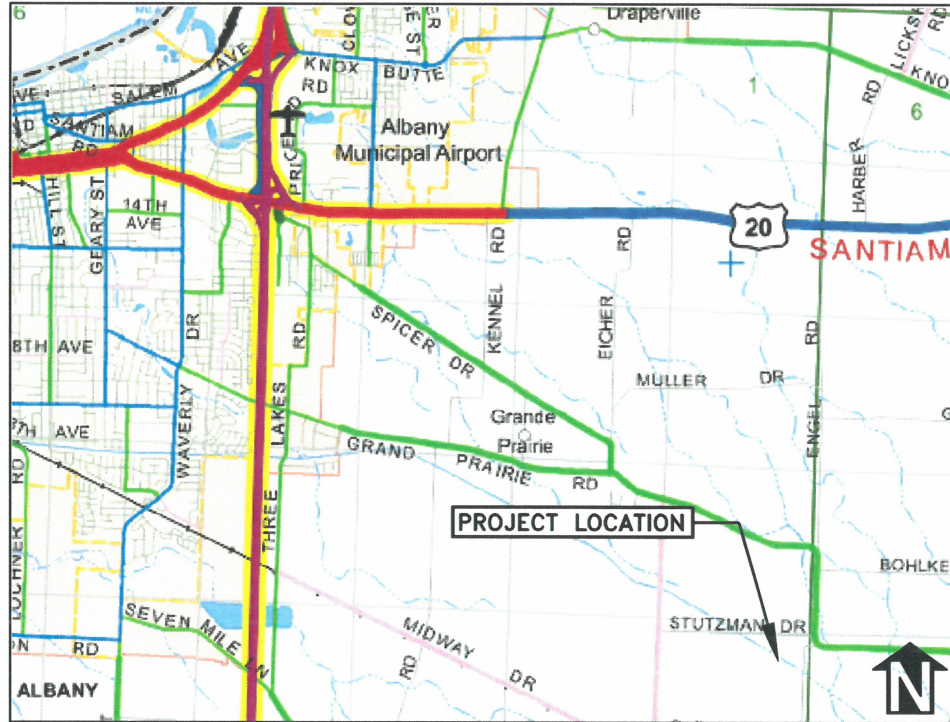


CITY OF ALBANY

WC-21-02, STUTZMAN ROAD CANAL BANK REPAIR



Area Map
Not to Scale



Vicinity Map
Not to Scale

PROJECT LOCATION

- TAX LOT 0210, MAP NO. 11S-03W-25, CITY OF ALBANY, LINN COUNTY, OREGON
- SEC. 20, T.11S, RANGE 3W
- LAT. 44.6057°, LONG. 123.0754°
- ALL ELEVATIONS SHOWN REFER TO NGVD 29 VERTICAL DATUM

SHEET INDEX

- SHEET 1 - COVER SHEET
- SHEET 2 - EXISTING CONDITIONS
- SHEET 3 - PROPOSED LAYOUT
- SHEET 4 - BANK REHABILITATION DETAIL
- SHEET 5 - SITE ACCESS, STAGING, & RESTORATION

GENERAL NOTES

- CONSTRUCTION MUST BE COMPLETED BETWEEN AUGUST 1 AND SEPTEMBER 1, 2021.
- THE PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE LAYOUT AND DETAILS INCLUDED IN THIS PLAN SET AND ALL PERTINENT CONDITIONS INCLUDED IN THE CITY OF ALBANY OPERATIONS AND MAINTENANCE GUIDELINES FOR THE SANTIAM-ALBANY CANAL.
- SURVEY CONTROL FOR CONSTRUCTION IS PROVIDED BY TWO WOODEN HUBS SET IN THE IMMEDIATE VICINITY BY K&D ENGINEERING. THE HUBS ARE LOCATED IN C.O.A ROW OUTSIDE THE IMMEDIATE PROJECT VICINITY. HUBS WILL BE IDENTIFIED AT PRE BID MEETING.
- CONSTRUCTION EQUIPMENT SHALL NOT OPERATE OUTSIDE THE PREDETERMINED ACCESS AREAS AS IDENTIFIED IN THE PLANS AND MARKED IN THE FIELD.
- STAGING AND STORAGE OF EQUIPMENT AND MATERIAL SHALL BE AS SHOWN ON THE PLANS AND MARKED IN THE FIELD.
- POWER EQUIPMENT SHALL BE INSPECTED DAILY FOR FLUID LEAKS. LEAKING EQUIPMENT MUST BE SHUT DOWN AND REPAIRED PRIOR TO FURTHER USE. DAILY INSPECTION REPORTS MUST BE MAINTAINED FOR EACH PIECE OF EQUIPMENT.
- MATERIAL DELIVERY SHALL BE TO THE DESIGNATED STORAGE LOCATIONS AS SHOWN ON THE PLANS AND MARKED IN THE FIELD.
- DO NOT DISTURB EXISTING TREES AND VEGETATION THAT HAVE NOT BEEN PREVIOUSLY MARKED FOR REMOVAL.
- A SITE WALK-THROUGH SHALL BE CONDUCTED AFTER COMPLETION OF THE PROJECT TO CONFIRM ALL SITE RESTORATION HAS BEEN COMPLETED PROPERLY AND THAT ALL EXCESS MATERIALS, TEMPORARY FEATURES, AND ALL EQUIPMENT FROM THE SITE HAS BEEN REMOVED.
- ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF ALBANY STANDARD CONSTRUCTION SPECIFICATIONS AND ASSOCIATED STANDARD DRAWINGS. THE CURRENT VERSION OF THE CITY OF ALBANY STANDARD CONSTRUCTION SPECIFICATIONS CAN BE FOUND ON THE CITY OF ALBANY'S WEBSITE AT www.cityofalbany.net
- UTILITIES SHOWN ARE FOR REFERENCE ONLY. FOR A FIELD LOCATE, CALL THE UTILITIES NOTIFICATION CENTER AT 1-800-332-2344.
- ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987).
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION PREVENTION SEDIMENT CONTROL (EPSC) MEASURES IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE CITY OF ALBANY, AND VEGETATION/LANDSCAPING IS ESTABLISHED. FOR GUIDANCE, REFER TO THE CITY OF ALBANY EPSC MANUAL WHICH CAN BE FOUND AT www.cityofalbany.net.

DESIGNED:	A. HIEMSTRA
DRAWN:	A. HIEMSTRA
CHECKED:	S. BELCASTRO
DATE:	4/20/21
REVISIONS	
NO:	BY:

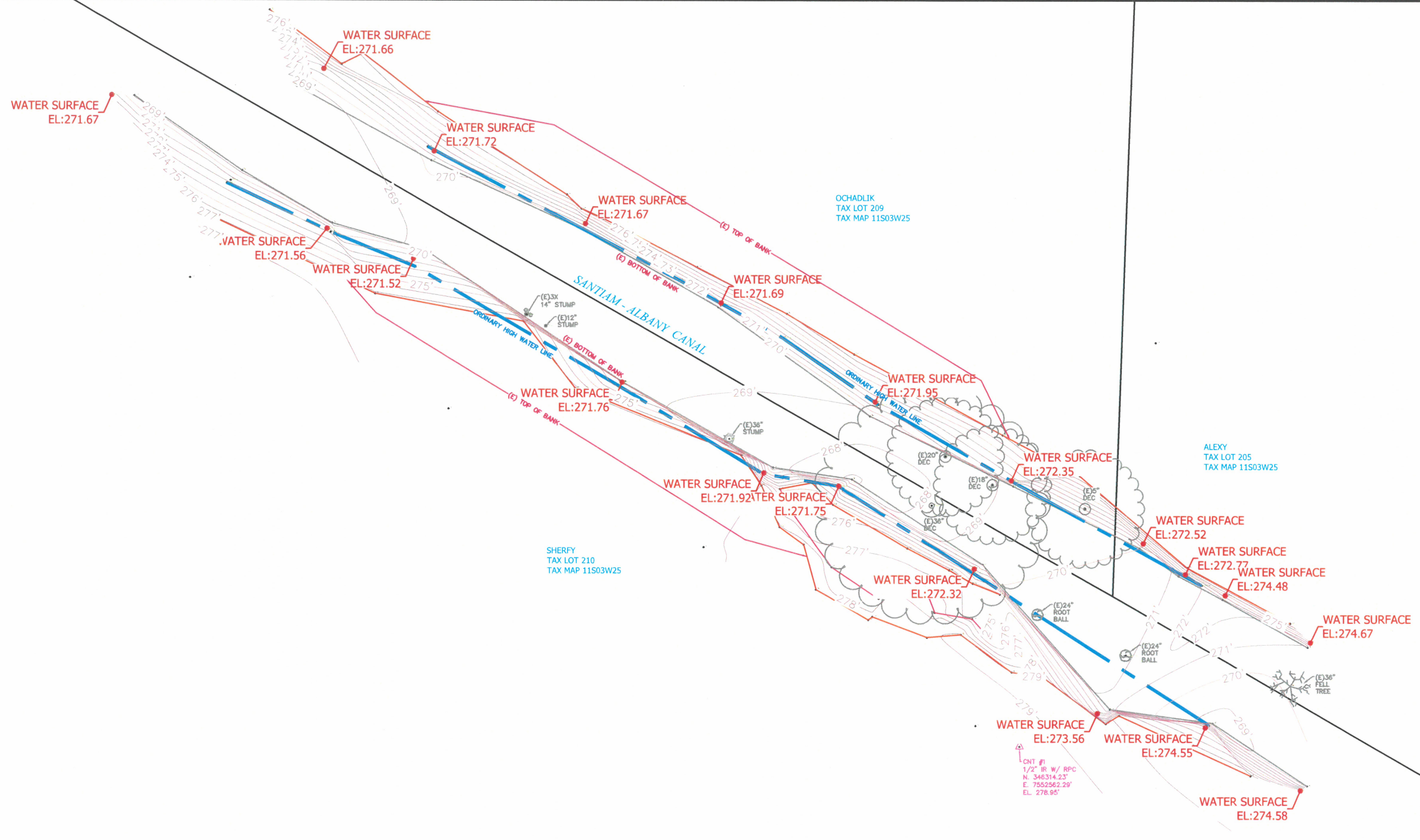
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES



WC-21-02 STUTZMAN ROAD CANAL BANK REPAIR
COVER SHEET



EXPIRATION DATE:	06/30/2023
SHEET NO.	1 OF 5
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FILE:	



PROJECT VERTICAL DATUM -- NGVD 29
 ALL ELEVATIONS ARE SHOWN ON THE VERTICAL DATUM OF NGVD 29. THE VERTICAL BENCHMARK USED FOR ESTABLISHING ELEVATIONS IS LINN COUNTY GPS CONTROL POINT 98011 LOCATED APPROXIMATELY 2300' SOUTH OF SPICER RD ON THE EASTERLY RIGHT-OF-WAY OF RED BRIDGE RD. CONTRACTOR IS TO NOTIFY ENGINEER/SURVEYOR TWO WORKING DAYS PRIOR TO DISTURBING EXISTING SURVEY MONUMENT(S). SURVEYOR IS TO RESTORE PER COUNTY SURVEYOR REQUIREMENTS AND ORS 209.150.

ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987).

THE LOCATION AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

- NOTE**
1. ORDINARY HIGH WATER PER CITY OF ALBANY TIED MARCH 30, 2021
 2. WATER SURFACE SHOTS TIED AS OF MARCH 30, 2021

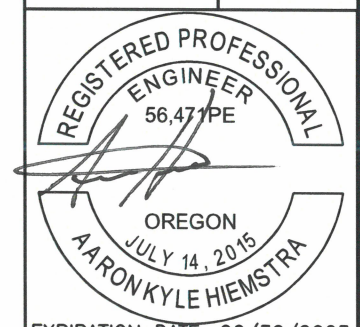
- ABBREVIATIONS LEGEND**
- (E) - EXISTING
 - ALUM - ALUMINUM
 - CO. - COUNTY
 - CS - COUNTY SURVEY
 - FD - FOUND
 - IR - IRON ROD
 - RPC - RED PLASTIC CAP
 - R/W - RIGHT-OF-WAY
 - W/ - WITH
 - WPC - WHITE PLASTIC CAP
 - YPC - YELLOW PLASTIC CAP

- EXISTING SYMBOL LEGEND**
- (E) TREE DECIDUOUS
 - (E) DECIDUOUS ROOTBALL
 - (E) TREE STUMP

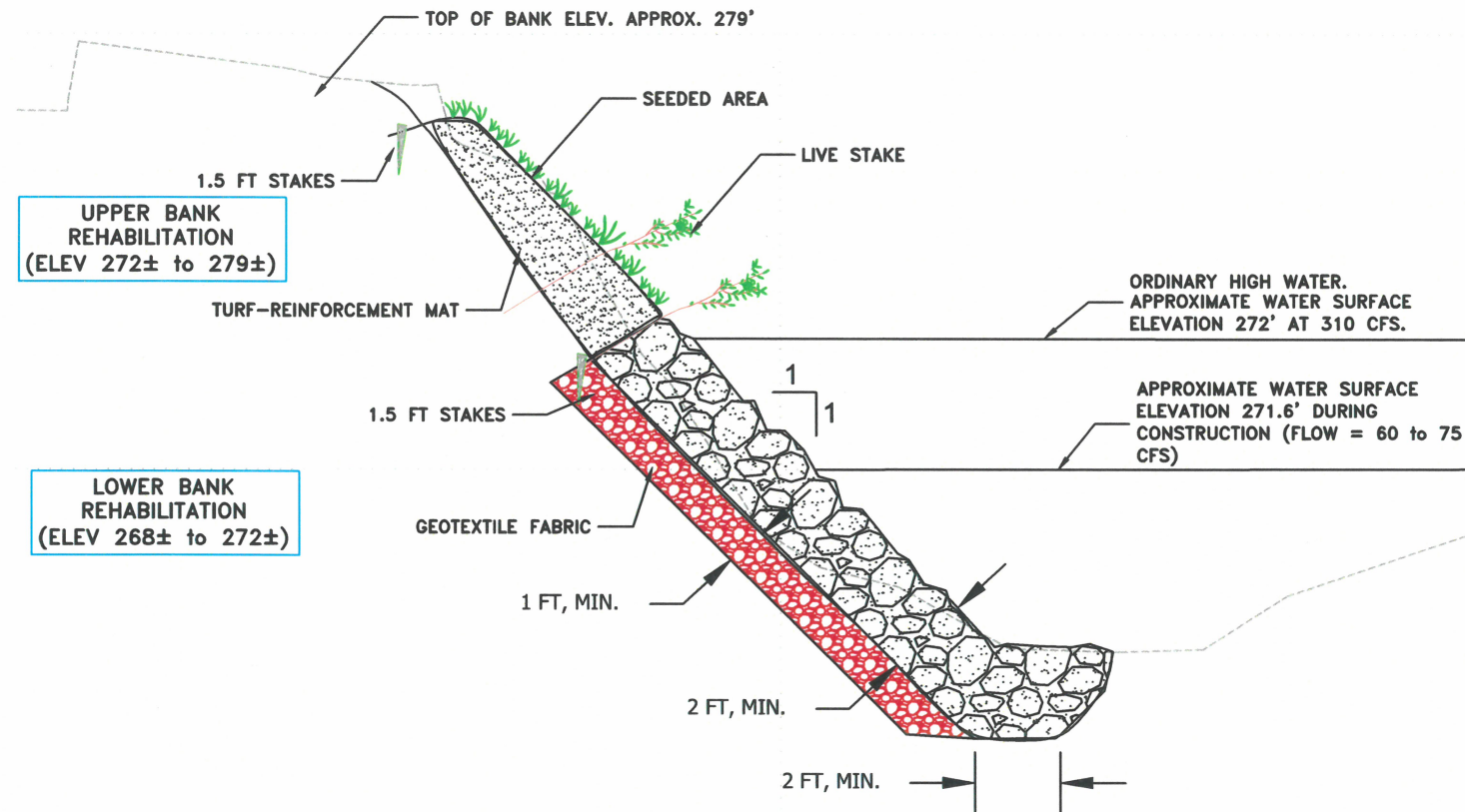
DESIGNED: A. HIEMSTRA	REVISIONS
DRAWN: A. HIEMSTRA	NO: ---
CHECKED: S. BELCASTRO	BY: ---
DATE: 4/20/21	DATE: ---

**PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES**

**WC-21-02 STUTZMAN ROAD CANAL BANK REPAIR
 EXISTING CONDITIONS**



EXPIRATION DATE: 06/30/2023
 SHEET NO. 2 OF 5
 PROJECT NO: WC-21-02
 FILE:



CONSTRUCTION NOTES

1. INSTALL SILT CURTAIN TO ISOLATE PROJECT AREA AND TO PREVENT TRANSPORT OF SEDIMENT LADEN WATER FROM THE PROJECT SITE. PURSUANT TO PERMIT REQUIREMENTS, COORDINATE REMOVAL AND RELOCATION OF ANY FISH AND OTHER AQUATIC SPECIES FROM THE ISOLATED AREA PRIOR TO ADDITIONAL WORK. SILT FENCE SHALL BE LOCATED A MINIMUM OF 5 FT AWAY FROM WORK AREA TO ALLOW EQUIPMENT TO WORK ON BANK. SILT CURTAIN SHALL EXTEND PAST WORK AREA AND TERMINATE AT STATION X+XX ON NORTH SOUTH BANK. SILT CURTAIN SHALL BE ANCHORED BY CONCRETE BARRIER TO APPROVED BY ENGINEER.
2. CLEAR EXISTING VEGETATION AND EXCAVATE TO DESIGN ELEVATIONS. REMOVE ALL LOSE MATERIAL FROM BANK FAILURE. MATERIAL UNSUITABLE FOR REUSE WILL BE DISPOSED OF OFF SITE. INSPECT TO ASSURE UPSTREAM RIPRAP SECTION IS SUITABLE FOR TIE IN WITH PROPOSED RIPRAP. ADJUSTMENTS AND/OR REMOVAL OF LOOSE OR UNSTABLE ROCK AT THIS TRANSITIONAL AREA MAY BE NECESSARY TO ASSURE A SMOOTH TRANSITION TO THE PROPOSED PROJECT. DO NOT DISTURB EXISTING TREES AND VEGETATION THAT ARE NOT WITHIN THE MINIMUM NECESSARY AREA REQUIRED FOR EXCAVATION AND CONSTRUCTION. GENERALLY, STUMP REMOVAL SHOULD NOT RESULT IN EXCAVATION DEEPER THAN WHAT IS NECESSARY FOR CONSTRUCTION OF BANK TREATMENT. ASSURE LOOSE MATERIAL IS REMOVED. EXCAVATION TO BE INSPECTED BY ENGINEER PRIOR TO PLACEMENT OF FILL.
3. CONSTRUCT LOWER BANK REHABILITATION: PLACE WELL-GRADED RIPRAP AS SHOWN ON PLANS AND DIRECTED IN FIELD. RIPRAP MUST BE KEYED-IN AND COMPACTED TOGETHER TO MINIMIZE VOIDS AND MAY REQUIRE REARRANGING BY MECHANICAL EQUIPMENT TO ASSURE STABILITY. RIPRAP MUST NOT BE PLACED ABOVE ELEVATION 233. BACKFILL BEHIND 1" WASHED GRAVEL SHALL BE NATIVE FILL.
4. CONSTRUCT UPPER BANK REHABILITATION: LOSE NATIVE MATERIAL SHALL BE REMOVED AND REUSED. PLACE SOIL AND EROSION CONTROL BLANKET AS SHOWN ON THE PLANS AND AS DIRECTED IN THE FIELD. EMBANKMENT FILL SHOULD BE PLACED IN LEVEL LIFTS AND BENCHED INTO THE EXISTING EMBANKMENT. COMPACT ALL FILL IN LIFTS NOT EXCEEDING 12 INCHES. EMBED AND AND STAKE ALL ENDS OF EROSION CONTROL BLANKET A MINIMUM OF 3 FT INTO EMBANKMENT FILL OR AS DIRECTED BY THEN ENGINEER. UPPER BANK TREATMENT TO TERMINATE AT THE EXISTING TOP OF BANK ELEVATION OF APPROXIMATELY 240.
5. BROADCAST NATIVE SEED MIX ON SOIL PRIOR TO PLACING EROSION CONTROL BLANKET. PLACE WILLOWS AS SHOWN AND AS DIRECTED BY THE ENGINEER. CUTTING TO BE PLACED NEAR ZONE INTERFACE AT 2 FT SPACING.

ESTIMATED MATERIAL QUANTITIES

EXCAVATION, (CY)	75
CLASS 300 RIPRAP (CY)	30
NATIVE SOIL BACKFILL (CY)	10
BioD-MAT 90, (SF)	765
1" MINUS WASHED GRAVEL	15
FILTER FABRIC (SF)	495
NATIVE SEED MIX (LB)	1
LIVE WILLOW CUTTINGS (EACH)	80
SILT CURTAIN WORK AREA ISOLATION (LF)	110


MATERIAL NOTES

LOWER BANK
 SILT CURTAIN - LAYFIELD FSC 13 OR EQUIVALENT.
 RIPRAP - SHALL CONSIST OF WELL-GRADED ODOT CLASS 300 RIPRAP
 1" MINUS WASHED ROCK SHALL BE PLACED 1 FT BEHIND RIPRAP.
 BACKFILL SHALL CONSIST OF NATIVE BACKFILL AS DEFINED IN UPPER BANK
 FILTER FABRIC - ODOT TYPE 1 DRAINAGE GEOTEXTILE OR EQUIVALENT

UPPER BANK
 SOILS - SHALL CONSIST OF APPROVED FINE-GRAINED SOIL FREE OF CONSTRUCTION DEBRIS, HIGH PLASTICITY CLAY, OR OTHER DELETERIOUS MATERIALS. FILL SHOULD CONTAIN NO PARTICLE SIZE GREATER THAN 3 INCHES. THE SOIL SHOULD HAVE A PLASTICITY INDEX (PI) BETWEEN 10 AND 20 BASED ON ASTM 04318. SAMPLES OF PROPOSED MATERIAL SHALL BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.
 SEED MIX - "BOAT BASIN DR PERMANENT SEED MIX" (PACIFIC NW NATIVES) OR EQUIVALENT.
 WILLOWS - LIVE CUTTINGS WITH A MINIMUM STEM DIAMETER OF 1 INCH AND MINIMUM LENGTH OF 4 FEET.
 TURF REINFORCEMENT MAT OR JUTE - BIOd-MAT 90
 STAKES - WOODEN STAKES 1.5 FT LONG

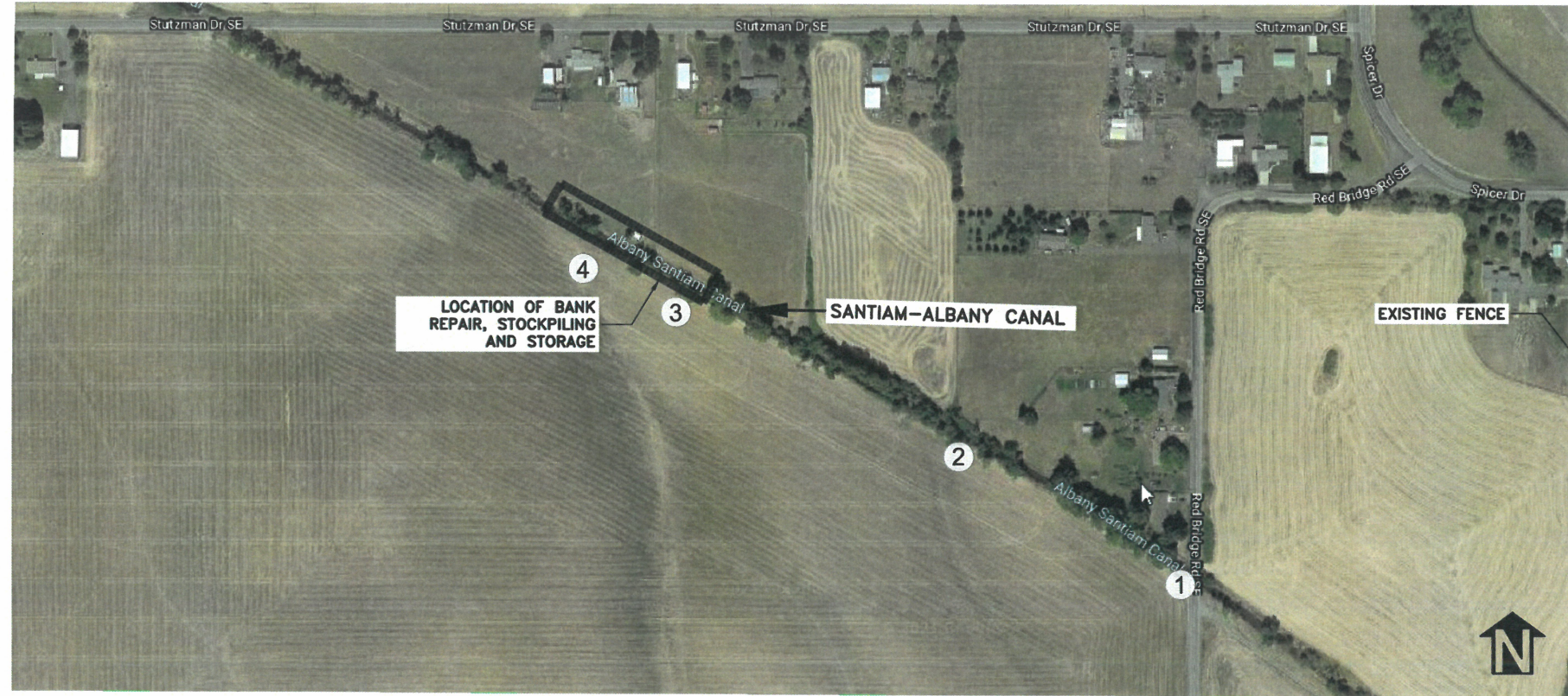
DESIGNED: A. HIEMSTRA	REVISIONS
DRAWN: A. HIEMSTRA	NO: --
CHECKED: S. BELCASTRO	BY: --
DATE: 4/20/21	DATE: --
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	BY: --
	DATE: --

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES



WC-21-02 STUTZMAN ROAD CANAL BANK REPAIR
DETAILS

EXPIRATION DATE: 06/30/2023
 SHEET NO. 4 OF 5
 PROJECT NO: WC-21-02
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SITE ACCESS, STAGING & RESTORATION NOTES

- ① ACCESS TO AND FROM SITE AND ALL STAGING/STORAGE LOCATIONS OBTAINED AT GATE ON RED BRIDGE ROAD. TRAFFIC CONTROL MUST BE PROVIDED AS NECESSARY FOR ENTRY AND EXIT AT THE RED BIDGE ROAD. ANY DAMAGE WILL BE REPAIRED OR REPLACED WITHIN 14 DAYS AFTER PROJECT IS COMPLETE.
- ② UTILIZE EXISTING FARMING FIELD TO ACCESS SITE. MONITOR CONDITION OF EQUIPMENT AND REMEDY ANY OIL LEAKS OR SPILLS ON GROUND.
- ③ WORK TO BE COMPLETED FROM IN THE DRY ON THE SOUTH BANK. THE EXISTING ELECTRIC FENCE MAY BE TEMPORARILY RELOCATED TO THE SOUTH TO ACCOMMODATE EXCAVATOR ACTIVITY AND MATERIAL STORAGE. THE FENCE MAY BE TEMPORARILY MOVED A MAXIMUM OF 20 FEET WITH COORDINATION WITH PROPERTY OWNER. RELOCATION LIMITS WILL BE MARKED IN THE FIELD PRIOR TO THE TEMPORARY FENCE RELOCATION. UPON COMPLETION OF THE PROJECT THE FENCE MUST BE REPLACED AT ITS ORIGINAL LOCATION.
- ④ ALL GRASSES AREAS DISTURBED DURING CONSTRUCTION MUST BE MUST BE RESEEDED AND RESTORED TO ITS ORIGINAL CONDITION. RESEEDING ON PRIVATE PROPERTY MUST BE COORDIANTE WITH PROPERTY OWNER FOR SEED VARIETY.

DESIGNED: A. HIEMSTRA	REVISIONS
DRAWN: A. HIEMSTRA	NO: ---
CHECKED: S. BELCASTRO	BY: ---
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DATE: ---	---
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DATE: ---	---

**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES**



**WC-21-02 STUTZMAN ROAD CANAL BANK REPAIR
SITE ACCESS**



EXPIRATION DATE: 06/30/2023
SHEET NO. 5 OF 5
PROJECT NO: WC-21-02
FILE: