



WASHINGTON DEPARTMENT OF
FISH AND WILDLIFE

SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT
HAND LAUNCH
SH:R134:2019-2

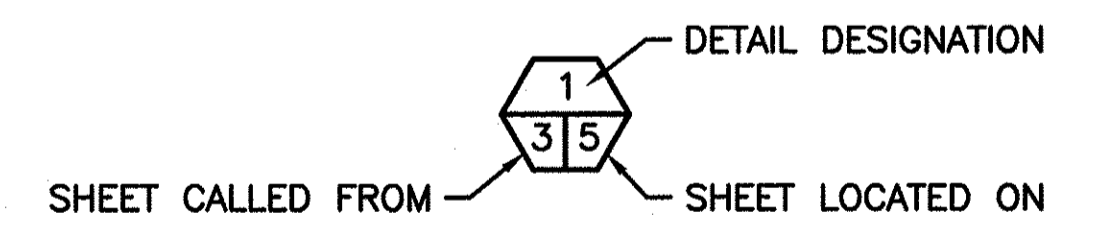
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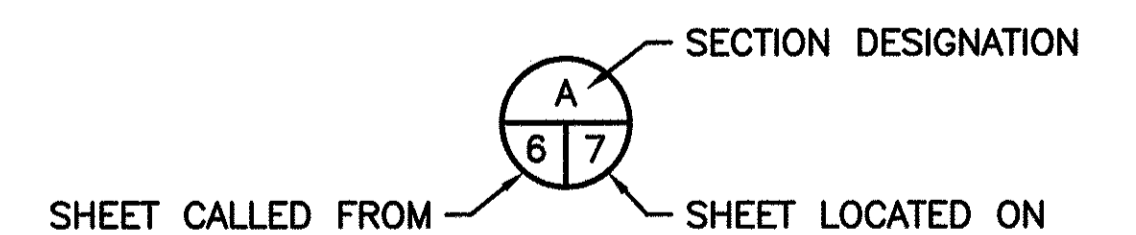
ABBREVIATIONS

ACQ	-	ALKALINE COPPER QUATERNARY
APPROX	-	APPROXIMATELY
CLR	-	CLEARANCE
CSBC	-	CRUSHED SURFACE BASE COURSE
CSTC	-	CRUSHED SURFACE TOP COURSE
CY	-	CUBIC YARD
DIA, ϕ	-	DIAMETER
E	-	EAST
ELEV	-	ELEVATION
EX	-	EXISTING
GALV	-	GALVANIZED
HMA	-	HOT MIX ASPHALT
HSS	-	HIGH STRENGTH STEEL
MIN	-	MINIMUM
N	-	NORTH
OHW	-	ORDINARY HIGH WATER
PL	-	PLATE
R	-	RADIUS
ROW	-	RIGHT OF WAY
SCH	-	SCHEDULE
SF	-	SQUARE FOOT
STA	-	STATIONING
TYP	-	TYPICAL

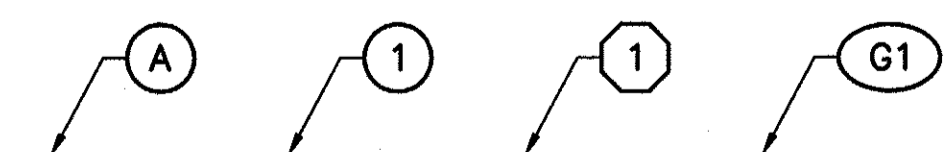
SHEET SYMBOLS



DETAIL



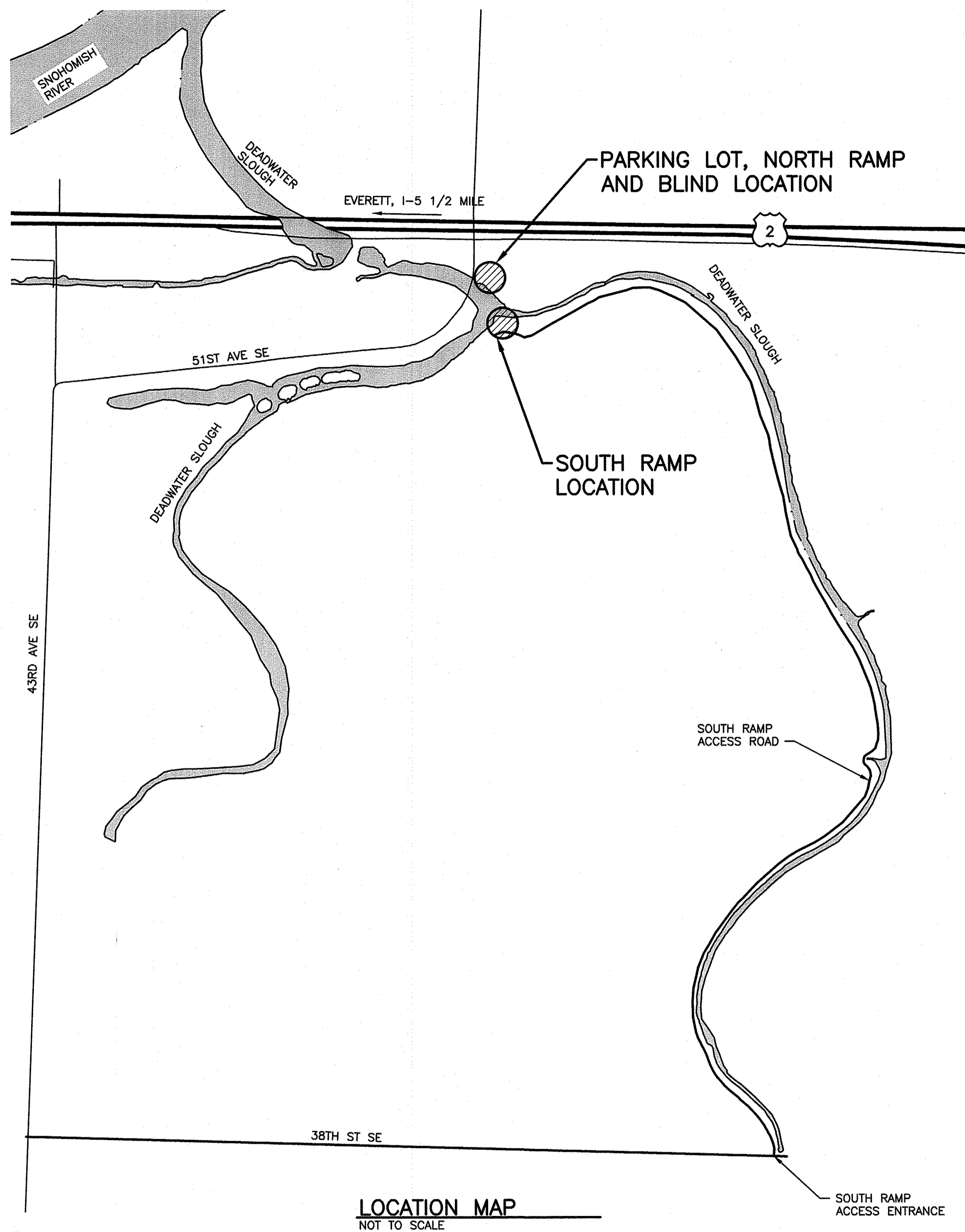
SECTION



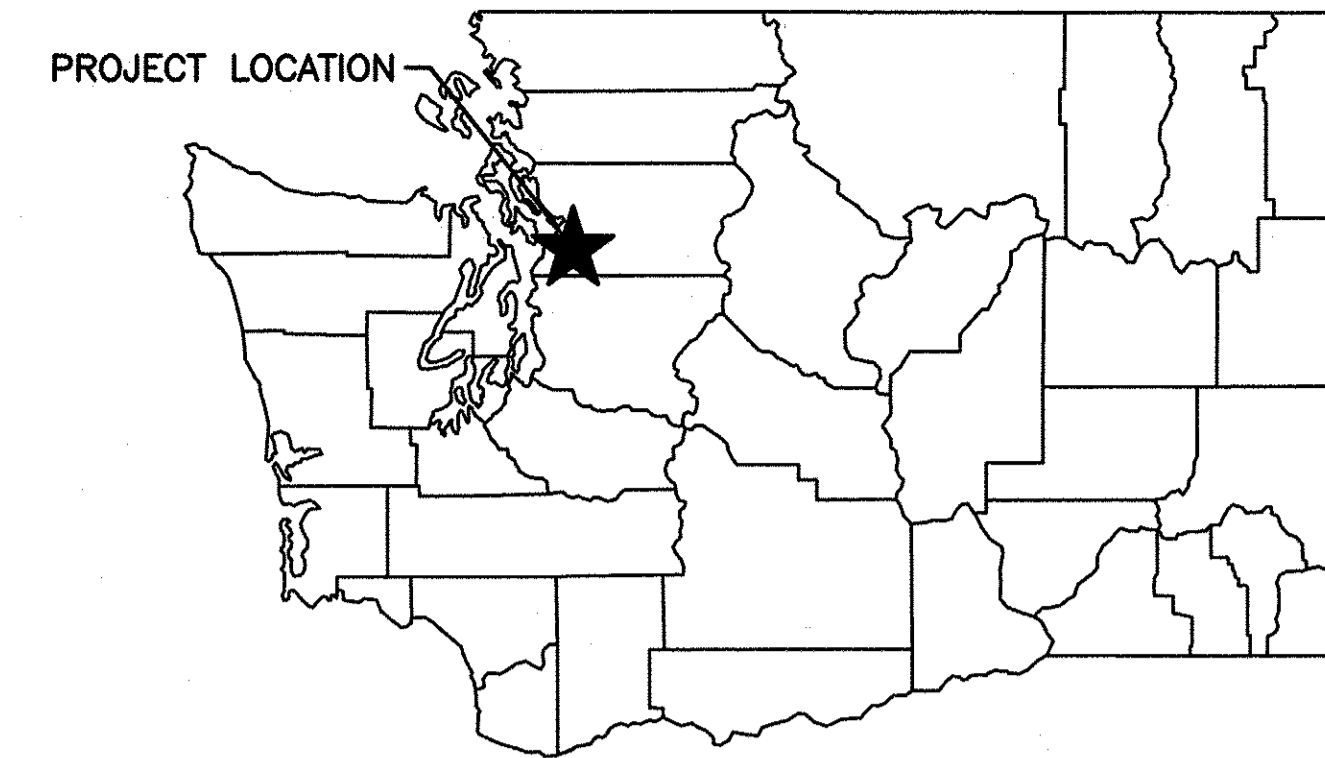
NOTE REFERENCE

REFERENCE DESIGNATION TO A NOTE, A PART, OR MATERIAL IN A SCHEDULE/TABLE

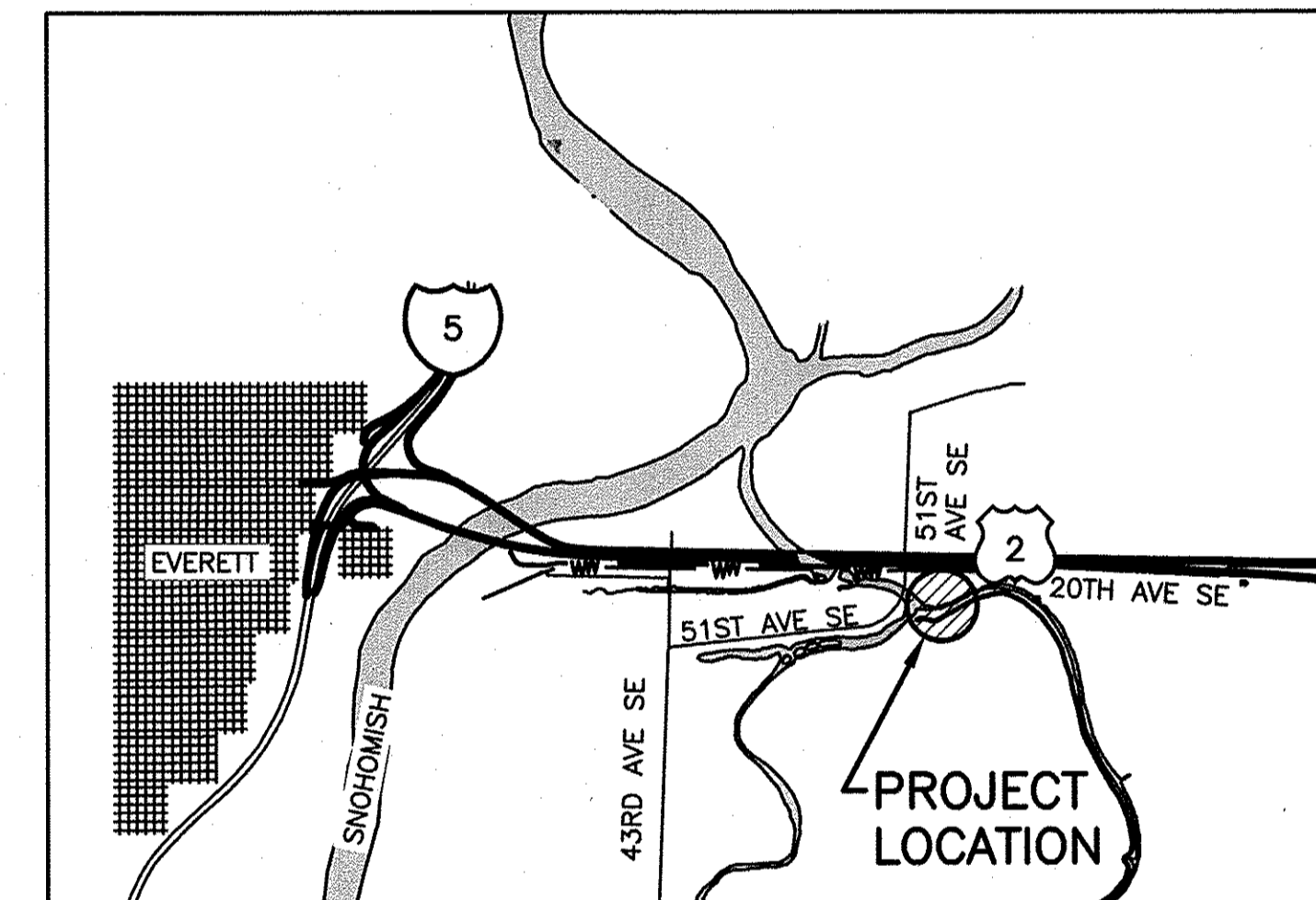
PROJECT NO. SH:R134:2019-2	
SHEET 1	OF 16



LOCATION MAP
NOT TO SCALE



STATE MAP
NOT TO SCALE

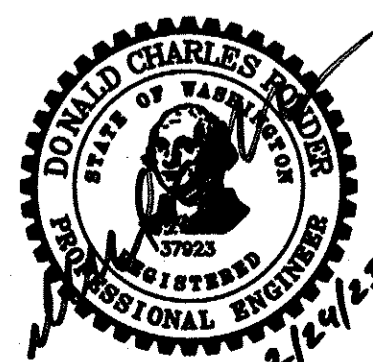


VICINITY MAP
NOT TO SCALE

DIRECTIONS TO PARKING LOT
FROM EVERETT, GO EAST ON
US-2/STEVENS PASS HIWAY APPROX.
2 MILES. TAKE EBAY
ISLAND/HOMEACRES RD. EXIT.
THROUGH FIRST STOP SIGN AT 50TH
ST SE, THIS BECOMES 20TH ST SE.
TO NEXT STOP AT 51ST AVE. SE.
TURN RIGHT ON 51ST AVE. SE, TURN
IMMEDIATE LEFT AT SITE ENTRANCE.

DIRECTIONS TO SOUTH LAUNCH
FROM PARKING LOT ENTRANCE, FOLLOW
51ST AVE. SE TO 43RD AVE SE. TURN
LEFT ON 43RD AVE. SE. FOLLOW 43RD
AVE SE TO 38TH ST SE APPROX 2
MILES TURN LEFT ON 38TH ST SE
AND GO 1.83 MILES TO DIRT ROAD
ENTRANCE ON LEFT.

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE



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		APPROVED AND RELEASED FOR CONSTRUCTION	
CHIEF ENGINEER		DATE:	DESIGNED BY C. ALSTON
PROGRAM		DATE:	CHECKED BY D. SMITH
			DRAWN BY D. HENNING
			DATE 02/13/2023

SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT

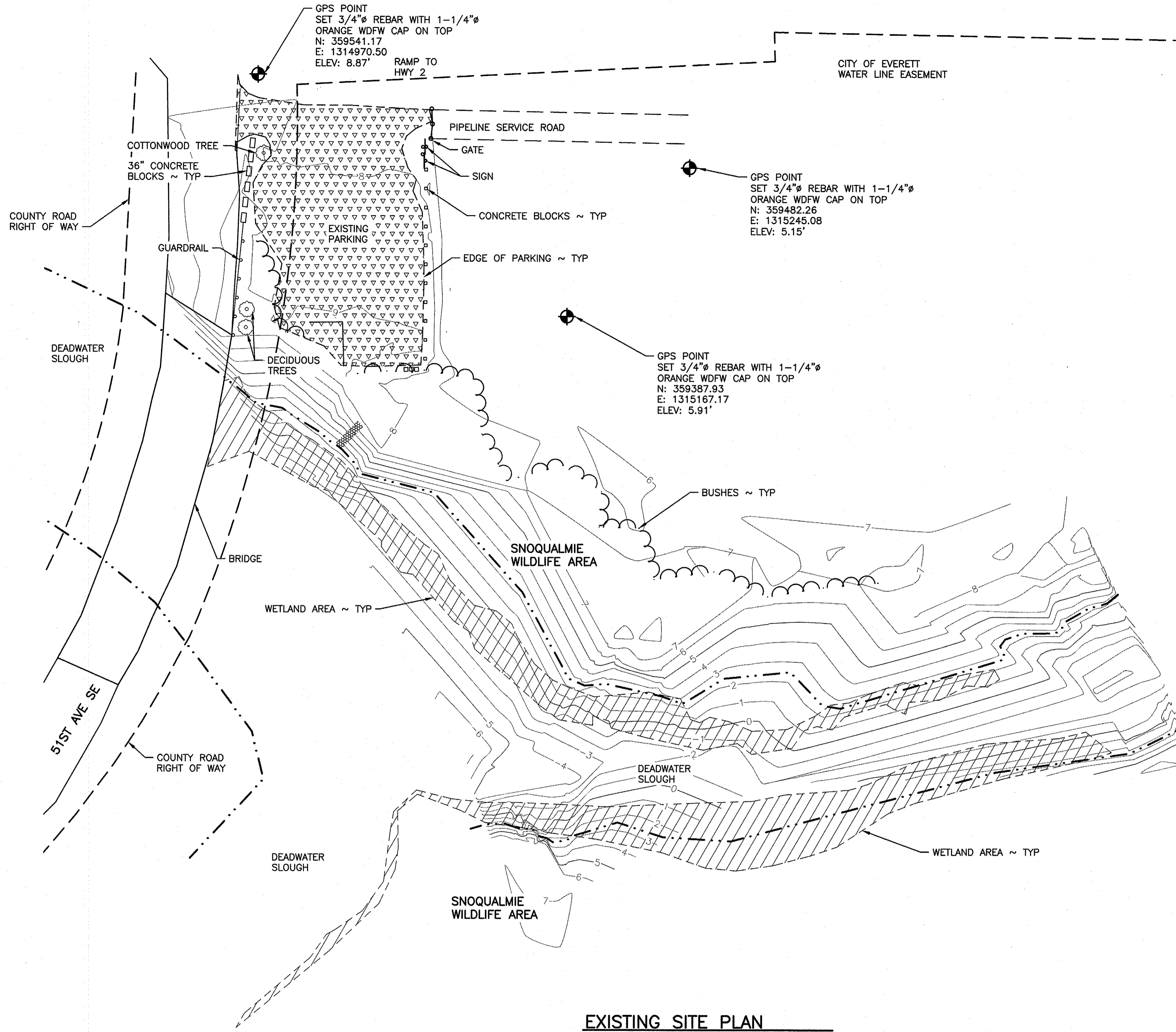
HAND LAUNCH

OVERALL SITE PLAN, STATE & VICINITY MAP

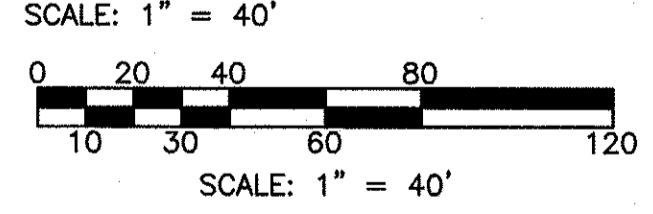
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NOTES:
 1. PER FEMA NATIONAL FLOOD HAZARD LAYER FIRMETTE, THE FULL SITE IS IN ZONE AE FLOOD PLAIN. PANEL 53061C1035F DATED 9/16/2005.
 2. OHW WAS SURVEYED ON FEBRUARY 2, 2020



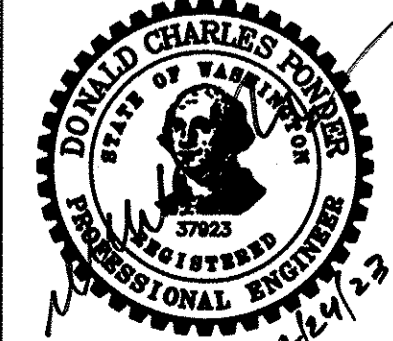
EXISTING SITE PLAN



LEGEND

- HOG FUEL
- ORDINARY HIGH WATER MARK
- WETLAND AREA

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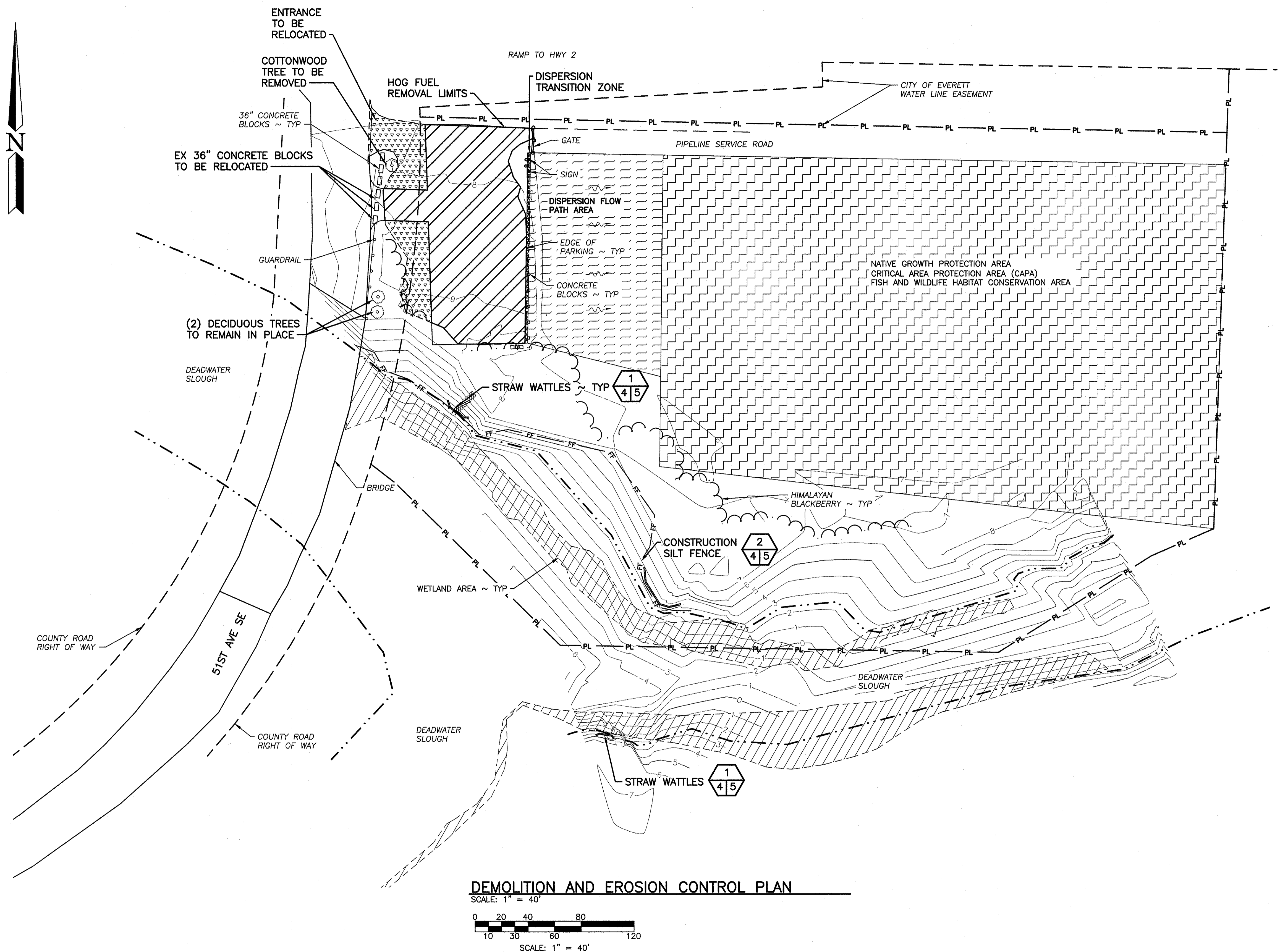
SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT

HAND LAUNCH
 EXISTING SITE PLAN

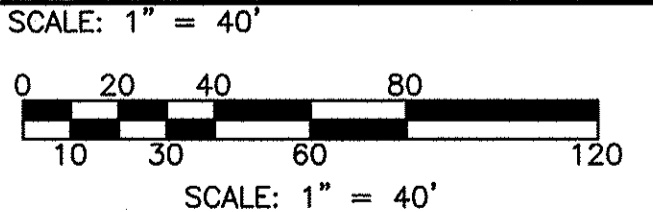
PROJECT NO.
 SH:R134:2019-2

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NOTE:
 CONTRACTOR MUST AMEND ALL DISTURBED SOILS IN ACCORDANCE WITH BMP T5.15 POST-CONSTRUCTION SOIL QUALITY AND DEPTH PER SNOHOMISH COUNTY STORMWATER DESIGN MANUAL.



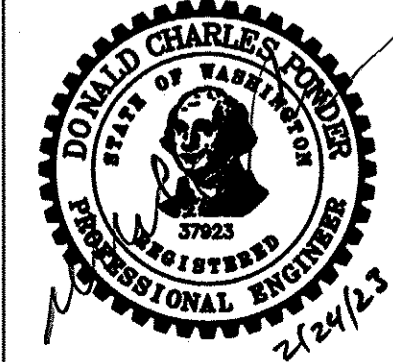
DEMOLITION AND EROSION CONTROL PLAN



LEGEND

CONSTRUCTION SILT FENCE	— FF —
DISPERSION FLOW PATH AREA	
HOG FUEL TO REMAIN	
HOG FUEL TO BE REMOVED	
NATIVE GROWTH PROTECTION AREA	
SHEETFLOW	
WETLAND AREA	
DISPERSION TRANSITION ZONE	
PROPERTY LINE	— PL —
ORDINARY HIGH WATER MARK	— · · · —

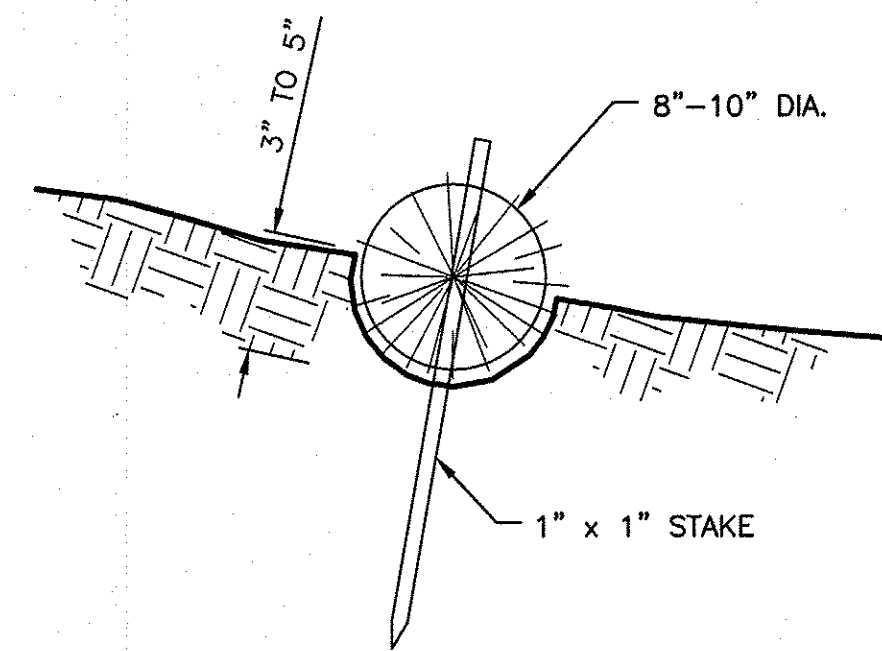
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SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT
HAND LAUNCH
 DEMOLITION AND EROSION CONTROL PLAN

PROJECT NO. SH:R134:2019-2	
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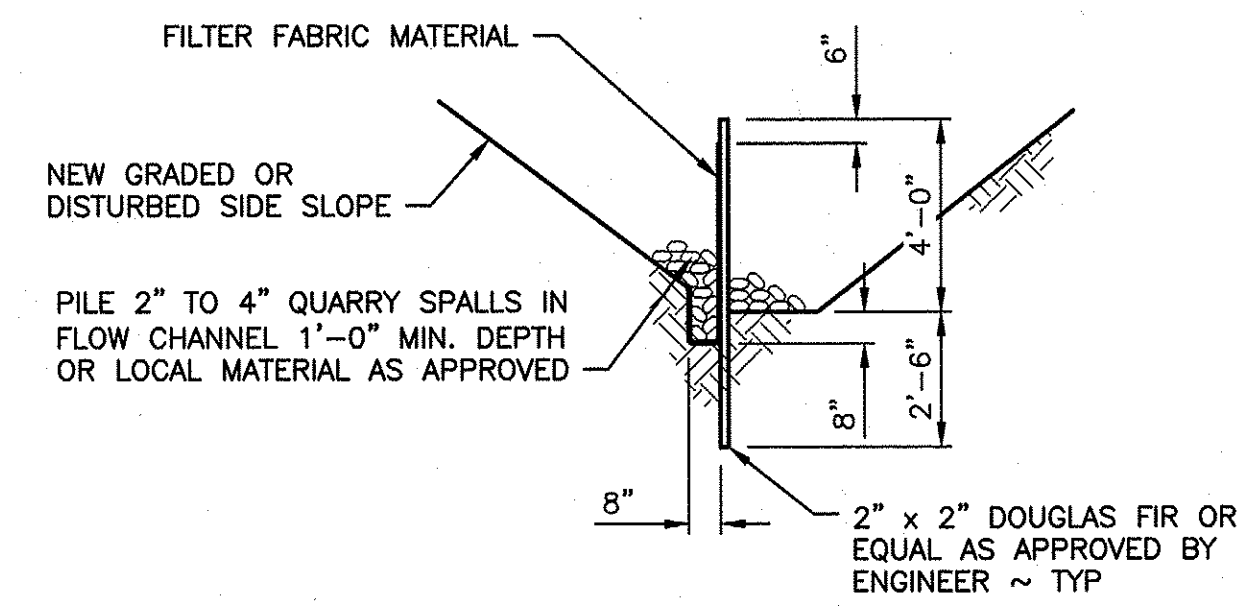
STRAW WATTLE DETAIL

NOT TO SCALE

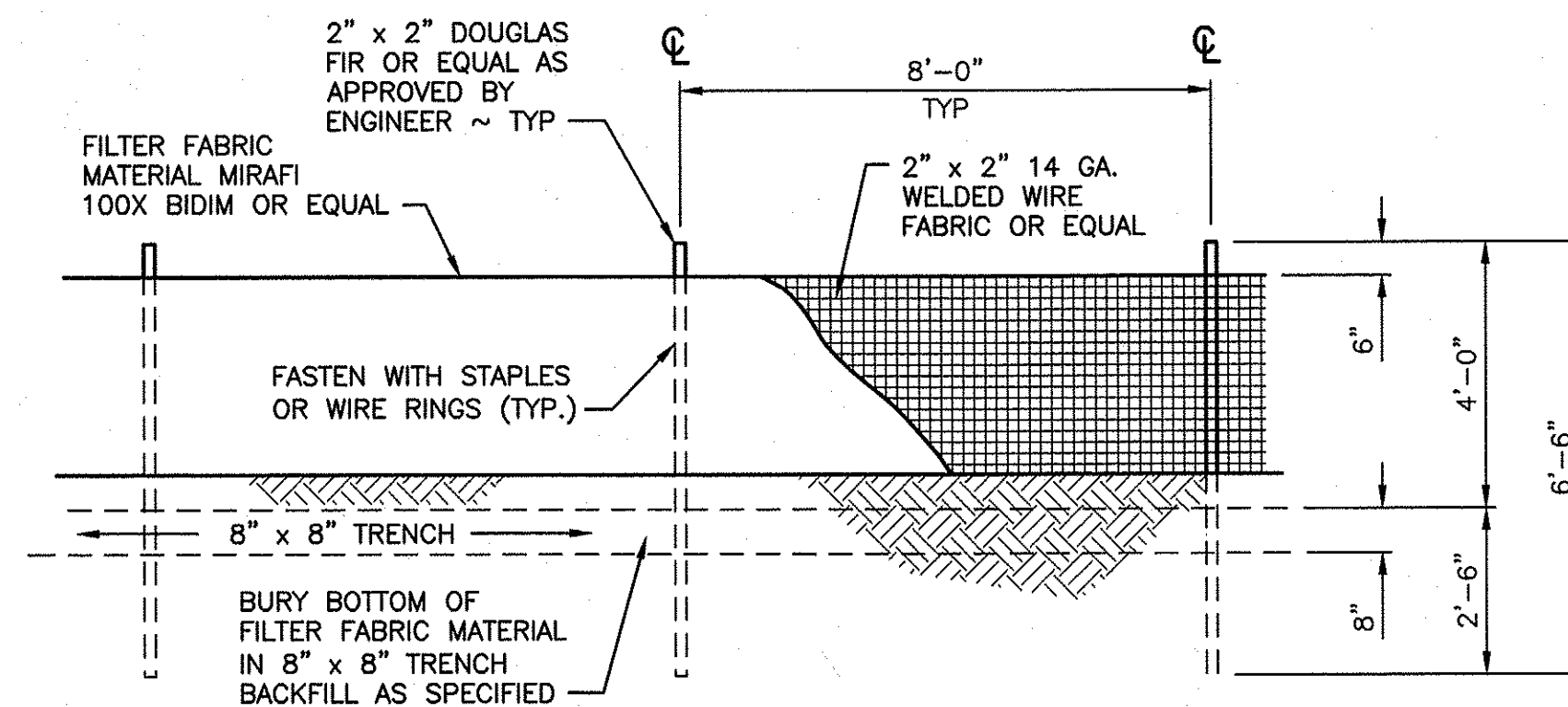


STRAW WATTLE NOTES:

1. PREPARE THE SLOPE BEFORE THE WATTLING PROCEDURE IS STARTED.
2. SMOOTH SHALLOW GULLIES AS WORK PROGRESSES.
3. DIG SMALL TRENCHES ACROSS THE SLOPE ON CONTOUR, TO PLACE ROLLS IN. THE TRENCH SHOULD BE DEEP ENOUGH TO ACCOMMODATE HALF THE THICKNESS OF THE ROLL. WHEN THE SOIL IS LOOSE AND UNCOMPACTED, THE TRENCH SHOULD BE DEEP ENOUGH TO BURY THE ROLL 2/3 OF ITS THICKNESS BECAUSE THE GROUND WILL SETTLE.
4. ROLLS SHALL BE INSTALLED PERPENDICULAR TO WATER MOVEMENT, PARALLEL TO THE SLOPE CONTOUR.
5. BUILD TRENCHES AND INSTALL ROLLS FROM THE BOTTOM OF THE SLOPE AND WORK UP.
6. CONSTRUCT TRENCHES AT CONTOUR INTERVALS 3-12 FEET APART DEPENDING ON STEEPNESS OF SLOPE. THE STEEPER THE SLOPE, THE CLOSER TOGETHER THE TRENCHES. 1:1=10' 2:1=20' 3:1=30' 4:1=40'
7. LAY THE ROLL ALONG THE TRENCHES FITTING IT SNUGLY AGAINST THE SOIL. MAKE SURE NO GAPS EXIST BETWEEN THE SOIL AND THE STRAW WATTLE.
8. USE A STRAIGHT BAR TO DRIVE HOLES THROUGH THE WATTLE AND INTO THE SOIL FOR THE WILLOW OR WOODEN STAKES.
9. DRIVE THE STAKE THROUGH PREPARED HOLE INTO SOIL. LEAVE ONLY 1 OR 2 INCHES OF STAKE EXPOSED ABOVE ROLL.
10. IF USING WILLOW STAKES REFER TO LIVE STAKING BEST MANAGEMENT PRACTICES.
11. INSTALL STAKES AT LEAST EVERY 4 FEET APART THROUGH THE WATTLE. ADDITIONAL STAKES MAY BE DRIVEN ON THE DOWNSLOPE SIDE OF THE TRENCHES ON HIGHLY EROSIVE OR VERY STEEP SLOPES.
12. INSPECT THE STRAW ROLLS AND THE SLOPES AFTER SIGNIFICANT STORMS. MAKE SURE THE ROLLS ARE IN CONTACT WITH THE SOIL.
13. REPAIR ANY RILLS OR GULLIES PROMPTLY.
14. RESEED OR REPLANT VEGETATION IF NECESSARY UNTIL SLOPES ARE STABILIZED.

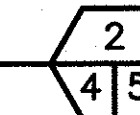


SECTION



FILTER FABRIC FENCE

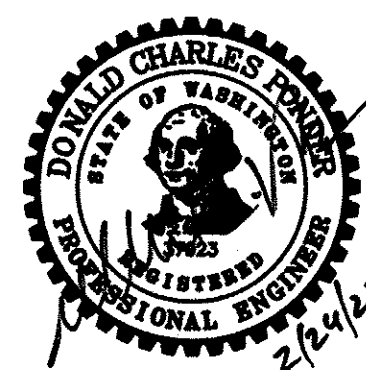
NOT TO SCALE



FILTER FABRIC NOTES:

1. FILTER FABRIC SHALL BE PURCHASED CONTINUOUS ROLL CUT TO LENGTH OF BARRIER AS NEEDED. IF JOINTS ARE NECESSARY FABRIC SHALL BE SPliced TOGETHER ONLY AT SUPPORT POSTS WITH A MINIMUM OF (6) INCH OVERLAP. BOTH ENDS SHALL BE SECURED AS REQUIRED.
2. FILTER FABRIC SHALL BE INSTALLED TO FOLLOW CONTOURS. FENCE POSTS SHALL BE SPACED A MAXIMUM OF EIGHT (8) FEET APART UNLESS OTHERWISE SHOWN HEREIN. ALL POSTS SHALL BE DRIVEN INTO THE GROUND A MINIMUM OF 30 INCHES.
3. A TRENCH SHALL BE EXCAVATED, ROUGHLY EIGHT (8) INCHES WIDE BY EIGHT (8) INCHES DEEP UP SLOPE AND ADJACENT TO THE POST TO ALLOW THE FILTER FABRIC TO BE BURIED.
4. WHEN STANDARD STRENGTH FILTER FABRIC IS UTILIZED, A WIRE SINGLE SPACE MESH SUPPORT FENCE SHALL BE FASTENED TO THE UPSLOPE (OR UPSTREAM) SIDE OF THE POSTS USING ONE (1) INCH MINIMUM LENGTH WIRE STAPLES, TIE WIRE OR APPROVED HOG RINGS. ALL WIRE SUPPORT SHALL EXTEND INTO THE TRENCH A MINIMUM OF FOUR (4) INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE ORIGINAL GRADE.
5. ALL FILTER FABRIC SHALL BE STAPLED OR WIRED TO SUPPORT FENCING AND A MINIMUM OF 20 INCHES OF FABRIC SHALL BE EXTENDED INTO THE TRENCH. FILTER FABRIC SHALL NOT BE STAPLED OR FASTENED TO EXISTING TREES OR STRUCTURES UNLESS OTHERWISE APPROVED BY THE OWNER.
6. IF HIGH STRENGTH FILTER FABRIC AND CLOSER SPACING ARE USED, THE WIRE SUPPORT FENCING MAY BE ELIMINATED. HIGH STRENGTH FABRIC SHALL BE STAPLED OR WIRED DIRECTLY TO POSTS AS REQUIRED BY THE OWNER.
7. CUTOFF TRENCH SHALL BE BACKFILLED WITH 3/4 INCH MINIMUM DIAMETER WASHED GRAVEL OR OTHER SIMILAR SOURCE AS APPROVED BY THE OWNER.
8. FILTER FENCING SHALL BE INSTALLED WHERE SHOWN ON THE PLAN, OR AS MARKED IN THE FIELD BY THE OWNER, PRIOR TO COMMENCEMENT OF WORK. ALL FENCING SHALL BE INSPECTED DAILY DURING CONSTRUCTION AND AFTER EACH SIGNIFICANT RAINFALL EVENT UNTIL SITE HAS BEEN PERMANENTLY STABILIZED. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. REMOVAL OF TRAPPED SEDIMENT SHALL BE PERFORMED WHEN AMOUNTS REACH APPROXIMATELY 1/3 HEIGHT OF THE FENCE.
10. FILTER FENCING SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN REVEGETATED TO ORIGINAL CONDITION OR DIRECTED BY THE OWNER.

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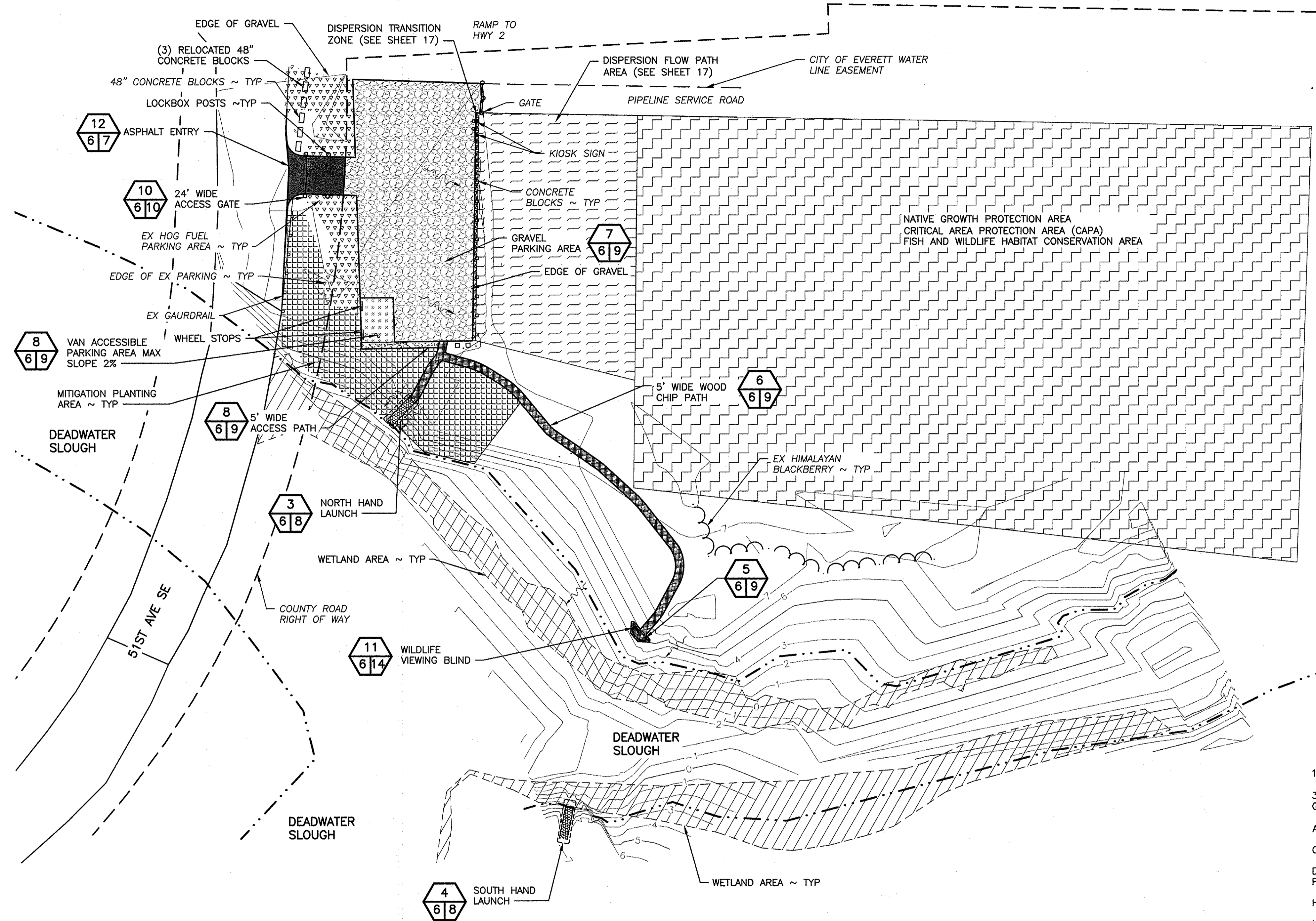
HAND LAUNCH
EROSION CONTROL DETAILS

PROJECT NO.
SH:R134:2019-2

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NOTES:

1. IN ACCORDANCE WITH BMP T5.30 FULL DISPERSION OF THE SNOHOMISH COUNTY DRAINAGE MANUAL, ON-SITE RUNOFF FROM TRAVEL PARKING AREA, ACCESS ENTRANCE, AND SOME TRAILS WILL SHEET FLOW TO A DISPERSION AREA WITH A 100-FOOT MINIMUM FLOW PATH.
2. ACCESS TO SOUTH HAND LAUNCH WILL BE OVERLAND FROM THE SOUTH OF THE ISLAND
3. CONSTRUCTION EQUIPMENT INCLUDING A TRUCK AND HAND TOOLS WILL TEMPORARILY USE THIS ACCESS IT INSTALL THE SOUTH HAND-CARRY BOAT LAUNCH. THE PUBLIC WILL NOT HAVE ACCESS TO THIS LAUNCH WITH MOTORIZED VEHICLES.



APPROX. QUANTITIES

AREA	MATERIAL	AMOUNT
PARKING	CSBC	429 CY
ENTRY	CSBC	22.8 CY
ENTRY	HMA	8.2 CY
ENTRY	CSTC	5.5 CY
ACCESS PARKING	CSBC	17.7 CY
ACCESS PARKING	3/8" MINUS	3.6 CY
ACCESS PATH	3/8" MINUS	1.2 CY
ACCESS PATH	CSBC	6.0 CY
PATH	WOOD CHIPS	9.6 CY
SOUTH HAND LAUNCH	GRAVEL 1-1/4" MINUS	1.9 CY
NORTH HAND LAUNCH	GRAVEL 1-1/4" MINUS	1.9 CY
FLOW SPREADER	WASHED ROCK	5.3 CY
DISPERSION FLOW PATH	COMPOST	354 CY
TOTAL		866.7 CY

IMPERVIOUS SURFACING

AREA	EXISTING (SF)	+/- CHANGE	PROPOSED
HOG FUEL PARKING AND ENTRY	15,732 SF	-12,284 SF	3,448 SF
GRAVEL PARKING	-	+11,757 SF	11,757 SF
FLOW SPREADER	-	+287 SF	287 SF
HMA ENTRY	-	+885 SF	885 SF
ACCESSIBLE GRAVEL PARKING	-	+575 SF	575 SF
ACCESSIBLE GRAVEL PATH	-	+194 SF	194 SF
WOOD CHIP PATH	-	+1,480 SF	1,480 SF
HAND LAUNCH	-	+ 205 SF	205 SF
VIEWING BLIND	-	+81 SF	81 SF
TOTALS	15,732 SF	+3,179 SF	18,911 SF
PERCENT CHANGE		15.21% INCREASE	

CUT AND FILL

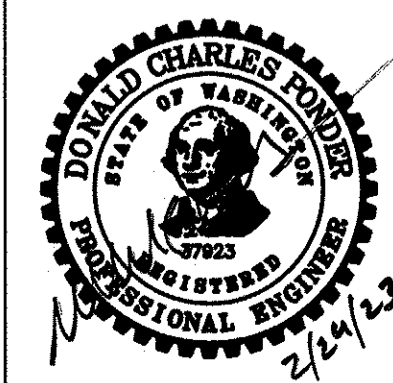
SITE	CUT ABOVE OHW	CUT BELOW OHW	FILL ABOVE OHW	FILL BELOW OHW
PARKING	429 CY	---	429 CY	---
DISPERSION TRANSITION ZONE	5.3 CY	---	5.3 CY	---
ENTRY	36.5 CY	---	36.5 CY	---
DISPERSION FLOW PATH	354 CY	---	354 CY	---
ACCESS PARKING	21.3 CY	---	21.3 CY	---
ECOLOGY BLOCKS	---	---	8.5 CY	---
ACCESS PATH	7.2 CY	---	7.2 CY	---
PATH	23 CY	---	9.6 CY	---
HAND LAUNCH	7.0 CY	---	3.8 CY	---
TOTALS	883.3 CY	---	875.2 CY	---

- LEGEND**
- 1-1/4" GRAVEL [Symbol]
 - 3/8" MINUS GRAVEL [Symbol]
 - ASPHALT (HMA) [Symbol]
 - CSBC [Symbol]
 - DISPERSION FLOW PATH [Symbol]
 - HOG FUEL [Symbol]
 - NATIVE GROWTH PROTECTION AREA [Symbol]
 - SHEETFLOW [Symbol]
 - VAN ACCESSIBLE PARKING [Symbol]
 - WETLAND AREA [Symbol]
 - WOOD CHIPS [Symbol]
 - DISPERSION TRANSITION ZONE [Symbol]
 - MITIGATION PLANTING AREA [Symbol]

PROPOSED SITE PLAN
SCALE: 1" = 40'

SCALE: 1" = 40'

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

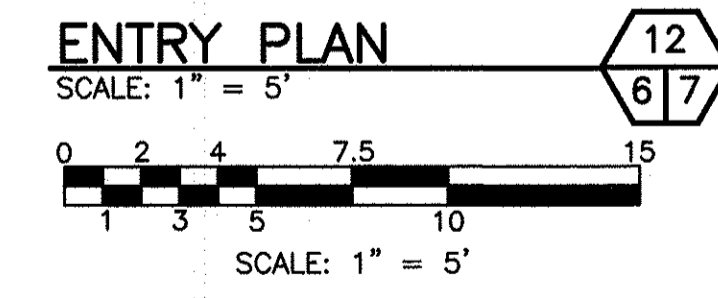
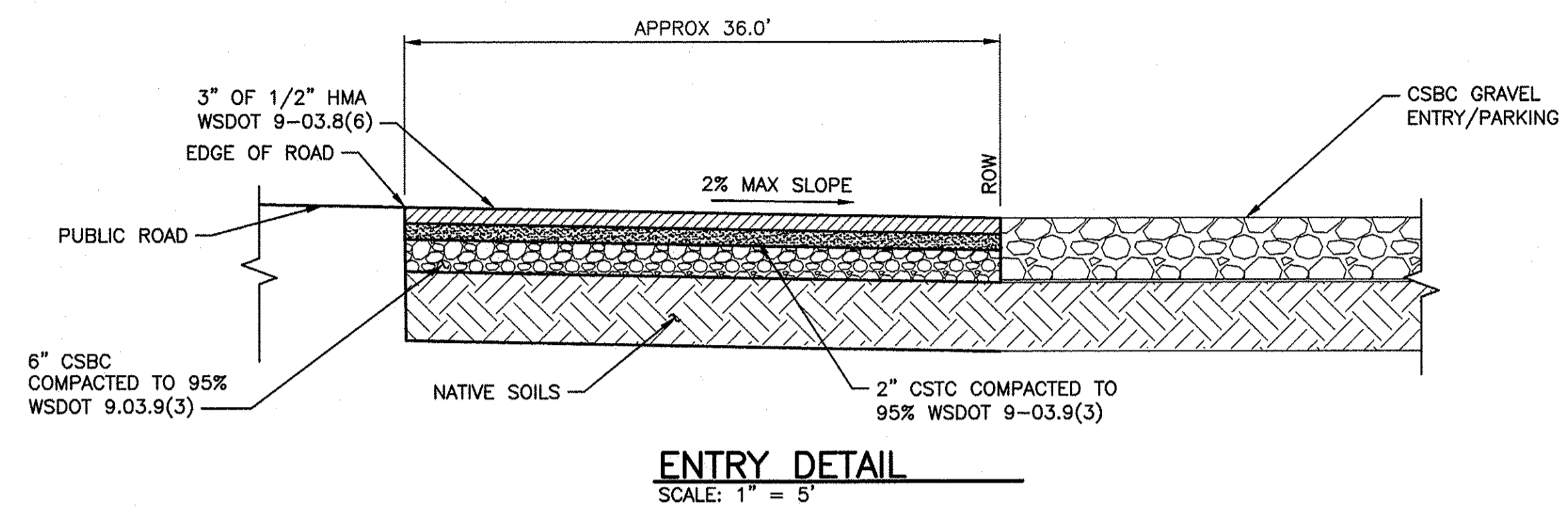
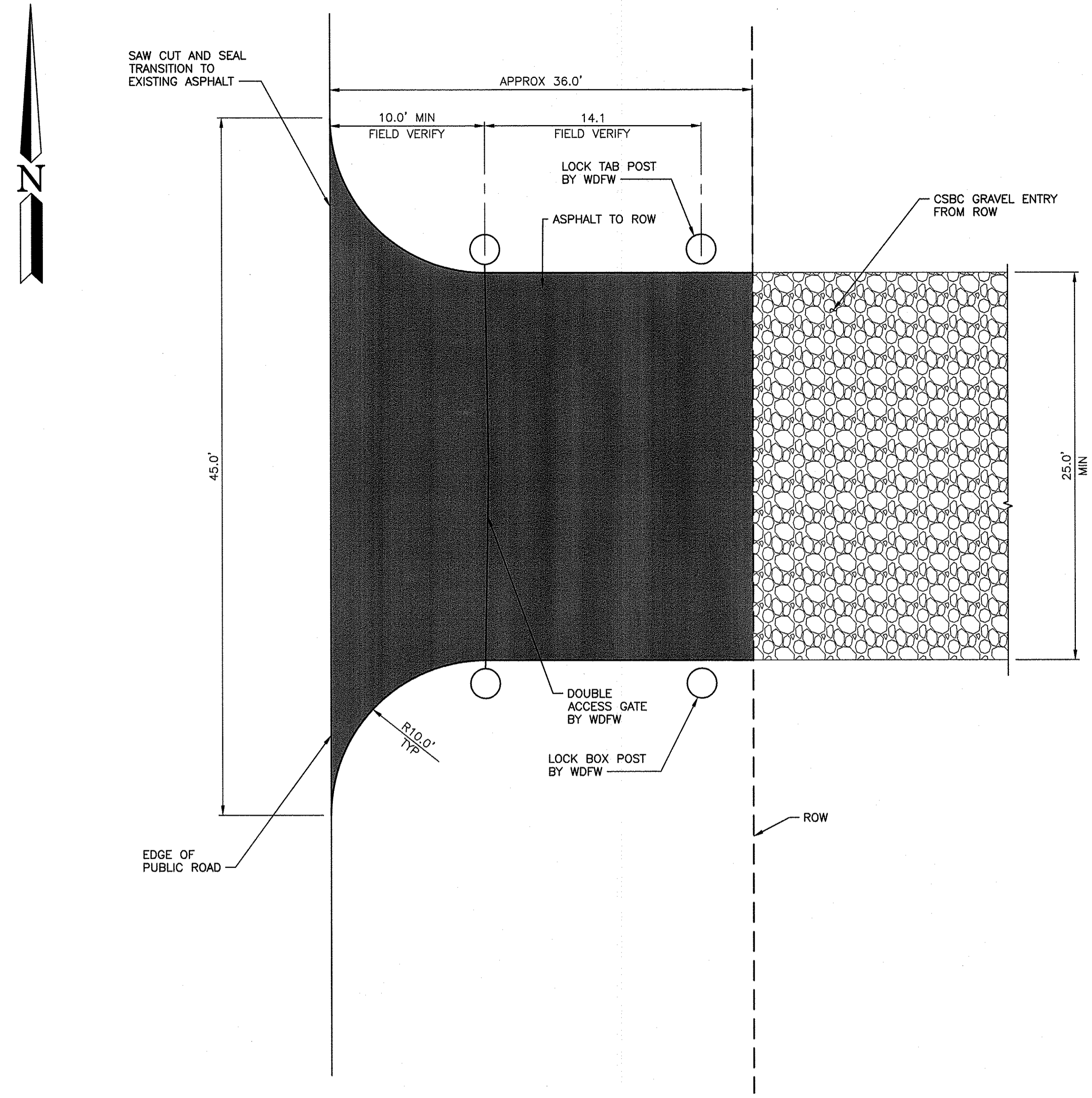


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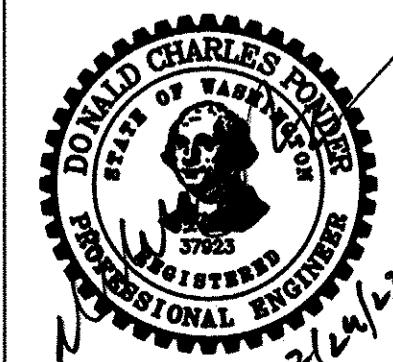
SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT
HAND LAUNCH
PROPOSED SITE PLAN, QUANTITIES AND TABLES

PROJECT NO.
SH:R134:2019-2
SHEET 6 OF 16

NOTE:
 ALL SURFACE DRAINAGE FROM DRIVEWAY MUST BE CONTAINED AND DIRECTED FROM DRIVEWAY. NO SURFACE DRAINAGE SHALL FLOW ONTO THE COUNTY ROAD



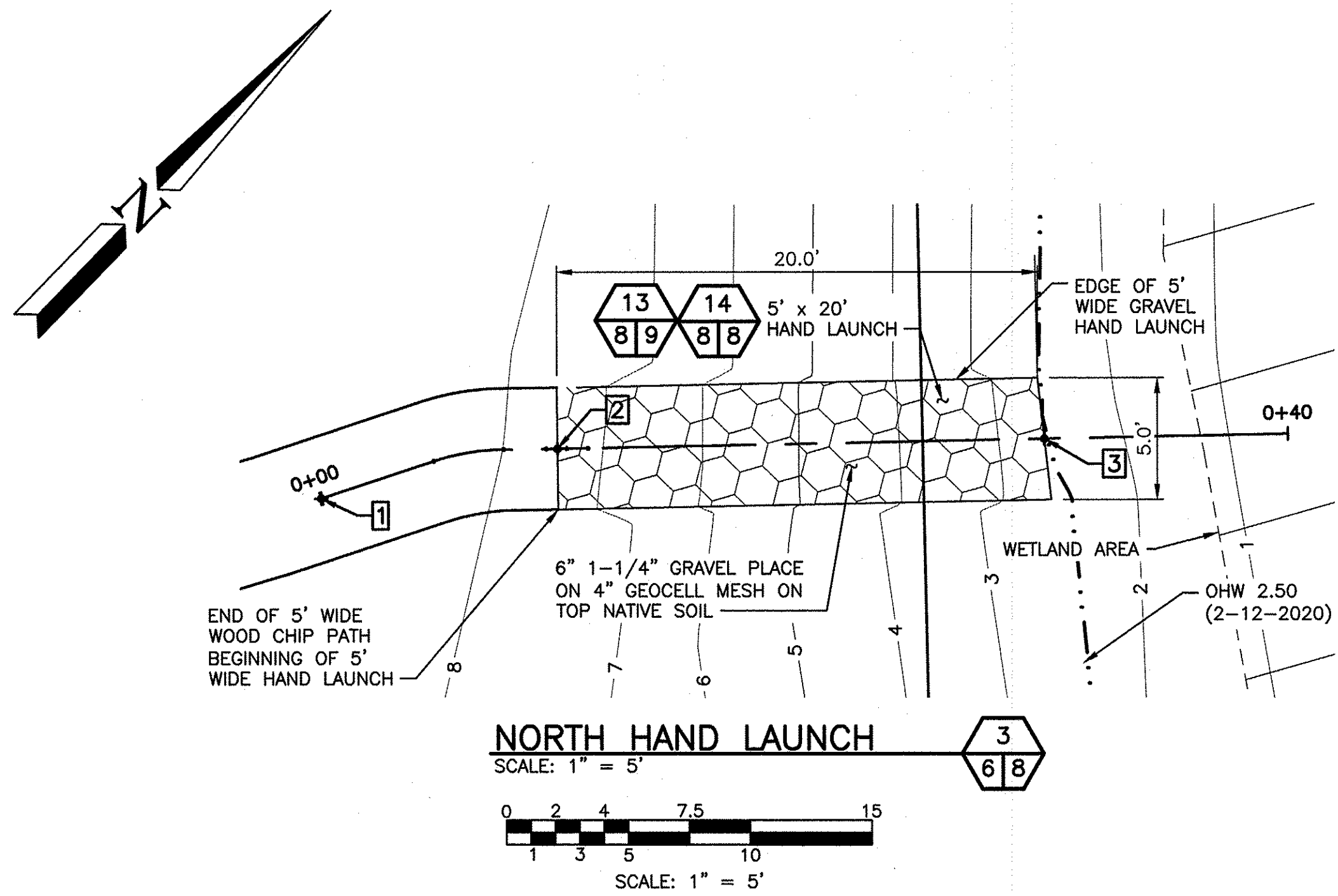
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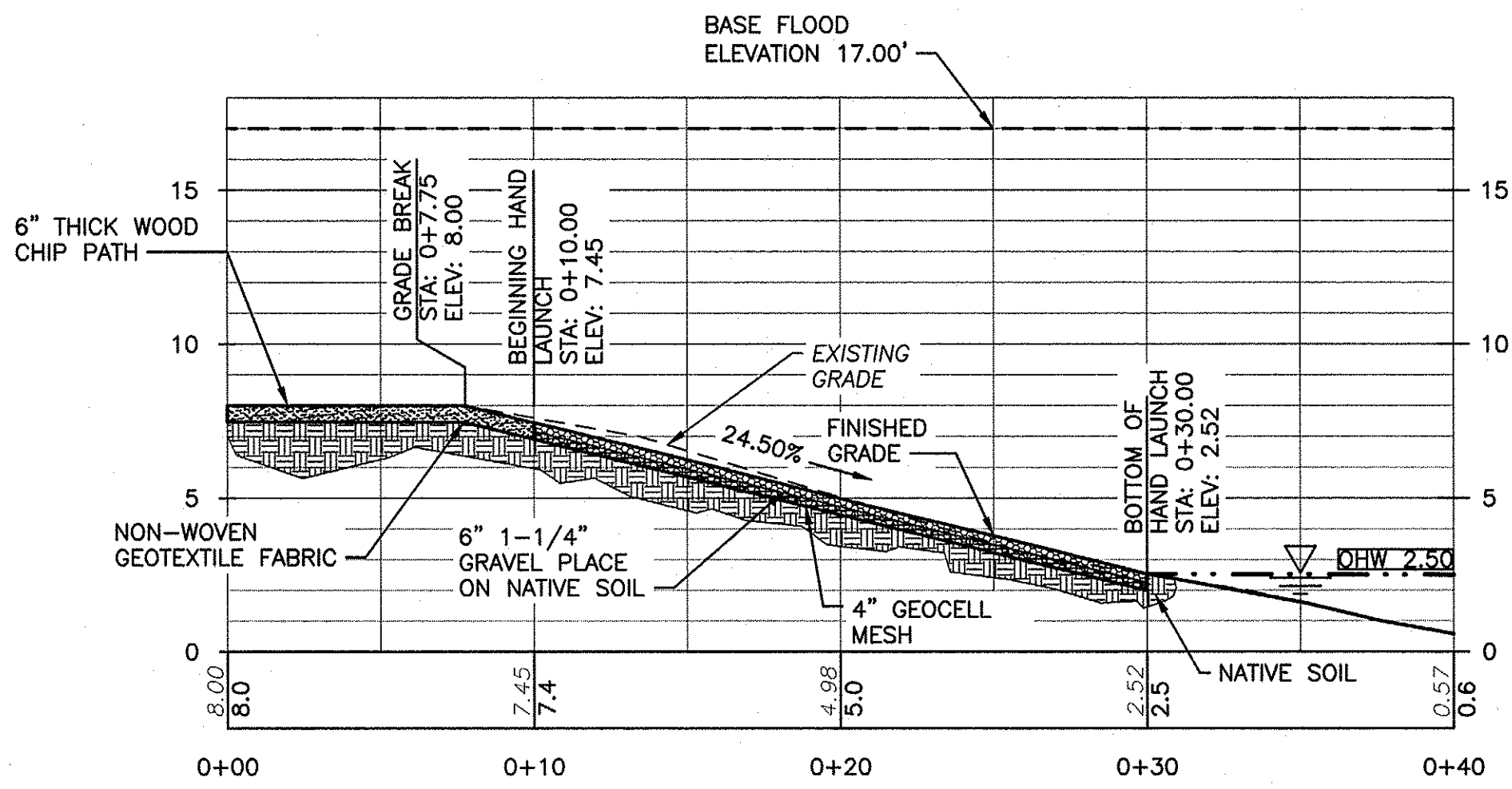
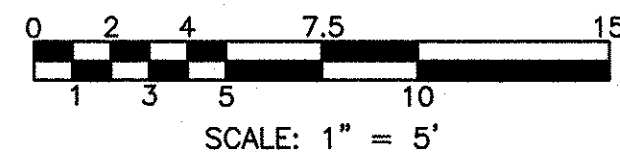
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SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT
HAND LAUNCH
 ENTRY PLAN AND DETAIL

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 SHEET 7 OF 16

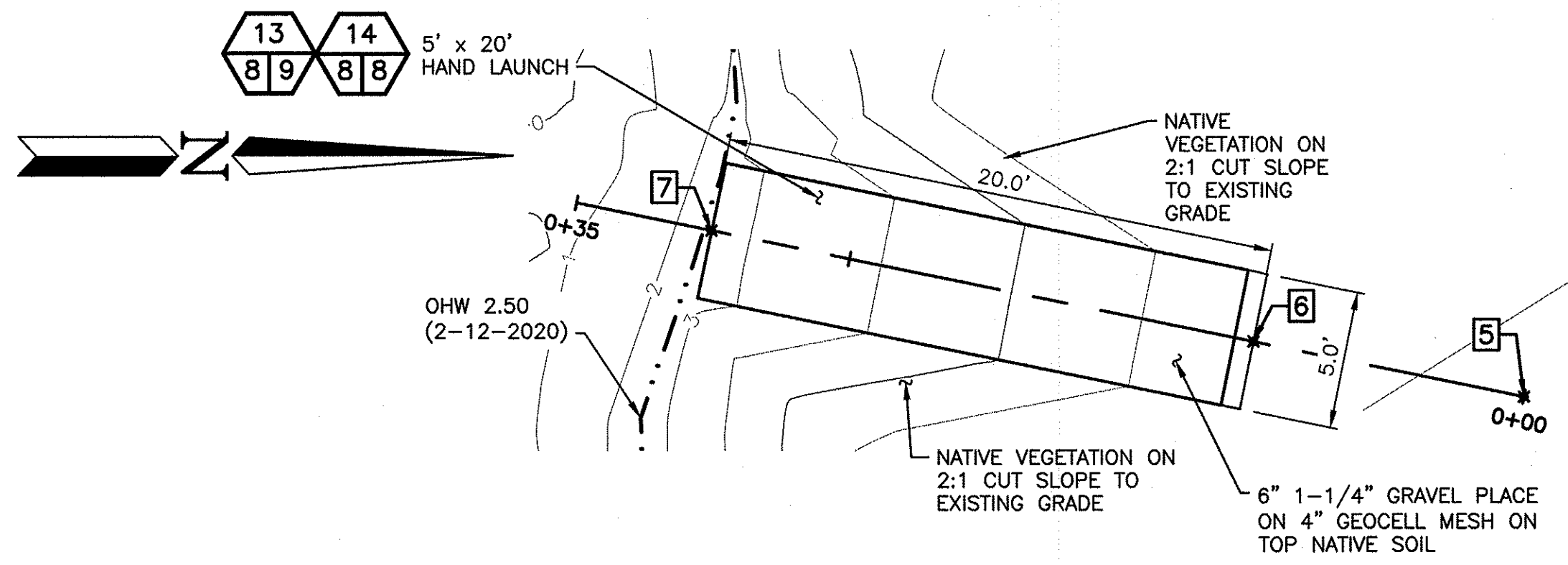


NORTH HAND LAUNCH
SCALE: 1" = 5'

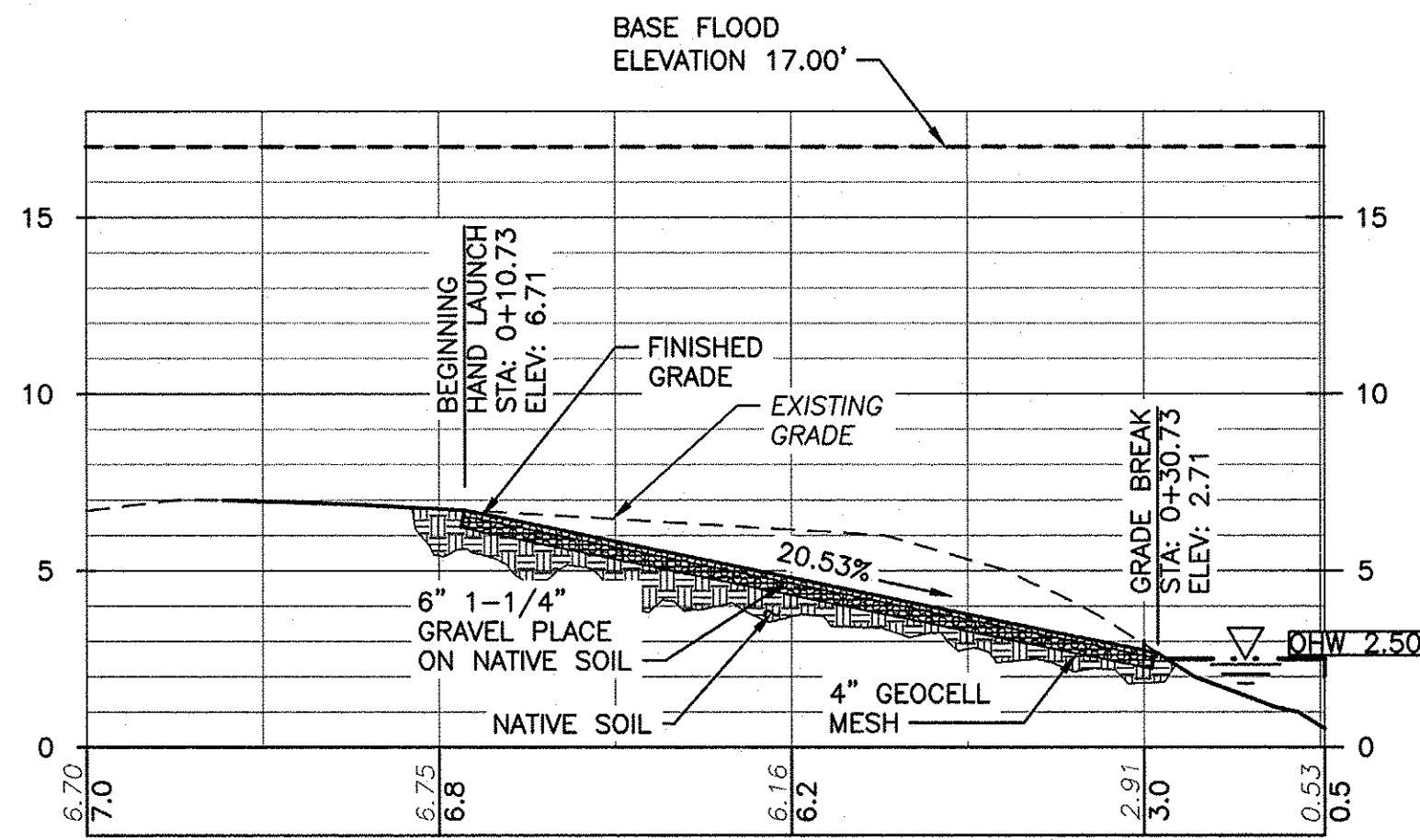
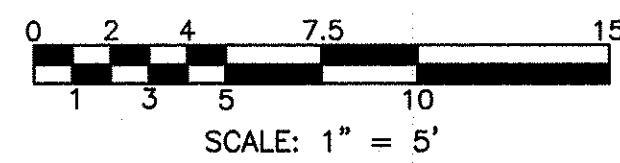


NORTH HAND LAUNCH PROFILE
SCALE: 1" = 5'

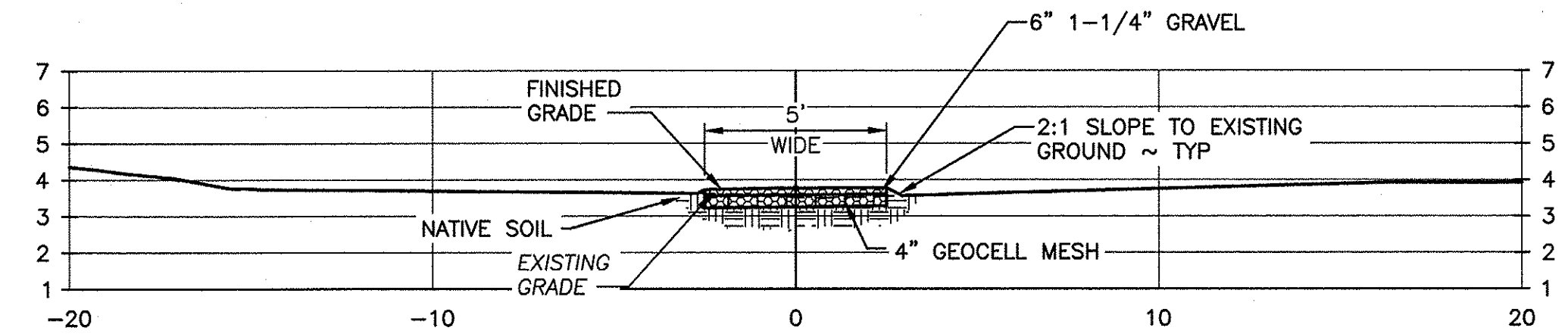
RAMPS				
POINT #	EASTING	NORTHING	ELEVATION	DESCRIPTION
1	1315041.48	359327.65	8.00	NORTH CONTROL POINT
2	1315035.94	359319.43	7.45	TOP OF NORTH HAND LAUNCH
3	1315021.89	359305.20	2.52	END OF NORTH HAND LAUNCH
5	1315128.84	359033.81	6.70	SOUTH CONTROL POINT
6	1315130.85	359043.63	6.02	TOP OF SOUTH HAND LAUNCH
7	1315134.88	359063.32	2.89	END OF SOUTH HAND LAUNCH



SOUTH HAND LAUNCH
SCALE: 1" = 5'

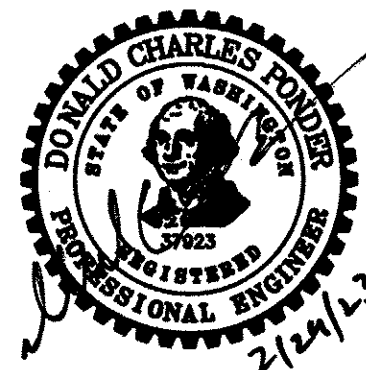


SOUTH HAND LAUNCH PROFILE
SCALE: 1" = 5'



HAND LAUNCH TYPICAL SECTION
SCALE: 1" = 4'

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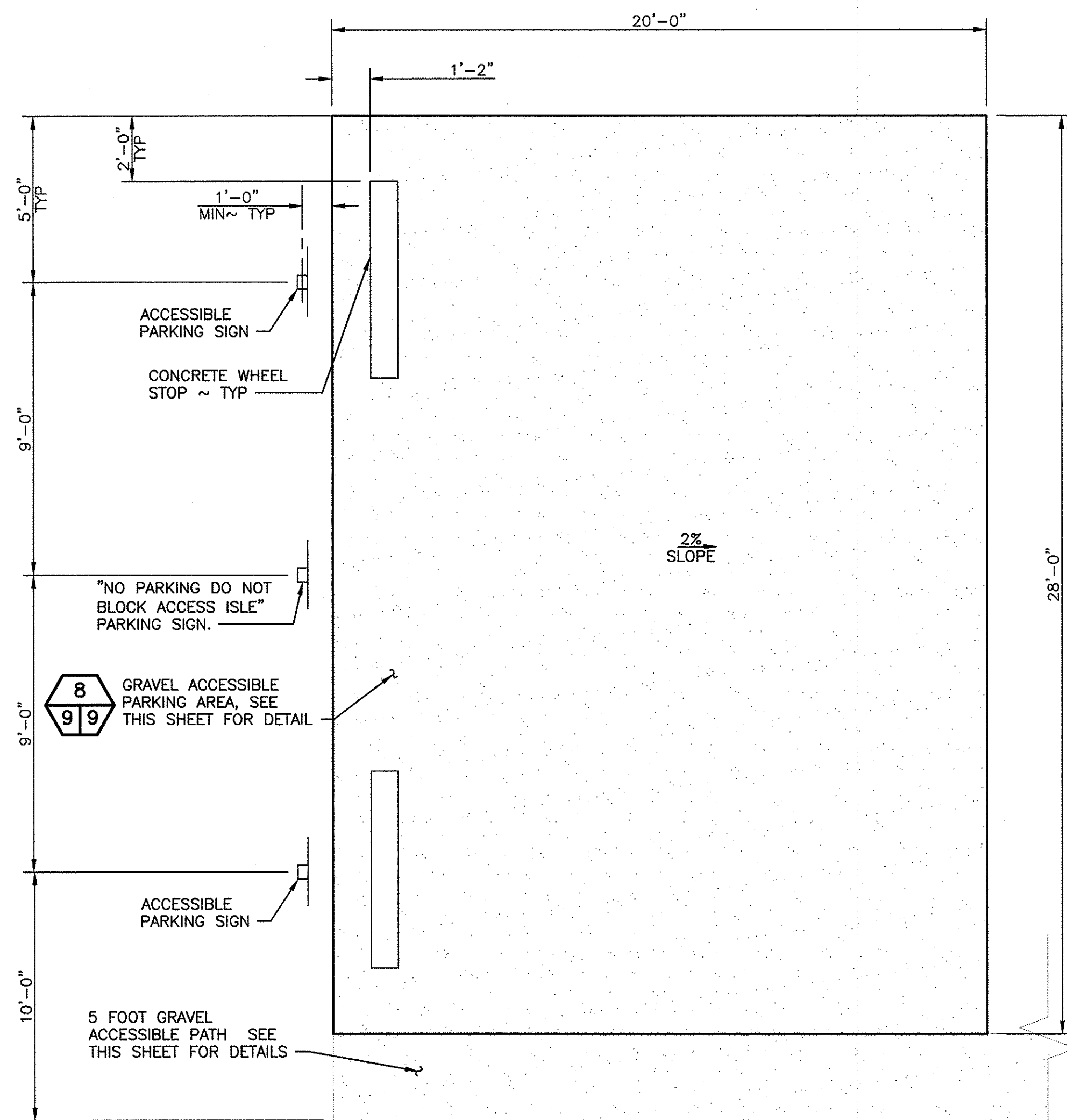
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HAND LAUNCH

HAND LAUNCH PLANS, PROFILES, TABLE AND SECTION

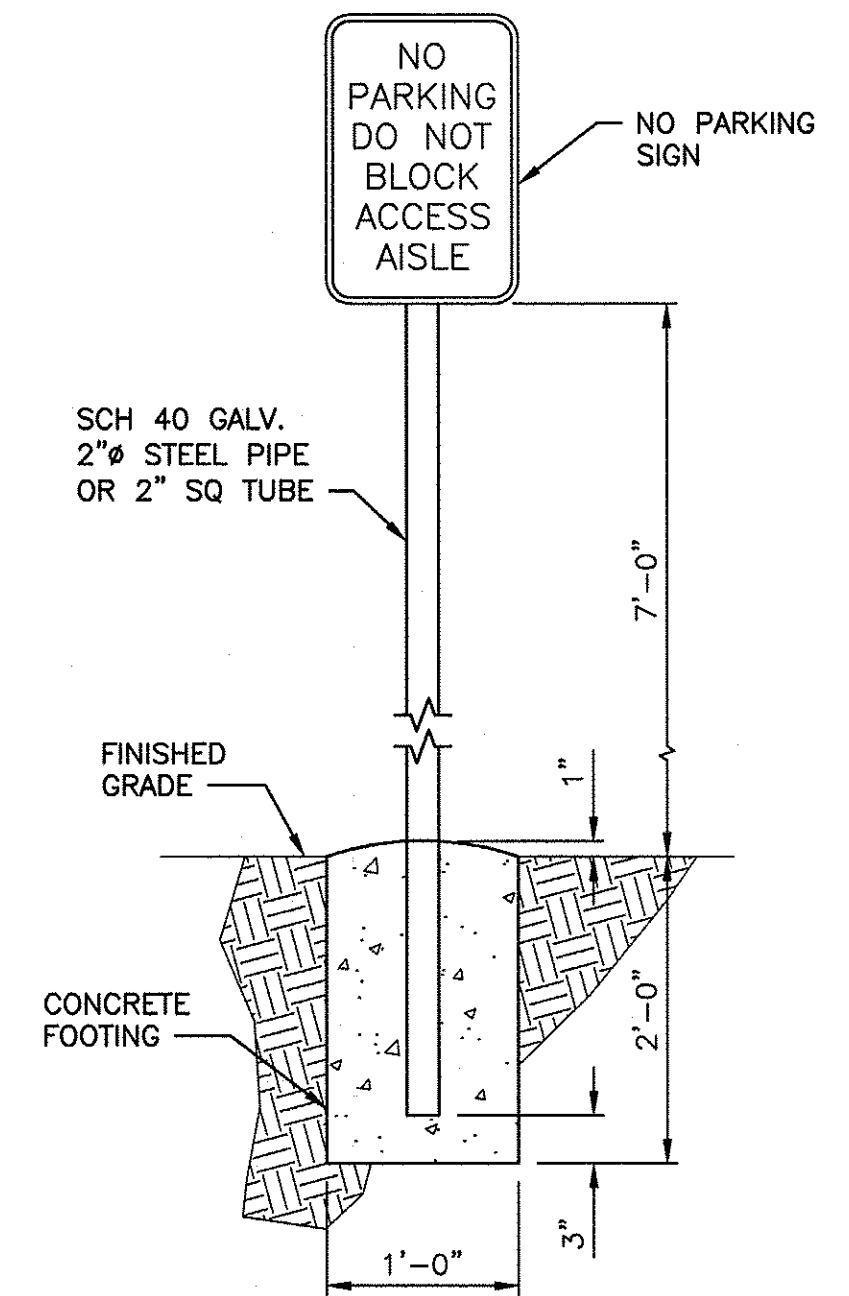
PROJECT NO.
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SHEET OF
8 **16**



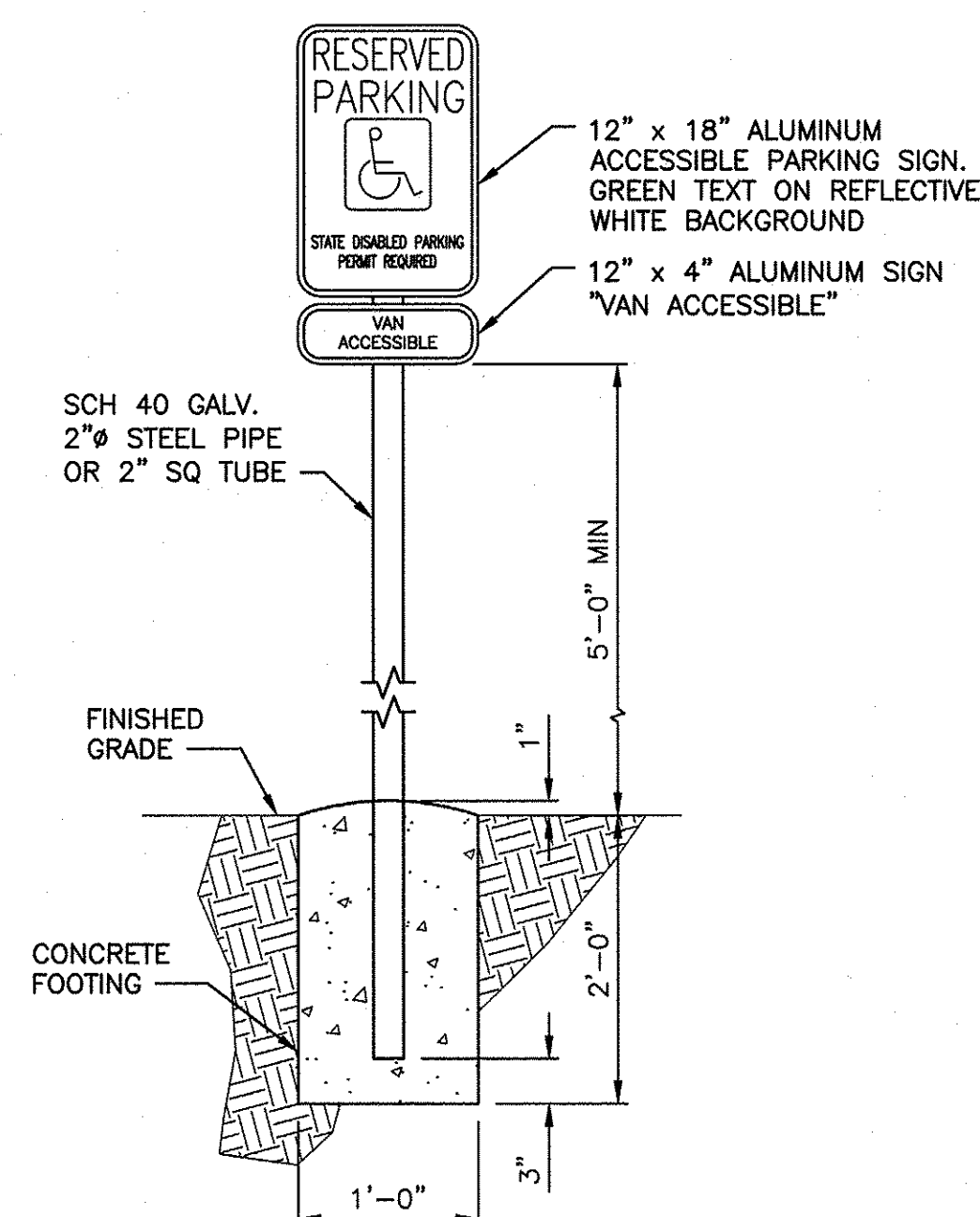
VAN ACCESSIBLE PARKING AREA
NOT TO SCALE

NOTE: 2% MAXIMUM SLOPE IN ALL DIRECTIONS.



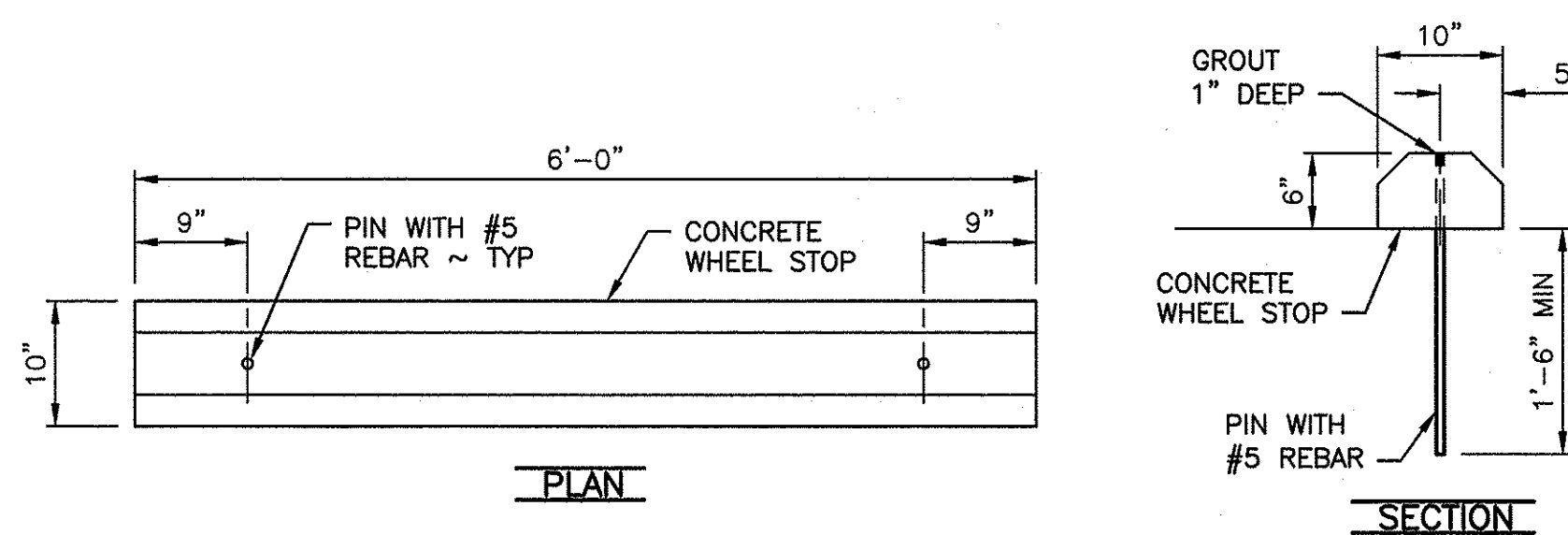
NO PARKING SIGN
NOT TO SCALE

NOTE: USE TAMPER RESISTANT NUTS TO ATTACH SIGNS TO POST.

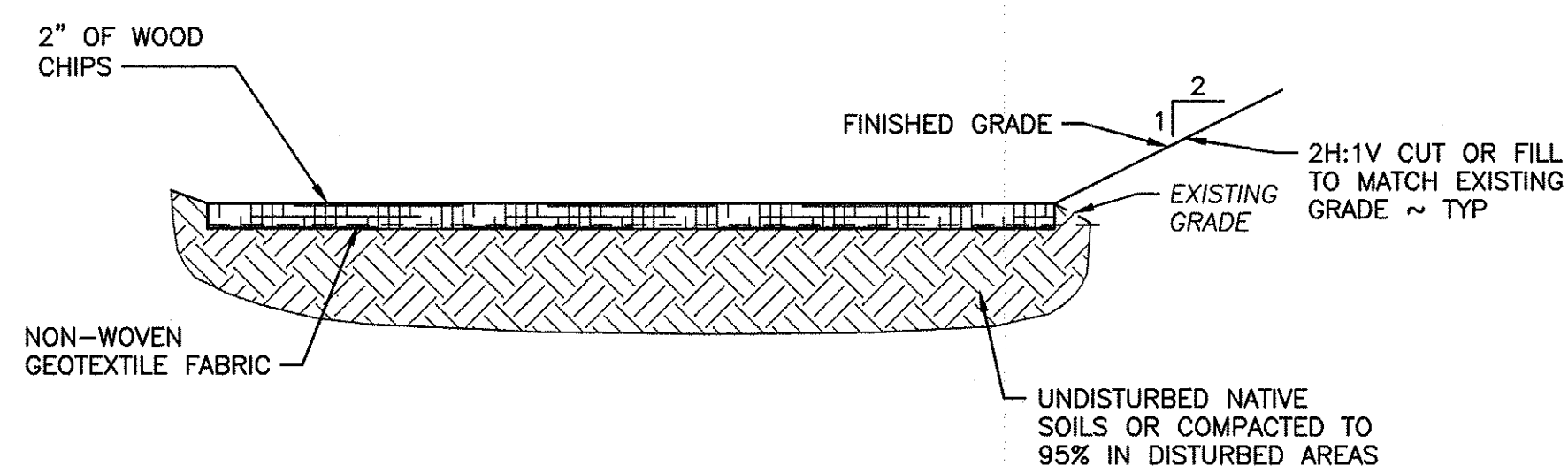


ACCESSIBLE PARKING SIGN
NOT TO SCALE

NOTE: USE TAMPER RESISTANT NUTS TO ATTACH SIGNS TO POST.

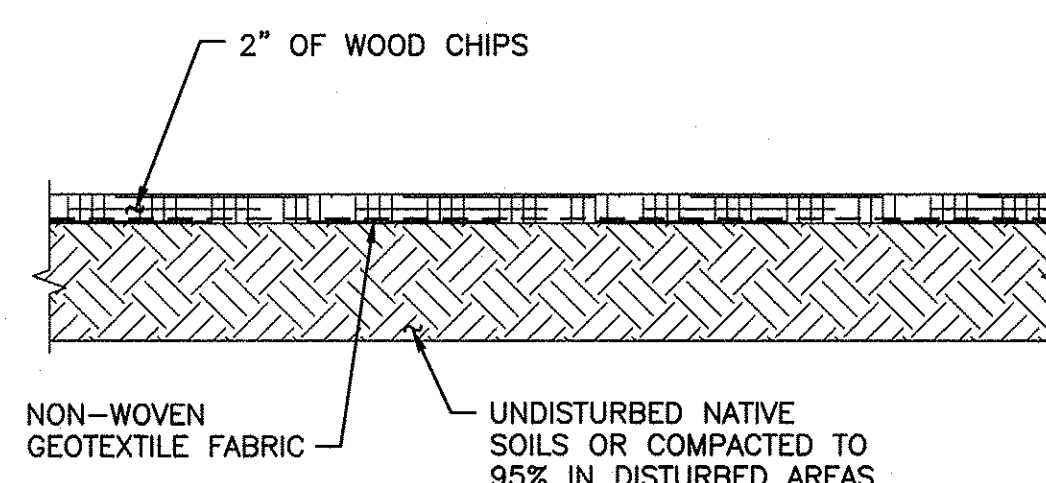


CONCRETE WHEEL STOP
NOT TO SCALE

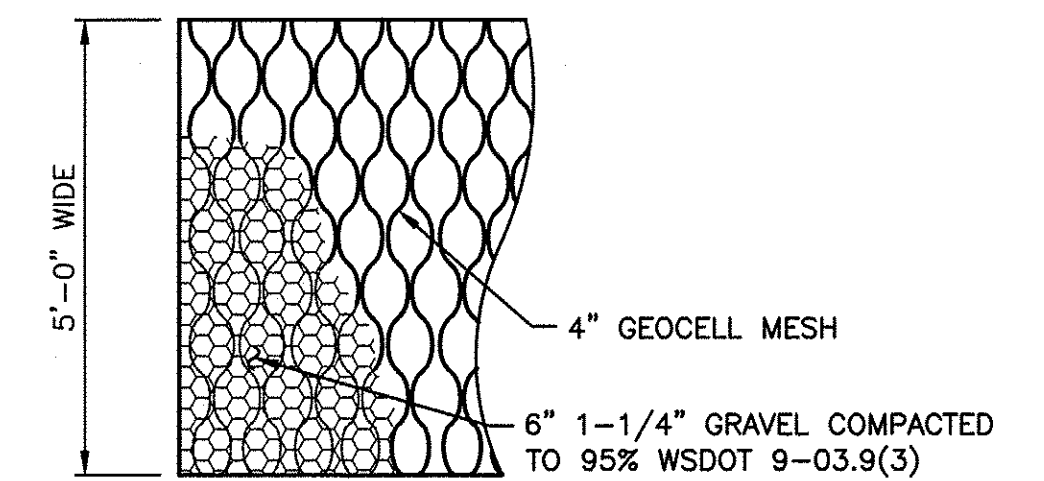


VIEW BLIND WOOD CHIP DETAIL
NOT TO SCALE

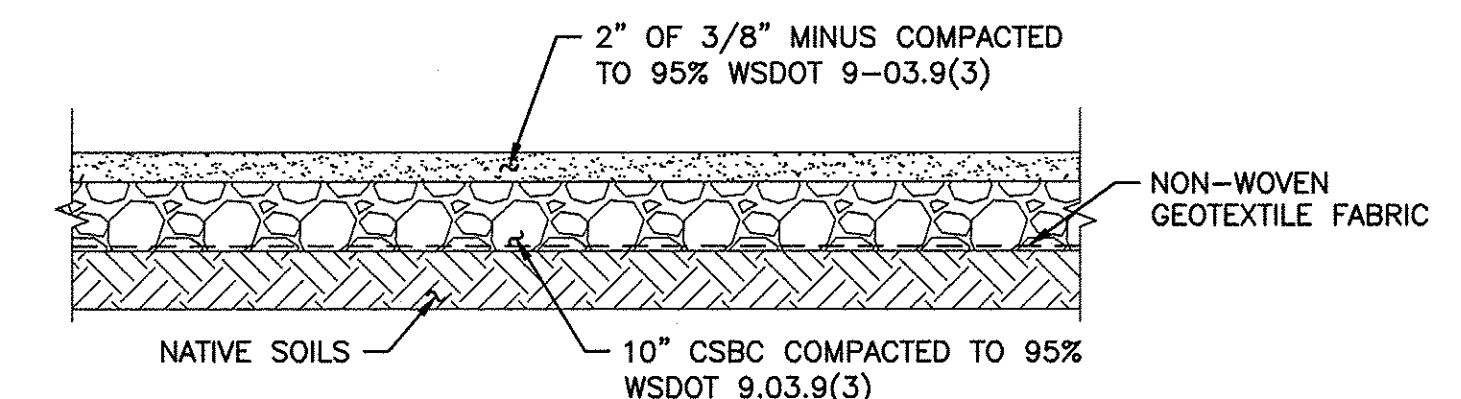
NOTE: BLIND NOT SHOWN FOR CLARITY.



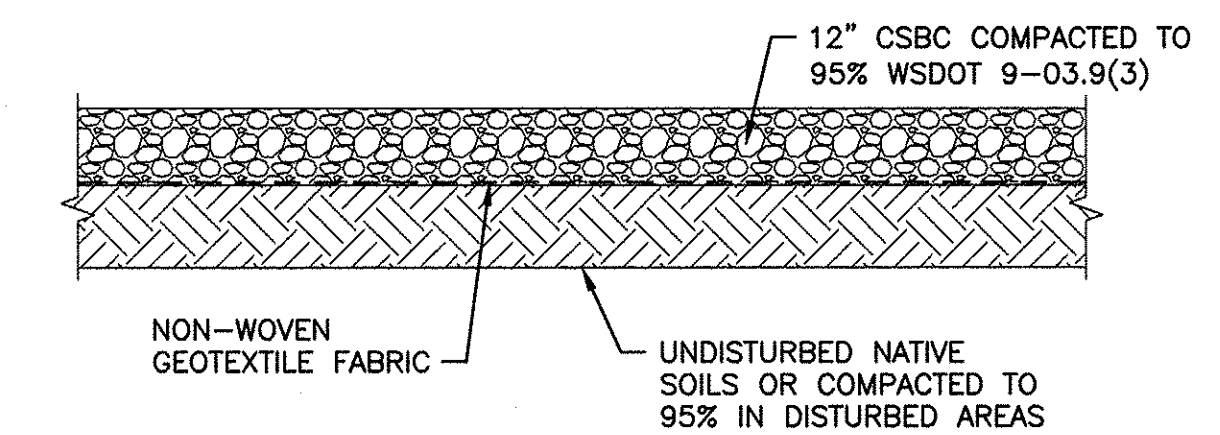
WOOD CHIP PATH DETAIL
NOT TO SCALE



GRAVEL HAND LAUNCH DETAIL
NOT TO SCALE

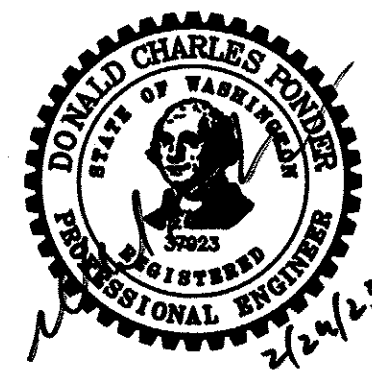


VAN ACCESSIBLE PARKING DETAIL
NOT TO SCALE



GRAVEL PARKING DETAIL
NOT TO SCALE

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE



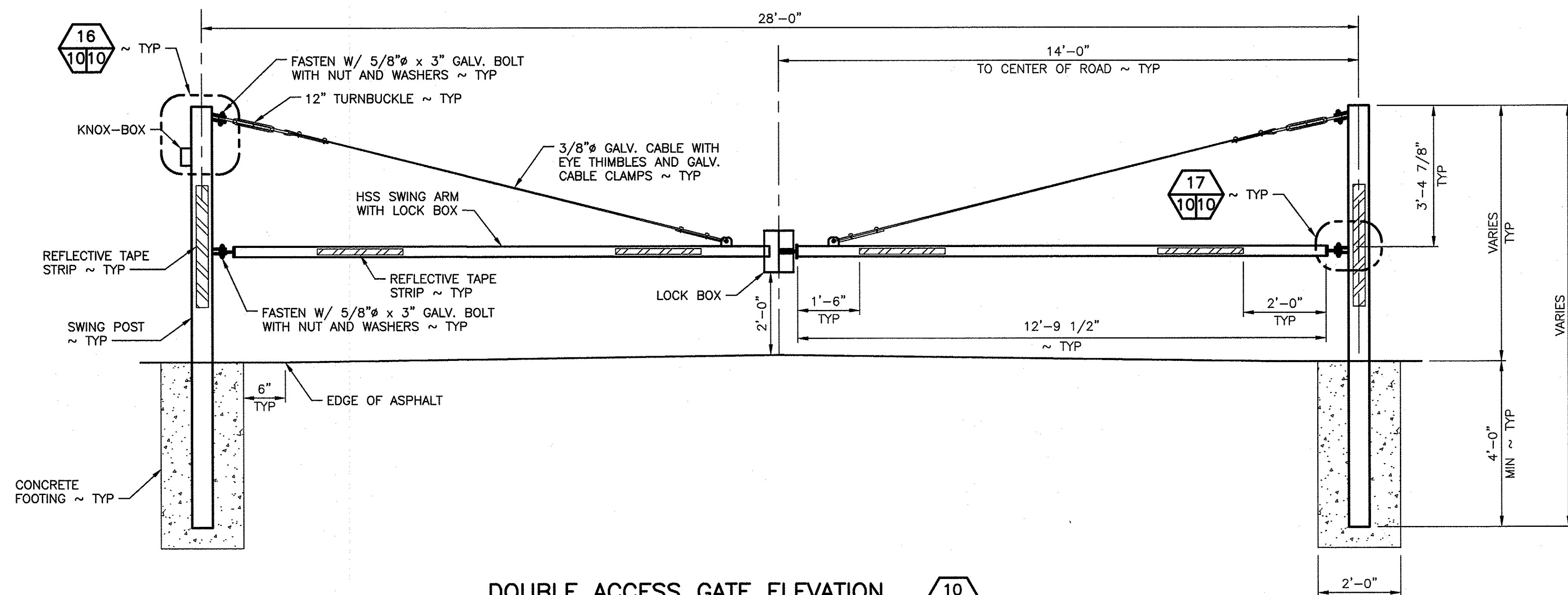
SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER	DATE	DESIGNED BY C. ALSTON	
PROGRAM	DATE	CHECKED BY D. SMITH	
		DRAWN BY D. HENNING	
		DATE 02/13/2023	

SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT

HAND LAUNCH
ACCESSIBLE PARKING, PARKING LOT, AND
PATHWAY DETAILS

PROJECT NO.
SH:R134:2019-2

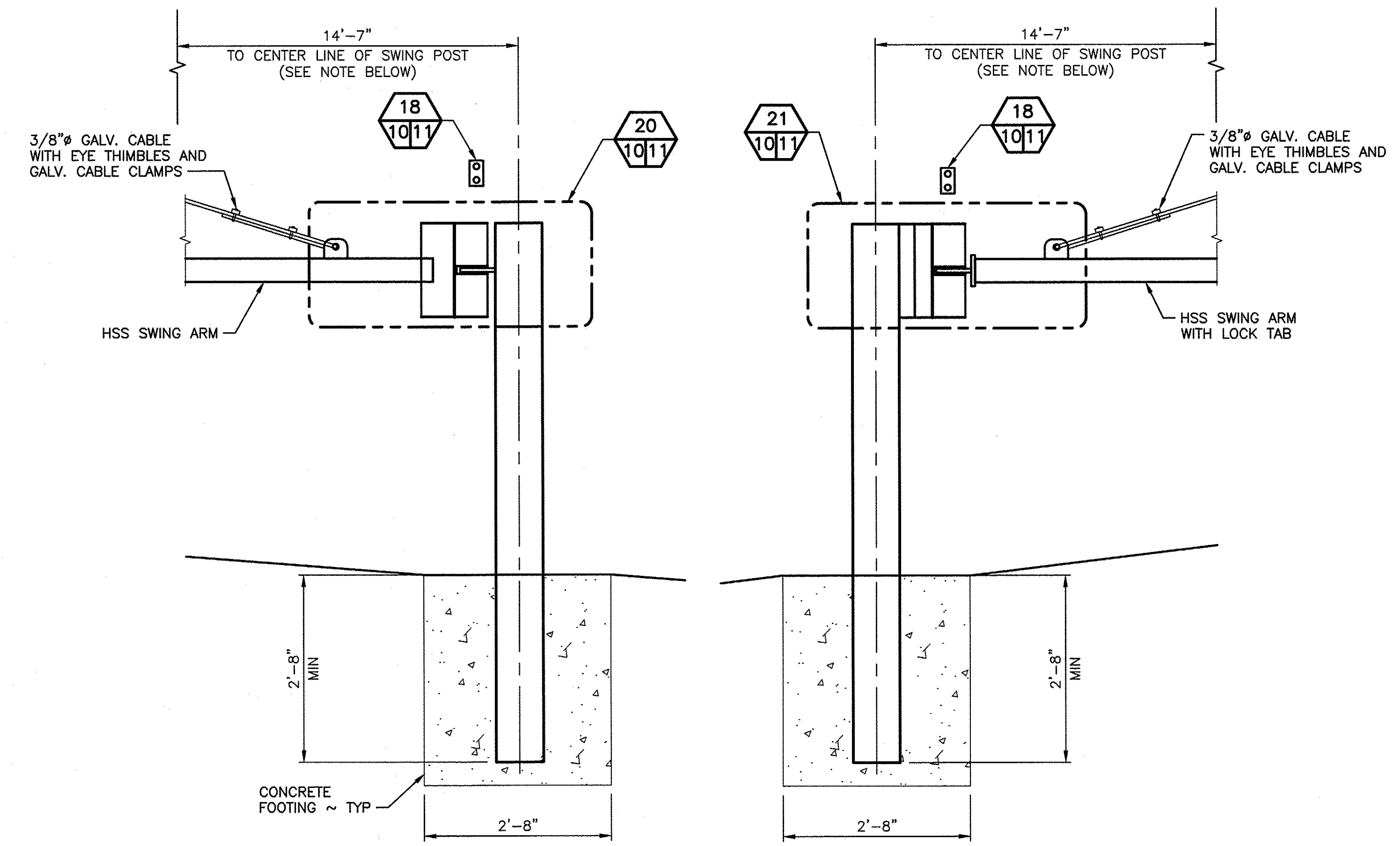
SHEET OF
9 16



DOUBLE ACCESS GATE ELEVATION 10
SCALE: 1/2" = 1'-0" 6/10

NOTE:
EDGE OF PAVEMENT ELEVATIONS ON EITHER SIDE OF ROADWAY MAY VARY. EXTEND LENGTH OF SWING POST (48" MIN BURY) AND LOCK POST (24" MIN BURY) AS REQUIRED ON LOW SIDE OF ROADWAY TO ACHIEVE LEVEL SWING.

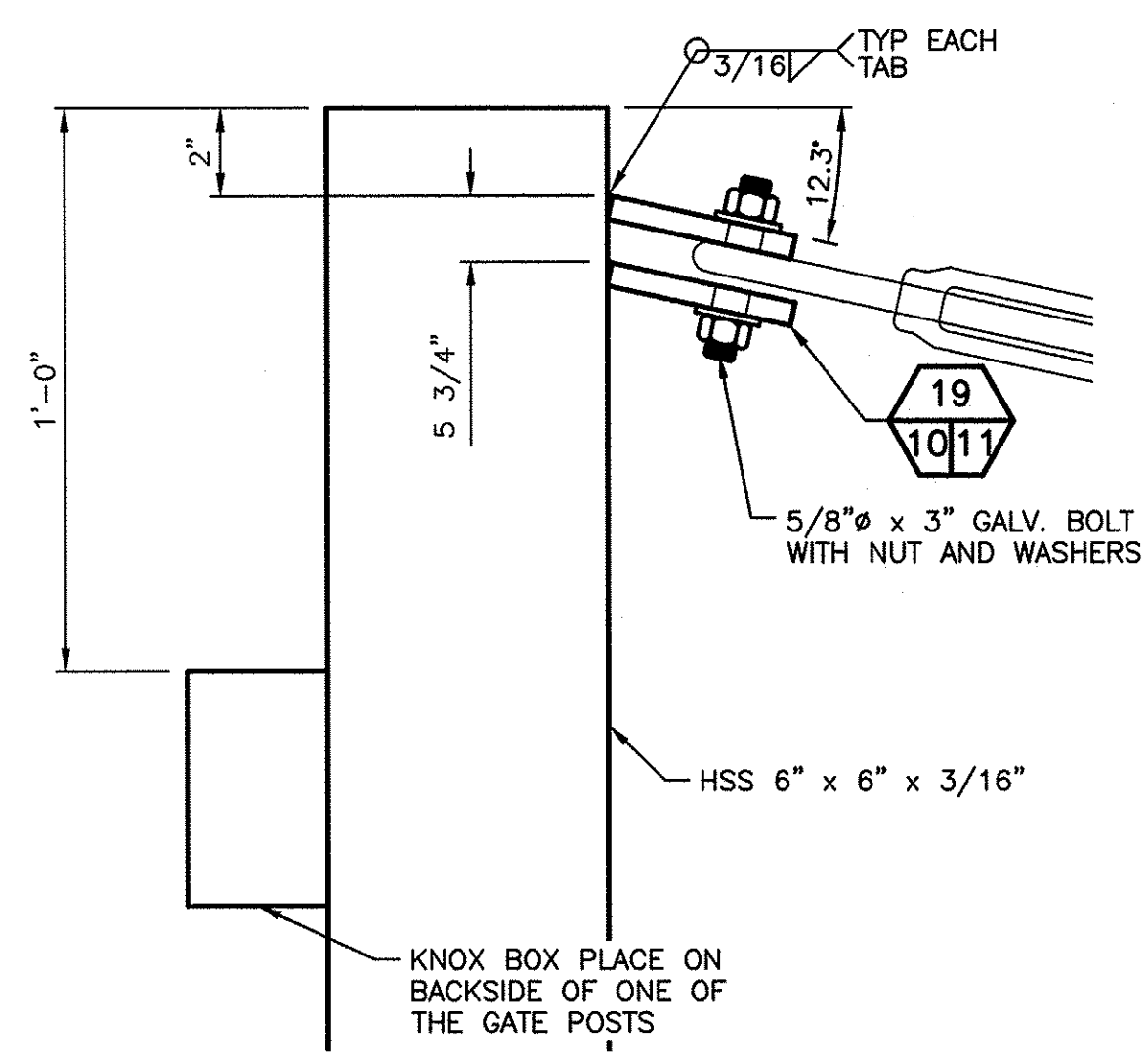
- NOTES:**
1. ALL STEEL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
 2. GATES THAT PIVOT SHALL OPEN IN THE SAME DIRECTION.
 3. BOTH SWING ARMS SHALL OPEN WHEN LOCK TUBE IS UNLOCKED.
 4. THE OWNER IS RESPONSIBLE TO MAINTAIN THE RAPID ENTRY DEVICES IN AN OPERABLE CONDITION AFTER INSTALLATION AND ACCEPTANCE BY THE COUNTY.
 5. KNOX-BOX 3200 WITH LIFT DOOR. MOUNTED 5' ABOVE GROUND IN ACCORDANCE WITH FIRE DISTRICT AND MANUFACTURER INSTRUCTIONS
 6. APPLY 4" WIDE x 36" LONG REFLECTIVE TAPE STRIPS AS SHOWN. EACH SIDE OF SWING POSTS. REFLECTIVE TAPE FROM McMASTER-CARR #9195T89 YELLOW/BLACK OR APPROVED EQUAL.
 7. APPLY 3" WIDE x 24" LONG REFLECTIVE TAPE STRIPS AS SHOWN. EACH SIDE OF SWING ARMS. REFLECTIVE TAPE FROM McMASTER-CARR #9195T76 YELLOW/BLACK OR APPROVED EQUAL.



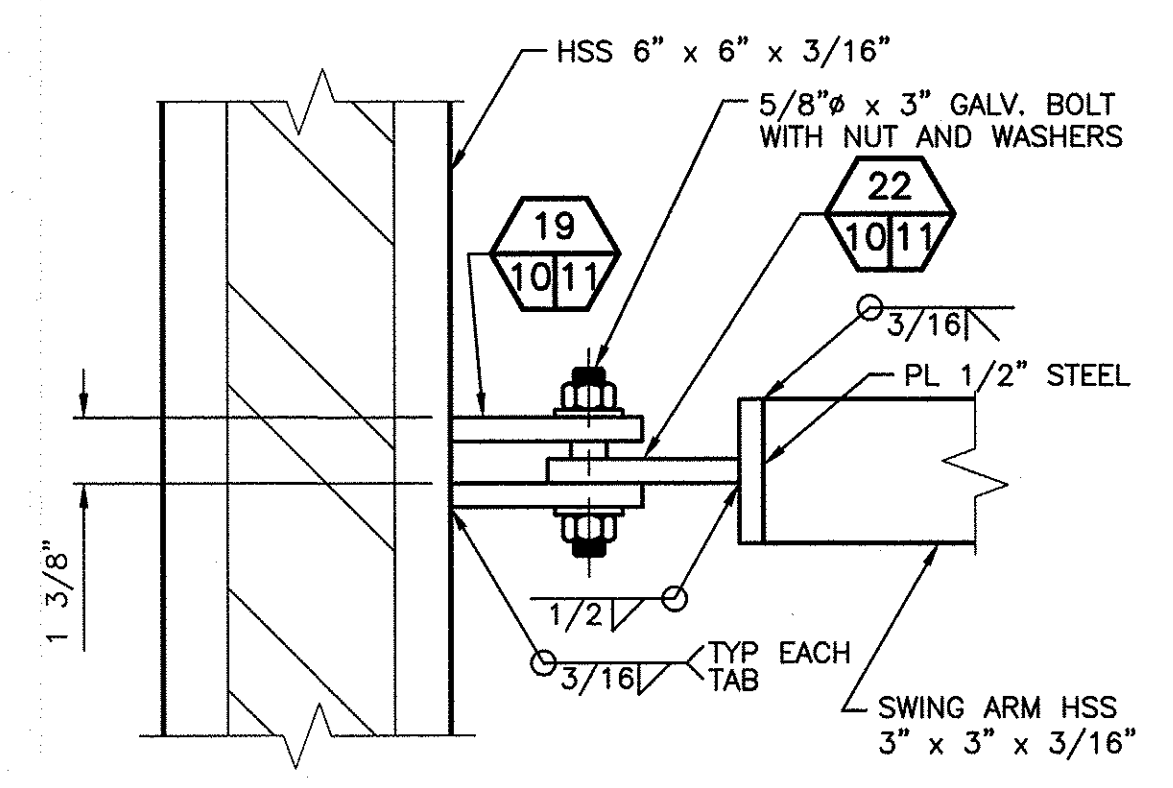
LOCK TAB POST
SCALE: 1" = 1'-0"

LOCK BOX POST
SCALE: 1" = 1'-0"

NOTE:
FIELD VERIFY SWING POST TO CENTER OF LOCK TAB POST AND LOCK BOX POST DIMENSIONS.

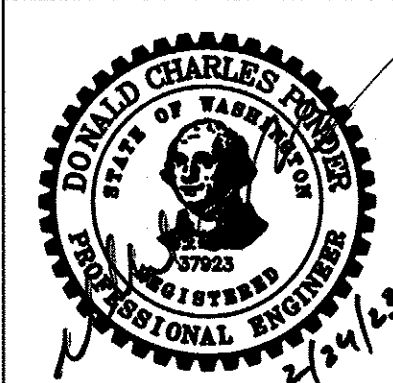


SWING POST TOP 16
SCALE: 3" = 1'-0" 10/10



SWING POST HINGE 17
SCALE: 3" = 1'-0" 10/10

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

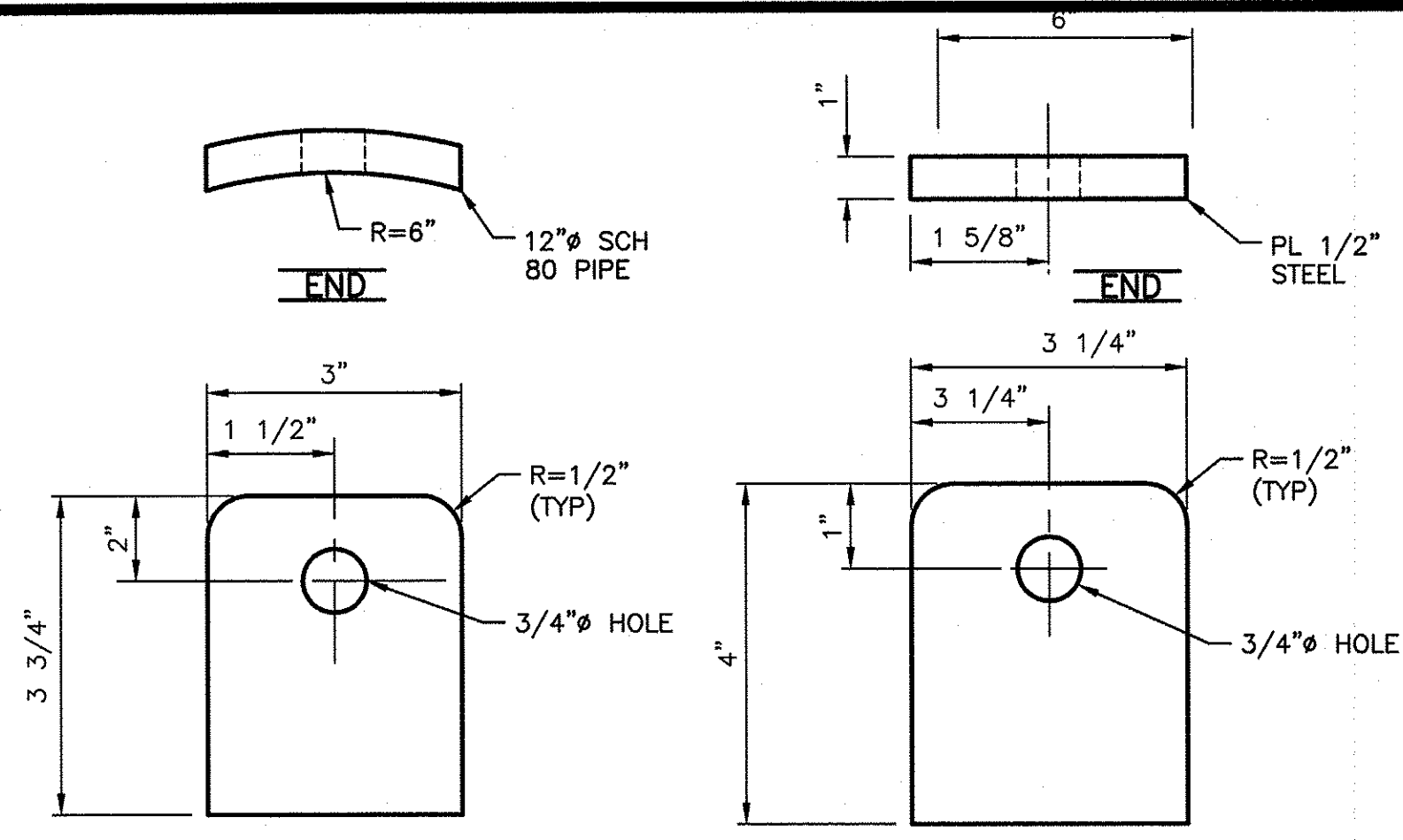


SYM	DATE	REVISION DESCRIPTION	BY
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PROGRAM		DATE:	

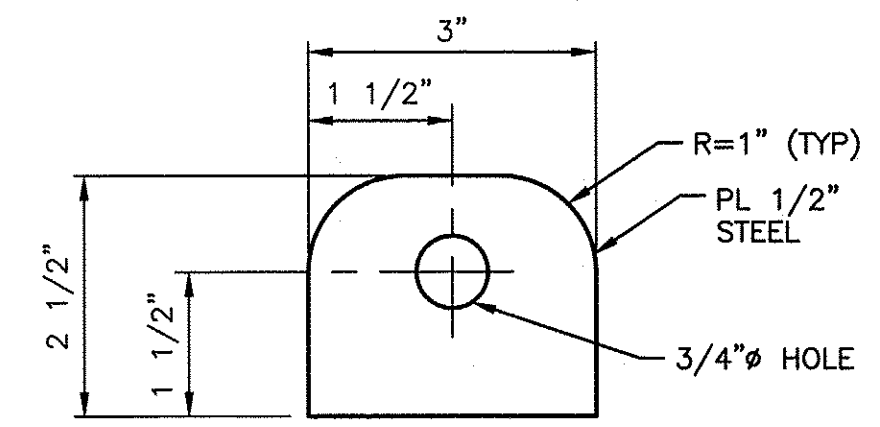
DESIGNED BY C. ALSTON
CHECKED BY D. SMITH
DRAWN BY D. HENNING
DATE 02/13/2023

SNOQUALMIE WILDLIFE AREA-EBEY ISLAND UNIT
HAND LAUNCH
ACCESS GATE DETAILS AND ELEVATIONS

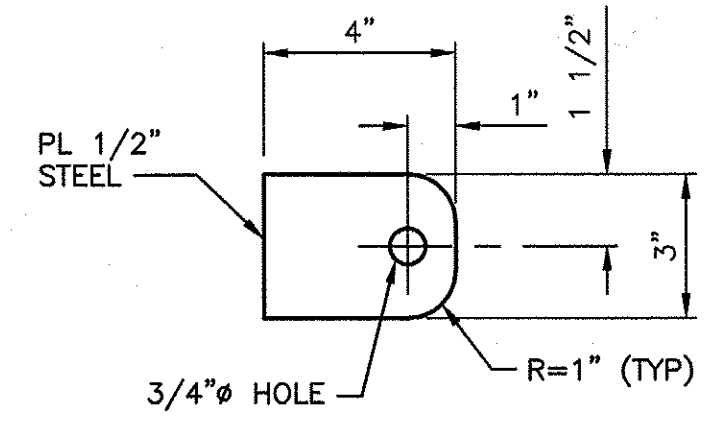
PROJECT NO. SH:R134:2019-2	
SHEET 10	OF 16



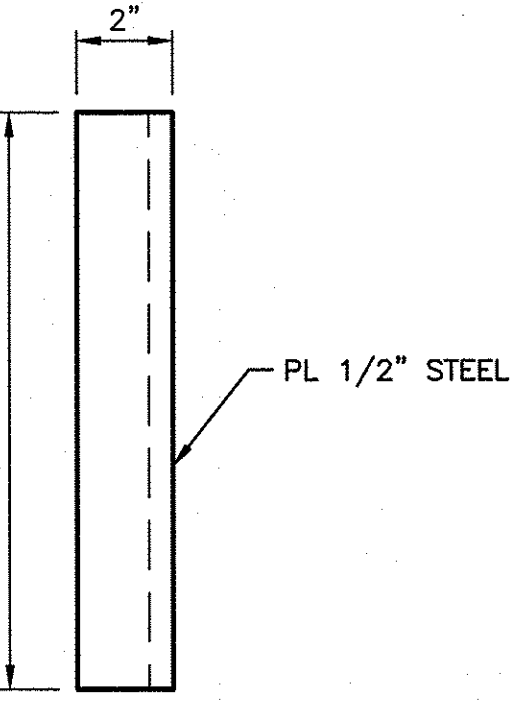
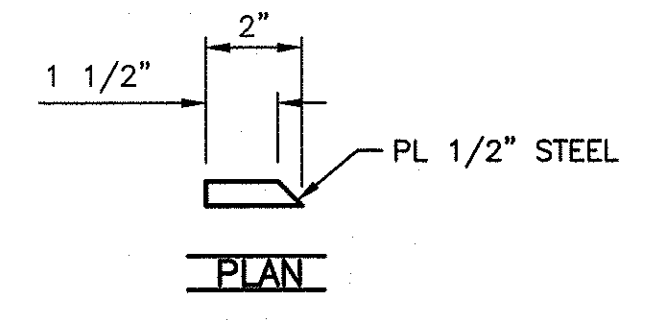
TURN BUCKLE TABS
NOT TO SCALE
19
1011



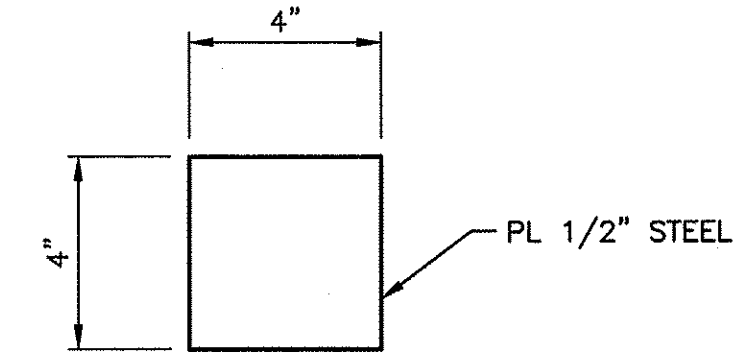
CABLE TAB
NOT TO SCALE
24
1111



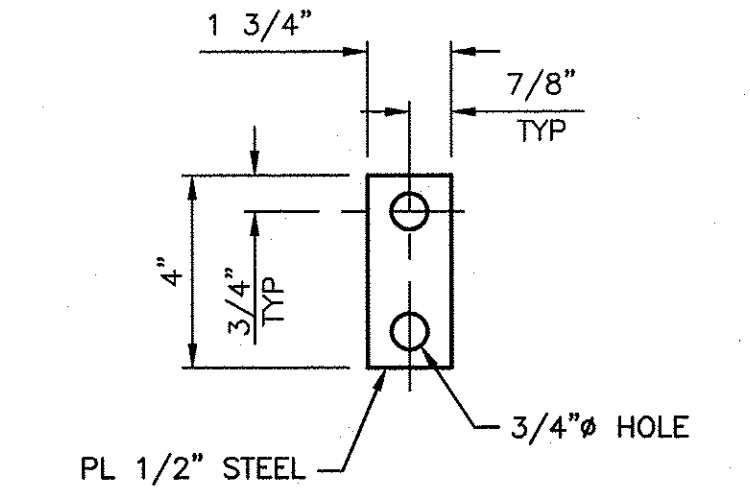
PIVOT TAB
SCALE: 3" = 1'-0"
22
1011



SUPPORT PLATE
SCALE: 3" = 1'-0"
23
1111

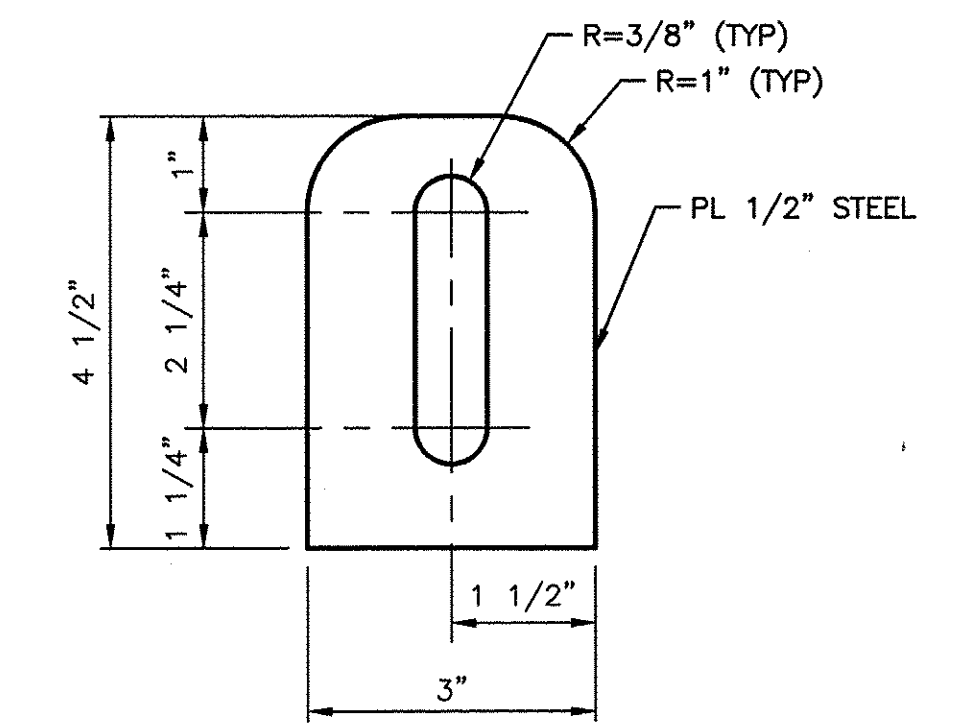


SUPPORT PLATE
SCALE: 3" = 1'-0"
26
1111

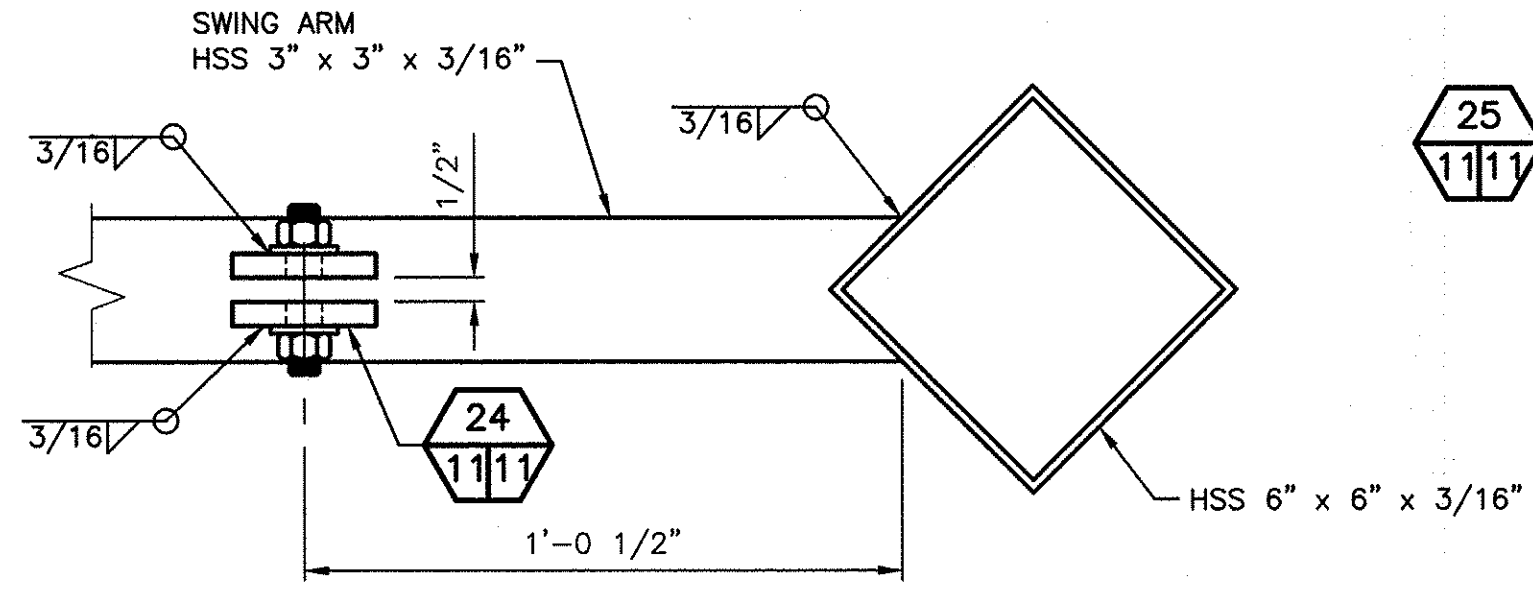


LOCK PIN
SCALE: 3" = 1'-0"
18
1011

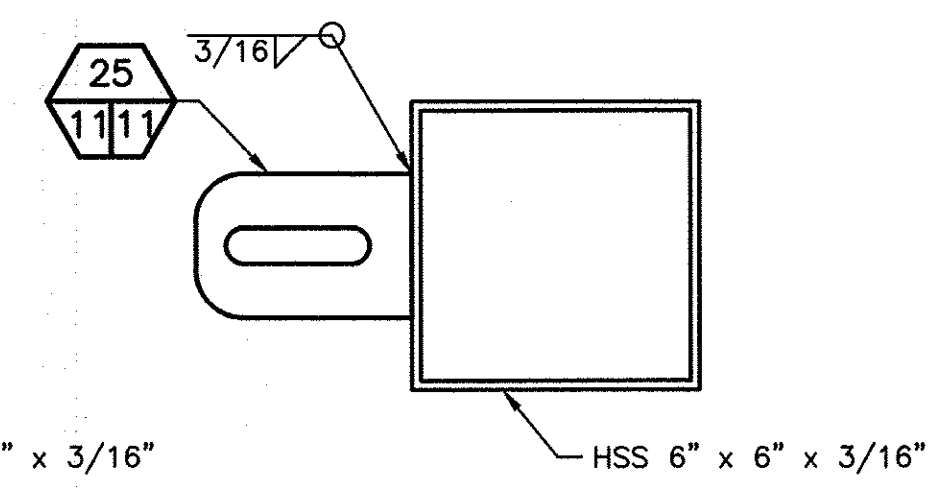
NOTE:
SUITABLE FOR TWO LOCKS



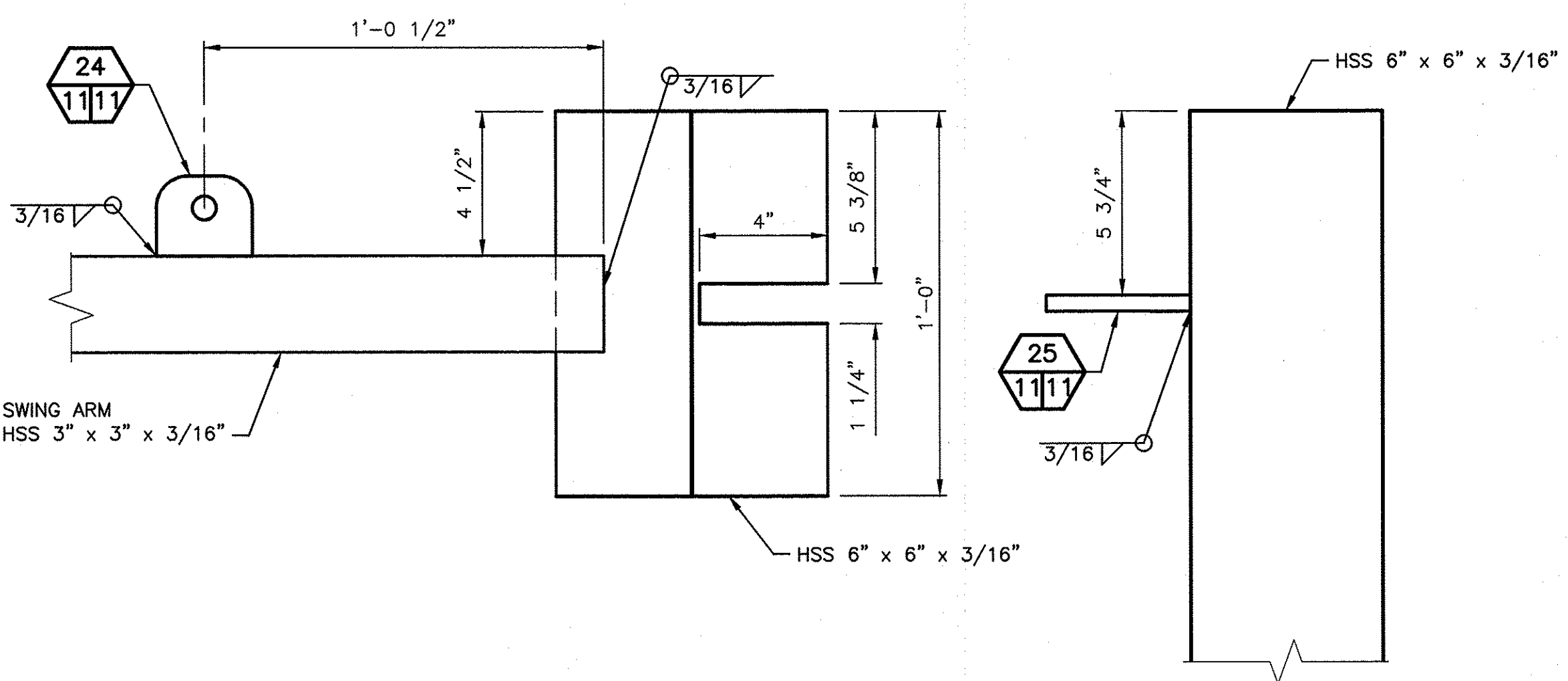
LOCK TAB
NOT TO SCALE
25
1111



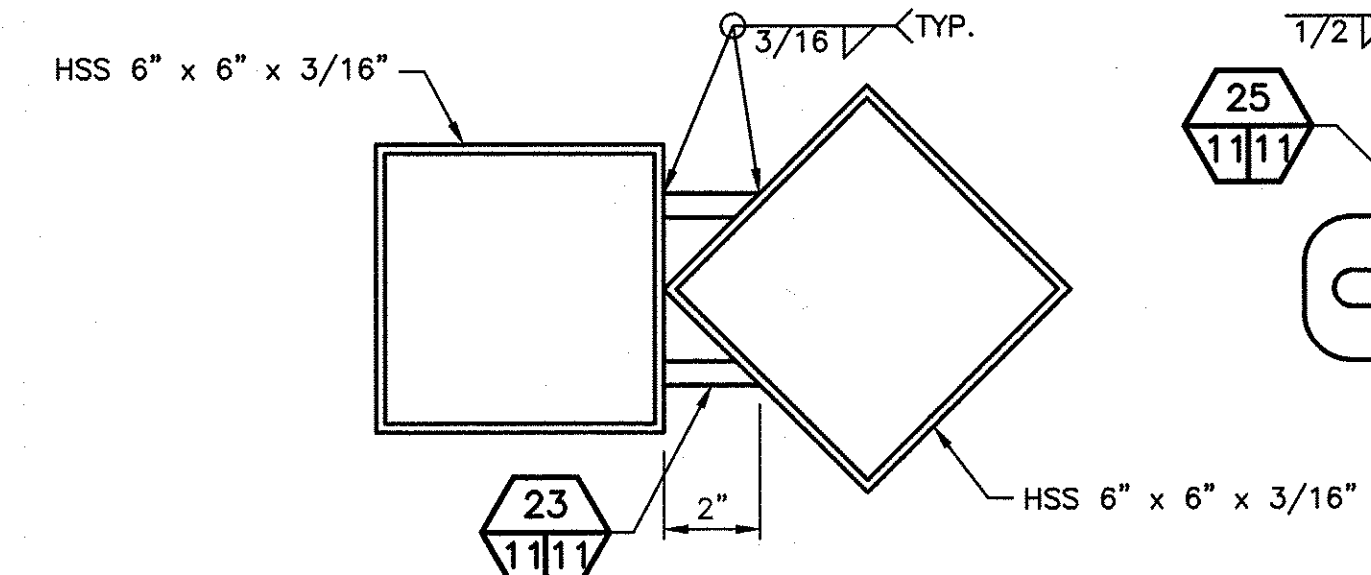
PLAN



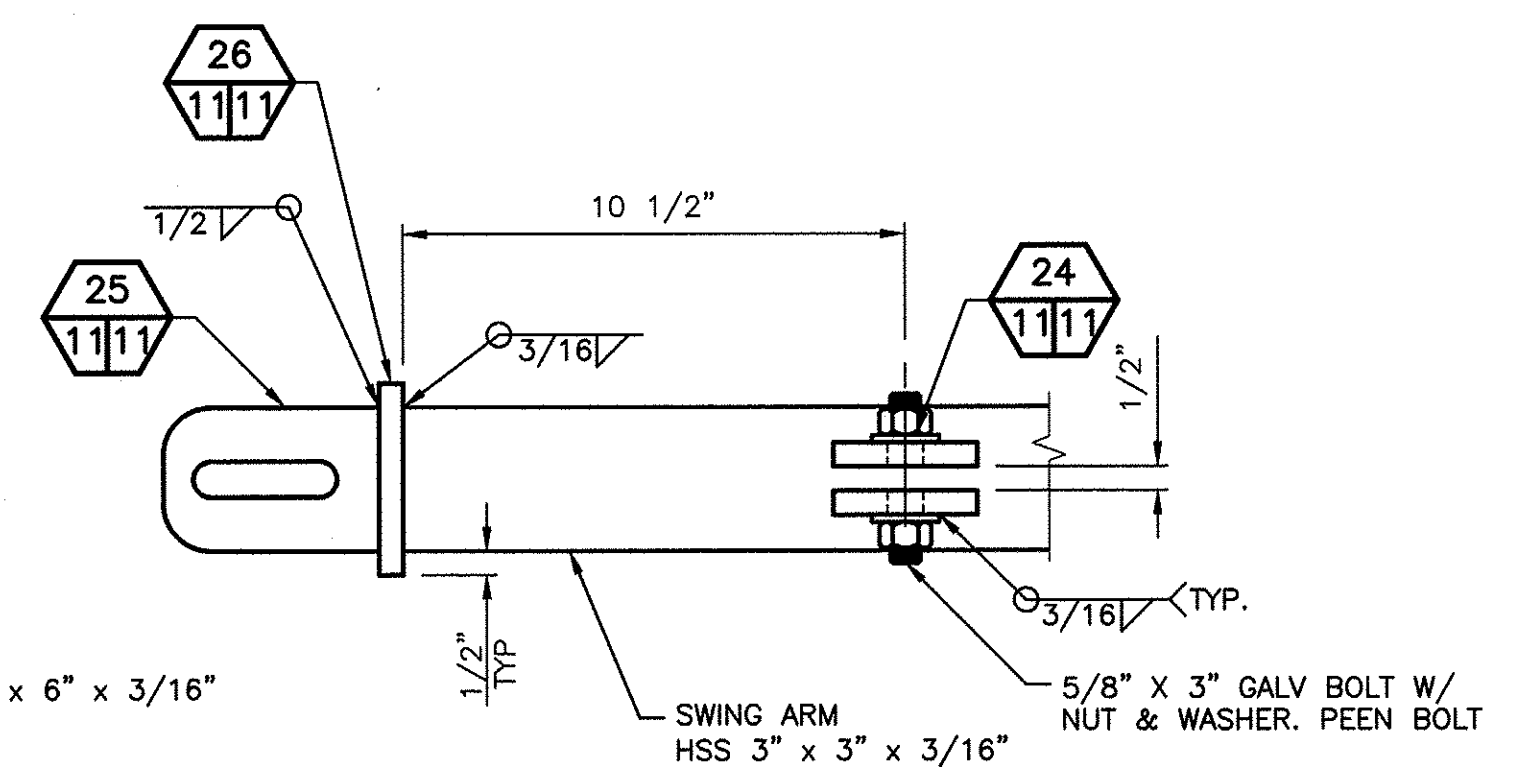
SWING ARM WITH LOCK BOX & LOCK TAB POST
SCALE: 3" = 1'-0"
20
1011



ELEVATION



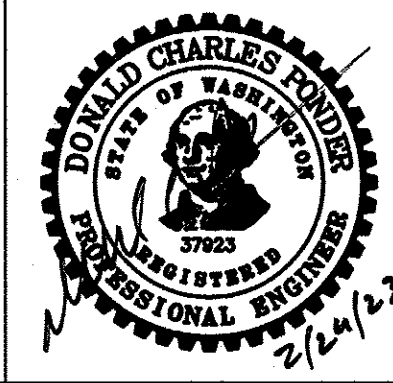
PLAN



ELEVATION

SWING ARM WITH LOCK TAB & LOCK BOX POST
SCALE: 3" = 1'-0"
21
1011

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE



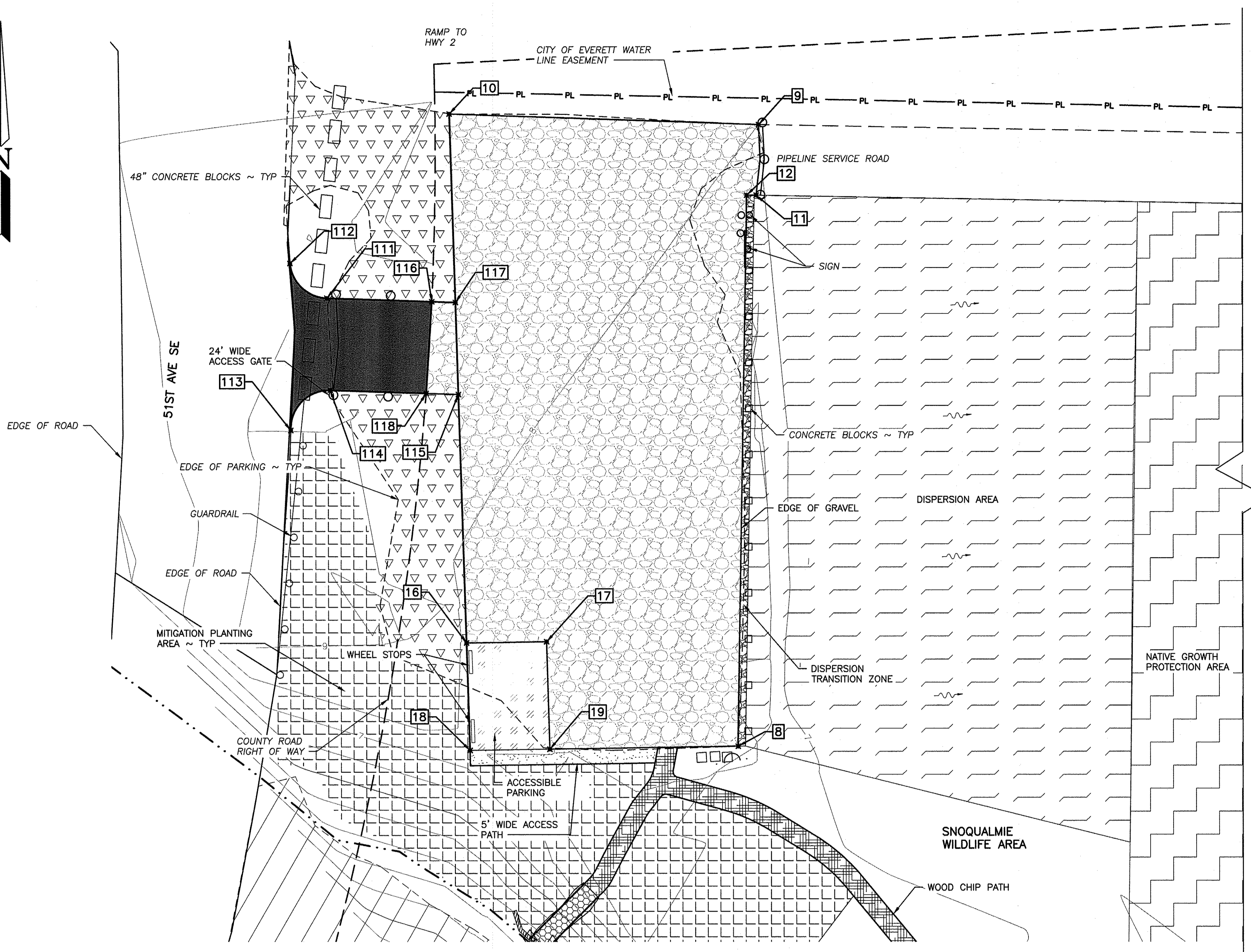
SYM	DATE	REVISION DESCRIPTION	BY
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CHIEF ENGINEER		DATE:	
PROGRAM		DATE:	

DESIGNED BY C. ALSTON
CHECKED BY D. SMITH
DRAWN BY D. HENNING
DATE 02/13/2023

SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT
HAND LAUNCH
ACCESS GATE DETAILS AND ELEVATIONS 2

PROJECT NO.
SH:R134:2019-2

SHEET OF
11 16



GRAVEL PARKING LOT PLAN

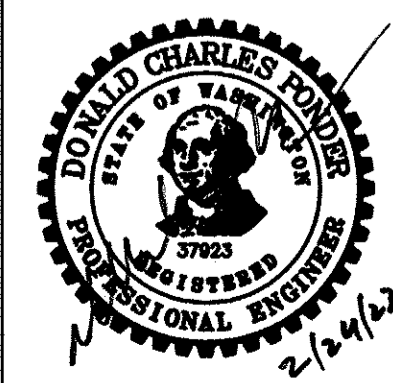
SCALE: 1" = 16'

PARKING LOT				
POINT #	EASTING	NORTHING	ELEVATION	DESCRIPTION
8	1315074.39	359356.94	7.26	SOUTH EAST CORNER
9	1315079.92	359518.84	8.00	NORTH EAST CORNER
10	1314999.16	359521.63	8.50	NORTH WEST CORNER
11	1315079.26	359500.46	7.92	EDGE OF PARKING
12	1315076.76	359500.45	7.93	EDGE OF PARKING
16	1315003.52	359383.85	7.88	EDGE OF ACCESSIBLE PARKING
17	1315024.41	359384.17	7.73	EDGE OF ACCESSIBLE PARKING
18	1315004.41	359355.87	7.75	EDGE OF ACCESSIBLE PARKING
19	1315025.23	359356.19	7.60	EDGE OF ACCESSIBLE PARKING
111	1314967.16	359473.64	7.26	ENTRY END OF CURVE
112	1314957.54	359482.70	7.26	BEGINNING OF ENTRY
113	1314957.70	359439.17	9.00	BEGINNING OF ENTRY
114	1314968.02	359449.62	8.75	END OF CURVE
115	1315001.47	359448.51	8.17	END OF ENTRY AT PARKING
116	1314994.54	359472.73	8.17	END OF ASPHALT
117	1315000.71	359472.52	8.28	END OF ENTRY
118	1314993.06	359448.79	8.27	END OF ASPHALT

LEGEND

- 1-1/4" GRAVEL
- 3/8" MINUS GRAVEL
- ASPHALT (HMA)
- CSBC
- DISPERSION FLOW PATH
- HOG FUEL
- NATIVE GROWTH PROTECTION AREA
- SHEETFLOW
- VAN ACCESSIBLE PARKING
- WETLAND AREA
- WOOD CHIPS
- DISPERSION TRANSITION ZONE
- MITIGATION PLANTING AREA

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE



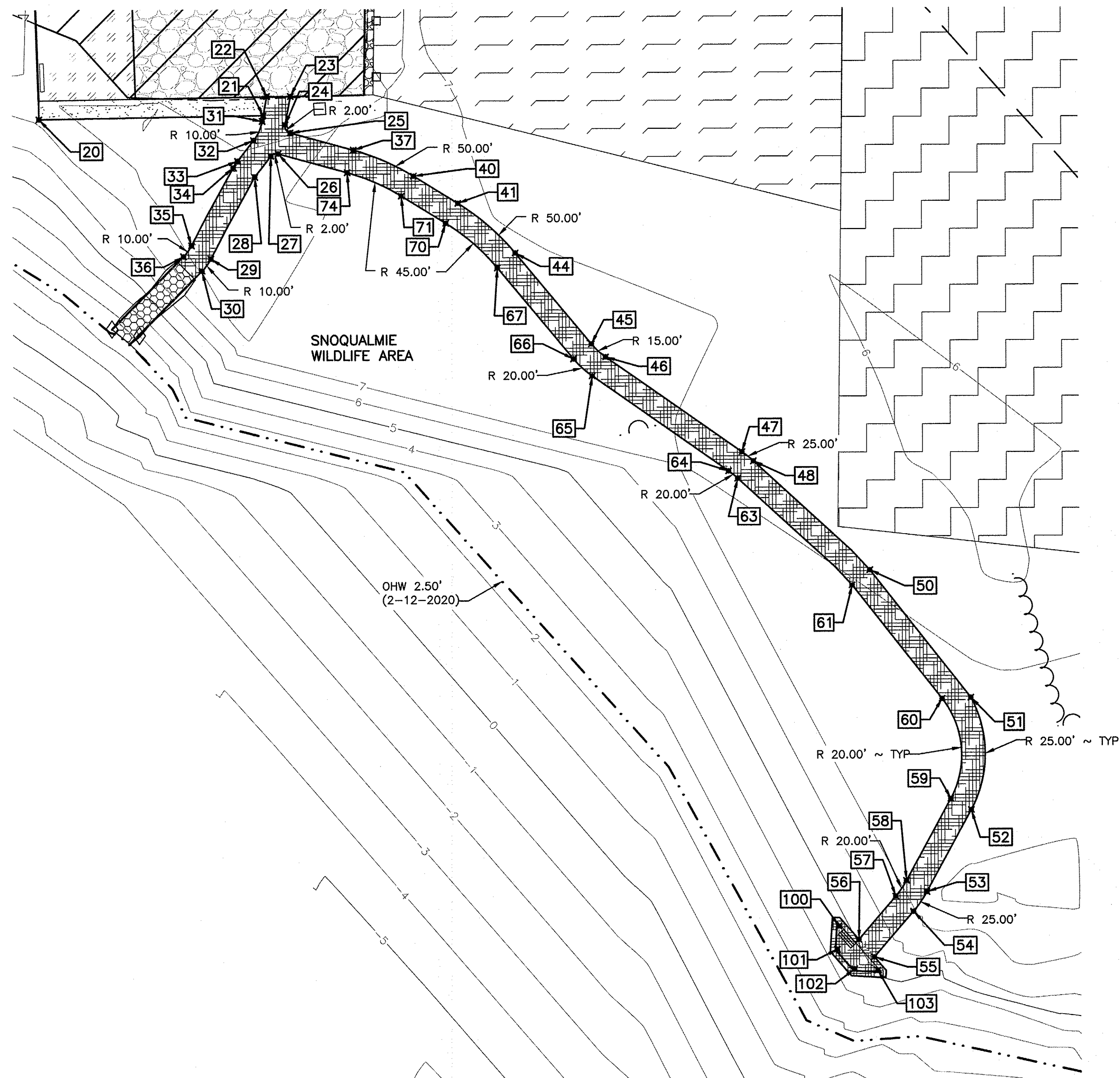
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		DRAWN BY D. HENNING	
		DATE 02/13/2023	

SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT

HAND LAUNCH
GRAVEL PARKING LOT POINT PLAN AND TABLE

PROJECT NO.
SH:R134:2019-2

SHEET OF
12 OF 16

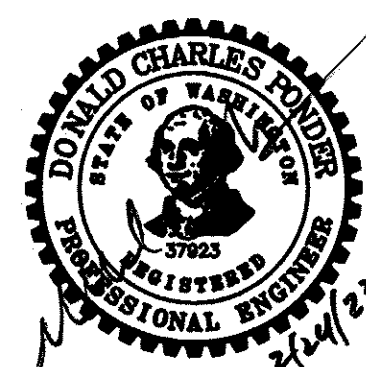


WOOD CHIP PATHWAY POINT PLAN
SCALE: 1" = 16'

PATHWAY				
POINT #	EASTING	NORTHING	ELEVATION	DESCRIPTION
20	1315004.47	359351.87	7.19	END OF ACCESSIBLE WALKWAY
21	1315052.66	359352.61	7.60	END OF ACCESSIBLE WALKWAY AT PATH
22	1315053.43	359356.72	7.40	BEGINNING OF PATH AT LOT
23	1315058.51	359356.70	7.36	BEGINNING OF PATH AT LOT
24	1315057.37	359350.61	7.78	PATHWAY BEGINNING OF CORNER
25	1315058.45	359348.89	7.92	PATHWAY END OF CORNER
26	1315055.85	359344.42	8.00	PATHWAY END OF CORNER
27	1315054.27	359343.90	8.00	PATHWAY CORNER
28	1315050.78	359339.40	8.00	PATHWAY CORNER
29	1315041.28	359321.91	8.00	PATHWAY CURVE
30	1315039.38	359319.32	8.00	PATHWAY CURVE
31	1315052.43	359351.38	7.66	BEGINNING OF CURVE
32	1315050.56	359347.26	7.88	END OF CURVE
33	1315047.09	359342.86	8.00	BEGINNING OF CURVE
34	1315046.16	359341.45	8.00	END OF CURVE
35	1315037.13	359324.77	8.00	BEGINNING OF CURVE
36	1315035.41	359322.42	7.84	END OF CURVE
37	1315071.98	359345.16	7.77	BEGINNING OF CURVE
40	1315084.88	359339.55	7.15	END OF CURVE
41	1315094.39	359333.71	7.10	BEGINNING OF CURVE
44	1315106.68	359323.03	7.08	END OF CURVE
45	1315122.97	359303.40	7.06	BEGINNING OF CURVE
46	1315125.99	359300.60	7.05	END OF CURVE
47	1315155.21	359280.11	6.71	BEGINNING OF CURVE
48	1315157.67	359278.14	6.67	END OF CURVE
50	1315182.58	359254.73	6.86	END OF CURVE
51	1315204.17	359227.29	7.18	BEGINNING OF CURVE
52	1315204.18	359203.24	7.73	END OF CURVE
53	1315194.57	359185.67	7.58	BEGINNING OF CURVE
54	1315191.65	359181.45	6.93	END OF CURVE
55	1315183.20	359171.67	5.22	END OF PATH
56	1315179.90	359175.44	5.06	END OF PATH
57	1315187.86	359184.71	6.67	END OF CURVE
58	1315190.18	359188.06	7.18	BEGINNING OF CURVE
59	1315199.79	359205.64	7.61	END OF CURVE
60	1315198.00	359227.05	7.23	BEGINNING OF CURVE
61	1315178.78	359251.48	7.02	END OF CURVE
63	1315154.30	359274.44	6.84	END OF CURVE
64	1315152.34	359276.01	6.83	BEGINNING OF CURVE
65	1315123.12	359296.51	7.12	END OF CURVE
66	1315119.12	359300.21	7.14	BEGINNING OF CURVE
67	1315102.84	359319.84	7.17	END OF CURVE
70	1315091.77	359329.45	7.26	BEGINNING OF CURVE
71	1315082.26	359335.29	7.38	END OF CURVE
74	1315070.65	359340.34	7.79	BEGINNING OF CURVE

VIEWING BLIND				
POINT #	EASTING	NORTHING	ELEVATION	DESCRIPTION
100	1315175.60	359178.33	4.71	VIEWING BLIND POST
101	1315175.27	359173.34	4.34	VIEWING BLIND POST
102	1315178.96	359169.14	4.52	VIEWING BLIND POST
103	1315183.95	359168.81	4.93	VIEWING BLIND POST

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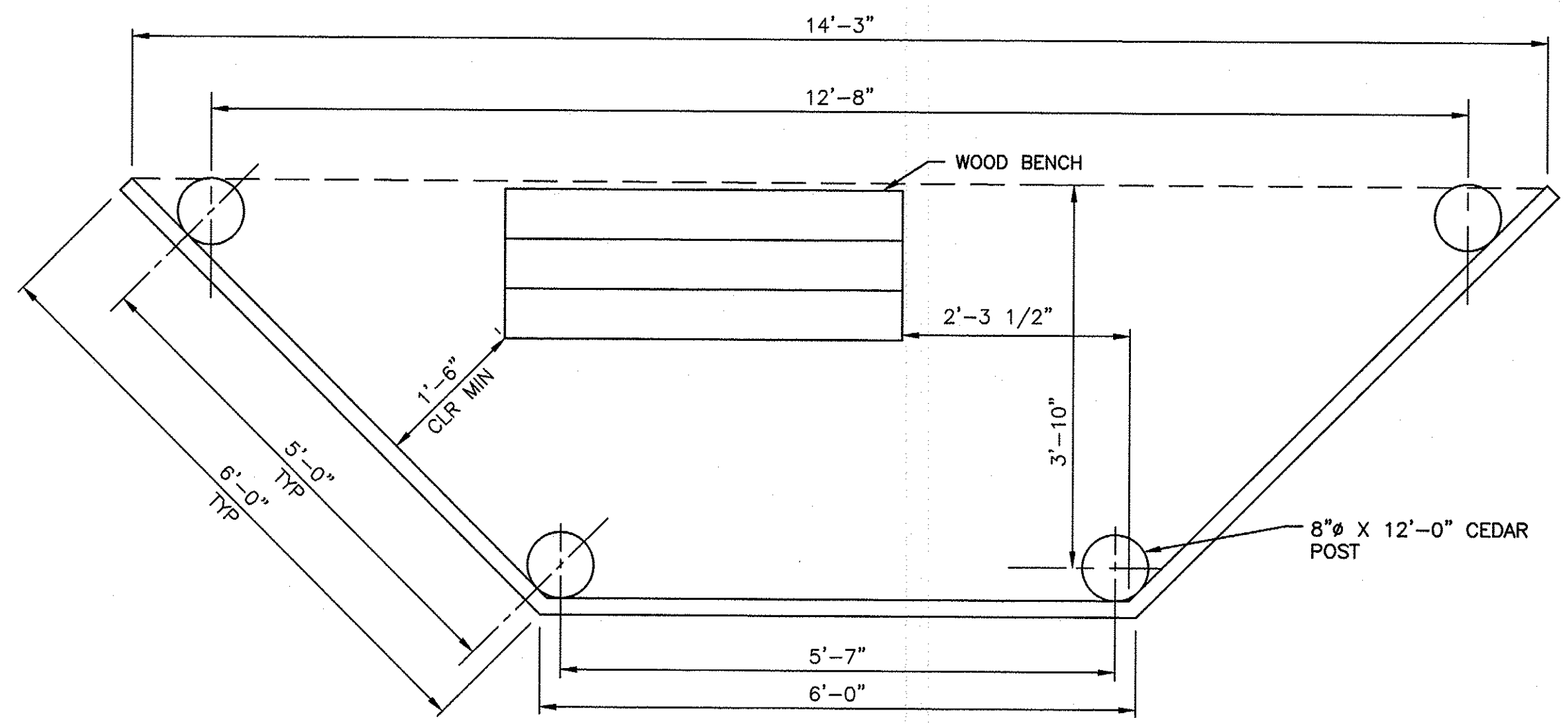
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SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT

HAND LAUNCH
PATHWAY PLAN AND TABLE

PROJECT NO.
SH:R134:2019-2

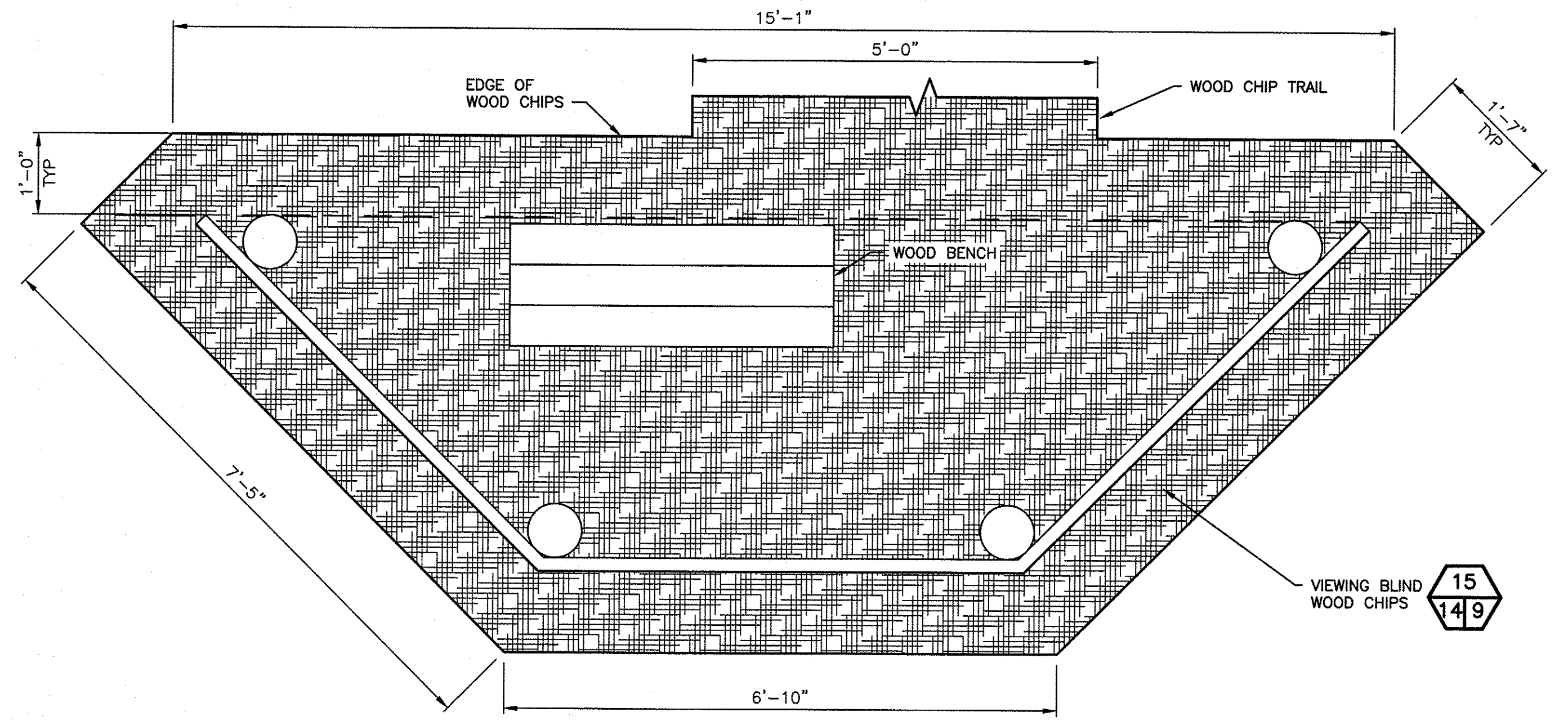
SHEET 13 OF 16



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

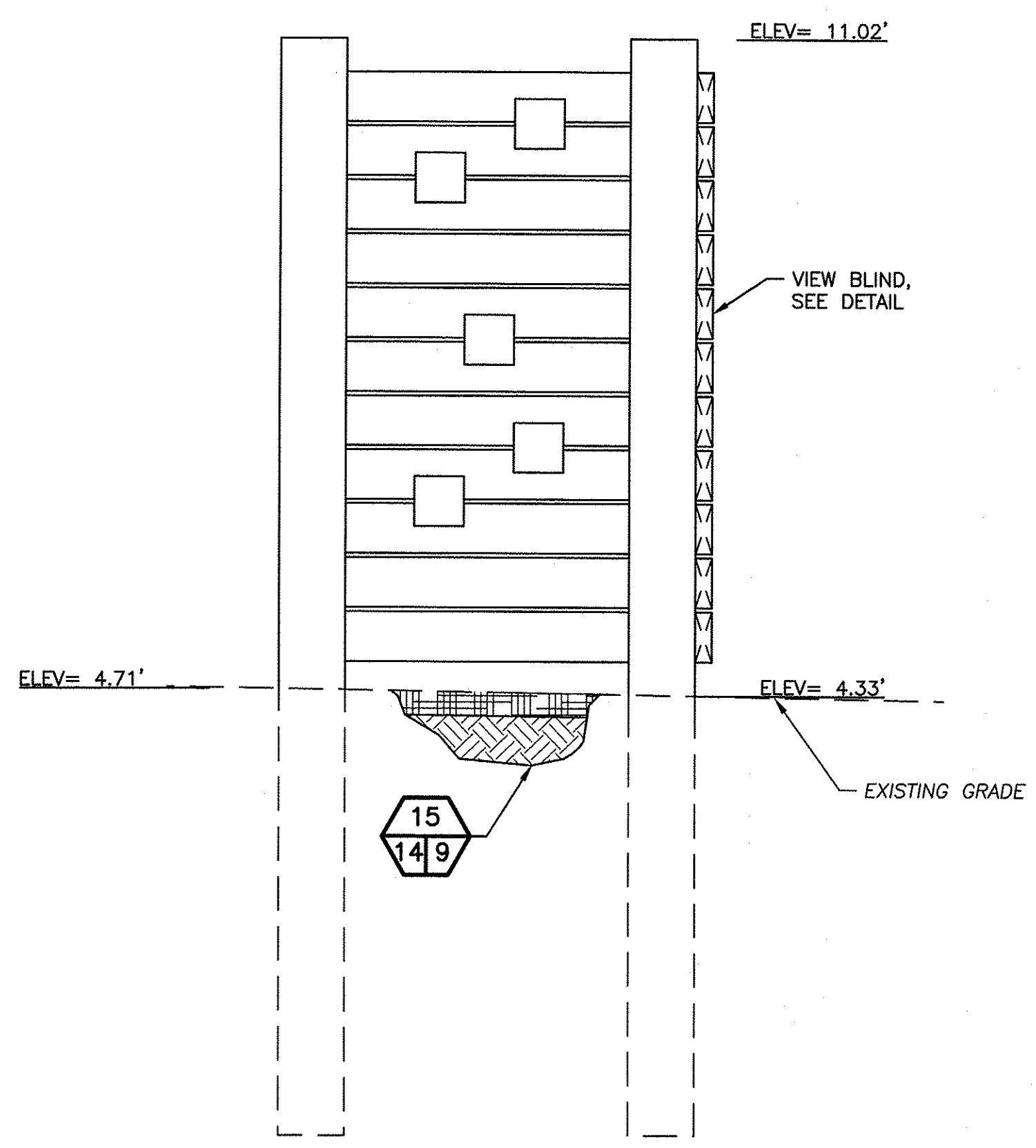
11
6/14

BASE FLOOD
ELEVATION 17.00'

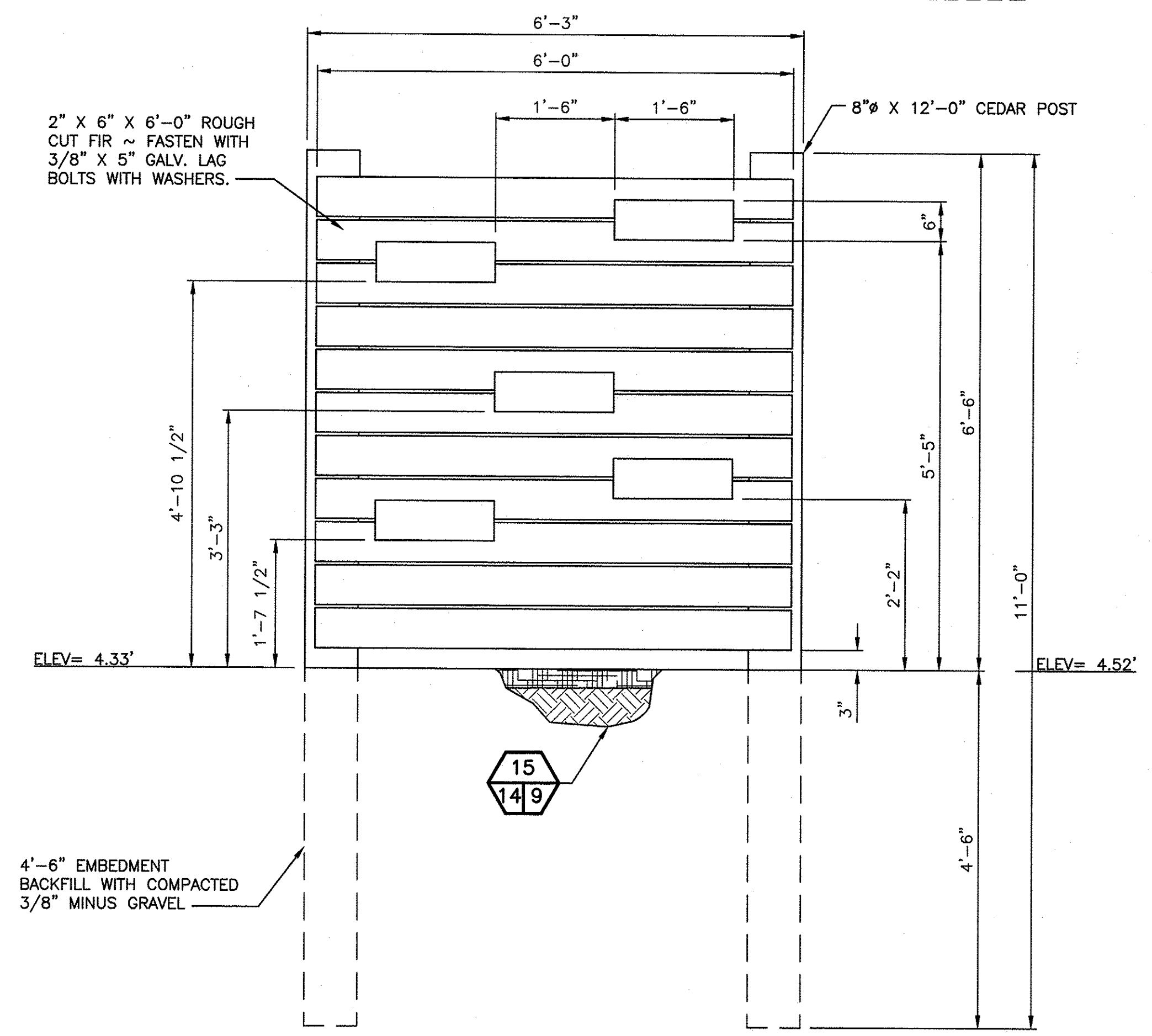


WOOD CHIP PLAN VIEW
SCALE: 3/4" = 1'-0"

15
14/9



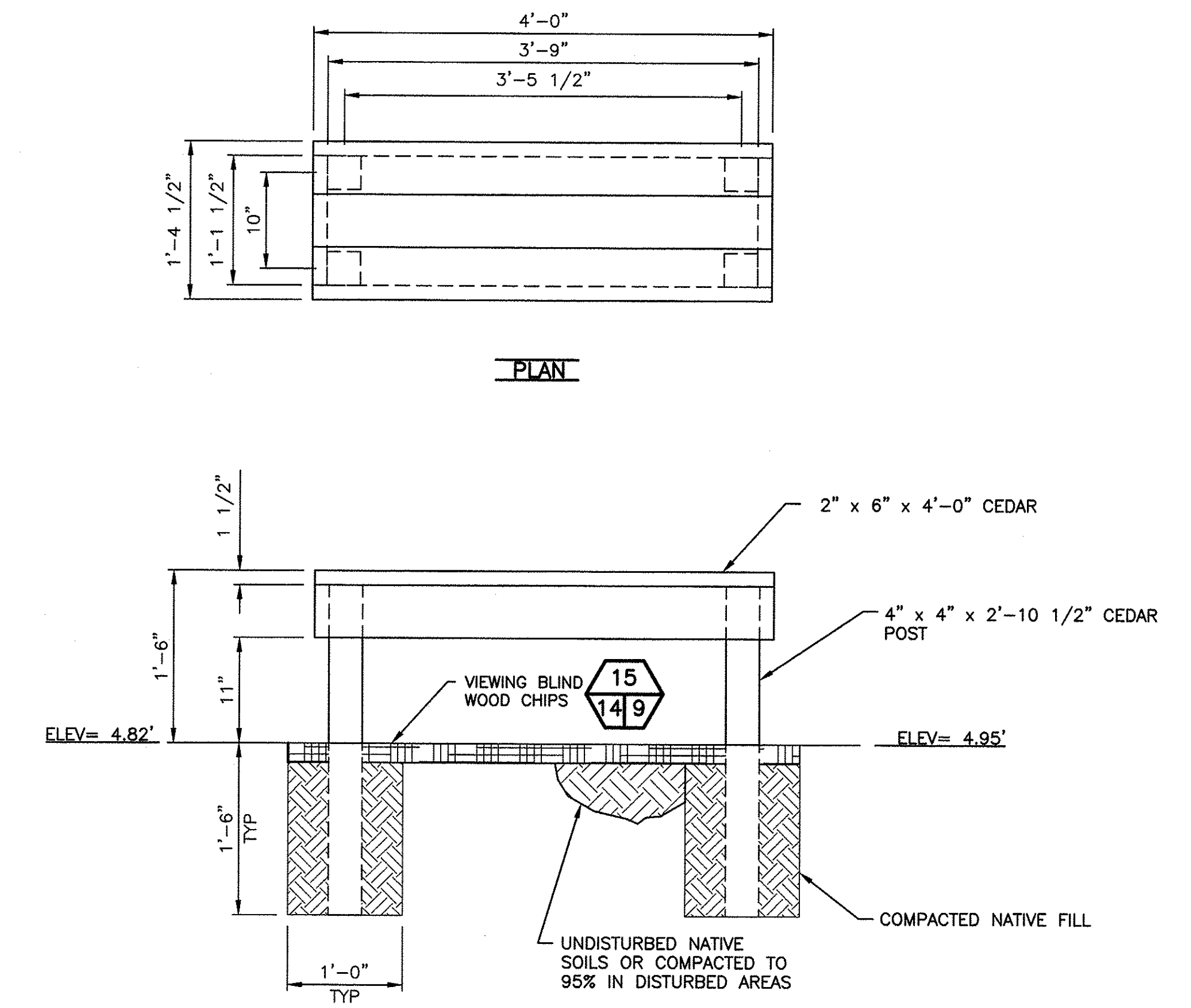
SIDE ELEVATION



TYPICAL ELEVATION

NOTE:

ALL WOOD USED IN VIEWING BLIND SHALL BE CONSTRUCTED WITH UNTREATED LUMBER



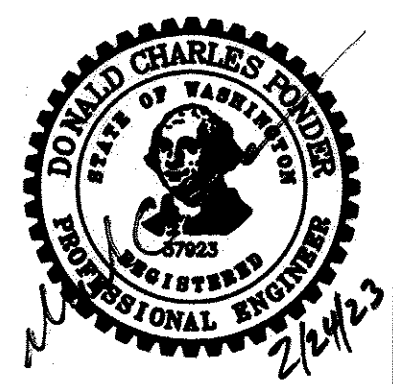
TYPICAL ELEVATION

WOODEN BENCH

SCALE: 1" = 1'-0"

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

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE



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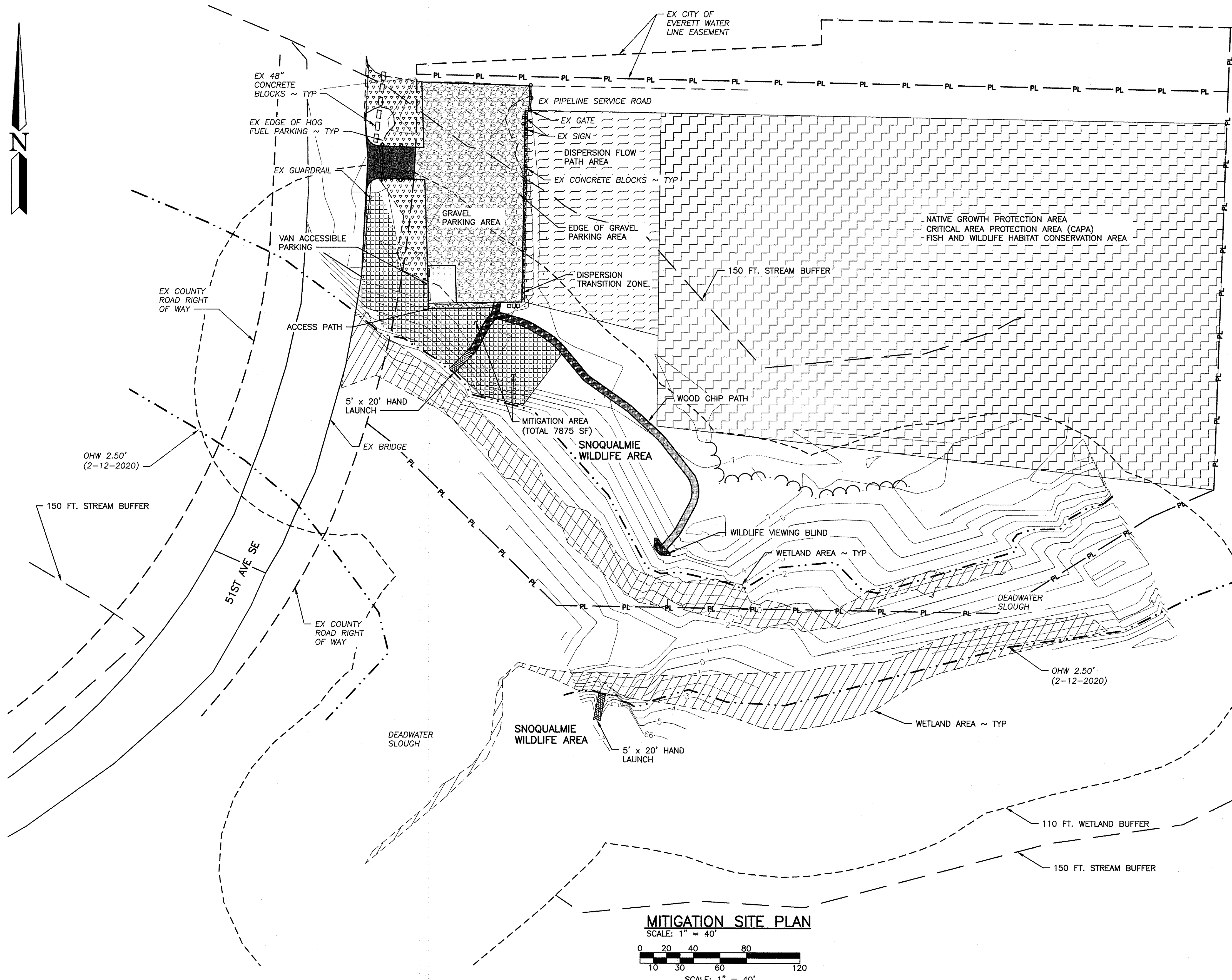
SNOQUALMIE WILDLIFE AREA-EBEY ISLAND UNIT
HAND LAUNCH
VIEW BLIND AND WOOD BENCH DETAILS

PROJECT NO.
SH:R134:2019-2
SHEET 14 OF 16

NOTE:
 1. REMOVE INVASIVE SPECIES: HIMALAYAN BLACKBERRY
 2. ADD 8" DEPTH OF FINE BARK MULCH TO AREA TO PREVENT INVASIVE PLANT REGROWTH

EBEY ISLAND DEVELOPMENT—MITIGATION AND PLANTING

MITIGATION AREA A (7,875 SF)				
PLANTING				
SPECIES	SIZE	QUANTITY	SPACING	REMARKS
MOCK ORANGE (PHILADELPHUS LEWISII)	1 GAL	70	4 FT OC	MOIST-DRY SOIL; SUN-SHADE
SERVICEBERRY (AMELANCHIER ALNIFOLIA)	1 GAL	70	4 FT OC	WELL DRAINED-DRY SOIL, SUN
INDIAN PLUM (OEMLERIA CERASIFORMIS)	1 GAL	70	4 FT OC	MOIST-DRY SOIL; SUN-SHADE
HAZELNUT (CORYLUS CORNUTA)	1 GAL	70	4 FT OC	MOIST-DRY SOIL; SUN-SHADE
NOOTKA ROSA (ROSA NUTKANA)	1 GAL	70	4 FT OC	DRY-MOIST SOIL; SUN-PARTIAL SHADE
OCEANSPRAY (HOLODISCUS DISCOLOR)	1 GAL	70	4 FT OC	MOIST-DRY SOIL; SUN-PARTIAL SHADE
BRACKEN FERN (PTERIDIUM DISCOLOR)	1 GAL	35	RANDOM	
RED ALDER (ALNUS RUBRA)	1 GAL	45	10 FT OC	MOIST-DRY SOIL; SUN-SHADE
DOUGLAS FIR (PSUEDOTSUGA MENZIESII)	1 GAL	30	10 FT OC	MOIST-DRY SOIL; SUN
TOTAL PLANS INSTALLED		492 REQUIRED, 530 PLANNED		
DISPERSION PLANTING AREA (15,515 SF)				
NATIVE WILLOW SPECIES	LIVE STAKES 18"-24"	1,724	3 FT OC	

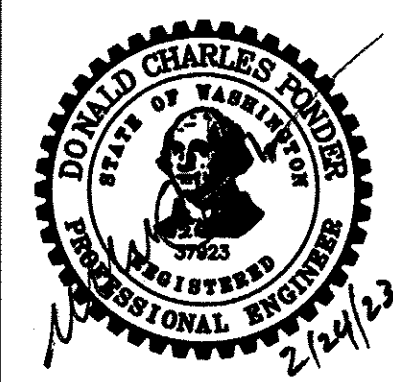


MITIGATION SITE PLAN
 SCALE: 1" = 40'
 0 20 40 80 120
 SCALE: 1" = 40'

LEGEND

1-1/4" GRAVEL	
3/8" MINUS GRAVEL	
ASPHALT (HMA)	
CSBC	
DISPERSION FLOW PATH	
HOG FUEL	
NATIVE GROWTH PROTECTION AREA	
SHEETFLOW	
VAN ACCESSIBLE PARKING	
WETLAND AREA	
WOOD CHIPS	
DISPERSION TRANSITION ZONE	
MITIGATION PLANTING AREA	

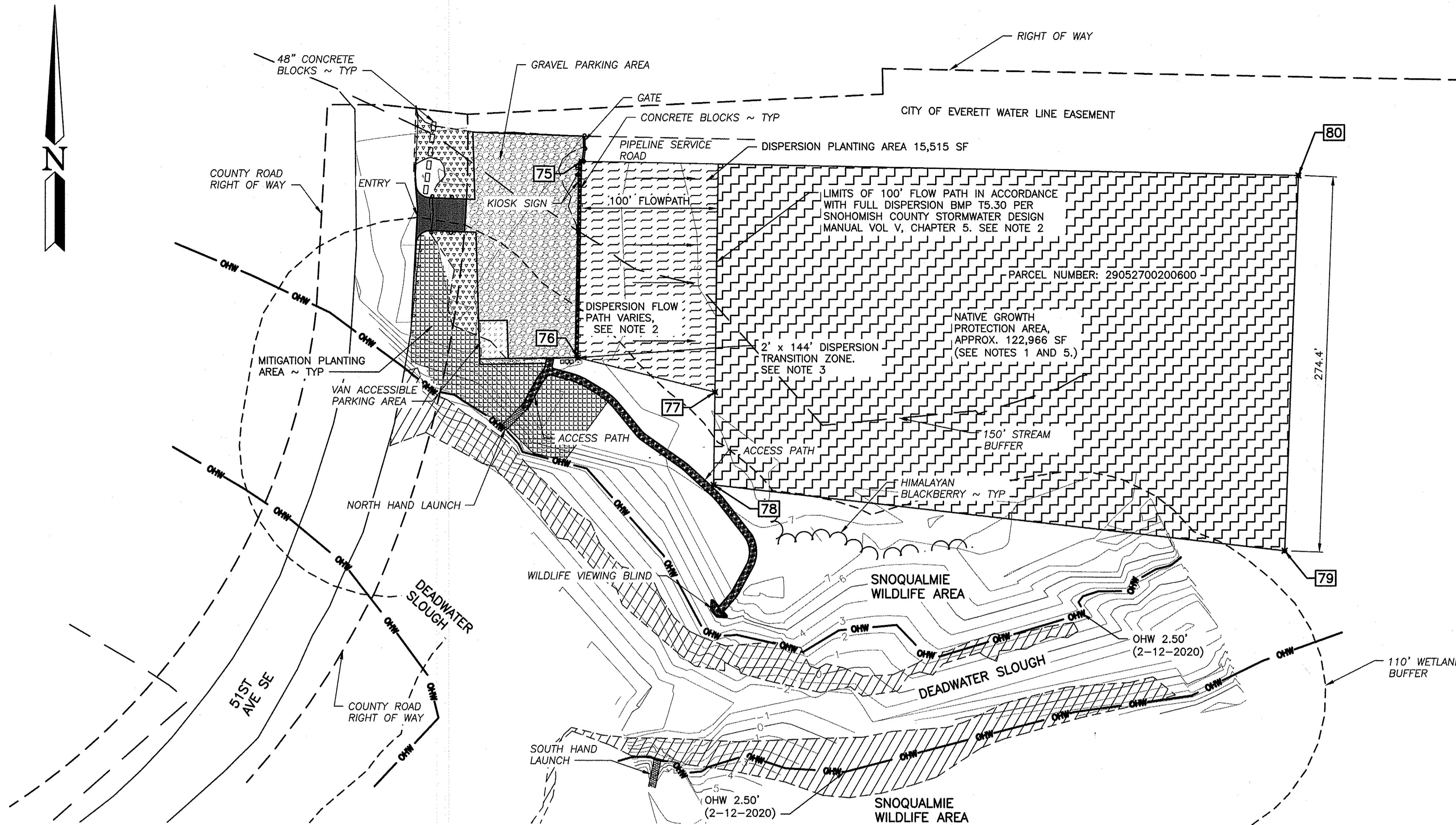
WASHINGTON DEPARTMENT OF
FISH & WILDLIFE



SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER	DATE:	DRAWN BY D. HENNING	DATE 02/13/2023
PROGRAM	DATE:	DESIGNED BY C. ALSTON	CHECKED BY D. SMITH

SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT
HAND LAUNCH
 MITIGATION SITE PLAN, REMOVAL AND PLANTING SCHEDULE

PROJECT NO. SH:R134:2019-2	
SHEET 15	OF 16



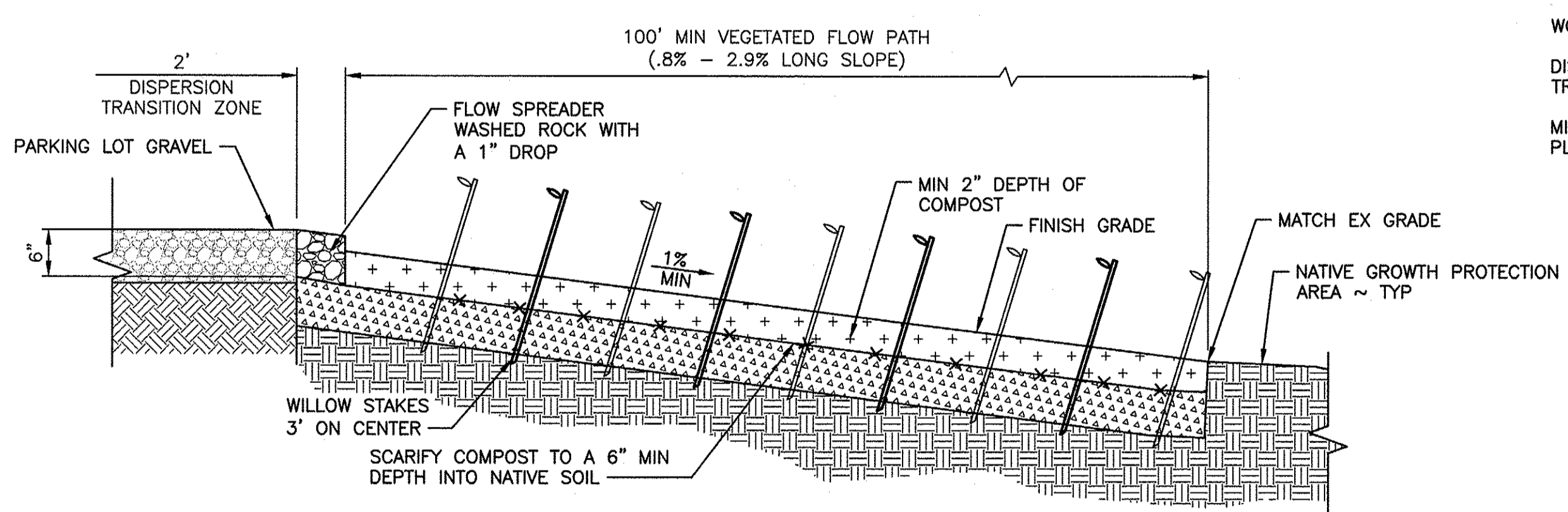
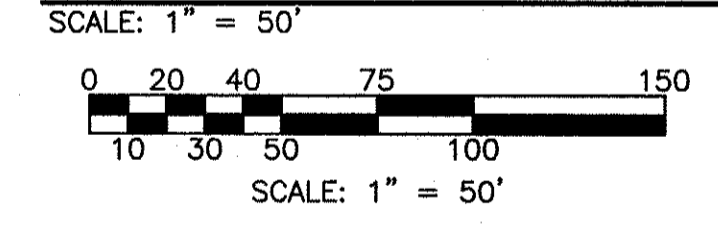
- NOTES:**
- PER BMP T5.30, THE NATIVE GROWTH PROTECTION AREA MUST BE 6.5 TIMES THE AREA OF THE PROPOSED IMPERVIOUS AREA OF THE SITE. THE PROJECT PROPOSES 18,911 SF OF IMPERVIOUS AREA, THUS 122,966 SF OF NATIVE VEGETATION MUST BE PRESERVED FOR THE FULL DISPERSION BMP THROUGH A RECORDED EASEMENT OR COVENANT.
 - EXISTING SLOPES IN THE PROPOSED 100 FT FLOWPATH AREA RANGE FROM 2.9% TO 0.8%.
 - SHEET FLOW FROM THE CONTRIBUTING SURFACE SHALL BE DISCHARGED INTO A TWO FT WIDE TRANSITION ZONE BETWEEN THE EDGE OF THE CONTRIBUTING SURFACE AND THE DOWNSLOPE VEGETATION. THE TRANSITION ZONE SHALL CONSIST OF AN EXTENSION OF PAVEMENT SUBGRADE MATERIAL, MODULAR PAVEMENT, OR DRAIN ROCK. THE TRANSITION ZONE MATERIAL MUST BE PLACED ON TOP OF SOIL AMENDED ACCORDING TO THE CRITERIA OF BMP T5.13 IN THE SNOHOMISH STORMWATER DRAINAGE MANUAL, VOL V.
 - AMEND ALL DISTURBED SOILS IN ACCORDANCE WITH BMP T5.13 POST-CONSTRUCTION SOIL QUALITY AND DEPTH.
 - THE NATIVE GROWTH PROTECTION AREA SHALL MEET ALL APPLICABLE CRITERIA AS STATED IN VOLUME V, BMP T5.30 IN THE SNOHOMISH COUNTY STORMWATER MANUAL. THESE CRITERIA INCLUDE, BUT ARE NOT LIMITED TO:
 - THE PRESERVED AREA SHOULD BE PLACED IN A SEPARATE TRACT OR PROTECTED THROUGH RECORDED EASEMENTS FOR INDIVIDUAL LOTS.
 - THE PRESERVED AREA SHOULD BE SHOWN ON ALL PROPERTY MAPS AND SHOULD BE CLEARLY MARKED DURING CLEARING AND CONSTRUCTION ON THE SITE.
 - THE PRESERVED AREA MAY BE USED FOR PASSIVE RECREATION AND RELATED FACILITIES, INCLUDING PEDESTRIAN AND BICYCLE TRAILS, NATURE VIEWING AREAS, FISHING AND CAMPING AREAS, AND OTHER SIMILAR ACTIVITIES THAT DO NOT REQUIRE PERMANENT STRUCTURES, PROVIDED THAT CLEARED AREAS AND AREAS OF COMPACTED SOIL ASSOCIATED WITH THESE AREAS AND FACILITIES DO NOT EXCEED EIGHT PERCENT OF THE PRESERVED AREA.

LEGEND

- 1-1/4" GRAVEL
- 3/8" MINUS GRAVEL
- ASPHALT (HMA)
- CSBC
- DISPERSION FLOW PATH
- HOG FUEL
- NATIVE GROWTH PROTECTION AREA
- SHEETFLOW
- VAN ACCESSIBLE PARKING
- WETLAND AREA
- WOOD CHIPS
- DISPERSION TRANSITION ZONE
- MITIGATION PLANTING AREA

DISPERSION FLOW AND NATIVE GROWTH AREA				
POINT #	EASTING	NORTHING	ELEVATION	DESCRIPTION
75	1315078.76	359500.46	7.92	CORNER OF DISPERSION
76	1315076.25	359356.99	7.27	CORNER OF DISPERSION
77	1315176.63	359331.88	6.10	CORNER OF DISPERSION
78	1315175.76	359264.05	6.72	CORNER OF NATIVE GROWTH
79	1315593.88	359217.03	4.30	CORNER OF NATIVE GROWTH
80	1315603.42	359491.26	7.50	CORNER OF NATIVE GROWTH

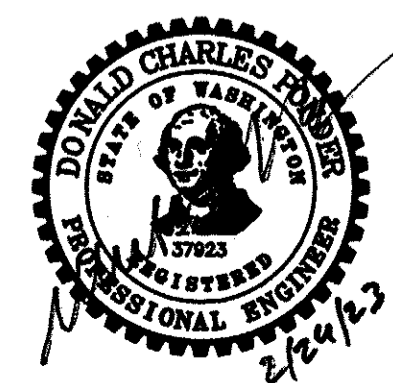
FULL DISPERSION SITE PLAN



DISPERSION DETAIL
NOT TO SCALE

PROPERTY DESCRIPTION:
SEC 27 TWP 29 RGE 05RT-7A-1) W 660FT OF N 3/8 NW1/4 NW1/4 LESS ST RD 15 LESS EASE TO CITY OF EV LESSEASE TO ST OF WASH WD 820/745 LESS R/W TO ST OF WA PER WD REC AF 9211060186

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FULL DISPERSION SITE PLAN

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