



WASHINGTON DEPARTMENT OF
FISH AND WILDLIFE

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

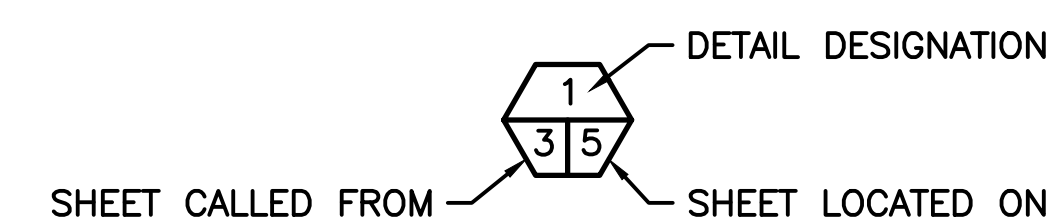
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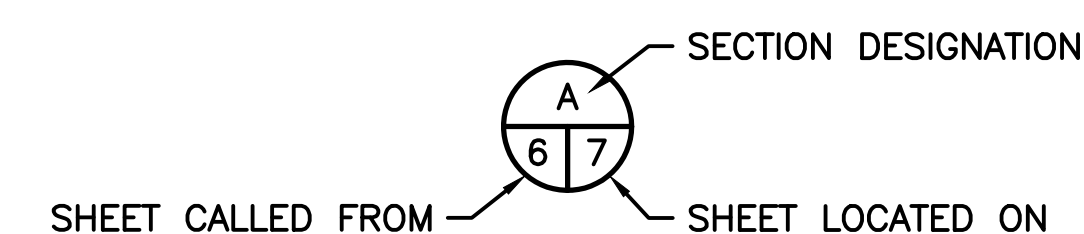
ABBREVIATIONS

- ACQ - ALKALINE COPPER QUATERNARY
- APPROX - APPROXIMATELY
- CLR - CLEARANCE
- CSBC - CRUSHED SURFACE BASE COURSE
- CSTC - CRUSHED SURFACE TOP COURSE
- CY - CUBIC YARD
- DIA, Ø - 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



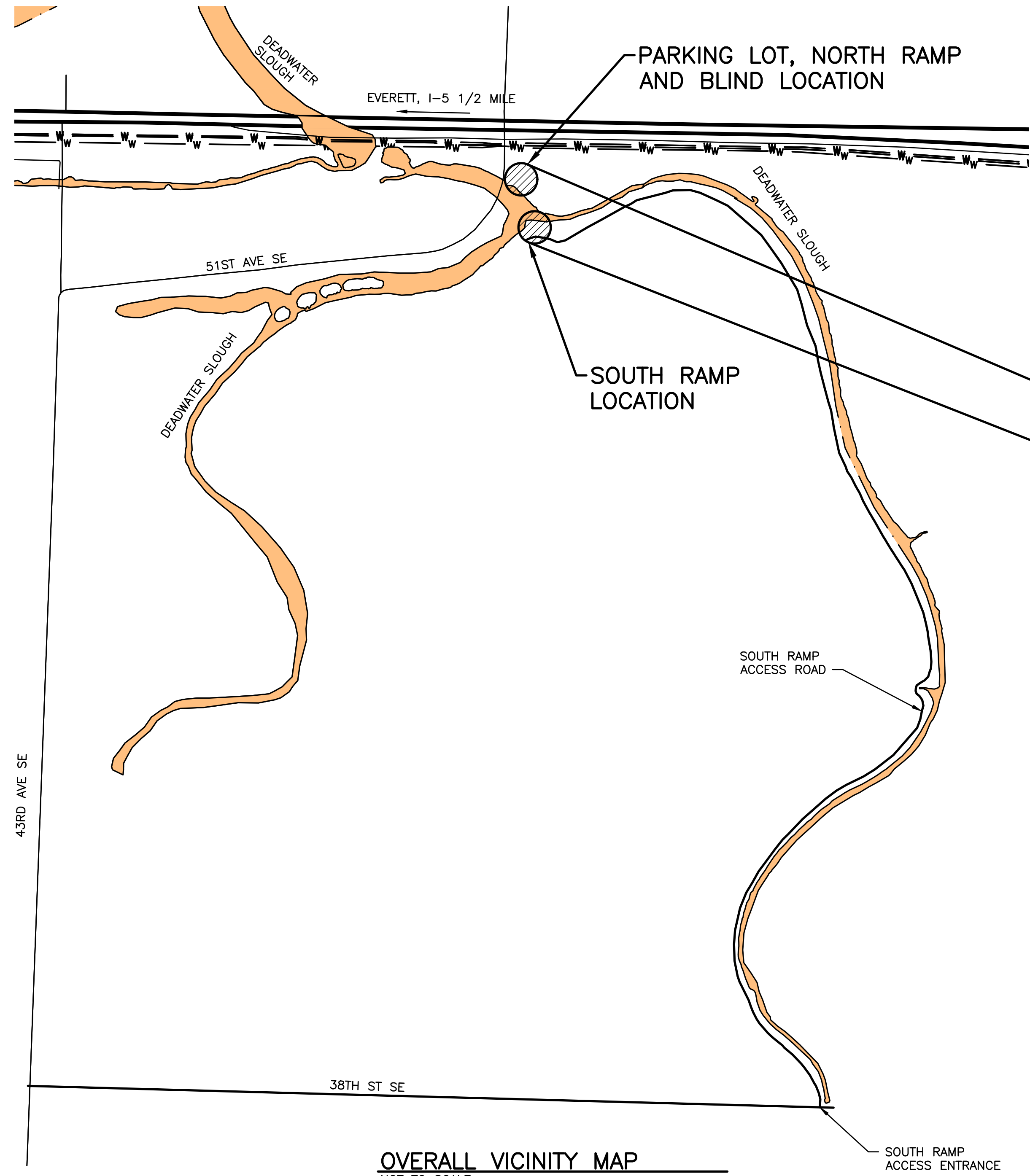
SECTION



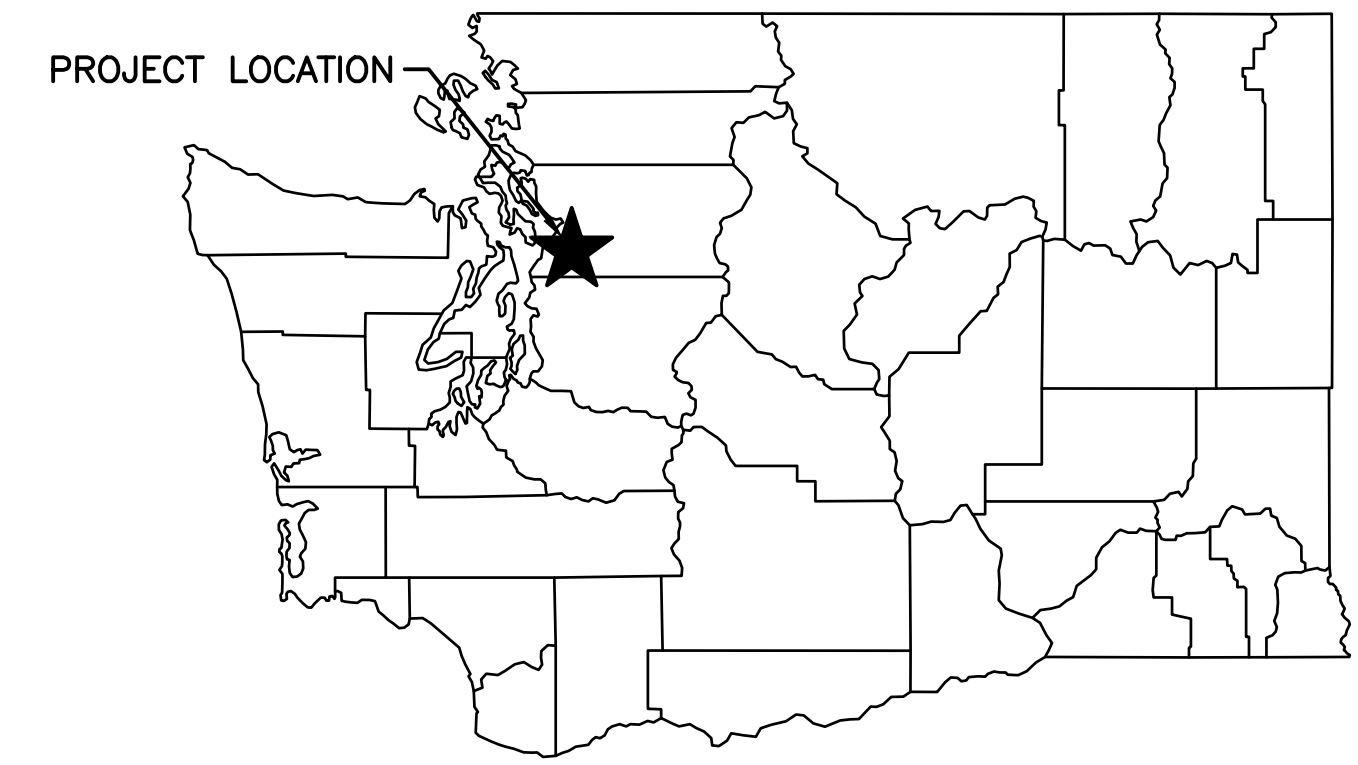
NOTE REFERENCE

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

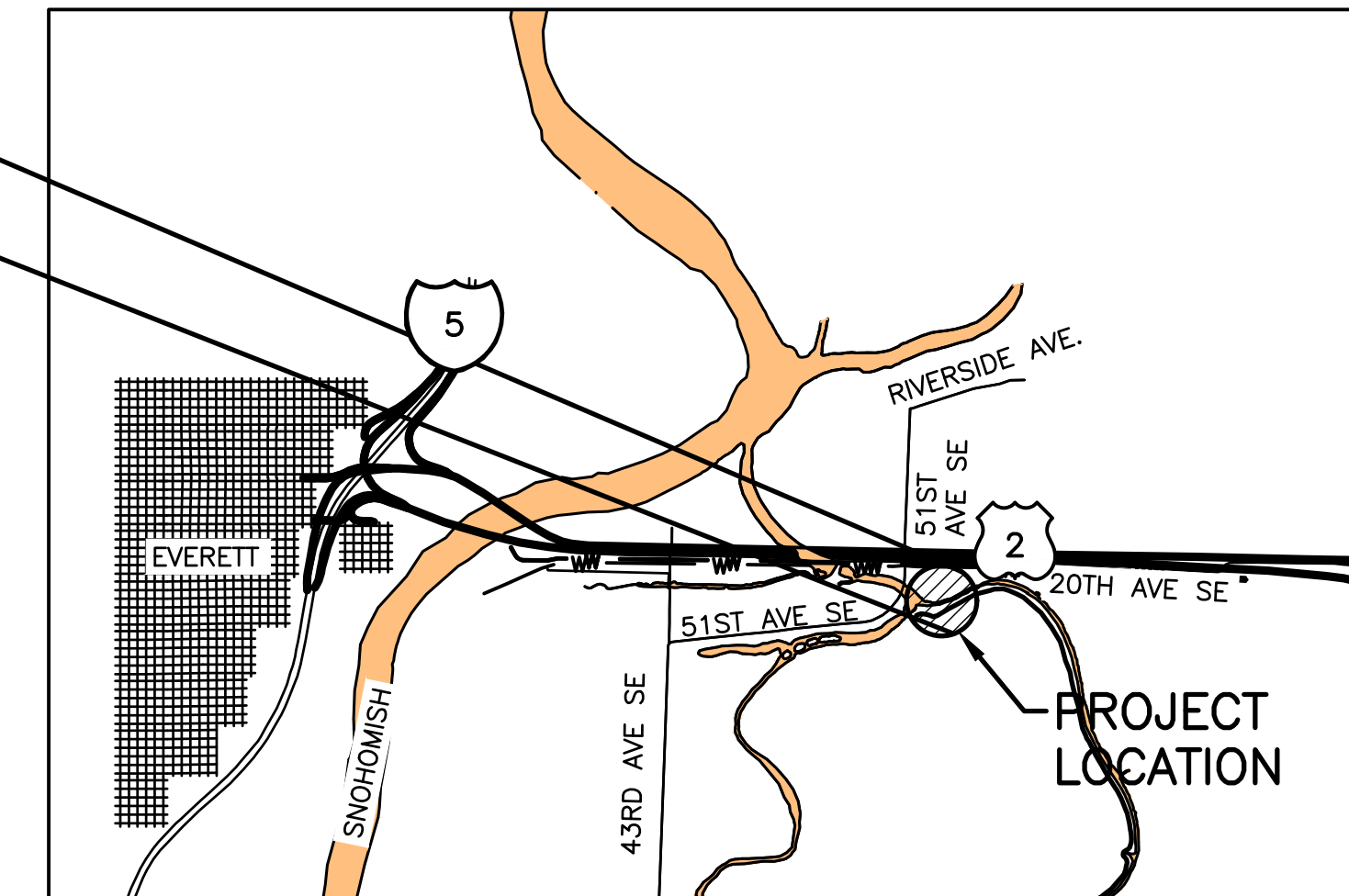
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| PROJECT NO. | |
| SH:R134:2019-2 | |
| SHEET | OF |
| 1 | 17 |



OVERALL VICINITY 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.

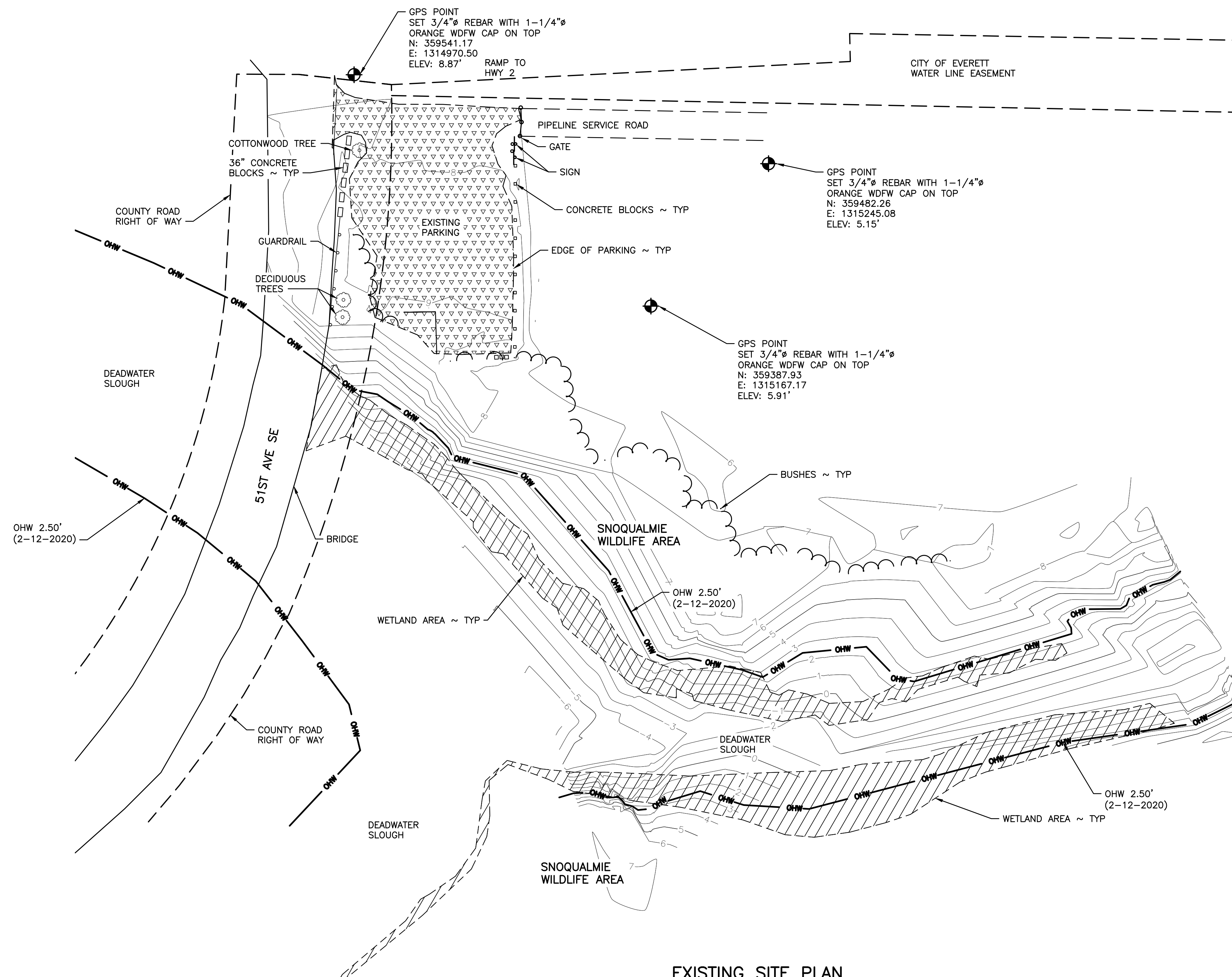
WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

| SYM | DATE | REVISION DESCRIPTION | BY |
|----------------|-------|--|----|
| | | APPROVED AND RELEASED FOR CONSTRUCTION | |
| CHIEF ENGINEER | | DATE: | |
| PROGRAM | | DATE: | |

DESIGNED BY C. ALSTON
CHECKED BY D. SMITH
DRAWN BY D. HENNING
DATE 11/30/2022

SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT
HAND LAUNCH
OVERALL SITE PLAN, STATE & VICINITY MAP

PROJECT NO.
SH:R134:2019-2
SHEET 2 OF 17



EXISTING SITE PLAN
 SCALE: 1" = 40'

SCALE: 1" = 40'

NOTE:
 PER FEMA NATIONAL FLOOD HAZARD LAYER FIRMETTE, THE FULL SITE IS IN ZONE AE FLOOD PLAIN. PANEL 53061C1035F DATED 9/16/2005.

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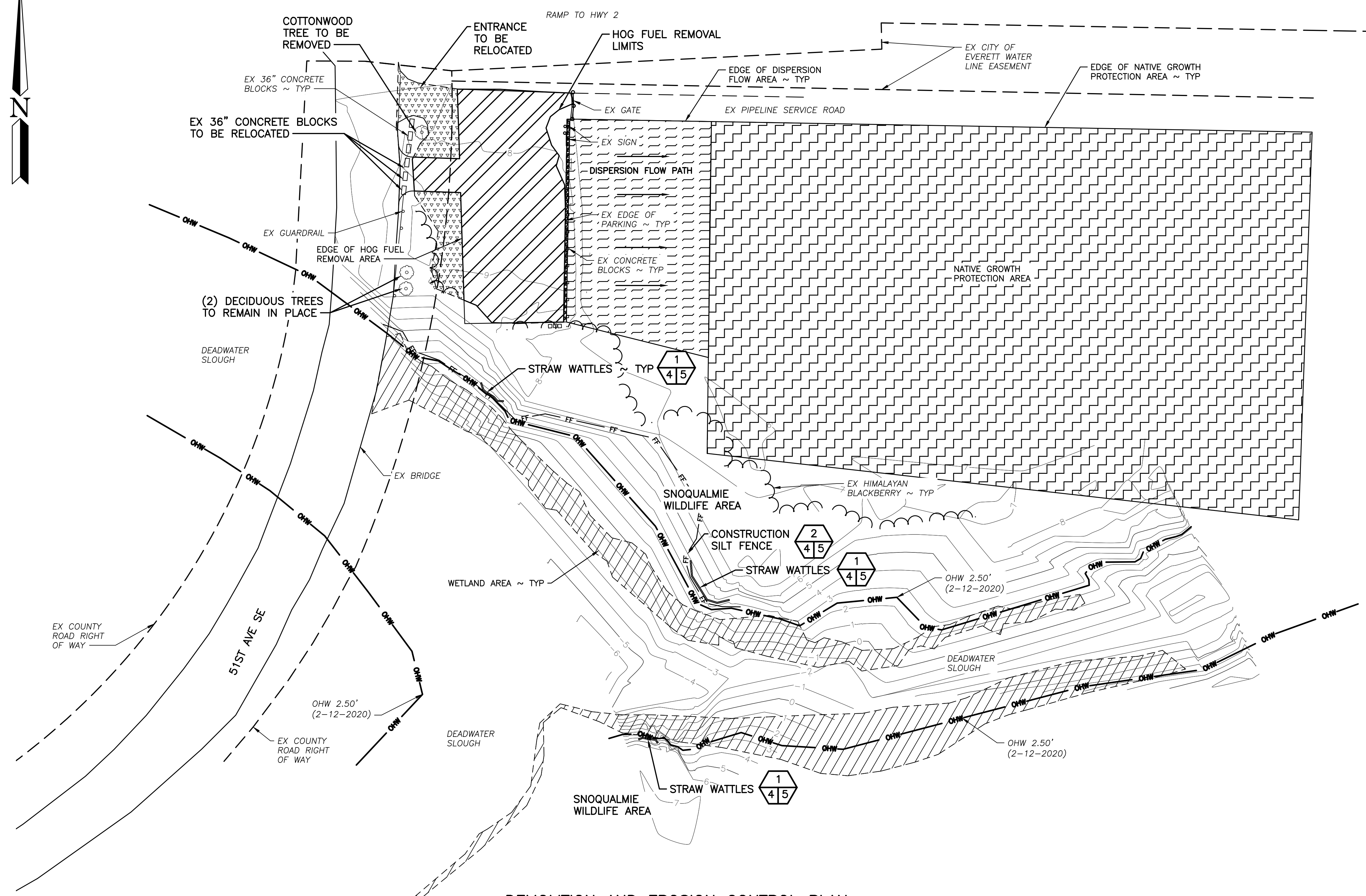
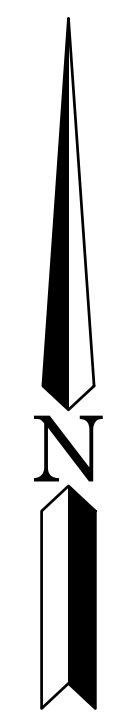
SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT

HAND LAUNCH
 EXISTING SITE PLAN

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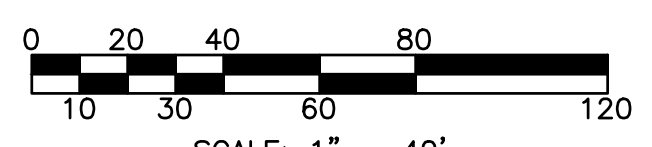
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NOTE:
 CONTRACTOR MUST "AMEND ALL DISTURBED SOILS IN ACCORDANCE WITH BMP 15.15 POST-CONSTRUCTION SOIL QUALITY AND DEPTH PER SNOHOMISH COUNTY STORMWATER DESIGN MANUAL.



DEMOLITION AND EROSION CONTROL PLAN

SCALE: 1" = 40'



LEGEND

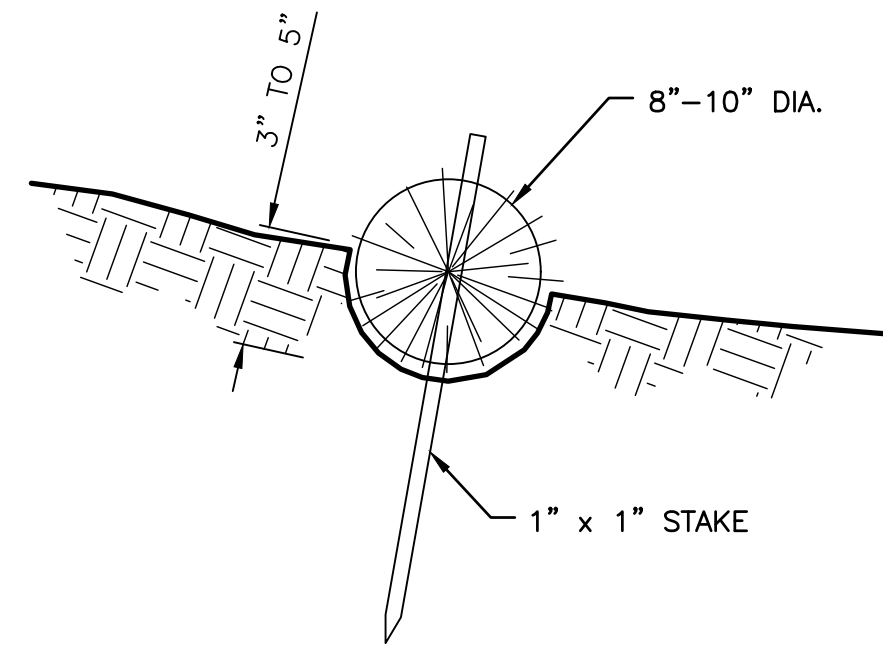
- ASPHALT (HMA) [Hatched pattern]
- CONSTRUCTION SILT FENCE [Line with 'FF' label]
- CSBC [Hatched pattern]
- DISPERSION FLOW PATH AREA [Hatched pattern]
- GRAVEL [Hatched pattern]
- HOG FUEL TO REMAIN [Hatched pattern]
- HOG FUEL TO BE REMOVED [Hatched pattern]
- NATIVE GROWTH PROTECTION AREA [Hatched pattern]
- SHEETFLOW [Wavy line]
- WETLAND AREA [Hatched pattern]

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HAND LAUNCH
 DEMOLITION AND EROSION CONTROL PLAN AND
 DETAIL

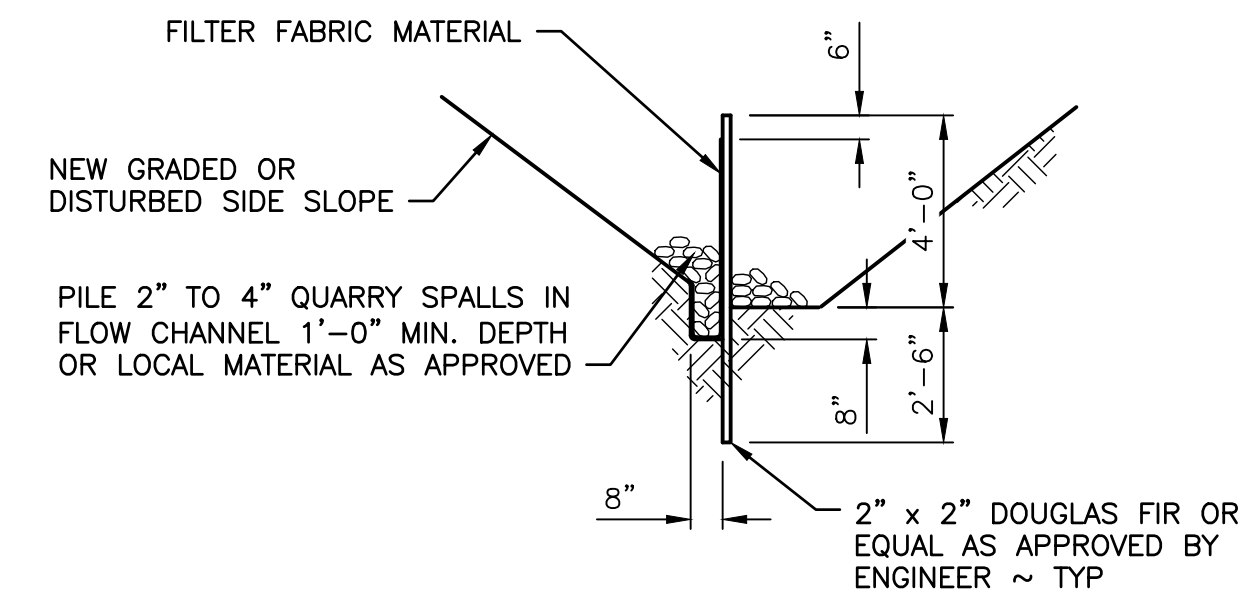
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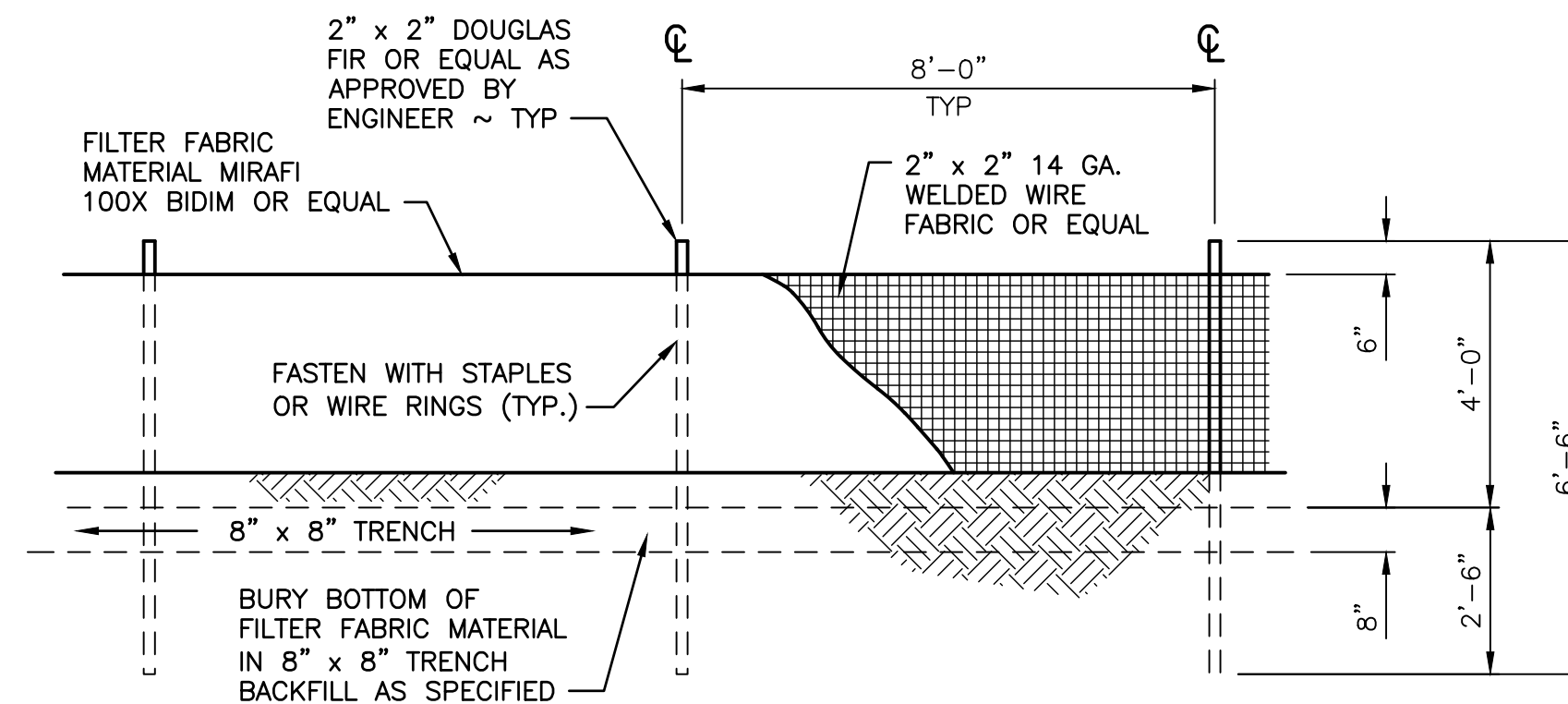
STRAW WATTLE DETAIL 1
4 5
NOT TO SCALE

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 2
4 5
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 ENGINEER.
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 ENGINEER.
7. CUTOFF TRENCH SHALL BE BACKFILLED WITH 3/4 INCH MINIMUM DIAMETER WASHED GRAVEL OR OTHER SIMILAR SOURCE AS APPROVED BY THE ENGINEER.
8. FILTER FENCING SHALL BE INSTALLED WHERE SHOWN ON THE PLAN, OR AS MARKED IN THE FIELD BY THE ENGINEER, 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 ENGINEER.

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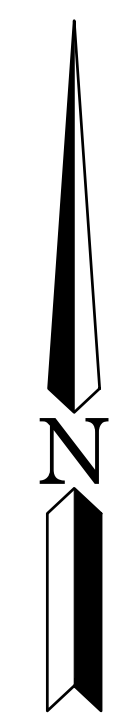
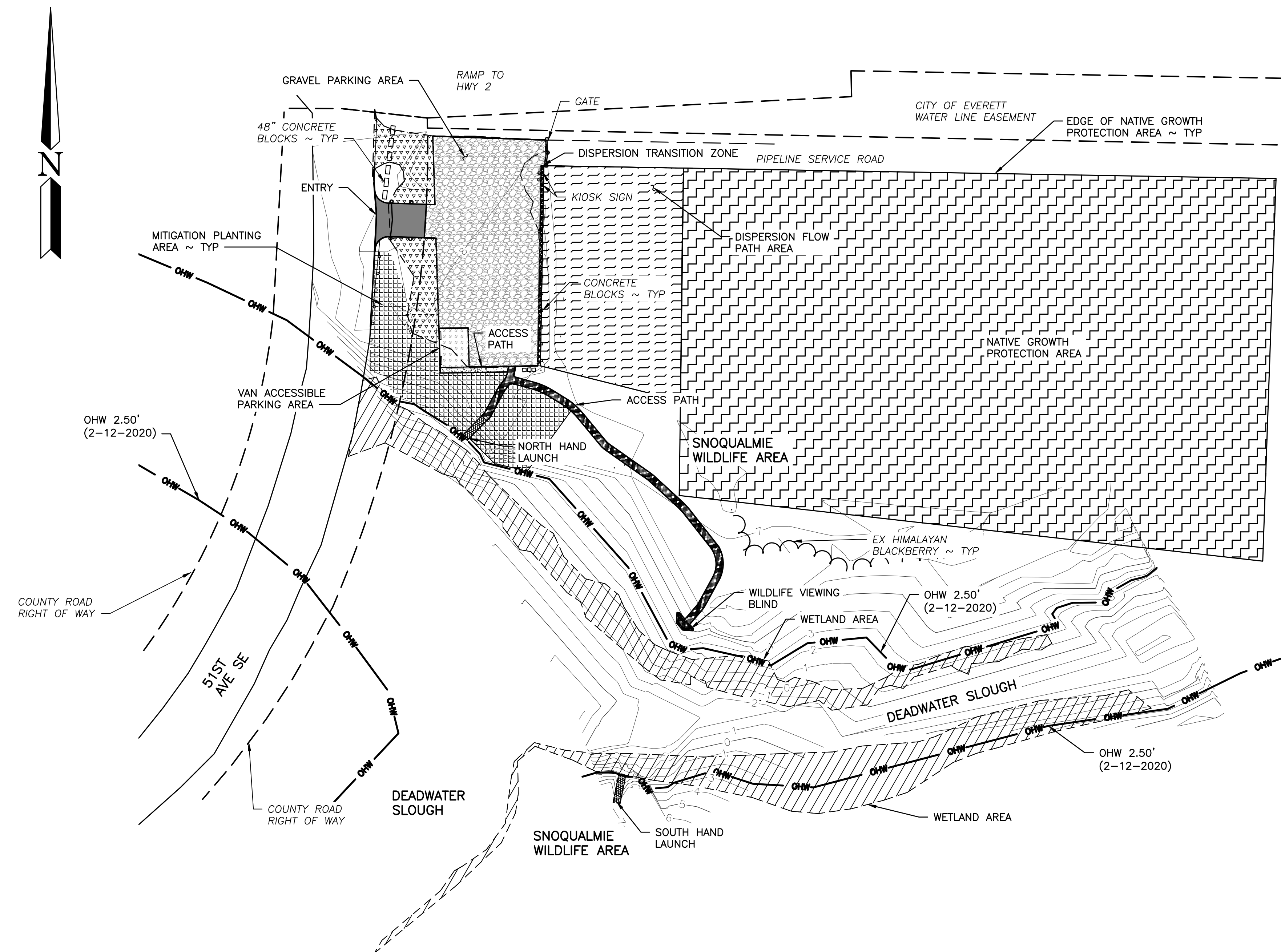
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HAND LAUNCH
EROSION DETAILS

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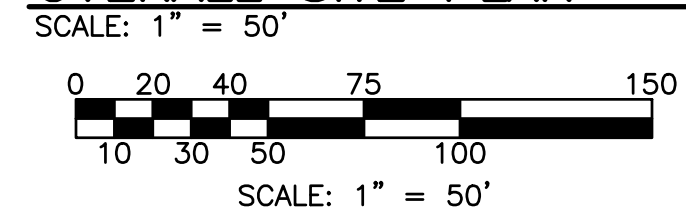
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LEGEND

- 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

OVERALL SITE PLAN



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**HAND LAUNCH
OVERALL SITE PLAN**

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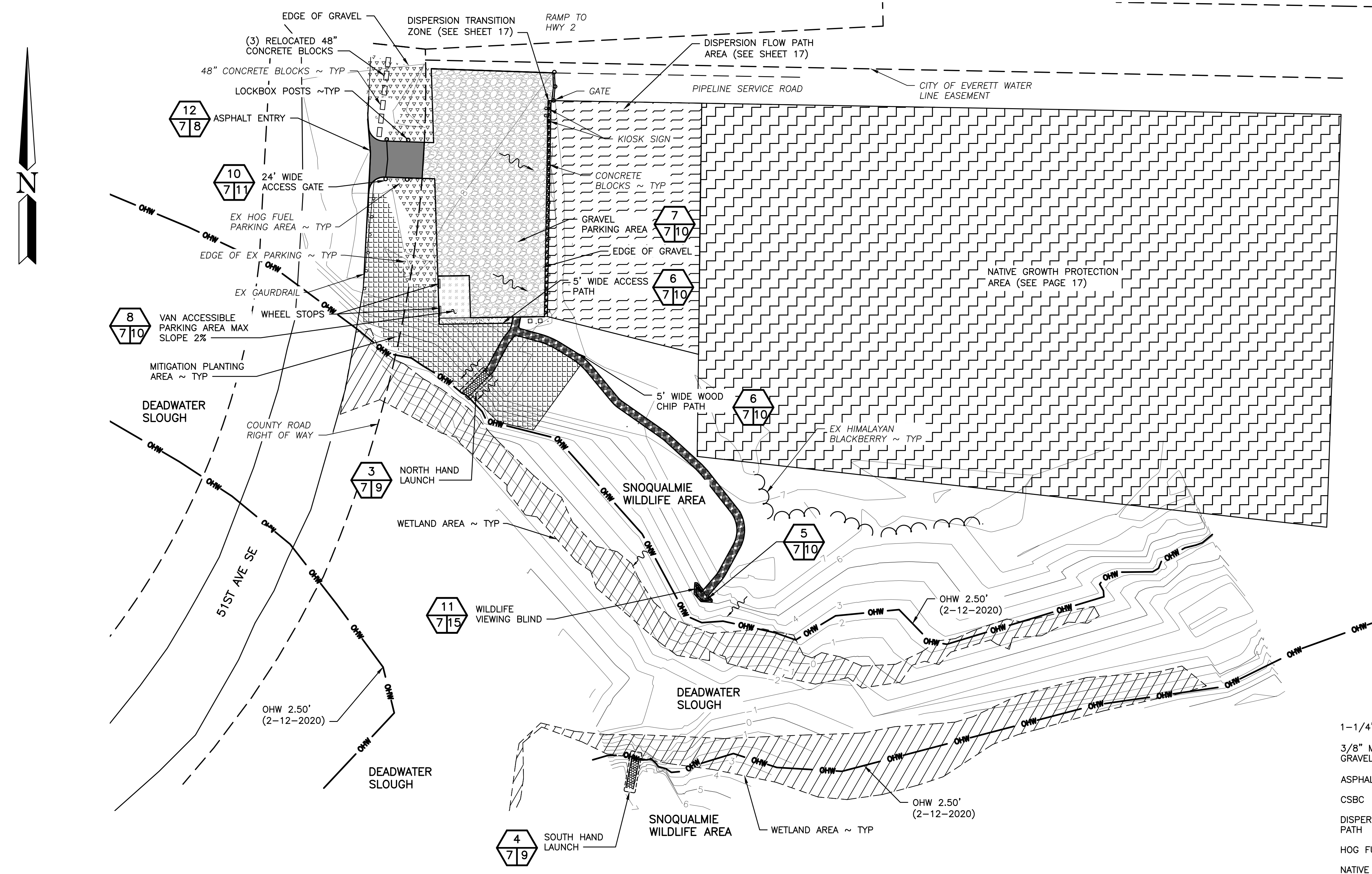
NOTES:

1. IN ACCORDANCE WITH BMP T5.30 FULL DISPERSION OF THE SNOHOMISH COUNTY DRAINAGE MANUAL, ON-SITE RUNOFF FROM GRAVEL 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 | -- |



PROPOSED SITE PLAN
SCALE: 1" = 40'

0 20 40 80 120
SCALE: 1" = 40'

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

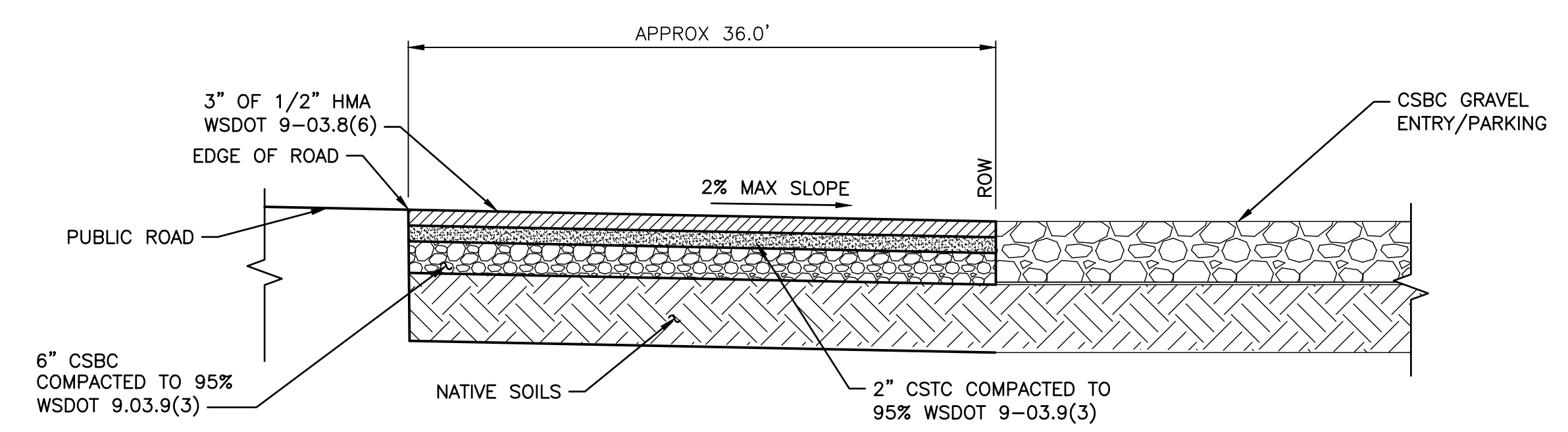
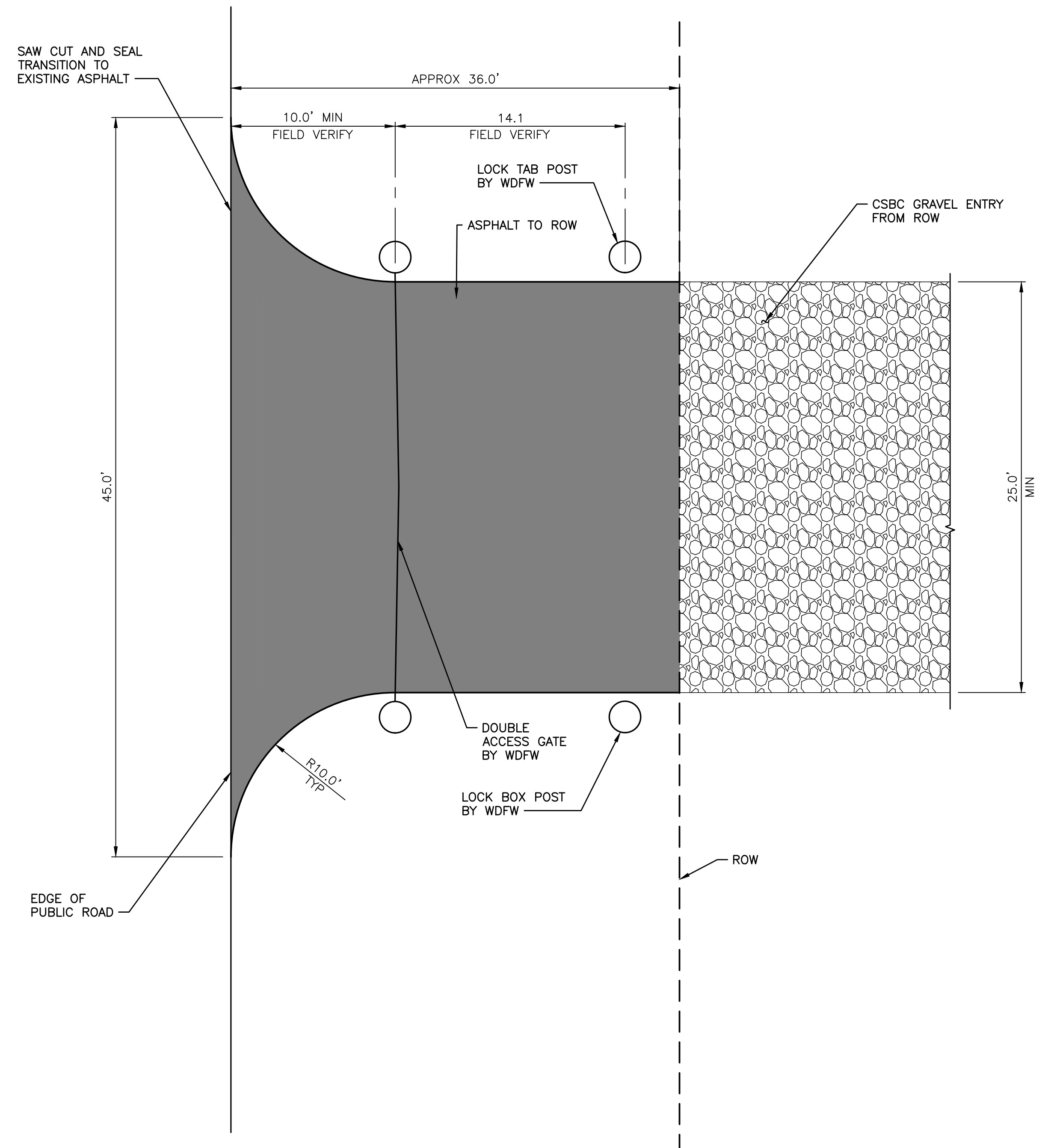
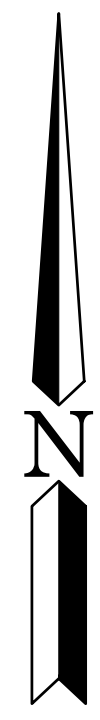
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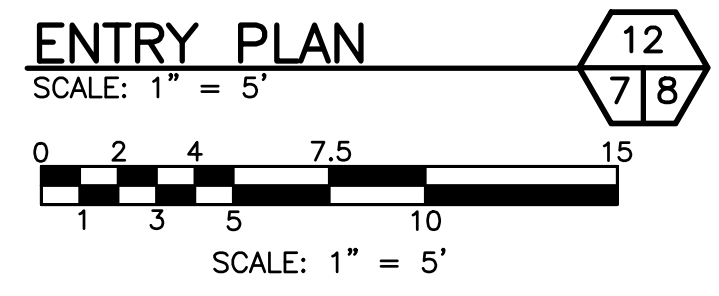
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PROPOSED SITE PLAN, QUANTITIES AND TABLES

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SHEET 7 OF 17

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



ENTRY DETAIL
 SCALE: 1" = 5'

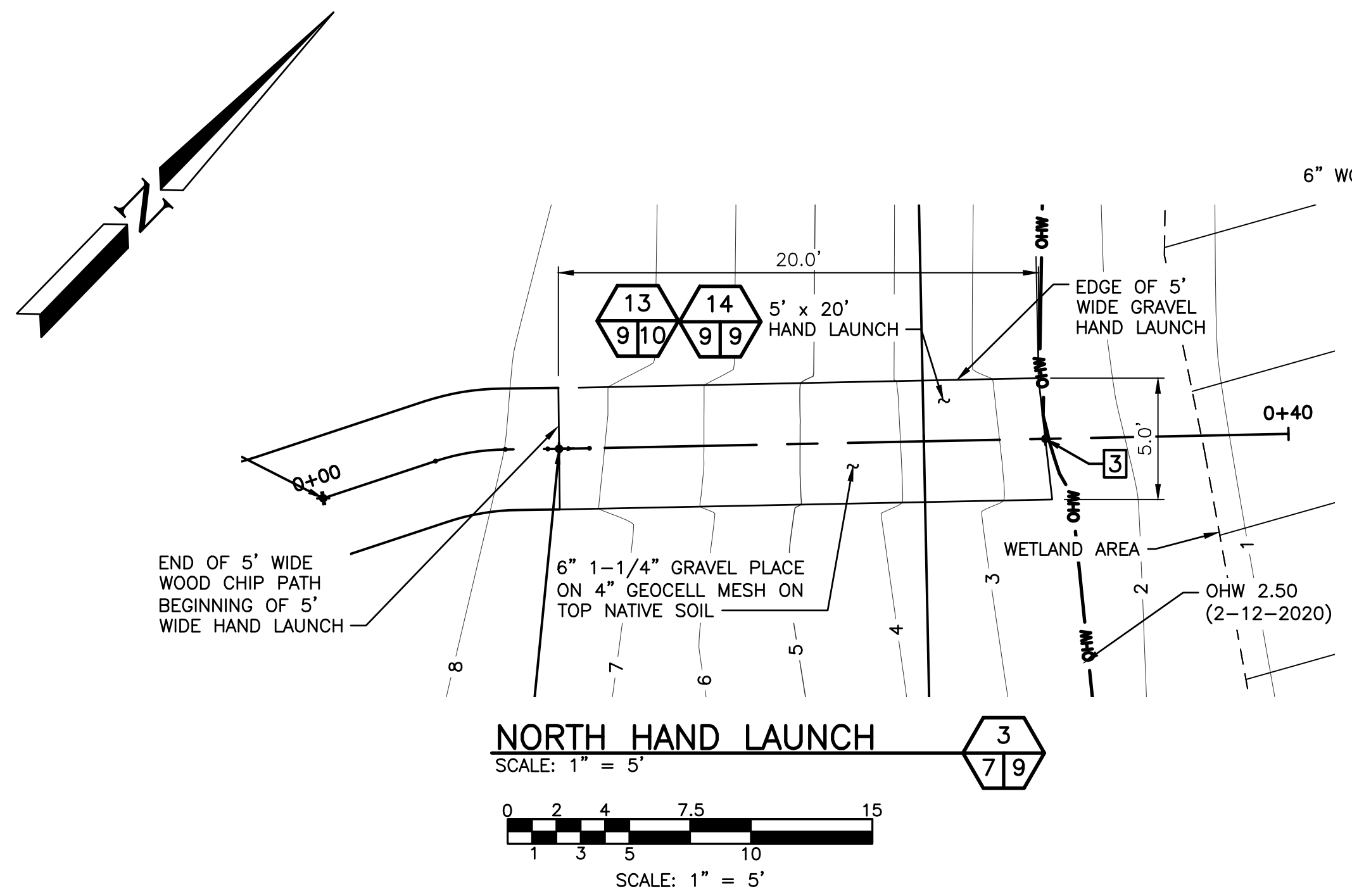


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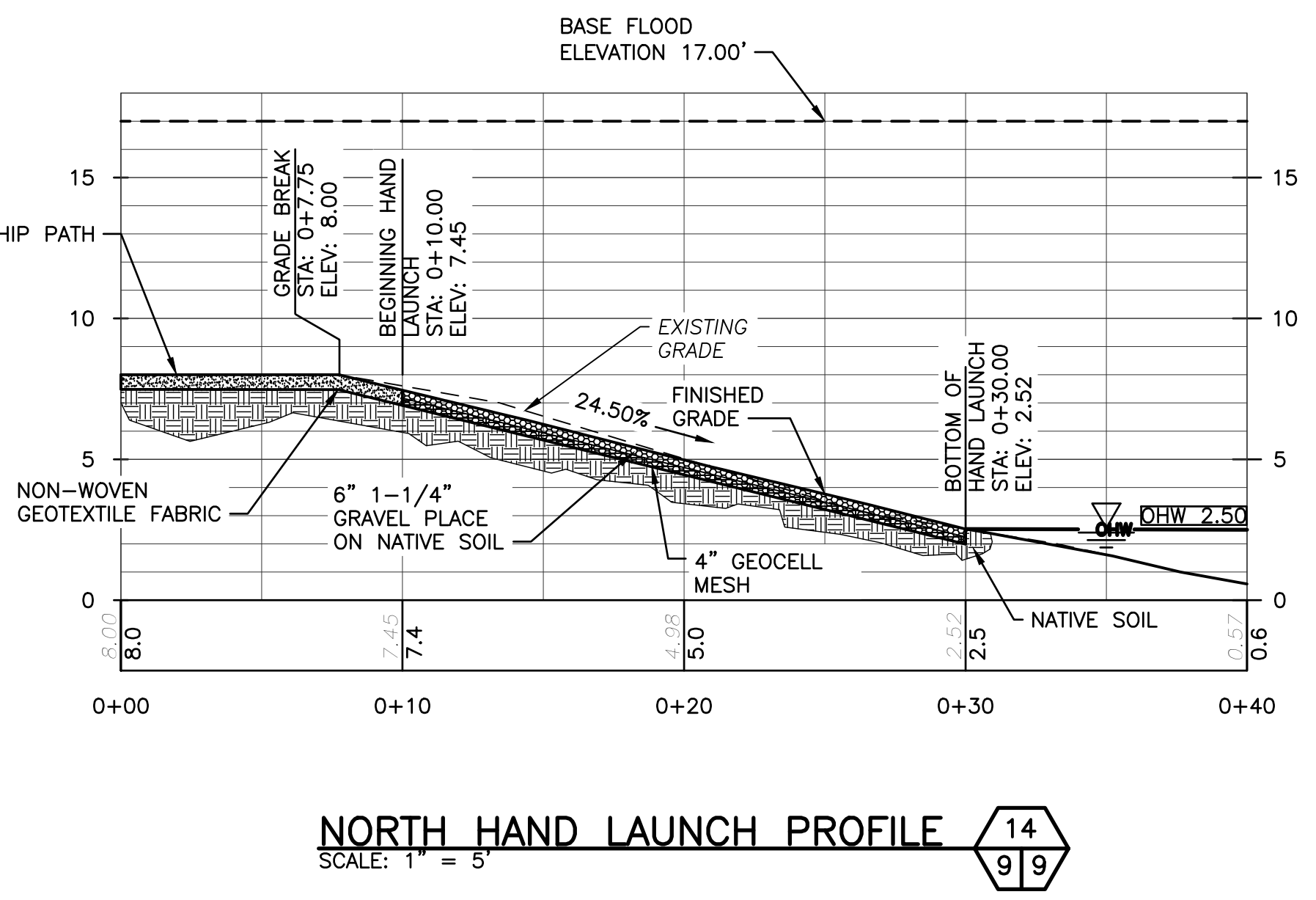
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ENTRY PLAN AND DETAIL

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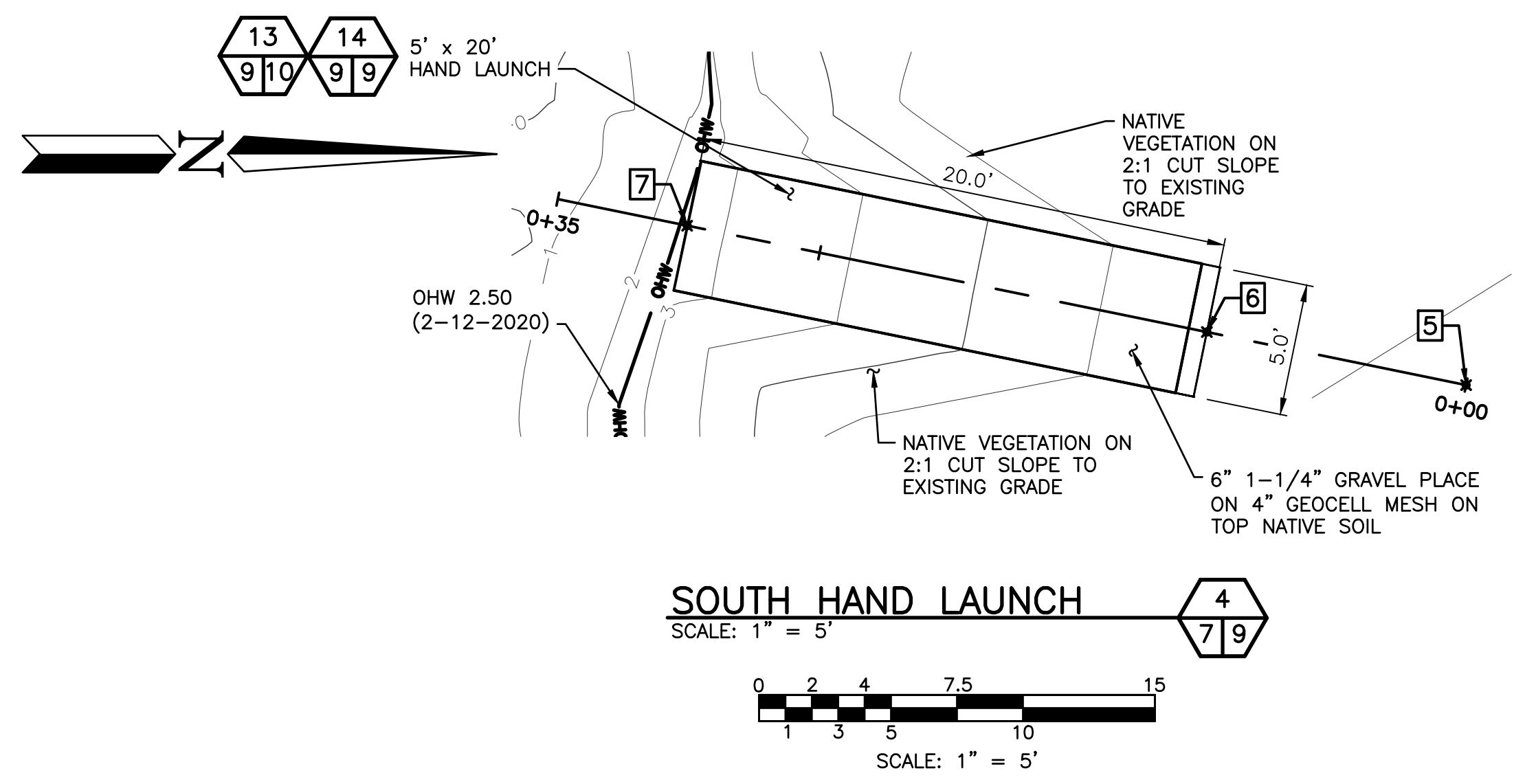


NORTH HAND LAUNCH
SCALE: 1" = 5'

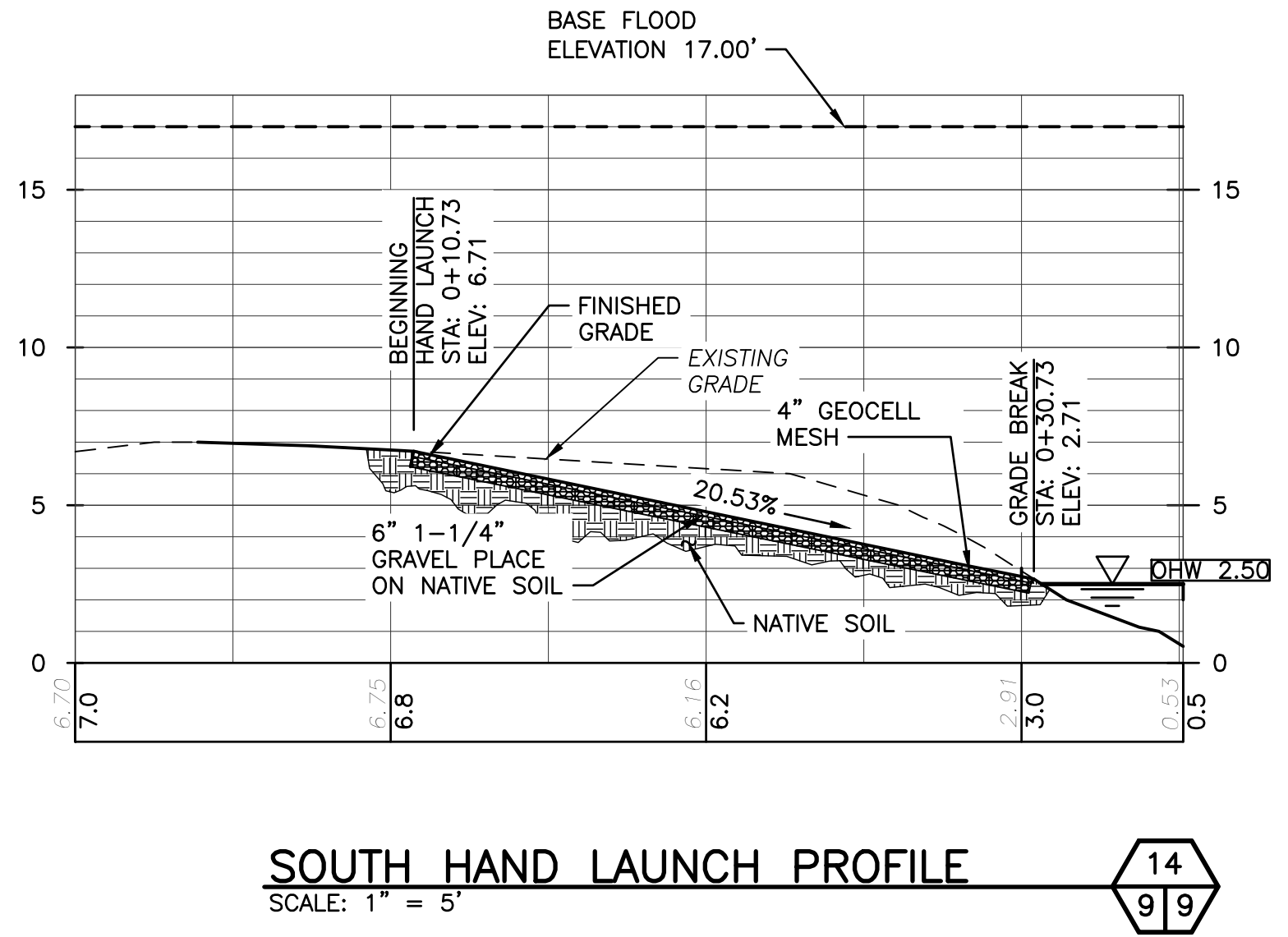


NORTH HAND LAUNCH PROFILE
SCALE: 1" = 5'

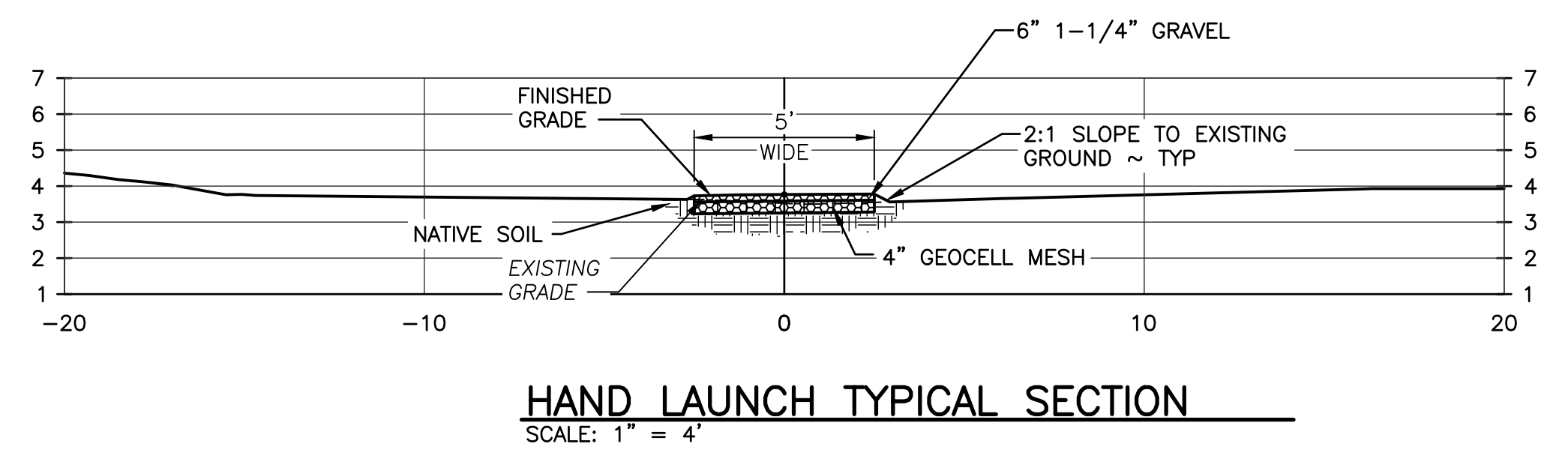
| RAMPS | | | | |
|---------|------------|-----------|-----------|--------------------------|
| POINT # | EASTING | NORTHING | ELEVATION | DESCRIPTION |
| 1 | 1315041.48 | 359327.65 | 8.00 | NORTH CONTROL POINT |
| 2 | 1315035.94 | 359319.43 | 7.45 | TOP OF NORTH HAND LAUNCH |
| 3 | 1315021.89 | 359305.20 | 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'

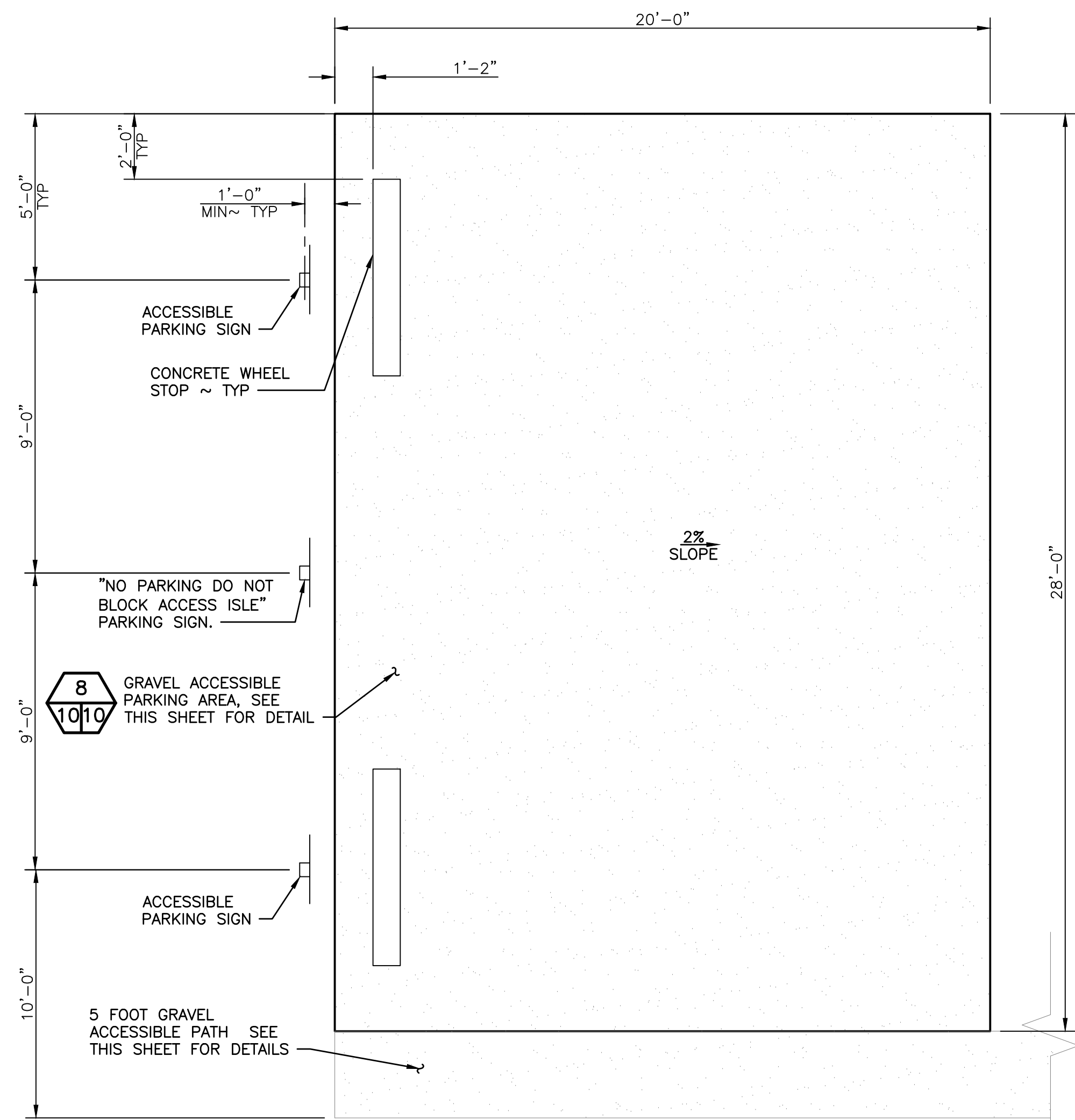
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FISH & WILDLIFE

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|--|------|----------------------|----|
| APPROVED AND RELEASED FOR CONSTRUCTION | | | |
| CHIEF ENGINEER | | DATE: | |
| PROGRAM | | DATE: | |

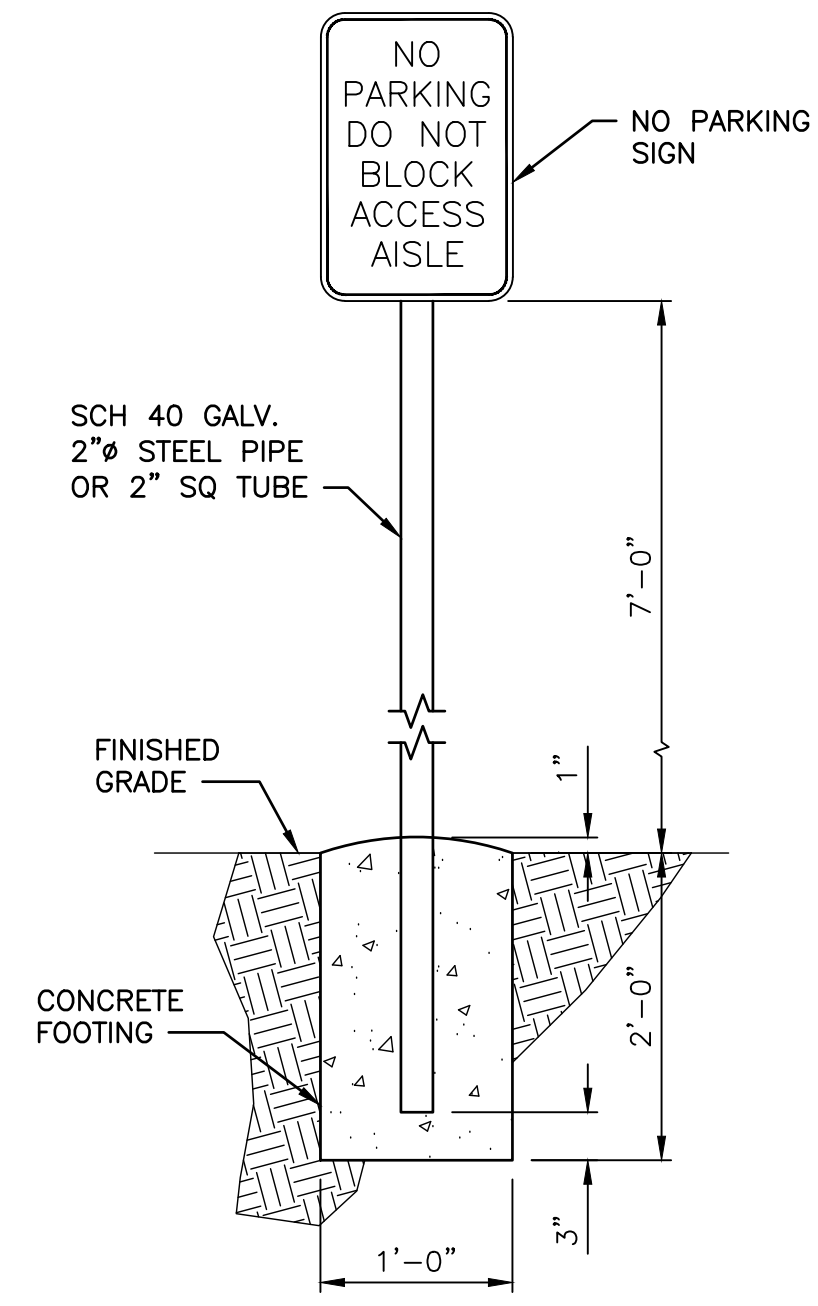
SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT
HAND LAUNCH
HAND LAUNCH PLANS, PROFILES, TABLE AND SECTION

PROJECT NO.
SH:R134:2019-2
SHEET 9 OF 17

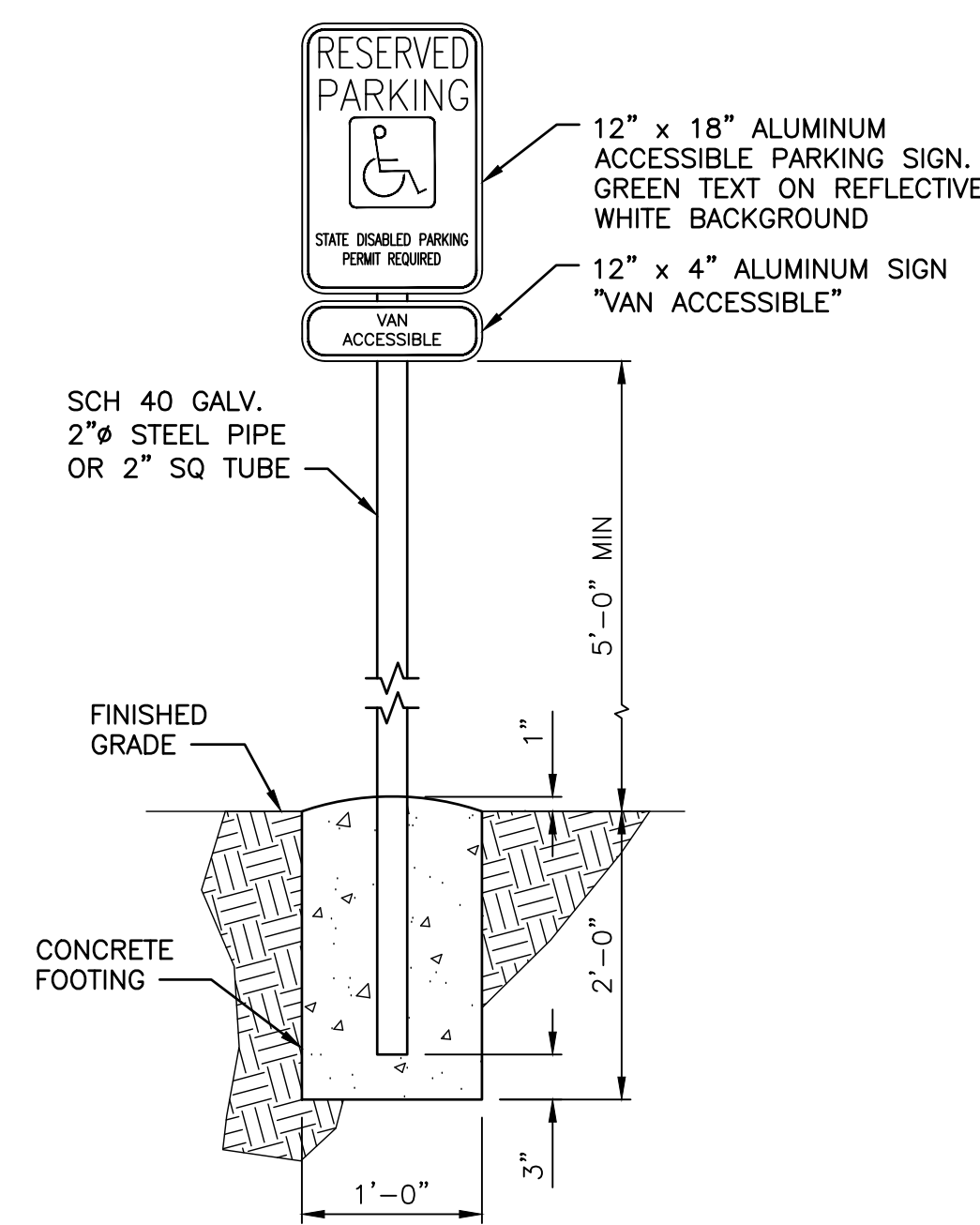
DESIGNED BY C. ALSTON
CHECKED BY D. SMITH
DRAWN BY D. HENNING
DATE 11/30/2022



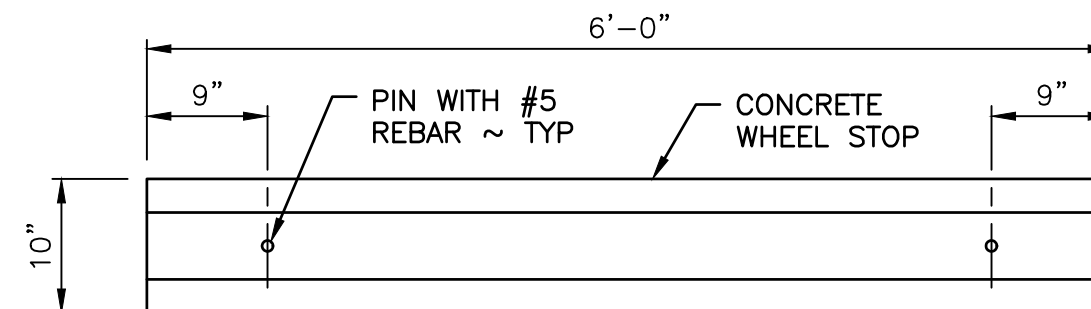
VAN ACCESSIBLE PARKING AREA
NOT TO SCALE
NOTE: 2% MAXIMUM SLOPE IN ALL DIRECTIONS.



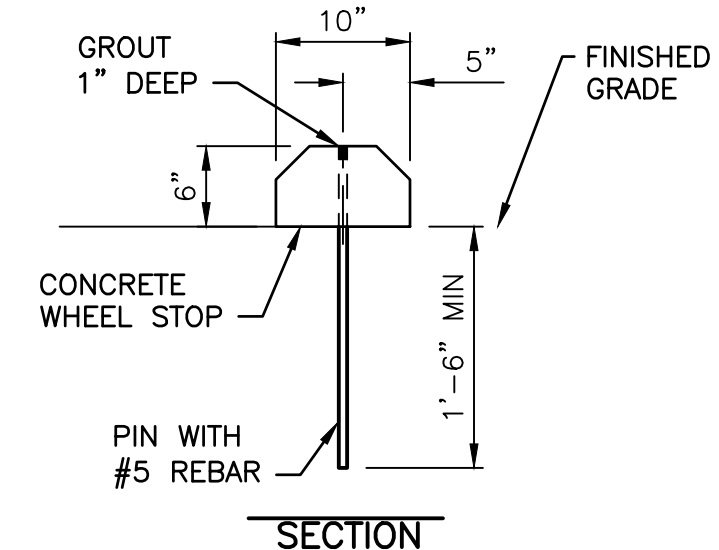
NO PARKING SIGN
NOT TO SCALE
NOTE: USE TAMPER RESISTANT NUTS TO ATTACH SIGNS TO POST.



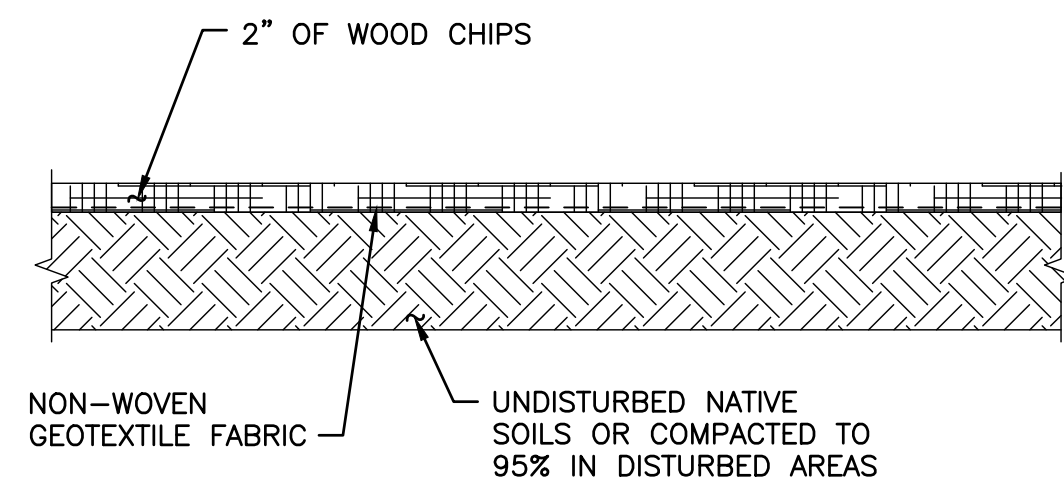
ACCESSIBLE PARKING SIGN
NOT TO SCALE
NOTE: USE TAMPER RESISTANT NUTS TO ATTACH SIGNS TO POST.



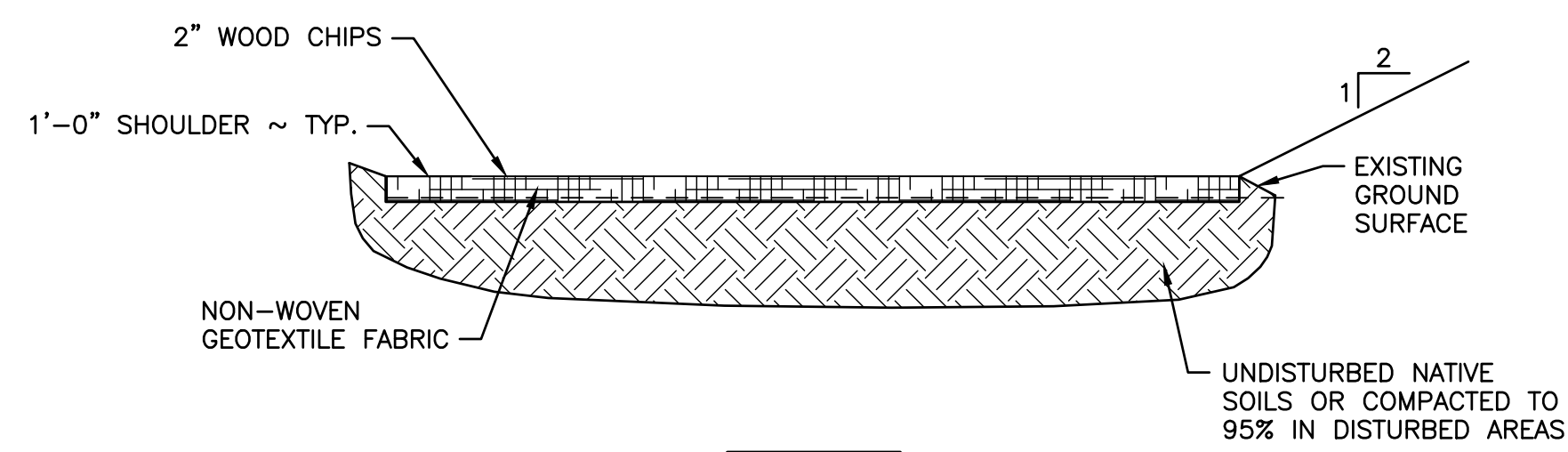
CONCRETE WHEEL STOP
NOT TO SCALE



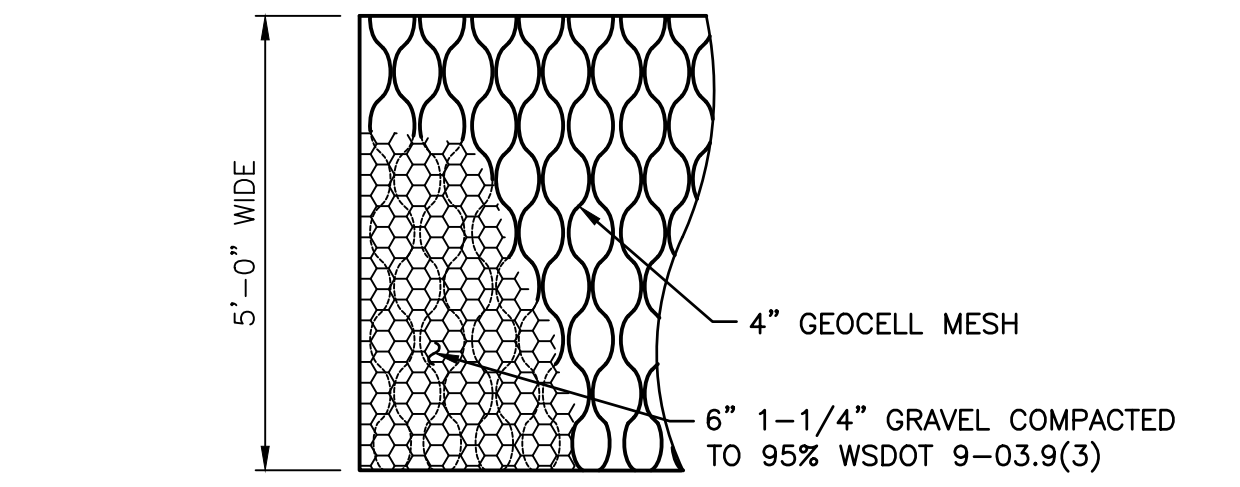
SECTION



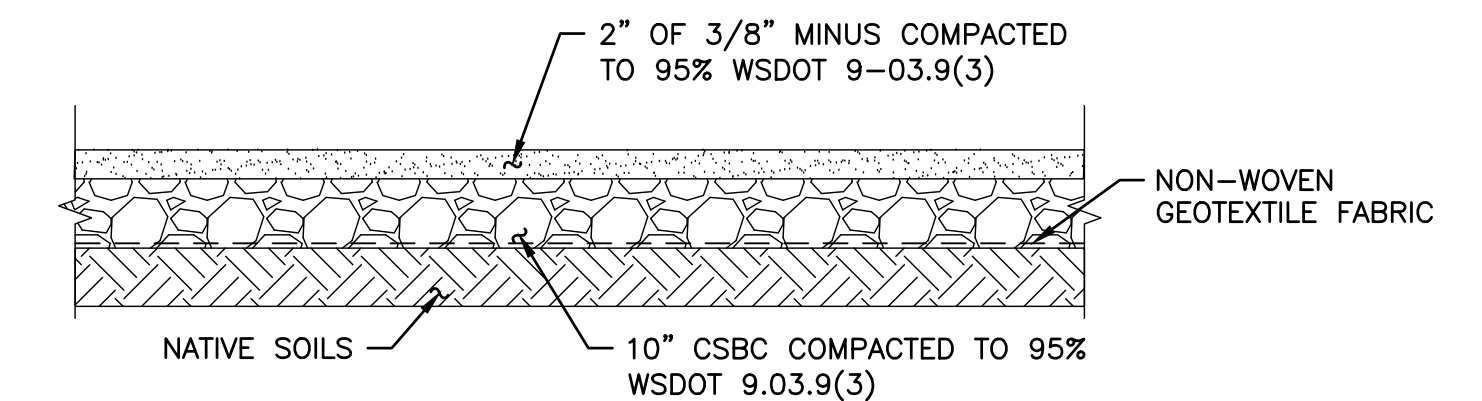
WOOD CHIP PATH DETAIL
NOT TO SCALE



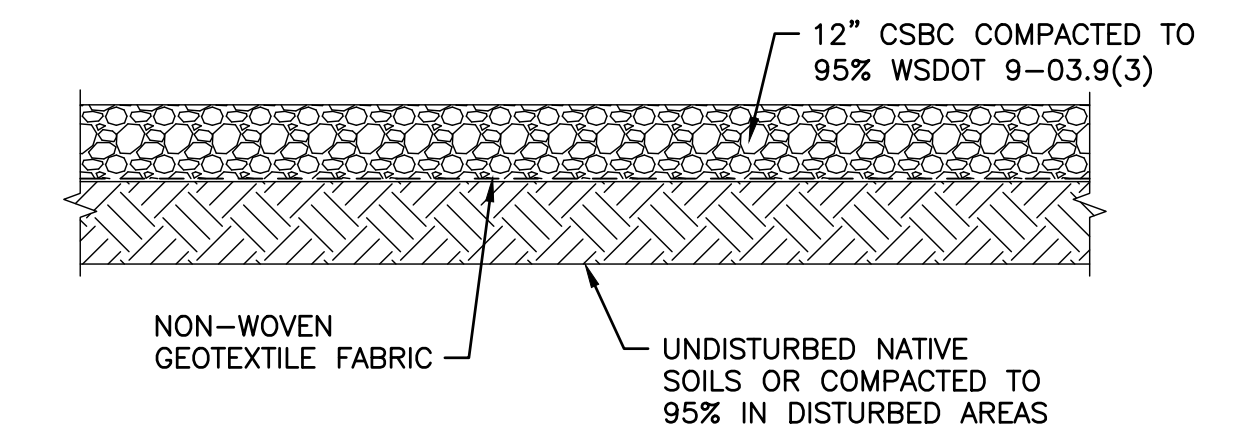
VIEW BLIND WOOD CHIP DETAIL
NOT TO SCALE
NOTE: BLIND NOT SHOWN FOR CLARITY.



GRAVEL HAND LAUNCH DETAIL
NOT TO SCALE



VAN ACCESSIBLE PARKING DETAIL
NOT TO SCALE



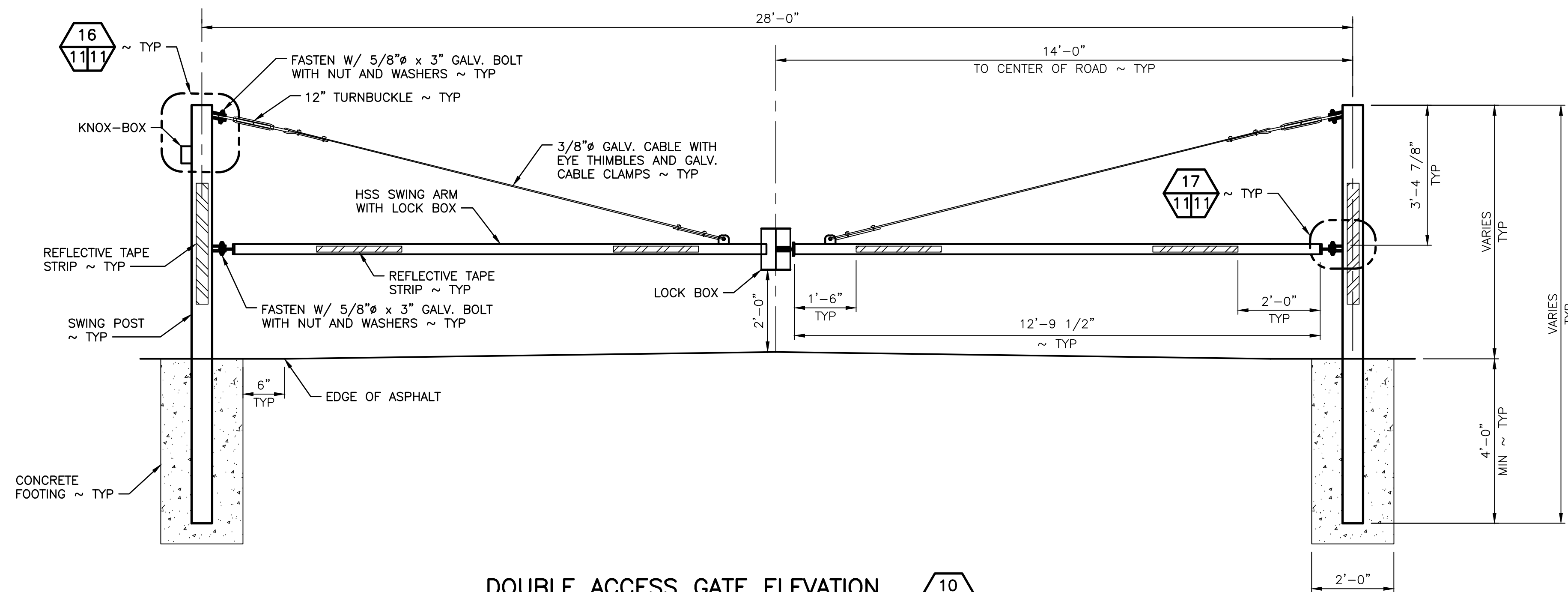
GRAVEL PARKING DETAIL
NOT TO SCALE

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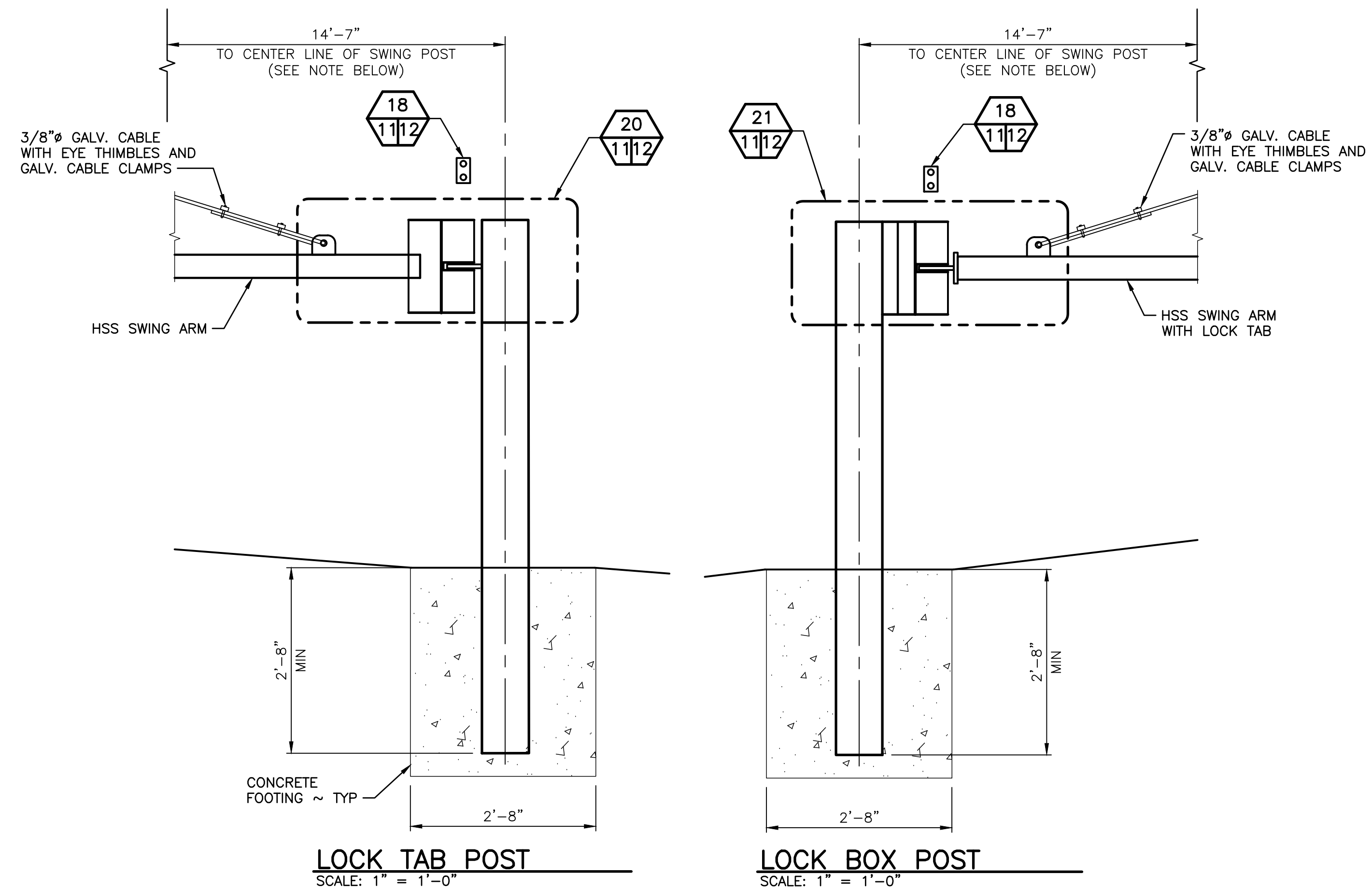
SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT
HAND LAUNCH
ACCESSIBLE PARKING, PARKING LOT, AND
PATHWAY DETAILS

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DOUBLE ACCESS GATE ELEVATION 10
711

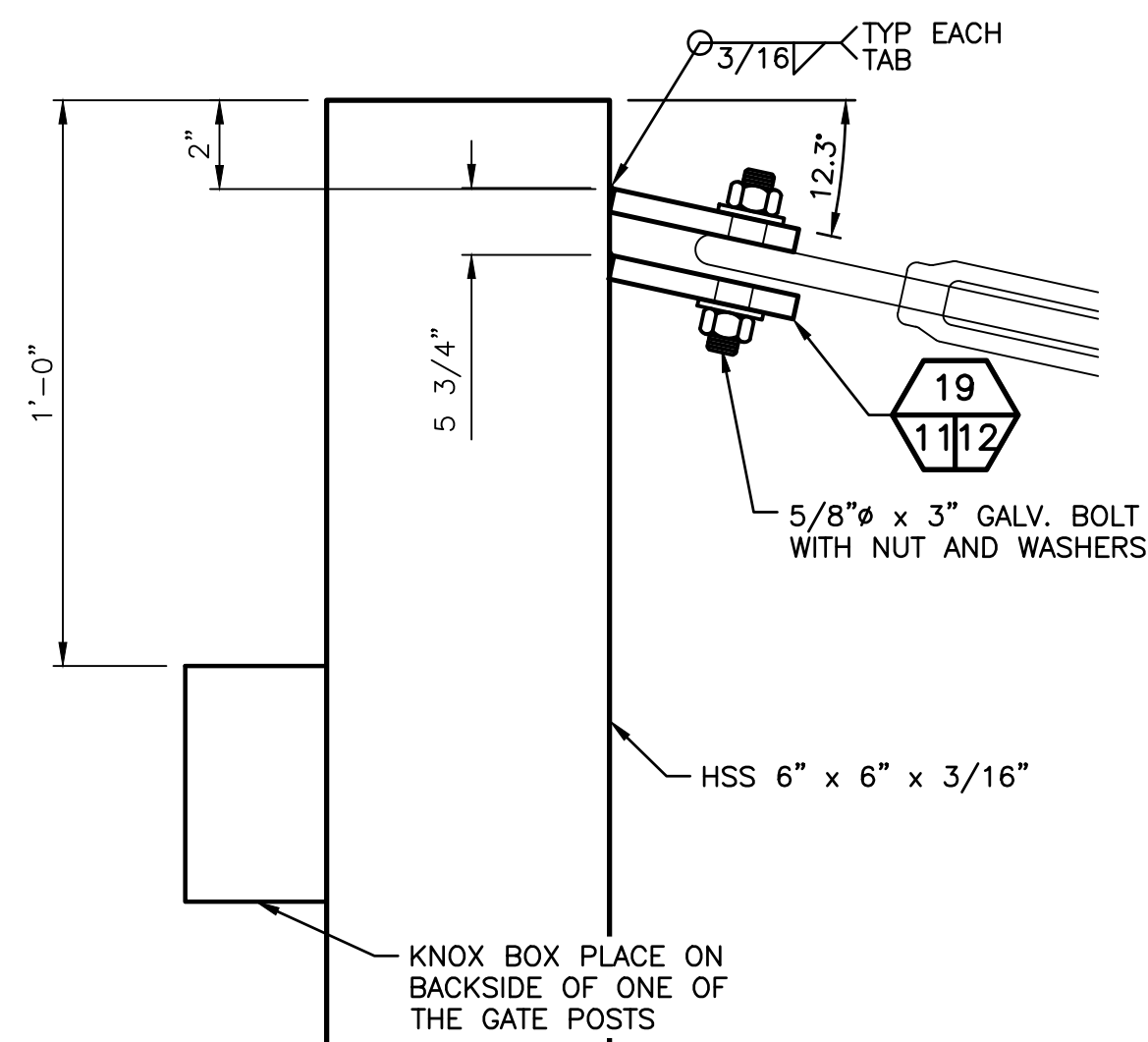
SCALE: 1/2" = 1'-0"
NOTE:
 EDGE OF PAVEMENT ELEVATIONS ON EITHER SIDE OF ROADWAY MAY VARY. EXTEND LENGTH OF SWING POST (48" MIN BURY) AND LOCK POST (24" MIN BURY) AS REQUIRED ON LOW SIDE OF ROADWAY TO ACHIEVE LEVEL SWING.



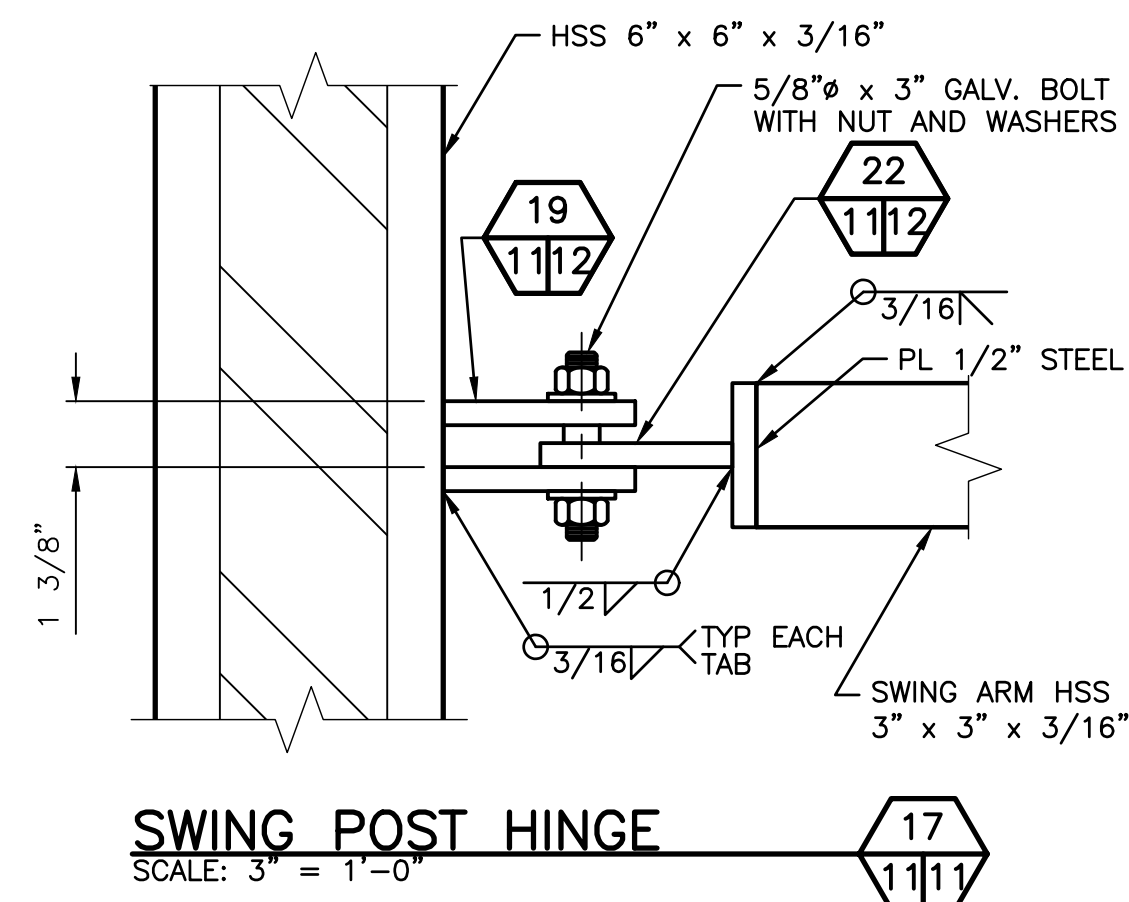
LOCK TAB POST
 SCALE: 1" = 1'-0"

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
111



SWING POST HINGE 17
111

- 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.

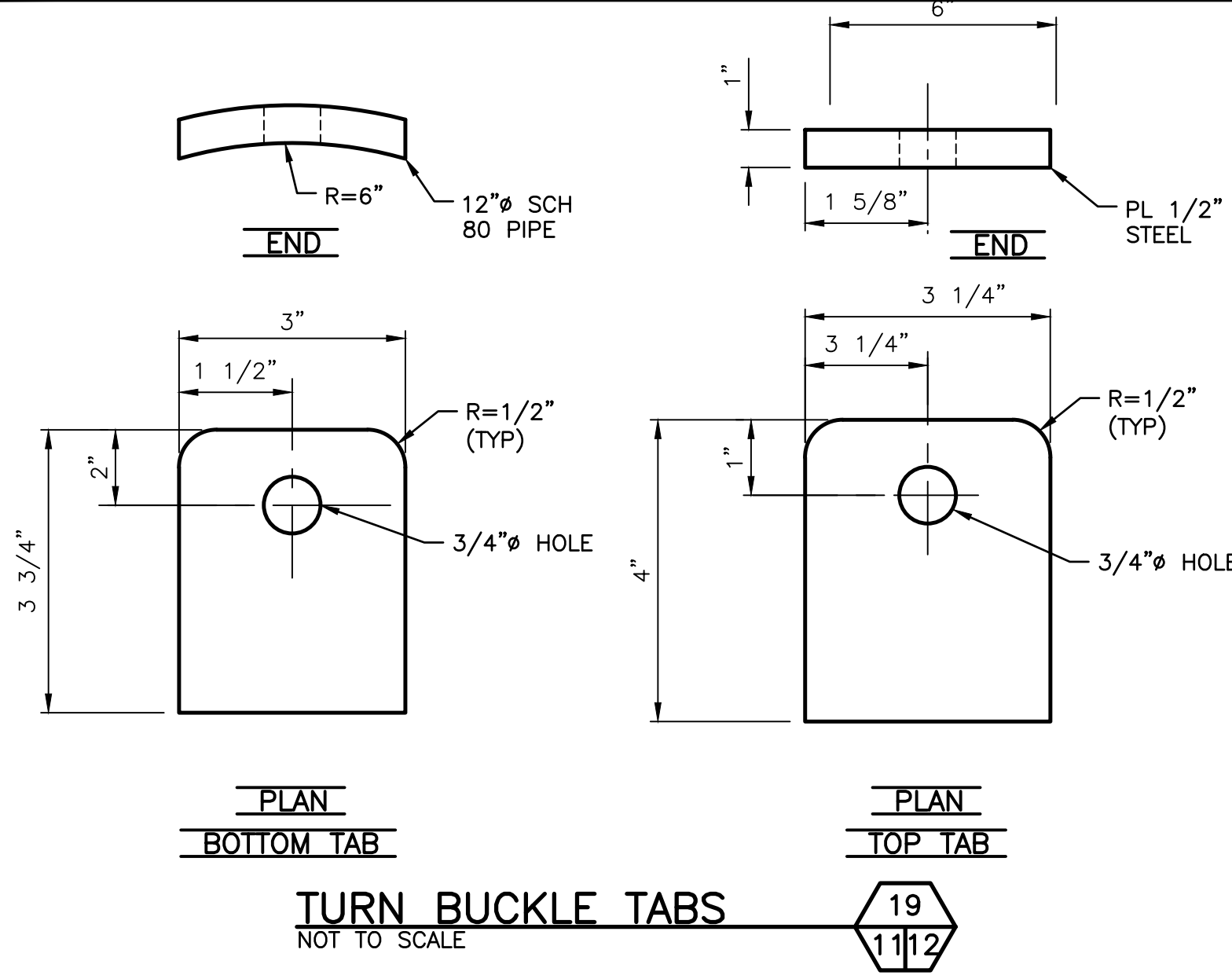
WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

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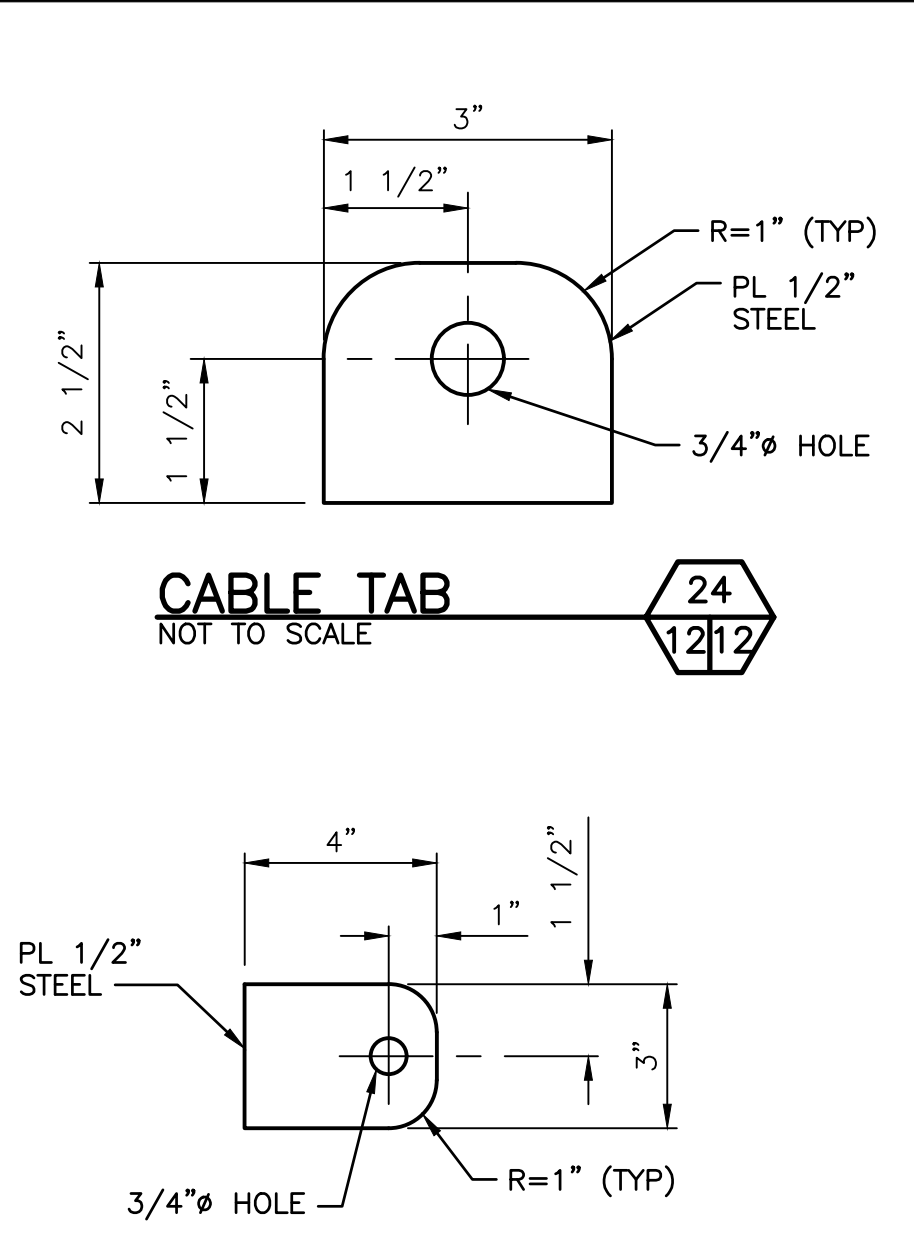
DESIGNED BY C. ALSTON
 CHECKED BY D. SMITH
 DRAWN BY D. HENNING
 DATE 11/30/2022

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

PROJECT NO.
 SH:R134:2019-2
 SHEET 11 OF 17

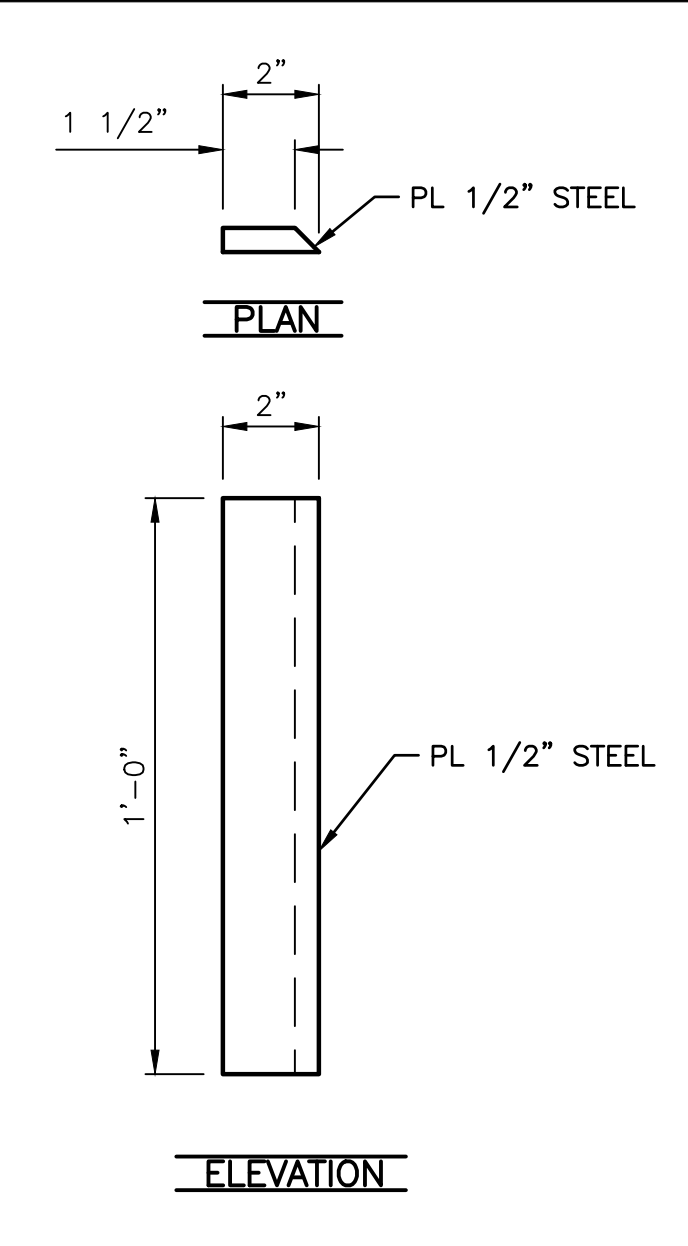


TURN BUCKLE TABS 19
SCALE: 3" = 1'-0"

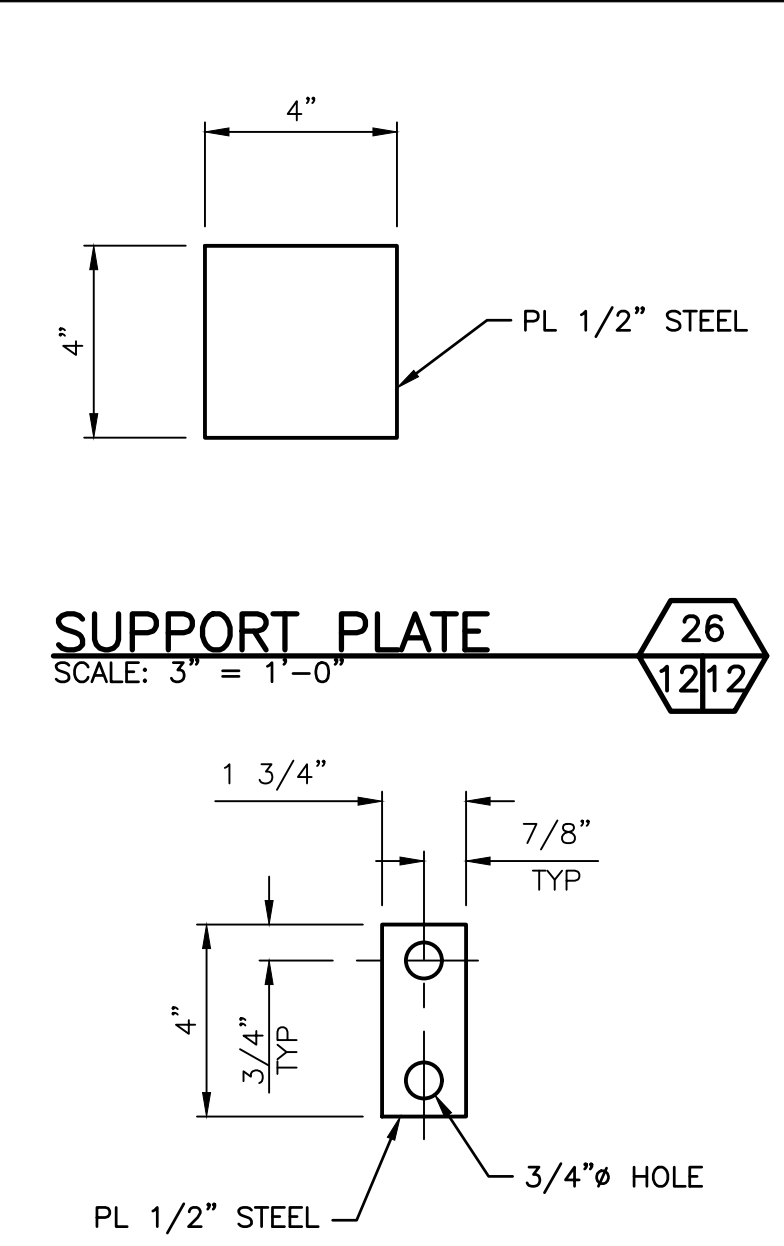


CABLE TAB 24
NOT TO SCALE

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



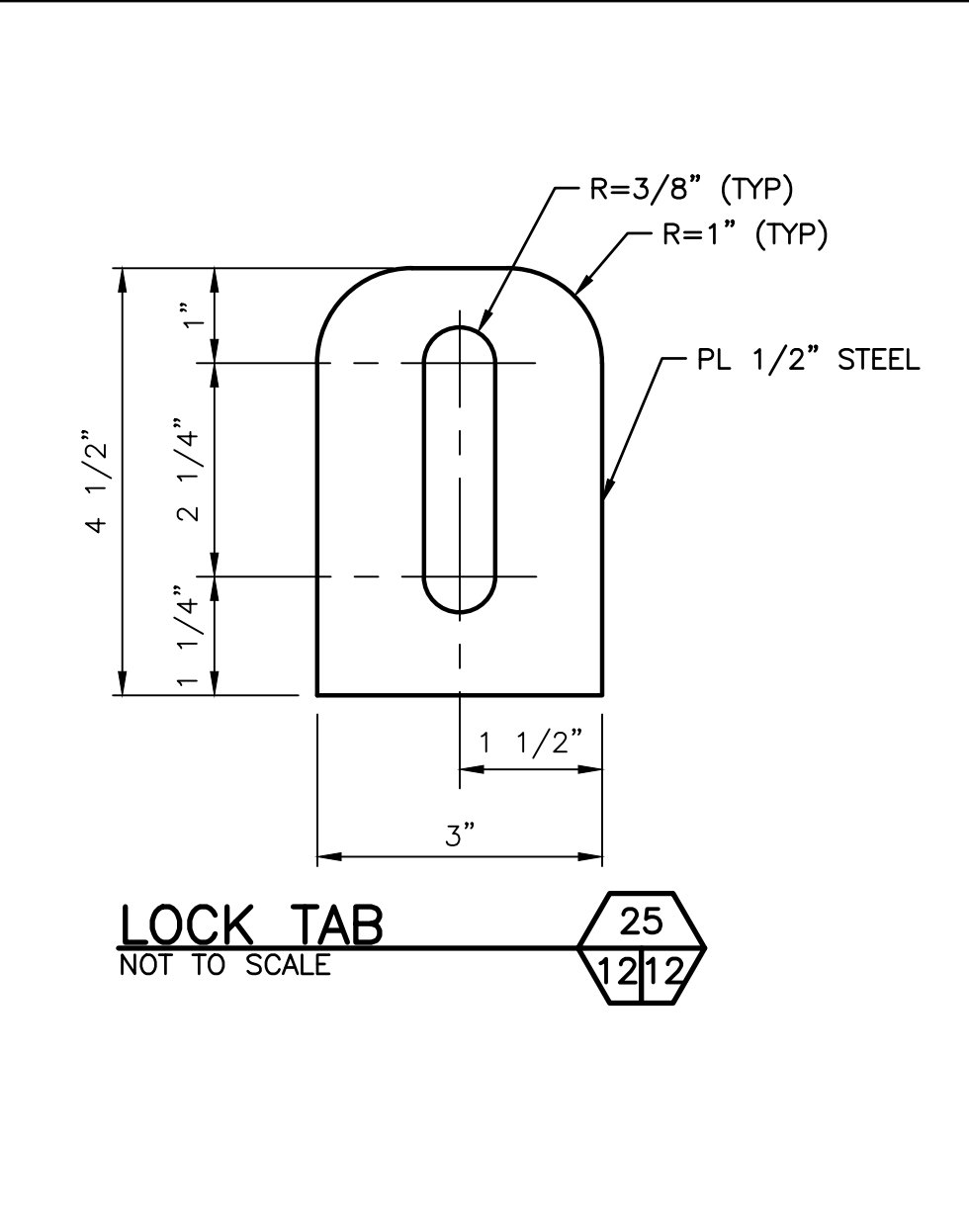
SUPPORT PLATE 23
SCALE: 3" = 1'-0"



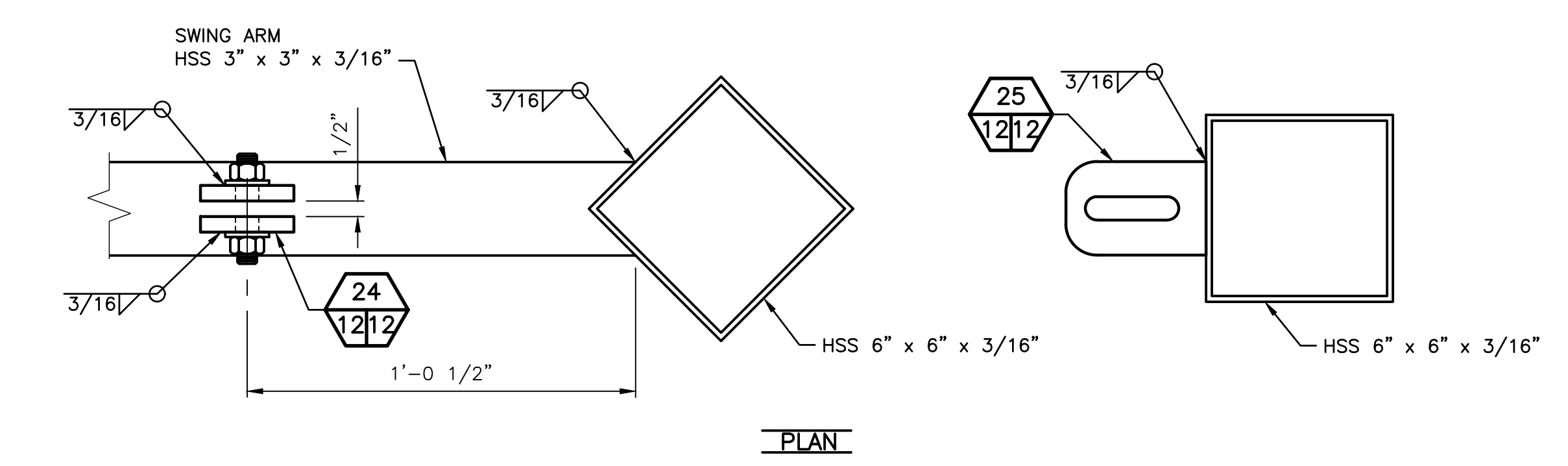
SUPPORT PLATE 26
SCALE: 3" = 1'-0"

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

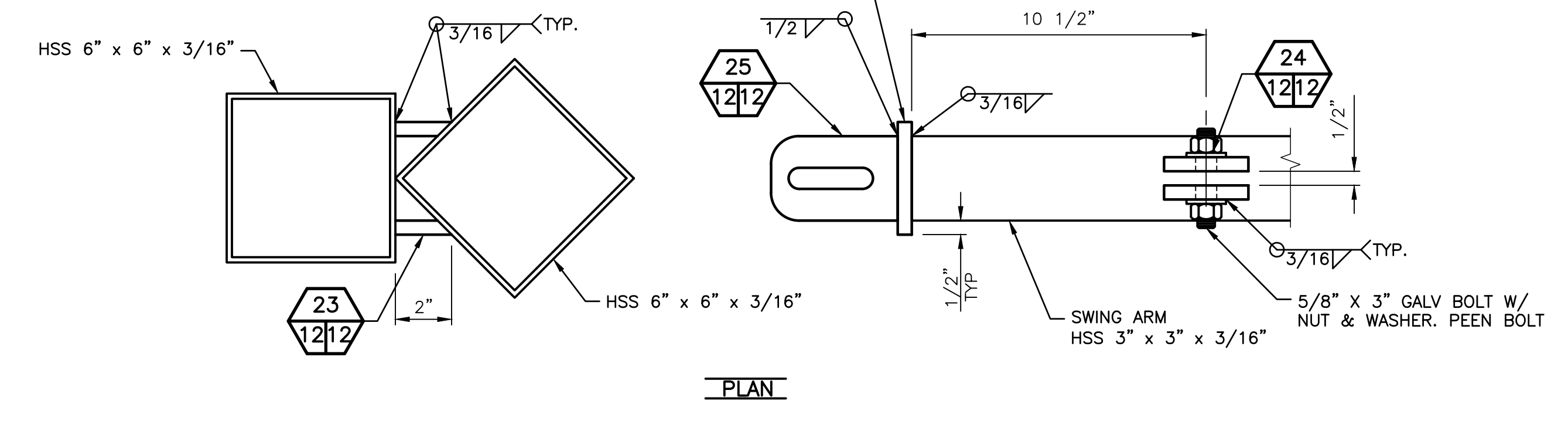
NOTE:
SUITABLE FOR TWO LOCKS



LOCK TAB 25
NOT TO SCALE



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



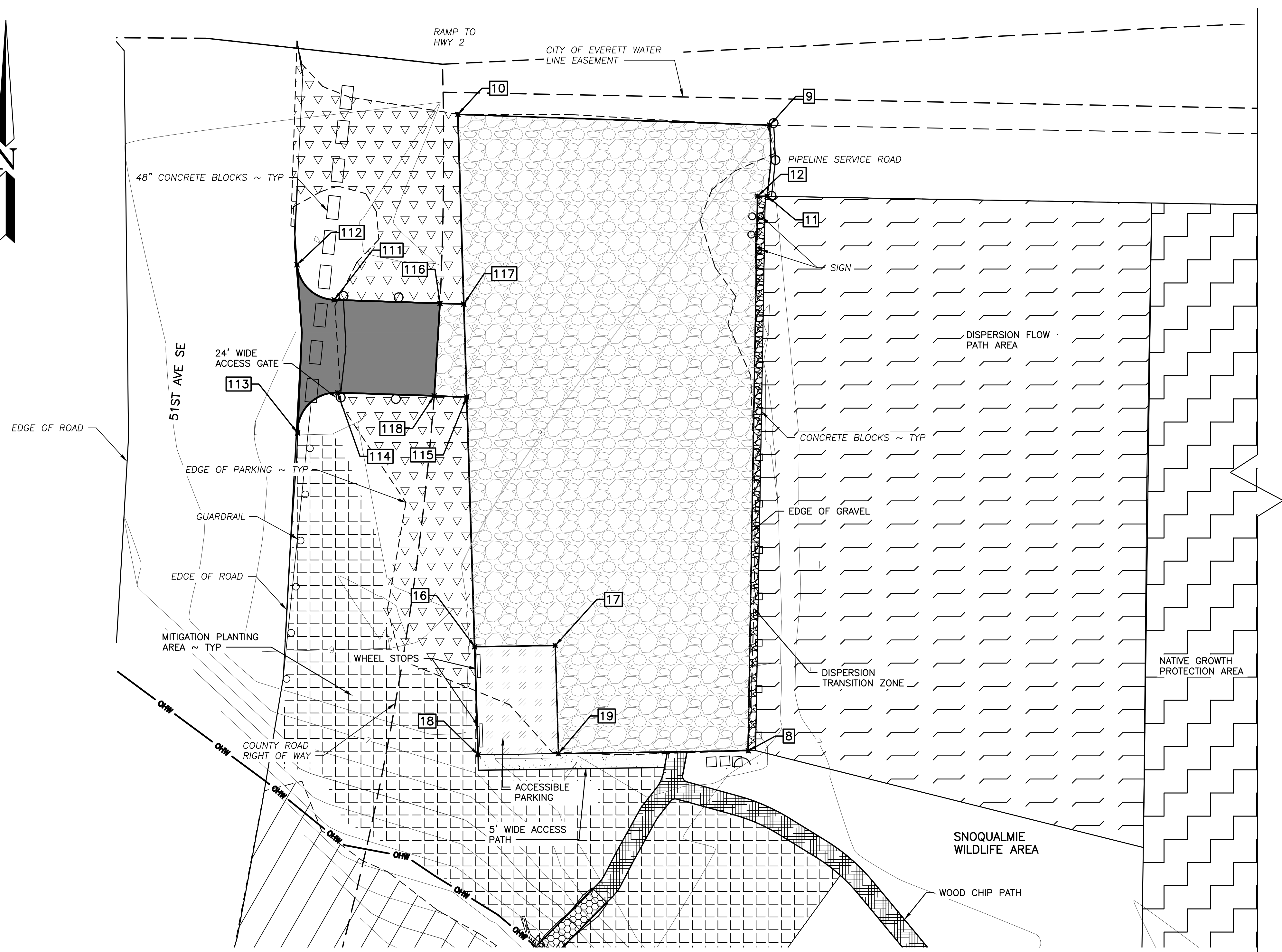
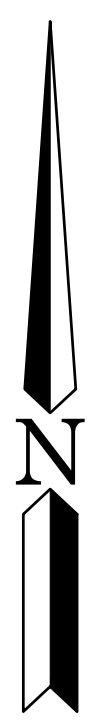
SWING ARM WITH LOCK TAB & LOCK BOX POST 21
SCALE: 3" = 1'-0"

WASHINGTON DEPARTMENT OF
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| | | DRAWN BY D. HENNING | |
| | | DATE 11/30/2022 | |

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

PROJECT NO.
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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

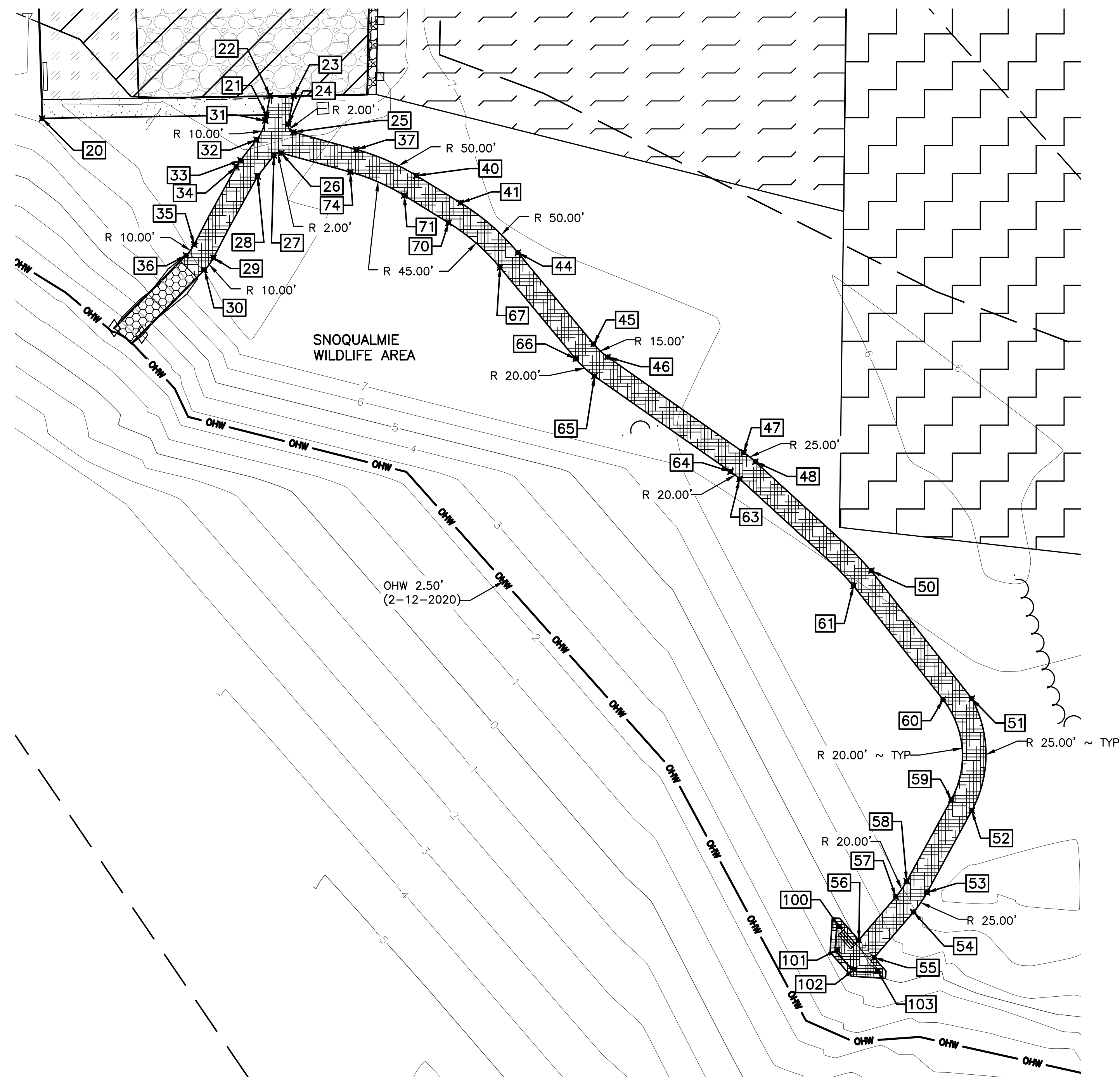
- 1-1/4" GRAVEL
- 3/8" MINUS GRAVEL
- ASPHALT (HMA)
- CSBC
- DISPERSION FLOW PATH
- HOG FUEL
- NATIVE GROWTH PROTECTION AREA
- SHEETFLOW
- VAN ACCESSIBLE PARKING
- WETLAND AREA
- WOOD CHIPS
- DISPERSION TRANSITION ZONE
- MITIGATION PLANTING AREA

WASHINGTON DEPARTMENT OF
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| | | | DRAWN BY D. HENNING |
| | | | DATE 11/30/2022 |

SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT
HAND LAUNCH
GRAVEL PARKING LOT POINT PLAN AND TABLE

| | |
|-------------------------------|----------|
| PROJECT NO. SH:R134:2019-2 | |
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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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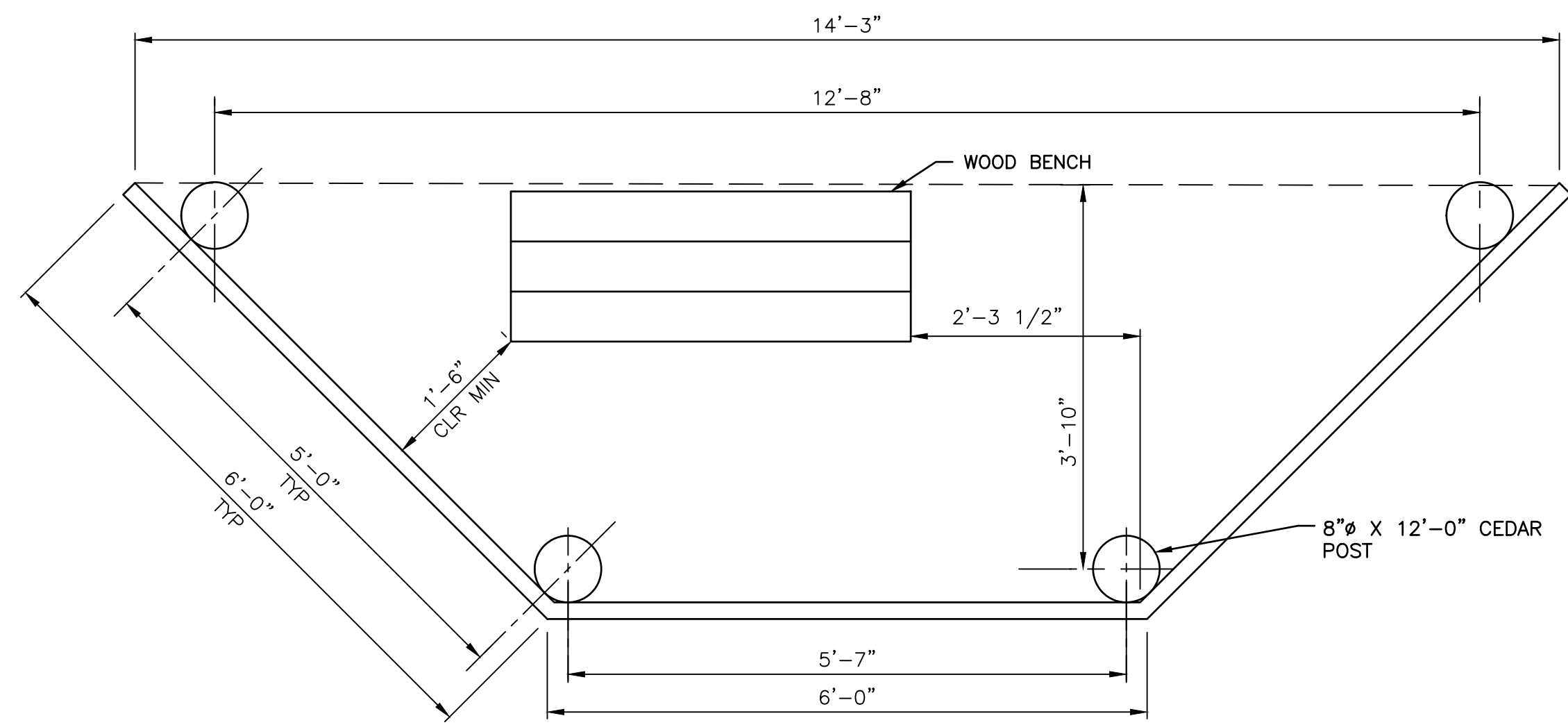
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| PROGRAM | DATE: | DRAWN BY D. HENNING | DATE 11/30/2022 |

SNOQUALMIE WILDLIFE AREA—EBEY ISLAND UNIT

HAND LAUNCH
PATHWAY PLAN AND TABLE

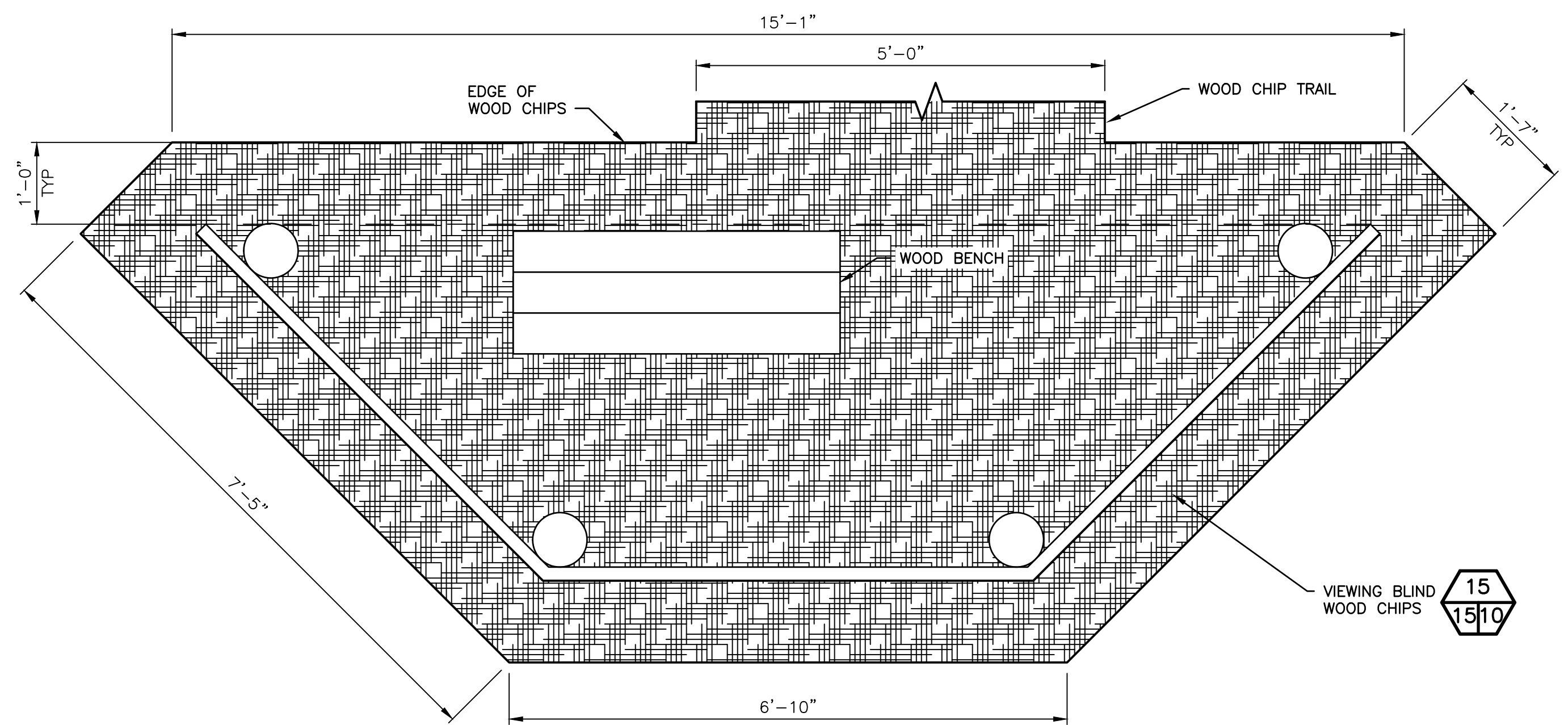
PROJECT NO.
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14 17

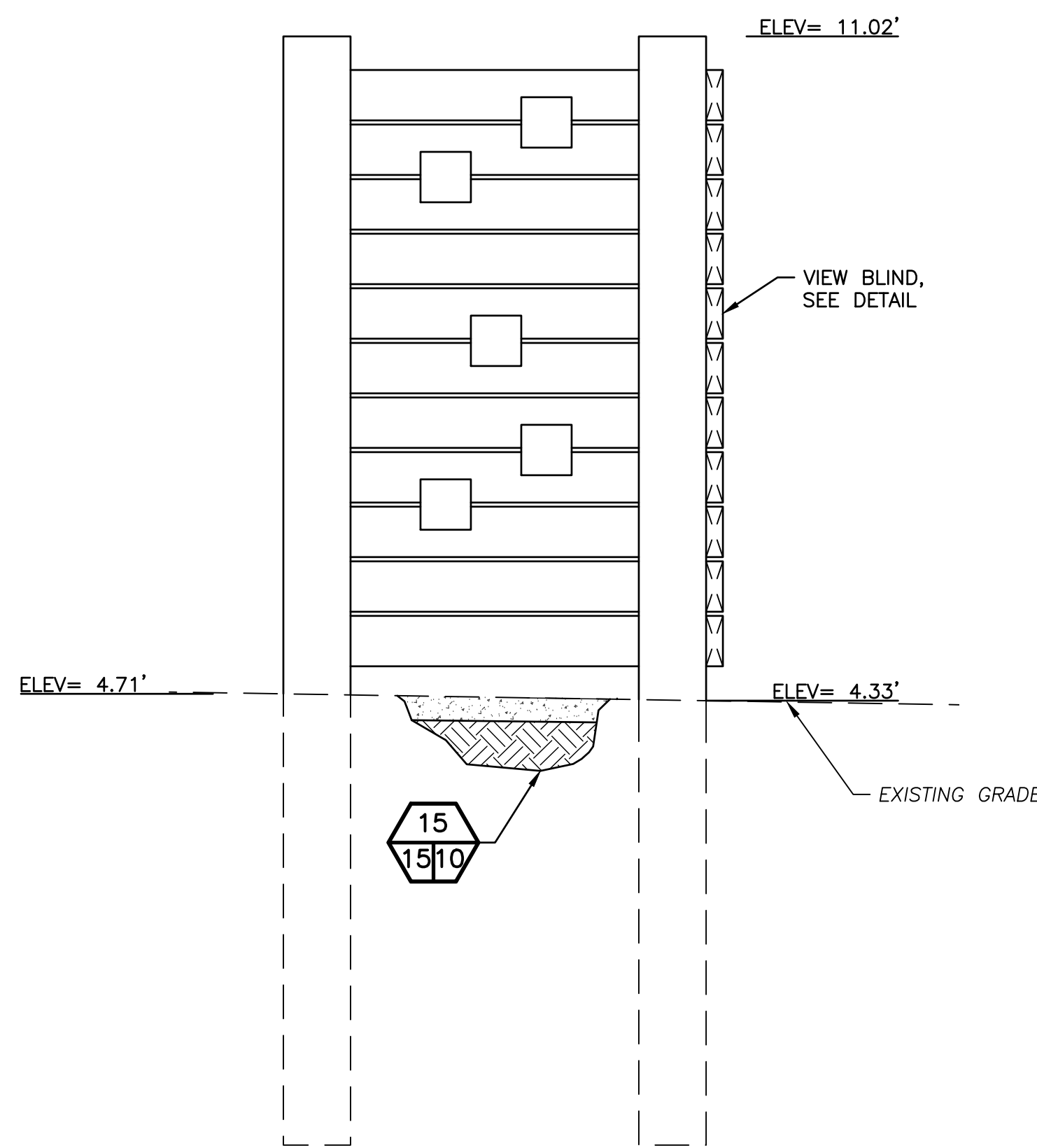


PLAN VIEW
SCALE: 3/4" = 1'-0"

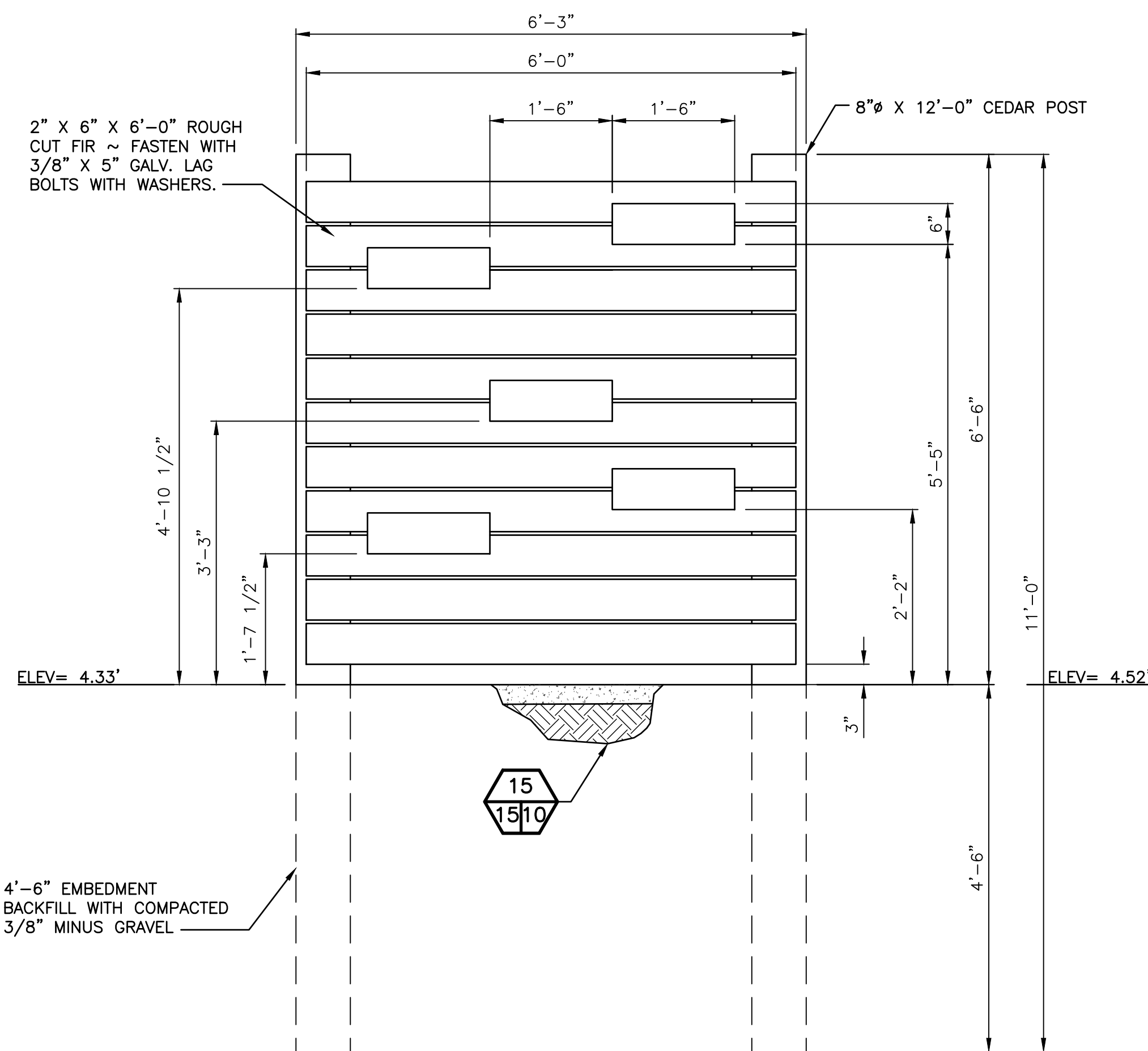
BASE FLOOD ELEVATION 17.00'



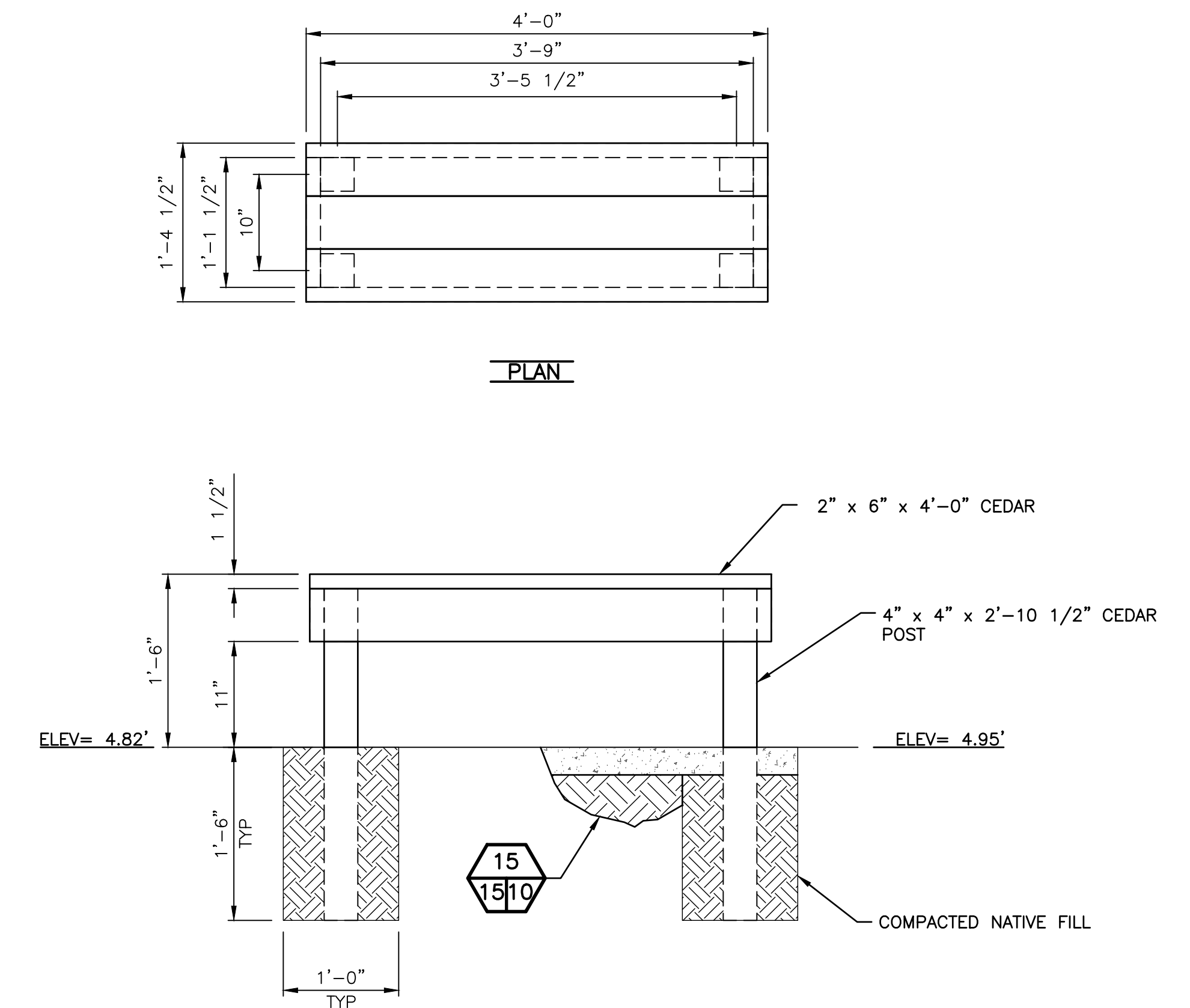
WOOD CHIP PLAN VIEW
SCALE: 3/4" = 1'-0"



SIDE ELEVATION



TYPICAL ELEVATION



WOODEN BENCH
SCALE: 1" = 1'-0"

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

NOTE:

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

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

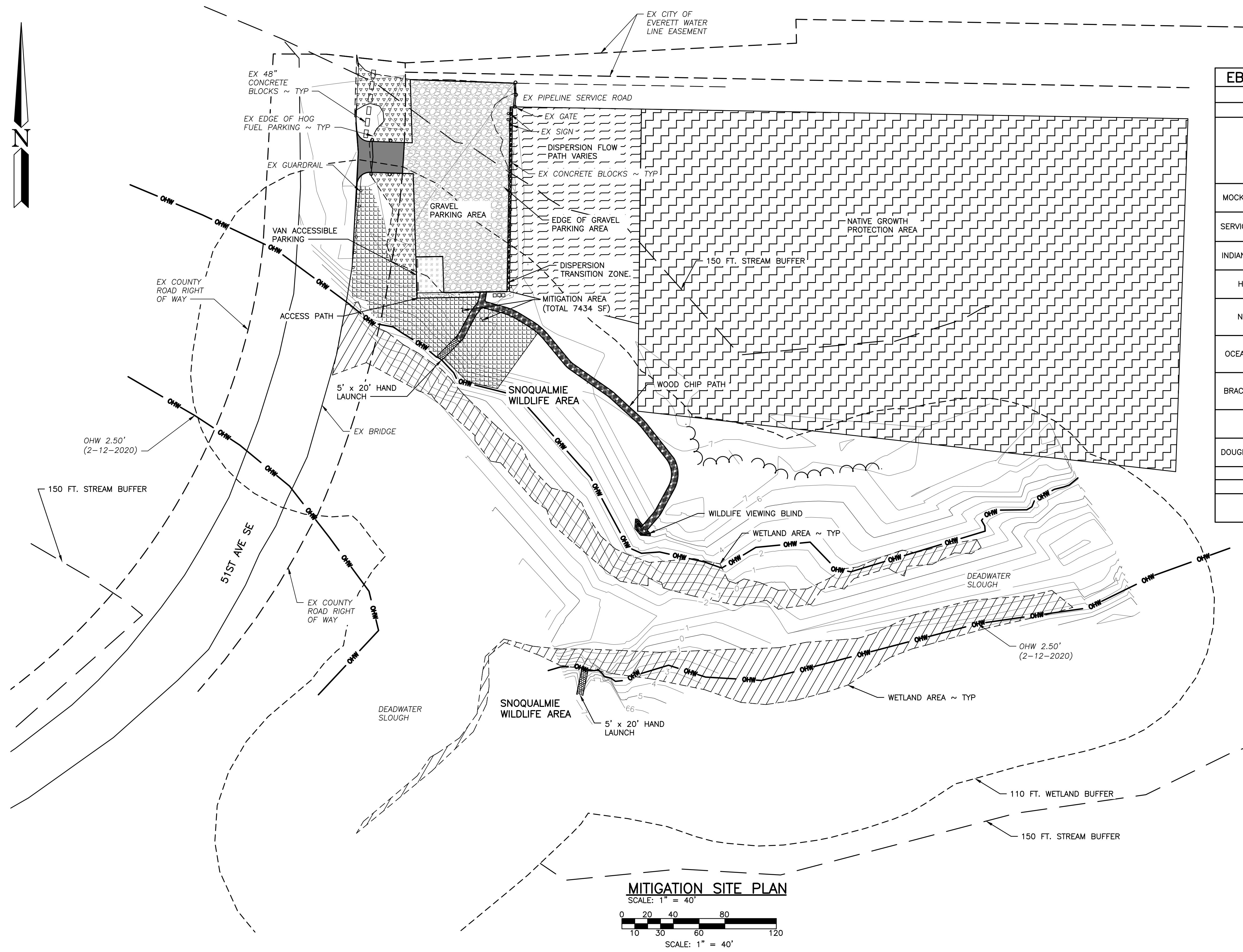
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| | | | DRAWN BY D. HENNING |
| | | | DATE 11/30/2022 |

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

PROJECT NO.
SH:R134:2019-2
SHEET 15 OF 17

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 (7,434 SF) | | | | |
| PLANTING | | | | |
| SPECIES | SIZE | QUANTITY | SPACING | REMARKS |
| MOCK ORANGE (PHILADELPHUS LEWISII) | 1 GAL | 65 | 4 FT OC | MOIST-DRY SOIL; SUN-SHADE |
| SERVICEBERRY (AMELANCHIER ALNIFOLIA) | 1 GAL | 65 | 4 FT OC | WELL DRAINED-DRY SOIL, SUN |
| INDIAN PLUM (OEMLERIA CERASIFORMIS) | 1 GAL | 65 | 4 FT OC | MOIST-DRY SOIL; SUN-SHADE |
| HAZELNUT (CORYLUS CORNUTA) | 1 GAL | 65 | 4 FT OC | MOIST-DRY SOIL; SUN-SHADE |
| NOOTKA ROSA (ROSA NUTKANA) | 1 GAL | 65 | 4 FT OC | DRY-MOIST SOIL; SUN-PARTIAL SHADE |
| OCEANSPRAY (HOLODISCUS DISCOLOR) | 1 GAL | 65 | 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 | | 465 REQUIRED, 500 PLANNED | | |
| DISPERSION PLANTING AREA (15,515 SF) | | | | |
| NATIVE WILLOW SPECIES | LIVE STAKES 18"-24" | 1,724 | 3 FT OC | |

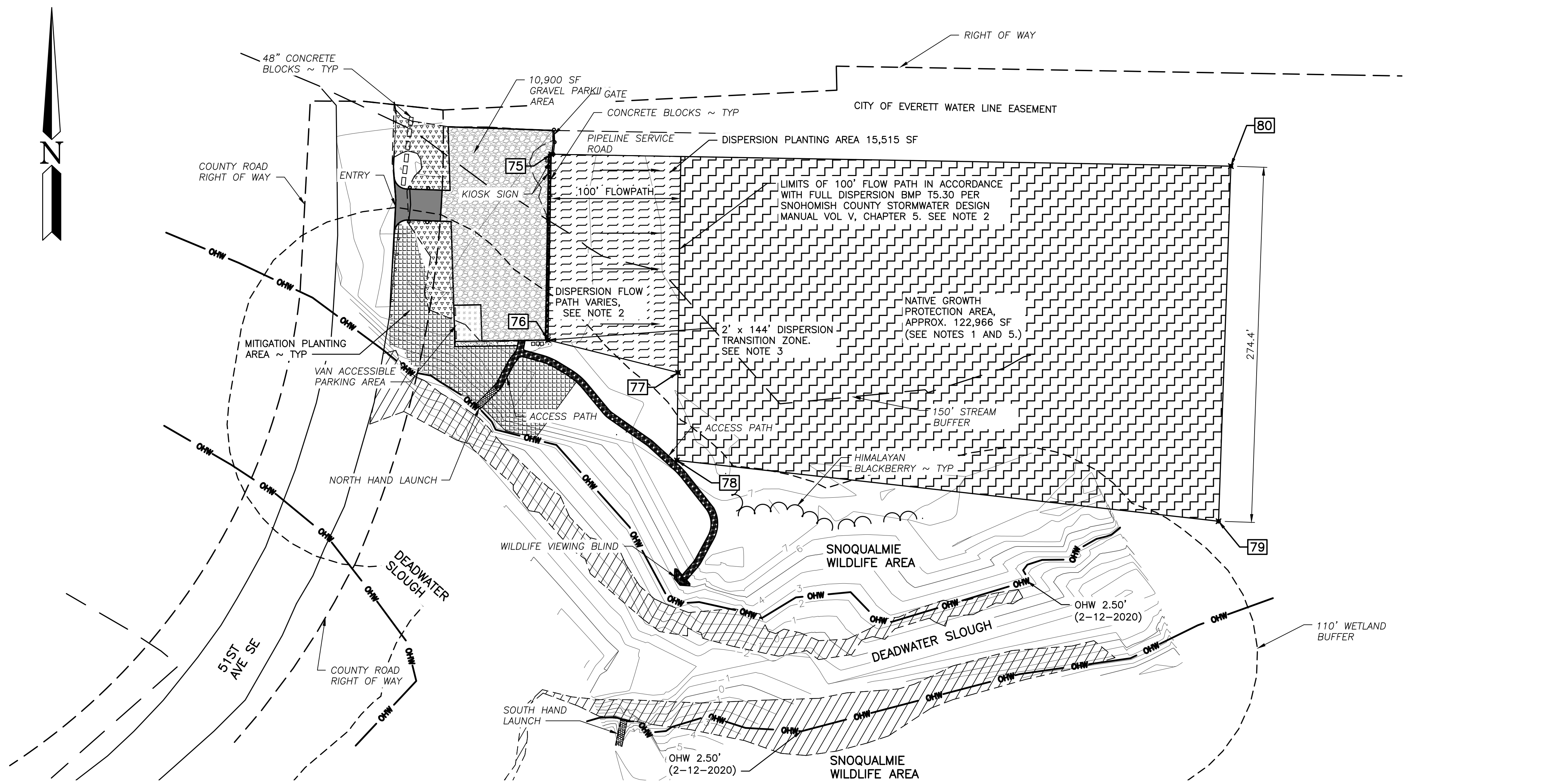


MITIGATION SITE PLAN
 SCALE: 1" = 40'
 0 20 40 80 120
 SCALE: 1" = 40'

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 | SNOQUALMIE WILDLIFE AREA-EBEY ISLAND UNIT | | | | PROJECT NO. SH:R134:2019-2 | |
| | HAND LAUNCH | | | | SHEET OF 16 17 | |
| | MITIGATION SITE PLAN, REMOVAL AND PLANTING SCHEDULE | | | | | |
| SYM DATE REVISION DESCRIPTION BY | | DESIGNED BY C. ALSTON CHECKED BY D. SMITH DRAWN BY D. HENNING DATE 11/30/2022 | | | | |
| CHIEF ENGINEER DATE: PROGRAM DATE: | | APPROVED AND RELEASED FOR CONSTRUCTION | | | | |



- 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.

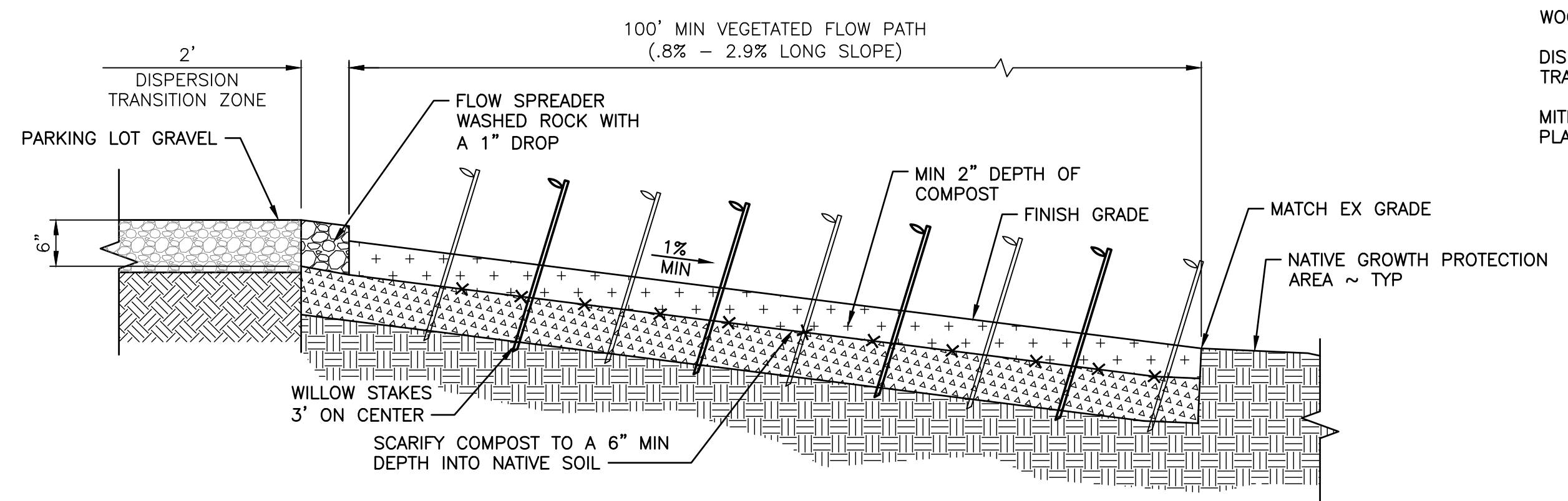
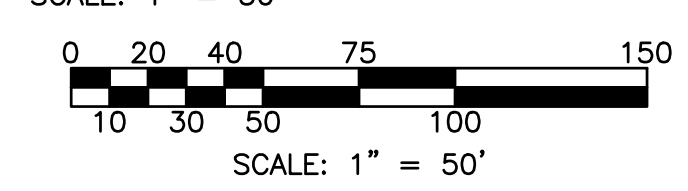
LEGEND

| | |
|-------------------------------|--|
| 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



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 11/30/2022 |

SNOQUALMIE WILDLIFE AREA-EBEY ISLAND UNIT
HAND LAUNCH
FULL DISPERSION SITE PLAN

| | |
|-------------------------------|----------|
| PROJECT NO. SH:R134:2019-2 | |
| SHEET 17 | OF 17 |