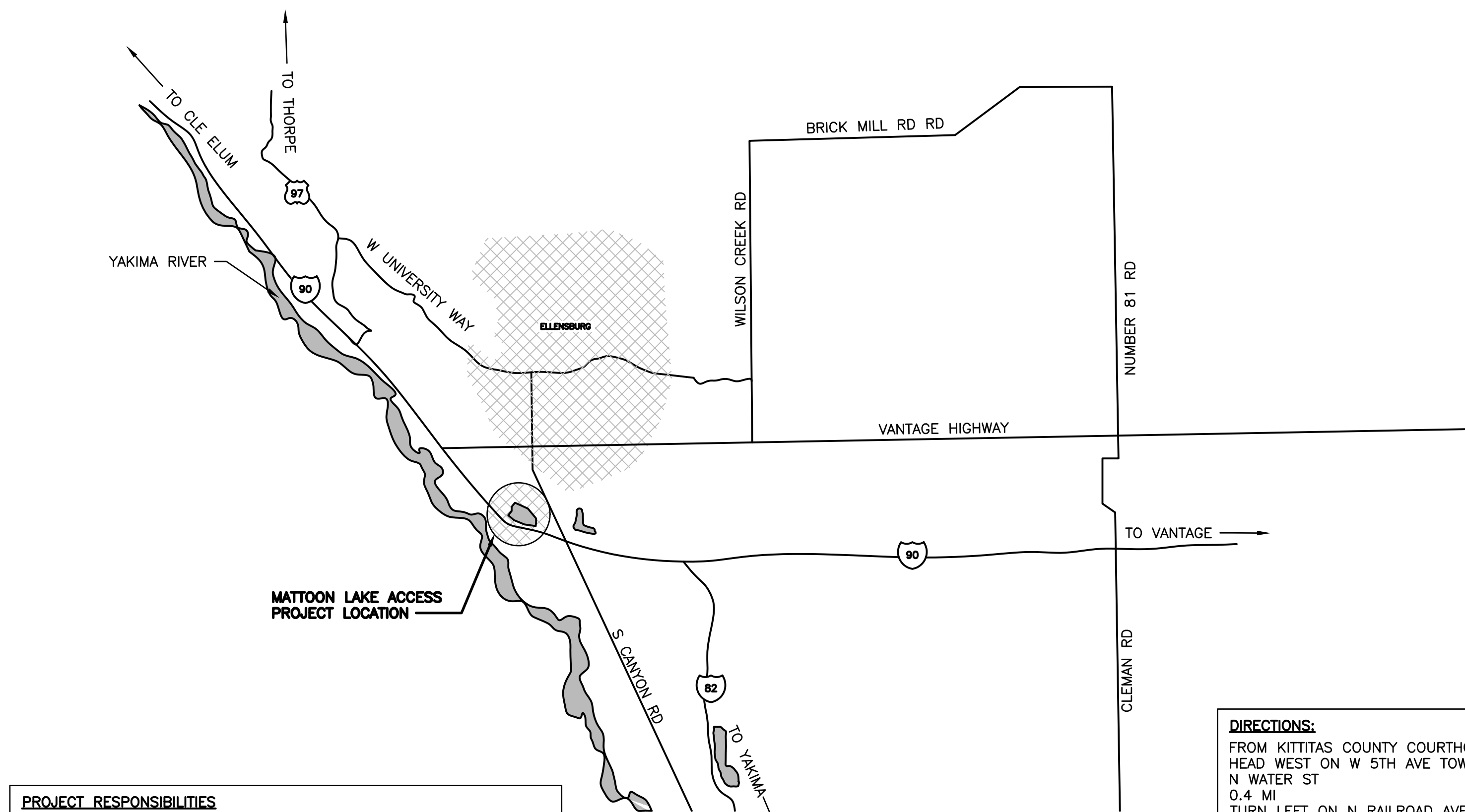
ADDRESS:
UMPTANUM RD
ELLENSBURG, WA 98926

LOCATION:
LAT: 46.978333
LONG: -120.553056
SECTION: 11
TOWNSHIP: 17N
RANGE: 18E W.M.
PARCEL: 307636
AREA: 52.89 ACRES

OWNER:
WASHINGTON DEPARTMENT OF FISH AND WILDLIFE
600 CAPITAL WAY N.
OLYMPIA, WA 98501
(360-902-8300)
DONALD C. PONDER, PE CHIEF ENGINEER
JOHN HANSEN, PROJECT MANAGER

SHEET INDEX

- | # | SHEET TITLE |
|----|-------------------------------------|
| 1 | COVER |
| 2 | PARCEL SITE PLAN |
| 3 | ENLARGED EXISTING SITE PLAN |
| 4 | ENLARGED PROPOSED SITE PLAN |
| 5 | FISHING FLOAT PLAN & PROFILE |
| 6 | GENERAL NOTES |
| 7 | 6' X 20' FLOAT PLAN AND ELEVATION |
| 8 | 6' X 20' FLOAT SECTIONS AND DETAILS |
| 9 | 6' X 20' MISCELLANEOUS DETAILS |
| 10 | HINGE AND ABUTMENT DETAILS |
| 11 | 10' x 34' FLOAT PLAN AND SECTION |
| 12 | DETAILS 1 |
| 13 | DETAILS 2 |
| 14 | ACCESSIBLE PARKING DETAILS |
| 15 | CXT GUNNISON VAULT TOILET DETAILS |



VICINITY MAP
NOT TO SCALE

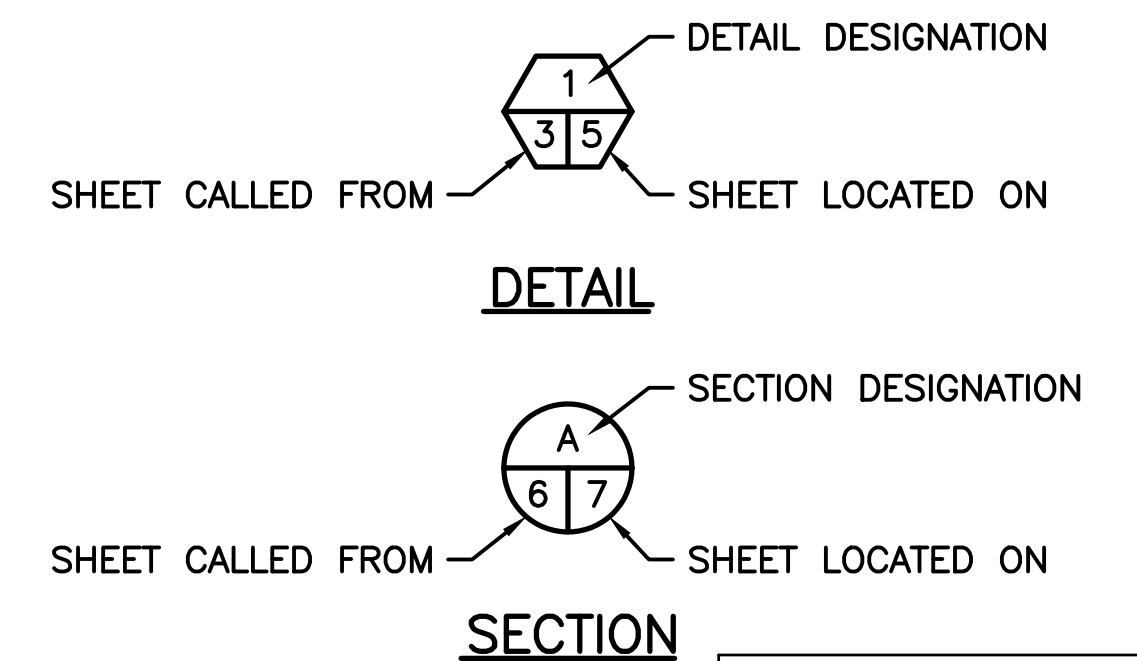
PROJECT RESPONSIBILITIES	
WDFW:	<ol style="list-style-type: none"> PROVIDE DEMOLITION AND HAUL AWAY OF EXISTING FLOAT. FURNISH AND ASSEMBLE FLOAT ASSEMBLY. FURNISH AND INSTALL FLOAT TO ABUTMENT HINGE. FURNISH AND INSTALL GRADING AND BARRIER ROCK. DEMO EXISTING TOILET AND INSTALL NEW TOILET.
CXT:	<ol style="list-style-type: none"> FURNISH AND DELIVER GUNNISON TOILET INCLUDING DELIVERY AND CRANE PLACEMENT.
PILING CONTRACTOR:	<ol style="list-style-type: none"> FURNISH (3) 8"X40" PILING. INSTALL PILING TO FIELD FIT IN SUPPLIED FLOAT HOOPS. WELD PILE CAPS IN PLACE.

DIRECTIONS:
FROM KITTITAS COUNTY COURTHOUSE
HEAD WEST ON W 5TH AVE TOWARDS
N WATER ST
0.4 MI
TURN LEFT ON N RAILROAD AVE
0.9 MI
CONTINUE ONTO ANDERSON RD
0.2 MI
TURN RIGHT ONTO UMPTANUM RD
433 FT
DESTINATION ON LEFT

ABBREVIATIONS

ALUM	-	ALUMINUM
L	-	ANGLE
APPROX	-	APPROXIMATELY
BM	-	BENCH MARK
CL	-	CENTERLINE
CMP	-	CORRUGATED METAL PIPE
CLR	-	CLEARANCE
CONC	-	CONCRETE
CSBC	-	CRUSHED SURFACE BASE COURSE
CSTC	-	CRUSHED SURFACE TOP COURSE
DIA	-	DIAMETER
ELEV	-	ELEVATION
FB	-	FLAT BAR
FTG	-	FOOTING
FT	-	FEET
GALV	-	GALVANIZED
HDPE	-	HIGH-DENSITY POLYETHYLENE
HSS	-	SQUARE HOLLOW STRUCTURAL SECTION
ID	-	INSIDE DIAMETER
IE	-	INVERT ELEVATION
MFG	-	MANUFACTURER'S
MISC	-	MISCELLANEOUS
MI	-	MILES
OC	-	ON CENTER
OHW	-	ORDINARY HIGH WATER
OD	-	OUTSIDE DIAMETER
PL	-	PLATE
PSF	-	POUNDS PER SQUARE FOOT
REQ'D	-	REQUIRED
SEC	-	SECTION
SPEC'S	-	PROJECT SPECIFICATIONS
SS	-	STAINLESS STEEL
TYP	-	TYPICAL
UHMW	-	ULTRA-HIGH-MOLECULAR-WEIGHT POLYETHYLENE
WS	-	WATER SURFACE

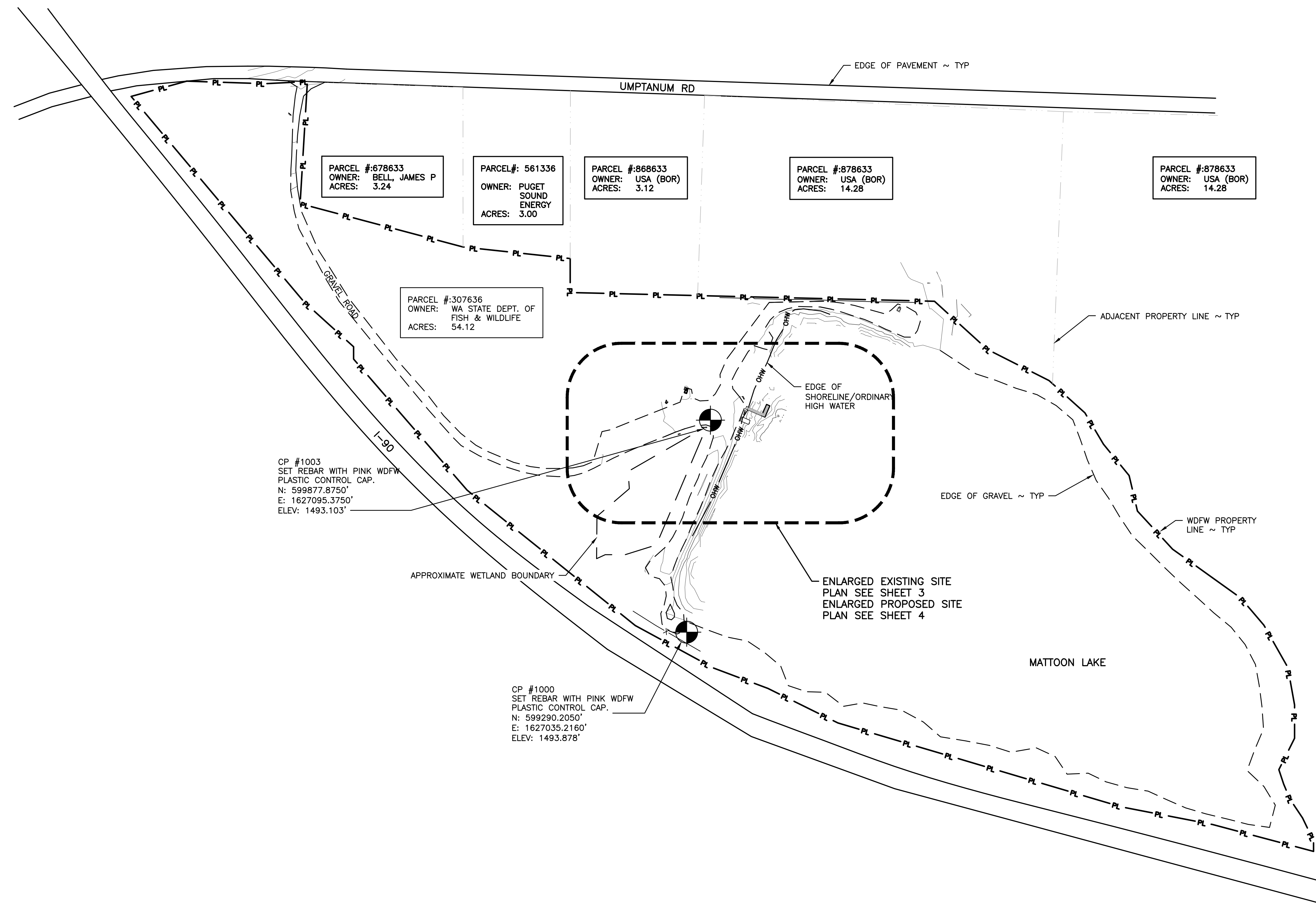
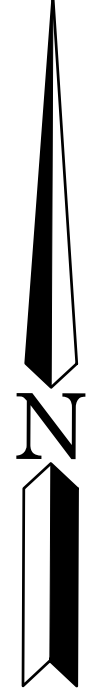
SHEET SYMBOLS



KNOW WHAT'S BELOW
CALL BEFORE YOU DIG

PROJECT NO.
KS:A278:2024-1

SHEET	OF
1	15



PARCEL #:678633
OWNER: BELL, JAMES P
ACRES: 3.24

PARCEL#: 561336
OWNER: PUGET SOUND ENERGY
ACRES: 3.00

PARCEL #:868633
OWNER: USA (BOR)
ACRES: 3.12

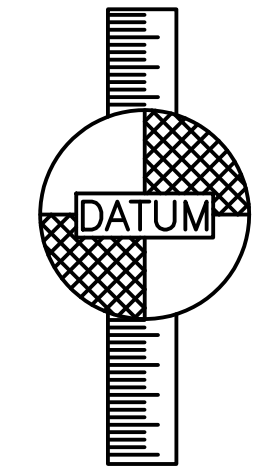
PARCEL #:878633
OWNER: USA (BOR)
ACRES: 14.28

PARCEL #:878633
OWNER: USA (BOR)
ACRES: 14.28

PARCEL #:307636
OWNER: WA STATE DEPT. OF FISH & WILDLIFE
ACRES: 54.12

CP #1003
SET REBAR WITH PINK WDFW PLASTIC CONTROL CAP.
N: 599877.8750'
E: 1627095.3750'
ELEV: 1493.103'

CP #1000
SET REBAR WITH PINK WDFW PLASTIC CONTROL CAP.
N: 599290.2050'
E: 1627035.2160'
ELEV: 1493.878'

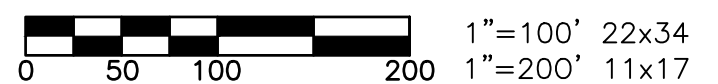


NAVD 88

VERTICAL DATUM

NAVD 88 DERIVED FROM GPS MON PID SB05444.

PARCEL SITE PLAN



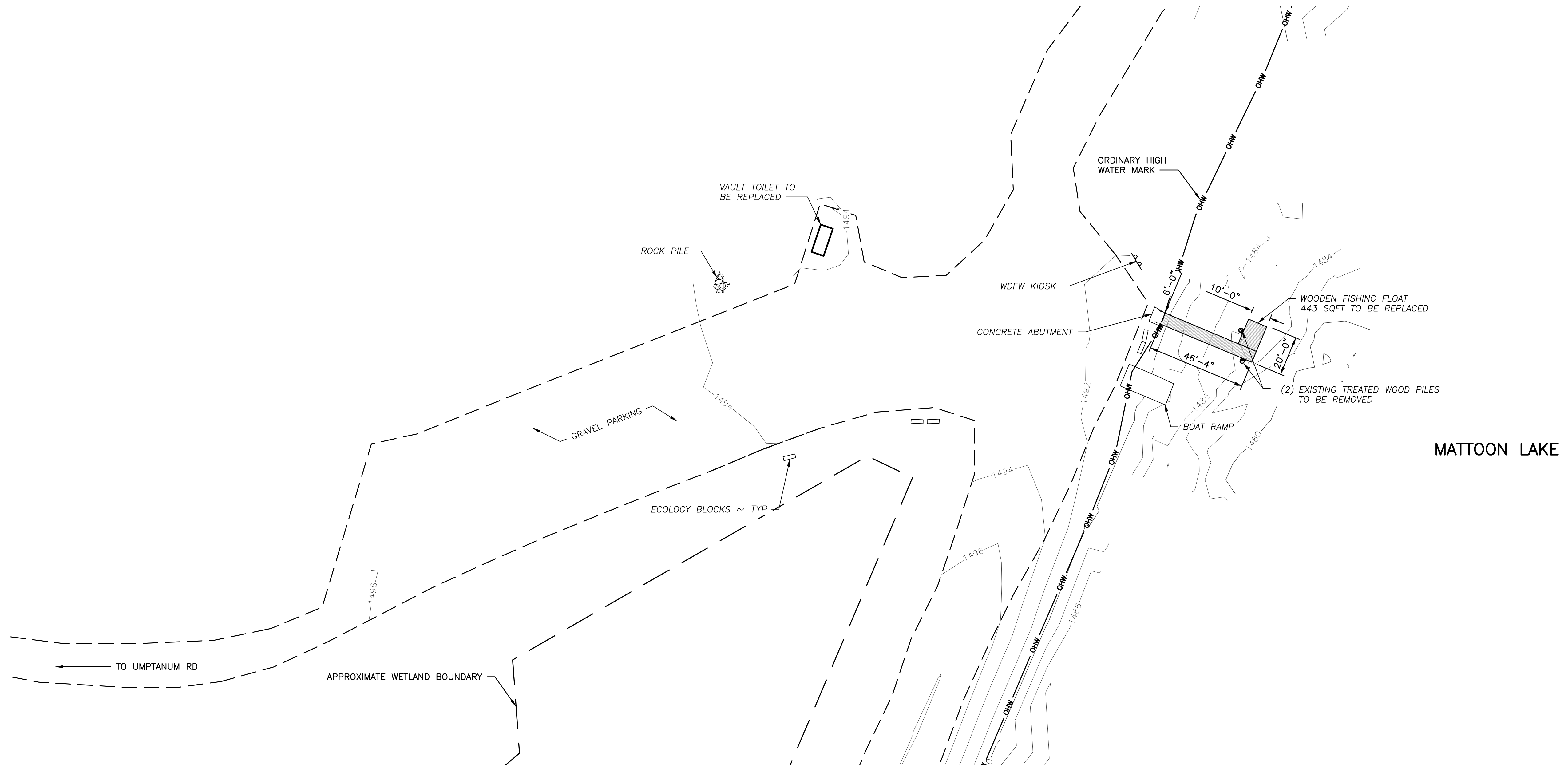
WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

SYM	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	
CHIEF ENGINEER	DATE		DESIGNED BY J.HANSEN
PROGRAM	DATE		CHECKED BY S.GOODWIN
			DRAWN BY S. SPARKS
			DATE 1/24/2024

MATTOON LAKE ACCESS
SITE REDEVELOPMENT
PARCEL SITE PLAN

PROJECT NO.
KS:A278:2024-1

SHEET OF
2 15



ENLARGED EXISTING SITE PLAN



WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

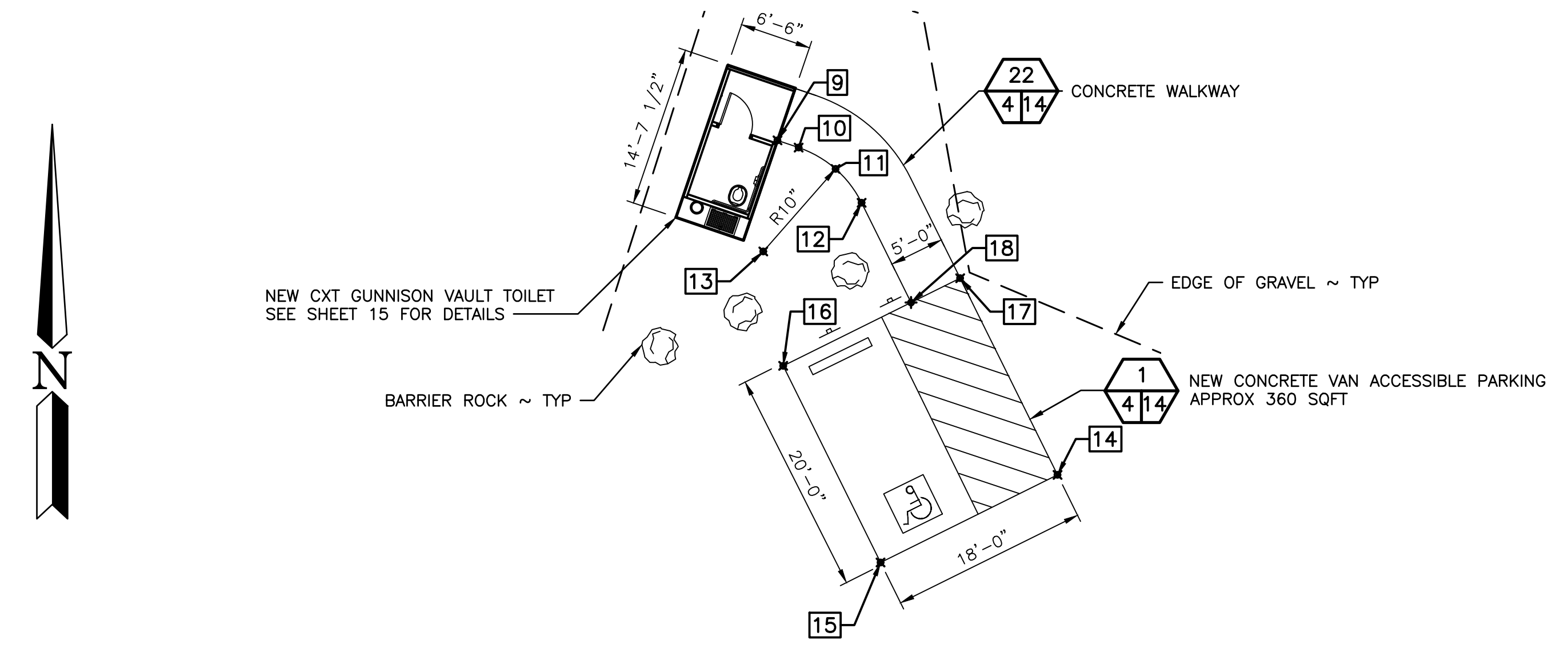
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ENLARGED EXISTING SITE PLAN

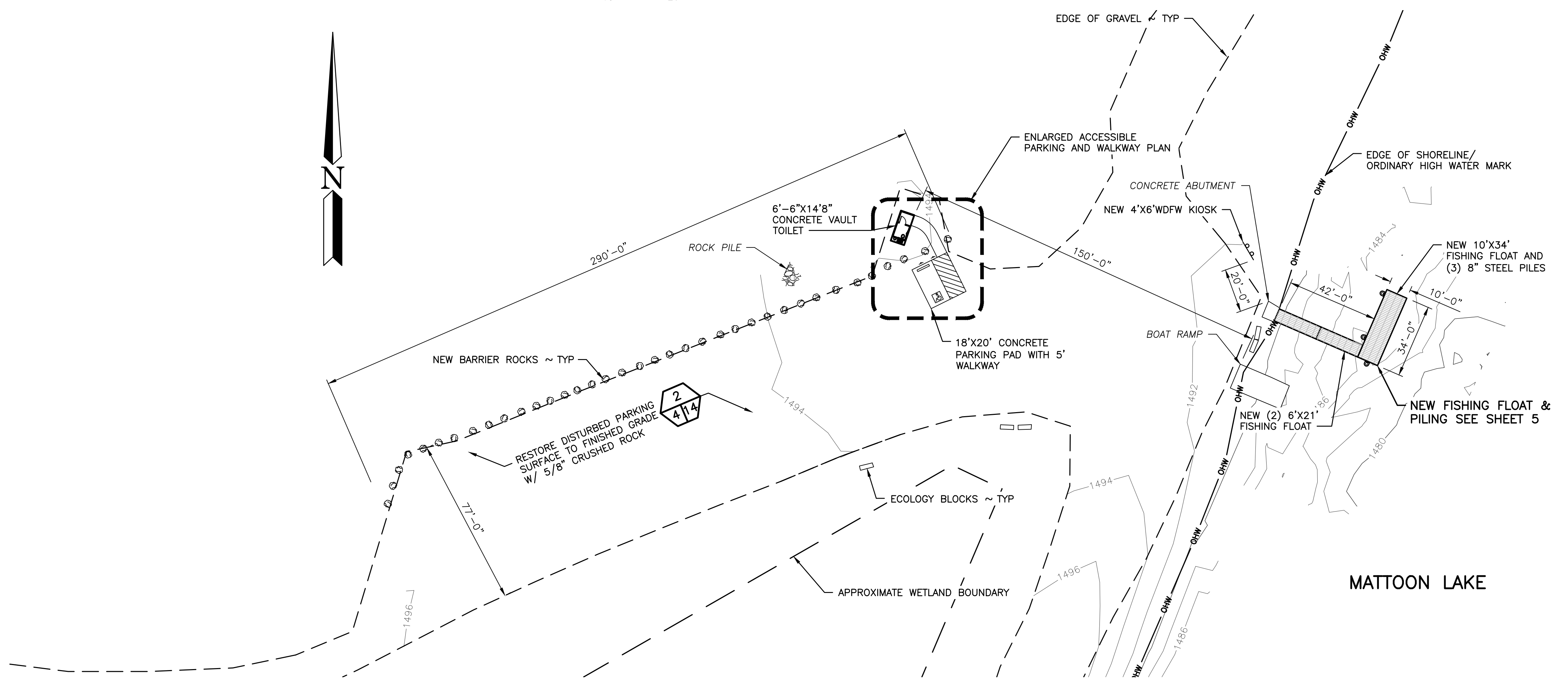
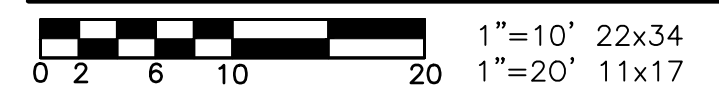
PROJECT NO.
KS:A278:2024-1

SHEET OF
3 **15**

ADA CONCRETE PARKING AND WALKWAY POINTS				
POINT #	LONGITUDE	LATITUDE	ELEVATION	DESCRIPTION
9	-120.553572	046.978555	1495.00	START WALKWAY
10	-120.553565	046.978553	1494.66	START CURVE
11	-120.553551	046.978548	1494.35	CURVE MID-POINT
12	-120.553542	046.978539	1494.15	POINT OF TANGENT
13	-120.553577	046.978527	1494.34	ORIGIN OF RADIUS
14	-120.553470	046.978471	1493.85	ACCESSIBLE PARKING CORNER
15	-120.553535	046.978449	1494.00	ACCESSIBLE PARKING CORNER
16	-120.553570	046.978499	1493.95	ACCESSIBLE PARKING CORNER
17	-120.553506	046.978520	1494.25	ACCESSIBLE PARKING CORNER
18	-120.553524	046.978514	1494.20	END OF WALKWAY



ENLARGED ACCESSIBLE PARKING AND WALKWAY PLAN



ENLARGED PROPOSED SITE PLAN

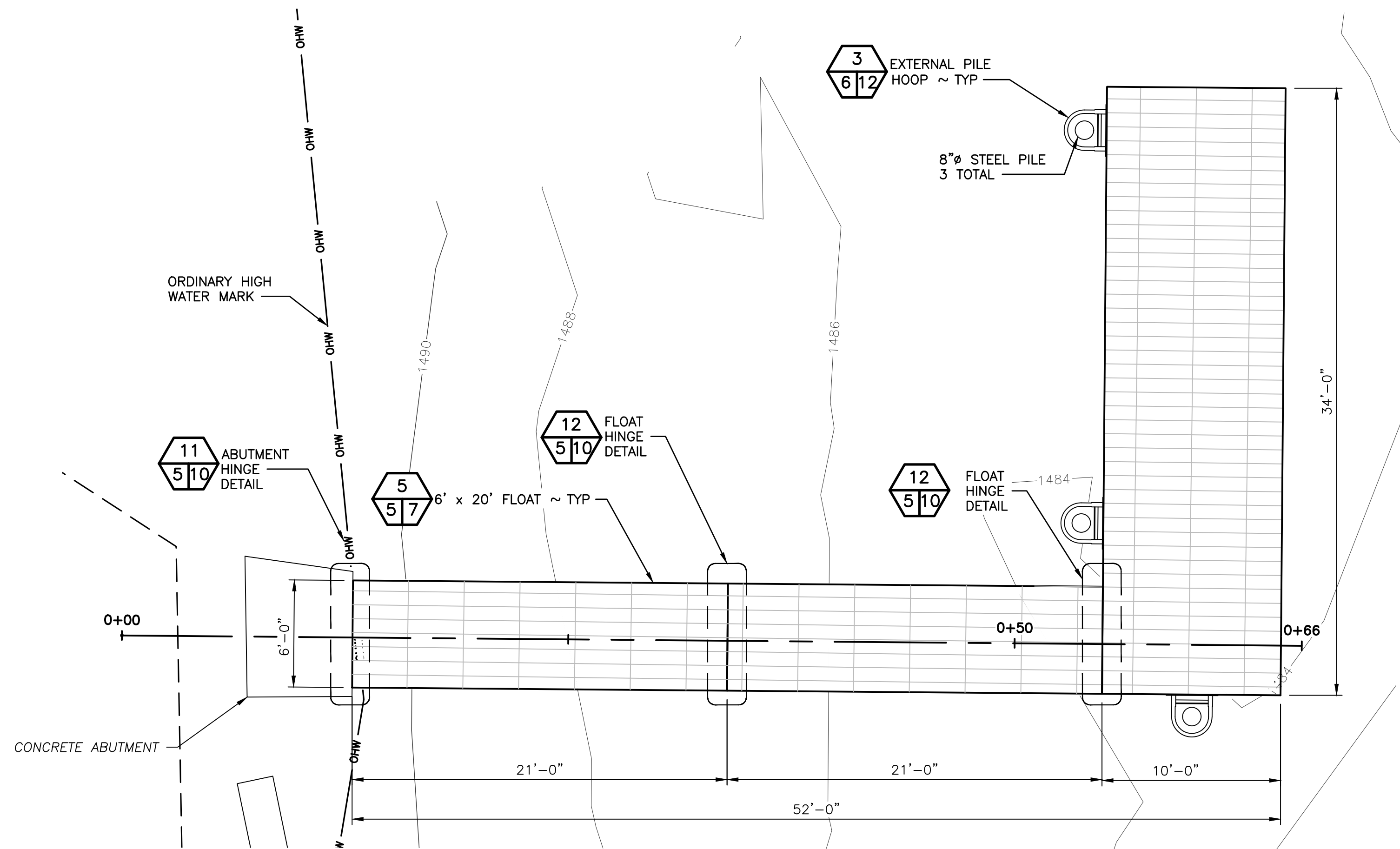
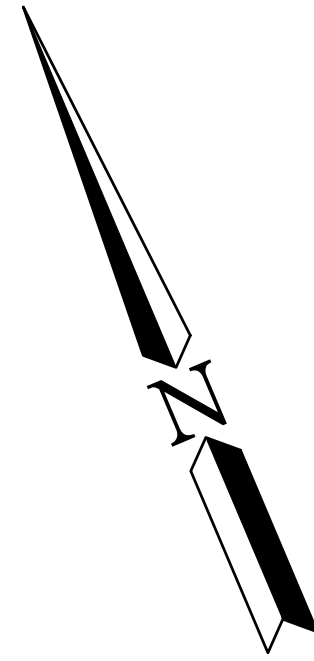


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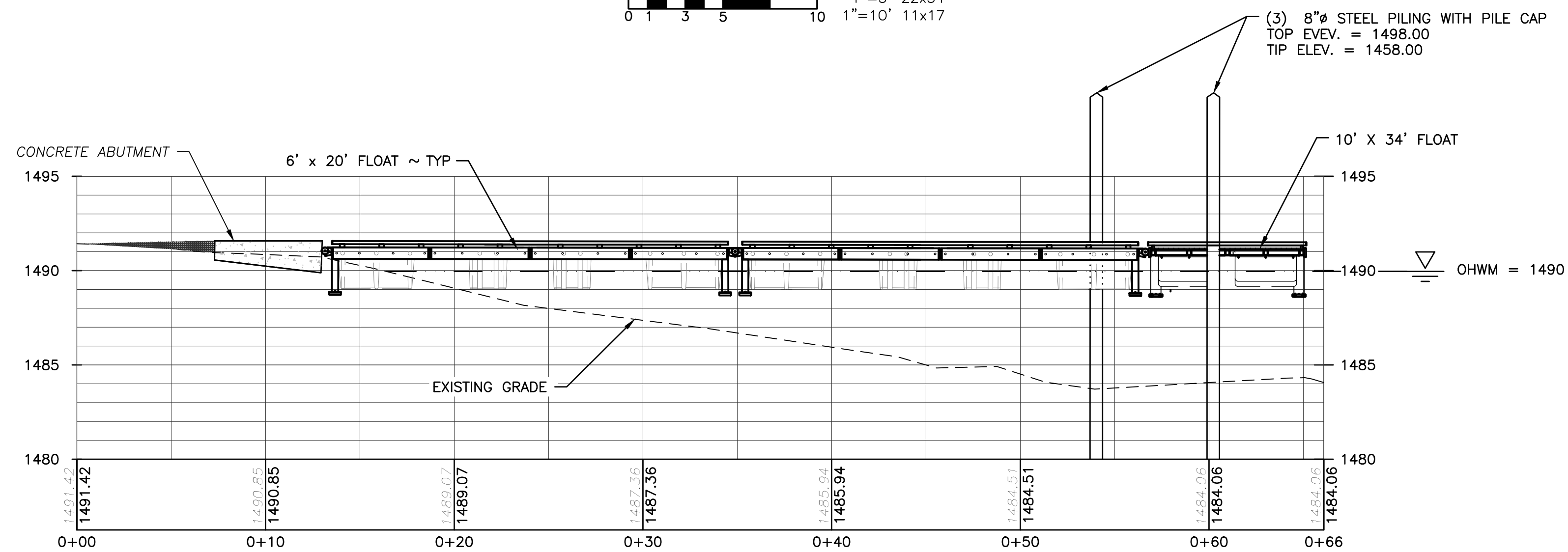
MATTOON LAKE ACCESS
SITE REDEVELOPMENT
ENLARGED PROPOSED SITE PLAN

PROJECT NO. KS:A278:2024-1	
SHEET 4	OF 15



FISHING FLOAT PLAN

SCALE: 1" = 5'
 0 1 3 5 10 1"=5' 22x34
 1"=10' 11x17



ABUTMENT & FLOATS PROFILE

SCALE: 1" = 5'
 0 1 3 5 10 1"=5' 22x34
 1"=10' 11x17

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

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MATTOON LAKE ACCESS
 SITE REDEVELOPMENT
 FISHING FLOAT PLAN & PROFILE

PROJECT NO.
 KS:A278:2024-1

SHEET OF
 5 15

FLOAT NOTES

1. SITE LOCATION: SHELTERED SITES WITHIN WASHINGTON STATE. FLOATS IN AREAS WITH SEVERE WINTER STORMS WILL BE SEASONALLY REMOVED.
2. FLOTATION DRUMS AND STEEL FRAMING SUSCEPTIBLE TO DAMAGE IF LEFT IN-PLACE OVERWINTER IN AN AREA WHERE THE WATER BODY FREEZES OVER.
3. FLOATS ARE DESIGNED AS BOAT LAUNCH BOARDING FLOATS AND SHALL NOT BE USED AS MARINA FLOATS OR GANGWAY LANDING FLOATS.
4. FLOATS SHALL GROUND OUT ON AN IMPROVED SURFACE (SUCH AS CONCRETE OR GRAVEL).
5. ONE PILE PER FLOAT UNIT SHALL BE PROVIDED FOR LATERAL RESTRAINT. PILE WILL BE LOCATED AT MID-LENGTH OF FLOAT UNIT.
6. ABUTMENT HINGE CONNECTION SHALL BE INSTALLED WITH CARE, MAKING SURE IT ALIGNS CORRECTLY WITH THE PILING.
7. FLOATS AND PILING SHALL BE INSTALLED SUCH THAT THE FLOATS DO NOT BIND ON PILE HOOPS FOR THE FULL DESIGN RANGE OF WATER ELEVATIONS.
8. PILE HOOPS NOT DESIGNED TO BE USED AS A DRIVING TEMPLATE. CONTRACTOR MAY USE THE PILE HOOPS AS A DRIVING TEMPLATE AT THEIR OWN RISK, AND ANY DAMAGE TO THE FLOATS WILL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
9. THREADED AND TAPPED HOLES SHALL BE SIZED WITH CONSIDERATION FOR THE THICKNESS OF THE GALVANIZED COATING.

LIFTING OF FLOAT MODULES

FLOAT MAY BE LIFTED FROM DESIGNATED LOCATIONS ALONG BULLRAIL. MAKE SURE BULLRAIL AND SCUPPER BLOCKS ARE NOT SUBJECTED TO BENDING LOADS DURING LIFTING.

ALWAYS FULLY VISUALLY INSPECT THE BULLRAIL AND SCUPPER BLOCKS FOR DAMAGE PRIOR TO USING THE BULLRAIL FOR LIFTING. IT IS FEASIBLE THAT THE BULLRAIL COULD BE DAMAGED DURING FACILITY USE, COMPROMISING THE ABILITY OF THE BULLRAILS TO RESIST LIFTING LOADS. NOT ALL DAMAGE WILL BE READILY VISUALLY APPERANT. RISK OF BULLRAIL FAILURE DURING LIFTING IS ELIMINATED BY STRAPPING AROUND THE ENTIRE FLOAT TO FACILITATE LIFTING.

NEVER LIFT THE FLOAT OVER PERSONNEL OR EQUIPMENT, AND KEEP THE FLOAT AS CLOSE TO THE GROUND AS POSSIBLE WHILE HANDLING.

DESIGN CRITERIA

1. DESIGN WAVE HEIGHT = 2.5 FEET.
2. DESIGN WAVE PERIOD = 3 SECONDS
3. LIVE LOAD = 30 PSF (FOR STRUCTURAL FRAMING, FLOATS GROUNDED ON RAMP)
4. LIVE LOAD = 25 PSF FOR BUOYANCY AND FLOAT STABILITY
5. EXPOSURE: SITE IS TO BE FAIRLY SHELTERED FROM WIND/WAVES/CURRENTS.
6. SEASONAL REMOVAL: IF REQUIRED, FLOATS WILL BE SEASONALLY REMOVED TO PREVENT EXPOSURE TO SEVERE WIND/WAVES.
7. ICE: FLOATS ARE NOT DESIGNED TO RESIST ICE LOADS, AND DAMAGE TO IN-WATER COMPONENTS WOULD LIKELY OCCUR IF THEY WERE LEFT IN-PLACE THROUGH THE WINTER IN A WATER BODY THAT WILL FREEZE OVER.
8. CURRENT VELOCITY: 1.5 FEET PER SECOND
9. VESSEL: 26' TRAILERABLE RECREATIONAL VESSEL
10. DESIGN HIGH WATER = 1491.0'
11. DESIGN LOW WATER = 1498.0'

MATERIALS

A SUMMARY OF PROJECT MATERIALS IS PROVIDED BELOW. FOR DETAILED MATERIAL REQUIREMENTS SEE PROJECT SPECIFICATIONS.

1. STEEL SHAPES
CHANNEL: ASTM A36
HSS: ASTM A500 Gr. B 46 ksi
PIPE: ASTM A500 MIN 46 ksi
ANGLE: ASTM A36
PLATE: ASTM A36
2. MISC PRODUCTS

FIBERGLASS GRATING: 1" FIBERGRATE ECOGRATE 62, LIGHT GRAY, INTEGRALLY APPLIED STANDARD QUARTZ GRIT SURFACE.

UHMW: TIVAR UV RESISTANT OR APPROVED EQUAL WITH EQUAL OR GREATER TENSILE STRENGTH (5,800 psi), AND NO BREAK FOR ASTM D256 TYPE A TEST, AND 47.6 LB-FT FOR A DOUBLE-NOTCH TEST. COLOR TO BE BLACK UNLESS OTHERWISE NOTED.

RUBBER HINGE BUSHINGS: HIGH-QUALITY UHMW

HDPE RUB STRIP: BEDFORD FIBERFORCE (MOLDED), COLOR LIGHT GRAY, OR APPROVED EQUAL

HDPE PILE HOOP PERIMETER: BEDFORD SELECTFORCE (EXTRUDED), COLOR YELLOW, OR APPROVED EQUAL

BOLTS: ASTM A307, HOT DIP GALVANIZED

HINGE PIN, END PLATE AND COTTER PIN: 316SS
3. COATINGS: FLOAT FRAME IS TO BE HOT DIP GALVANIZED AFTER FABRICATION USING A PROGRESSIVE DIP.

GALVANIZING

1. HOT-STICK REPAIR ONLY
2. BRUSH ALL THREADED AND TAPPED HOLES AFTER HOT-DIP-GALVANIZING WHILE THE FLOAT FRAME IS STILL HOT. HOLES SHALL BE TESTED TO ENSURE COMPATIBILITY WITH THE SPECIFIED BOLTS AT GALVANIZER PRIOR TO SHIPPING FLOAT FRAME. THREADED AND TAPPED HOLES EXIST AT THE FOLLOWING LOCATIONS:
 - A) GROUNDING SHOE BASE PLATES
 - B) OPTIONAL GRAB BAR
 - C) YELLOW HDPE AROUND INTERNAL PILE HOOP
 - D) RUB STRIP WITHIN 5 FEET OF INTERNAL PILE HOOP

IN ADDITION TO STRUCTURAL WELDS SHOWN, PROVIDE A MINIMUM 1/8" FILLET OR EQUIVALENT GROOVE WELD AS REQUIRED TO COMPLETELY SEAL ALL EDGES OF CONTACTING SURFACES PRIOR TO GALVANIZING.

**WASHINGTON DEPARTMENT OF
FISH & WILDLIFE**

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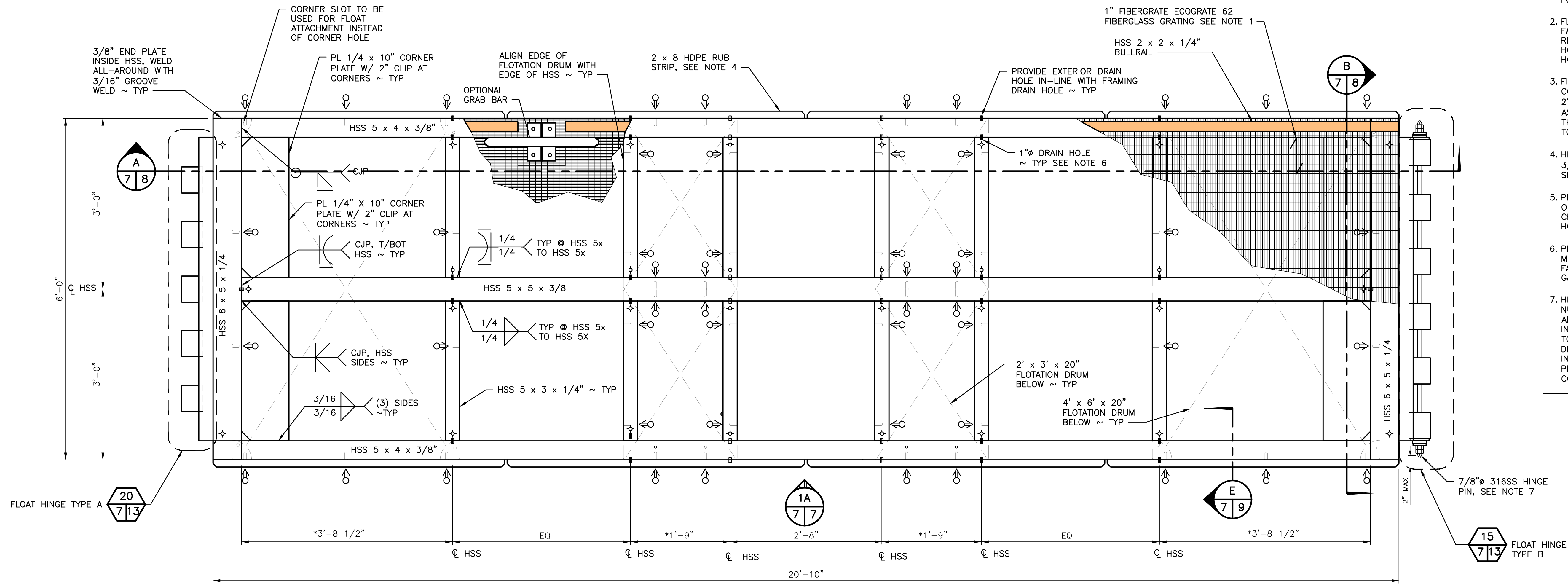
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**MATTOON LAKE ACCESS
SITE REDEVELOPMENT
GENERAL NOTES**

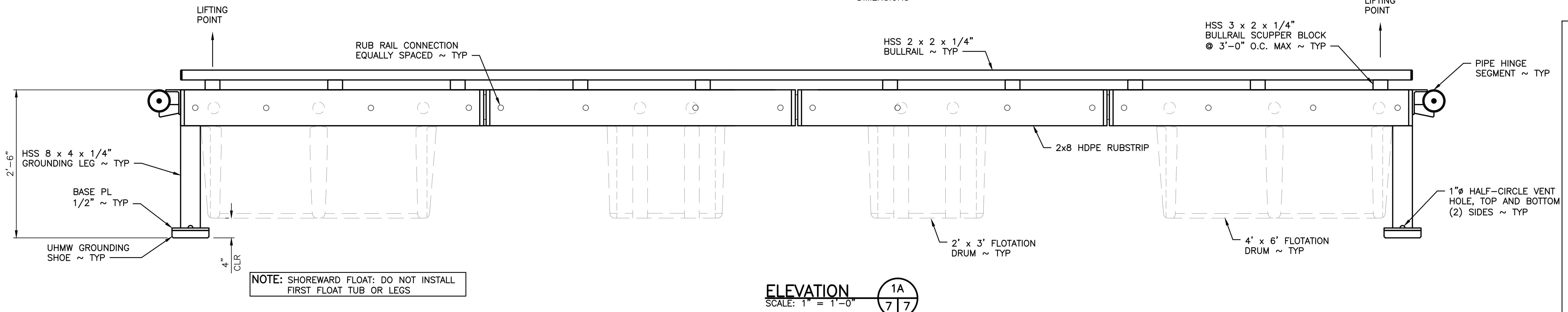
PROJECT NO.
KS:A278:2024-1

SHEET OF
6 15

- NOTES:**
1. SECURE GRATING IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS. EACH GRATING PANEL IS TO BE FULLY SUPPORTED ON ALL FOUR EDGES.
 2. FLOAT FRAME TO BE HOT DIP GALVANIZED AFTER FABRICATION. CONTRACTOR TO PROVIDE REQUIRED DRAIN HOLES. PROPOSED DRAIN HOLE LOCATIONS ARE SHOWN. SHOW ALL DRAIN HOLE LOCATIONS IN FLOAT SHOP DRAWINGS.
 3. FIELD-LEVEL FLOAT WITH COUNTERWEIGHTS. CONTRACTOR TO PROVIDE (6) PL 1/2" x 4" x 2'-0" PER FLOAT MODULE. COUNTERWEIGHT ASSEMBLY SHALL BE SECURED WITH FOUR 3/4" THRU BOLTS. PROVIDE RECESS IN RUB STRIP TO ACCOMMODATE THRU BOLT HEAD.
 4. HDPE RUB STRIP, MAX 5'-6" LENGTH, PROVIDE 3/4" CHAMFER AT ENDS, 1/2" GAP BETWEEN SEGMENTS, COLOR LIGHT GRAY.
 5. PROVIDE 3/8" WEEP HOLES AT THE UNDERSIDE OF EACH END OF EACH HORIZONTAL CROSS-BEAM TO PREVENT MEMBERS FROM HOLDING WATER.
 6. PROVIDE 1" VENT HOLES IN SIDES OF HSS MEMBERS INSIDE OF CONNECTING TUBE TO FACILITATE COMPLETE DRAINING DURING HOT DIP GALVANIZING, CENTERED IN HSS 5x.
 7. HINGE PIN TO BE SECURED WITH A DOUBLE-JAM NUT (DO NOT OVER-TIGHTEN, PREVENT GALLING), AND SHALL BE FREE TO ROTATE AFTER INSTALLATION. THE END OF THE HINGE PIN IS TO HAVE A 30 DEGREE BEVEL, WITH A 1/4" DIAMETER ROUNDED END TO FACILITATE INSERTION INTO THE HINGE BUSHINGS. HINGE PIN IS TO HAVE A HOLE AND 1/4" 316SS COTTER PIN EACH END.



6' X 20' FLOAT PLAN
 SCALE: 1" = 1'-0"
 NOTE: BULLRAIL, SCUPPER BLOCKS, WEEP HOLES, GROUNDING LEGS NOT SHOWN FOR CLARITY.
 * DIMENSION BASED ON FLOAT DRUM MANUFACTURER-PROVIDED INFORMATION CONTRACTOR TO VERIFY AS-BUILT FLOAT DRUM DIMENSIONS



LEGEND

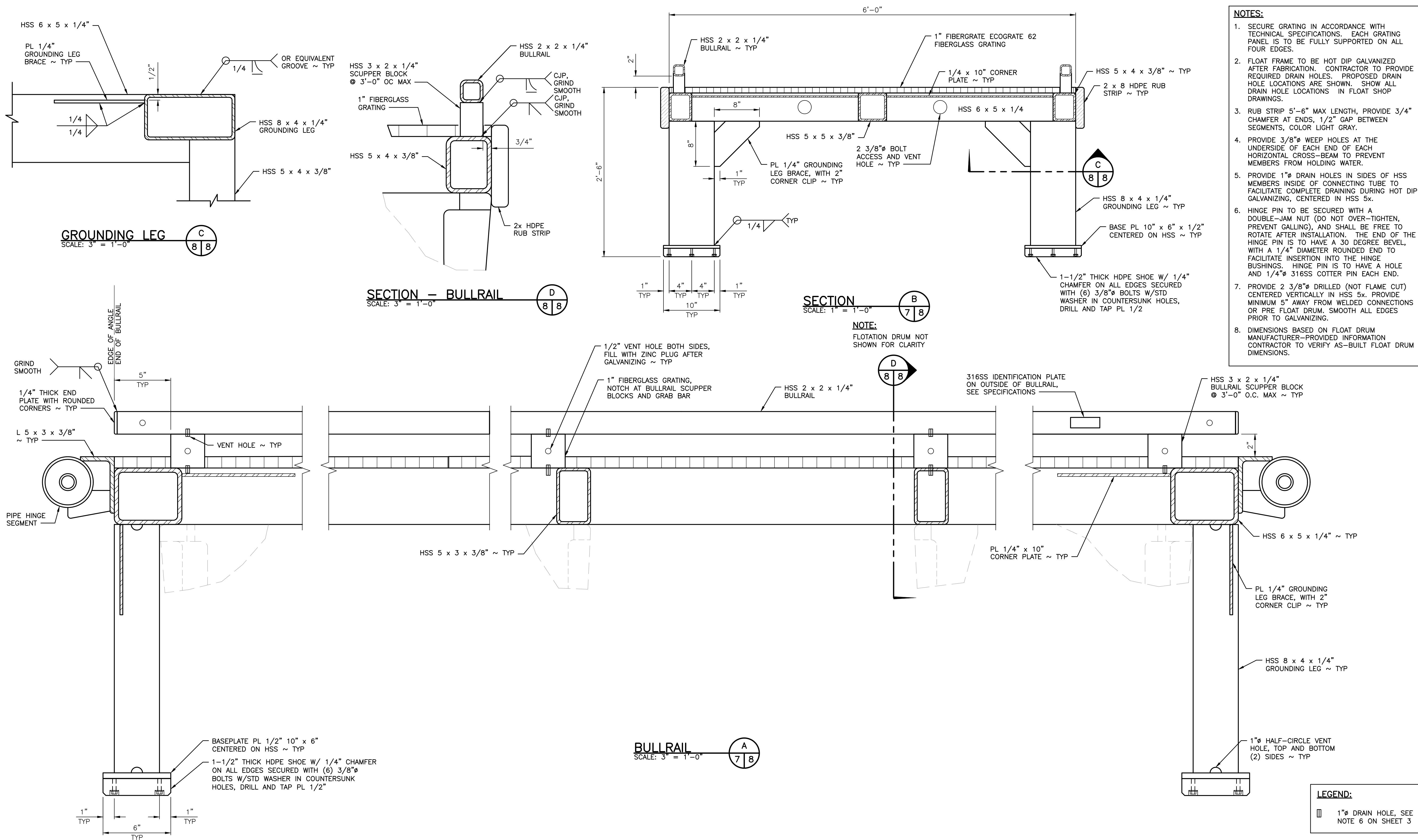
- 2-3/8" DRILLED (NOT FLAME CUT) BOLT ACCESS OR VENT HOLE CENTERED VERTICALLY IN HSS 5x. PROVIDE MINIMUM 5" AWAY FROM WELDED CONNECTIONS. SMOOTH ROUGH EDGES PRIOR TO GALVANIZING.
- 1" VENT HOLE, SEE NOTE 6
- 3/8" WEEP HOLE, SEE NOTE 5

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

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CHECKED BY S. GOODWIN			
DRAWN BY S. SPARKS			
DATE 1/24/2024			
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CHIEF ENGINEER _____ DATE: _____			
PROGRAM _____ DATE: _____			

MATTOON LAKE ACCESS
 SITE REDEVELOPMENT
 6' X 20' FLOAT PLAN AND ELEVATION

PROJECT NO.
 KS:A278:2024-1
 SHEET 7 OF 15



- NOTES:**
1. SECURE GRATING IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS. EACH GRATING PANEL IS TO BE FULLY SUPPORTED ON ALL FOUR EDGES.
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 3. RUB STRIP 5'-6" MAX LENGTH, PROVIDE 3/4" CHAMFER AT ENDS, 1/2" GAP BETWEEN SEGMENTS, COLOR LIGHT GRAY.
 4. PROVIDE 3/8" WEEP HOLES AT THE UNDERSIDE OF EACH END OF EACH HORIZONTAL CROSS-BEAM TO PREVENT MEMBERS FROM HOLDING WATER.
 5. PROVIDE 1" DRAIN HOLES IN SIDES OF HSS MEMBERS INSIDE OF CONNECTING TUBE TO FACILITATE COMPLETE DRAINING DURING HOT DIP GALVANIZING, CENTERED IN HSS 5x.
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 7. PROVIDE 2 3/8" DRILLED (NOT FLAME CUT) CENTERED VERTICALLY IN HSS 5x. PROVIDE MINIMUM 5" AWAY FROM WELDED CONNECTIONS OR PRE FLOAT DRUM. SMOOTH ALL EDGES PRIOR TO GALVANIZING.
 8. DIMENSIONS BASED ON FLOAT DRUM MANUFACTURER-PROVIDED INFORMATION CONTRACTOR TO VERIFY AS-BUILT FLOAT DRUM DIMENSIONS.

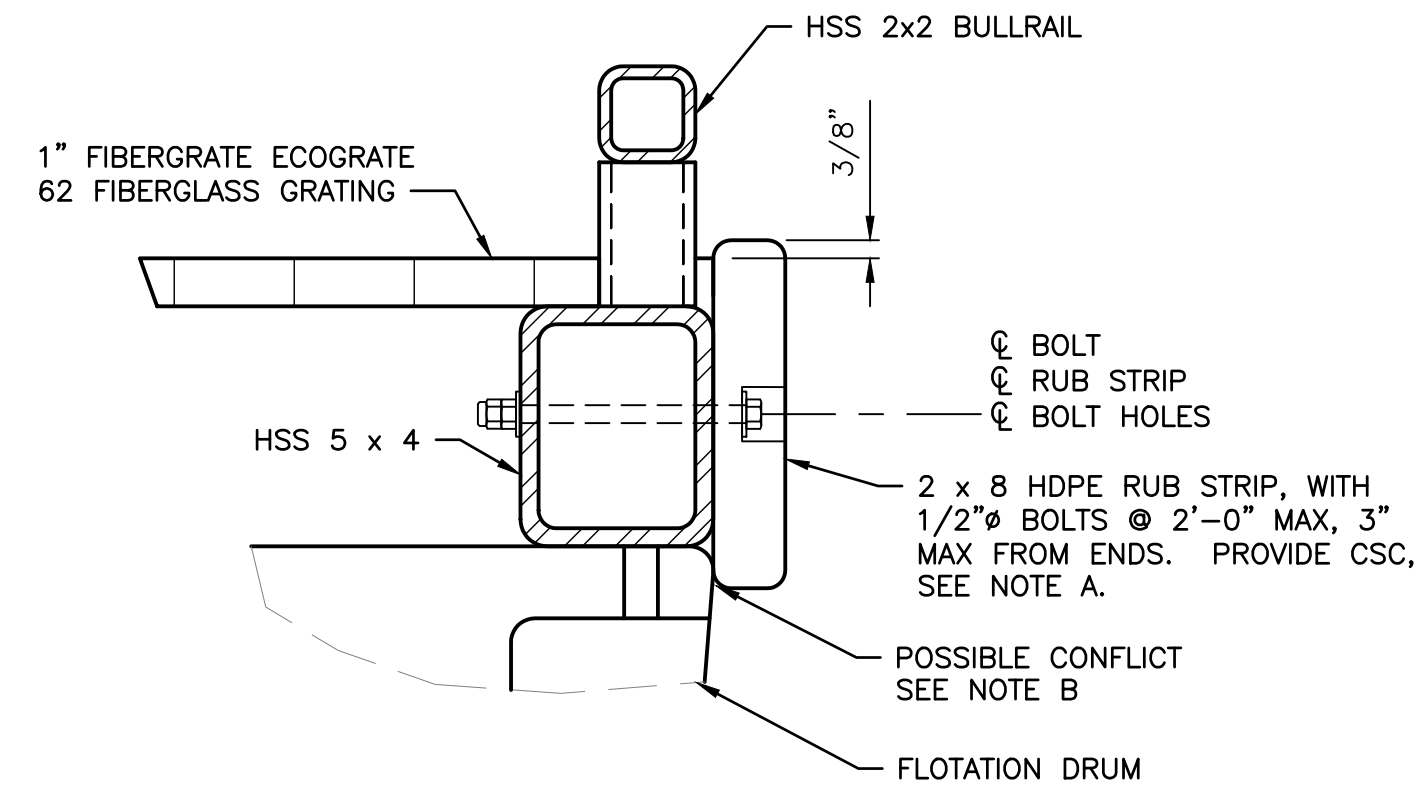
LEGEND:
 1" Ø DRAIN HOLE, SEE NOTE 6 ON SHEET 3

WASHINGTON DEPARTMENT OF FISH & WILDLIFE

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MATTOON LAKE ACCESS
SITE REDEVELOPMENT
 6' X 20' FLOAT SECTIONS AND DETAILS

PROJECT NO. KS:A278:2024-1	
SHEET 8	OF 15

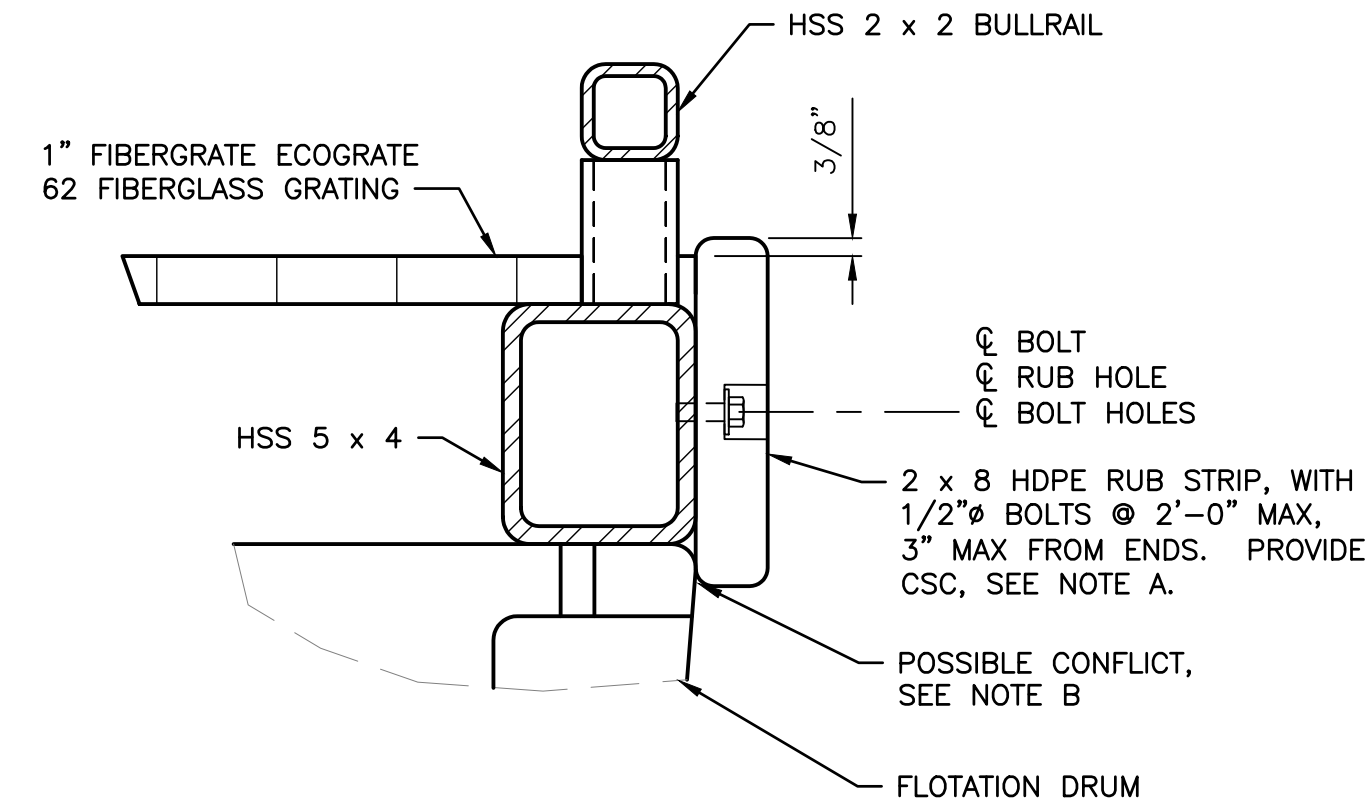


TYPICAL RUB STRIP

SCALE: 3" = 1'-0"

NOTES:

- A. INSTALL BOLTS IN 5/8" HOLES IN HSS AND RUB STRIP. COUNTER SINK RUB STRIP TO PROVIDE A MINIMUM 3/8" WEARING SURFACE. PROVIDE BOLTS W/ DOUBLE NUT & WASHERS.
- B. IF FLOAT DRUM PROTRUDES BEYOND HSS DUE TO FABRICATION TOLERANCES, NOTCH RUB STRIP TO AVOID INTERFERENCE.
- C. AT FLOAT END, PROVIDE RUB STRIP INSTEAD OF HINGE ASSEMBLY.

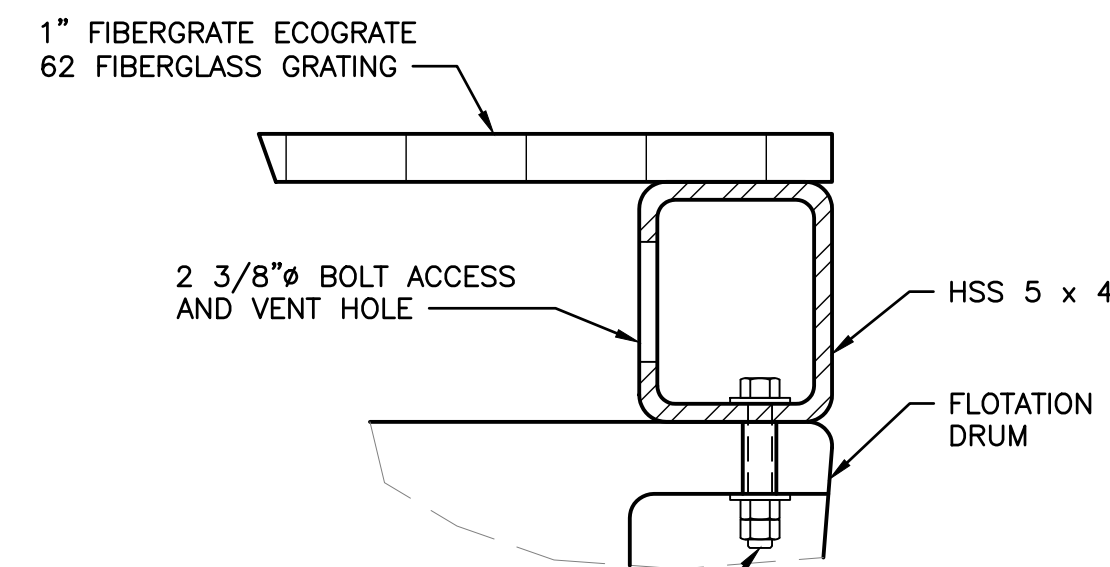


RUB STRIP WITHIN 5' OF INTERIOR PILE HOOP

SCALE: 3" = 1'-0"

NOTES:

- A. INSTALL BOLTS IN 5/8" HOLES IN RUB STRIP INTO DRILLED/TAPPED HOLES IN HSS. COUNTER SINK DEPTH AND BOLT LENGTH TO BE SELECTED TO AVOID PROTRUSION OF BOLT INTO INSIDE OF HSS AFTER TIGHTENING.
- B. IF FLOAT DRUM PROTRUDES BEYOND HSS 5x4 DUE TO FABRICATION TOLERANCES, NOTCH RUB STRIP TO AVOID INTERFERENCE.



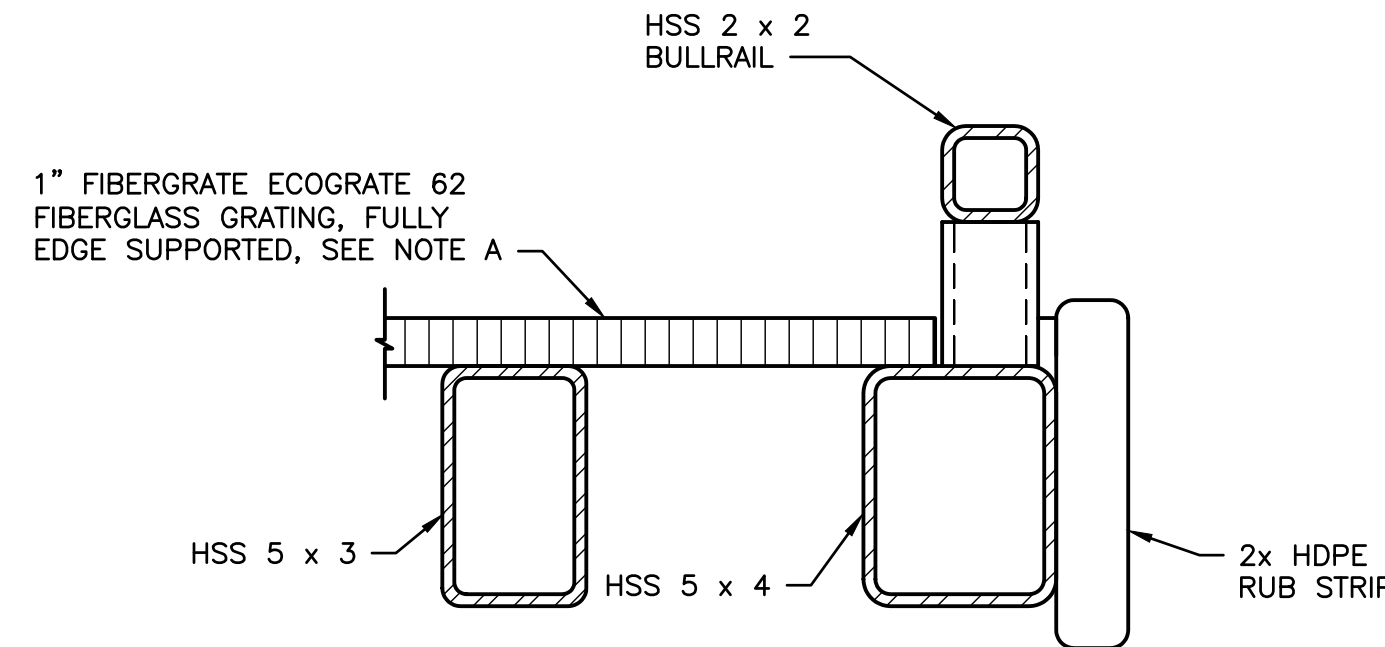
1/2" HEAVY HEX BOLT W/ WASHER EACH END, & DOUBLE NUT ON BOTTOM. PROVIDE 5/8" DRILLED HOLE PRIOR TO GALVANIZING, SEE NOTE A.

FLOAT DRUM

SCALE: 3" = 1'-0"

NOTES:

- A. DUE TO FABRICATION TOLERANCES OF FLOTATION DRUMS IT IS RECOMMENDED THAT HOLES ARE DRILLED BASED ON AS-BUILT FLOAT-DRUM DIMENSIONS.



GRATING ATTACHMENT

NOT SCALE

- NOTE:** WITHIN 5' OF INTERNAL PILE HOOP, SCREWS ATTACHING THE GRATING SHALL NOT EXTEND MORE THAN 1/8" INTO HSS 5x4 EDGE BEAM AFTER TIGHTENING TO AVOID INTERFERENCE WITH PILE GATE. FOR THE REMAINDER OF GRATING ATTACHMENT LOCATIONS, THE SCREWS ATTACHING THE GRATING MAY PROTRUDE FURTHER INTO HSS 5x4 EDGE BEAM. GRATING IS TO BE FULLY EDGE SUPPORTED WITH A MINIMUM OF 1" BEARING ON SUPPORTS

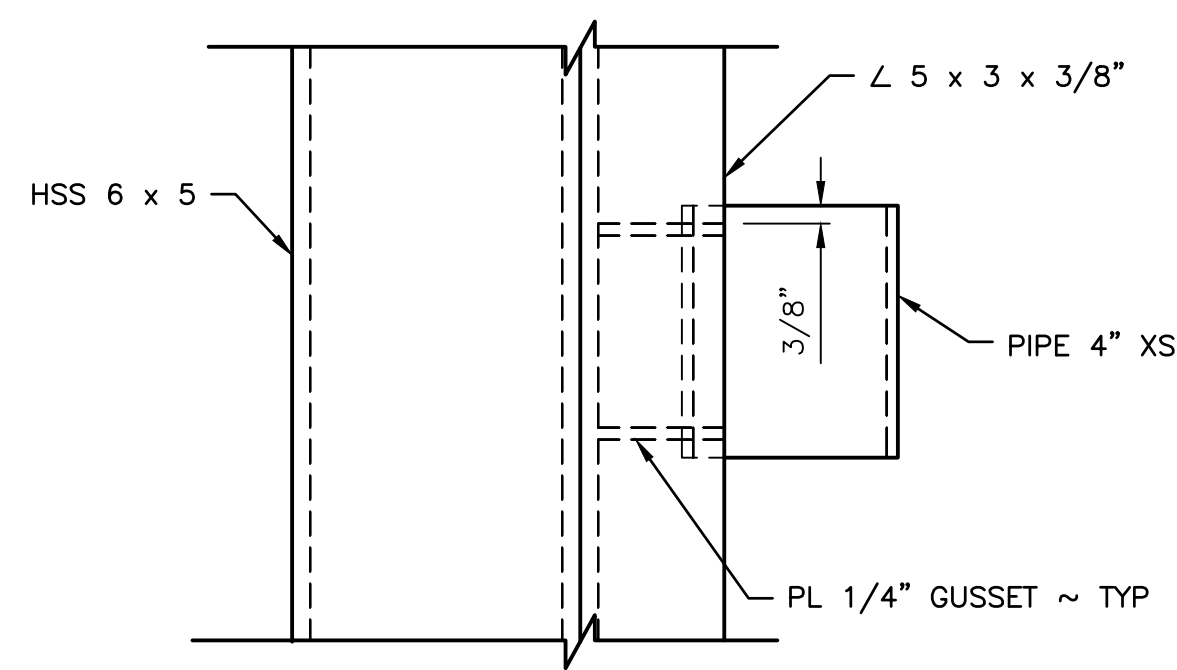
WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER	DATE:	DESIGNED BY J. HANSEN	
PROGRAM	DATE:	CHECKED BY S. GOODWIN	
		DRAWN BY S. SPARKS	
		DATE 1/24/2024	

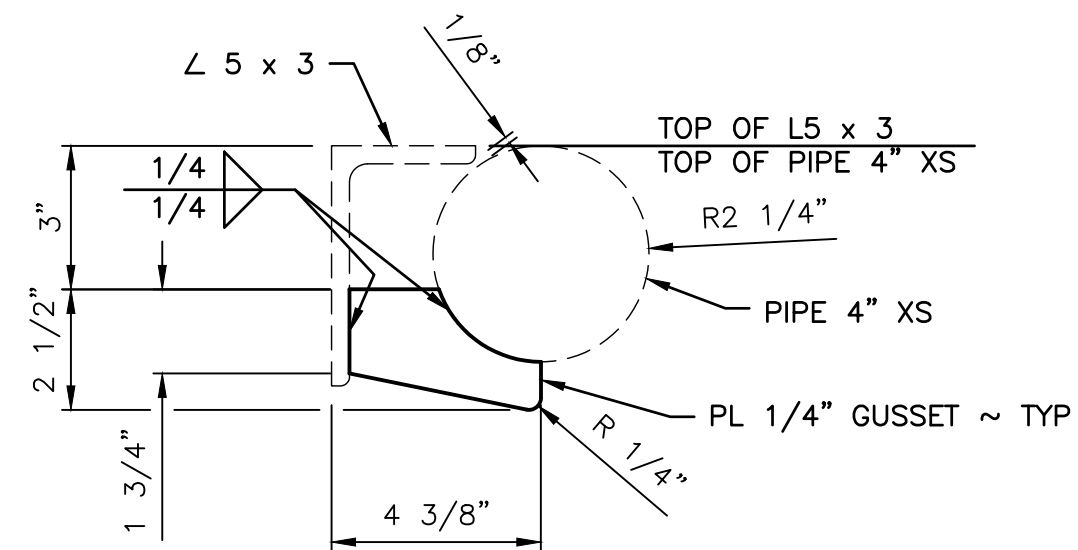
MATTOON LAKE ACCESS
SITE REDEVELOPMENT
6' X 20' MISCELLANEOUS DETAILS

PROJECT NO.
KS:A278:2024-1

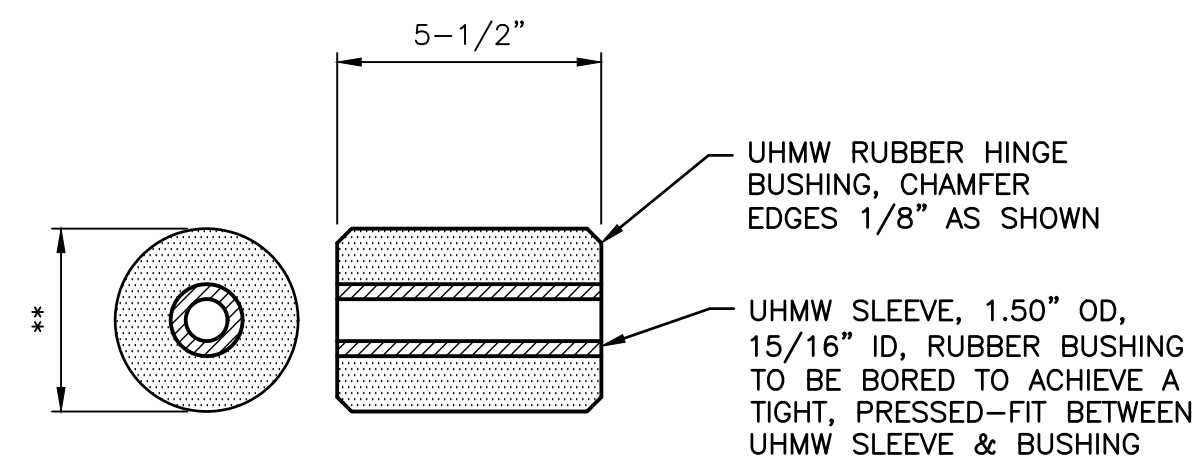
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HINGE SEGMENT
SCALE: 3" = 1'-0"



HINGE GUSSET PLATE
SCALE: 3" = 1'-0"



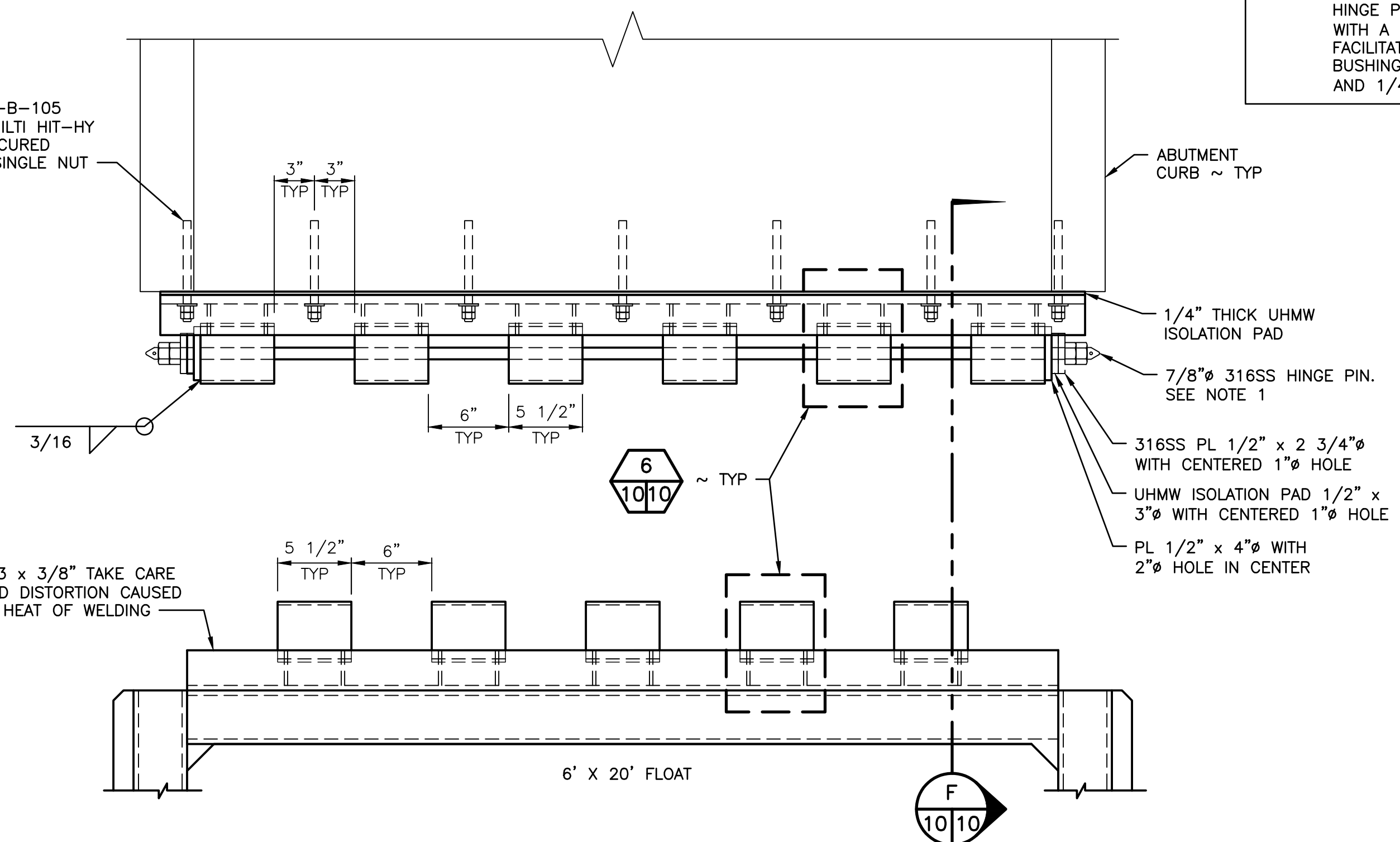
** SIZE FOR SNUG FIT

HINGE BUSHING
NOT TO SCALE

5/8"Ø x 8" HILTI HAS-B-105 HDG INSTALLED WITH HILTI HIT-HY 200 ADHESIVE AND SECURED WITH A WASHER AND SINGLE NUT

L 5 x 3 x 3/8" TAKE CARE TO AVOID DISTORTION CAUSED BY THE HEAT OF WELDING

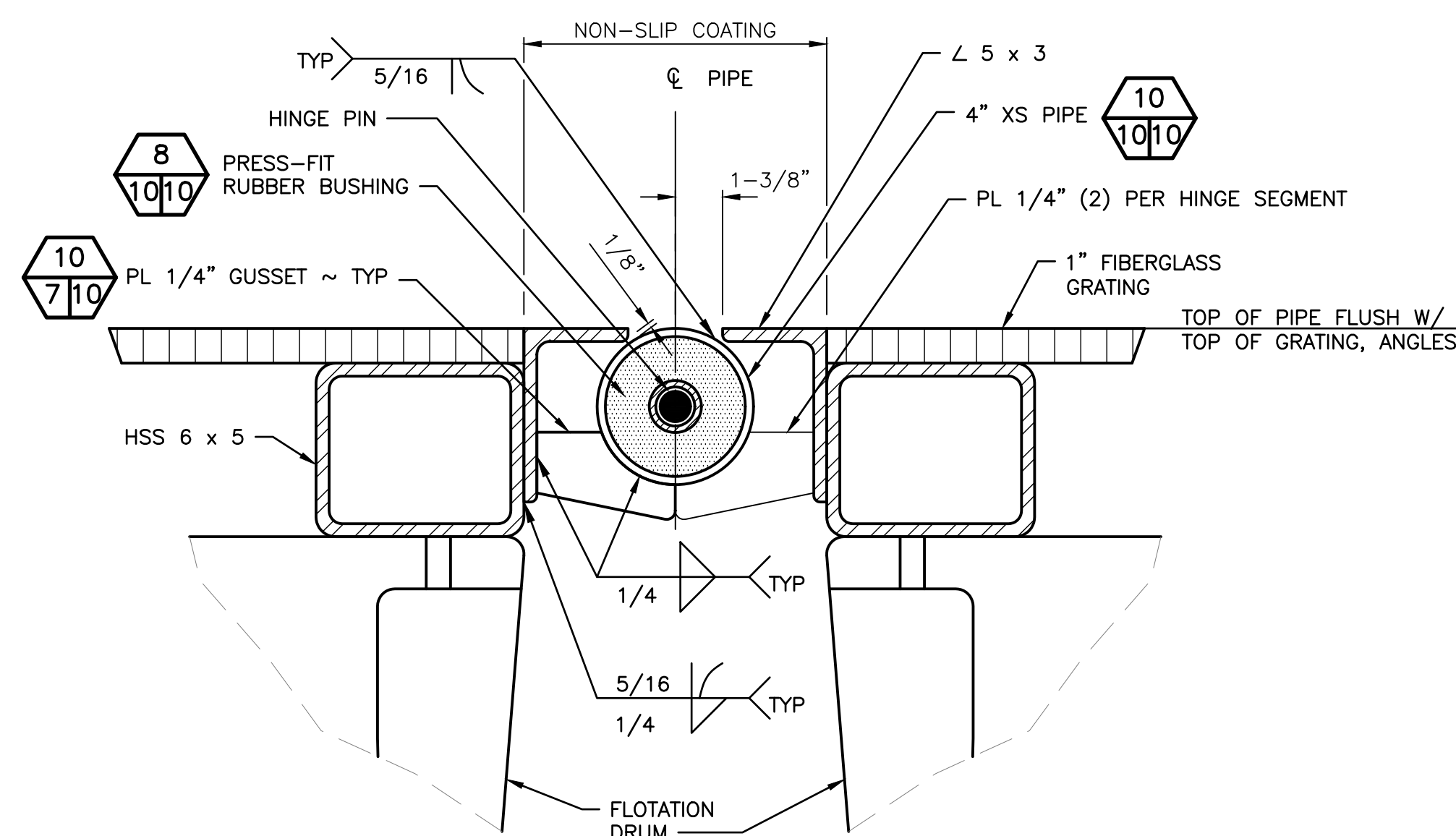
CONCRETE ABUTMENT



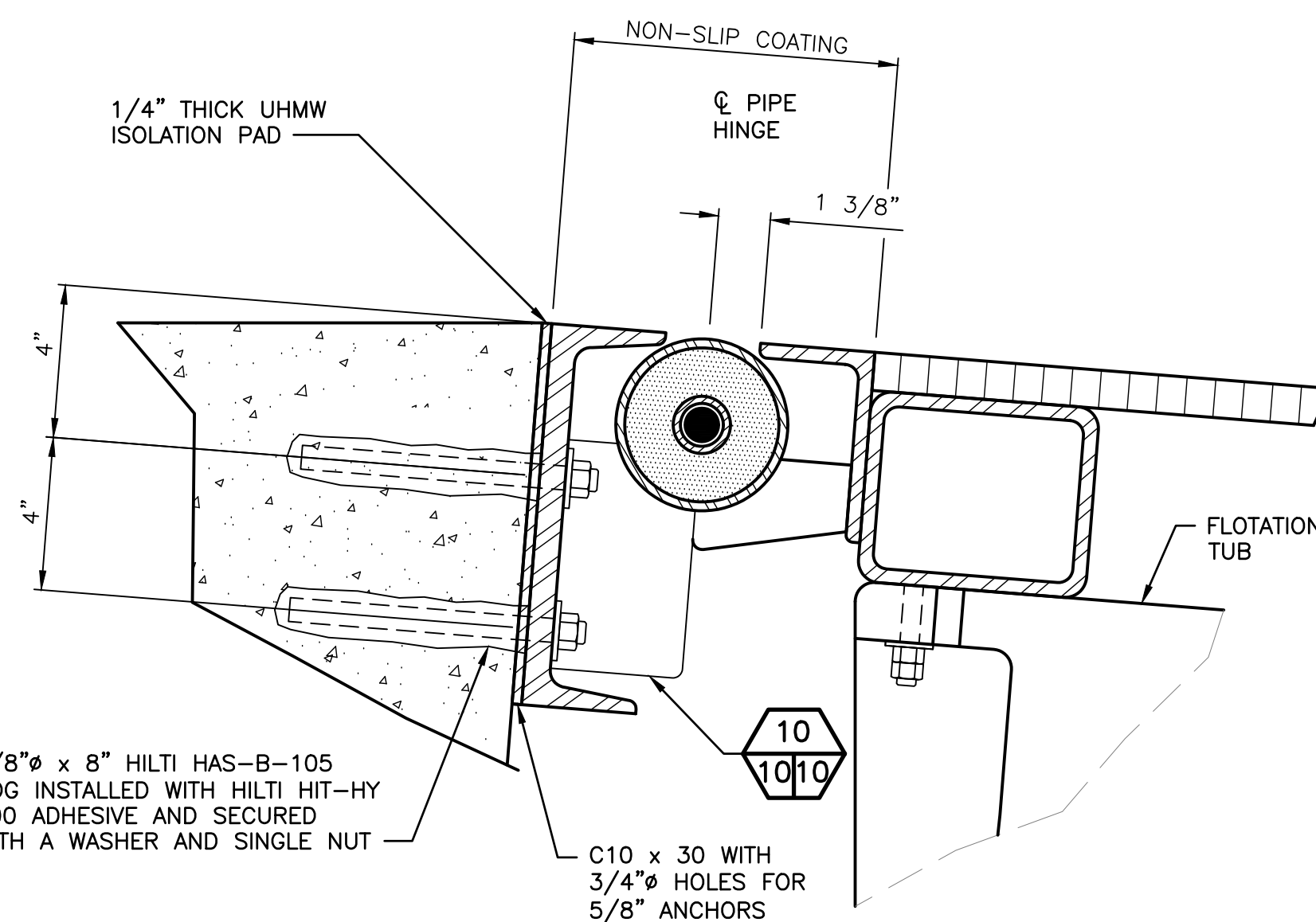
PLAN - ABUTMENT HINGE
SCALE: 1 1/2" = 1'-0"

NOTE: HINGE PIN TO BE SECURED WITH A DOUBLE-JAM NUT (DO NOT OVER-TIGHTEN, PREVENT GALLING), AND SHALL BE FREE TO ROTATE AFTER INSTALLATION. THE END OF THE HINGE PIN IS TO HAVE A 30 DEGREE BEVEL, WITH A 1/4" DIAMETER ROUNDED END TO FACILITATE INSERTION INTO THE HINGE BUSHINGS. HINGE PIN IS TO HAVE A HOLE AND 1/4"Ø 316SS COTTER PIN EACH END

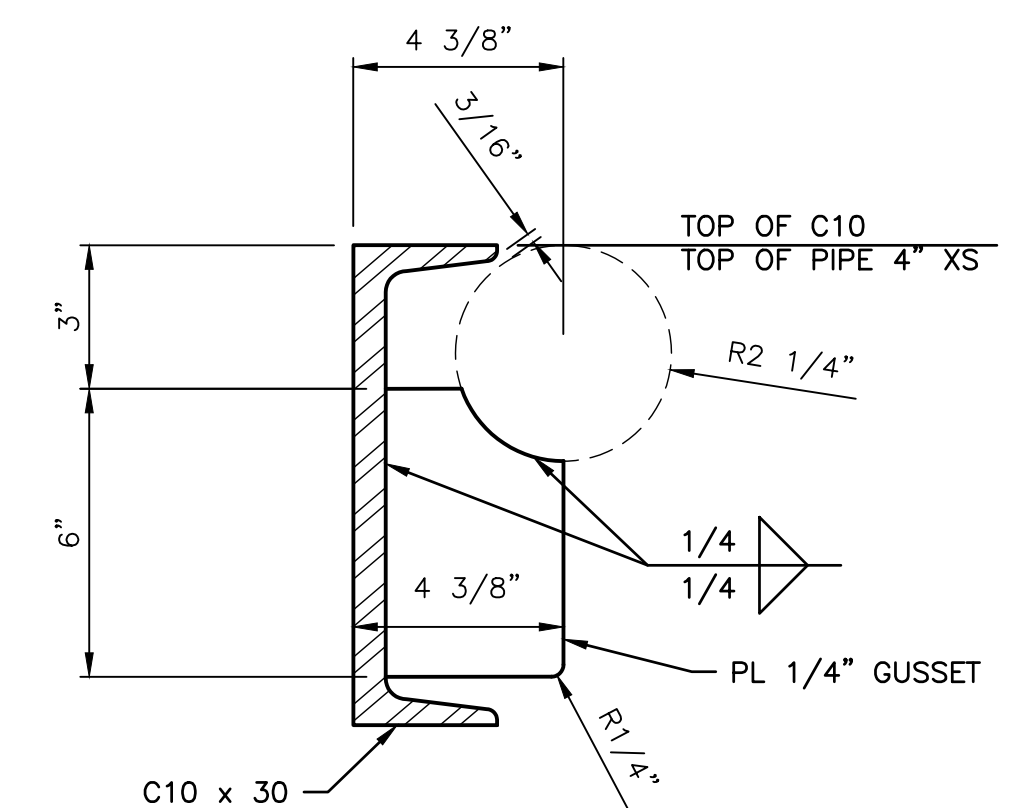
NOTE: SHOREWARD FLOAT: DO NOT INSTALL FIRST FLOAT TUB OR LEGS



FLOAT HINGE
SCALE: 3" = 1'-0"



CONCRETE ABUTMENT HINGE
SCALE: 3" = 1'-0"



ABUTMENT GUSSET PLATE
SCALE: 3" = 1'-0"

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MATTOON LAKE ACCESS
SITE REDEVELOPMENT
HINGE AND ABUTMENT DETAILS

PROJECT NO.
KS:A278:2024-1

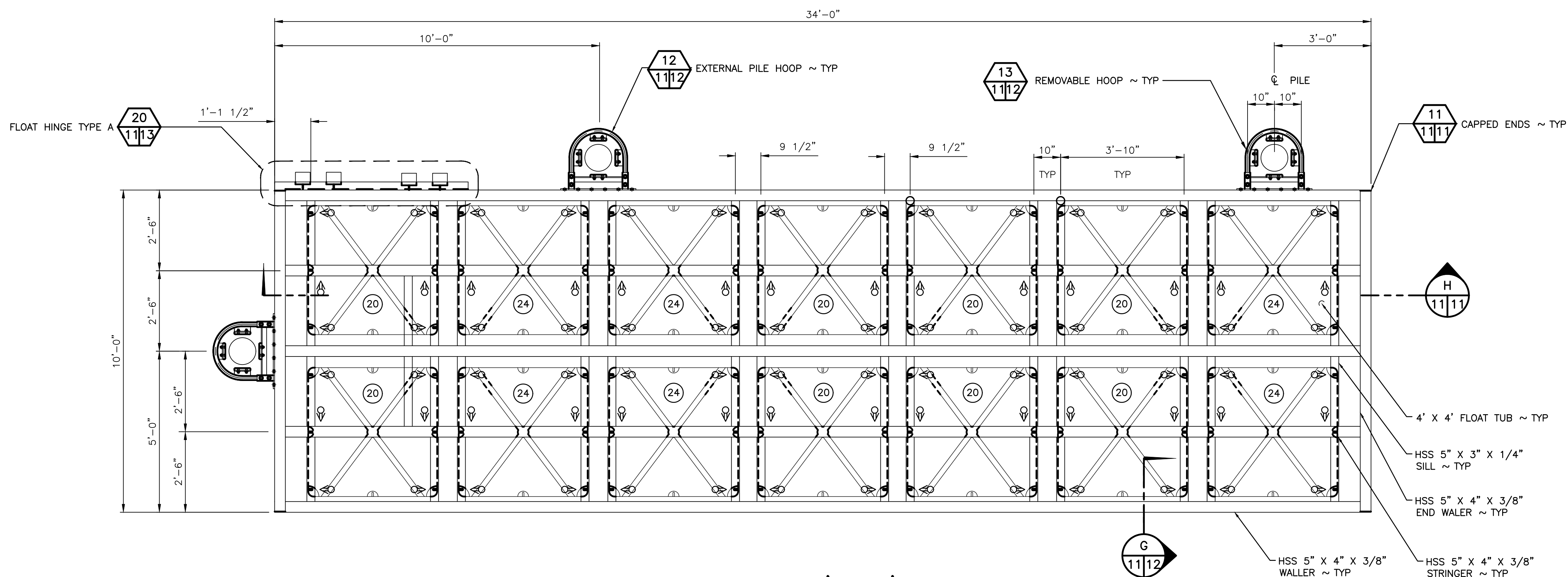
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NOTES

1. PROVIDE 3/8"Ø WEEP HOLES AT THE UNDERSIDE OF EACH END OF EACH HSS TUBE WITH ACCESS HOLES TO PREVENT MEMBERS FROM HOLDING WATER. SEE DETAIL 5/4/6
2. PROVIDE 1"Ø VENT HOLES IN SIDES OF THE HSS MEMBERS AT ALL WELDED INTERSECTIONS TO FACILITATE COMPLETE DRAINING DURING HOT-DIP GALVANIZING. SEE DETAIL 2/4/4
3. 10' X 34' TYPE 1 FLOAT:
SELF WEIGHT = 8514 LBS
NET OPEN AREA = 17.1%
FLOTATION FOOTPRINT = 64.0%

LEGEND

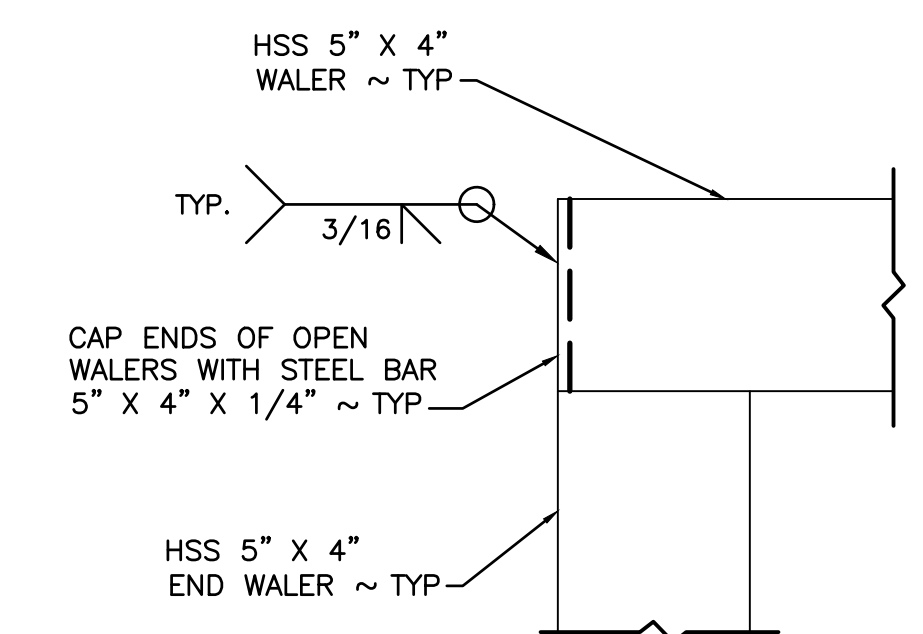
2-3/8"Ø DRILLED (NOT FLAME CUT) BOLT ACCESS OR VENT HOLE CENTERED VERTICALLY IN HSS TUBE. PROVIDE MINIMUM 1" AWAY FROM WELDED CONNECTIONS. SMOOTH EDGES PRIOR TO GALVANIZING. SEE DETAILS 6/4/6 & 7/4/6



10' X 34' FLOAT PLAN

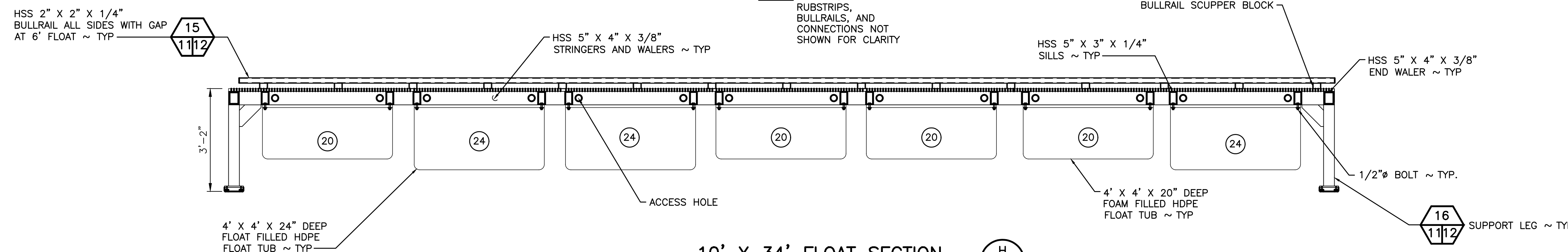
SCALE: 1/2" = 1'-0"

NOTE: GRATING, RUBSTRIPS, BULLRAILS, AND CONNECTIONS NOT SHOWN FOR CLARITY



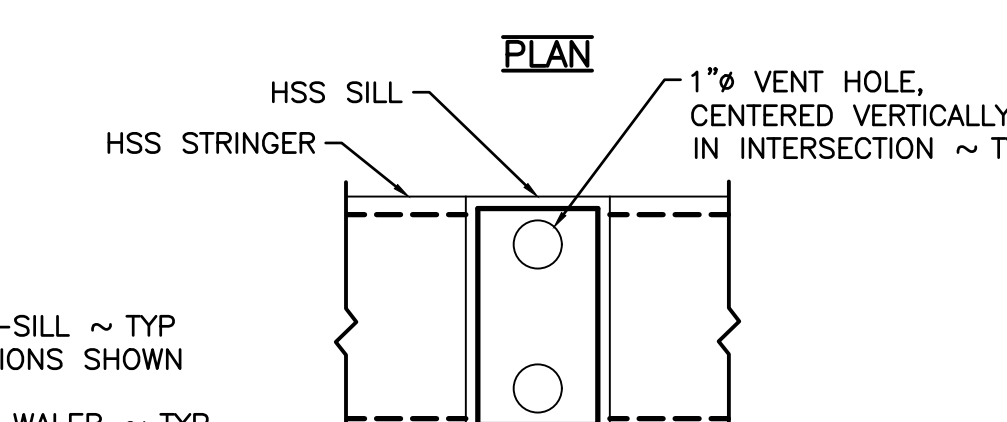
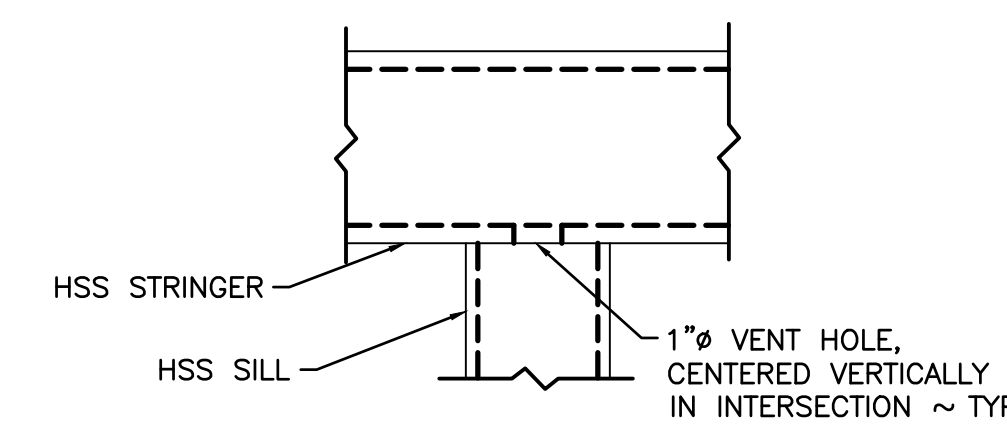
CAPPED ENDS

SCALE: 3" = 1'-0"



10' X 34' FLOAT SECTION

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



STRINGER-SILL INTERSECTIONS SHOWN

STRINGER-WALER INTERSECTIONS SIMILAR

ELEVATION

VENT HOLES

SCALE: 3" = 1'-0"

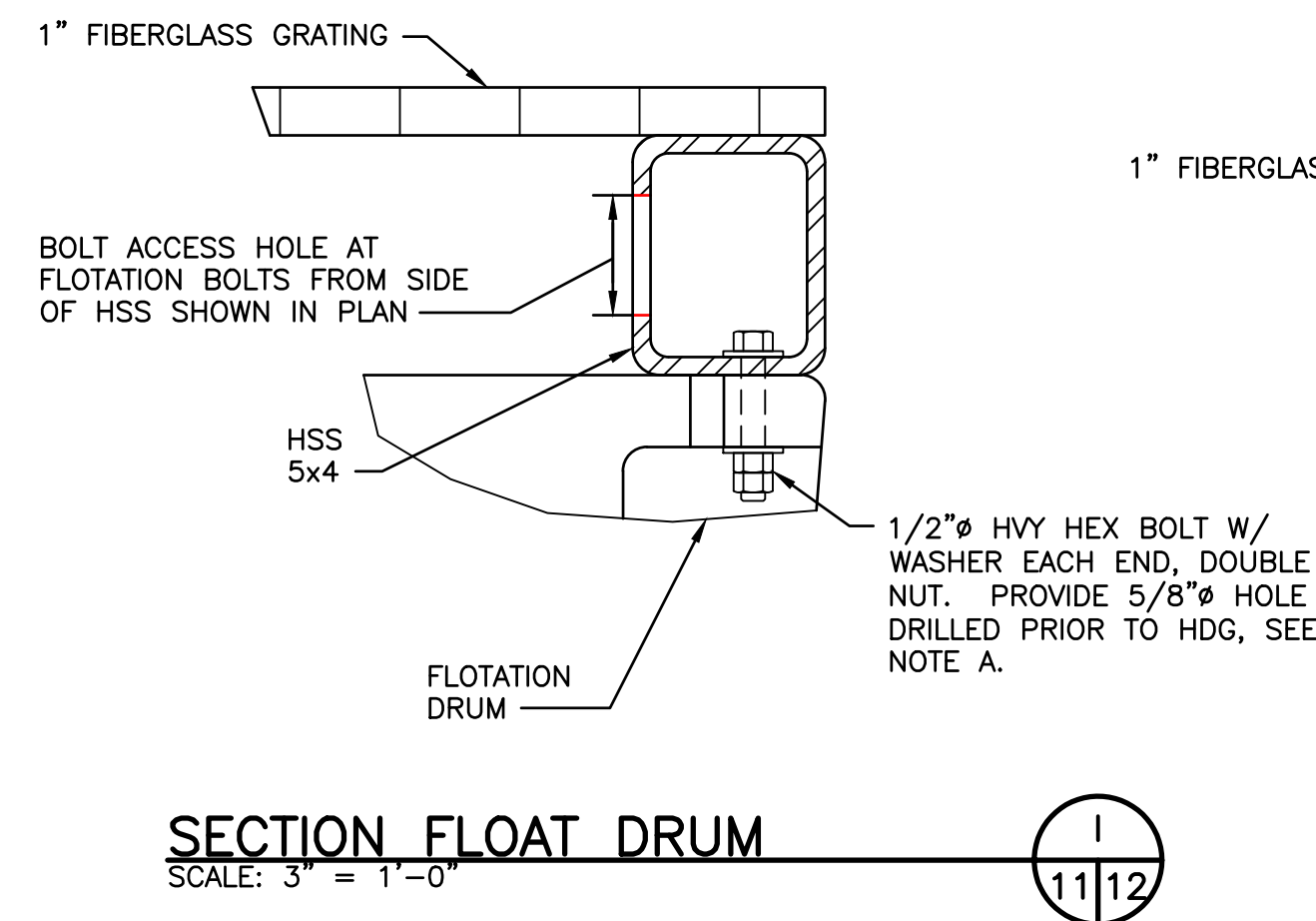
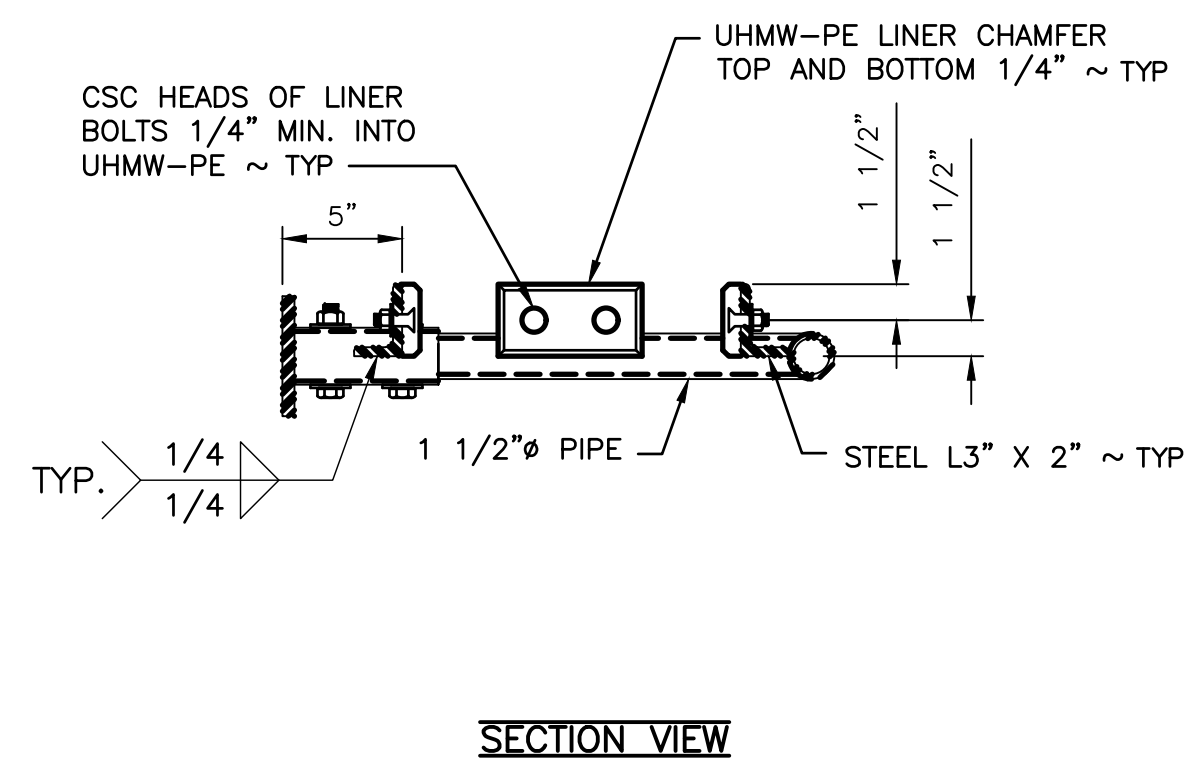
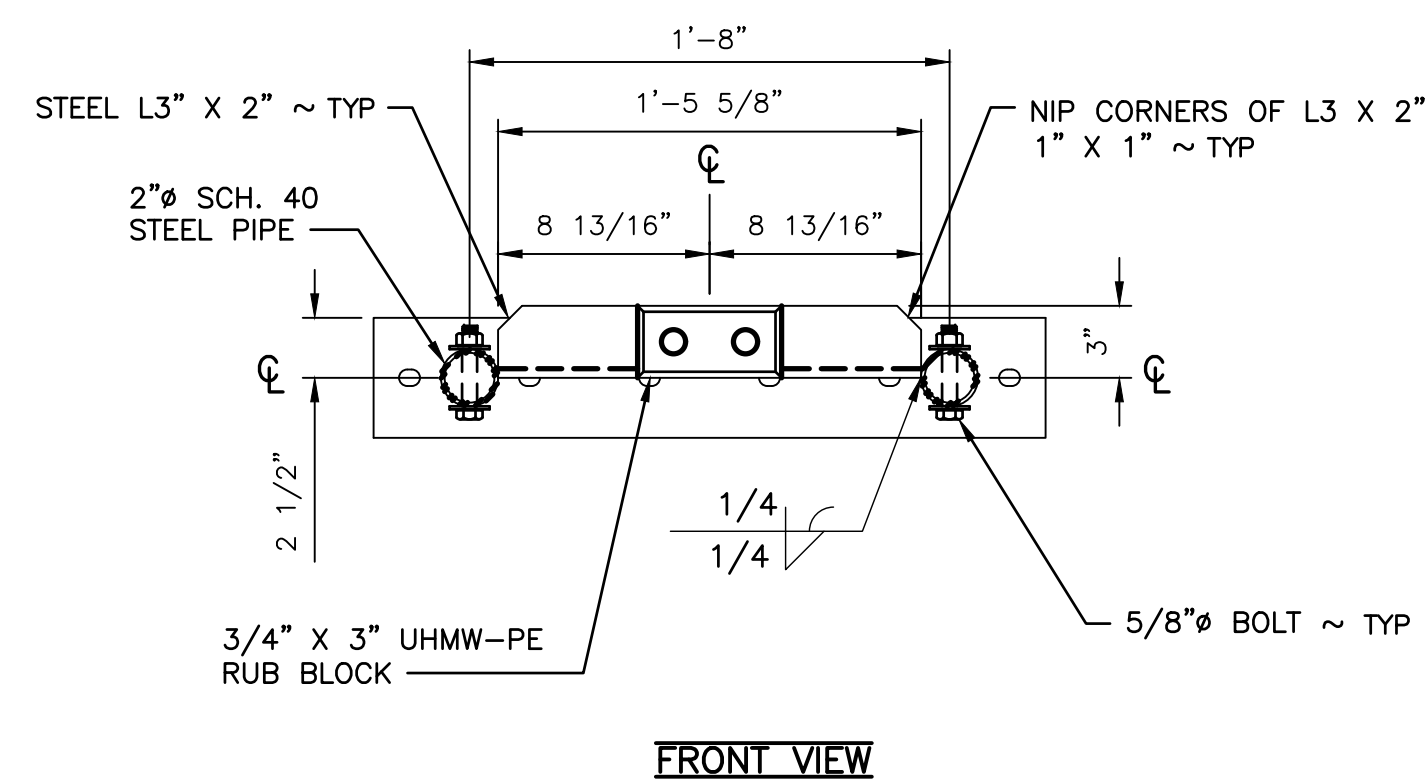
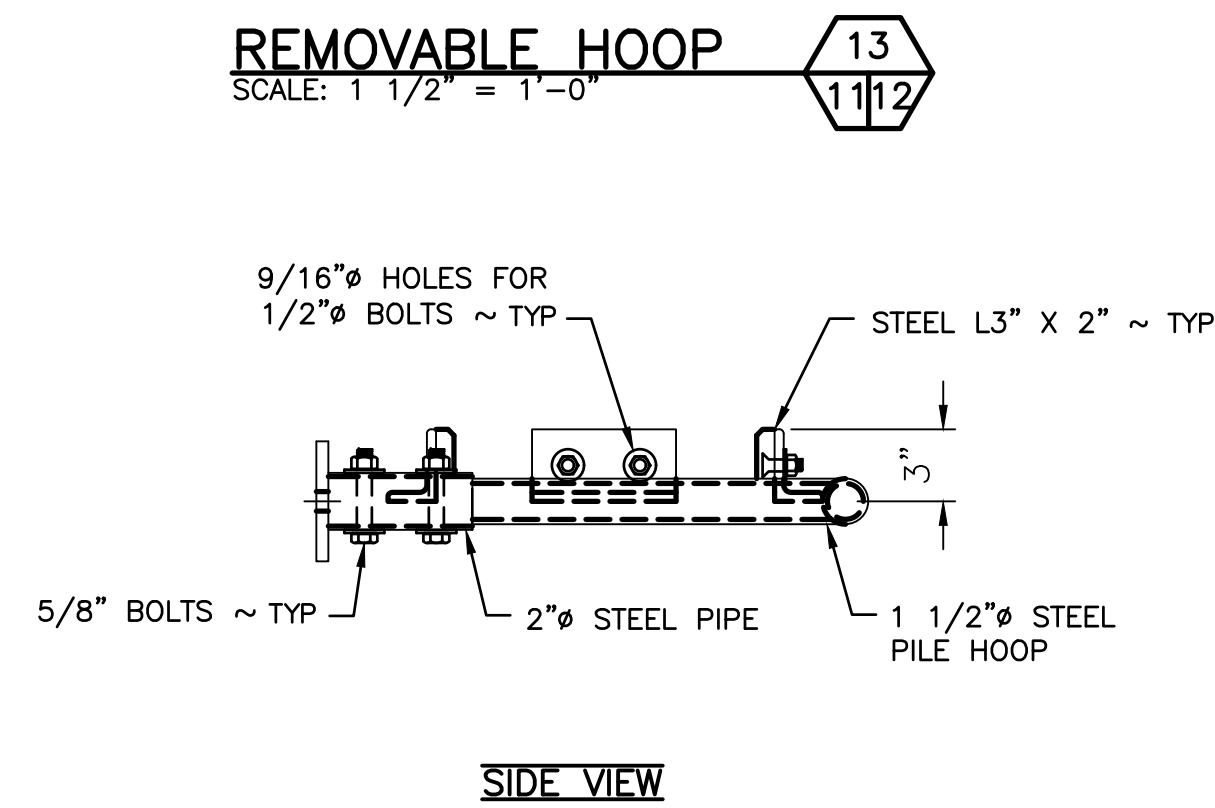
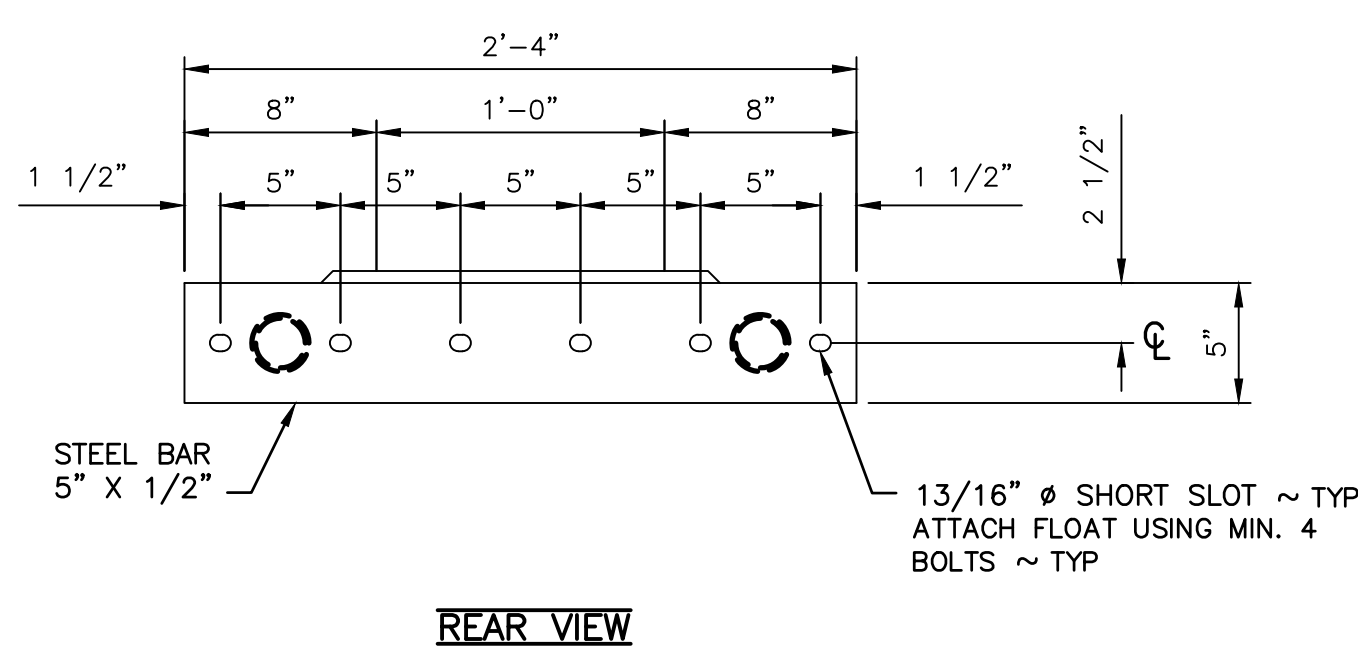
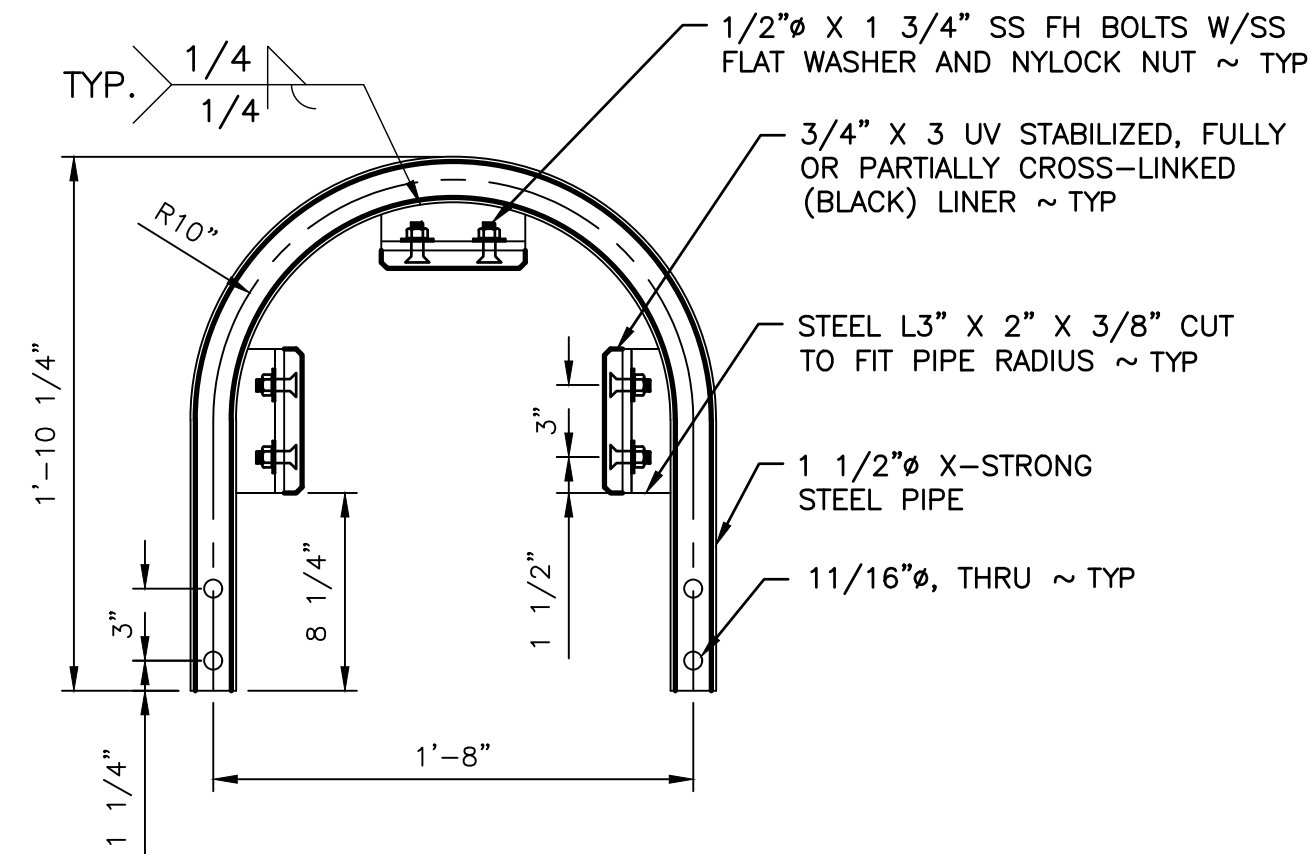
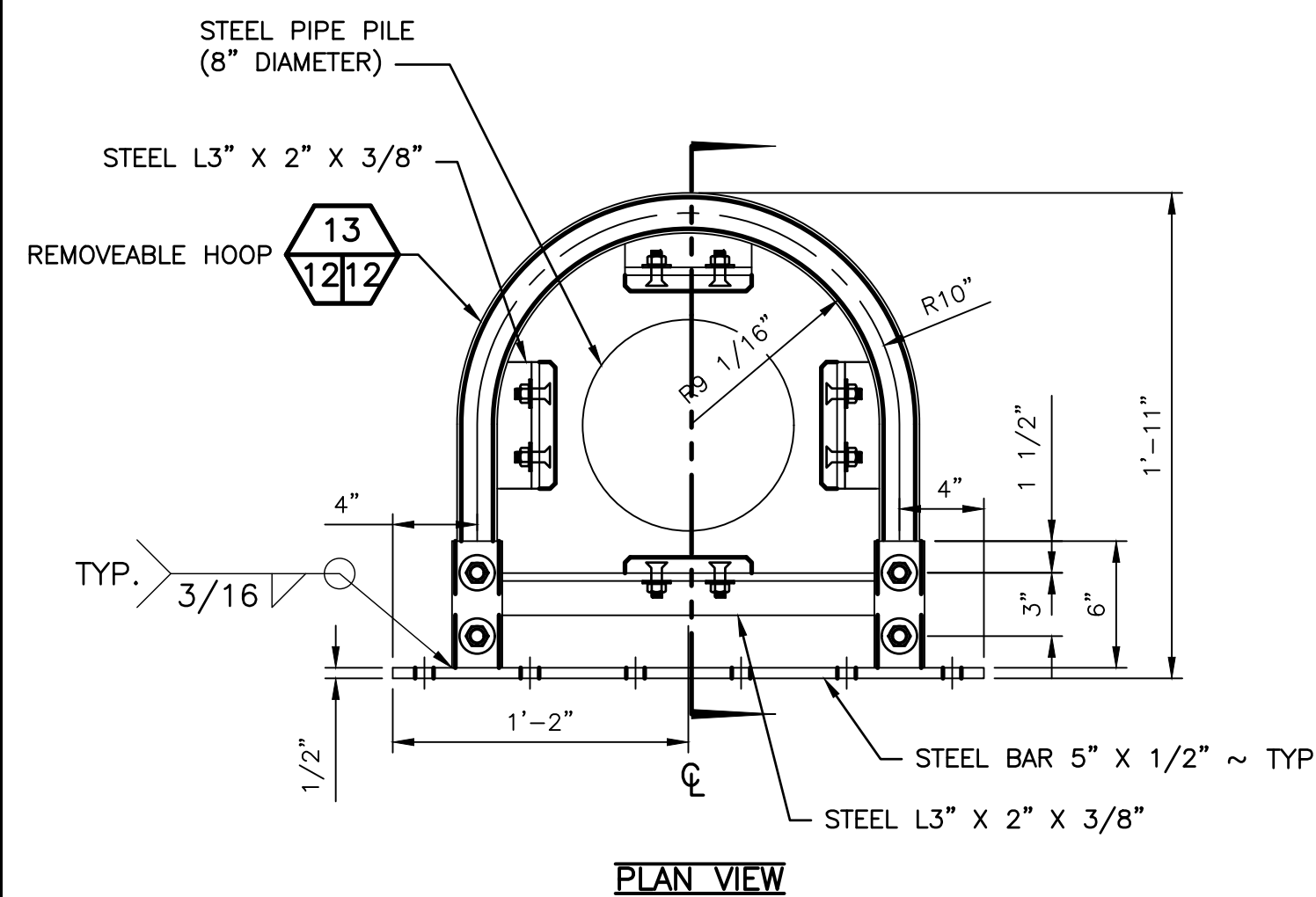
WASHINGTON DEPARTMENT OF
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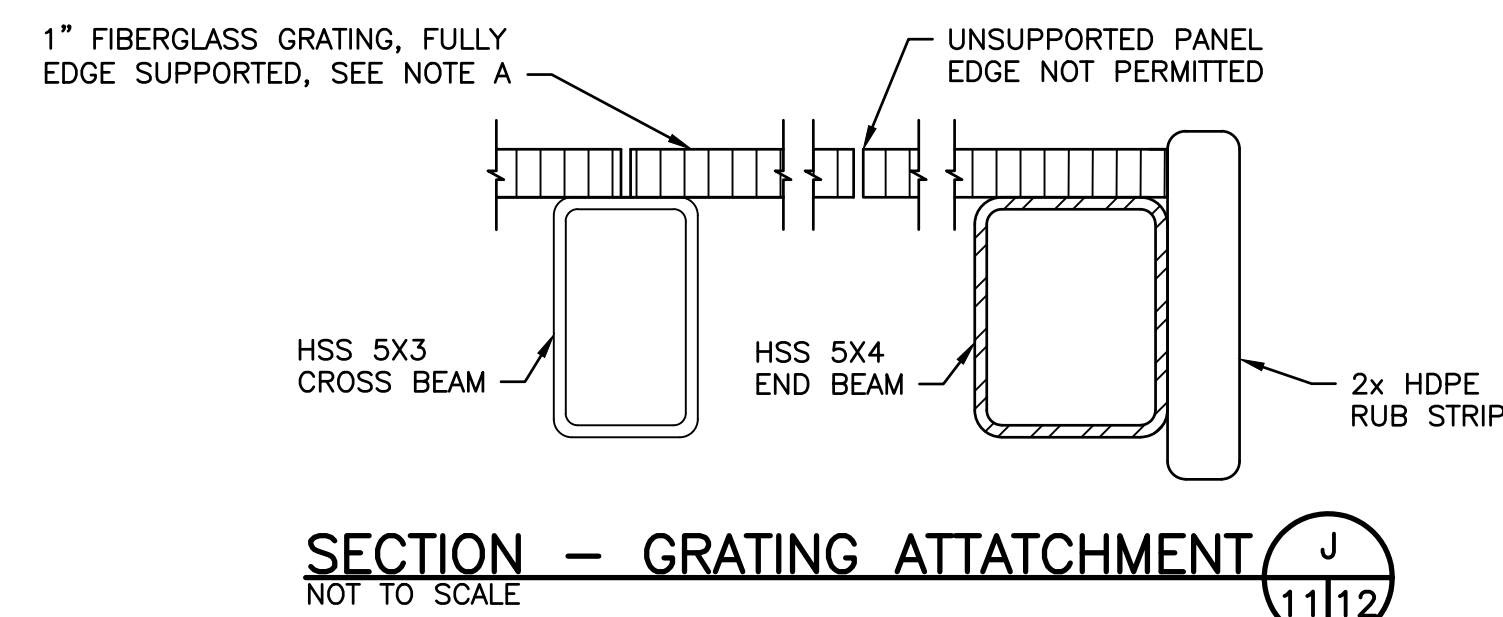
DESIGNED BY J. HANSEN
CHECKED BY S. GOODWIN
DRAWN BY S. SPARKS
DATE 1/24/2024

MATTOON LAKE ACCESS
SITE REDEVELOPMENT
10' X 34' FLOAT PLAN AND SECTION

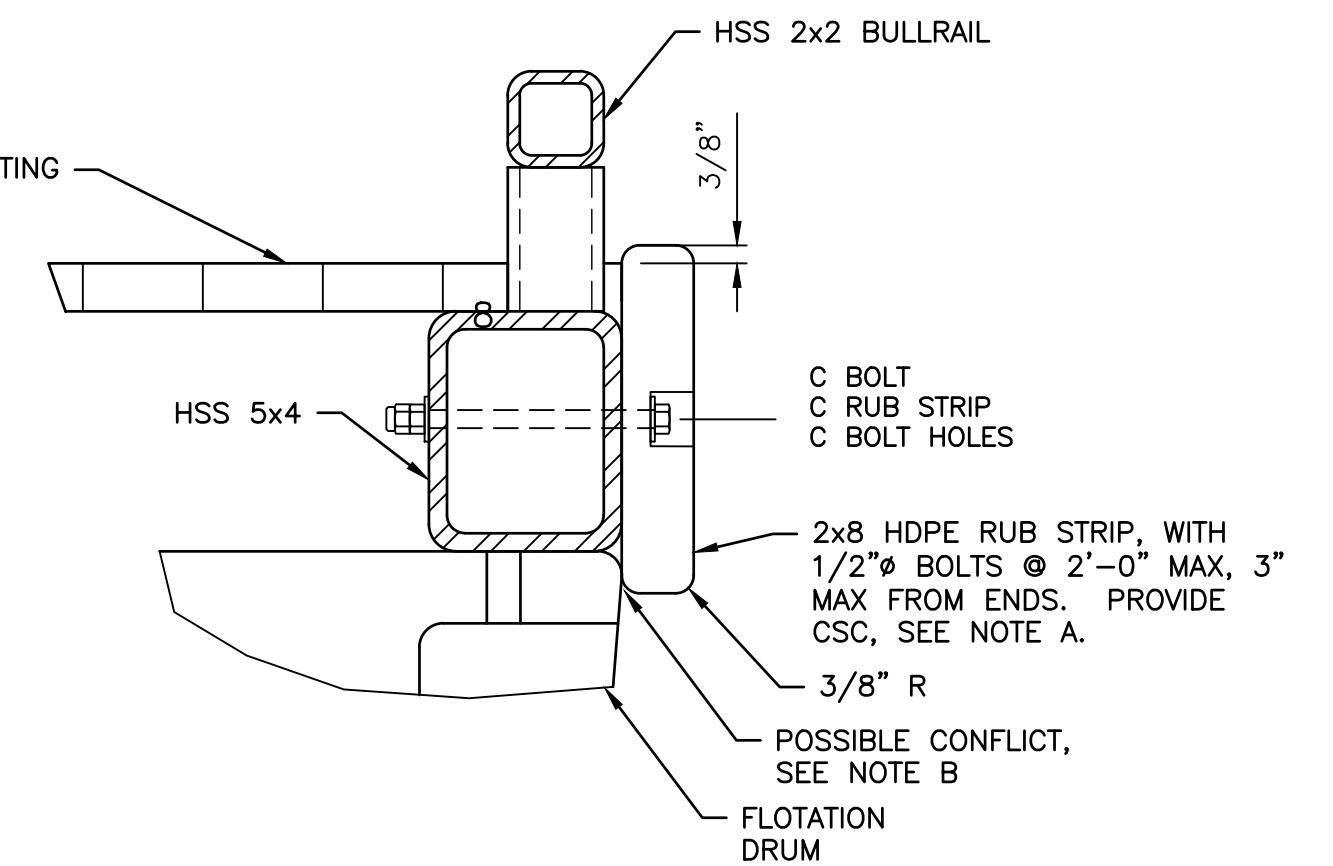
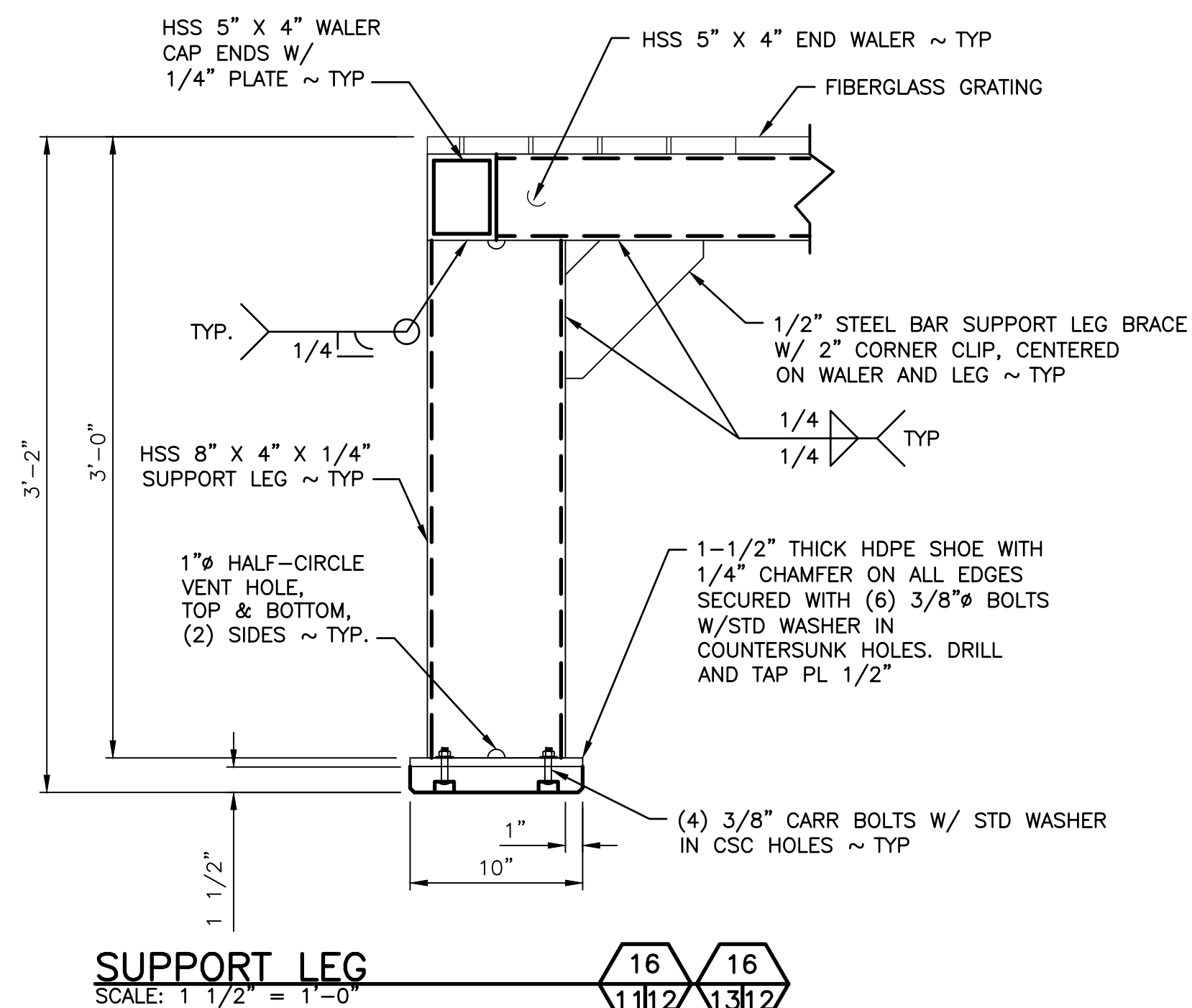
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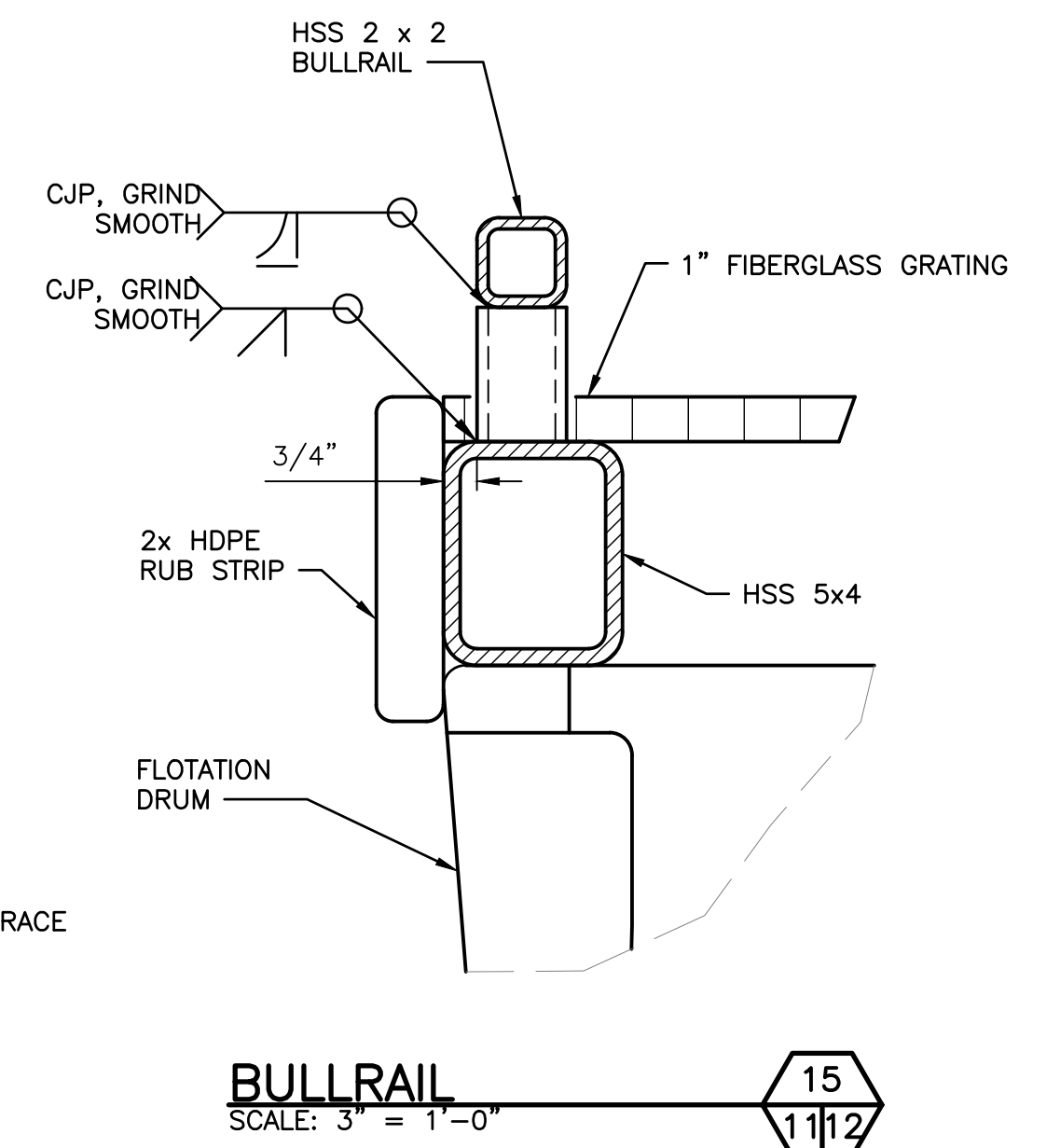
NOTES:
 A. DUE TO FABRICATION TOLERANCES OF FLOTATION DRUMS IT IS RECOMMENDED THAT HOLES ARE DRILLED BASED ON AS-BUILT FLOAT-DRUM DIMENSIONS.



NOTES:
 A. GRATING IS TO BE FULLY EDGE SUPPORTED WITH A MINIMUM OF 1" BEARING ON SUPPORTS



NOTES:
 A. INSTALL BOLTS IN 5/8" HOLES IN HSS AND RUB STRIP. COUNTER SINK RUB STRIP TO PROVIDE A MINIMUM 3/8" WEARING SURFACE. PROVIDE BOLTS W/ DBL NUT & WASHERS.
 B. IF FLOAT DRUM PROTRUDES BEYOND HSS DUE TO FABRICATION TOLERANCES, NOTCH RUB STRIP TO AVOID INTERFERENCE.
 C. AT FLOAT END, PROVIDE RUB STRIP INSTEAD OF HINGE ASSEMBLY.



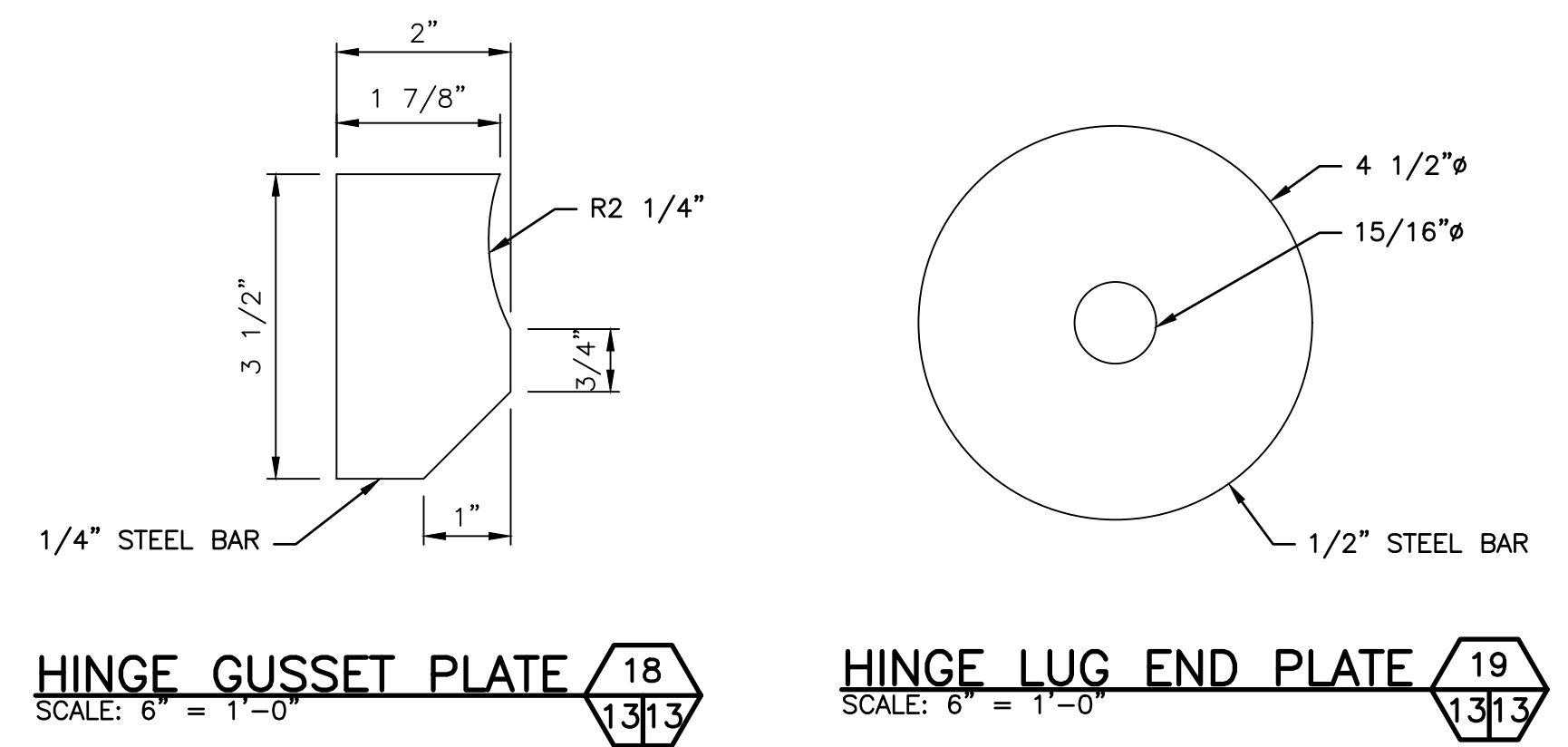
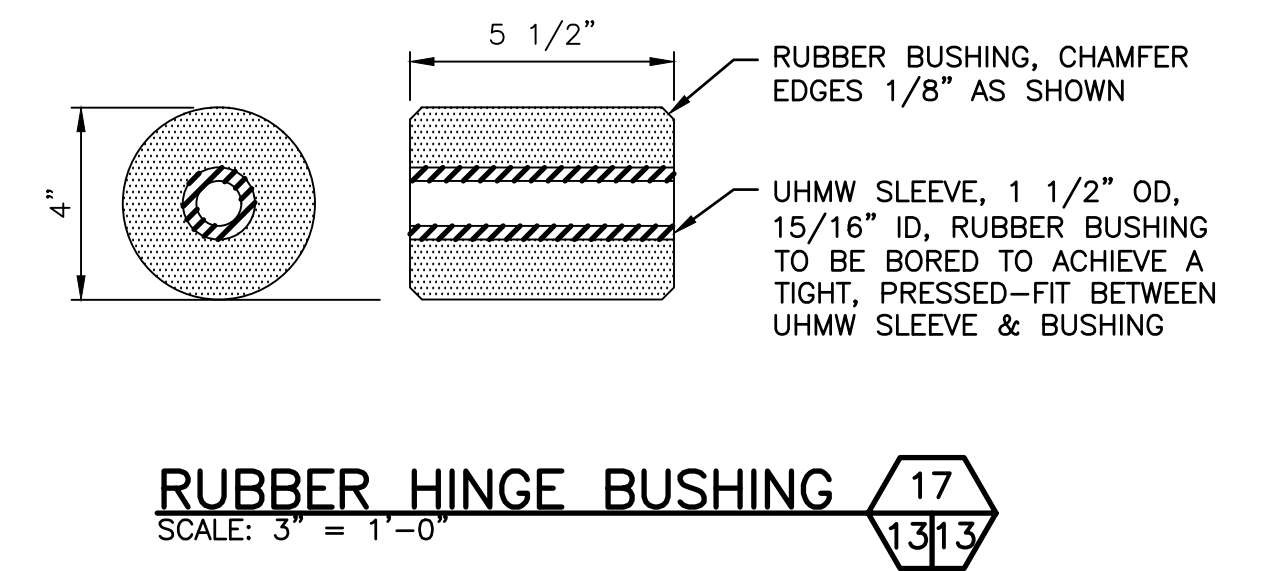
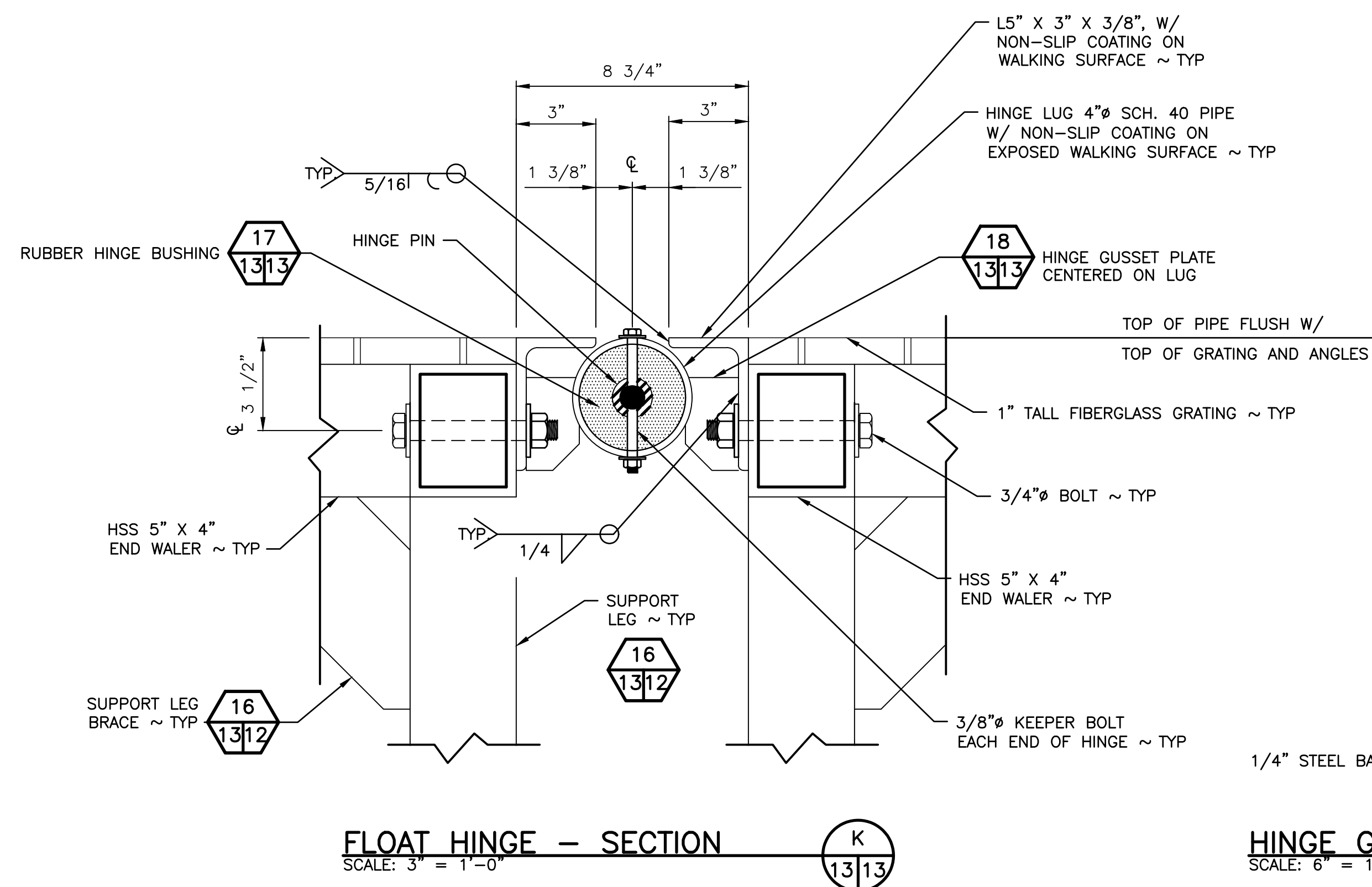
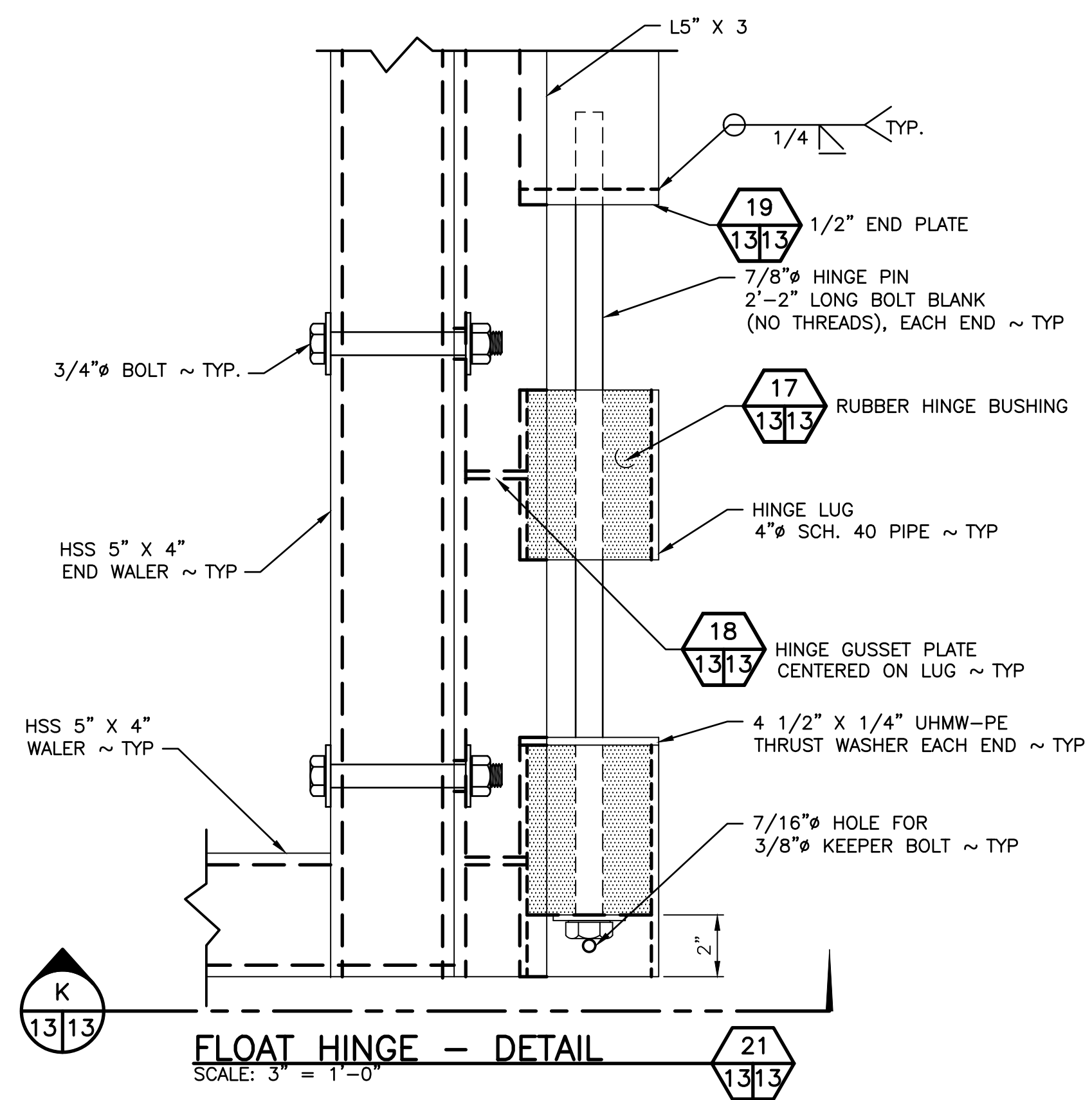
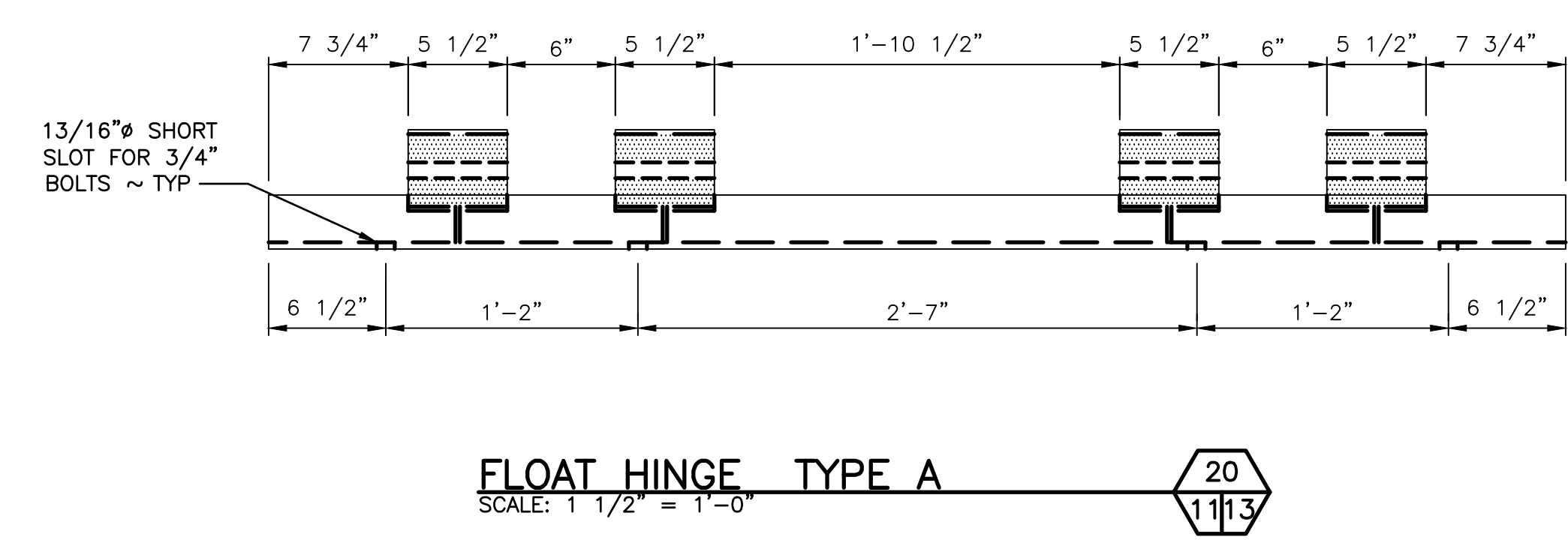
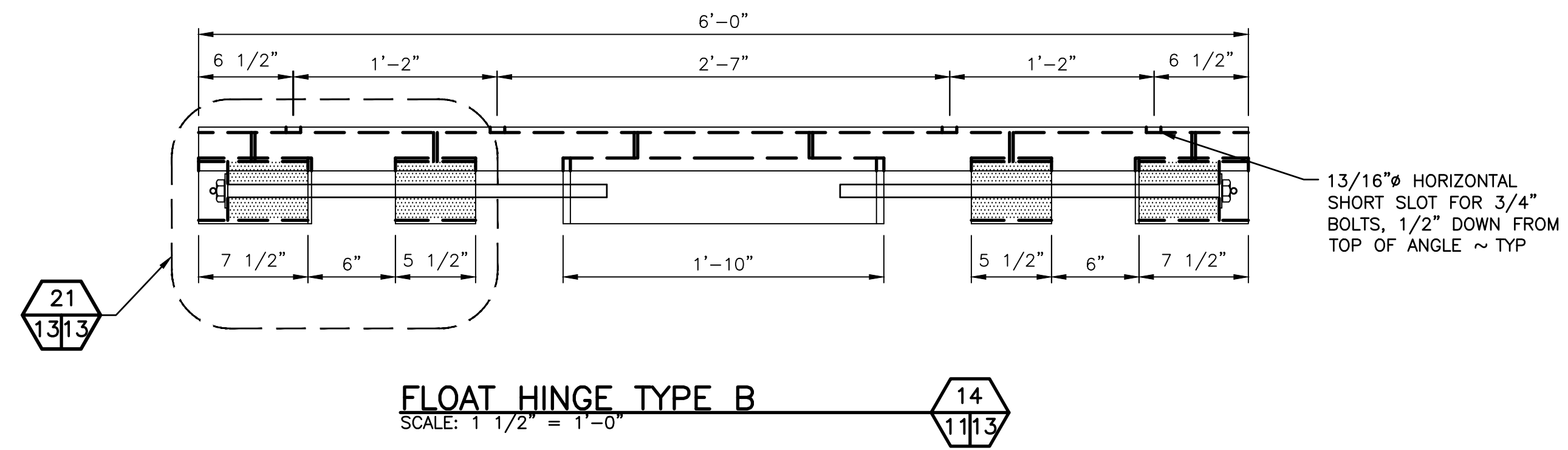
HOT DIP GALVANIZE ALL STEEL COMPONENTS AFTER FABRICATION

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MATTOON LAKE ACCESS
 SITE REDEVELOPMENT
 DETAILS 1

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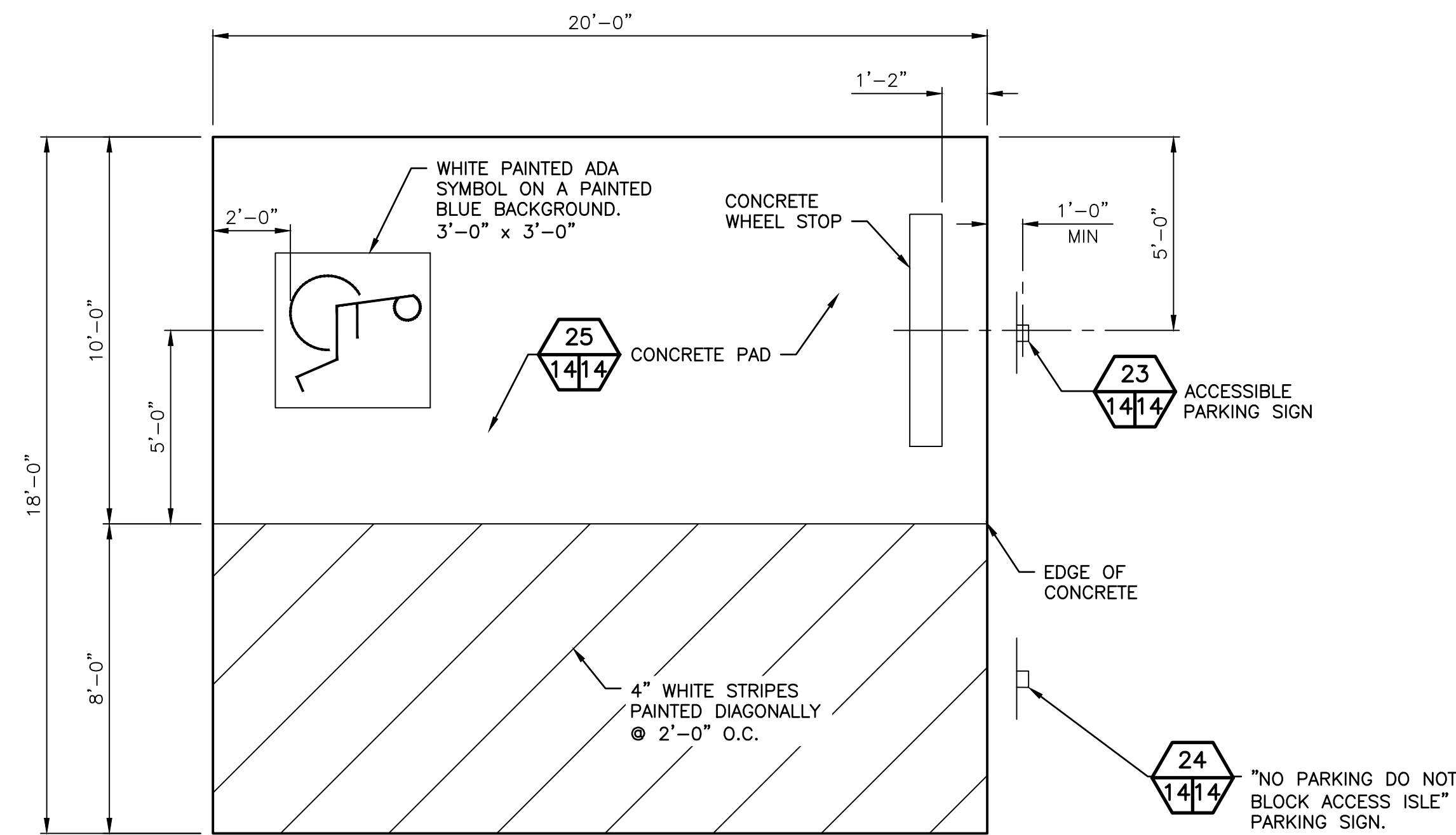
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MATTOON LAKE ACCESS
SITE REDEVELOPMENT
DETAILS 2

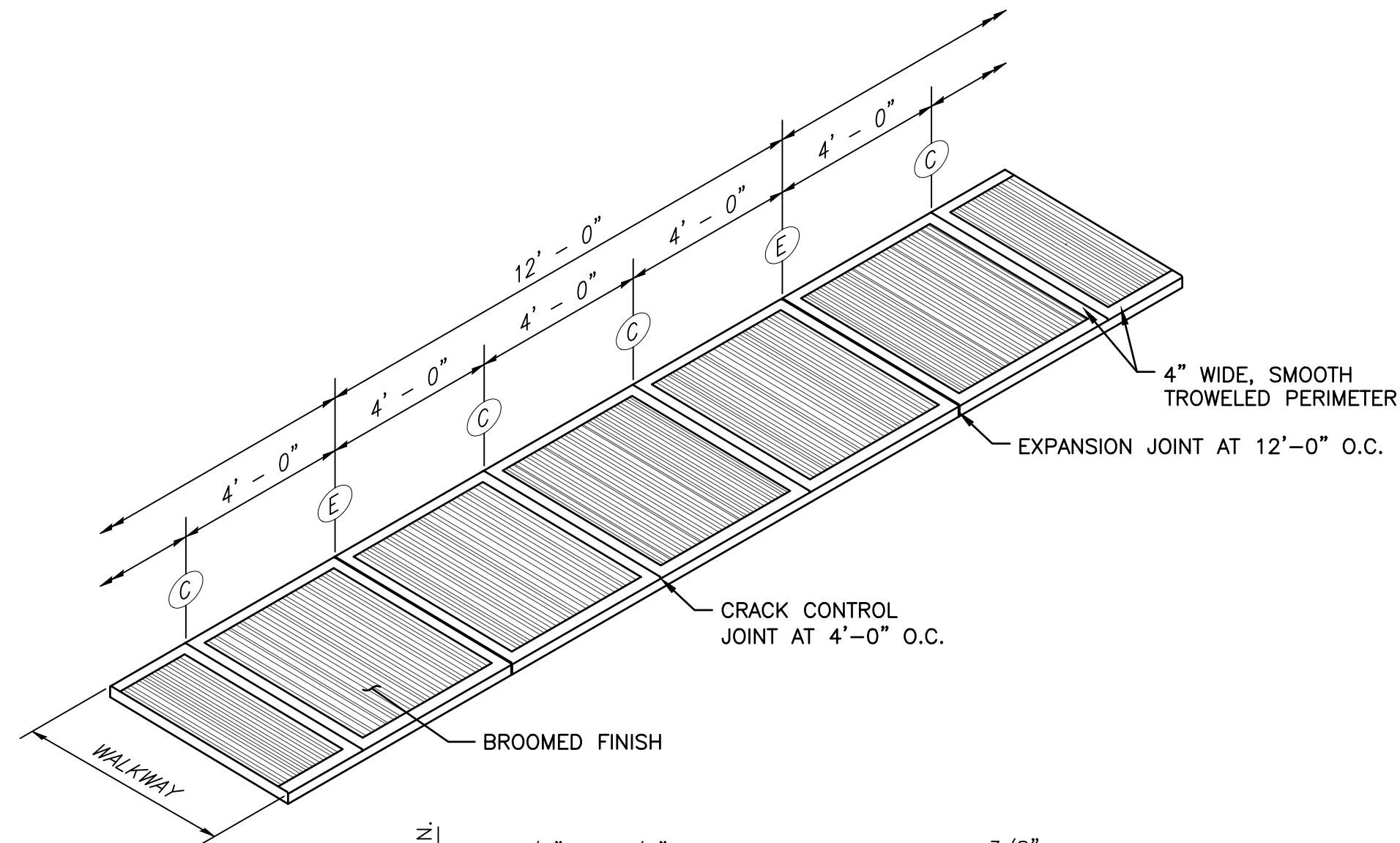
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WM:A701:2021-1

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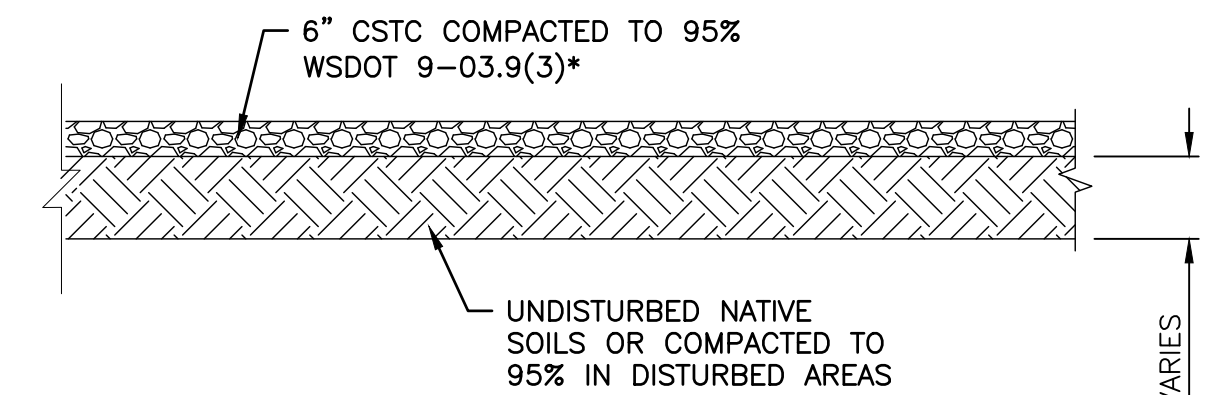


CONCRETE VAN ACCESSIBLE PARKING AREA
NOT TO SCALE

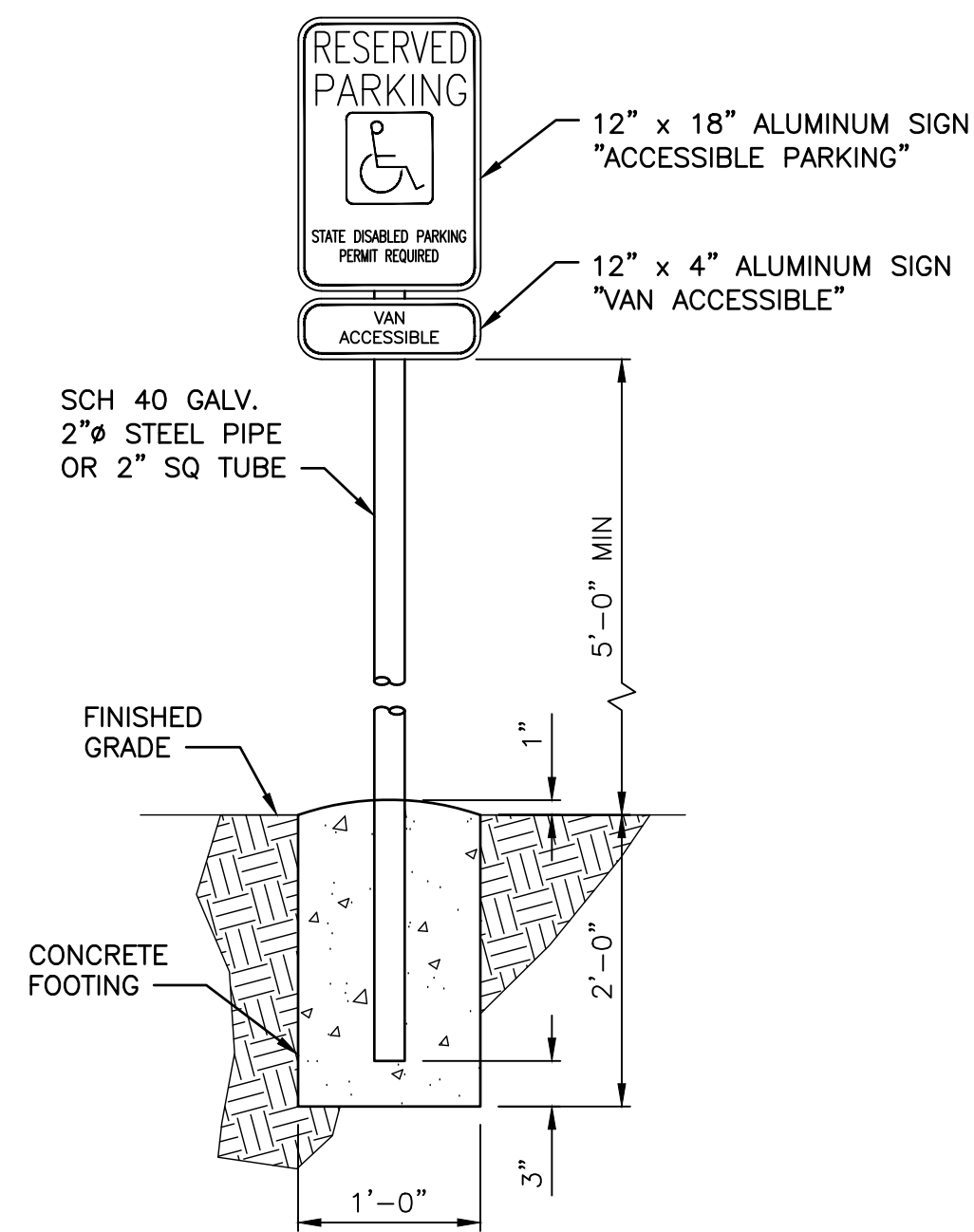
- NOTES:**
- 2% MAXIMUM SLOPE IN ALL DIRECTIONS
 - INSTALL 1' COMPACTED CSTC SHOULDERS
 - INSTALL 10' COMPACTED CSTC AT TRAFFIC END FOR TRANSITION TO EXISTING GRAVEL



TYPICAL CONCRETE WALKWAY DETAIL
NOT TO SCALE

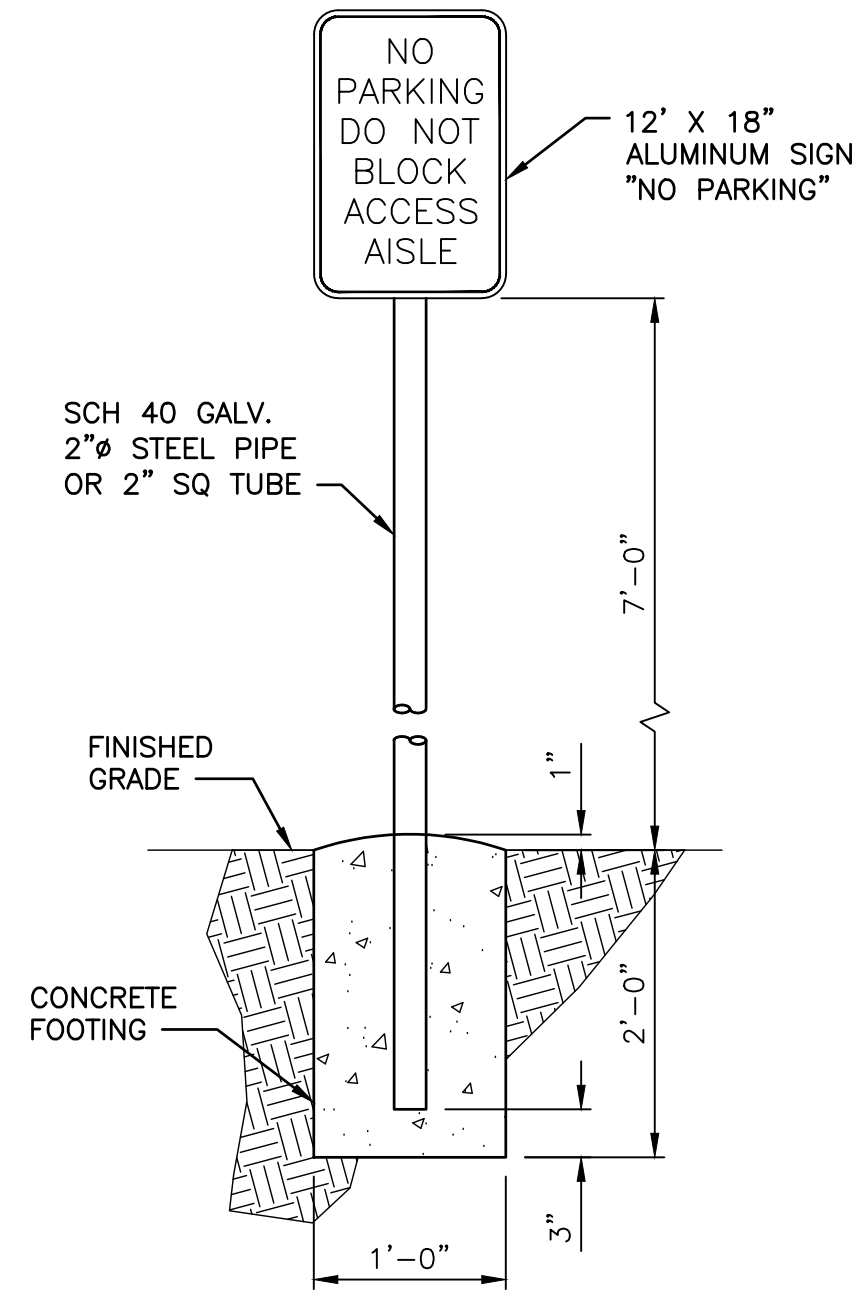


GRAVEL DETAIL
NOT TO SCALE



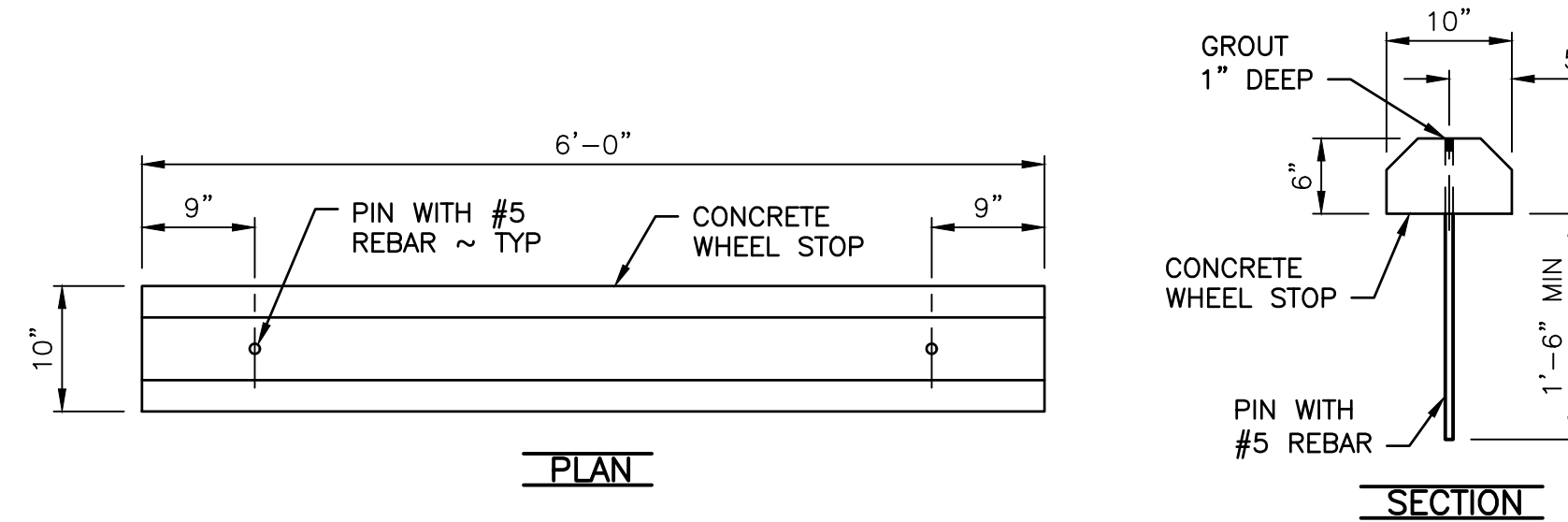
ACCESSIBLE PARKING SIGN
NOT TO SCALE

NOTE: USE TAMPER RESISTANT NUTS TO ATTACH SIGNS TO POST

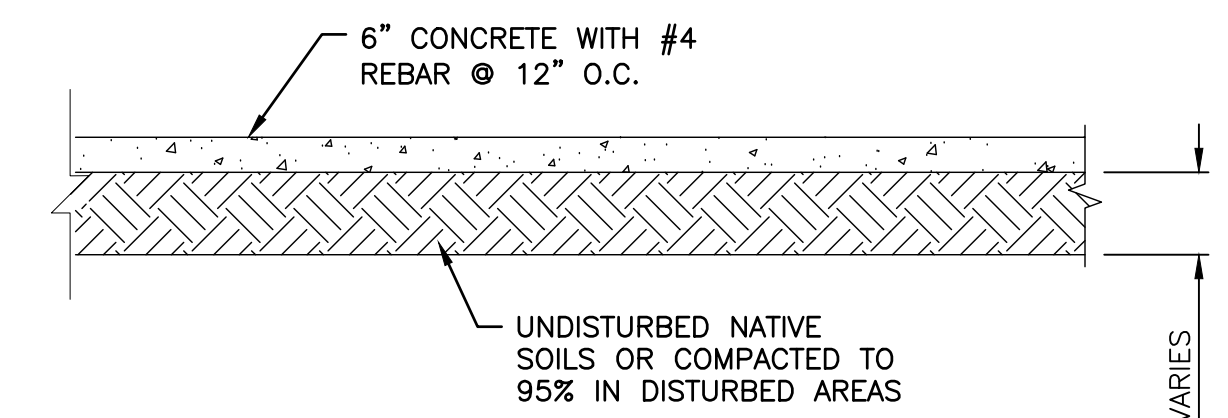


NO PARKING SIGN
NOT TO SCALE

NOTE: USE TAMPER RESISTANT NUTS TO ATTACH SIGNS TO POST



CONCRETE WHEEL STOP
NOT TO SCALE



CONCRETE PAD DETAIL
NOT TO SCALE

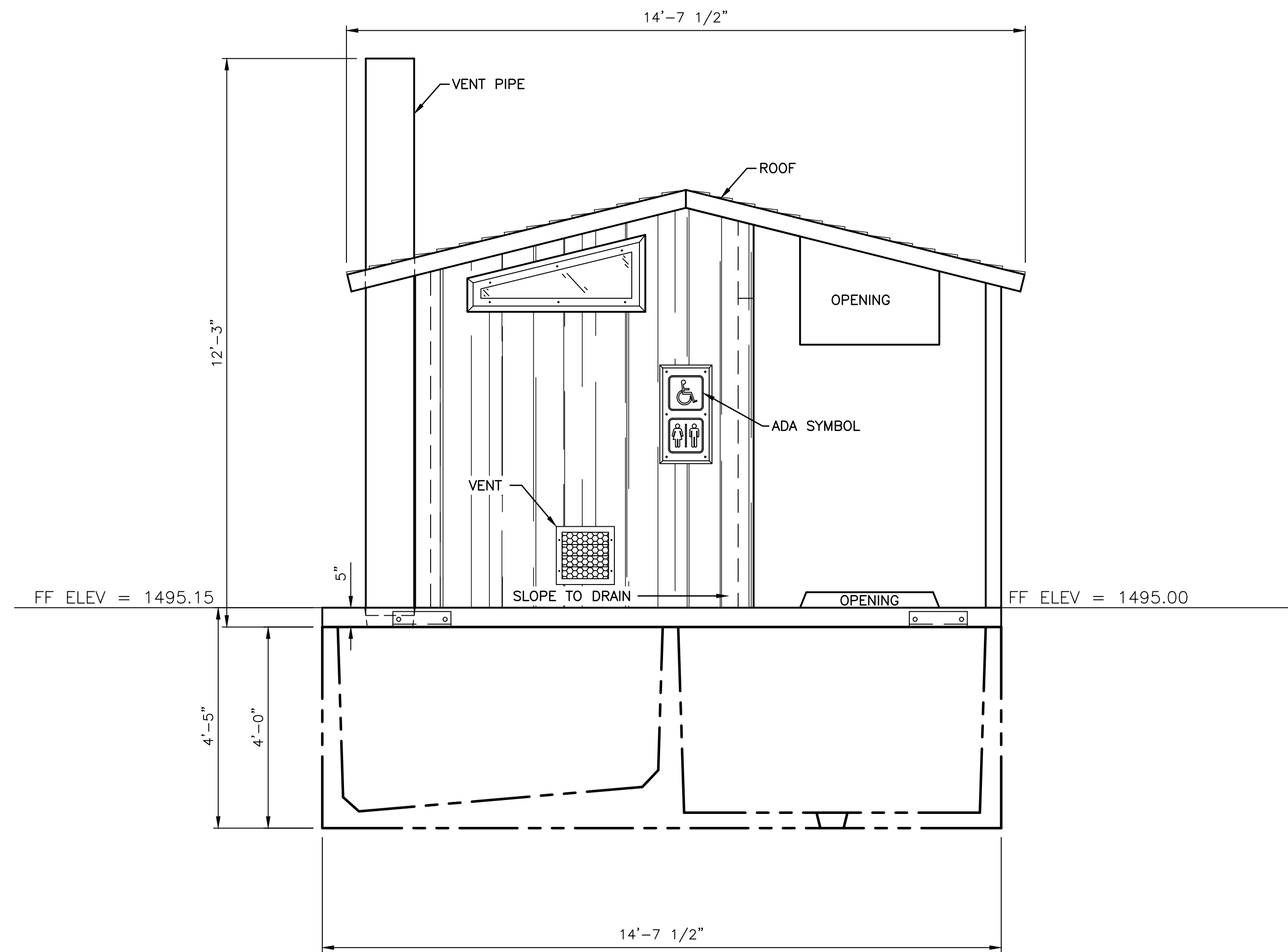
WASHINGTON DEPARTMENT OF
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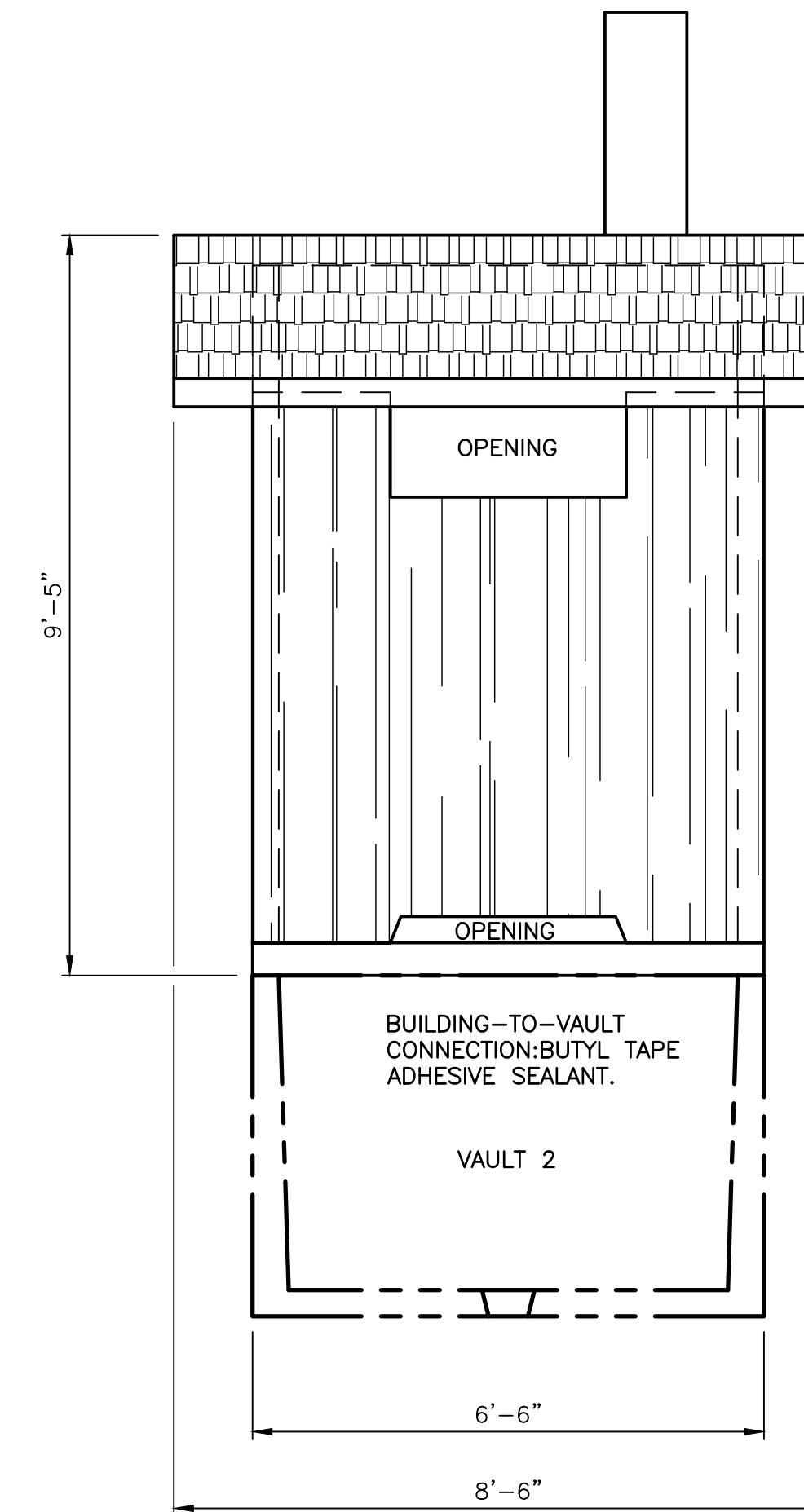
MATTOON LAKE ACCESS
SITE REDEVELOPMENT
ACCESSIBLE PARKING DETAILS

PROJECT NO.
KS:A278:2024-1

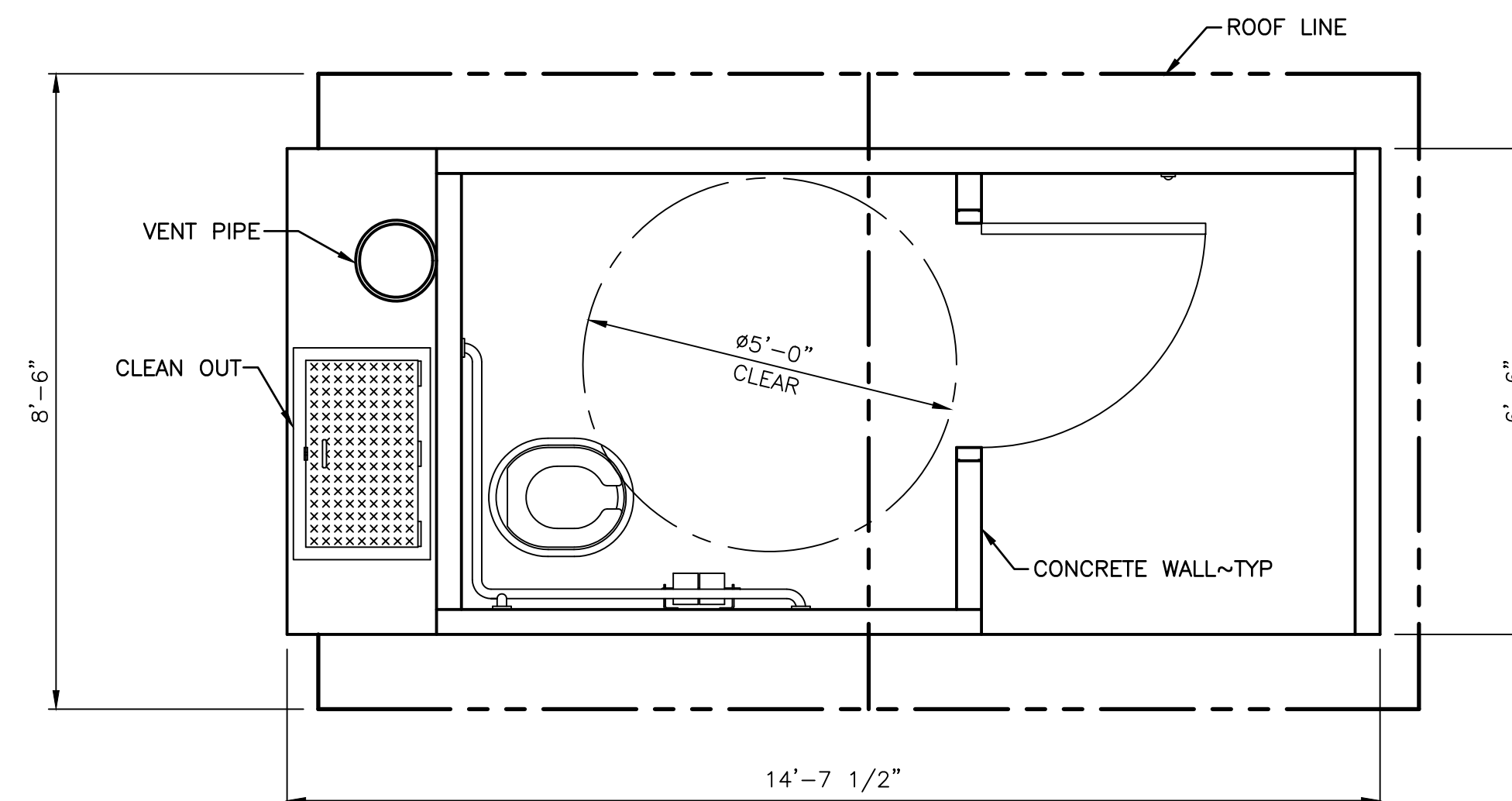
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FRONT ELEVATION
NOT TO SCALE



SIDE ELEVATION
NOT TO SCALE



CXT VAULT TOILET PLAN
NOT TO SCALE

- NOTES:**
1. CHECK OVERHEAD CLEARANCE FOR CRANE AND TOILET PLACEMENT.
 2. CALL BEFORE YOU DIG: 1-800-424-5555 (OR 811).
 3. IF SUBGRADE CONDITION UNSUITABLE SEE PROJECT MANAGER BEFORE PROCEEDING WITH OVER EXCAVATION.
 4. PROVIDE 2 WDFW MASTER LOCK #2 FOR CLEAN OUT AND TOILET PAPER DISPENSER.
 5. TOILET INSTALLATION SHALL BE COMPLETED BY KITTITAS COUNTY LICENSED TOILET INSTALLER (WHERE REQUIRED). PROVIDE A COPY OF THE SEPTIC TANK INSTALLER CERTIFICATION FROM THE COUNTY BY SUBMITTAL TO THE ENGINEER.
 6. REMOVE WASTE AND DEBRIS FROM EXISTING VAULT TOILETS BY VACUUM TRUCK, AND IF NECESSARY, BY OTHER MANUAL MEANS IF TOO LARGE OR ODDLY SHAPED TO BE VACUUMED.
 7. PUMP OUT OF EXISTING VAULT TANK SHALL BE COMPLETED BY KITTITAS COUNTY LICENSED SEPTIC TANK PUMPING CONTRACTOR (WHERE REQUIRED). PROVIDE A COPY OF SEPTIC TANK PUMPING CONTRACT CERTIFICATION FROM THE COUNTY BY SUBMITTAL TO THE ENGINEER.
 8. CXT BUILDING SHOULD BE PLACED WITH VENT STACKS FACING SOUTHWEST TO SOUTHEAST ON SITE, IT WILL RECEIVE MAXIMUM EXPOSURE TO THE SUN AND ALLOW PREVAILING WIND INTO WALL VENTS.



KNOW WHAT'S BELOW
CALL BEFORE YOU DIG

WASHINGTON DEPARTMENT OF
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MATTOON LAKE ACCESS
SITE REDEVELOPMENT
CXT GUNNISON VAULT TOILET DETAILS

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