

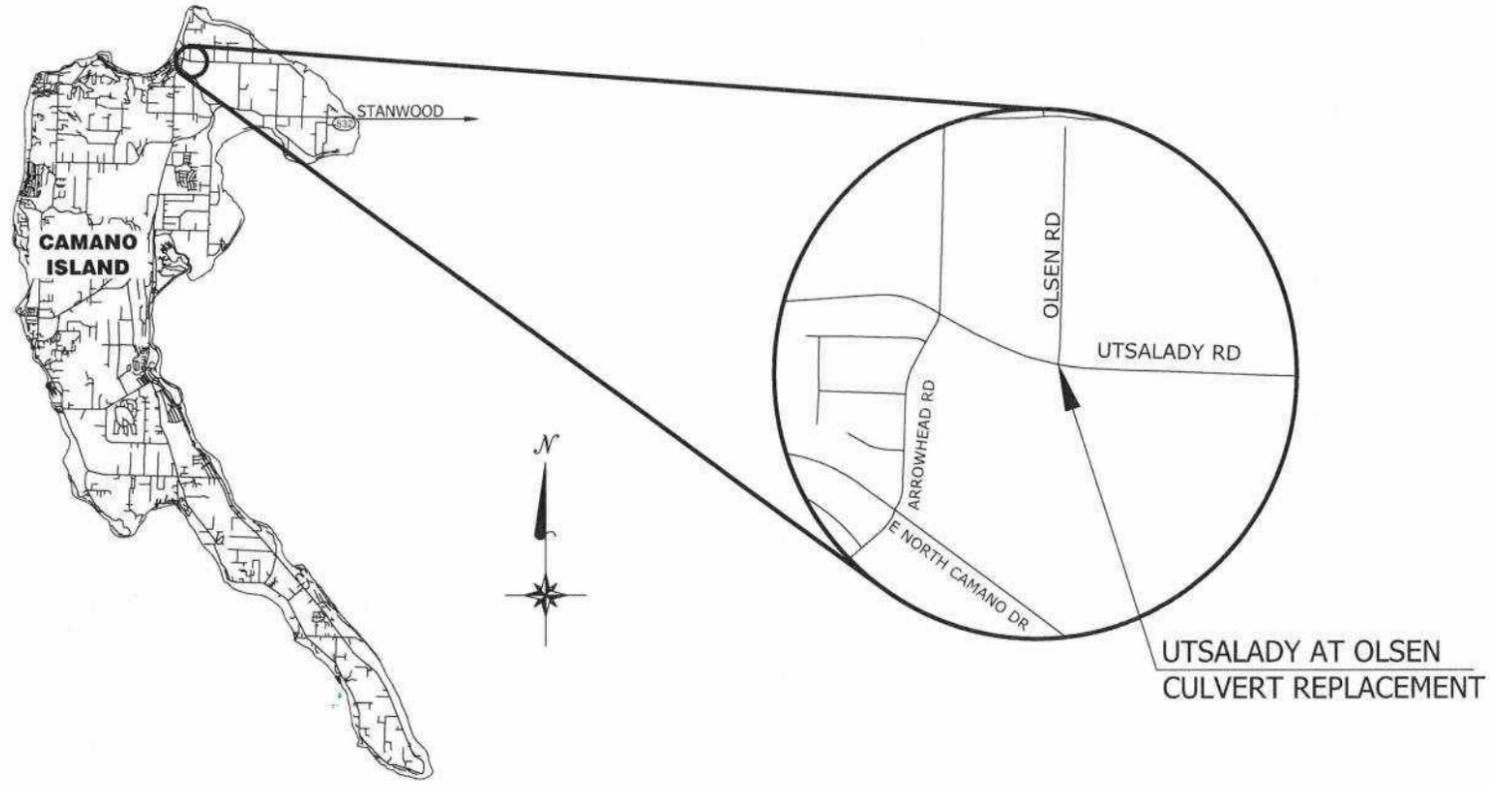
ISLAND COUNTY PUBLIC WORKS CAMANO ISLAND, WASHINGTON

CONTRACT PLANS

FOR CONSTRUCTION OF:

UTSALADY AT OLSEN CULVERT REPLACEMENT

JL No. 00601-1201 C.R.P. NO. 25-05



ISLAND COUNTY COMMISSIONERS

Melanie Bacon, DISTRICT 1
Jill Johnson, DISTRICT 2
Janet St. Clair, DISTRICT 3

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- SURVEY NOTES:**
1. HORIZONTAL DATUM BASED ON THE WASHINGTON COORDINATE SYSTEM, NORTH ZONE, NAD 83/91.
 2. VERTICAL DATUM BASED ON NAVD 88.
 3. UTILITY INFORMATION SHOWN HEREON IS APPROXIMATE. CALL 811 TO HAVE UTILITIES MARKED ON THE GROUND BEFORE YOU DIG.



RECOMMENDED FOR APPROVAL:

Nick Tuttle
ENGINEERING MANAGER

APPROVED BY:

Edward Sewester, P.E.
COUNTY ENGINEER

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ISLAND COUNTY ENGINEER
1 NE 6th Street
Coupeville, WA 98239-5000
T. 360-679-7331 F. 360-678-4550

SURVEYED BY: Christoff Schnobrich SURVEYOR	DATE STARTED: 06-2022
DRAWN/DESIGNED BY: Edison Manglicmot	DATE STARTED: 06-2022
PROJECT MANAGER Mohammed Al Saffar	INITIAL DATE MA 6/3/24
CHECKED BY: Nick Tuttle ENGINEERING MANAGER	INITIAL DATE NT 6/3/24



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2/9/2024	80% REVISION	EAM
11/19/2024	90% REVISION	EAM
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SCALE:
N.T.S.



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COVER SHEET	

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SURVEY FEATURES:

EXISTING:

- △ PKNAIL/SPIKE/NAIL SHINER
- CORNER-PROPERTY
- FOUND IRON PIPE
- FOUND REBAR
- ← POWER GUY
- ⊙ POWER POLE
- ⊙ LUMINAIR
- ⊙ TRAFFIC LIGHT POLE
- ⊙ STREET SIGN
- ⊙ STREET NAME SIGN
- ⊙ TELEPHONE PED

PLAN:

EXISTING LINE WORKS:

- XROAD—XROAD— EXISTING ROAD CENTERLINE
- XEDA—XEDA— EXISTING EDGE OF ASPHALT
- XTGE—XTGE— EXISTING TOE OF SLOPE
- XTGB—XTGB— EXISTING TOP OF BANK
- — — EXISTING EDGE LINE
- — — EXISTING DITCH
- — — EXISTING CULVERT
- WETLAND— EXISTING WETLAND
- OHP—OHP— EXISTING OVERHEAD POWERLINE
- UTEL—UTEL— UNDERGROUND TELEPHONE LINE
- GAS—GAS— UNDERGROUND GAS LINE
- UWL—UWL— UNDERGROUND WATER LINE

NEW LINE WORKS:

- — — NEW FEATURES CENTERLINE
- — — NEW DITCH CENTERLINE
- — — NEW CULVERT
- SAWCUT— SAW CUT ASPHALT
- CP— NEW CATCH POINT
- C&G— CLEARING LIMITS
- SILT— SILT FENCE

RIGHT-OF-WAY:

EXISTING:

- XROW— EXISTING RIGHT-OF-WAY CENTERLINE
- XROW— EXISTING RIGHT-OF-WAY LINE
- D-ESMT— EXISTING DRAINAGE EASEMENT LINE
- — — PROPERTY OWNERSHIP AND NUMBER
- — — EXISTING SECTION LINE
- — — EXISTING QUARTER LINE
- — — EXISTING 16th LINE
- — — PROPERTY LINE AND OWNERSHIP DOTS

NEW:

- NROW— NEW RIGHT-OF-WAY LINE
- XROW— NEW RIGHT-OF-WAY CENTERLINE
- ND-ESMT— NEW DRAINAGE EASEMENT LINE
- PWS-ESMT— PERMANENT WALL AND SLOPE EASEMENT LINE
- PM-ESMT— PERMANENT MAINTENANCE EASEMENT LINE
- TC-ESMT— TEMPORARY CONSTRUCTION EASEMENT LINE

HATCH:

- — — NEW DRAINAGE EASEMENT AREA

ABBREVIATION:

ALIGN ALIGNMENT	ESMT EASEMENT	MC MON-CONTROL	PVMT PAVEMENT	TESC TEMPORARY EROSION AND SEDIMENT CONTROL
CDF CONTROL DENSITY FILL	EXIST / X EXISTING	MIC MON-IN-CASE	PWR POWER	TPD TEL PEDESTAL
CNTR / C CENTERLINE	FT / ' FEET	ML MATCH LINE	RBC REBAR CAP	TYP TYPICAL
CONC CONCRETE	FG FINISH GRADE	MS MON-SURFACE	ROW RIGHT-OF-WAY	XEOA EXISTING EDGE OF ASPHALT
CONST CONSTRUCTION	HMA HOT MIX ASPHALT	N NEW	RT RIGHT	XROW EXISTING RIGHT-OF-WAY LINE
CORR CORRIDOR	HORIZ HORIZONTAL	NROW NEW ROW-OF-WAY LINE	S SLOPE (%)	
CP CATCH POINT	HT HEIGHT	NLS NAIL SHINER	SECT SECTION	
CSTC CRUSHED SURFACING TOP COURSE	I.E. INVERT ELEVATION	NTS NOT TO SCALE	SHLD SHOULDER	
CSBC CRUSHED SURFACING BASE COURSE	in / " INCH	O.C. ON CENTER	SPK SPIKE	
CULV CULVERT	IP IRON PIPE	O.D. OUTSIDE DIAMETER	STA STATION	
D-ESMT DRAINAGE EASEMENT	L. F. LINEAR FEET	OHW ORDINARY HIGH WATER	SNO OTHER SIGN	
DIA/Ø DIAMETER	LT LEFT	PG PWR GUY	SNSL SPEED LIMIT SIGN	
DWY DRIVEWAY	LWM LARGE WOODY MATERIAL	PGP PWR GUY POLE	SNSTA STOP AHEAD SIGN	
EG EXISTING GROUND	MBX MAILBOX	PKN PKNAIL	SNSTP STOP SIGN	
EL/ELEV ELEVATION	MIN MINIMUM	PP POWER POLE	SNSTR STREET NAME SIGN	
	MINR MINOR	PROF PROFILE		
	MON MONUMENT			

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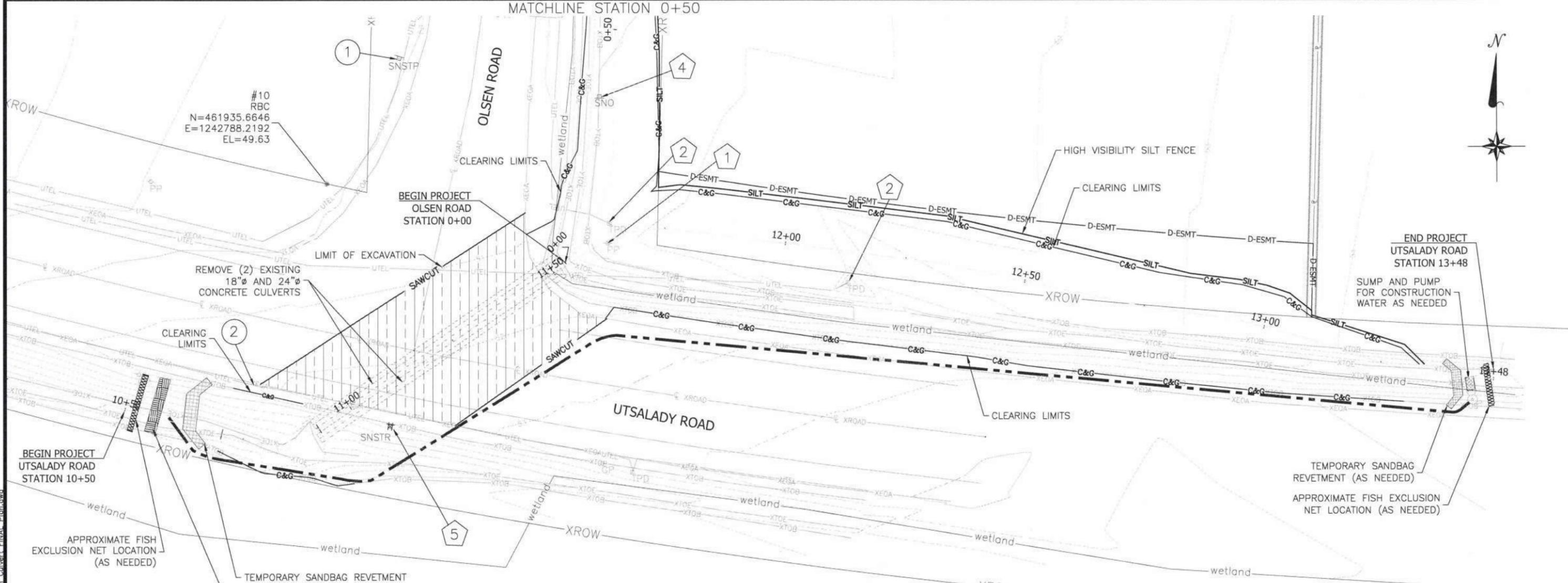


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**UTSALADY @ OLSEN
CULVERT REPLACEMENT**

LEGEND, ABBREVIATIONS AND LINETYPES

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LEGEND:

- ASPHALT TO BE REMOVED
- BIODEGRADABLE CHECK DAM
- CLEARING LIMIT
- LIMIT OF EXCAVATION
- SAWCUT
- SAWCUT ASPHALT
- FISH EXCLUSION NET
- PUMP
- TEMPORARY SANDBAG REVETMENT
- STREAM DIVERSION CONVEYANCE PIPE
- HIGH VISIBILITY SILT FENCE

CONSTRUCTION NOTES:

- ① POWER POLE AND OVERHEAD UTILITIES TO BE MOVED BY OTHERS
- ② TELEPHONE PEDESTAL AND UNDERGROUND TELEPHONE TO BE MOVED BY OTHERS
- ③ SPEED LIMIT SIGN TO BE RELOCATED.
- ④ DEAD END SIGN TO BE RELOCATED.
- ⑤ STREET NAME SIGN TO BE RELOCATED.
- ① PRESERVE AND PROTECT STOP SIGN.
- ② FIBER OPTICS UNDERGROUND TELEPHONE

GENERAL NOTES:

1. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENTS TO SURFACE WATER, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES ARE MINIMIZED.
2. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND BE MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS.
3. CLEARING, GRUBBING, AND GRADING SHALL BE CONTAINED WITHIN THE LIMITS ESTABLISHED BY THE ENGINEER. ALL VEGETATION OUTSIDE DESIGNATED LIMITS SHALL REMAIN UNDISTURBED.
4. ALL VEGETATION OUTSIDE THE RIGHT-OF-WAY AND CONSTRUCTION EASEMENT AREA SHALL BE SAVED AND PROTECTED.
5. ALL STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND PROTECTED FROM EROSION BY MECHANICAL OR VEGETATIVE MEANS.
6. ALL EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY SEEDING, MULCHING, MATTING OR PLASTIC COVERING. FROM OCT. 1 TO APRIL 30, NO SOIL SHALL REMAIN UNSTABILIZED FOR MORE THAN 2 CALENDAR DAYS. FROM MAY 1 TO SEPT. 30, NO SOIL SHALL REMAIN UNSTABILIZED FOR MORE THAN 7 CALENDAR DAYS.
7. DEWATERING DEVICES SHALL DISCHARGE INTO SEDIMENT REMOVAL BMP.
8. TEMPORARY STREAM DIVERSION AND DEWATERING SYSTEM SHOWN ON THE PLAN ARE EXAMPLES ONLY. CONTRACTOR WILL SUBMIT TEMPORARY STREAM DIVERSION PLAN AND DEWATERING PLAN PER SPECIFICATIONS.
9. ALL POLLUTANTS OTHER THAN SEDIMENTS THAT OCCUR ON SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED IN A MANNER THAT IT DOES NOT CAUSE CONTAMINATION OF STORMWATER, PER CURRENT VERSION OF THE DEPARTMENT OF ECOLOGY STORM WATER MANUAL FOR PUGET SOUND BASIN.

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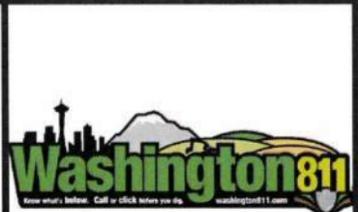
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SCALE:
10' 5' 0'
SCALE IN FEET

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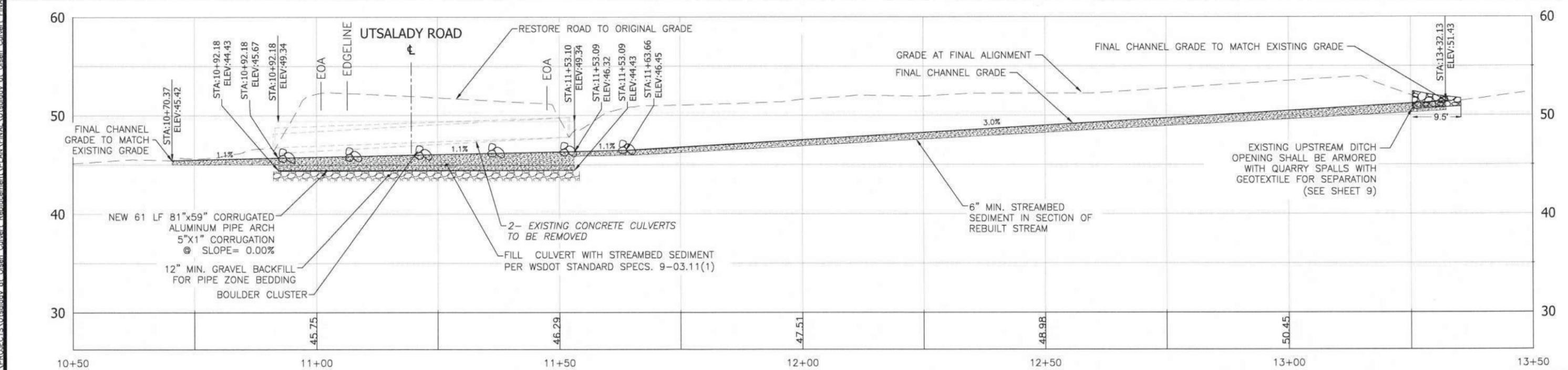
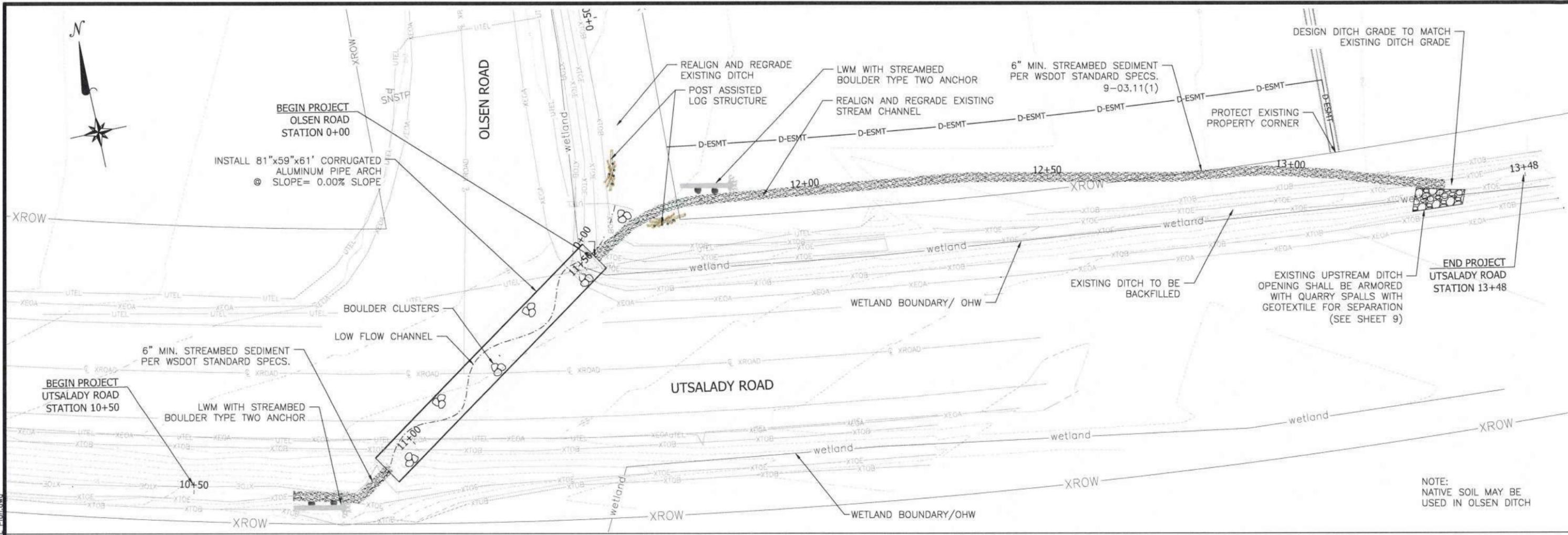
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**UTSALADY @ OLSEN
CULVERT REPLACEMENT**

TESC AND SITE PREPARATION - 1
UTSALADY ROAD STA. 10+50 TO STA. 13+48

SHEET
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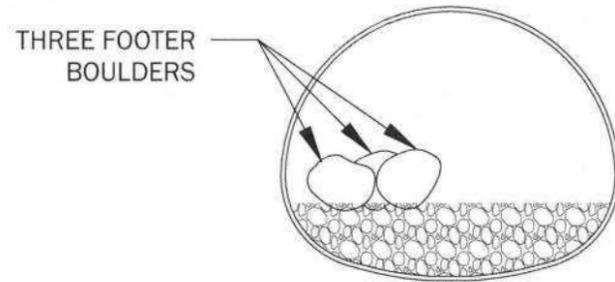
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 5' 0 5'
 VERTICAL SCALE
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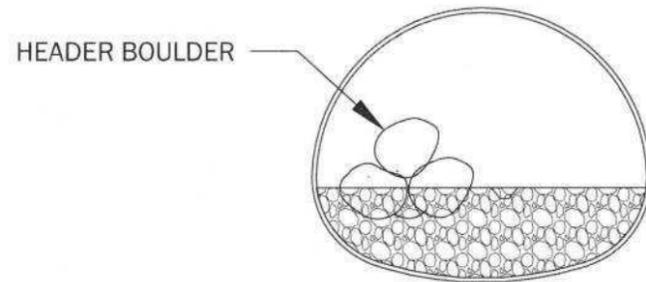
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 PLAN AND PROFILE - 1
 UTSALADY ROAD STA. 10+50 TO STA. 13+48

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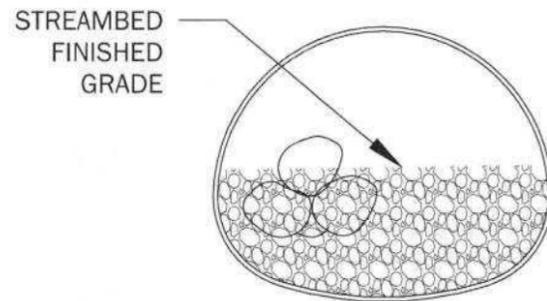
THREE FOOTER BOULDERS

1. PLACE STREAMBED SEDIMENTS LIFTS UP TO APPROXIMATELY 2 FEET DEPTH. PLACE THREE FOOTER BOULDERS. ALL THREE FOOTER BOULDERS SHALL BE IN CONTACT WITH EACH OTHER AND TWO ADJACENT TO CULVERT WALL.



HEADER BOULDER

2. PLACE ADDITIONAL LIFTS OF STREAMBED SEDIMENTS, PARTIALLY BURYING FOOTER BOULDERS. STREAMBED SEDIMENTS SHALL ALSO BE PLACED IN BETWEEN FOOTER BOULDERS TO MINIMIZE VOID SPACES. PLACE HEADER BOULDER ON TOP OF FOOTER BOULDERS.



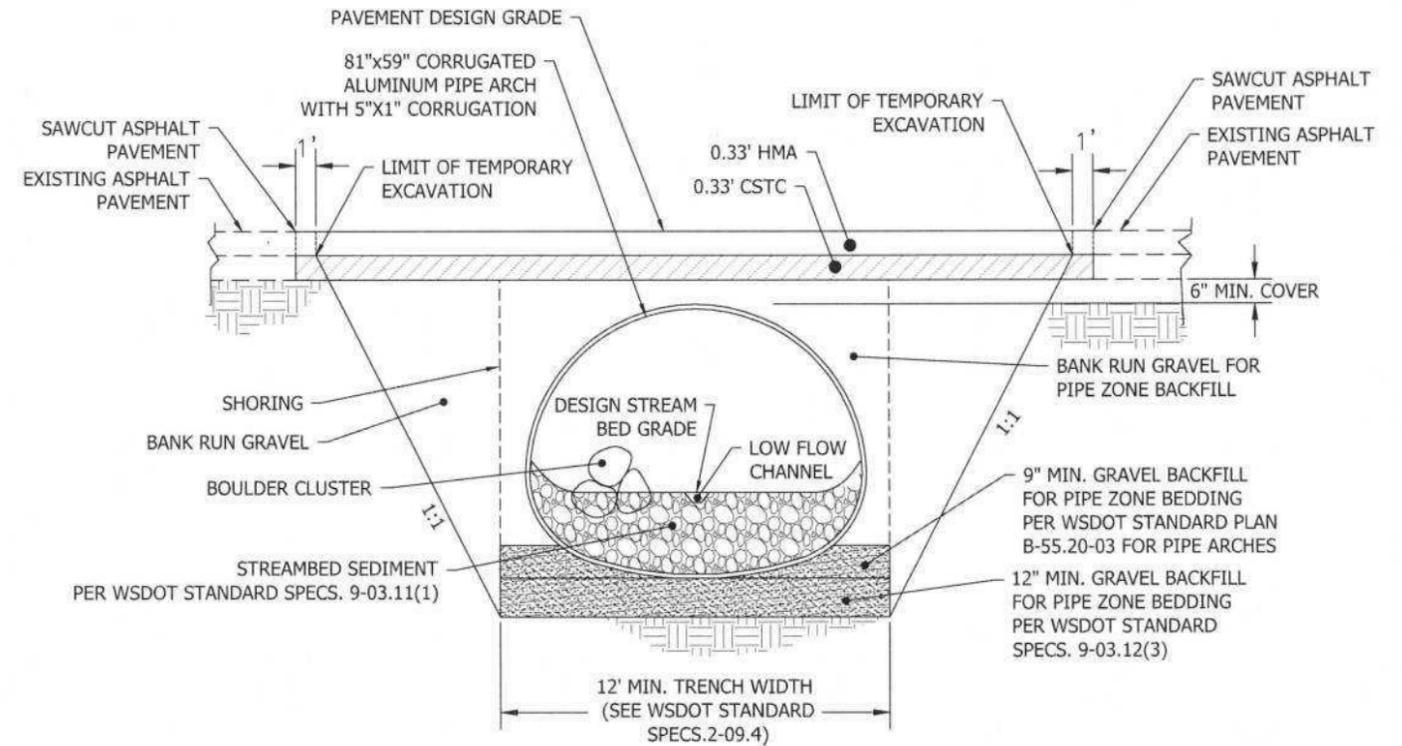
STREAMBED FINISHED GRADE

BOULDER CLUSTER SEQUENCING
NTS

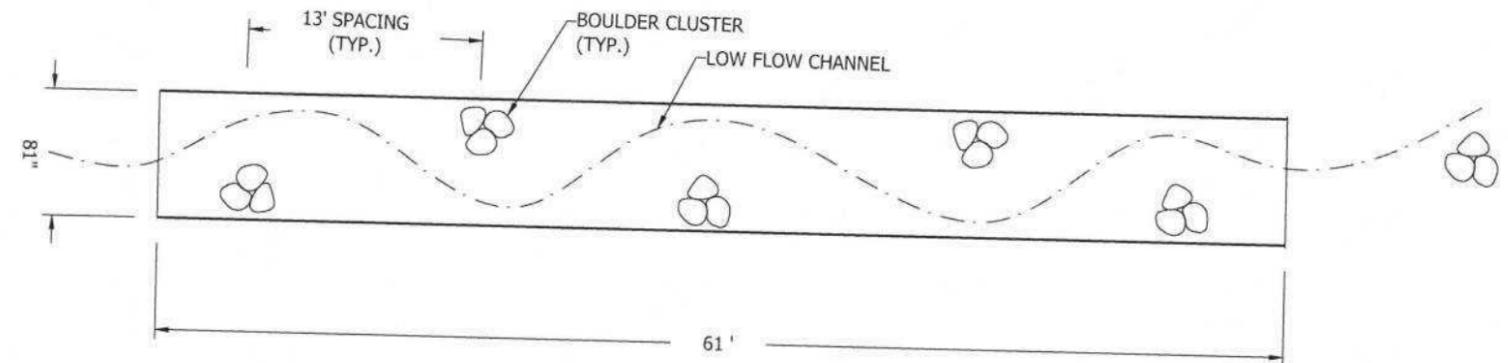
3. PLACE REMAINING LIFTS OF STREAMBED SEDIMENTS UP TO FINISHED GRADE INSIDE CULVERT. MINIMIZE VOID SPACES AROUND BOULDER CLUSTERS BY WASHING IN MATERIAL IN BETWEEN LIFTS.

NOTE:

BOULDER CLUSTER SHALL BE STREAMBED BOULDER TYPE ONE PER WSDOT STANDARD SPECIFICATION 9-03.11(5).



CULVERT TYPICAL CROSS SECTION
NTS



CULVERT STRUCTURE DETAIL- PLAN VIEW
NTS

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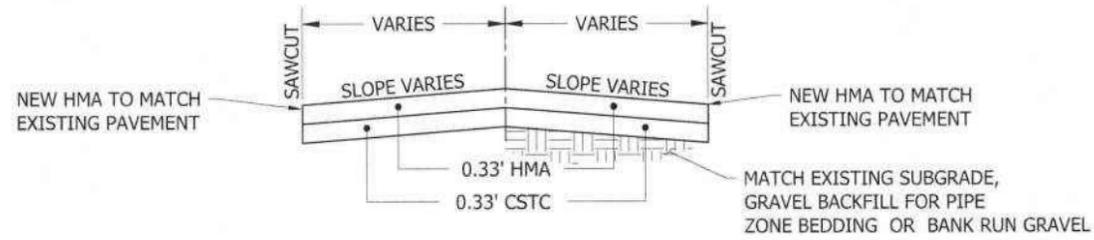
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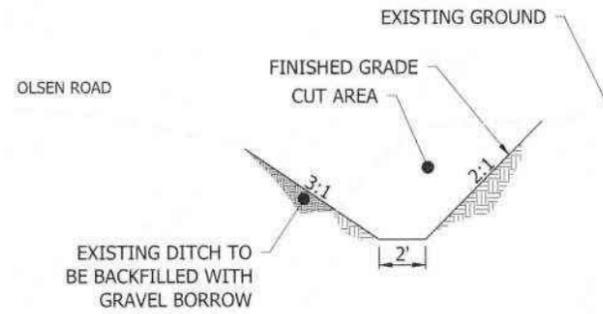


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CROSS SECTIONS AND DETAILS- 1

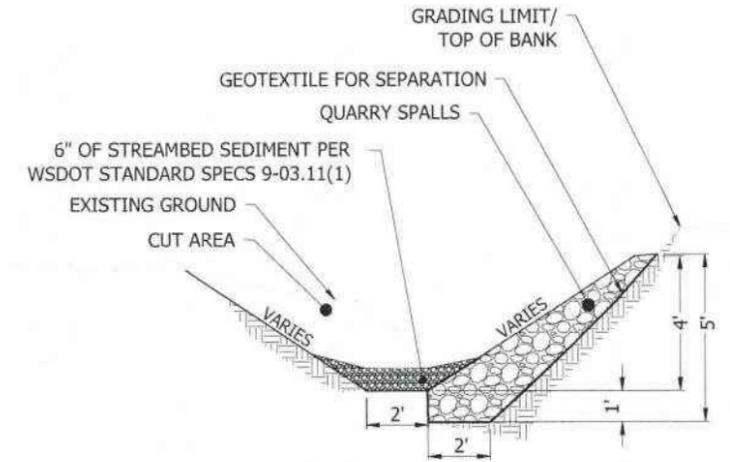
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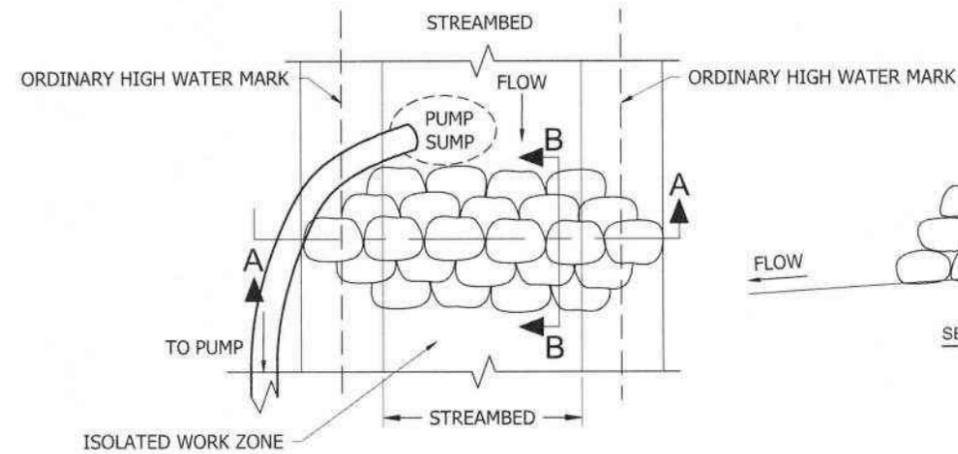
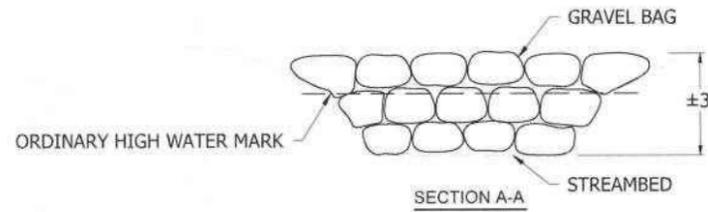
TYPICAL PAVEMENT REPAIR SECTION
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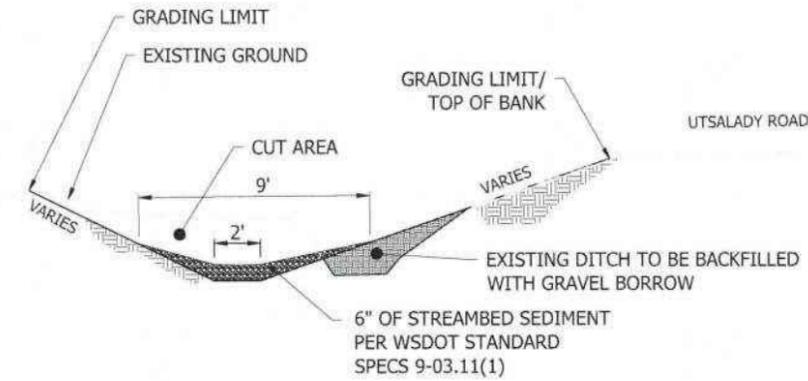
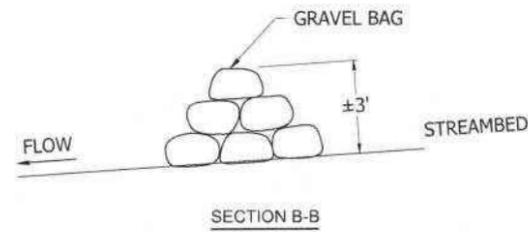
TYPICAL CROSS SECTION - OLSEN DITCH
NTS



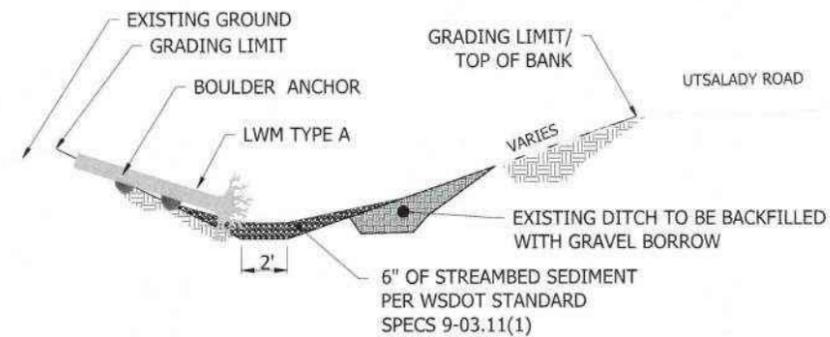
QUARRY SPALLS ARMORING
NTS



TEMPORARY SANDBAG REVETMENT DETAIL
NTS



TYPICAL CROSS SECTION - NEW STREAM UTSALADY
NTS



LARGE WOODY MATERIAL SECTION
NTS

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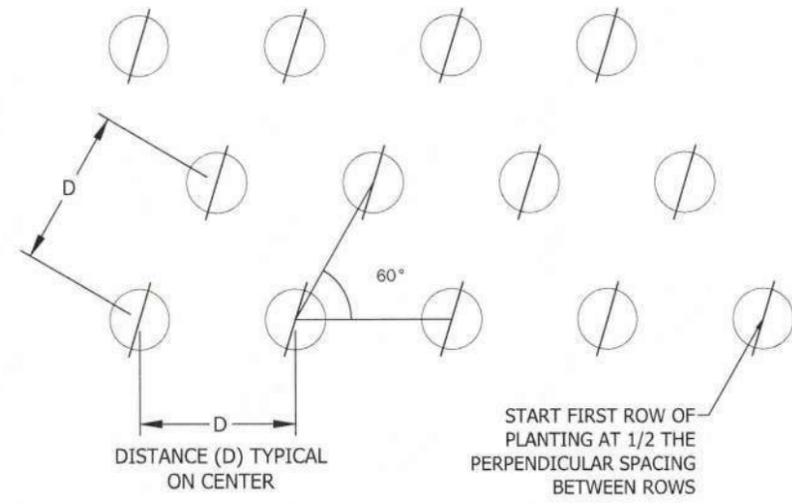
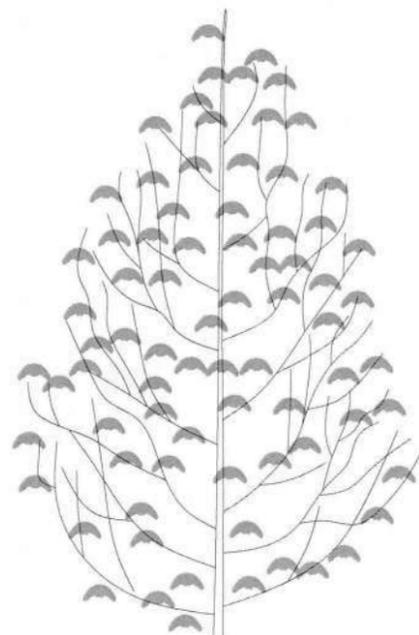
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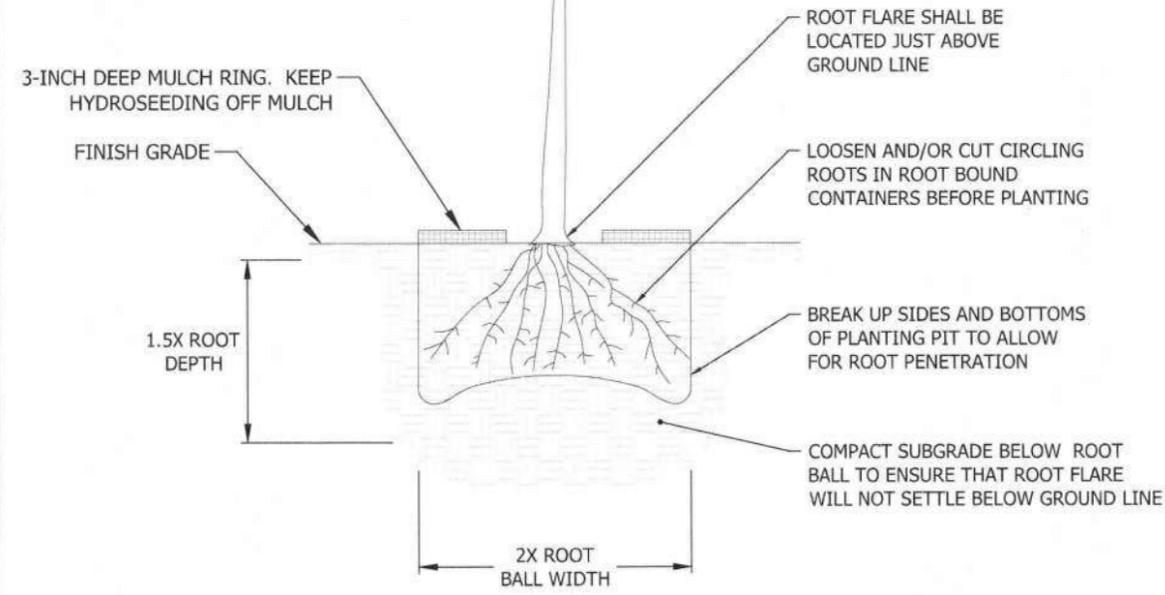
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CROSS SECTIONS AND DETAILS- 2

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NOTE:
ALL PLANT SPACING SHALL BE EQUIDISTANT UNLESS OTHERWISE SPECIFIED.

TRIANGULAR SPACING (TYP) DETAIL
SCALE: NOT TO SCALE



TREE PLANTING (TYP) DETAIL
SCALE: NOT TO SCALE

Planting Area 1 - 2,638 square feet				
Native Plant Species			Planting Area	
Common Name	Scientific Name	Plant Size	Count	Density
Black cottonwood	<i>Populus balsamifera</i>	2 Gallon	9	14-foot on-center
Western Redcedar	<i>Thuja plicata</i>	2 Gallon	4	14-foot on-center
Nootka rose	<i>Rosa nutkana</i>	1 Gallon	31	5-foot on-center
Scouler's willow	<i>Salix scouleriana</i>	Live stake or 1 Gallon	31	5-foot on-center
Pacific willow	<i>Salix lucida</i>		31	5-foot on-center

Planting Area 2 - 62 square feet				
Native Plant Species			Planting Area	
Common Name	Scientific Name	Plant Size	Count	Density
Scouler's willow	<i>Salix scouleriana</i>	Live stake or 1 Gallon	7	3-foot on-center

Native Seed Recommendations - 9,735 square feet		
Kind and Variety of Seed Mixture		Pounds PLS/ acre
Spike bentgrass	<i>Agrostis exarata</i>	40
Red Fescue	<i>Festuca rubra L. ssp. Rubra</i>	35
Tufted Hairgrass	<i>Deschampsia cespitosa</i>	10
Northwestern mannagrass	<i>Glyceria occidentalis</i>	10
Meadow Barley	<i>Hordeum brachyantherum</i>	5
Total Pounds PLS/ acre		100

PLANTING TABLE

PLANTING ACTIVITIES SHOULD OCCUR AFTER SITE GRADING IS COMPLETE AND BE TIMED AS FOLLOWS:

1. CLEAR INVASIVE AND NON-NATIVE SPECIES AND REMOVE DEBRIS AS NEEDED.
2. RE-GRADE AND AMEND AREA WITH CLEAN SOILS AS NEEDED.
3. CONDUCT THE PLANTING IMMEDIATELY AFTER SOIL AMENDMENTS ARE PLACED AND IN CONJUNCTION WITH THE CLEARING AND REMOVAL OF DEBRIS. THIS WILL MINIMIZE RE-GROWTH OF INVASIVE SPECIES IN NEWLY OPENED OR CLEARED AREAS. PLANTINGS WILL BE INSTALLED IN A TRIANGULAR GRID PATTERN TO ENSURE EASE OF MAINTENANCE/REMOVAL OF INVASIVE SPECIES DURING THE MONITORING PERIOD.
4. PLANTING SHALL BE CONDUCTED IN THE EARLY SPRING OR LATE FALL DURING THE DORMANT SEASON. STAGING AREAS FOR PLANTS SHOULD OCCUR IN UPLAND AREAS.
5. IRRIGATE NEWLY PLANTED AREAS AS NEEDED, IF PLANTING IN EARLY SPRING
6. CONDUCT REGULAR MAINTENANCE AND MONITORING AS NEEDED.

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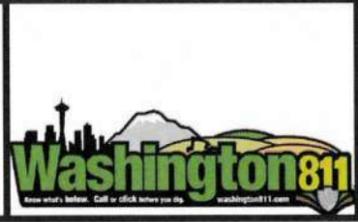
Office of the
ISLAND COUNTY ENGINEER
1 NE 6th Street
Coupeville, WA 98239-5000
T. 360-679-7331 F. 360-678-4550

SURVEYED BY: Christoff Schnobrich SURVEYOR	DATE STARTED: 06-2022
DRAWN/DESIGNED BY: Edison Manglicmot	DATE STARTED: 06-2022
PROJECT MANAGER: Mohammed Al Saffar	INITIAL: MA DATE: 6/3/25
CHECKED BY: Nick Tuttle ENGINEERING MANAGER	INITIAL: NT DATE: 6/3/25



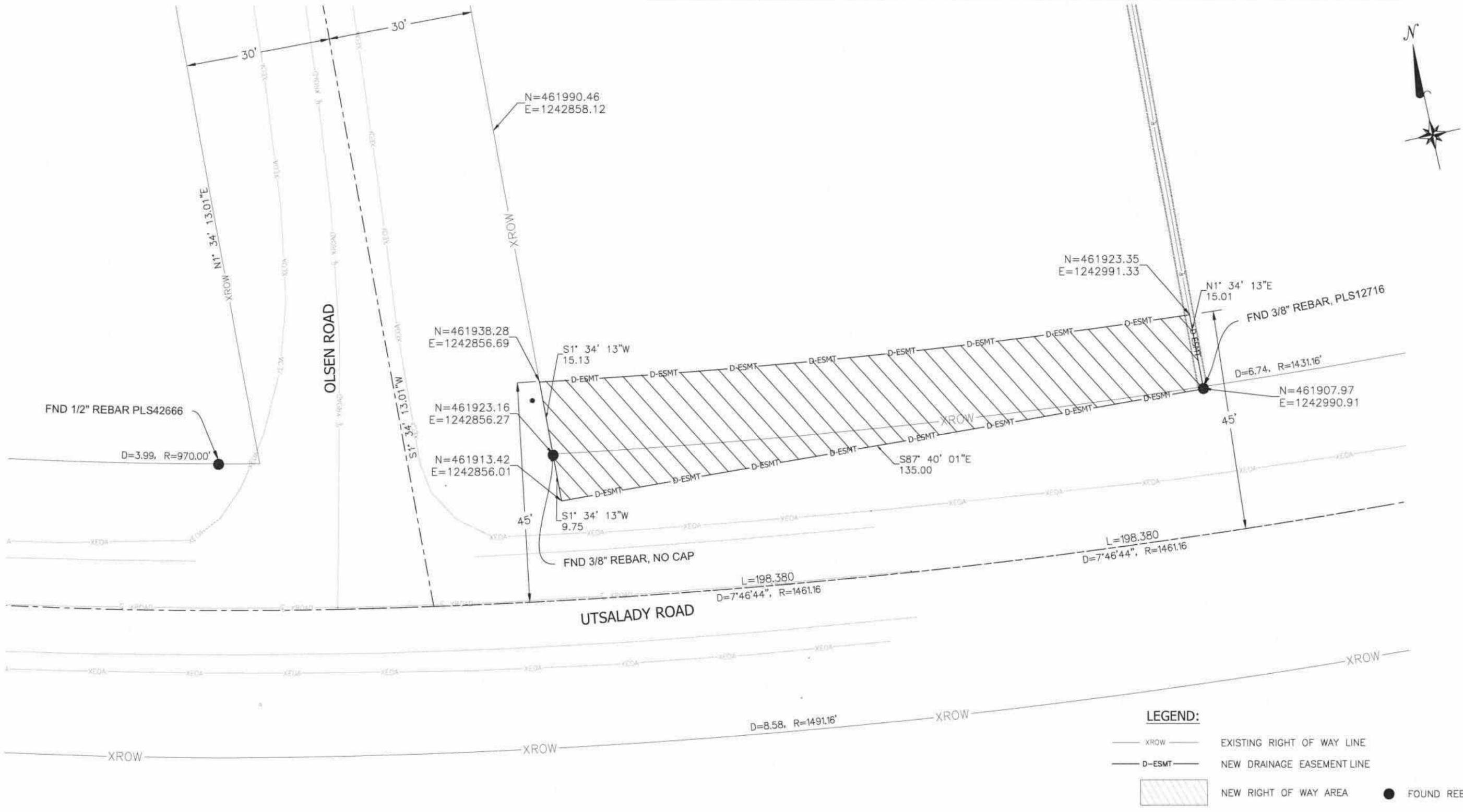
DATE	REVISIONS	BY
2/9/2024	60% REVISION	EAM
11/19/2024	90% REVISION	EAM
04/18/2025	FINAL PLAN SET	EAM

SCALE:
NOT TO SCALE
SCALE APPLIES TO FULL SIZE (22" x 34") PRINTS ONLY. SCALE ACCORDINGLY FOR PRINTS OF OTHER SIZES.



SECT. 18, TWP. 32N., R. 3E., W.M.
JL NO. 00601-1201 C.R.P. NO. 25-05
**UTSALADY @ OLSEN
CULVERT REPLACEMENT**
PLANTING DETAILS

OWNERSHIP							
PARCEL NO.	NAME	TOTAL AREA (ACRES)	NROW (ACRES)	DRAINAGE EASEMENT (ACRES)	REMAINDER (ACRES)	CONSTRUCTION EASEMENT (ACRES)	T.C. EASEMENT (ACRES)
R33218-050-4210	HAUGEN TTEE MARY MARGARET	2.4700	0.0000	0.05900	2.4700	0.0000	0.0000



LEGEND:

	EXISTING RIGHT OF WAY LINE
	NEW DRAINAGE EASEMENT LINE
	NEW RIGHT OF WAY AREA
	FOUND REBAR

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11/19/2024	90% REVISION	EAM
04/18/2025	FINAL PLAN SET	EAM
DATE	REVISIONS	BY

SCALE:

 SCALE IN FEET
 SCALE APPLIES TO FULL SIZE (22" x 34") PRINTS ONLY. SCALE ACCORDINGLY FOR PRINTS OF OTHER SIZES.



SECT. 18, TWP. 32N., R. 3E., W.M.
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UTSALADY @ OLSEN
CULVERT REPLACEMENT
 RIGHT OF WAY PLAN

SHEET	14
OF	14