# **CITY OF ALBANY** WC-21-01, 40TH AVE CANAL BANK REPAIR





Area Map Not to Scale

## PROJECT LOCATION

# Vicinity Map

#### Not to Scale SHEET INDEX

TAX LOT 0312 AND 0313, MAP NO. 11S-03W-20AB, CITY OF ALBANY, LINN COUNTY,

SEC. 20, T.11S, RANGE 3W

**OREGON** 

LAT. 44.6057°, LONG. 123.0754°

ALL ELEVATIONS SHOWN REFER TO NGVD 29 VERTICAL DATUM

SHEET 1 - COVER SHEET

SHEET 2 - EXISTING CONDITIONS SHEET 3 - PROPOSED LAYOUT

SHEET 4 - BANK REHABILITATION DETAIL

SHEET 5 - SITE ACCESS, STAGING, & RESTORATION

## CONSTRUCTION MUST BE COMPLETED BETWEEN AUGUST 1 AND SEPTEMBER 30, 2021.

GENERAL NOTES

- 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 MEEETING.
- 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 ANDS ASSOCIATED STANDARD DRAWINGS. THE CURRENT VERSION OF THE CITY OF ALBANY STANDARD CONSTRUCTION SPECIFICATIONS CAN BE FOUND ON THE CITY OF ALBANYS 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.

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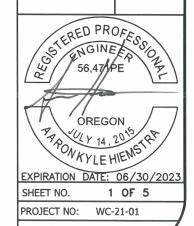
**PUBLIC WORKS DEPARTMENT** ENGINEERING SERVICES



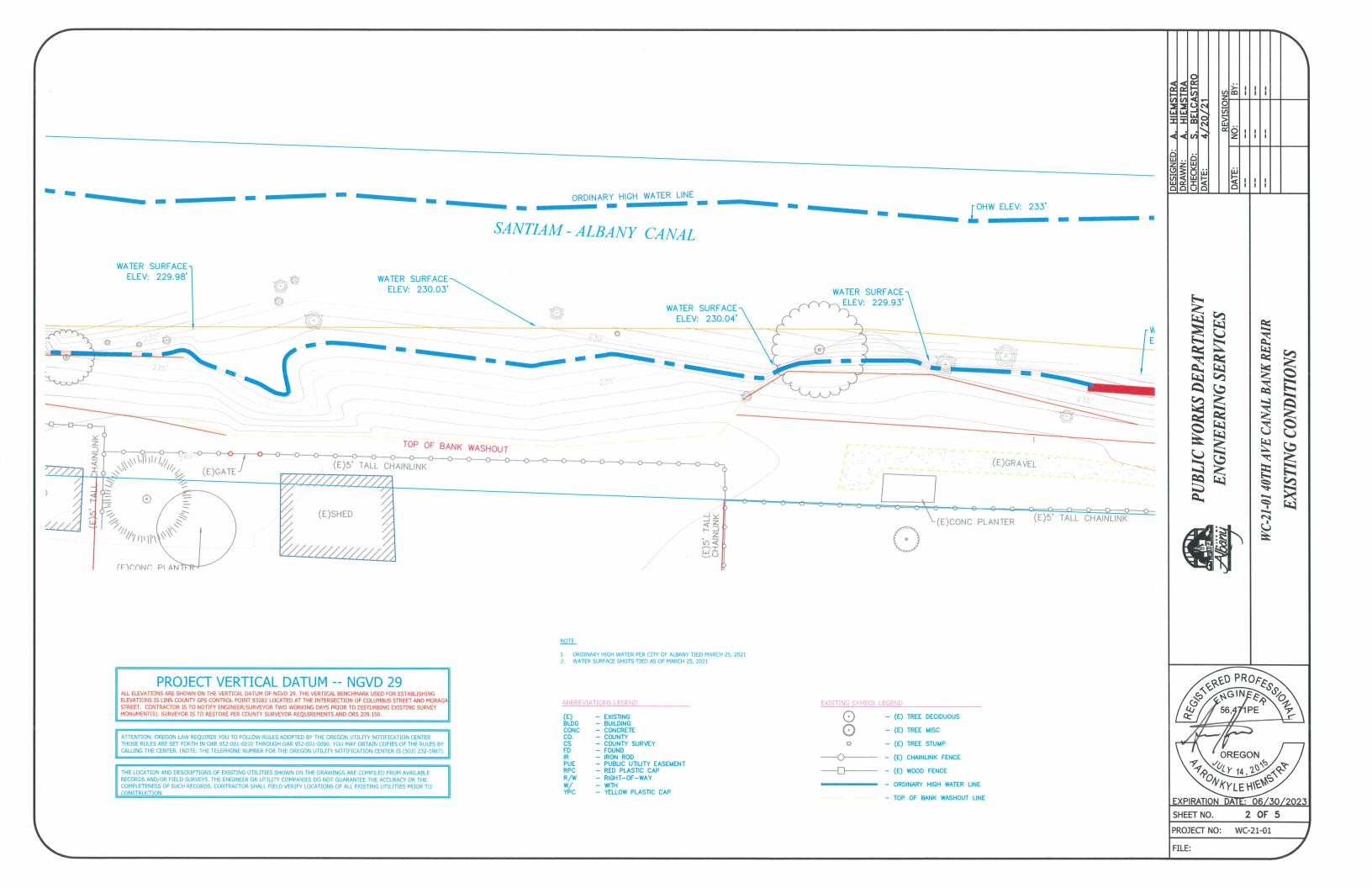
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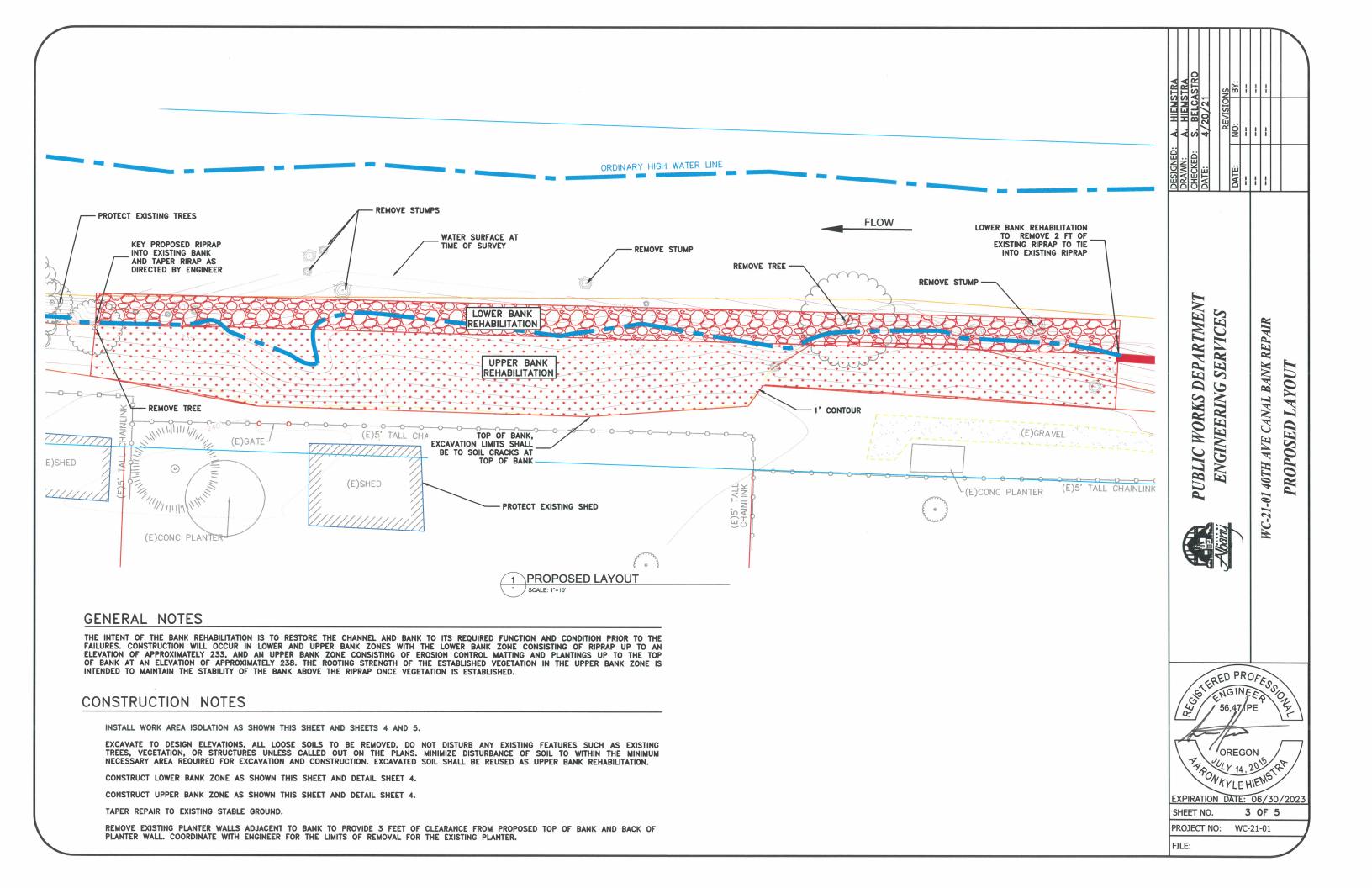
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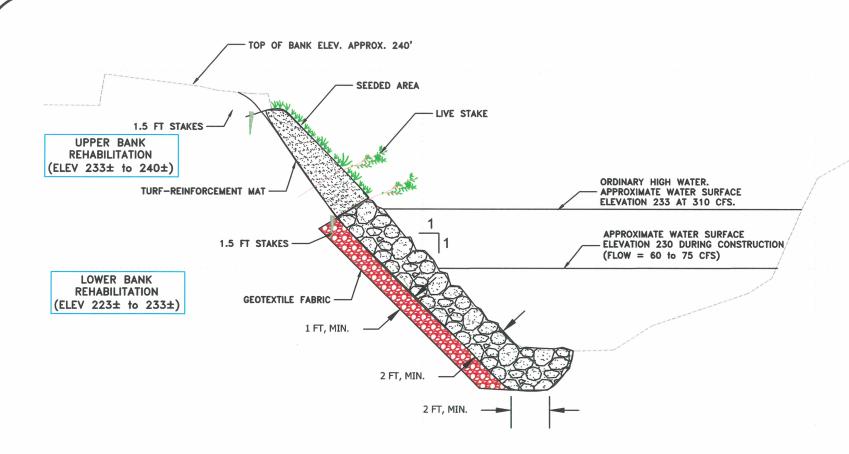




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### CONSTRUCTION NOTES

- 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)	260
CLASS 300 RIPRAP (CY)	120
TOPSOIL (CY)	20
BioD-MAT 90, (SF)	3375
1" MINUS WASHED GRAVEL	60
FILTER FABRIC (SF)	1440
NATIVE SEED MIX (LB)	3
LIVE WILLOW CUTTINGS (EACH)	250
SILT CURTAIN WORK AREA ISOLATION (LF)	235

#### MATERIAL NOTES

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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

PUBLIC WORKS DEPARTMENT  Albain  ENGINEERING SERVICES	WC-21-01 40TH AVE CANAL BANK REPAIR	BANK REHABILITATION DETAILS		
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EXPIRATION DATE: 06/30/202

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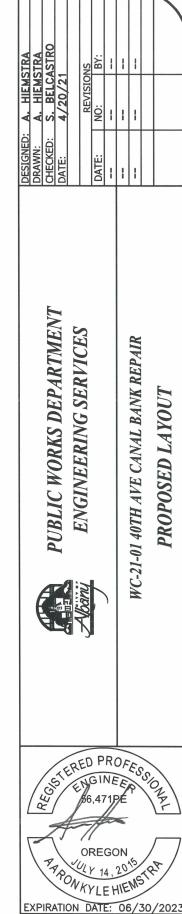
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## SITE ACCESS, STAGING & RESTORATION NOTES

- ACCESS TO AND FROM SITE AND ALL STAGING/STORAGE LOCATIONS OBTAINED AT GATE ON WAVERLY DRIVE. TRAFFIC CONTROL MUST BE PROVIDED AS NECESSARY FOR ENTRY AND EXIT AT THE WAVERLY GATE. STEEL PLATES MUST BE PLACED OVER ALL PUBLIC INFRASTRUCTURE (EXISTING CURB, GUTTER AND SIDEWALK) TO PREVENT DAMAGE. ANY DAMAGE WILL BE REPAIRED OR REPLACED WITHIN 14 DAYS AFTER PROJECT IS COMPLETE. FOOT TRAFFIC FROM 40th AVENUE TO THE SOUTH BANK WILL BE AVAILABLE AT 2373 40th AVENUE.
- 2 UTILIZE EXISTING MAINTENANCE/ACCESS ROAD ADJACENT TO CANAL. MONITOR CONDITION OF ROAD DAILY AND CANAL BANK AND NOTIFY THE ENGINEER OF ANY CHANGING CONDITIONS ALONG TRAVEL WAY OR CANAL BANK THAT OCCUR DURING CONSTRUCTION.
- WORK TO BE COMPLETED FROM IN THE DRY ON THE NORTH BANK. THE EXISTING FENCE MAY BE TEMPORARILY RELOCATED TO THE NORTH TO ACCOMMODATE EXCAVATOR ACTIVITY AND MATERIAL STORAGE. THE FENCE MAY BE TEMPORARILY MOVED A MAXIMUM OF 20 FEET NORTH FROM ITS EXISTING LOCATION. 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.
- ALL GRASSES AREAS DISTURBED DURING CONSTRUCTION MUST BE MUST BE RESEEDED AND RESTORED TO ITS ORIGINAL CONDITION. RESEEDING ON SOUTH ALBANY HIGH SCHOOL PROPERTY MUST BE COMPLETED IN TIME FOR GRASS TO BE ESTABLISHED BY SEPTEMBER 31st, 2021.



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