

SAMISH ISLAND ROAD CULVERT REPLACEMENT

SECTION 6, TWP 35 N, RGE, 3 E

SKAGIT COUNTY PUBLIC WORKS MOUNT VERNON, WASHINGTON

PD30910-2
JUNE 16, 2008



SKAGIT COUNTY OFFICIALS

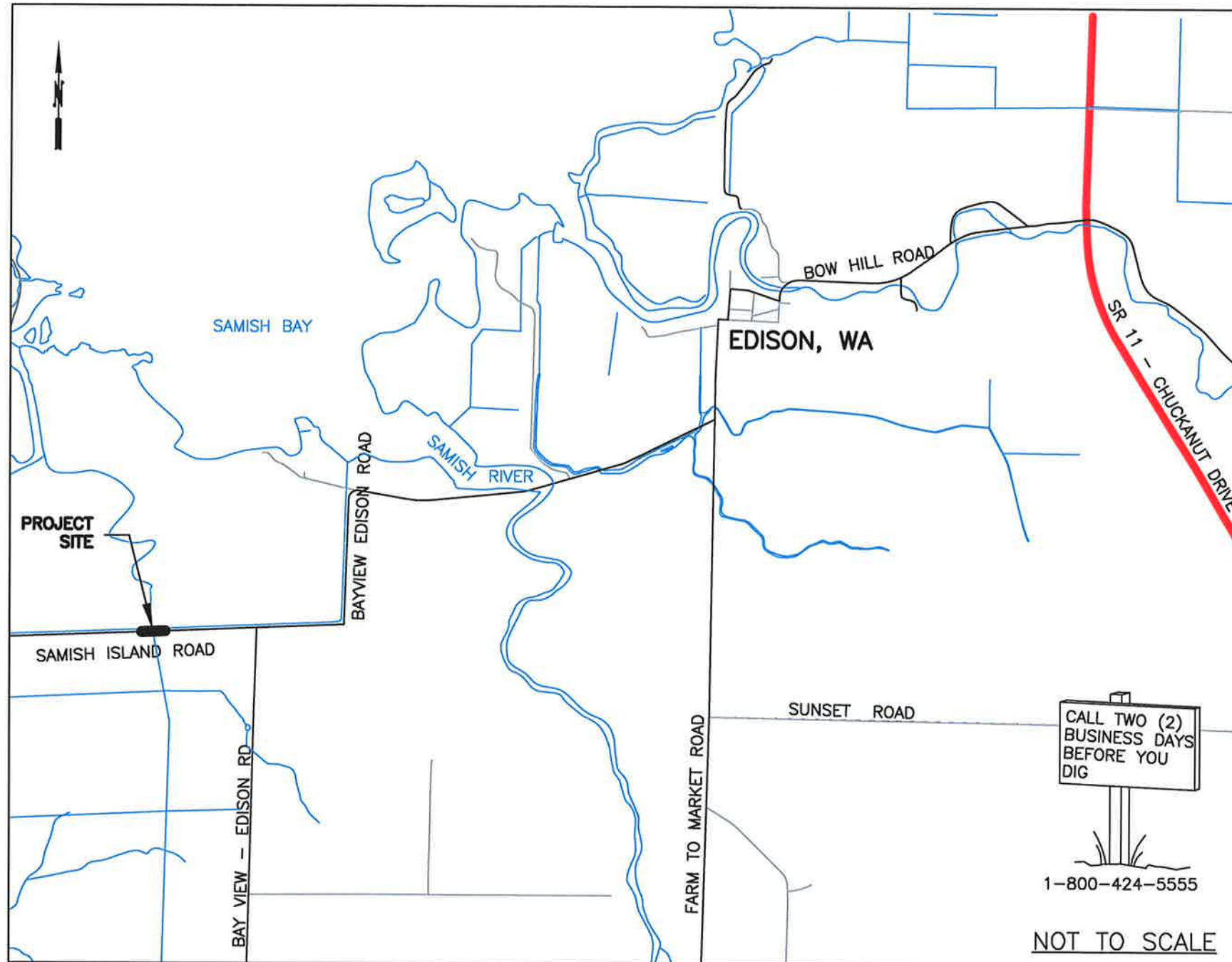
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- JEFF MILLER, P.E., ASSISTANT COUNTY ENGINEER

VICINITY MAP



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SKAGIT COUNTY PUBLIC WORKS MOUNT VERNON, WASHINGTON

PD30910-2
LOCATED NEAR
EDISON, WA

SECTION 6, TWP 35 N, RGE, 3 E

CONTACT:
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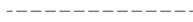







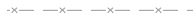










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Jeff Miller 6/12/08
JEFF MILLER, P.E., ASSISTANT COUNTY ENGINEER DATE


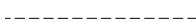


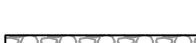

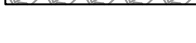
TITLE SHEET
1 OF 8

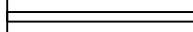
FEATURES LEGEND

EXISTING FEATURES

-  BUILDING FOOTING LINE
-  CABLE TV LINE
-  CONTOUR LINE
-  CREEK/STREAM LINE
-  ORDINARY HIGH WATER LINE
-  GRAVEL DRIVEWAY LINE
-  DITCH TOP/TOE LINE
-  FENCE LINE
-  UNDERGROUND PHONE LINE
-  EDGE OF ASPHALT LINE
-  GRAVEL SHOULDER LINE
-  TOPO BREAK LINE
-  UNKNOWN UTILITIES LINE
-  WATER LINE
-  FIRE HYDRANT SYMBOL
-  WATER VALVE SYMBOL
-  MISC. WATER SYMBOL
-  ELECTRICAL POLE SYMBOL
-  SKAGIT COUNTY SURVEY CONTROL POINT

PROPOSED FEATURES

-  ROAD CENTER LINE
-  GRAVEL SHOULDER LINE
-  EDGE OF ASPHALT LINE
-  SILT FENCE LINE
-  CSTC/GRAVEL SHOULDER
-  ASPHALT
-  EROSION CONTROL BLANKET/SEEDING FERTILIZATION & MULCHING

 JERSEY BARRIER

 DETOUR ROUTE

 DETOUR BRIDGE DECK

 ASPHALT REMOVAL

SUMMARY OF QUANTITIES

Item No	Spec.	Qty.	Unit	Item Description
1	1-09.7	1	LS	Mobilization
2	1-04	1	CALC	Minor Changes
3	1-07.15	1	LS	SPCC Plan
4	1-10	1	LS	Project Temporary Traffic Control
5	2-01	0.15	ACRE	Clearing and Grubbing
6	2-02	1	LS	Removal of Structures and Obstructions
7	2-03	1,350	CY	Roadway Excavation, Including Haul
8	2-09 SP	12	DAY	Dewatering/Diversion and Care of Water
9	2-12	160	SY	Construction Geotextile for Separation
10	4-04	1,500	TON	Gravel Base, Including Haul
11	4-04	350	TON	Crushed Surfacing Base Course, Including Haul
12	4-04	200	TON	Crushed Surfacing Top Course, Including Haul
13	5-04	95	TON	HMA Class 1/2" PG 58-22
14	7-03 SP	1	LS	Installing Multi-Plate Pipe-Arch Culvert, 11' 7" x 7' 5", 50 Lineal Feet
15	7-09 SP	1	LS	Water Main Removal and Replacement
16	8-01 SP	1	LS	Erosion/Water Pollution Control
17	8-01	200	SY	Erosion Control Blanket
18	8-01	450	LF	Silt Fence
19	8-01	0.15	ACRE	Seeding, Fertilizing & Mulching
20	8-15	125	TON	Quarry Spall
21	8-15	100	TON	Light Loose Riprap

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FEATURES & QUANTITIES

SHEET

2 OF 8

CONSTRUCTION NOTES

1. THE MULTI-PLATE PIPE-ARCH CULVERT SHALL BE PROVIDED BY THE CONTRACTING AGENCY, PRE-ASSEMBLED, AND LOCATED AT THE SKAGIT COUNTY BURLINGTON ROAD MAINTENANCE SHOP. THE CONTRACTOR IS RESPONSIBLE FOR TRANSPORTING AND INSTALLING THE MULTI-PLATE PIPE-ARCH CULVERT, 11'7" X 7'5", 50 LINEAL FEET, 25,000 LBS.
2. CONTRACTOR SHALL MAINTAIN THE DETOUR ROUTE DAILY PER SPECIAL PROVISION 1-07.23(2).

ESC-1 STANDARD ESC NOTES

APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).

1. AS DIRECTED BY PUBLIC WORKS DIRECTOR PRIOR TO COMMENCING CONSTRUCTION, ALL CRITICAL AREAS, INCLUDING WETLAND BUFFERS, STREAM CORRIDOR, LANDFILL AREAS, AND STEEP SLOPES SHALL BE CONTINUOUSLY DEMARCATED IN THE FIELD USING FLAGGING TAPE OR FENCING.
2. EROSION CONTROL METHODS AND MATERIALS SHALL MEET REQUIREMENTS OF SECTION 8-01 OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 2008 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, AND REQUIREMENTS SET FORTH IN VOLUME II OF THE "STORMWATER MANAGEMENT MANUAL FOR THE PUGET SOUND BASIN (THE TECHNICAL MANUAL)", BY THE WASHINGTON STATE DEPARTMENT OF ECOLOGY, CURRENT EDITION. THE CONTRACTOR SHALL FOLLOW RECOMMENDATIONS MADE BY SUPPLIERS AND MANUFACTURERS OF MATERIALS AND EQUIPMENT USED.
3. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS, AND MUST BE INSTALLED AND IN OPERATION PRIOR TO ANY GRADING OR LAND CLEARING. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL
4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY, MORE ESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.
5. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (EXAMPLE: ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).
6. WHERE STRAW MULCH IS REQUIRED FOR TEMPORARY EROSION CONTROL, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF TWO (2) INCHES.
7. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH SKAGIT COUNTY STANDARDS AND SPECIFICATIONS.
8. THE ESC FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE APPROVED PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE SKAGIT COUNTY PUBLIC WORKS DIRECTOR AND SKAGIT COUNTY INSPECTOR.
9. A COPY OF THE APPROVED EROSION CONTROL PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
10. OFF-SITE STREETS MUST BE KEPT CLEAN AT ALL TIMES. IF DIRT IS DEPOSITED ON THE PUBLIC STREET SYSTEM, THE STREET SHALL BE IMMEDIATELY CLEANED WITH POWER SWEEPER OR OTHER EQUIPMENT. ALL VEHICLES SHALL LEAVE THE SITE BY WAY OF THE CONSTRUCTION ENTRANCE AND SHALL BE CLEANED OF ALL DIRT THAT WOULD BE DEPOSITED ON THE PUBLIC STREETS
11. THE WASHED GRAVEL BACKFILL ADJACENT TO THE FILTER FABRIC FENCE SHALL BE REPLACED AND THE FILTER FABRIC CLEANED IF IT IS NONFUNCTIONAL BY EXCESSIVE SILT ACCUMULATION AS DETERMINED BY SKAGIT COUNTY. ALSO, ALL INTERCEPTOR SWALES SHALL BE CLEANED IF SILT ACCUMULATION EXCEEDS ONE-QUARTER DEPTH.
12. IF ANY PART (S) OF THE CLEARING LIMIT; BOUNDARY OR TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN IS/ARE DAMAGED, IT SHALL BE REPAIRED IMMEDIATELY.
13. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADE OF THESE FACILITIES IS THE RESPONSIBILITY OF THE

- APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
14. THE ESC SUPERVISORS NAME IS: _____, 24 HR. CONTACT NUMBER: _____.
 15. THE APPLICANT'S NAME IS : _____, 24 HR. CONTACT NUMBER: _____.
 16. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
 17. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF THE MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT. 30).
 18. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
 19. ANY AREA NEEDING ESC MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
 20. THE ESC FACILITIES ON ACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A STORM EVENT.
 21. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE COUNTY INSPECTOR. THE COUNTY INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.

ESC-2 SENSITIVE AREAS SPECIAL PROVISIONS

1. WHENEVER POSSIBLE, PHASE ALL OR PART OF THE PROJECT SO THAT IT OCCURS DURING THE DRY SEASON. IF THIS IS IMPOSSIBLE, NOVEMBER THROUGH FEBRUARY SHALL BE AVOIDED SINCE THIS IS THE MOST LIKELY PERIOD FOR LARGE, HIGH-INTENSITY STORMS.
2. ALL PROJECTS SHALL BE COMPLETED AND STABILIZED AS QUICKLY AS POSSIBLE. LIMITING THE SIZE AND DURATION OF A PROJECT IS PROBABLY THE MOST EFFECTIVE FORM OF EROSION CONTROL.
3. WHERE APPROPRIATE, SANDBAGS OR AN EQUIVALENT BARRIER SHALL BE CONSTRUCTED BETWEEN THE PROJECT AREA AND THE SURFACE WATER IN ORDER TO ISOLATE THE CONSTRUCTION AREA FROM HIGH WATER THAT MIGHT RESULT DUE TO PRECIPITATION.
4. ADDITIONAL PERIMETER PROTECTION SHALL BE CONSIDERED TO REDUCE THE LIKELIHOOD OF SEDIMENT ENTERING THE SURFACE WATERS. SUCH PROTECTION MIGHT INCLUDE MULTIPLE SILT FENCES, SILT FENCES WITH A HIGHER AOS, CONSTRUCTION OF A BERM, OR A THICK LAYER OF ORGANIC MULCH UPSLOPE OF A SILT FENCE.
5. IF WORK IS TO OCCUR WITHIN THE ORDINARY HIGH WATER MARK OF A STREAM, MOST PROJECTS MUST ISOLATE THE WORK AREA FROM THE STREAM BY DIVERTING THE STREAM OR CONSTRUCTING A COFFERDAM. CERTAIN SMALL PROJECTS THAT PROPOSE ONLY A SMALL AMOUNT OF GRADING MAY NOT REQUIRE ISOLATION SINCE DIVERSIONS TYPICALLY RESULT IN DISTURBANCE AND THE RELEASE OF SOME SEDIMENT TO THE STREAM. FOR SUCH SMALL PROJECTS THE POTENTIAL IMPACTS FROM CONSTRUCTION WITH AND WITHOUT A DIVERSION MUST BE WEIGHED.
6. IF A STREAM MUST BE CROSSED, A TEMPORARY BRIDGE SHALL BE CONSIDERED RATHER THAN ALLOWING EQUIPMENT TO UTILIZE THE STREAMBED FOR A CROSSING.
7. ANY RUNOFF GENERATED BY DEWATERING SHALL BE TREATED THROUGH CONSTRUCTION OF A SEDIMENT TRAP WHEN THERE IS SUFFICIENT SPACE OR BY RELEASING THE WATER TO A WELL-VEGETATED, GENTLY SLOPING AREA. SINCE PUMPS ARE USED FOR DEWATERING, IT MAY BE POSSIBLE TO PUMP THE SEDIMENT-LADEN WATER WELL AWAY FROM THE SURFACE WATER SO THAT VEGETATION CAN BE MORE EFFECTIVELY UTILIZED FOR TREATMENT. A STRAW BALE FILTER SHALL BE PLACED AROUND THE DISCHARGE FROM THE DEWATERING PUMP. IF THERE IS NOT SPACE FOR A SEDIMENT TRAP OR 25 FEET OF SUITABLE VEGETATION, OTHER FILTRATION METHODS SHALL BE REQUIRED.

ESC-3 FINAL SITE STABILIZATION NOTES

TO OBTAIN FINAL CONSTRUCTION APPROVAL, THE FOLLOWING CONDITIONS MUST BE MET:

1. ALL DISTURBED AREAS OF THE SITE SHALL BE VEGETATED OR OTHERWISE PERMANENTLY STABILIZED. AT A MINIMUM, DISTURBED AREAS SHALL BE SEEDED AND MULCHED WITH A HIGH LIKELY HOOD THAT SUFFICIENT COVER WILL DEVELOP SHORTLY AFTER FINAL APPROVAL. MULCH WITHOUT SEEDING IS NOT ADEQUATE TO ALLOW FINAL APPROVAL OF THE PERMIT, EXCEPT FOR SMALL AREAS OF MULCH USED FOR LANDSCAPING. THE ONLY EXCEPTIONS TO THESE REQUIREMENTS ARE LOTS WITHIN A PLAT THAT ARE TO BE DEVELOPED UNDER AN APPROVED RESIDENTIAL PERMIT IMMEDIATELY FOLLOWING PLAT APPROVAL. IN THESE CASES, MULCH AND/OR TEMPORARY SEEDING ARE ADEQUATE FOR COVER.
2. STRUCTURAL MEASURES SUCH AS, BUT NOT LIMITED TO, SILT FENCES, PIPE SLOPES DRAINS, CONSTRUCTION ENTRANCES, STORM DRAIN INLET PROTECTION, AND SEDIMENT TRAPS AND PONDS SHALL BE REMOVED FROM THE SITE. MEASURES THAT WILL QUICKLY DECOMPOSE, SUCH AS BRUSH BARRIERS AND ORGANIC MULCHES, MAY BE LEFT IN PLACE. IN THE CASE OF SILT FENCES, IT MAY BE BEST TO REMOVE FENCES IN CONJUNCTION WITH THE SEEDING, SINCE IT MAY BE NECESSARY TO BRING MACHINERY BACK IN TO REMOVE THEM. THIS WILL RESULT IN DISTURBED SOILS THAT WILL AGAIN REQUIRE PROTECTION. THE DDES INSPECTOR MUST APPROVE AN APPLICANT'S PROPOSAL TO REMOVE FENCING PRIOR TO THE ESTABLISHMENT OF VEGETATION. IN SOME CASES, SUCH AS RESIDENTIAL BUILDING FOLLOWING PLAT DEVELOPMENT, IT MAY BE APPROPRIATE TO LEAVE SOME OR ALL ESC MEASURES FOR USE DURING SUBSEQUENT DEVELOPMENT. THIS SHALL BE DETERMINED ON A SITE-SPECIFIC BASIS.

ESC-4 ROAD AND UTILITIES E.S.C. NOTES

1. PHASING THE PROJECT SO THAT THE SITE IS WORKED PROGRESSIVELY FROM END TO END, RATHER THAN CLEARING AND GRUBBING THE ENTIRE LENGTH OF THE PROJECT. THIS RESULTS IN SMALLER EXPOSED AREAS FOR SHORTER DURATION'S, THUS REDUCING THE EROSION RISK.
2. MULCHING AND VEGETATING CUT AND FILL SLOPES AS SOON AS THEY ARE GRADED. FREQUENTLY, THIS IS DONE AT THE END OF CONSTRUCTION WHEN PAVING OR UTILITY INSTALLATION IS COMPLETE. VEGETATING THESE AREAS AT THE START OF THE PROJECT STABILIZES THOSE AREAS MOST SUSCEPTIBLE TO EROSION.
3. PHASING THE PROJECT SO THAT ALL CLEARING AND GRADING IN SENSITIVE AREA BUFFERS OCCURS IN THE DRY SEASON. THIS SUBSTANTIALLY REDUCES THE CHANCE OF EROSION AND ALLOWS FOR RAPID REVEGETATION IN THE LATE SUMMER AND EARLY FALL.
4. USING FLOCCULENT TO REDUCE THE TURBIDITY OF WATER RELEASED FROM SEDIMENT PONDS, WHEN APPROVED BY THE DEPARTMENT OF ECOLOGY.
5. HIRING A PRIVATE CONSULTANT WITH EXPERTISE IN ESC TO REVIEW AND MONITOR THE SITE.

ESC-5 CONSTRUCTION SEQUENCE

1. ATTEND PRE-CONSTRUCTION MEETING.
2. FLAG OR FENCE CLEARING LIMITS.
3. POST SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR.
4. INSTALL CATCH BASIN PROTECTION IF REQUIRED.
5. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).\
6. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
7. CONSTRUCT SEDIMENT PONDS AND TRAPS.
8. GRADE AND STABILIZE CONSTRUCTION ROADS.
9. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
10. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH KING COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
11. RELOCATE SURFACE WATER CONTROLS AND EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE KING COUNTY EROSION AND SEDIMENT CONTROL STANDARDS.
12. COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING OR EQUIVALENT.
13. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN SEVEN DAYS.
14. SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
15. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BMP'S REMOVED IF APPROPRIATE.

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△ SITE PREPARATION NOTES:

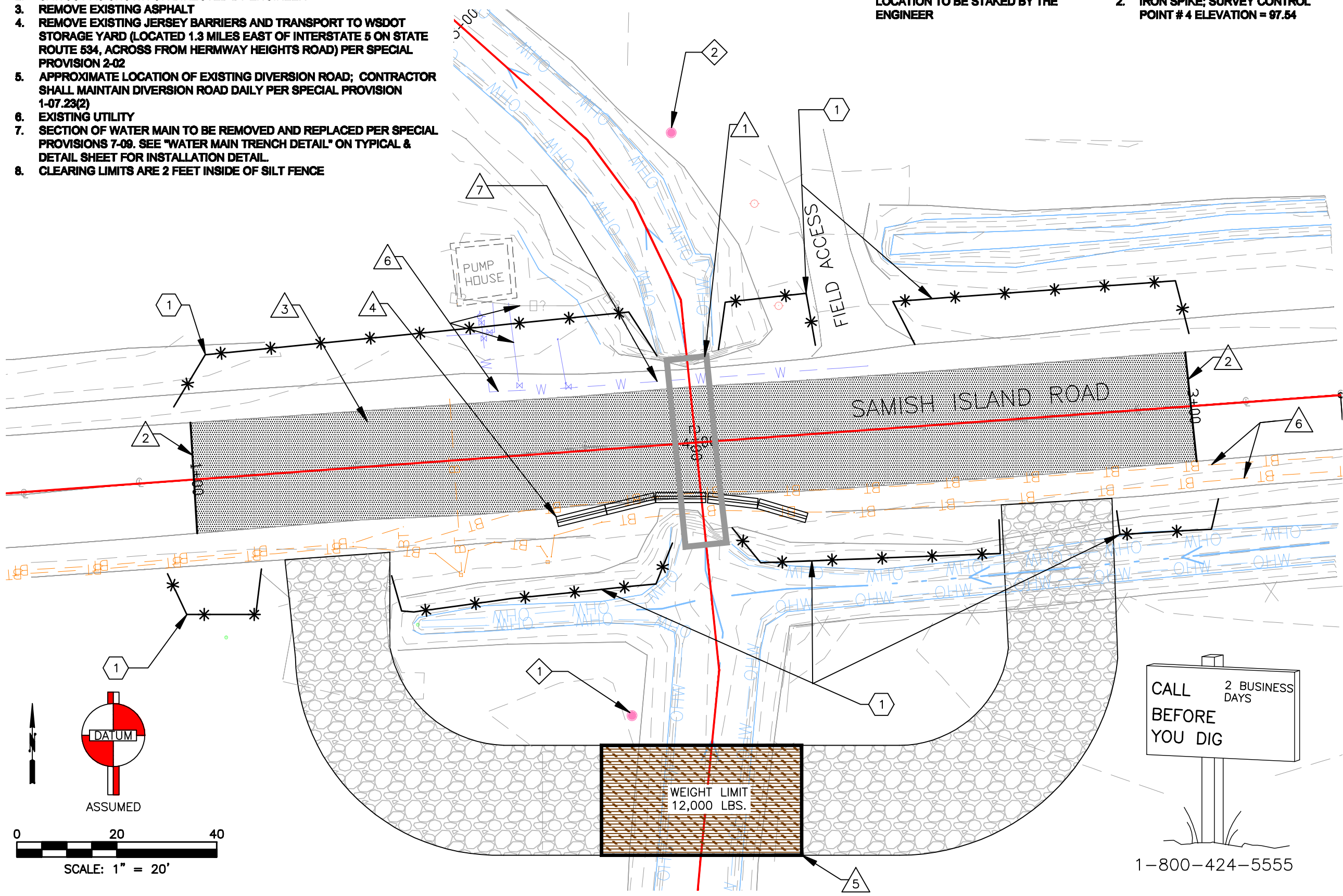
1. REMOVE AND DISPOSE OF EXISTING CULVERT 8' DIAMETER X 40 LINEAL FEET
2. SAWCUT AS SHOWN OR DIRECTED BY ENGINEER
3. REMOVE EXISTING ASPHALT
4. REMOVE EXISTING JERSEY BARRIERS AND TRANSPORT TO WSDOT STORAGE YARD (LOCATED 1.3 MILES EAST OF INTERSTATE 5 ON STATE ROUTE 534, ACROSS FROM HERMWAY HEIGHTS ROAD) PER SPECIAL PROVISION 2-02
5. APPROXIMATE LOCATION OF EXISTING DIVERSION ROAD; CONTRACTOR SHALL MAINTAIN DIVERSION ROAD DAILY PER SPECIAL PROVISION 1-07.23(2)
6. EXISTING UTILITY
7. SECTION OF WATER MAIN TO BE REMOVED AND REPLACED PER SPECIAL PROVISIONS 7-09. SEE "WATER MAIN TRENCH DETAIL" ON TYPICAL & DETAIL SHEET FOR INSTALLATION DETAIL.
8. CLEARING LIMITS ARE 2 FEET INSIDE OF SILT FENCE

⬡ TESC NOTES:

1. INSTALL SILT FENCE AS SHOWN. REF. WSDOT STD. PLAN I-30.10-00. LOCATION TO BE STAKED BY THE ENGINEER

◇ SURVEY NOTES:

1. IRON SPIKE; SURVEY CONTROL POINT # 3 ELEVATION = 97.99
2. IRON SPIKE; SURVEY CONTROL POINT # 4 ELEVATION = 97.54



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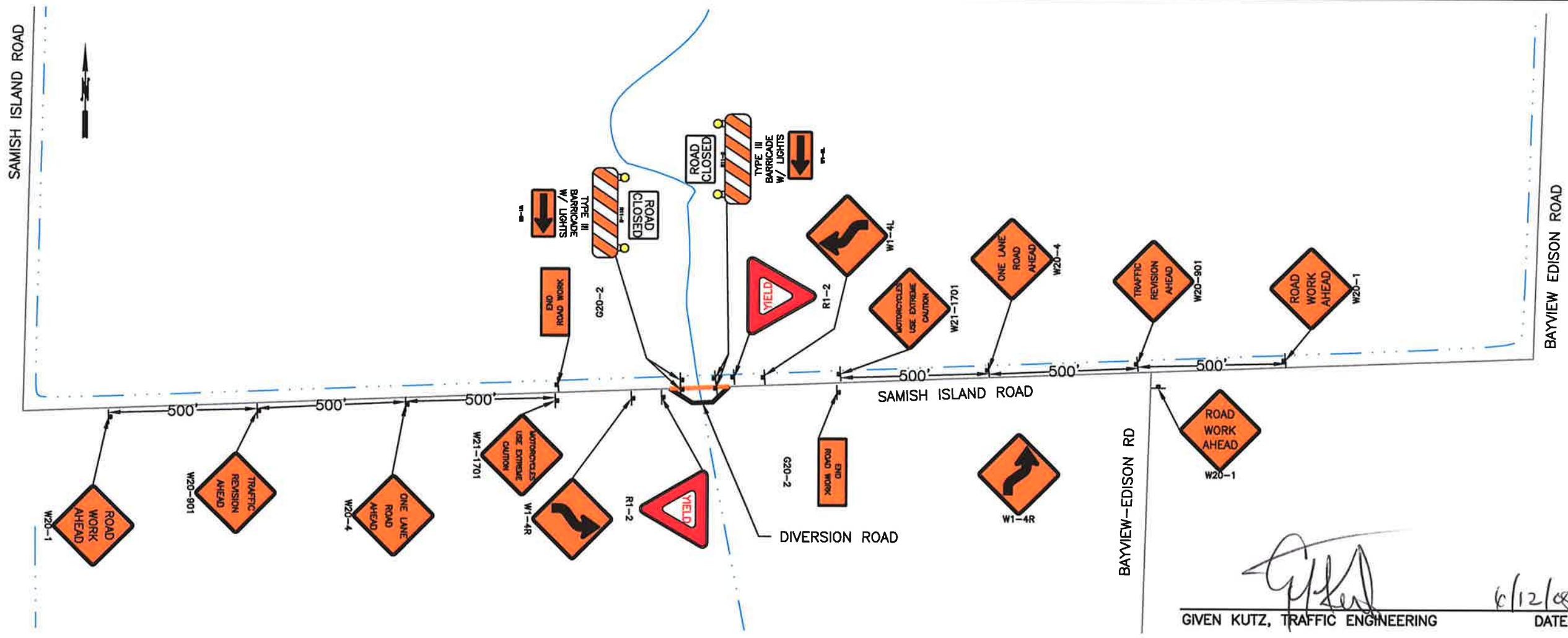
SITE PREPARATION & TESC
SHEET

1-800-424-5555

NOTE:

1. ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS ADOPTED BY WASHINGTON STATE AND ALL MODIFICATIONS PER WAC 468-95.
2. ALL COSTS ASSOCIATED WITH THE TYPE III BARRIACE WITH LIGHTS WILL BE PAID FOR UNDER BID ITEM "OTHER TEMPORARY TRAFFIC CONTROL".
3. CONSTRUCTION SIGNS ALREADY INSTALLED ON SITE ARE THE PROPERTY OF THE CONTRACTING AGENCY.
4. THE NCHRP 350 COMPLIANCE DATE FOR CATEGORY 2 TRAFFIC CONTROL DEVICES IS NOW IN EFFECT. AS REQUIRED BY THE WSDOT STANDARD SPECIFICATION SECTION 1-10.2(3), "CONFORMANCE TO ESTABLISHED STANDARDS," ALL CATEGORY 2 TRAFFIC CONTROL DEVICES MUST COMPLY WITH THE NCHRP 350 STANDARDS. EXAMPLES OF CATEGORY 2 DEVICES INCLUDE SIGN STANDS AND TYPE I, II AND III BARRICADES.

SIGN	QUANTITY	SIZE	SIGN	QUANTITY	SIZE	SIGN	QUANTITY	SIZE
	2	48" X 24"		3	36" X 36"		2	48" X 30"
	2	48" X 24"		2	36" X 36"		2	30" X 30" X 30"
	1	36" X 36"		2	36" X 36"		2	36" X 18"
	1	36" X 36"		2	36" X 36"		4	8' LENGTH



[Signature]
 GIVEN KUTZ, TRAFFIC ENGINEERING
 DATE 6/12/08

**SAMISH ISLNAD ROAD
 CULVERT
 REPLACEMENT**

PD30910-2
 LOCATED NEAR
 EDISON, WA

SECTION 6, TWP 35 N, RGE 3 E

**SKAGIT PUBLIC
 COUNTY WORKS**
SKAGIT, WASH., WASHINGTON

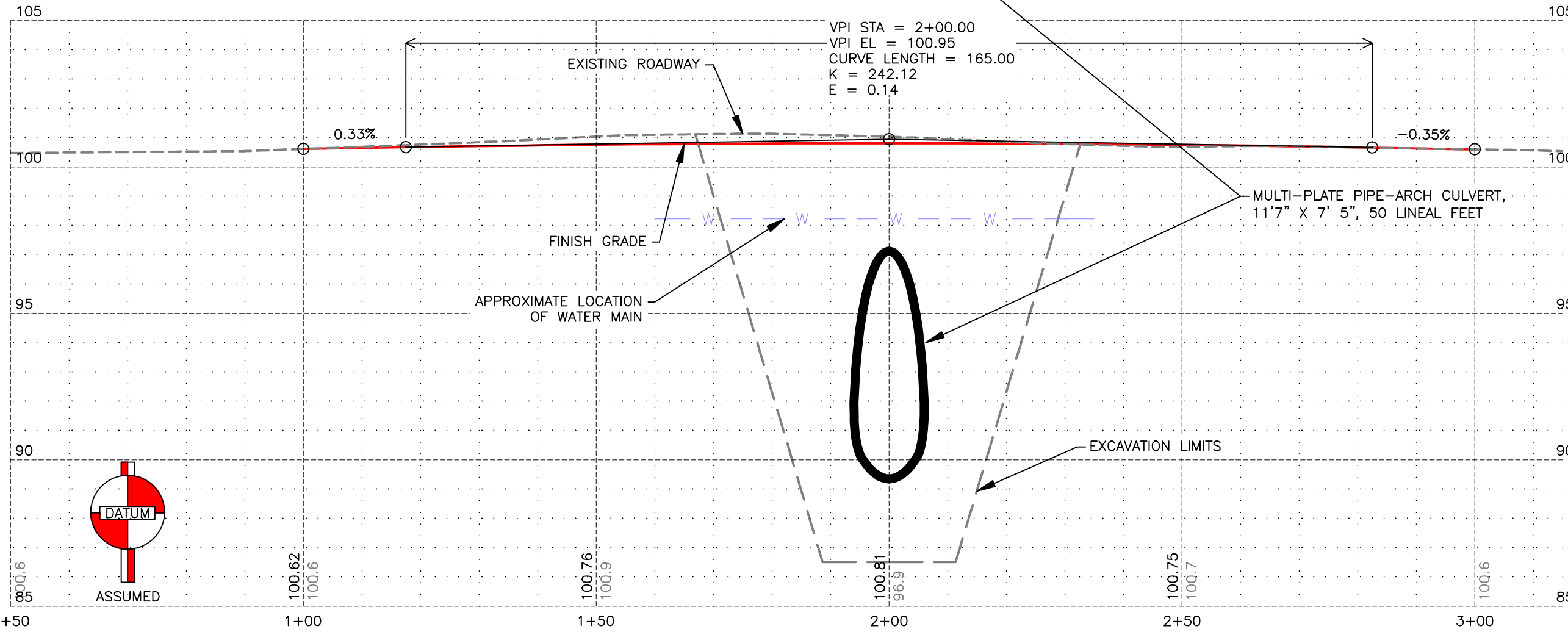
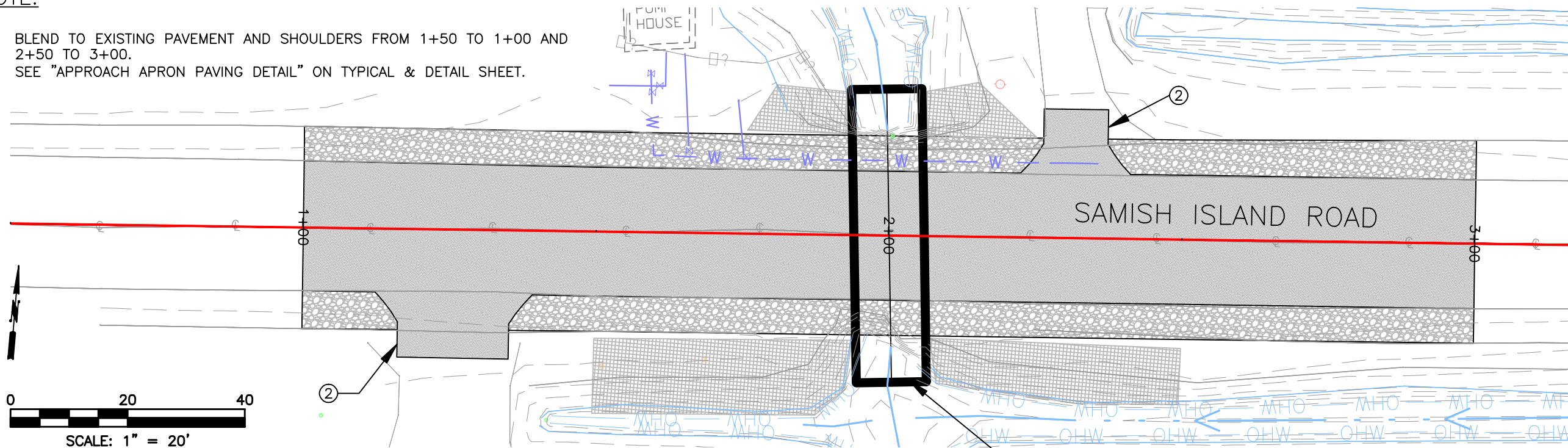
CONTACT:
 DAVID WALDE
 1800 CONTINENTAL PLACE
 MOUNT VERNON, WA 98273
 PH: 360-336-9400
 FAX: 360-336-9369

C.R.P. NO.: PD30910-2
 FED. AID NO.:
 DESIGNED BY: JAL
 DRAWN BY: JAL
 CHECKED BY: GK
 APPROVED BY: DS
 PLOT DATE: 6/12/2008
 PLOT TIME: 12:59 PM
 LAST EDIT: 6/12/2008
 11"x17" ORIGINAL DRAWING.
 ADJUST SCALES ACCORDINGLY.
 0" 1"

**SAMISH ISLNAD
 ROAD CULVERT
 REPLACEMENT**
 CLASS 'A' SIGN
 SHEET
5 OF 8

NOTE:

1. BLEND TO EXISTING PAVEMENT AND SHOULDERS FROM 1+50 TO 1+00 AND 2+50 TO 3+00.
2. SEE "APPROACH APRON PAVING DETAIL" ON TYPICAL & DETAIL SHEET.



**SAMISH ISLAND ROAD
CULVERT
REPLACEMENT**

PD30910-2
LOCATED NEAR
EDISON, WA

SECTION 6, TWP 35 N, RGE 3 E

**SKAGIT PUBLIC
COUNTY WORKS**
MOUNT VERNON, WASHINGTON

CONTACT:
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C.R.P. NO.: PD30910-2
FED. AID NO.:
DESIGNED BY: JAL
DRAWN BY: JAL
CHECKED BY: DW
APPROVED BY: DS
PLOT DATE: 6/12/2008
PLOT TIME: 1:11 PM
LAST EDIT: 6/11/2008

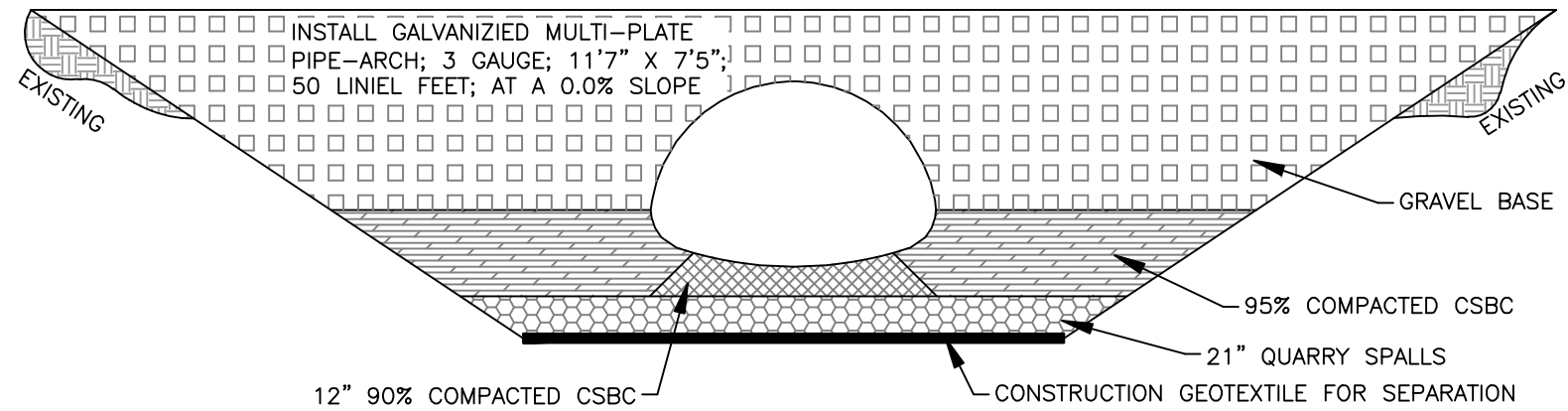
11"x17" ORIGINAL DRAWING.
ADJUST SCALES ACCORDINGLY.
0" = 1"

**SAMISH ISLAND
ROAD CULVERT
REPLACEMENT**
ROAD PLAN & PROFILE

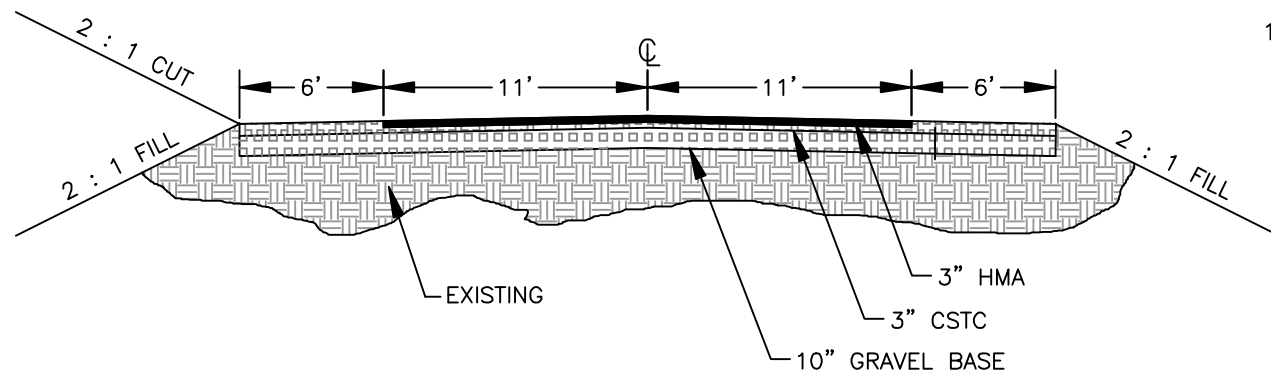
SHEET
7 OF 8

DRAWINGS NOT TO SCALE

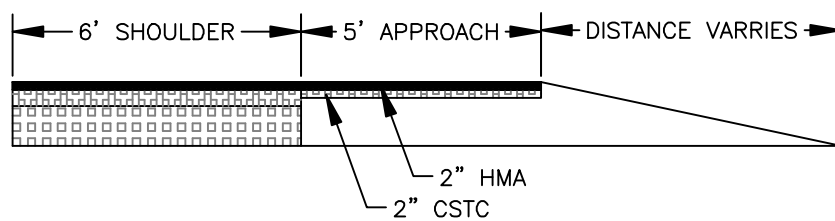
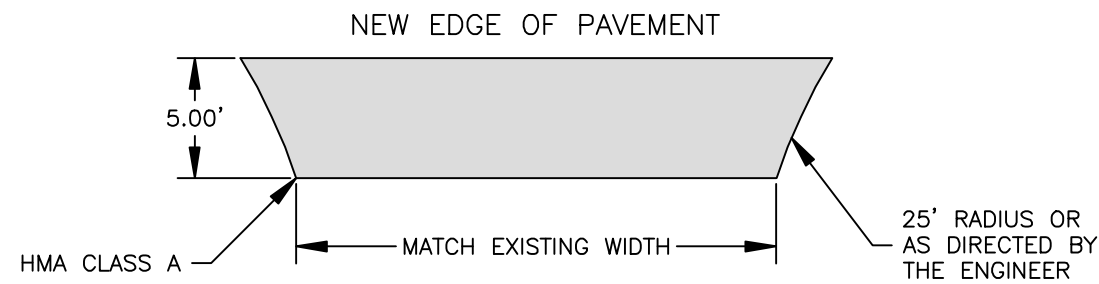
MULTI-PLATE PIPE-ARCH
CULVERT DETAIL



SAMISH ISLAND ROAD ROADWAY
CROSS-SECTION DETAIL



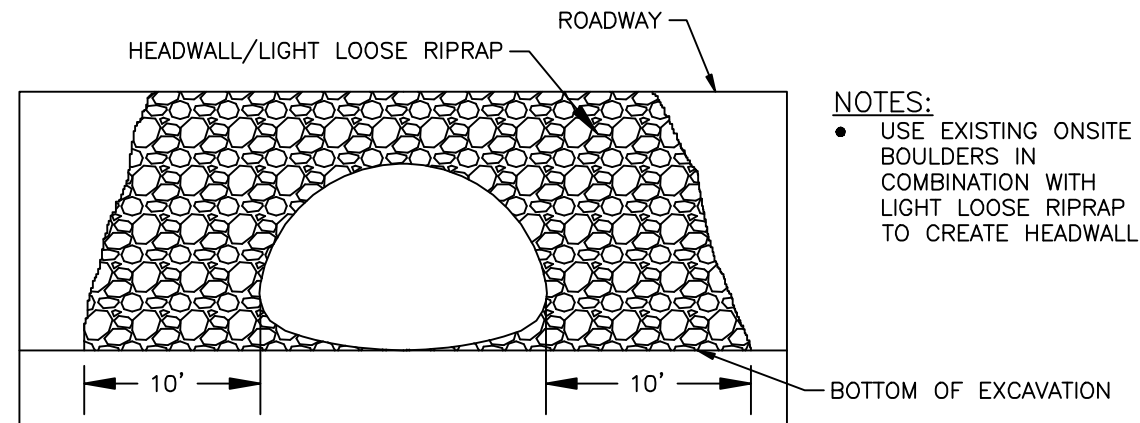
APPROACH APRON
PAVING DETAIL



NOTE:

- DRIVEWAY TO BE GRADED AS NEEDED TO MATCH FINISH GRADE OF ROADWAY. BLEND TO EDGE OF DRIVEWAY ASPHALT WITH CRUSHED SURFACING TOP COURSE.

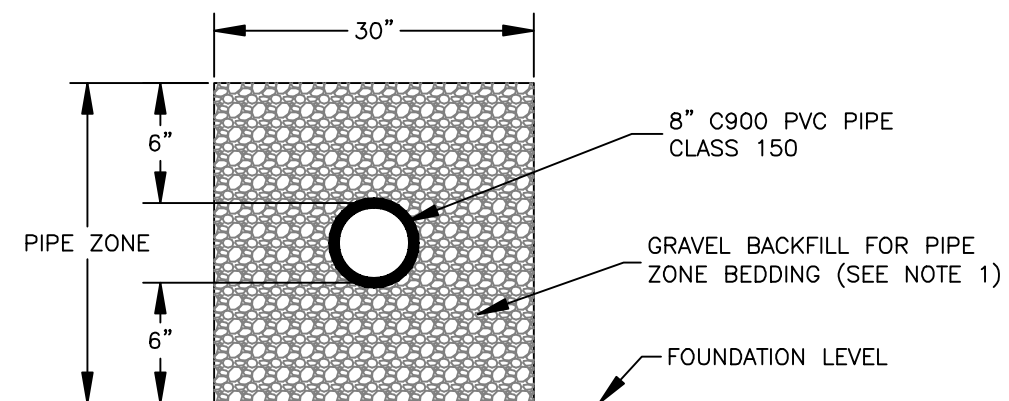
HEADWALL DETAIL



NOTES:

- USE EXISTING ONSITE BOULDERS IN COMBINATION WITH LIGHT LOOSE RIPRAP TO CREATE HEADWALL

WATER MAIN
TRENCH DETAIL



NOTES:

1. SEE STANDARD SPEC. SECTION 9-03.12(3) FOR GRAVEL BACKFILL FOR PIPE ZONE BEDDING
2. MATCH EXISTING WATER MAIN ELEVATION WHEN INSTALLING.

SAMISH ISLAND ROAD
CULVERT
REPLACEMENT

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SAMISH ISLAND
ROAD CULVERT
REPLACEMENT

TYPICAL & DETAIL

SHEET

8 OF 8