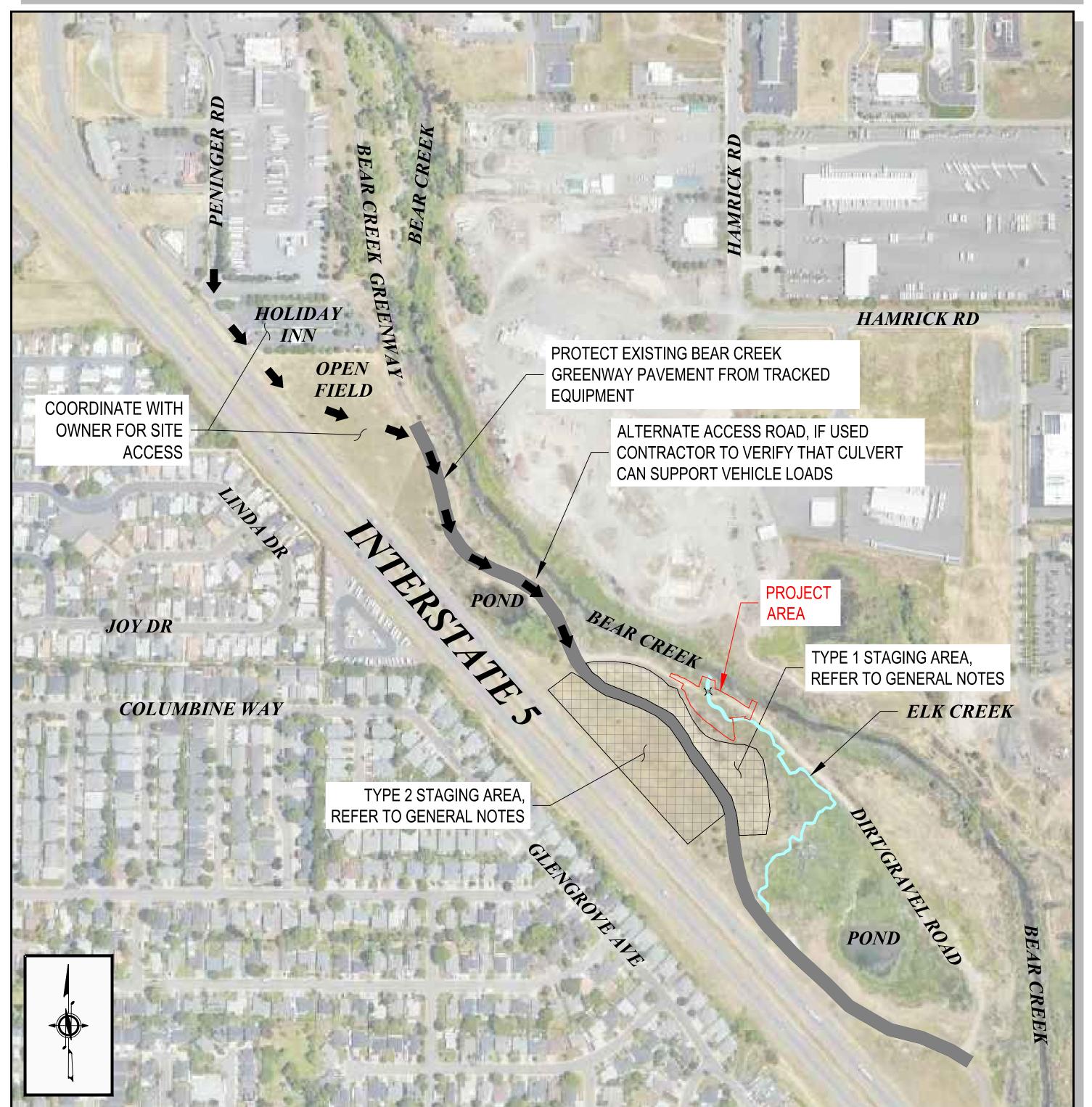
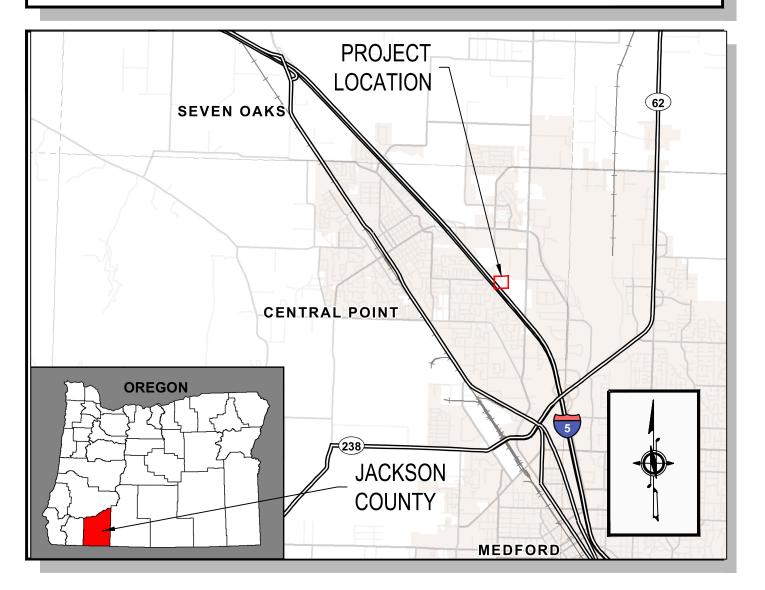


CITY OF CENTRAL POINT ELK CREEK CULVERT REPLACEMENT

SITE ACCESS MAP



PROJECT VICINITY MAP



CALL 48 HOURS BEFORE YOU DIG ONE CALL 811

LEGEND



SUMMER 2024

	DRAWING INDEX	NG INDEX			
NO	SHEET TITLE	DWG NO			
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	DETAILS - SHEET 1 OF 5	D01			
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REPORT SPILLS

DETAILS - SHEET 3 OF 5

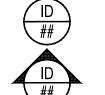
DETAILS - SHEET 4 OF 5

CONTACT PERSONNEL

CONTACT	AGENCY	PHONE
ODEO ODAVEO	CITY OF CENTRAL POINT	(E44) CC4 0004 v00E
GREG GRAVES	CITY OF CENTRAL POINT	(541) 664-3321 x225
TYLER DUNCAN, P.E.	RH2 ENGINEERING	(541) 326-4448
NICK BAKKE	RVSS	(541) 727-6874
ERIC CHASE	SPECTRUM	(541) 210-0827
RYLAN WOOD	PACIFIC POWER	(541) 858-3204
ELI HABERMAN	AVISTA	(541) 690-0901
CAMERON DIBETTA	LUMEN	(541) 324-0549

SECTION AND DETAIL REFERENCES

THE FOLLOWING CONVENTIONS HAVE BEEN USED WITHIN THESE DRAWINGS TO REFER THE READER BETWEEN THE SECTION/DETAIL AND THE PLAN FROM WHICH IT IS REFERENCED. REFERENCE BUBBLES



PLAN REFERENCE BUBBLE - REFERS READER BACK TO THE PLAN FROM WHICH THE DETAIL OR SECTION ORIGINATED.

DETAIL/SECTION REFERENCE BUBBLE - REFERS READER TO THE DRAWING ON WHICH THE DETAIL OR SECTION IS LOCATED.

ID = SECTION/DETAIL REFERENCE NUMBER

= DRAWING NUMBER ON WHICH DETAIL ORIGINATED OR RESIDES.

SECTION/DETAIL REFERENCE NUMBER CONVENTIONS: SECTIONS OR ELEVATIONS SHOULD HAVE A LETTER REFERENCE NUMBER (A THROUGH ZZ).





D04

GENERAL NOTES

PROJECT INFORMATION

PROJECT SITE:

APPROXIMATELY 550 FEET WEST OF NORTHBOUND I—5 MILE MARKER 32 IN CENTRAL POINT, OREGON.

LAT: 42°22'18.23"N

LON: 122°53'35.76"W OWNER:

CITY OF CENTRAL POINT
CITY OF CENTRAL POINT PUBLIC WORKS DEPARTMENT

140 S 3RD STREET, CENTRAL POINT, OR 97502 ENGINEER:

RH2 ENGINEERING, INC. 3553 ARROWHEAD DR. STE. 200, MEDFORD OR 97504

CRITERIA

CONSTRUCTION OF ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH CITY OF CENTRAL POINT STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS, AND THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, LATEST EDITION, AS ISSUED BY THE OREGON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION.

- 2. ALL BUILDING MATERIALS, WORKMANSHIP, DESIGN AND CONSTRUCTION SHALL CONFORM TO THESE DRAWINGS, SPECIFICATIONS, AND OREGON SPECIALTY CODES, LATEST EDITION.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE PROVISIONS OF ALL APPLICABLE PERMITS AND APPROVALS ISSUED BY THE CITY OF CENTRAL POINT AND OTHER REGULATORY AUTHORITIES FOR THIS PROJECT.

I REFERENCES

- . <u>SURVEY:</u> A TOPOGRAPHICAL SURVEY WAS PREPARED FOR THIS PROJECT BY NEATHAMER SURVEYING, INC. SEE SURVEY INFORMATION ON SHEET GO2.
- 2. <u>GEOTECHNICAL:</u> NO GEOTECHNICAL REPORT OR INVESTIGATIONS WERE MADE IN CONJUNCTION WITH THIS PROJECT. ANY REFERENCES TO GEOLOGIC CONDITIONS ARE BASED ON FIELD OBSERVATIONS BY THE ENGINEER. ONSITE SOILS ARE COBBLY SANDS WITH SOME FINES, TYPICAL OF NATIVE STREAMBED MATERIAL IN THE ROGUE VALLEY, UNDERLAID BY HARDPAN.
- 3. <u>WETLAND DELINEATION REPORT:</u> A WETLAND DELINEATION REPORT WAS PREPARED FOR THIS PROJECT BY RABE CONSULTING.
- 4. <u>PERMITS:</u> CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS AND IS RESPONSIBLE FOR OBTAINING ANY OTHER REQUIRED OR RELATED PERMITS PRIOR TO BEGINNING CONSTRUCTION. PERMITS OBTAINED BY THE CITY INCLUDE:
 - 4.1. CITY OF CENTRAL POINT FLOODPLAIN DEVELOPMENT PERMIT
 - 4.2. UNITED STATES ARMY CORPS OF ENGINEERS AND OREGON DEPARTMENT OF STATE LANDS JOINT FILL—REMOVAL PERMIT
 - 4.3. OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY SECTION 401 WATER QUALITY PERMIT
 - 4.4. OREGON DEPARTMENT OF FISH AND WILDLIFE FISH SALVAGE PERMIT

GENERAL CONSTRUCTION

- I. A COPY OF THE APPROVED PLANS AND SPECIFICATIONS MUST BE ON-SITE WHENEVER CONSTRUCTION IS IN PROGRESS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY OTHER REQUIRED OR RELATED PERMITS PRIOR TO BEGINNING CONSTRUCTION.
- 2. IN THE EVENT THAT STANDARD CONSTRUCTION NOTES ARE FOUND TO BE IN CONFLICT WITH PROJECT SPECIFIC NOTES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. WHERE CONFLICTS ARISE, THE CONTRACTOR SHALL ASSUME THAT THE THE MORE RESTRICTIVE CONDITION SHALL APPLY.
- 3. THE CITY PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED AT LEAST 2 WORKING DAYS PRIOR TO COMMENCING ANY PROJECT CONSTRUCTION.
- 4. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE PRE-QUALIFIED, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 5. THE CONTRACTOR SHALL NOT PERFORM WORK WITHOUT AGENCY INSPECTIONS WHERE INSPECTIONS ARE REQUIRED.
- 6. REQUESTS BY THE CONTRACTOR FOR CHANGES TO THE PLANS MUST BE APPROVED BY RH2 ENGINEERING, INC. BEFORE CHANGES ARE IMPLEMENTED.
- 757.541 TO 757.571, WHICH INCLUDE REQUIREMENTS THAT THE CONTRACTOR HAND-EXPOSE (POTHOLE) UNDERGROUND FACILITIES AND USE REASONABLE CARE TO AVOID DAMAGING THEM.

WHEN PERFORMING EXCAVATIONS, THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ORS

- 8. GRANULAR MATERIALS SHALL BE OBTAINED FROM A SOURCE APPROVED BY THE CITY OF CENTRAL POINT. THE CONTRACTOR SHALL NOTIFY THE CITY OF THE MATERIAL SOURCE PRIOR TO ANY GRANULAR MATERIAL PLACEMENT AND SHALL NOT CHANGE MATERIAL SOURCE WITHOUT APPROVAL.
- 9. ALL CONCRETE SHALL BE 3300 PSI AT 28 DAYS UNLESS OTHERWISE SPECIFIED.

GENERAL NOTES

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR.
- 2. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM ADVANCE NOTIFICATION TO THE OWNER, ENGINEER, AND ALL AFFECTED UTILITY COMPANIES PRIOR TO ACTUAL START OF WORK.
- 3. CONSTRUCTION STAKING SHALL BE PERFORMED A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION BY A SURVEYOR HOLDING A VALID PROFESSIONAL LAND SURVEYING LICENSE ISSUED BY THE STATE OF OREGON.
- PROTECTION OF THE ENVIRONMENT: NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED LOCAL, STATE, OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL.
- 5. UNLESS OTHERWISE NOTED, ALL TREES, STRUCTURES, UTILITIES, EQUIPMENT, AND ALL OTHER ITEMS NOT INDICATED TO BE DISCONNECTED AND/OR REMOVED SHALL REMAIN AND BE PROTECTED.
- 6. AN AS-BUILT SURVEY OF THE PROJECT SHALL BE SUBMITTED PRIOR TO FINAL INSPECTION.

SITE

CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE OWNER AND ADJACENT PROPERTY OWNERS FOR ACCESS THROUGH AND STORAGE OF MATERIALS AND EQUIPMENT.

- . DO NOT DISTURB ANY AREAS OUTSIDE OF CONSTRUCTION LIMITS.
- 3. PRIOR TO ANY SIGNIFICANT GROUND DISTURBANCE OR ENTRY OF MECHANIZED EQUIPMENT OR VEHICLES INTO THE CONSTRUCTION AREA, CLEARLY MARK WITH FLAGGING OR SURVEY MARKING PAINT THE FOLLOWING AREAS:
 - 3.1. SENSITIVE AREAS, E.G. WETLANDS, WATER BODIES, SPAWNING AREAS WILL BE FLAGGED AND IDENTIFIED BY A QUALIFIED BIOLOGIST.

- 3.2. EQUIPMENT ENTRY AND EXIT POINTS.
- 3.3. ROAD AND STREAM CROSSING ALIGNMENTS.
- 3.4. STAGING, STORAGE, AND STOCKPILE AREAS.
- 4. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING INTEGRITY AND SECURITY OF SITE TO DISCOURAGE ACCESS BY UNAUTHORIZED PERSONNEL.
- 5. REFER TO STAGING AREA LOCATIONS AND TYPES SHOWN ON THE COVER SHEET, WHICH SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - 5.1. TYPE 1 STAGING AREA: NO FUELING OR SERVICING OF VEHICLES OR EQUIPMENT NOR STORAGE OF HAZARDOUS MATERIALS, FUELS, OR EQUIPMENT WITH FUEL TANKS LARGER THAN 5 GALLONS IS ALLOWED WITHIN TYPE 1 STAGING AREAS. NATURAL MATERIALS MAY BE STORED WITHIN TYPE 1 STAGING AREAS PROVIDED ADEQUATE EROSION CONTROL MEASURES ARE PROVIDED TO AVOID RUNOFF OF SEDIMENT AND NATURAL MATERIALS.
 - 5.2. TYPE 2 STAGING AREA: EQUIPMENT, FUEL, HAZARDOUS MATERIALS, FUELING AND SERVICING OPERATIONS MAY OCCUR WITHIN TYPE 2 STAGING AREAS, WHICH ARE DEFINED AS BEING A MINIMUM OF 150 FEET FROM ANY NATURAL WATER BODY OR WETLAND. ALL VEHICLES ARE TO BE CLEANED OF ALL EXCESS CONCRETE AND DIRT PRIOR TO LEAVING THE SITE.
- 6. THE CONTRACTOR SHALL CLEANUP ALL AREAS AFFECTED BY HIS ACTIVITIES TO THE SATISFACTION OF THE OWNER BY THE END OF EACH WORKING DAY OR MORE FREQUENTLY IF REQUIRED BY THE OWNER. THIS INCLUDES REMOVAL OF ALL DUST, MUD, ROCKS, TRASH, AND REFUSE FROM STREETS, SIDEWALKS, DRIVEWAYS, AND ANY OTHER AREAS AFFECTED BY CONSTRUCTION ACTIVITIES. FAILURE TO CLEANUP TO THE SATISFACTION OF THE OWNER WILL NECESSITATE A SHUTDOWN OF THE PROJECT UNTIL CLEANUP IS PROPERLY PERFORMED. DAILY CLEANUP IS AN INTEGRAL PART OF EROSION AND POLLUTION CONTROL. IN ADDITION, THE CONTRACTOR SHALL PROTECT ALL ROADS FROM DAMAGE AND SEDIMENT TRANSPORT DURING CONSTRUCTION. ANY DAMAGE OR CLEANUP SHALL BE SOLELY AT THE CONTRACTOR'S EXPENSE AND BE COMPLETED TO THE SATISFACTION OF THE OWNER.
- 7. CONTRACTOR IS SOLELY RESPONSIBLE FOR MEETING ALL DISPOSAL REQUIREMENTS INCLUDING OFF SITE DISPOSAL OF WASTE MATERIAL AT APPROVED SITES.
- 8. PLACEMENT OR STORAGE OF SPOILS IS NOT PERMITTED ON HARD SURFACE STREETS OR BIKE PATHS WITHIN PUBLIC RIGHT-OF-WAY. SPOILS STORED IN OTHER AREAS SHALL BE COVERED TO PREVENT EROSION AND/OR SEDIMENT TRANSPORT.
- 9. AFTER CONSTRUCTION IS COMPLETE, OBLITERATE ALL TEMPORARY ACCESS ROADS, CROSSINGS, STAGING, STORAGE, AND STOCKPILE AREAS, STABILIZE THE SOIL, AND REVEGETATE. ALL BARE EARTH AREAS SHALL BE SEEDED WITH AN APPROVED NATIVE SEED MIX UNLESS NOTED OTHERWISE, REFER TO PLANTING PLAN AND THE SPECIFICATIONS.
- 6. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EXISTING OR BETTER CONDITION UNLESS OTHERWISE STATED ON THE PLANS.
- 7. NO HERBICIDES OR PESTICIDES SHALL BE USED IN CONJUNCTION WITH THIS PROJECT.

8. TEMPORARY ACCESS ROADS AND PATHS:

- 8.1. EXISTING ACCESS ROADS ONLY SHALL BE USED.
- 8.2. RESTORE ACCESS ROADS TO EXISTING OR BETTER CONDITIONS, OR AS INDICATED ELSEWHERE IN THESE PLANS.
- 9. RESTORE ANY SIGNIFICANT DISTURBANCE OF RIPARIAN VEGETATION, SOILS, STREAM BANKS OR STREAM CHANNEL.
- 10. LOOSEN SOILS TO PROMOTE REVEGETATION AND INFILTRATION IN ALL AREAS USED AS TEMPORARY ACCESS ROADS, STAGING, AND OTHER AREAS WHERE SOILS HAVE BEEN COMPACTED BY CONSTRUCTION ACTIVITY. IN GRASSY AREAS, SOILS SHALL BE LOOSENED TO A DEPTH OF 3—INCHES, AND IN RIPARIAN AREAS, SOILS SHALL BE LOOSENED TO A DEPTH OF 8—INCHES. A VARIETY OF IMPLEMENTS/METHODS ARE AVAILABLE TO DE—COMPACT SOILS, INCLUDING: WINGED SUBSOILERS, ROCK RIPPER, EXCAVATORS WITH BRUSH RAKES, MULCHING HEADS, OR CUSTOM ATTACHMENTS SUCH AS THE SUBSOILING GRAPPLE RAKE AND SUBSOILING EXCAVATING BUCKET (EGG. RIPPING SOILS WITH AN EXCAVATOR BUCKET MOUNTED WITH TEETH). IN AREAS OF DISPERSED SOIL DISTURBANCE SPOT TILLAGE MAY BE IMPLEMENTED.

WORK AREA ISOLATION AND IN-WATER WORK

- 1. ALL IN-WATER WORK SHALL BE CONDUCTED WITHIN THE IN-WATER WORK PERIOD, WHICH IS JUNE 15TH THROUGH AUGUST 30TH.
- 2. PRIOR TO ANY WORK WITHIN ELK CREEK AND PRIOR TO DEWATERING THE WORK AREA, FISH WITHIN THE WORK AREA WILL BE SALVAGED AND RELOCATED BY A QUALIFIED FISH BIOLOGIST WITH A VALID ODFW SALVAGE PERMIT. SALVAGED FISH WILL BE PLACED INTO ELK CREEK UPSTREAM OF THE ISOLATED WORK AREA. BEAR CREEK IS GENERALLY TOO HOT TO SUPPORT NATIVE MIGRATORY FISH SPECIES DURING THE SPECIFIED CONSTRUCTION PERIOD. SALVAGE SERVICES WILL BE PROVIDED BY THE CITY, AND CONTRACTOR SHALL SUBMIT THEIR DEWATERING PLAN AND COORDINATE FISH SALVAGE A MINIMUM OF SEVEN CALENDAR DAYS PRIOR TO THE REQUESTED DATE OF FISH SALVAGE.
- 3. DOWNSTREAM FISH PASSAGE WILL BE ACCOMPLISHED WITH A BYPASS PIPE. REFER TO THE PLAN AND DETAIL SHEETS WITHIN THIS PLAN SET FOR ADDITIONAL INFORMATION.
- 4. WHENEVER A PUMP IS USED TO DEWATER THE ISOLATED WORK AREA, A FISH SCREEN MEETING THE MOST CURRENT VERSION OF NMFS'S FISH SCREEN CRITERIA SHALL BE USED, AND NMFS VERIFICATION IS REQUIRED FOR PUMPING AT A RATE THAT EXCEEDS 3 FPS.
- 5. SEEPAGE WITHIN THE WORK AREA SHALL BE PUMPED INTO A TEMPORARY STORAGE AND TREATMENT SITE, OR TO UPLAND AREAS AND BE ALLOWED TO PERCOLATE INTO THE SOIL, OR ALTERNATIVELY A VEGETATED AREA AND TREATMENT SYSTEM TO REMOVE TURBIDITY SHALL BE IMPLEMENTED SUCH THAT SEDIMENT LADEN WATER DOES NOT COME INTO CONTACT WITH ELK CREEK OR BEAR CREEK.
- 6. MONITOR THE CONSTRUCTION SITE TWICE PER DAY TO ENSURE THAT NO STRANDING OF AQUATIC ORGANISMS OCCURS, AND REMOVE ANY SUCH ORGANISMS FROM THE SITE UPSTREAM INTO ELK CREEK AS NECESSARY.
- WHEN CONSTRUCTION IS COMPLETE AND HAS BEEN APPROVED BY THE ENGINEER, RE-WATER THE CONSTRUCTION SITE SLOWLY TO PREVENT A SUDDEN INCREASE IN TURBIDITY.

UTILITIES

- 1. UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON AS-BUILT FIELD LOCATION OF EXISTING STRUCTURES. OTHER UTILITIES OR DEVIATIONS FROM THESE PLANS MAY EXIST. NO SUB-SURFACE EXPLORATION WAS MADE TO VERIFY UTILITY ROUTINGS AND THE ROUTING OF ALL BURIED UTILITIES SHOULD BE CONFIRMED WITH THE UTILITY PURVEYOR AND EXPOSED IN AREAS CRITICAL TO CONSTRUCTION FOR VERIFICATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION OF ANY EARTHWORK OR OTHER ACTIVITIES WHICH COULD POTENTIALLY DAMAGE EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY OREGON UTILITY NOTIFICATION CENTER AND THE CITY OF CENTRAL POINT PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY AND THE UTILITY COMPANY WHEN A CONFLICT OCCURS OR WHEN A CONFLICT IS ANTICIPATED.
- 2. OVERHEAD UTILITIES: NOT ALL OVERHEAD UTILITIES MAY BE SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO INDEPENDENTLY VERIFY ALL OVERHEAD UTILITIES. THE CONTRACTOR SHALL ACCOUNT FOR ACCOMMODATING ALL OVERHEAD UTILITIES IN THEIR BID AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR FACILITATING OVERHEAD UTILITIES.
- 3. EXISTING WATER AND POWER FACILITIES MAY NOT BE SHUT DOWN FOR ANY PERIOD WITHOUT PRIOR APPROVAL FROM OWNER. A MINIMUM OF ONE WEEK NOTICE TO THE OWNER IS REQUIRED FOR ANY SHUT DOWN. THE CONTRACTOR SHALL NOT OPERATE EXISTING WATER, SEWER, OR POWER SYSTEM EQUIPMENT

(VALVES, SWITCHES, ETC.).

- 4. THE CONTRACTOR SHALL NOTIFY FRANCHISE OFFICIAL, A MINIMUM OF 48 HOURS IN ADVANCE OF ANY PLANNED DISRUPTION TO UTILITIES INCLUDING, BUT NOT LIMITED TO WATER, SEWER, NATURAL GAS, IRRIGATION, TELEPHONE, POWER, CABLE AND FIBER OPTICS.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND STRUCTURES.

DEMOLITION NOTES

- 1. ALL TREES, STRUCTURES, UTILITIES, EQUIPMENT, AND ALL OTHER ITEMS NOT INDICATED TO BE DISCONNECTED AND/OR REMOVED SHALL REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED.
- 2. CONTRACTOR SHALL REMOVE ALL COMPONENTS SHOWN TO BE DEMOLISHED IN THEIR ENTIRETY, AND SHALL PROPERLY DISPOSE OF ALL REMOVED ITEMS.
- 3. CONTRACTOR SHALL INSTALL STREAM DIVERSION SYSTEM AND ALL NECESSARY TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO COMMENCING ANY GRUBBING, EARTHWORK, OR OTHER WORK THAT COULD RELEASE SEDIMENT INTO WATERWAYS.

TRAFFIC CONTROL

- 1. THE CONTRACTOR SHALL PREPARE A WRITTEN AND DRAWN TCP WHICH SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO THE PRE—CONSTRUCTION CONFERENCE IN ACCORDANCE WITH SECTION 00225 OF THE STANDARD SPECIFICATIONS.
- 2. CONTRACTOR SHALL SAFEGUARD THE PERSONS AND PROPERTY OF THE TRAVELING PUBLIC. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ERECTING AND MAINTAINING TRAFFIC CONTROL THROUGHOUT THE PROJECT DURATION IN ACCORDANCE WITH THE APPROVED TCP. ALL TRAFFIC CONTROL DEVICES SHALL MEET MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES STANDARDS.
- 3. CONTRACTOR SHALL PROVIDE FOR EMERGENCY VEHICLE ACCESS TO ALL PROPERTIES ADJACENT TO THE PROJECT SITE AT ALL TIMES.
- 4. WHEN CONSTRUCTION ACTIVITIES BLOCK OR INTERFERE WITH NORMAL PEDESTRIAN AND BICYCLIST ROUTING, PROVIDE SAFE PASSAGE FOR PEDESTRIANS AND BICYCLISTS EITHER THROUGH THE CONSTRUCTION, OR REROUTED AROUND THE CONSTRUCTION, UTILIZING ODOT STANDARD DRAWING TM844 AND THE REQUIREMENTS OF SUBSECTION 00220.02(B) OF THE STANDARD SPECIFICATIONS.

GENERAL TESC

- THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE EROSION CONTROL STANDARDS AND IS SOLELY RESPONSIBLE FOR IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF TESC FACILITIES AS REQUIRED TO PREVENT EROSION UNTIL ALL CONSTRUCTION IS APPROVED. REFER TO THE OREGON CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL MANUAL, LATEST EDITION.
- 2. PRIOR TO COMMENCEMENT OF ANY SIGNIFICANT EARTHWORK, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING WETLANDS OR NATURAL WATER BODIES.
- 3. IN THE EVENT OF ANY EROSION CONTROL MEASURE FAILURE, IMMEDIATE ACTION SHALL BE TAKEN TO REPAIR, REPLACE, OR IMPLEMENT ADDITIONAL MEASURES AS REQUIRED TO ENSURE ADEQUATE EROSION CONTROL PROTECTION.
- 4. ANY DISCHARGE OF SEDIMENT-LADEN RUN-OFF OR OTHER POLLUTANTS TO WATERS OF THE STATE IS SUBJECT TO ENFORCEMENT ACTION, THE COST FOR WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 5. DURING CONSTRUCTION, ALL RELEASES OF OILS, HYDRAULIC FLUIDS, FUELS, OTHER PETROLEUM PRODUCTS, PAINTS, SOLVENTS, AND OTHER DELETERIOUS MATERIALS MUST BE CONTAINED AND REMOVED IN A MANNER THAT WILL PREVENT THEIR DISCHARGE TO WATERS AND SOILS. THE CLEANUP OF SPILLS SHALL TAKE PRECEDENCE OVER OTHER WORK ON THE PROJECT. BARRELS, PETROPHILIC PADS, TARPS, AND OTHER EQUIPMENT NECESSARY FOR CAPTURING, CONTROLLING, AND DISPOSING OF HAZARDOUS FLUIDS SHALL BE AVAILABLE ON—SITE AT ALL TIMES.
- 6. PROPER EROSION AND SEDIMENT CONTROL PRACTICES MUST BE USED ON THE CONSTRUCTION SITE AND ADJACENT AREAS TO PREVENT SEDIMENTS FROM ENTERING THE NATURAL DRAINAGE SYSTEM. ALL SURFACE AREAS DISTURBED AND ANY EMBANKMENTS OR EXCAVATIONS CREATED BY CONSTRUCTION ACTIVITIES MUST BE REVEGETATED OR PROVIDED AN EQUIVALENT TYPE OF PROTECTION AGAINST EROSION.
- AS THE HIGHEST PRIORITY WORK AT ANY TIME THE TESC MEASURES AND/OR FACILITIES DO NOT MEET THE PERMIT, CITY, OR PLAN REQUIREMENTS.

 8. DUST CONTROL MUST BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL SWEEP TO REMOVE

DUST AND DEBRIS FROM PAVEMENT AREAS AS DIRECTED BY THE OWNER'S REPRESENTATIVE. FLUSHING

7. OWNER REPRESENTATIVES MAY DIRECT MAINTENANCE AND REPAIR OF TESC MEASURES AND/OR FACILITIES

9. DURING THE CONSTRUCTION PERIOD, THE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) AS DIRECTED BY THE ENGINEER, OWNER, OR REGULATORY AGENCY. THE CONTRACTOR SHALL BE COGNIZANT OF FUTURE WEATHER PATTERNS AND PLAN ACCORDINGLY.

OF STREETS SHALL NOT BE PERMITTED WITHOUT PRIOR APPROVAL.

- 10. CLEARING AND GRUBBING WHERE REQUIRED SHALL BE PERFORMED WITHIN THE CONSTRUCTION AREAS SHOWN ON THE PLANS. DEBRIS RESULTING FROM THE CLEARING AND GRUBBING SHALL BE DISPOSED OF BY THE CONTRACTOR AND IN ACCORDANCE WITH THE TERMS OF ALL APPLICABLE PERMITS.
- 11. THE CONTRACTOR SHALL FENCE ALL VEGETATION TO BE RETAINED ON SITE TO THE DRIPLINE FOR TREES OR OUTER VEGETATION EDGE FOR SHRUBS. FENCING SHALL BE HIGH-VISIBILITY CONSTRUCTION FENCE TO BE RETAINED FOR THE DURATION OF THE CONSTRUCTION.
- 12. TESC MATERIALS ON HAND THE CONTRACTOR SHALL KEEP A SUFFICIENT SUPPLY OF TESC MATERIALS ON HAND TO REMEDY ANY FAILURE OF TESC BMPS THAT IS DETRIMENTAL TO DOWNSTREAM OR ADJACENT DRAINAGE DITCHES, CONVEYANCE SYSTEMS, OR OTHER PROPERTIES. THESE MATERIALS INCLUDE, BUT ARE NOT LIMITED TO: SANDBAGS, SILT FENCE, EROSION CONTROL BLANKET, ROCK, STRAW OR MULCH.
- 13. THE TESC FACILITIES SHALL BE INSPECTED AT LEAST WEEKLY BY THE CONTRACTOR'S TESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING.
- 14. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR FOURTEEN CONSECUTIVE DAYS DURING THE WET SEASON OR THIRTY DAYS DURING THE DRY SEASON SHALL BE STABILIZED WITH THE APPROVED TESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- 15. OREGON LAW REQUIRES THAT SPILLS BE REPORTED TO THE FOLLOWING ENTITIES:

OREGON EMERGENCY RESPONSE SYSTEM: 1-503-378-6377 THE NATIONAL RESPONSE CENTER: 1-800-424-8802

16. DURING CONSTRUCTION:

- 16.1. COMPLETE EARTHWORK IN WETLANDS, RIPARIAN AREAS, AND STREAM CHANNELS AS QUICKLY AS POSSIBLE.
- 16.2. CEASE PROJECT OPERATIONS WHEN HIGH FLOWS MAY INUNDATE THE PROJECT AREA, EXCEPT FOR EFFORTS TO AVOID OR MINIMIZE RESOURCE DAMAGE.

 16.3. IF ERODED SEDIMENT APPEARS LIKELY TO BE DEPOSITED IN THE STREAM DURING

CONSTRUCTION, INSTALL ADDITIONAL SEDIMENT BARRIERS AS NECESSARY.

- 16.4. TEMPORARY EROSION CONTROL MEASURES MAY INCLUDE FIBER WATTLES, SILT FENCES, JUTE MATTING, WOOD FIBER MULCH AND SOIL BINDER, OR GEOTEXTILES AND GEOSYTHEIC FABRIC.
- 16.5. SOIL STABILIZATION USING WOOD FIBER MULCH AND TACKIFIER (HYDRO—APPLIED) MAY BE USED TO REDUCE EROSION OF BARE SOIL, IF THE MATERIALS ARE FREE OF NOXIOUS WEEDS AND NONTOYIC TO ACHARIC AND TERRESTRIAL ANIMALS. SOIL MICROPROADISMS. AND VECETATION
- NONTOXIC TO AQUATIC AND TERRESTRIAL ANIMALS, SOIL MICROORGANISMS, AND VEGETATION.

 16.6. INSPECT AND MONITOR POLLUTION AND EROSION CONTROL MEASURES THROUGH THE LENGTH OF
- THE PROJECT.

 16.7. REMOVE SEDIMENT FROM EROSION CONTROLS IF IT REACHES ONE—THIRD OF THE EXPOSED HEIGHT OF THE CONTROL.
- 16.8. WHENEVER SURFACE WATER IS PRESENT, MAINTAIN A SUPPLY OF SEDIMENT CONTROL MATERIALS AND AN OIL ABSORBING FLOATING BOOM AT THE PROJECT SITE.
- 16.9. STABILIZE ALL DISTURBED SOILS FOLLOWING ANY BREAK IN WORK UNLESS CONSTRUCTION WILL RESUME WITH IN FOUR DAYS.
- 17. REMOVE TEMPORARY EROSION CONTROLS AFTER CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN FULLY STABILIZED.

HAZARDOUS MATERIAL SAFETY

- I. AT THE PROJECT SITE:

 1.1. POST WRITTEN PROCEDURES BY THE GRANTEE FOR NOTIFYING ENVIRONMENTAL RESPONSE
 AGENCIES, INCLUDING AN INVENTORY AND DESCRIPTION OF ALL HAZARDOUS MATERIALS
- PRESENT, AND THE STORAGE AND HANDLING PROCEDURES FOR THEIR USE.

 1.2. MAINTAIN A SPILL CONTAINMENT KIT, WITH SUPPLIES AND INSTRUCTIONS FOR CLEANUP AND
- DISPOSAL, ADEQUATE FOR THE TYPES AND QUANTITIES OF HAZARDOUS MATERIALS PRESENT.

 1.3. WORKERS WILL BE TRAINED IN SPILL CONTAINMENT PROCEDURES, INCLUDING THE LOCATION AND
- 1.4. TEMPORARILY CONTAIN ANY WASTE LIQUIDS GENERATED UNDER AN IMPERVIOUS COVER, SUCH AS A TARPAULIN, IN THE TYPE 2 STAGING AREA UNTIL THE WASTES CAN BE PROPERLY TRANSPORTED TO, AND DISPOSED OF, AT AN APPROPRIATE RECEIVING FACILITY.

EQUIPMENT. VEHICLES. AND POWER TOOLS

PREVENT ANY LEAK OR SPILL FROM ENTERING THE WATER.

USE OF SPILL CONTAINMENT KITS.

. SELECT, OPERATE AND MAINTAIN ALL HEAVY EQUIPMENT, VEHICLES, AND POWER TOOLS TO MINIMIZE DAMAGE TO NATURAL VEGETATION AND PERMEABLE SOILS, E.G., LOW PRESSURE TIRES, MINIMAL HARD-TURN PATHS FOR TRACK VEHICLES, USE OF TEMPORARY MATS OR PLATES TO PROTECT WET SOILS.

- 2. BEFORE ENTERING WETLANDS OR WORKING WITHIN 150 FEET OF A WATER BODY:
 - 2.1. POWER WASH ALL HEAVY EQUIPMENT, VEHICLES AND POWER TOOLS, ALLOW THEM TO FULLY DRY, AND INSPECT THEM FOR FLUID LEAKS, AND TO MAKE CERTAIN NO PLANTS, SOIL, OR OTHER ORGANIC MATERIAL ARE ADHERING TO THE SURFACE.
 - 2.2. ENSURE ALL EQUIPMENT TO BE OPERATED BELOW ORDINARY HIGH WATER IS LEAK FREE OR OPERATING WITH BIODEGRADABLE PRODUCTS. THIS DOES NOT APPLY TO VEHICLES AND EQUIPMENT THAT ARE DOING ROAD WORK AND/OR PASSING THROUGH A PROJECT AREA (E.G., DOZERS, GRADERS, ETC.).
- 3. INSPECT AND REPEAT CLEANING AS OFTEN AS NECESSARY DURING OPERATION TO KEEP ALL EQUIPMENT, VEHICLES, AND POWER TOOLS FREE OF EXTERNAL FLUIDS AND GREASE, AND TO PREVENT A LEAK OR SPILL FROM ENTERING THE WATER.
- 4. AVOID USE OF HEAVY EQUIPMENT, VEHICLES OR POWER TOOLS BELOW OHW UNLESS PROJECT SPECIALISTS DETERMINE SUCH WORK IS NECESSARY, OR IF IT IS A TEMPORARY STREAM CROSSING OR WOULD RESULT IN LESS RISK OF SEDIMENTATION OR OTHER ECOLOGICAL DAMAGE THAN WORK ABOVE THAT ELEVATION.

BEFORE ENTERING THE WATER, INSPECT ANY WATERCRAFT, WADERS, BOOTS, OR OTHER GEAR/EQUIPMENT

MAINTAINED. OR STORED WITHIN 150 FEET OF ANY WATER BODY IS ALSO PROTECTED AS NECESSARY TO

TO BE USED IN OR NEAR WATER AND REMOVE ANY PLANTS, SOIL, OR OTHER ORGANIC MATERIAL ADHERING TO THE SURFACE.

6. ENSURE THAT ANY GENERATOR, CRANE OR OTHER STATIONARY HEAVY EQUIPMENT THAT IS OPERATED,

ABBREVIATIONS

ı	BP	BEGINNING POINT	NAVD	NORTH AMERICAN VERTICAL DATUM
ı	CFS	CUBIC FEET PER SECOND	NMFS	NATIONAL MARINE FISHERIES SERVICE
1	CLSM	CONTROLLED LOW STRENGTH MATERIAL	ODFW	OREGON DEPARTMENT OF FISH AND
1	CONC	CONCRETE		WILDLIFE
1	CL	CENTERLINE	ODOT	OREGON DEPARTMENT OF
1	DIAM	DIAMETER		TRANSPORTATION
1	DI	DUCTILE IRON	OHW	ORDINARY HIGH WATER
1	DWG	DRAWING	PC	POINT OF CURVE
1	Е	EASTING	PI	POINT OF INTERSECTION
1	EA	EACH	PROP	PROPOSED
1	EG	EXISTING GRADE	PT	POINT OF TANGENCY
1	EL	ELEVATION	PVC	POLYVINYL CHLORIDE
1	ELEV	ELEVATION	R	RADIUS
1	EP	ENDING POINT	RJ	RESTRAINED JOINT
1	EX	EXISTING	SCH	SCHEDULE
1	FG	FINISHED GRADE	SPEC	SPECIFICATIONS
1	ΙE	INVERT ELEVATION	ST	STORM
1	INCL	INCLUDE/INCLUDING	STA	STATION
1	GPS	GLOBAL POSITIONING SYSTEM	STD	STANDARD
1	HAT		STL	STEEL
1	L	LENGTH	TESC	TEMPORARY EROSION AND SEDIMENT
1	LAT	LATITUDE		CONTROL
1	LF	LINEAR FEET	TCP	TRAFFIC CONTROL PLAN
1	LON	LONGITUDE	TYP	TYPICAL
1	MIN	MINIMUM	W	WATER
1	MAX	MAXIMUM	Δ	CHANGE IN ANGLE
ı	N	NORTHING		





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CITY OF CENTRAL P
K CREEK CULVERT REPLA

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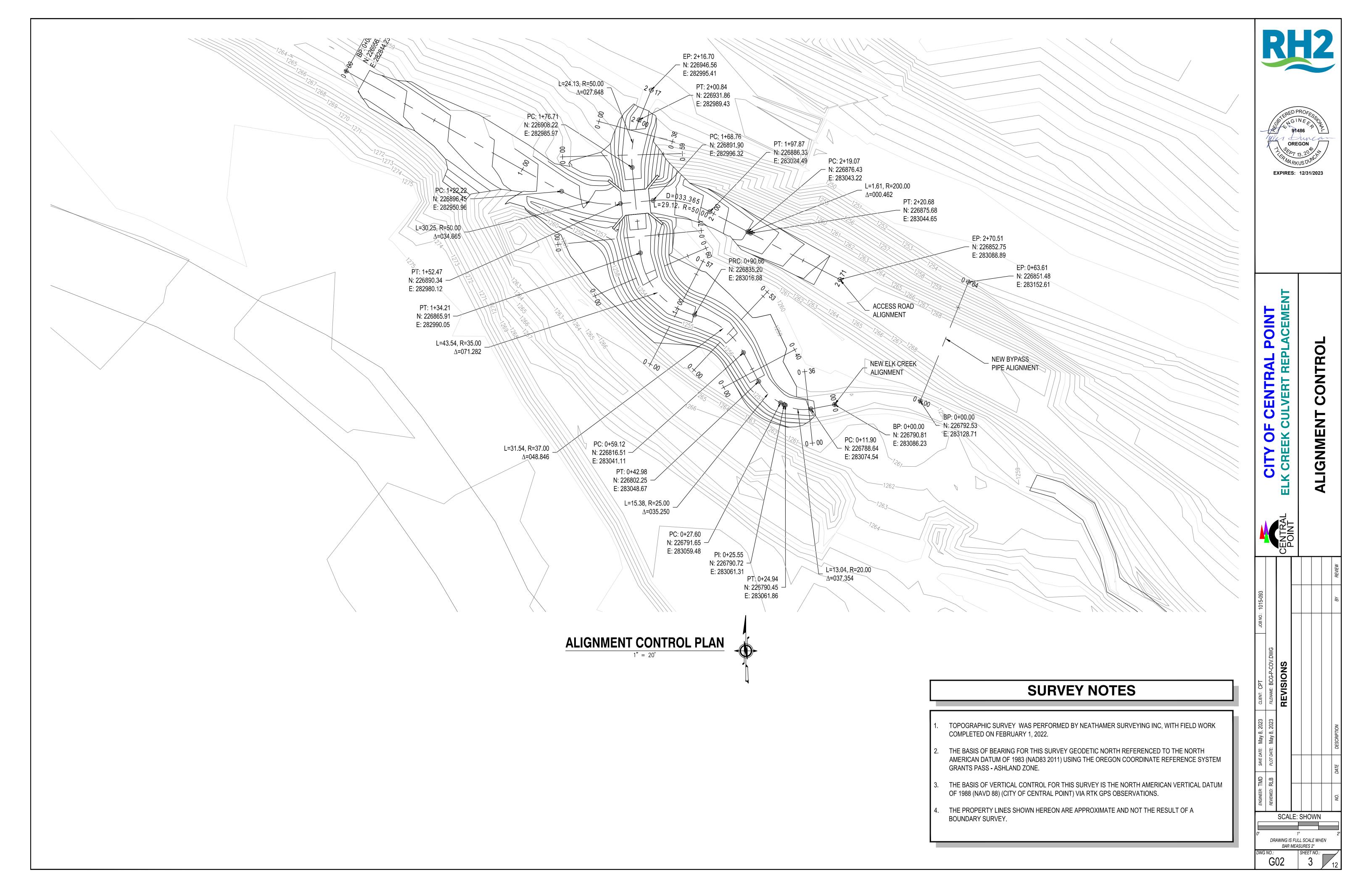
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DRAWING IS FULL SCALE WHEN

BAR MEASURES 2"

DWG NO.: SHEET NO.:







OREGON

EXPIRES: 12/31/2023

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DEMOLITION

GENERAL NOTES

- LOCATION OF EX UTILITIES AND STRUCTURES ARE FROM LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY THE CITY AND UNDERGROUND SERVICES ALERT 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXISTING UTILITY LOCATIONS.
- ALL TREES, STRUCTURES, UTILITIES, EQUIPMENT, AND ALL OTHER ITEMS NOT INDICATED TO BE DISCONNECTED AND/OR REMOVED SHALL REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL REMOVE ALL COMPONENTS SHOWN TO BE DEMOLISHED IN THEIR ENTIRETY, AND SHALL PROPERLY DISPOSE OF ALL REMOVED ITEMS.

KEY NOTES

- 1) REMOVE (2) EXISTING CULVERTS AND GUARDRAIL.
- (2) CLEAR AND GRUB AREA TO LIMITS SHOWN.
- (3) ODOT TYPE 4 SANDBAG CHECK DAM APPROX 3' HIGH, REFER TO DETAIL RD1005 ON SHEET D04.
- (4) 12" DIAMETER BY APPROX 60' LONG TEMPORARY BYPASS PIPE INSTALLED 24" ABOVE THALWEG. ALLOW FOR APPROX 1 CFS BYPASS FLOW TO BEAR CREEK. REFER TO
- 5 REMOVE EXISTING TREE(S), SALVAGE FOR USE IN CONSTRUCTING ROOT WAD STRUCTURES.
- 6 PROTECT EXISTING TREE(S).

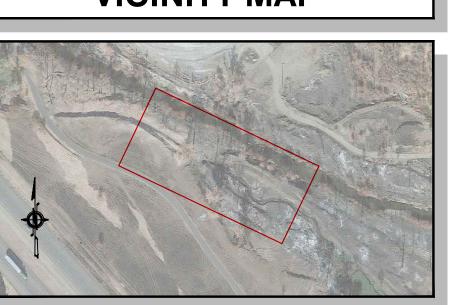
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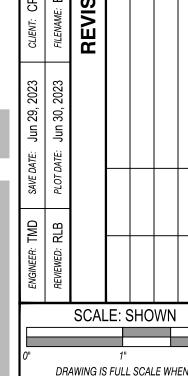
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NATIVE MATERIAL

- 7 BYPASS PIPE LANDING POOL, REFER TO DETAIL ON THIS
- (8) REMOVE GRAVEL FROM EX ACCESS ROAD TO LIMITS

VICINITY MAP





DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

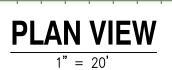
CULVERT OUTLET DEMOLITION

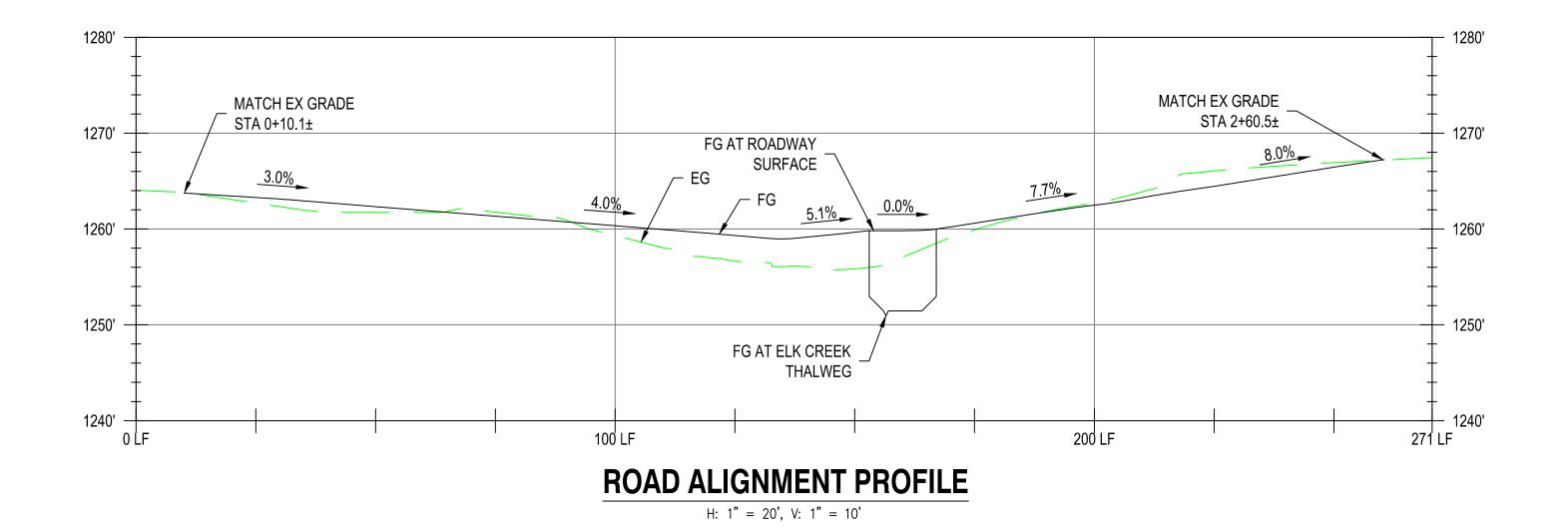
CULVERT DEMOLITION

TEMPORARY BYPASS PIPE

LANDING POOL TO BEAR CREEK, BUT NOT FROM BEAR CREEK INTO THE LANDING POOL BEAR CREEK WATER **BYPASS** SURFACE ELEVATION LANDING

PLUNGE POOL SIZING DETAIL











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GENERAL NOTES

- 1. LOCATION OF EX UTILITIES AND STRUCTURES ARE FROM INFORMATION AVAILABLE AT THE TIME OF DESIGN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY THE CITY AND UNDERGROUND SERVICES ALERT 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXISTING UTILITY LOCATIONS.
- 2. ALL TREES, STRUCTURES, UTILITIES, EQUIPMENT, AND ALL OTHER ITEMS NOT INDICATED TO BE DISCONNECTED AND/OR REMOVED SHALL REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED.

KEY NOTES

- 1 INSTALL PRECAST CONC CULVERT WITH WINGWALLS, REFER TO DETAILS ON DRAWINGS D01, D02, & D04.
- 2 GRADE ALONG NEW ELK CREEK ALIGNMENT ACCORDING TO PROFILE AND SECTIONS SHOWN ON DRAWING C03, AND DETAILS ON DRAWING D02.
- PERFORM GRADING AND INSTALL ACCESS ROAD, REFER TO ACCESS ROAD PROFILE ON THIS DRAWING.
- 4 ADD AGGREGATE BASE ROCK TO THE EX ACCESS ROAD AS REQUIRED TO MEET THE SLOPE AND DEPTH REQUIREMENTS SHOWN IN DETAIL 6 ON DRAWING D02.
- 5 INSTALL STREAMBED MATERIAL TO DEPTH AND GEOMETRY SHOWN IN THIS DRAWING AND THE DETAILS IN DRAWINGS D01 AND D02, REFER TO SPECIFICATIONS FOR SELECTION AND GRADATION REQUIREMENTS.
- 6 INSTALL LOCALLY SOURCED QUARRIED STREAMBED BOULDER 14"-22" DIAMETER, REFER TO TYPICAL CHANNE SECTION AND SPECIFICATIONS. BOULDERS SHALL BE MACHINE PLACED AND EMBEDDED INTO STREAMBED MATERIAL. END DUMPING IS NOT ALLOWED.
- CLEAN NATIVE MATERIAL EXCAVATED FROM WITHIN THE PROJECT FOOTPRINT MAY BE USED AS FILL WITHIN THE EXISTING DEPRESSION AREA SHOWN. GRADE ALL PLACED MATERIAL TO BE UNIFORM AND NO HIGHER THAN ADJACENT AREAS.
- 8 UPON PROJECT COMPLETION AND ACCEPTED STREAMBED STABILIZATION, REMOVE CHECK DAM ALLOWING STREAM FLOWS TO SLOWLY ENTER THE NEWLY CONSTRUCTED PORTION OF ELK CREEK, TO MINIMIZE TURBIDITY.
- 9 UPON CHECK DAM REMOVAL, REMOVE BYPASS PIPE. FILL IN THE BYPASS PIPE LANDING POOL AND TRENCH LEFT FROM PIPE REMOVAL WITH NATIVE FILL ACQUIRED ONSITE. ALL FILL SHALL BE COMPACTED TO 92% IN 8" THICK MAX LOOSE LIFTS. COMPACTION IS BASED ON MAXIMUM DRY DENSITY PER ASTM D-698 (STANDARD PROCTOR). RESTORE ALL DISTURBED PORTIONS OF THE STREAM BANKS, STREAM BEDS, GRAVEL ROADWAY, AND OTHER AREAS TO EXISTING OR BETTER CONDITION.
- 10 INSTALL ROOT WADS IN STREAM BED AT THE APPROX LOCATIONS SHOWN. ROOT WADS TO BE OBTAINED FROM EXISTING TREES TO BE REMOVED OR LOCALLY SOURCED, REFER TO SPECS AND DETAIL 2 ON DRAWING D02.

VICINITY MAP



CLIENT: CPT	FILENAME: BCG-P-CIV, DWG	REVISIONS				
SAVE DATE: May 8, 2023	РLOT DATE: May 8, 2023					DESCRIPTION
						DATE
ENGINEER: TMD	REVIEWED: RLB					NO.
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OREGON
OREGON

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EXPIRES: 12/31/2023

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- 1250'

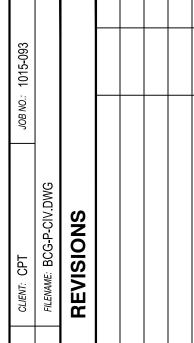
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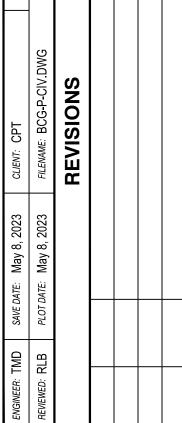
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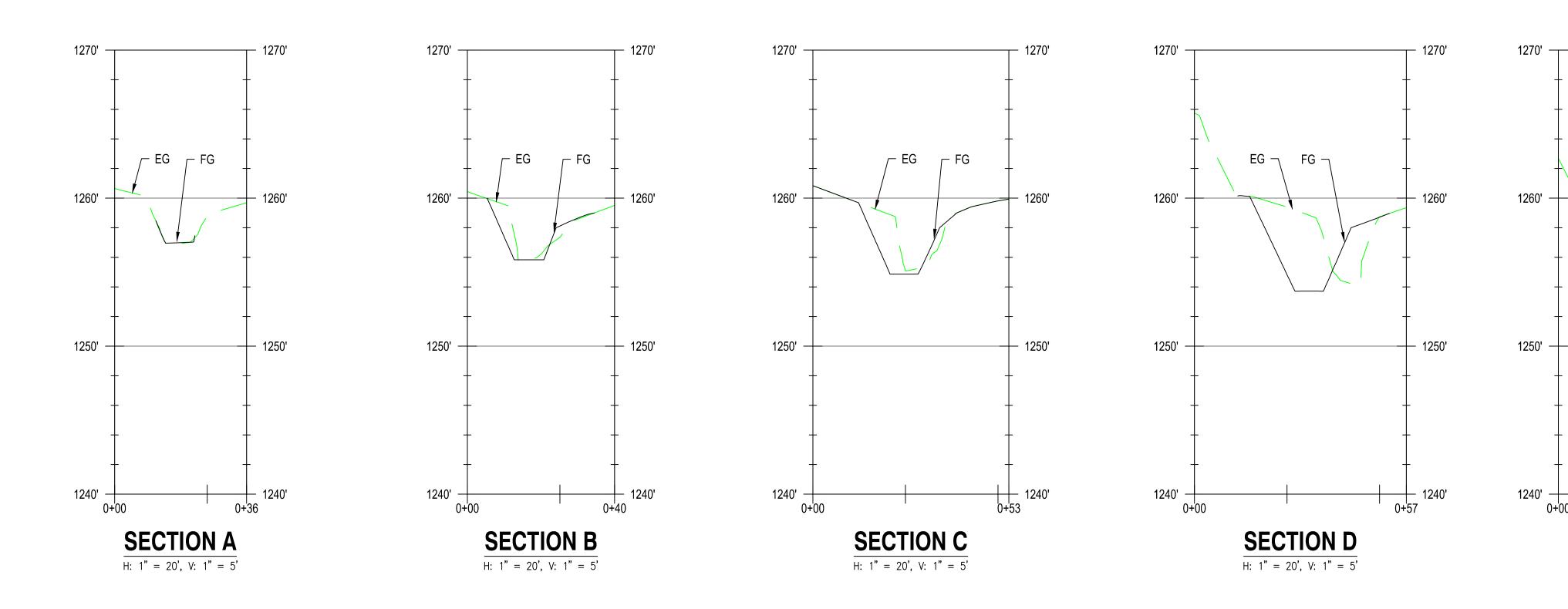


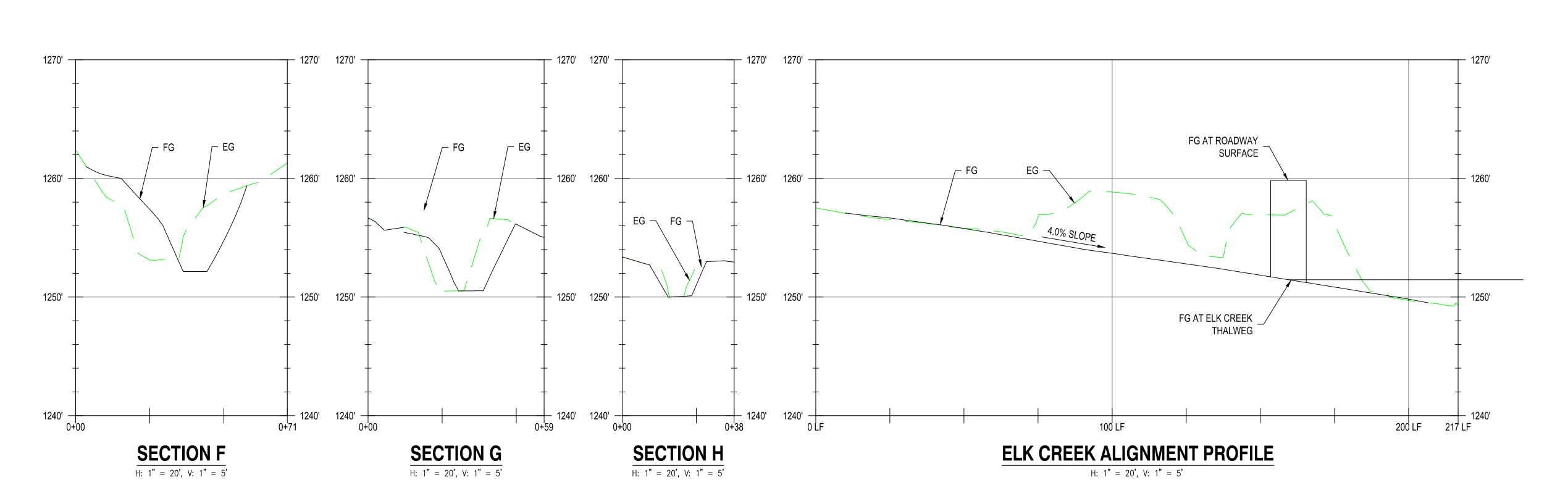


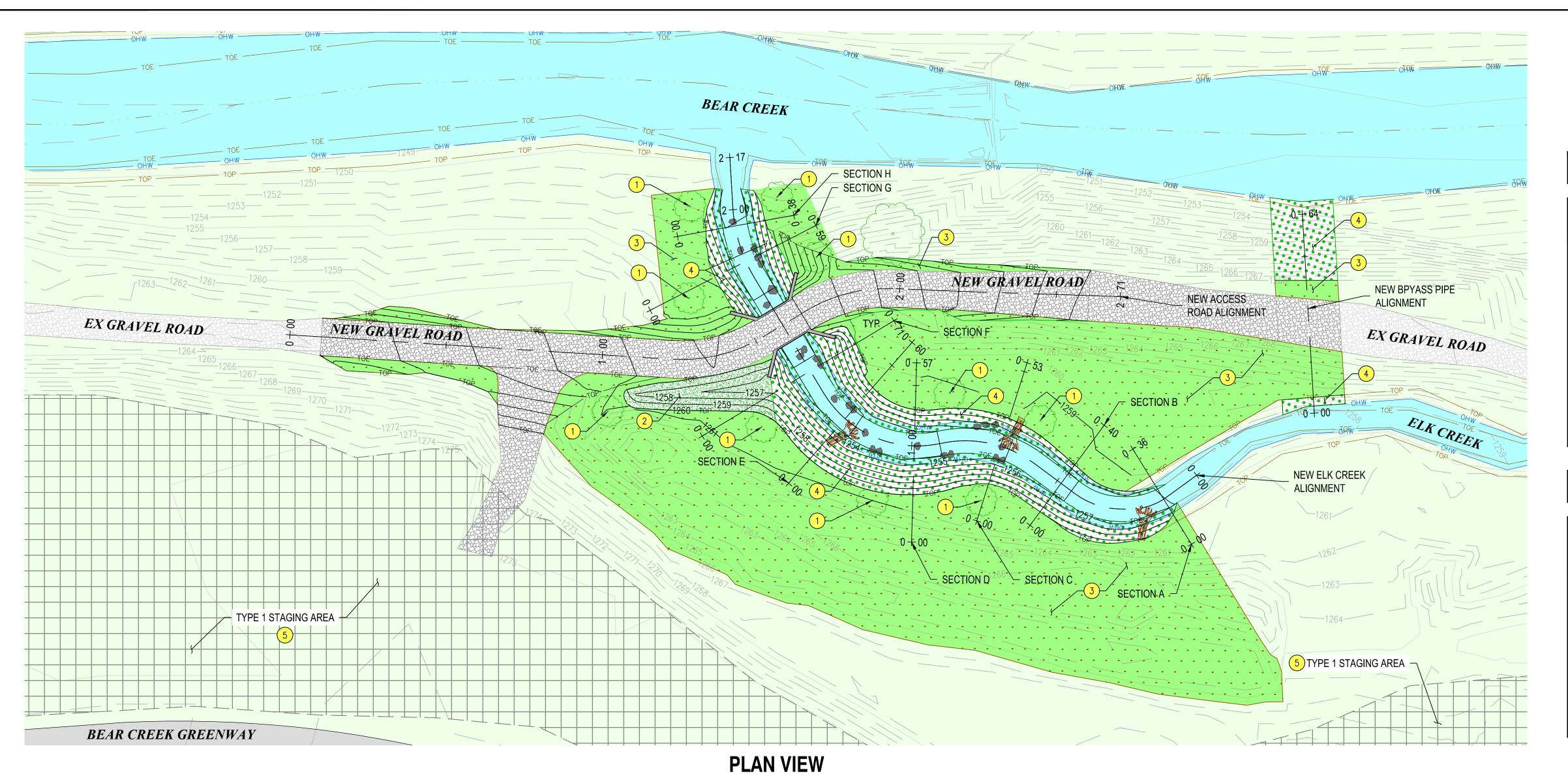




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GENERAL NOTES

- LOCATION OF EX UTILITIES AND STRUCTURES ARE FROM LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY THE CITY AND UNDERGROUND SERVICES ALERT 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXISTING UTILITY LOCATIONS.
- ALL TREES, STRUCTURES, UTILITIES, EQUIPMENT, AND ALL OTHER ITEMS NOT INDICATED TO BE DISCONNECTED AND/OR REMOVED SHALL REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED.
- LOOSEN ALL SOILS OUTSIDE OF PERMANENT ACCESS ROADS TO RESTORE SOIL PERMEABILITY. SEED ALL DISTURBED EARTH AREAS, INCLUDING PLANTED AREAS WITH NATIVE SEED MIX, REFER TO GENERAL NOTES SHEET, AND PLANTING DETAILS AND NOTES ON SHEET

KEY NOTES

- 1 PLANT OREGON ASH TREES IN APPROX. LOCATIONS
- 2 PLANT SCOURING RUSH AND SEED WITH NATIVE SEED MIX WITHIN AREA SHOWN.
- 3 PLANT MIX OF SNOWBERRY, SWORD FERN, OREGON GRAPE, AND PACIFIC BLACKBERRY AND SEED WITH NATIVE SEED MIX WITHIN AREA SHOWN.
- 4) INSTALL ODOT TYPE E EROSION CONTROL MATTING AND PLANT LIVE STAKE WILLOW PLANTINGS AND SEED WITH NATIVE SEED MIX WITHIN AREA SHOWN.
- 5 SEED ALL STAGING AREAS AND ALL OTHER DISTURBED AREAS WITH NATIVE SEED MIX.



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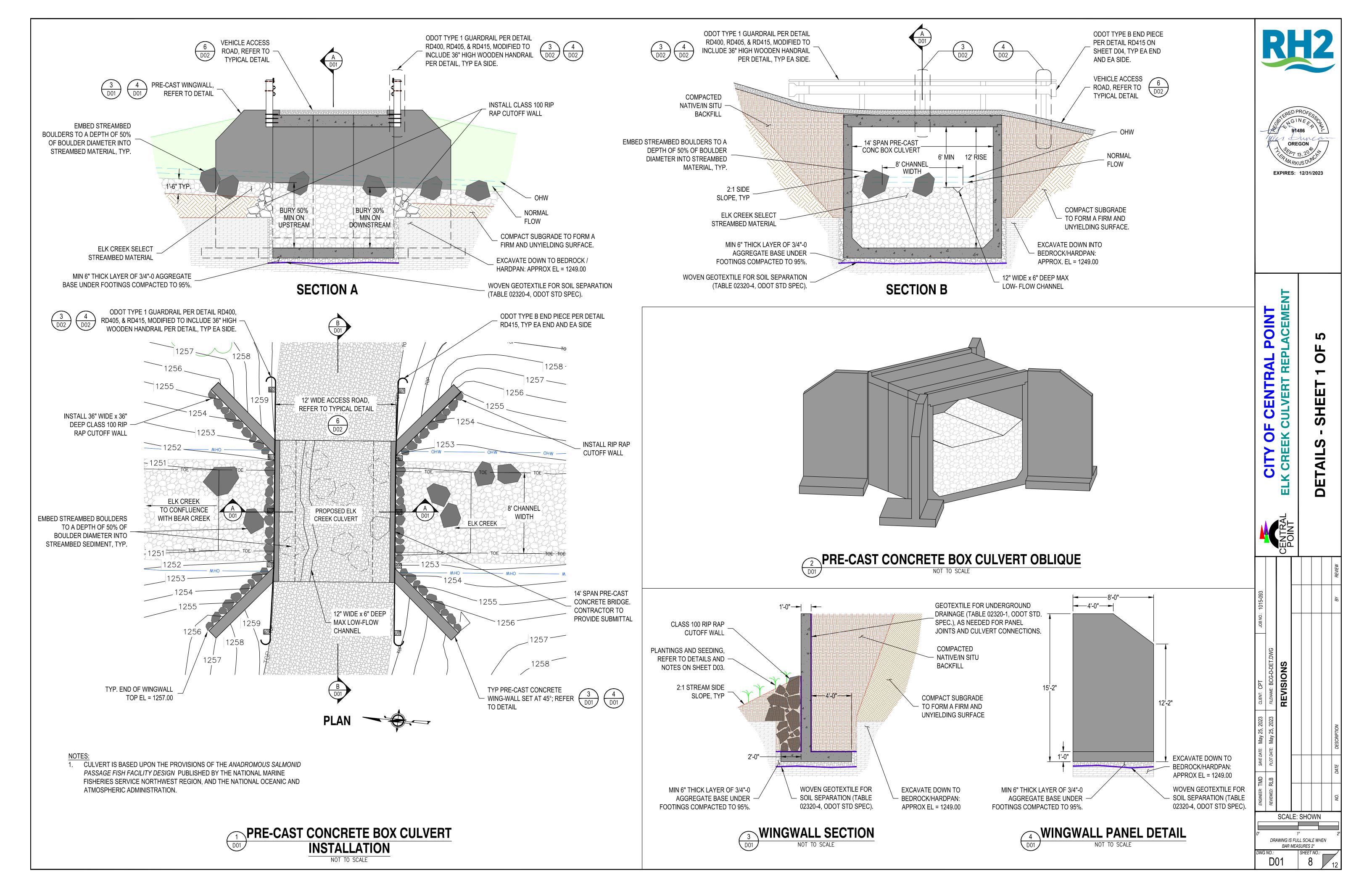
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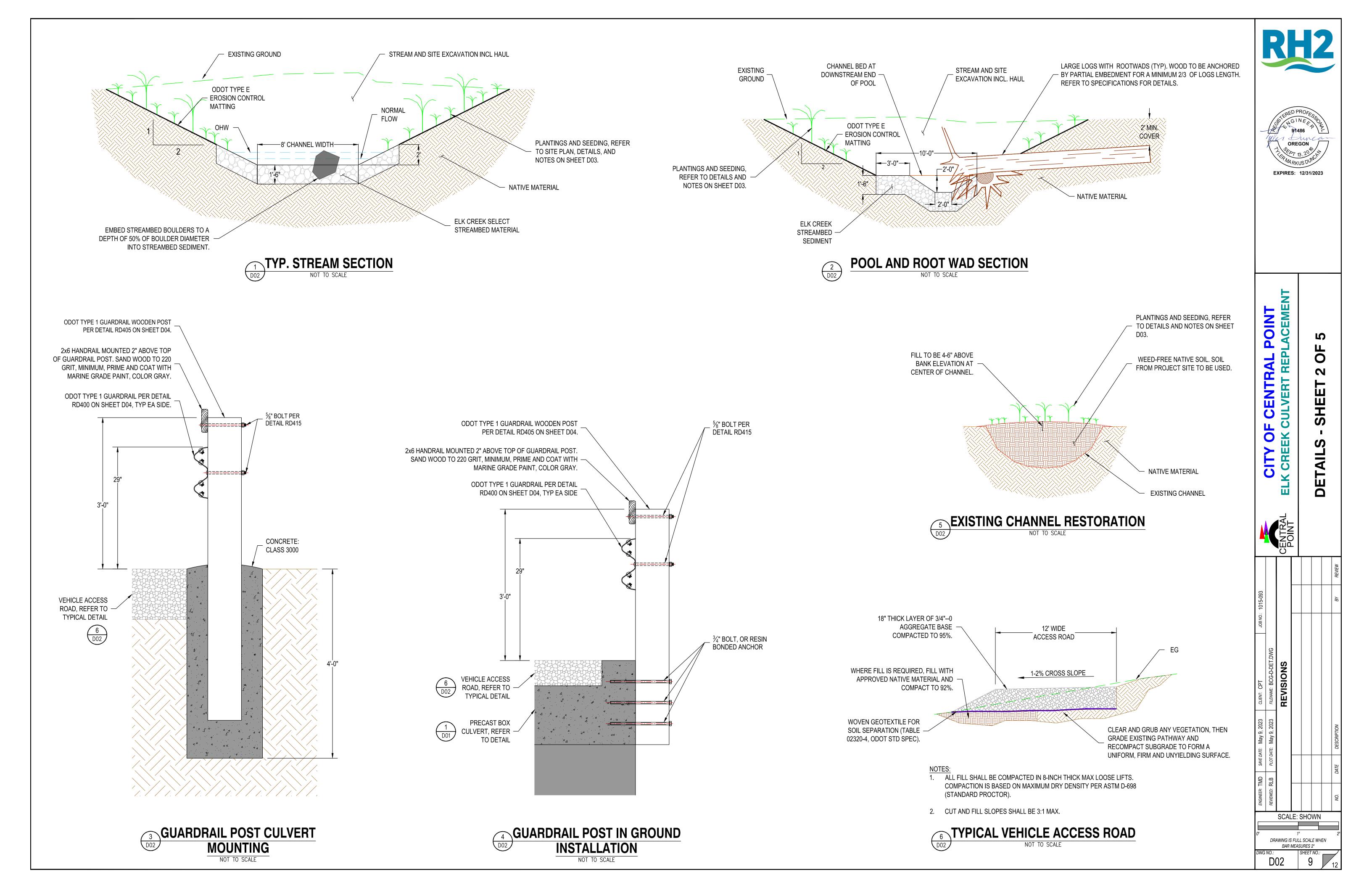
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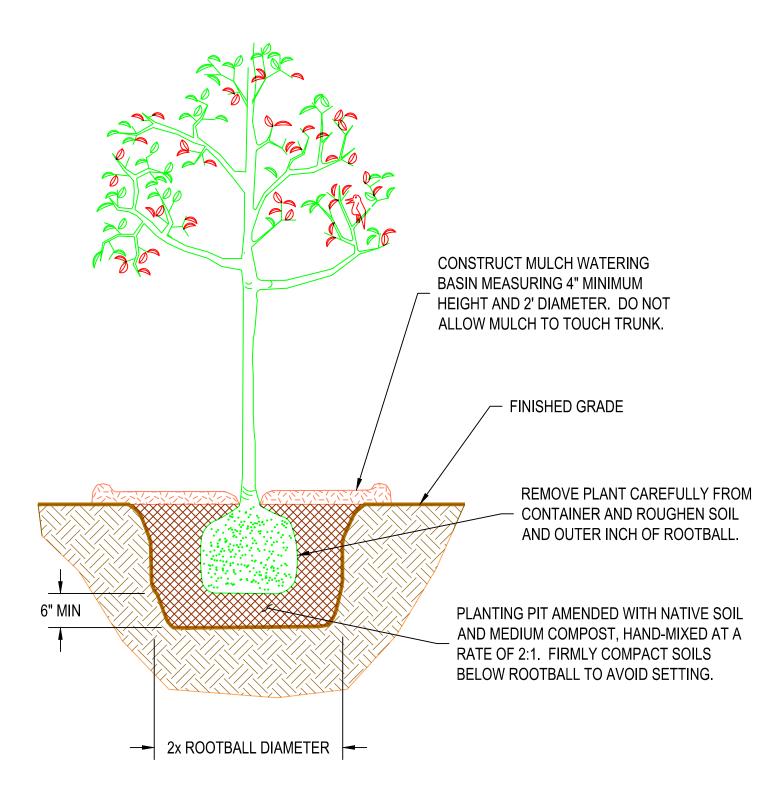
VICINITY MAP



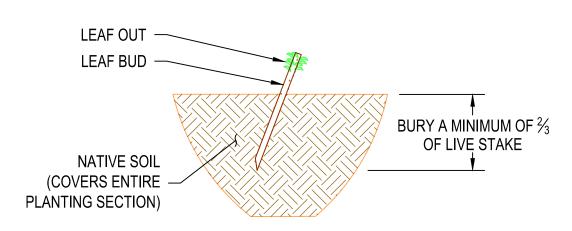
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DECIDUOUS TREE PLANTING DETAIL NOT TO SCALE





LIVE STAKE OR POLE PLANTING INSTRUCTIONS

- 1. LIVE STAKES SHALL BE ¾ TO 1½ INCHES IN DIAMETER OVER THEIR ENTIRE LENGTH AND A MINIMUM OF 3 FEET LONG. LIVE POLES SHALL BE 1-4 INCHES IN DIAMETER OVER THEIR ENTIRE LENGTH AND 3-5 FEET LONG. STAKES SHALL BE PROVIDED WITH THE END TO BE PLANTED ANGLED AS SHOWN IN THE DETAIL.
- 2. LIVE STAKES AND POLES SHALL BE INSTALLED BY HAND. A PILOT HOLE SHALL BE DUG PRIOR TO INSTALLATION (USE SIMILARLY SIZED REBAR, T-BAR, OR HAND AUGER FOR MAKING PILOT HOLES).
- 3. LIVE STAKES ARE HIGHLY PERISHABLE AND MUST BE STORED IN SHADED, COOL, MOIST CONDITIONS PRIOR TO INSTALLATION. STAKES STORED SHALL BE COVERED IN BURLAP AND WETTED DAILY. STORE STAKES IN THIS MANNER FOR NO LONGER THAN TWO DAYS.
- 4. INSTALL STAKES SO THAT A MINIMUM OF $\frac{2}{3}$ OF THEIR LENGTH IS BURIED IN SOIL. BACKFILL PIT PER DETAILS THIS PAGE AND PACK SOIL AROUND STAKE FOLLOWING INSTALLATION.

PLANTING AND SEEDING NOTES

GENERAL PLANTING NOTES:

ALL AREAS DISTURBED BY CONSTRUCTION, INCLUDING THOSE SPECIFIC PLANTING AREAS SHOWN, SHALL BE REVEGETATED. PLANTING WILL OCCUR DURING THE IN-WATER WORK WINDOW FROM JUNE 15 TO AUGUST 31 AFTER CONSTRUCTION IS COMPLETE. PLANTING WILL BE DONE BY HAND. SEEDING WILL BE ACCOMPLISHED BY BROADCASTING OR HYDROSEEDING WHEN SOIL MOISTURE IS AVAILABLE (FALL). ANY DEVIATION FROM THE PLANTING PLAN MUST BE APPROVED BY THE CITY AND/OR CITY'S REPRESENTATIVE.

ALL PLANTING SHALL BE COMPLETED BY A LOCAL, LANDSCAPE CONTRACTOR WITH AT LEAST 5 YEARS OF EXPERIENCE IN NATIVE PLANT AND SENSITIVE AREAS RESTORATION. INVASIVE SPECIES REMOVAL AND TREATMENT SHALL ALSO BE COMPLETED BY A LANDSCAPE CONTRACTOR LICENSED AND EXPERIENCED IN THE LATEST TREATMENT METHODOLOGY.

THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING A PRE-PLANTING MEETING, SUCCESSFUL PLANT INSTALLATION, CITY ACCEPTANCE POST-PLANTING, CREATING AN AS-BUILT DRAWING SHOWING PLANT LOCATIONS FOLLOWING INSTALLATION, AND CARING FOR THE SITE FOR A 12-MONTH PLANT ESTABLISHMENT PERIOD. FOLLOWING THE PLANT ESTABLISHMENT PERIOD, THE CITY WILL ASSUME CARE OF THE SITE.

REVEGETATION SEQUENCING:

REVEGETATION ACTIVITIES SHALL OCCUR PER THE FOLLOWING GENERAL SEQUENCE:

- 1. <u>PRE-PLANTING MEETING</u>: PRIOR TO PLANT INSTALLATION, THE LANDSCAPE CONTRACTOR, CITY AND/OR CITY'S REPRESENTATIVE SHALL MEET ON-SITE TO ENSURE THE PLANS AND SPECIFICATIONS ARE REVIEWED, AND ALL PARTIES UNDERSTAND THE REQUIREMENTS OF LANDSCAPE ACTIVITIES. PLANT LOCATION PLACEMENT SHALL BE COMPLETED WITH THE ON-SITE DIRECTION OF THE CITY AND/OR CITY'S REPRESENTATIVE.
- 2. <u>INSTALLATION</u>: COMPLETE PLANT INSTALLATION BY HAND IN ACCORDANCE WITH THE APPROVED PLANTING PLAN AND DETAILS.

OREGON ASH (*Fraxinus latifolia*) TREES WILL BE PLANTED ALONG THE BANKS ABOVE THE OHW. ALL TREES INSTALLED SHALL RECEIVE A 4-INCH HIGH BY 2-FOOT DIAMETER, HAND-PACKED MULCH WATERING BASIN.

WILLOW STAKES WILL BE PLANTED ON BANKS OF RESTORED CHANNEL, AS SHOWN ON THE PLANS.

SCOURING RUSH (*Equisetum hyemale*) SHALL BE PLANTED WITHIN THE LOW-LYING AREAS SHOWN ON THE

PLANS.

UPLAND AREAS WILL BE PLANTED WITH A MIX OF SNOWBERRY (*Symphoricarpos albus*), SWORD FERN (Polystichum munitum), OREGON GRAPE (*Mahonia aquifolium*), AND PACIFIC BLACKBERRY (*Rubus ursinus*), AS SHOWN ON THE PLANS.

THE UNDERSTORY AND DISTURBED SOIL AREAS WILL BE BROADCAST SEEDED WITH A NATIVE NORTHWEST GRASS SEED MIX. THE SEED MIX WILL BE APPLIED AT A RATE OF 15 POUNDS PER ACRE (1,406,000 SEEDS PER POUND; SPACING OF 161 SEEDS PER SQUARE FOOT) OR THE RECOMMENDATIONS OF THE SEED DISTRIBUTOR. REMOVE NOXIOUS WEEDS PRIOR TO SEEDING. MAINTENANCE OF NOXIOUS WEEDS FOR FIRST THREE YEARS AFTER RESTORATION WILL BE COMPLETED BY THE CITY.

- 3. <u>CLEAN-UP</u>: THE LANDSCAPE CONTRACTOR SHALL DISPOSE OF REMOVED PLANTS AND PLANT PARTS, CONTAINERS, BURLAP, ETC. ASSOCIATED WITH PLANTING ACTIVITIES. THESE MATERIALS SHALL BE DISPOSED OF OFF-SITE.
- 4. <u>CONSTRUCTION</u> <u>INSPECTION</u>: UPON COMPLETION OF INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL REQUEST AN INSPECTION FROM THE CITY. INSPECTIONS WILL BE CONDUCTED TO ENSURE INSTALLATION COMPLIES WITH THE APPROVED PLANTING PLAN AND DETAILS. THE CONTRACTOR WILL BE REQUIRED TO CORRECT ANY DERIVATIONS PRIOR TO CITY ACCEPTANCE.

IRRIGATION:

NEBRASKA SEDGE

THE LANDSCAPE CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION FOR THE PROPOSED PLANTING AREA. TEMPORARY IRRIGATION MAY BE SUPPLIED USING A WATER TRUCK, HOSE, OR ABOVEGROUND IRRIGATION SYSTEM. THE CONTRACTOR WILL NEED TO ACCESS WATER VIA THE NEAREST HYDRANT, AND SECURE THE APPROPRIATE HYDRANT PERMIT AND A HYDRANT METER FROM THE CITY FOR THIS PURPOSE. TEMPORARY IRRIGATION SHALL PROVIDE HEAD-TO-HEAD COVERAGE OF THE PROPOSED PLANTING AREA. ALL TREES AND SHRUBS IN THIS ZONE WILL RECEIVE TEMPORARY IRRIGATION DURING THE DRY SEASON AND AS NECESSARY FOR SUCCESSFUL PLANT ESTABLISHMENT. TREES SHALL RECEIVE A MINIMUM OF 2 INCHES OF WATER PER WEEK. THE LANDSCAPE CONTRACTOR SHALL MODIFY THE DURATION AND FREQUENCY OF SUPPLEMENTAL WATERING, AS NEEDED. THE LANDSCAPE CONTRACTOR SHALL REMOVE TEMPORARY IRRIGATION SYSTEM COMPONENTS AND/OR HOSING FOLLOWING PLANT ESTABLISHMENT PERIOD.

	PLANTINGS	
TYPE	QUANTITY	SIZE / DENSITY
OREGON ASH (Fraxinus latifolia)	10	5 GALLON/MIN 12 FT SEPARATION
WILLOW STAKES (VARIOUS SPECIES)	3,340 SQ. FT.	1 PER 6 SQ. FT.
SCOURING RUSH (Equisetum hyemale)	515 SQ. FT.	1 GAL @ 1 PER 6 SQ. FT.
SNOWBERRY (Symphoricarpos albus)	17,400 SQ. FT.	1 GAL @ 1 PER 24 SQ. FT.
SWORD FERN (Polystichum munitum)	17,400 SQ. FT.	1 GAL @ 1 PER 24 SQ. FT.
OREGON GRAPE (Mahonia aquifolium)	17,400 SQ. FT.	1 GAL @ 1 PER 24 SQ. FT.
PACIFIC BLACKBERRY (Rubus ursinus)	17,400 SQ. FT.	1 GAL @ 1 PER 24 SQ. FT.
SEED MIX	0.49 ACRES*	15 LBS PER ACRE
REA QUANTITY DOES NOT INCL	UDE STAGING AREAS NOR OTHER DISTU	RBED AREAS.
NORTH	WEST GRASS	SEED MIX
COMMON NAME	SCIENTIFIC NAME	INDICATOR
TUFTED HAIRGRASS	DESCHAMPSIA CESPITOSA	FACW
SLENDER HAIRGRASS	DESCHAMPSIA ELONGATA	FACW
MEADOW BARLEY	HORDEUM BRACHYANTHERUM	FACW
SPIKE BENTGRASS	AGROSTIS EXERATA	FACW
COMMON RUSH	JUNCUS EFFUSUS	FACW

CAREX NEBRASCENSIS

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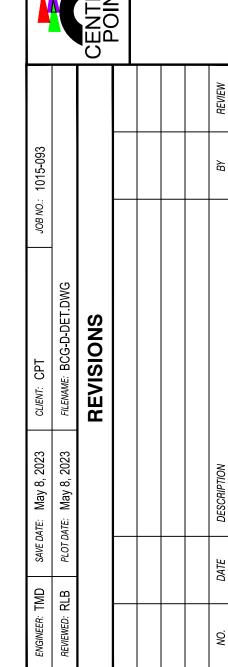


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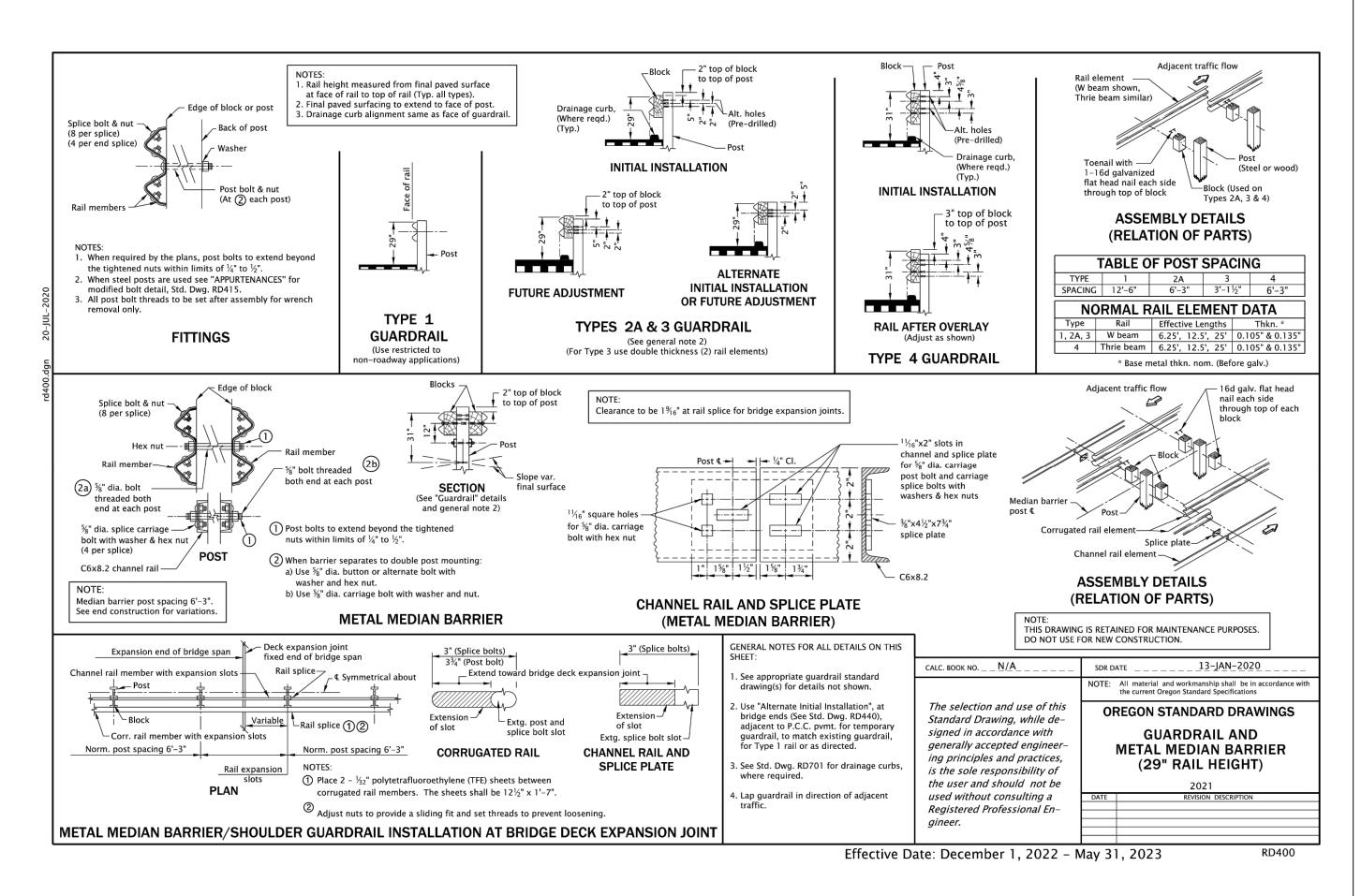
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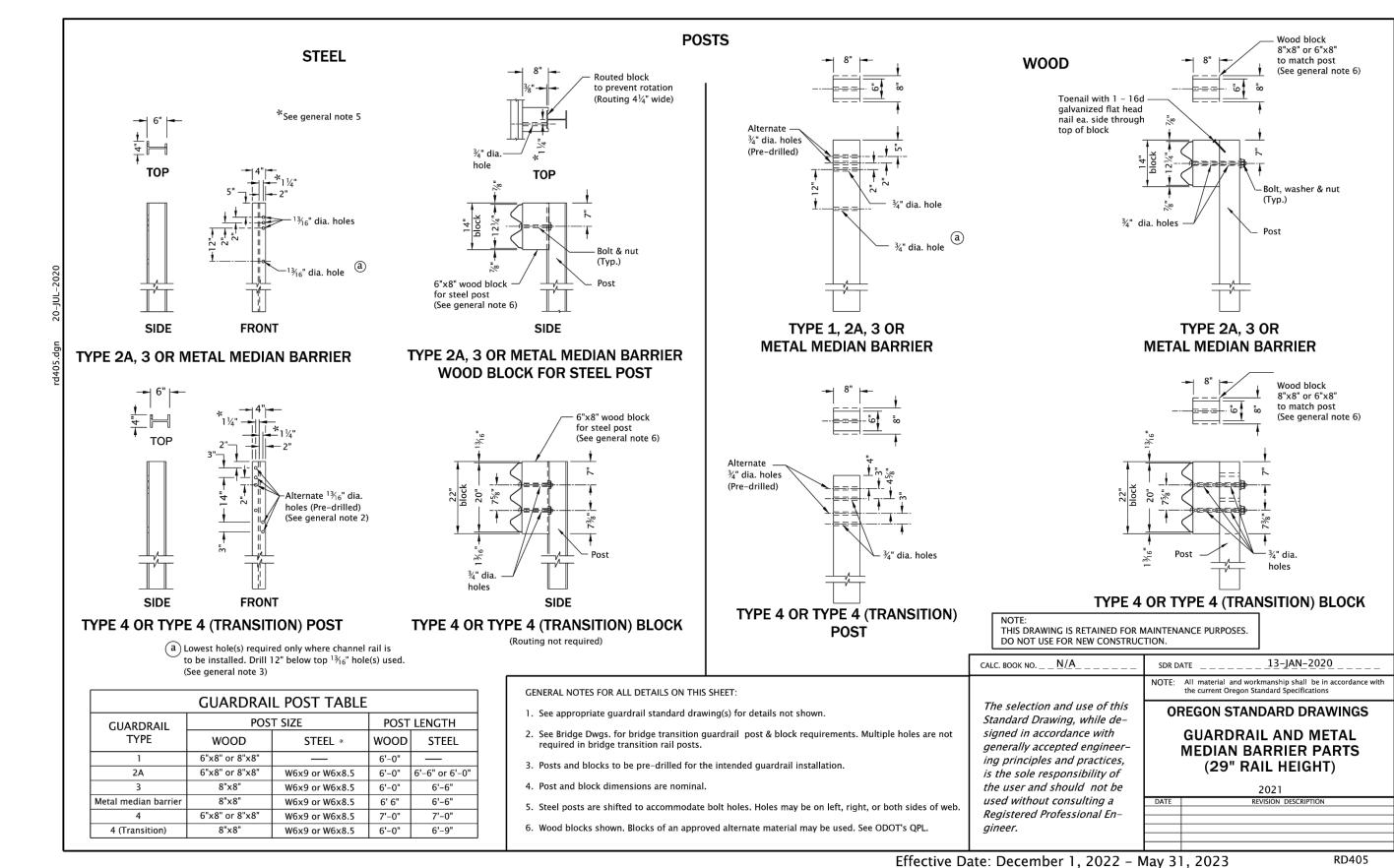
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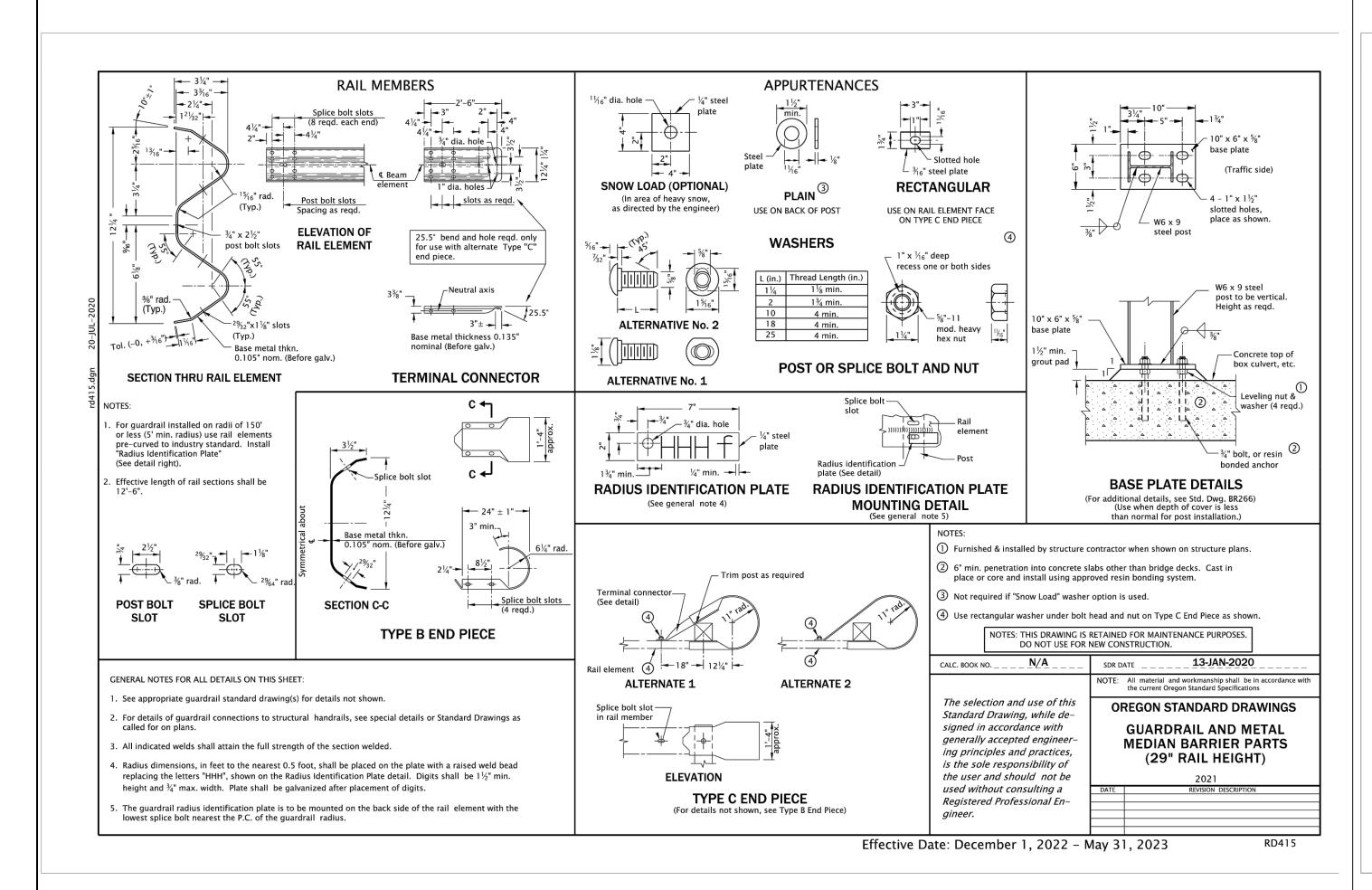


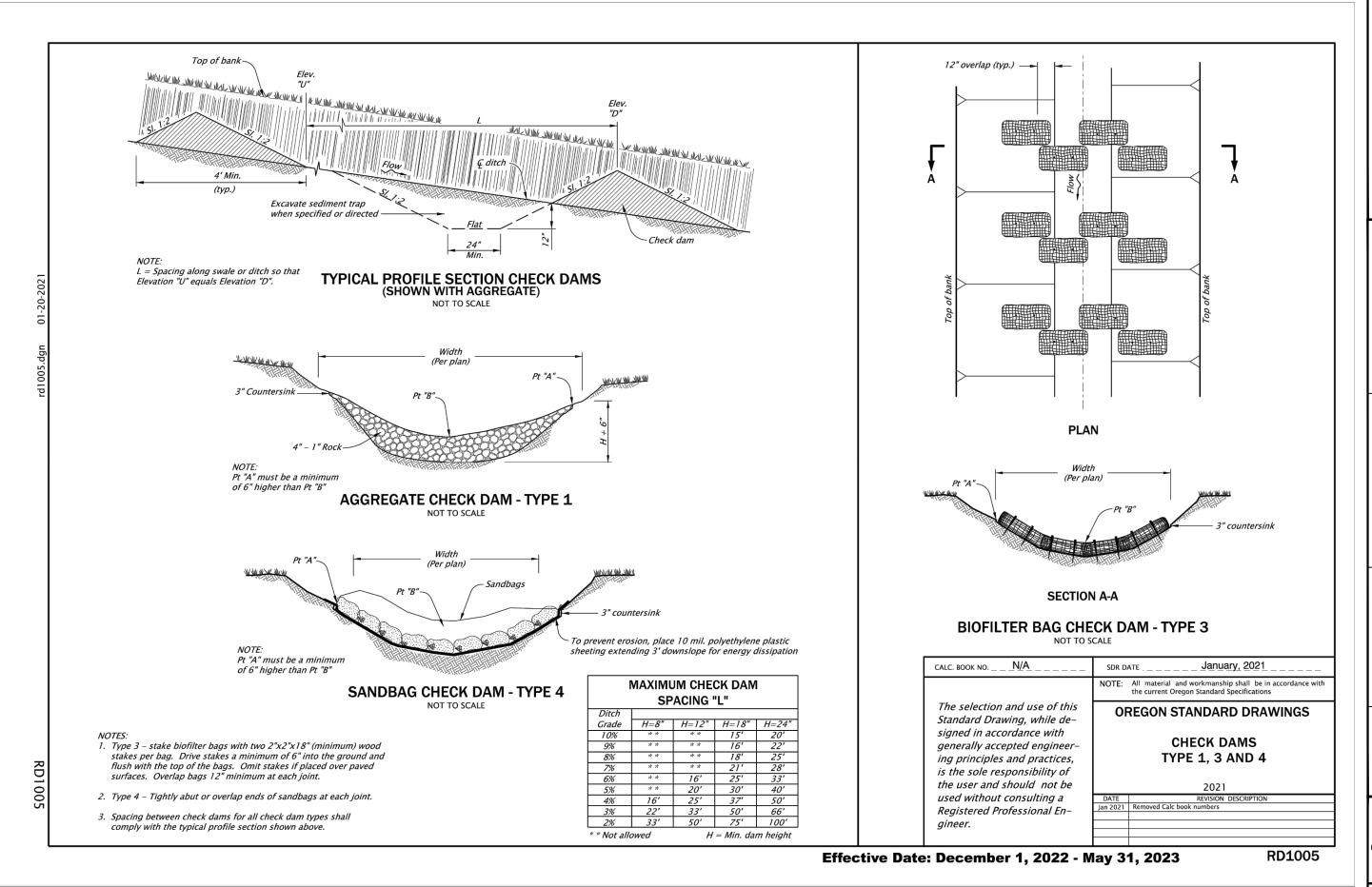
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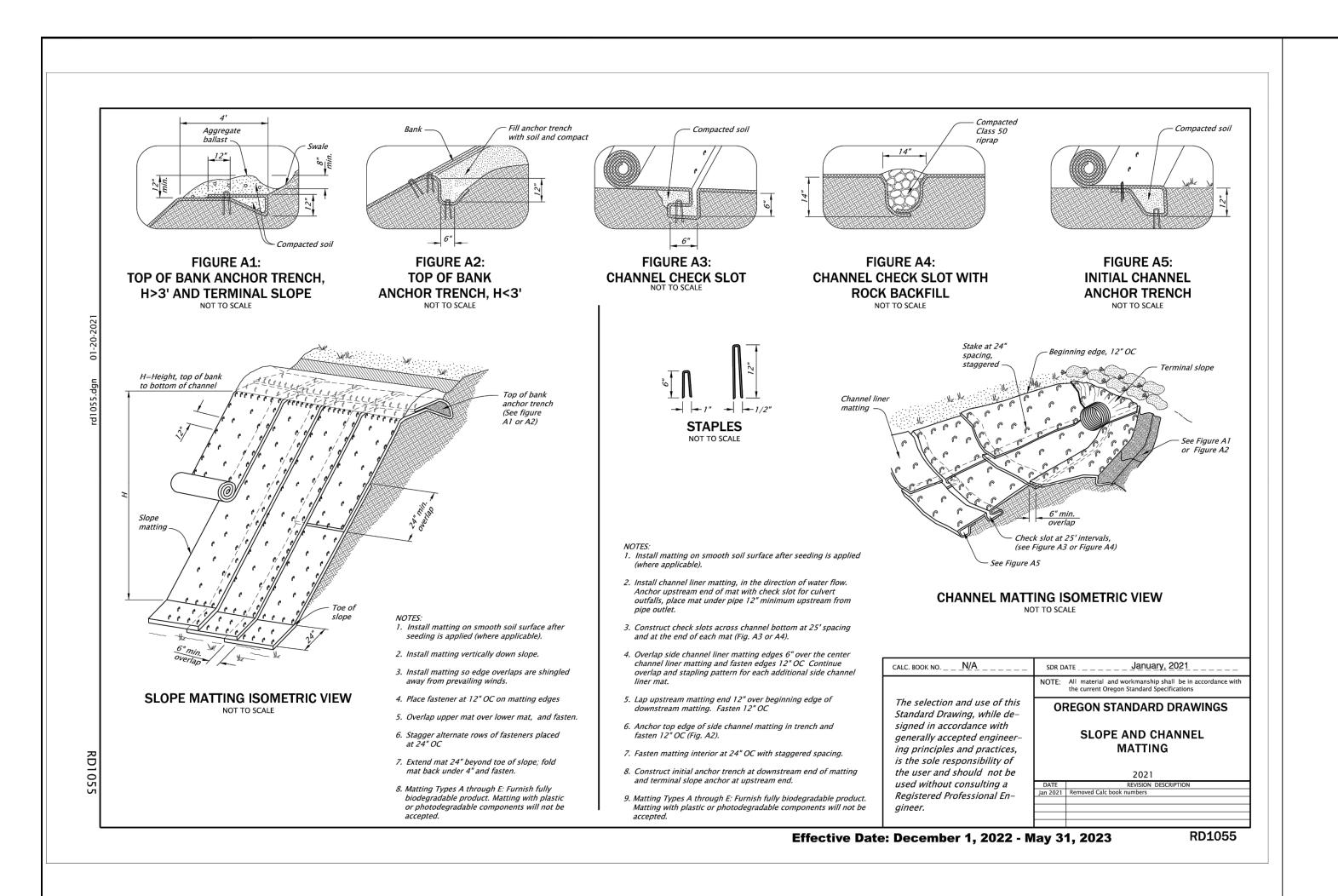
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EK CULVERT REPLACEMENT CITY OF K CREEK

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