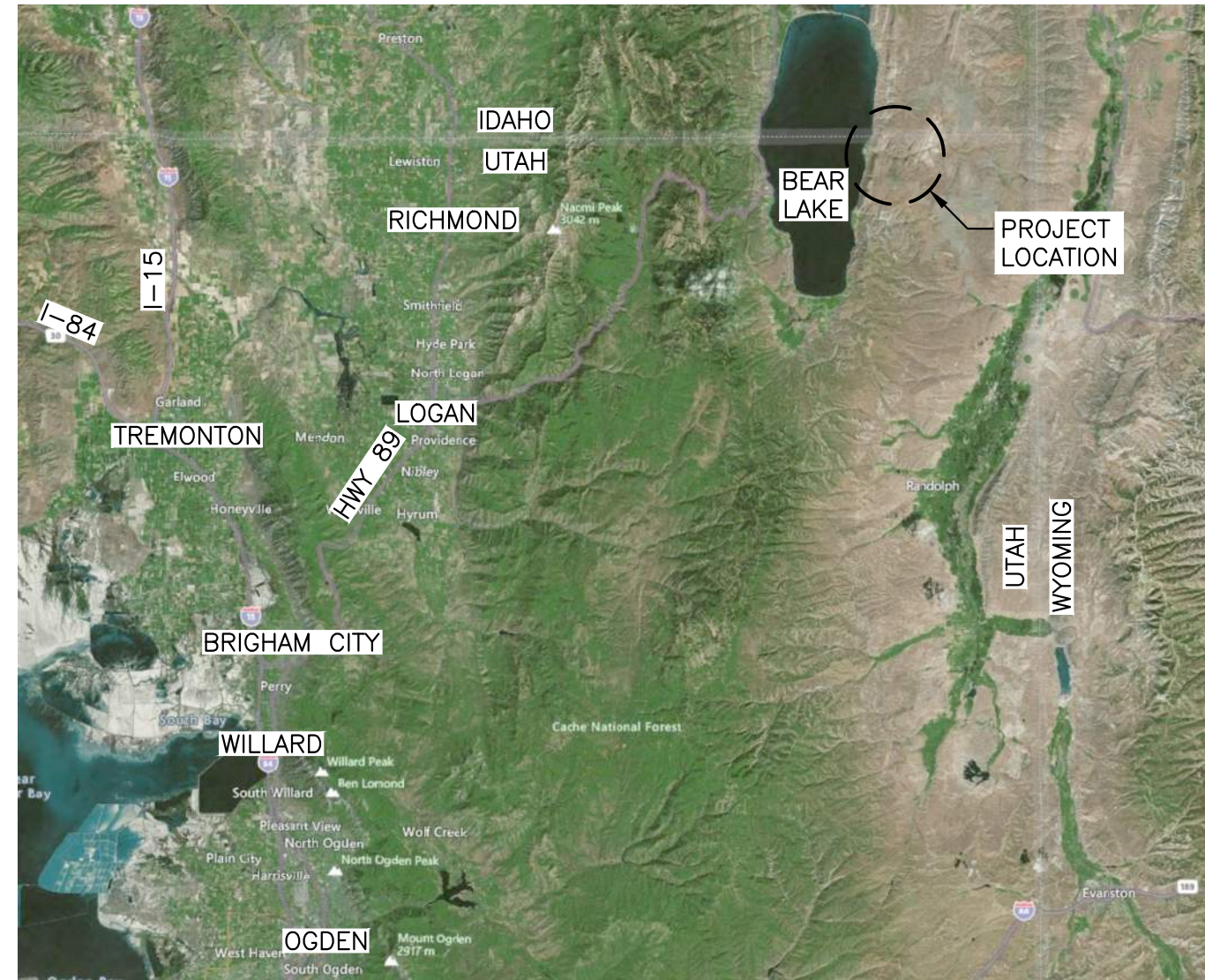


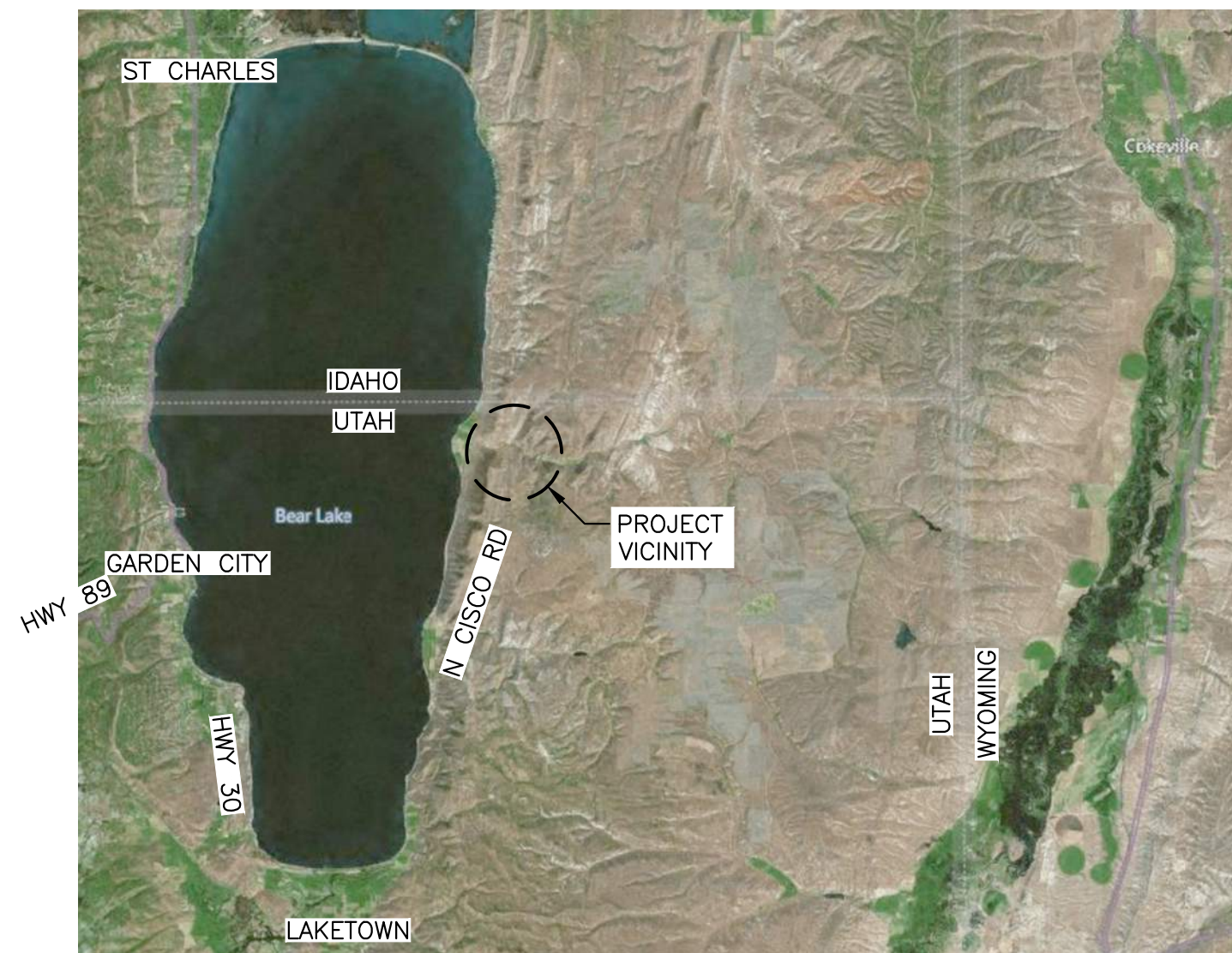
TROUT UNLIMITED

NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT

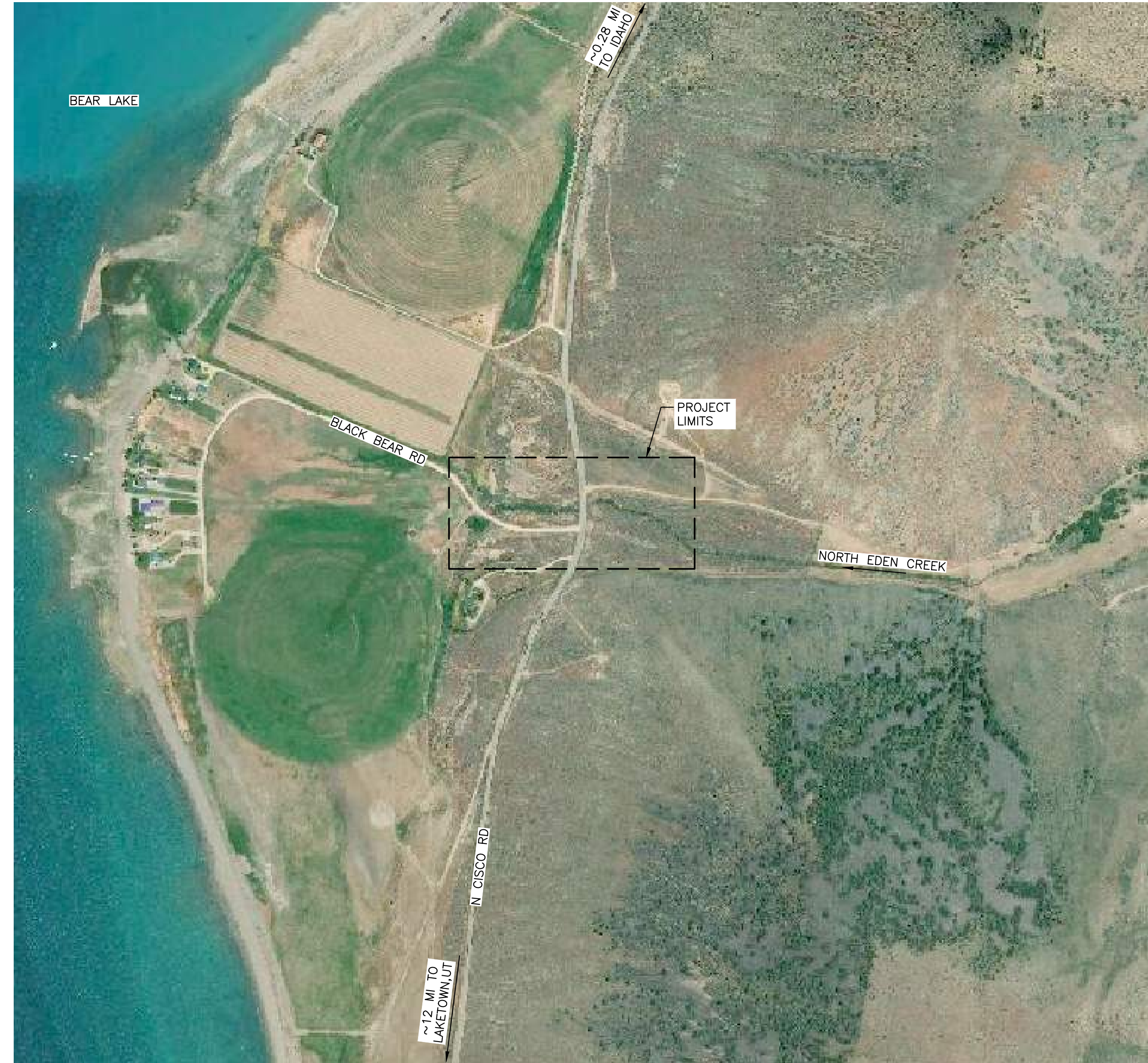
ISSUED FOR CONSTRUCTION



PROJECT LOCATION MAP
SCALE: NTS



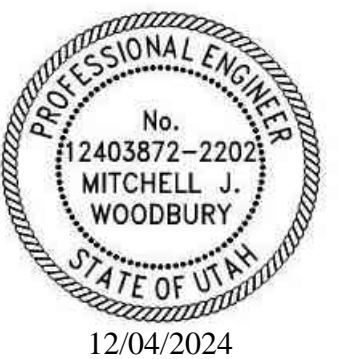
PROJECT VICINITY MAP
SCALE: NTS



PROJECT LIMITS
SECTION 14, TOWNSHIP 14N, RANGE 6E
RICH COUNTY, UTAH
LATITUDE: 41°59'10.43"N, LONGITUDE: 111°15'14.87"W



| DRAWING INDEX | |
|---------------|--|
| DRAWING NO. | DESCRIPTION |
| GENERAL | |
| G001 | LOCATION MAP, VICINITY MAP, PROJECT LIMITS AND DRAWING INDEX |
| G002 | STANDARD ABBREVIATIONS AND SYMBOLS |
| G003 | EXISTING SITE PLAN AND SURVEY CONTROL |
| ESC | |
| EC001 | STANDARD EROSION SEDIMENT CONTROL DETAILS |
| EC002 | EROSION AND SEDIMENT CONTROL PLAN |
| DEMOLITION | |
| D001 | DEMOLITION PLAN |
| CIVIL | |
| GC001 | CIVIL STANDARD DETAILS |
| GC002 | CIVIL STANDARD DETAILS 2 |
| C001 | OVERALL SITE PLAN |
| C002 | EXCAVATION, DEWATERING, AND TEMPORARY SHOOFLY PLAN |
| C003 | TEMP SHOOFLY PLAN AND PROFILE |
| C004 | TEMP SHOOFLY SECTIONS |
| C101 | STREAM GRADING PLAN AND PROFILE 1 |
| C102 | STREAM GRADING PLAN AND PROFILE 2 |
| C103 | STREAM GRADING SECTIONS |
| C104 | STREAM GRADING SECTIONS 2 |
| C110 | CULVERT GRADING PLAN, PROFILE AND TYPICAL SECTION |
| C111 | NORTH CISCO ROADWAY REPAIR |
| STRUCTURAL | |
| S100 | CULVERT FOUNDATION PLAN, ELEVATION AND SECTION |



| REV | DATE | BY | DESCRIPTION |
|-----|----------|-----|---|
| F | 12/4/24 | MJW | REISSUED FOR CONSTRUCTION |
| E | 11/8/24 | MJW | ISSUED FOR CONSTRUCTION |
| D | 12/22/23 | MJW | 60% DRAFT SUBMITTAL |
| C | 08/13/23 | MJW | 30% DESIGN REVIEW SUBMITTAL |
| B | 02/11/22 | MJW | CONCEPTUAL DESIGN ALTERNATIVES RE-SUBMITTAL |
| A | 11/15/21 | MJW | CONCEPTUAL DESIGN ALTERNATIVES SUBMITTAL |

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



| |
|---|
| TROUT UNLIMITED NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT LOCATION MAP, VICINITY MAP, PROJECT LIMITS AND DRAWING INDEX |
|---|

| |
|-----------------------|
| DESIGNED J. WOODBURY |
| DRAWN J. LAHMOM |
| CHECKED N. KRAUS |
| ISSUED DATE 12/4/2024 |



| |
|-----------------|
| DRAWING |
| G001 |
| SCALE: AS NOTED |

| HATCH SYMBOLS | |
|---------------|--|
| | ROCK, TYPE AS NOTED (PLAN/SECTION) |
| | BED ROCK |
| | EXISTING GRADE (SECTION) |
| | NEW SOIL (SECTION) |
| | CONCRETE (SECTION/PLAN) |
| | SAND, GROUT (PLAN/SECTION) |
| | STEEL (SECTION) |
| | GRATING (PLAN) |
| | MASONRY (PLAN) |
| | WOOD, SIZE/TYPE AS NOTED (PLAN) |
| | WOOD, SIZE/TYPE AS NOTED (SECTION) |
| | RIP RAP (PLAN/SECTION) |
| | ASPHALT CONCRETE PAVEMENT SURFACE (PLAN/SECTION) |
| | GRASS/VEGETATION (PLAN) |

| SITE PLAN LINETYPES | |
|---------------------|--------------------------|
| | FENCE LINE |
| | OVERHEAD POWER |
| | MAJOR CONTOUR |
| | MINOR CONTOUR |
| | DITCH CENTERLINE |
| | TOE OF SLOPE |
| | TOP OF BANK |
| | SANITARY SEWER |
| | STORM DRAIN |
| | EDGE OF PAVEMENT |
| | EDGE OF GRAVEL |
| | EDGE OF WATER |
| | WATTLE |
| | SILT FENCE |
| | CONSTRUCTION FENCE |
| | GAS LINE |
| | ORDINARY HIGH WATER MARK |

SHEET SYMBOLS

PLAN
SCALE: 1/2"= 1'-0"

SECTION IDENTIFICATION

(1) SECTION CUT ON DRAWING C102:

(2) ON DRAWING C103 THIS SECTION IS IDENTIFIED AS:

SECTION VIEW
SCALE: 1/2"= 1'-0"

DETAIL IDENTIFICATION

(1) DETAIL CALL-OUT ON DRAWING C102:

(2) ON DRAWING C103 THIS SECTION IS IDENTIFIED AS:

DETAIL
SCALE: 1/2"= 1'-0"

DETAIL
SCALE: 1/2"= 1'-0"

*NOTE: IF PLAN AND SECTION (OR DETAIL CALL-OUT AND DETAIL) ARE SHOWN ON SAME DRAWING, DRAWING NUMBER IS REPLACED BY A LINE.

STANDARD DETAIL IDENTIFICATION

(1) DETAIL CALL-OUT ON PLAN OR SECTION:

(2) ON DETAIL DRAWINGS, IDENTIFIED AS:

DETAIL

ELEVATION/IMAGE IDENTIFICATION

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|----------------------|-----|---------------------|-----|---|-------|-------------|-------|-------------------|-------|-------------------|------|-------------------|------|-----------------|------|-----------------------|------|-----------------------------------|------|--------------------------|------|-------------------|------|--------------------------|------|----------------------|------|------------------------|------|----------------------|------|------------|-------|--------------------------------|-------|-----------------------|-------|--|------|----------|-----|-------------|-----|--------|------|---------|----|---------------|----|-----------|----|------------|
| A/C | AIR CONDITIONING | BE | BOTH ENDS, BELL END | BF | BOTH FACES, BOTTOM FACE, BLIND FLANGE, BOARD FEET | BITUM | BITUMINOUS | BL | BASE LINE | BLDG | BUILDING | BLKG | BLOCKING | BM | BENCHMARK, BEAM | BOC | BACK OF CURB | BOT | BOTTOM | BP | BASE PLATE | BRG | BEARING | BS | BOTH SIDES | BTU | BRITISH THERMAL UNIT | BTW | BETWEEN | BV | BALL VALVE | BW | BOTH WAYS | | | | | | | | | | | | | | | | | | | | |
| C TO C | CENTER TO CENTER | C&G | CURB & GUTTER | C | CHANNEL SHAPE, CENTIGRADE, CONDUIT | CB | CATCH BASIN | CCW | COUNTER CLOCKWISE | CF | CUBIC FEET (FOOT) | CI | CURB INLET | CIP | CAST-IN-PLACE | CIRC | CIRCULATION, CIRCULAR | CJ | CONSTRUCTION JOINT, CONTROL JOINT | CL | CENTERLINE, CLASS, CLOSE | CLR | CLEAR | CMU | CONCRETE MASONRY UNIT | COL | COLUMN | COMB | COMBINATION | CONC | CONCENTRIC, CONCRETE | CONN | CONNECTION | CONST | CONSTRUCTION | CONT | CONTINUOUS, CONTINUED | COORD | COORDINATE | CPLG | COUPLING | CSK | COUNTERSINK | CTR | CENTER | CTRL | CONTROL | CU | COPPER, CUBIC | CW | CLOCKWISE | CY | CUBIC YARD |
| d | PENNY (NAIL MEASURE) | DBA | DEFORMED BAR ANCHOR | DBL | DOUBLE | DEG | DEGREE | DEG C | DEGREE CENTIGRADE | DEG F | DEGREE FAHRENHEIT | DEMO | DEMOLITION | DEPT | DEPARTMENT | DET | DETAIL | DI | DROP INLET, DUCTILE IRON | DIA | DIAMETER | DIAG | DIAGONAL, DIAGRAM | DIFF | DIFFERENTIAL, DIFFERENCE | DIM | DIMENSION | DIST | DISTANCE, DISTRIBUTION | DL | DEAD LOAD | DN | DOWN | DT | DOUBLE TEE, DRIP TRAP ASSEMBLY | DUP | DUPLICATE | DWG | DRAWING | DWL | DOWEL | | | | | | | | | | | | |
| E | EAST | EA | EACH, EXHAUST AIR | ECC | ECCENTRIC | EE | EACH END | EF | EACH FACE | EG | EXISTING GRADE | EGL | ENERGY GRADE LINE | EJ | EXPANSION JOINT | EL | ELEW, ELEVATION | ELEC | ELECTRICAL | EMBD | EMBEDDED | ENCL | ENCLOSURE | ENGR | ENGINEER | ENTR | ENTRANCE | EOP | EDGE OF PAVEMENT | EOW | EDGE OF WATER | EQ | EQUAL | EQUIP | EQUIPMENT | EQUIV | EQUIVALENT | ES | EACH SIDE, EQUAL SPACE, EMERGENCY SHOWER | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| EST | ESTIMATE | EW | EACH WAY, EMERGENCY EYE/FACE WASH | EWFB | EACH WAY, EACH FACE | WTB | EACH WAY, TOP AND BOTTOM | EXC | EXCAVATION | EXIST | EXISTING | EXP | EXPANSION, EXPOSED | EXT | EXTERIOR, EXTENSION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F TO F | FACE TO FACE | FAB | FABRICATE | FBO | FURNISHED BY OWNER | FD | FLOOR DRAIN | FE | FLANGED END | FF | FAR FACE, FACTORY FINISH, FLAT FACE | FG | FINISHED GRADE | FIG | FIGURE | FIN | FINISH | FL | FLOW, FLOW LINE | FLEX | FLEXIBLE | FLG | FLANGE | FLR | FLOOR | FND | FOUNDATION | FO | FINISHED OPENING | FOC | FACE OF CONCRETE, FACE OF CURB, FIBER OPTIC CABLE | FOM | FACE OF MASONRY | FOS | FACE OF STUDS | FPT | FEMALE PIPE THREAD | FR | FRAME | FRP | FIBERGLASS REINFORCED PLASTIC | FS | FLOOR SINK, FAR SIDE | FT | FEET, FOOT | FTG | FOOTING, FITTING FUR FURRED, FURRING | FURN | FURNITURE, FURNISH | FW | FIELD WELD, FIRE WALL | FWD | FORWARD |
| G | GRILLE, GROUND | GA | GAGE (METAL THICKNESS) | GAL | GALLON | GALV | GALVANIZED | GB | GRADE BREAK | GEN | GENERAL | GR | GRADE | GRND | GROUND | GRTG | GRATING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HC | HORIZONTAL CENTERLINE | HDR | HEADER | HDW | HARDWARE | HEX | HEXAGONAL | HORIZ | HORIZONTAL | HP | HIGH POINT, HORSEPOWER | HR | HOUR | HS | HEADED STUD, HIGH STRENGTH | HSS | HOLLOW STRUCTURAL SHAPE | HT | HEIGHT | HVAC | HEATING, VENTILATION & AIR CONDITIONING | HWL | HIGH WATER LEVEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ID | INSIDE DIAMETER, INTERIOR DIMENSION | IE | INVERT ELEVATION | IF | INSIDE FACE | IN | INCH | INC | INCLUDE, INCANDESCENT | INT | INTERIOR, INTERSECTION | INTR | INTERMEDIATE, INTERIOR | INV | INVERT | IPS | IRON PIPE SIZE | IPT | INTERNAL PIPE THREAD | IRR | IRRIGATION | ISO | ISOMETRIC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JF | JOINT FILLER | JT | JOINT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K | KIP | KSI | KIPS PER SQUARE INCH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | ANGLE, LENGTH, LAVATORY | LAM | LAMINATE | LB | LAG BOLT, POUND | LDR | LEADER | LF | LINEAR FOOT | LG | LONG | LH | LEFT HAND | LIN | LINEAR | LL | LIVE LOAD | LLH | LONG LEG HORIZONTAL | LLV | LONG LEG VERTICAL | LNG | LONGITUDINAL | LOC | LOCATION | LT | LEFT | LTD | LIMITED | LTG | LIGHTING | LTL | LINTEL | LVR | LOUVER | LW | LIGHTWEIGHT | LWC | LIGHTWEIGHT CONCRETE | LWL | LOW WATER LEVEL | | | | | | | | | | | | |
| MAINT | MAINTENANCE | MAN | MANUAL | MATL | MATERIAL | MAX | MAXIMUM | MB | MACHINE BOLT | MCJ | MASONRY CONTROL JOINT | MECH | MECHANICAL | MED | MEDIUM | MFR | MANUFACTURER | MH | MANHOLE, METAL HALIDE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|--------|--------------------|------|--------------------|-------|--------------------------------|------|-----------------------------|------|-----------------------|------|----------------------|-----|----------------|-------|-----------------|------|-----------------|------|-------------------|------|----------------------|------|-----------------------|-----|---------------|-----|----------------------|-----|------------------------|-----|-------------------|------|----------------------------|------|-------------|--------|-----------------|--------|-------------|------|---------|------|----------|-----|------------------------|-----|------------------------|------|---------------------------------|------|-----------------------------|----|--------------------------|-----|--------------------|------|----------|----|------------|
| MIN | MINIMUM | MISC | MISCELLANEOUS | MJ | MECHANICAL JOINT | MOD | MODULAR, MODIFY | MON | MONUMENT | MPT | MALE PIPE THREAD | MSL | MEAN SEA LEVEL | MU | MASONRY UNIT | MW | MONITORING WELL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N | NORTH, NEUTRAL | NA | NOT APPLICABLE | NAT | NATURAL | NC | NORMALLY CLOSED | NEG | NEGATIVE | NF | NEAR FACE, NON-FUSED | NG | NATURAL GAS | NIC | NOT IN CONTRACT | NOM | NOMINAL | NPS | NOMINAL PIPE SIZE | NPT | NATIONAL PIPE THREAD | NS | NEAR SIDE | NTS | NOT TO SCALE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| O TO O | OUT-TO-OUT | OC | ON CENTER | OD | OUTSIDE DIAMETER | OH | OVERHEAD | OPNG | OPENING | OPP | OPPOSITE | OPT | OPTIONAL | ORIG | ORIGINAL | OVFL | OVERFLOW | OVHG | OVERHANG | OZ | OUNCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | PAINT | PAR | PARALLEL, PARAPET | PC | POINT OF CURVE, PIECE, PRECAST | PCC | POINT OF COMPOUND CURVATURE | PCF | POUNDS PER CUBIC FOOT | PCT | PLAIN END | PED | PEDESTAL | PEN | PENETRATION | PERF | PERFORATED | PERM | PERMANENT | PERP | PERPENDICULAR | PI | POINT OF INTERSECTION | PKG | PACKAGE | PL | PLATE, PROPERTY LINE | PLF | POUNDS PER LINEAR FOOT | POS | POSITIVE POSITION | PRC | POINT OF REVERSE CURVATURE | PREF | PREFINISHED | PREFAB | PREFABRICATED | PRELIM | PRELIMINARY | PREP | PREPARE | PROP | PROPERTY | PSF | POUNDS PER SQUARE FOOT | PSI | POUNDS PER SQUARE INCH | PSIA | POUNDS PER SQUARE INCH ABSOLUTE | PSIG | POUNDS PER SQUARE INCH GAGE | PT | POINT, POINT OF TANGENCY | PVC | POLYVINYL CHLORIDE | PVMT | PAVEMENT | PZ | PIEZOMETER |
| Q | RATE OF FLOW | QTR | QUARTER | QTY | QUANTITY | QUAL | QUALITY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R&R | REMOVE AND REPLACE | R&S | REMOVE AND SALVAGE | R | RADIUS, REGISTER, RISER | RCPT | RECEPTACLE | RECD | RECEIVED | RECT | RECTANGULAR | REF | REFERENCE | REINF | REINFORCING | REQD | REQUIRED | RET | RETAINING, RETURN | REV | REVISION, REVERSE | RND | ROUND | RO | ROUGH OPENING | ROW | RIGHT-OF-WAY | RPM | REVOLUTIONS PER MINUTE | RR | RAILROAD | RT | RIGHT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | SOUTH, SINK | SCH | SCHEDULE | SCHEM | SCHEMATIC | SCRN | SCREEN | SEC | SECONDARY, SECONDS | SECT | SECTION | SF | SQUARE FOOT | SHT | SHEET | SHTG | SHEATHING | SIM | SIMILAR | SL | SLOPE | SLTD | SLOTTED | SLV | SLEEVE | SOG | SLAB ON GRADE | SPP | SOUNDPROOF, STANDPIPE | SFC | SPACING | SPEC | SPECIFICATION | SQ | SQUARE | SST | STAINLESS STEEL | ST | STREET | | | | | | | | | | | | | | | | | | | | |

STATION
STD STANDARD
STIF STIFFENER
STIR STIRRUP
STL STEEL
STOR STORAGE
STR STRUCTURAL, STRAIGHT
SUB SUBSTITUTE
SY SQUARE YARD
SYM SYMBOL
SYMM SYMMETRICAL
SYS SYSTEM

T&B TOP AND BOTTOM
T&G TONGUE AND GROOVE
TAN TANGENT
TBM TEMPORARY BENCHMARK
TEMP TEMPORARY, TEMPERATURE
THK THICK
THRD THROUGH
THRU THROUGH
TOB TOP OF BOLT, TOP OF BANK, TOP OF BEAM
TOC TOP OF CURB, TOP OF CONCRETE
TOF TOP OF FOOTING
TOG TOP OF GRATING
TOM TOP OF MASONRY
TOP TOP OF PLATE
TOPO TOPOGRAPHY
TOS TOP OF SLAB, TOP OF STEEL
TOW TOP OF WALL
TRANS TRANSITION
TYP TYPICAL

UG UNDERGROUND
ULT ULTIMATE
UNFN UNFINISHED
UNO UNLESS NOTED OTHERWISE
UTIL UTILITY

V VENT, VELOCITY, VOLT
VAC VACUUM
VAR VARNISH, VARIABLE, VOLT AMPERES REACTIVE
VB VAPOR BARRIER, VINYL BASE, VALVE BOX
VC VERTICAL CURVE
VEL VELOCITY
VENT VENTILATION
VERT VERTICAL
VS VERSES, VAPOR SEAL
VOL VOLUME
VPC VERTICAL POINT OF CURVATURE
VPI VERTICAL POINT OF INTERSECTION
VPT VERTICAL POINT OF TANGENCY

W/ WITH
W/O WITHOUT
WATT, WEST, WIDE, WINDOW, WIRE, WIDE FLANGE BEAM
WF WIDE FLANGE, WASH FOUNTAIN
WL WATER LEVEL
WLD WELDED
WP WATERPROOF, WORKING POINT
WS WATERSTOP, WATER SURFACE
WSEL WATER SURFACE ELEVATION
WT WEIGHT, WATER TIGHT
WWF WELDED WIRE FABRIC

XS EXTRA STRONG
XXS DOUBLE EXTRA STRONG
XSECT CROSS SECTION

YH YARD HYDRANT
YS YIELD STRENGTH

GENERAL NOTES:

- THESE ABBREVIATIONS APPLY TO THE ENTIRE SET OF CONTRACT DRAWINGS.
- LISTING OF ABBREVIATIONS DOES NOT IMPLY ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS.
- ABBREVIATIONS SHOWN ON THIS SHEET INCLUDE VARIATIONS OF THE WORD. FOR EXAMPLE, "MOD" MAY MEAN MODIFY OR MODIFICATION; "INC" MAY MEAN INCLUDED OR INCLUDING; "REINF" MAY MEAN EITHER REINFORCE OR REINFORCING.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.

12/04/2024

| REV | DATE | BY | DESCRIPTION |
|-----|----------|-----|---|
| F | 12/4/24 | MJW | REISSUED FOR CONSTRUCTION |
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| B | 02/11/22 | MJW | CONCEPTUAL DESIGN ALTERNATIVES RE-SUBMITTAL |
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WARNING

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TROUT UNLIMITED
 NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT
 STANDARD ABBREVIATIONS AND SYMBOLS

| |
|-----------------------|
| DESIGNED J. WOODBURY |
| DRAWN J. LAHMON |
| CHECKED N. KRAUS |
| ISSUED DATE 12/4/2024 |

DRAWING
G002
 SCALE: AS NOTED

Path: C:\Users\User\QRS Consulting\QRS Projects - Documents\TU\22xx - North Eden Creek Culvert Replacement\CAD\G002.dwg Plot date: Dec 04, 2024 03:35pm. CAD User: User



SHEET NOTES:

- SITE SURVEY CONDUCTED BY AA HUDSON IN OCTOBER, 2022.
- SURVEY ELEVATIONS AND COORDINATES ARE PRESENTED IN THE FOLLOWING GEOGRAPHIC SYSTEMS:
 VERTICAL DATUM: NAVD88.
 HORIZONTAL DATUM: NAD 83.
 PROJECTION: UTAH STATE PLANE NORTH, US SURVEY FEET.

| SURVEY CONTROL | | | | |
|----------------|----------|---------|----------|---------------------------------------|
| POINT NO | NORTHING | EASTING | ELEV | DESCRIPTION |
| 1 | 3884891 | 1704783 | 6057.409 | FND 1.5" ALUM CAP SURVEYING ASSOC INC |
| 2 | 3882493 | 1704854 | 6125.695 | FND 3/8" REBAR NO CAP |
| 101 | 3883544 | 1704777 | 5987.733 | SET REBAR PLASTIC CAP CONTROL |

POINT NO 2 IS LOCATED APRX 1050' SSE OF CULVERT CROSSING AND NOT SHOWN ON THIS PLAN

EXISTING SITE PLAN
 SCALE: 1" = 100'



| REV | DATE | BY | DESCRIPTION |
|-----|----------|-----|---|
| F | 12/4/24 | MJW | REISSUED FOR CONSTRUCTION |
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TROUT UNLIMITED
 NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT

EXISTING SITE PLAN AND SURVEY CONTROL

DESIGNED J. WOODBURY
 DRAWN J. LAHMOM
 CHECKED N. KRAUS
 ISSUED DATE 12/4/2024



DRAWING
G003
 SCALE: AS NOTED

SHEET NOTES:

1. ALL TEMPORARY EROSION, SEDIMENT CONTROL, AND DEWATERING MEASURES SHOWN IN THIS PLAN SET ARE FOR CONTRACTORS INFORMATION ONLY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING, IMPLEMENTING, AND MAINTAINING AN EROSION, SEDIMENT CONTROL, AND DEWATERING PLAN THAT MEETS ALL STATE, FEDERAL, AND LOCAL REQUIREMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE TEMPORARY MEASURES FOR THE DURATION OF THE PROJECT.
4. ALL TEMPORARY MEASURES SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
5. ALL CONSTRUCTION EQUIPMENT SHALL BE CLEAN AND FREE OF DIRT, GREASE, AND DEBRIS UPON ARRIVAL TO THE SITE.
6. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT NO PETROLEUM PRODUCTS, HYDRAULIC FLUID, SEDIMENTS, SEDIMENT-LADEN WATER, CHEMICALS, OR ANY OTHER TOXIC OR DELETERIOUS MATERIALS ARE ALLOWED TO ENTER OR LEACH INTO ADJACENT RIVERS, STREAMS, OR WETLANDS.
7. ALL DISCHARGE FROM DEWATERING ACTIVITIES SHALL BE RELEASED IN SUCH A MANNER THAT PREVENTS EROSION OR DAMAGE AT THE POINT OF DISCHARGE. DISCHARGE RETURNING TO NATURAL WATERWAYS SHALL ADHERE TO ALL APPLICABLE WATER QUALITY STANDARDS.
8. ALL TEMPORARY EROSION, SEDIMENT CONTROL, AND DEWATERING MATERIALS SHALL BE REMOVED AND DISPOSED OF AT AN APPROPRIATE OFFSITE LOCATION FOLLOWING COMPLETION OF PERMANENT SITE STABILIZATION.
9. ALL STAGING, CLEARING AND GRADING AREAS SHALL BE ISOLATED FROM NATURAL WATERWAYS AND WETLANDS USING SILT FENCE AND/OR STRAW WATTLE BARRIERS.
10. ALL SOIL AND MATERIAL STOCKPILES SHALL BE PLACED IN A STABLE LOCATION AND PLASTIC SHEETING SHALL BE USED TO TEMPORARILY COVER SOIL AND/OR MATERIAL DURING CONSTRUCTION IF INACTIVE FOR A PERIOD OF MORE THAN 7 DAYS. SEE STANDARD DETAIL EC106.

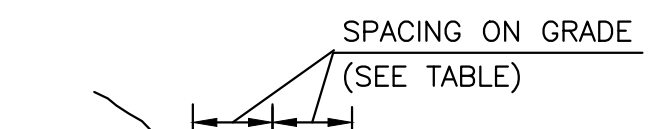
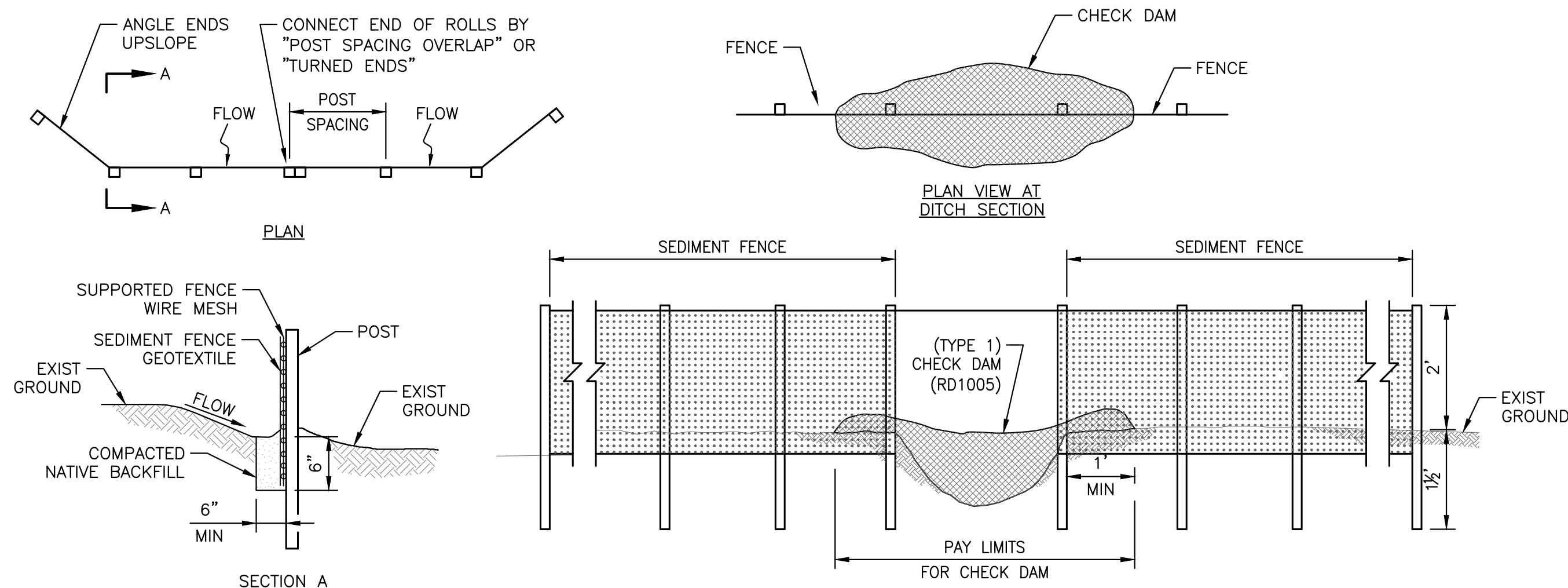


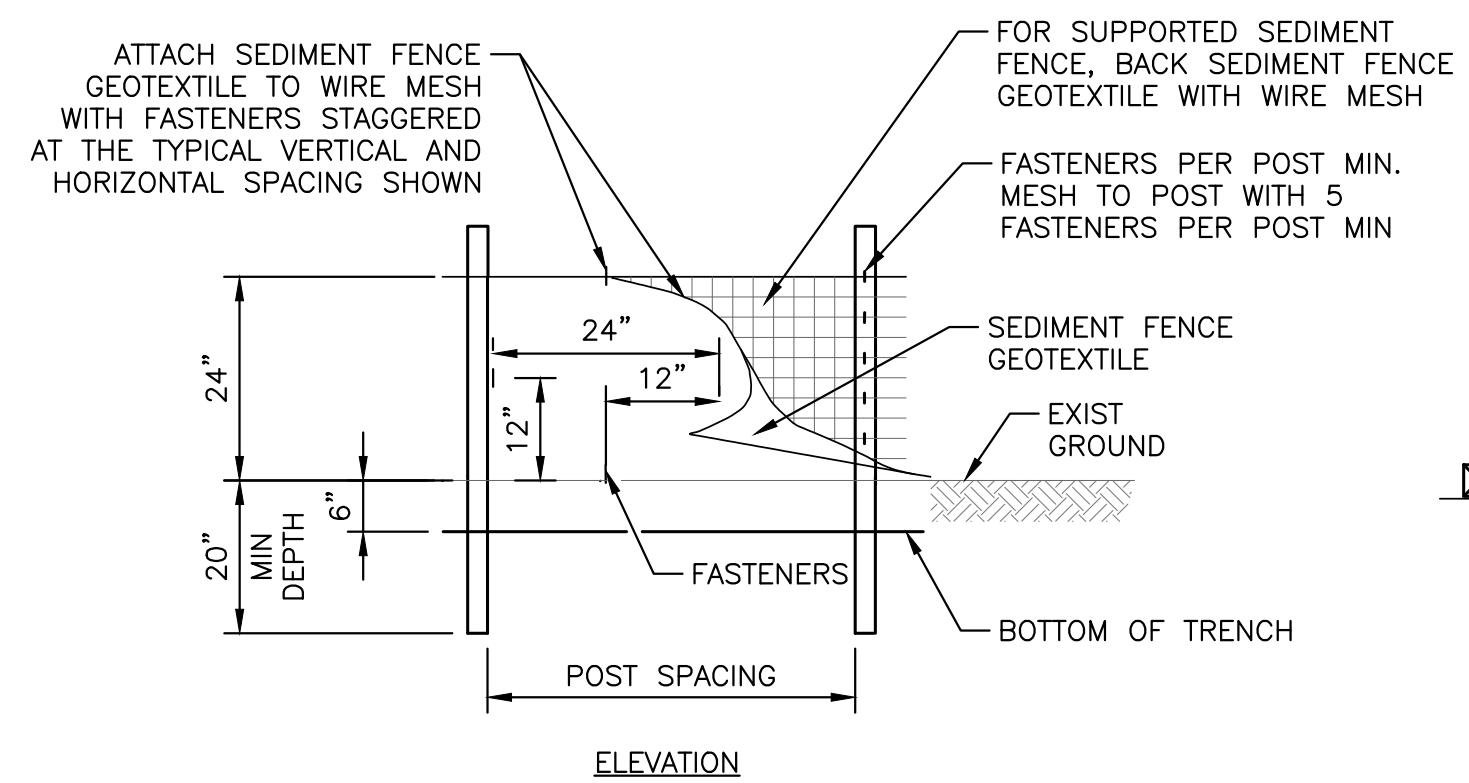
TABLE 1
 FENCE SPACING FOR GENERAL APPLICATION

| INSTALL PARALLEL ALONG CONTOURS AS FOLLOWS | |
|--|--------------------------|
| GRADE | MAXIMUM SPACING ON GRADE |
| GRADE ≤ 0% | 300' |
| 10% ≤ GRADE < 15% | 150' |
| 15% ≤ GRADE < 20% | 100' |
| 20% ≤ GRADE < 30% | 50' |
| 30% ≤ GRADE | 25' |

TABLE 2
 POST SPACING

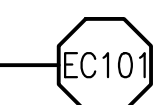
| | |
|----|---|
| 4' | SUPPORTED SEDIMENT FENCE |
| 6' | UNSUPPORTED SEDIMENT FENCE WITH GEOTEXTILE ELONGATION * LESS THAN 50% |
| 4' | UNSUPPORTED SEDIMENT FENCE WITH GEOTEXTILE ELONGATION * MORE THAN 50% |

* GEOTEXTILE GRAB ELONGATION VALUE AS DOCUMENTED BY "LEVEL B" MFR'S DOCUMENTATION (SEE STANDARD SPECIFICATIONS).

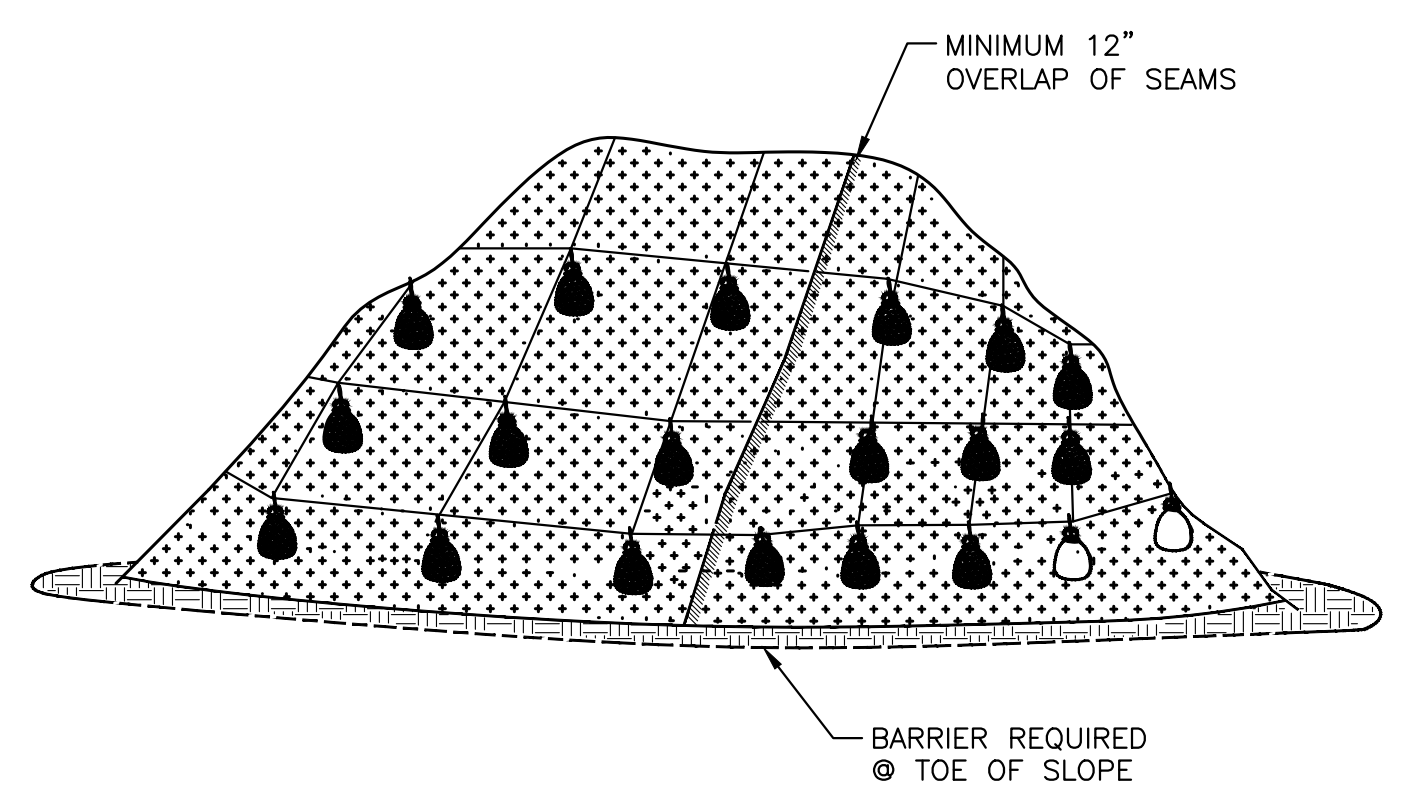


SILT FENCE DETAIL

SCALE: NTS



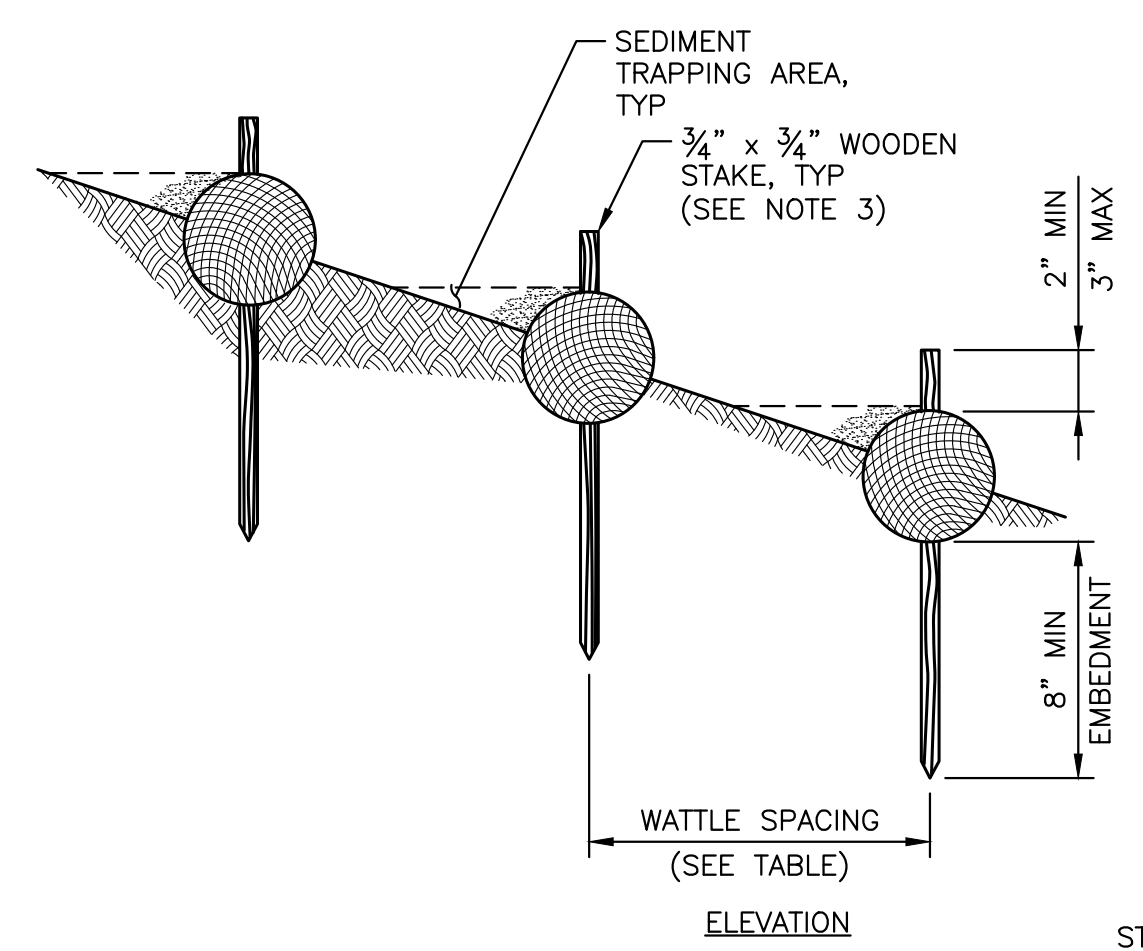
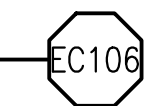
- NOTES**
1. INSTALL WATTLES ALONG CONTOURS. SEE TABLE FOR SPACING.
 2. WATTLES SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RUNOFF PRODUCING RAINFALL, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.
 3. LIVE STAKES MAY BE USED FOR PERMANENT INSTALLATIONS.
 4. INSTALL WATTLES SNUGLY INTO THE TRENCH. ADJACENT WATTLES TIGHTLY, END TO END, WITHOUT OVERLAPPING THE ENDS.
 5. PILOT HOLES MAY BE DRIVEN THROUGH THE WATTLE AND INTO THE SOIL, WHEN SOIL CONDITIONS REQUIRE.
 6. INSTALL AT TOE OF SLOPES. SLOPES GREATER THAN 15' IN LENGTH SHALL HAVE A WATTLE INSTALLED MID SLOPE.



- NOTES:**
1. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
 2. BARRIER REQUIRED @ TOE OF STOCK PILE.
 3. COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS.

PLASTIC SHEETING

SCALE: NTS

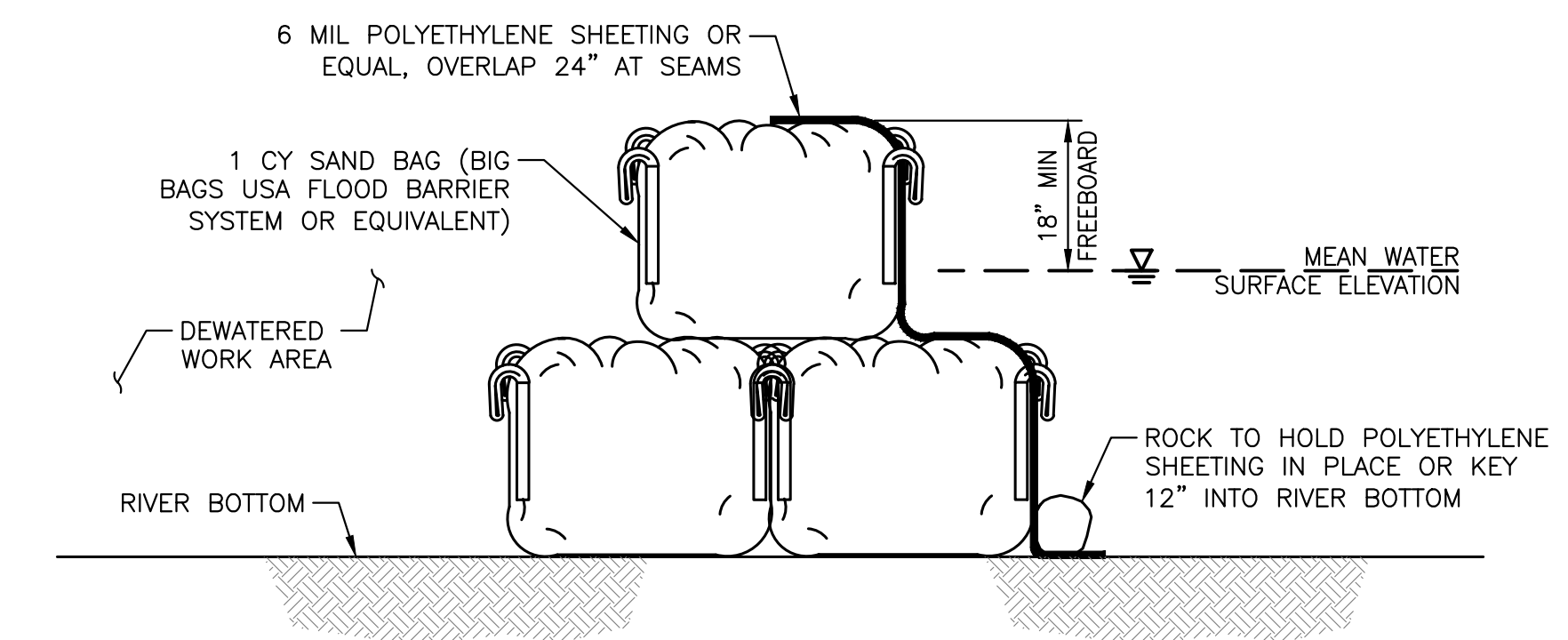
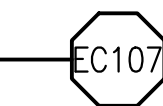


WATTLE SPACING TABLE

| SLOPE | MAXIMUM SPACING |
|-------|-----------------|
| 1:1 | 10 FEET |
| 2:1 | 20 FEET |
| 3:1 | 30 FEET |
| 4:1 | 40 FEET |
| >4:1 | 80 FEET |

WATTLE

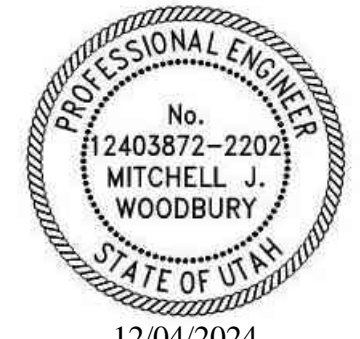
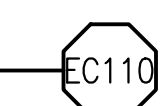
SCALE: NTS



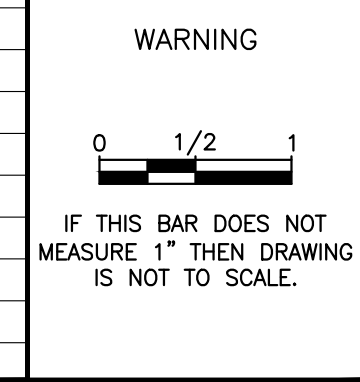
- NOTES:**
1. PROVIDE ADDITIONAL SAND BAG TIER AS NECESSARY TO ACCOMMODATE DEEPER WATER DEPTHS UP TO A MAXIMUM OF 3 TIERS TOTAL.

TEMPORARY COFFERDAM

SCALE: NTS



12/04/2024



TROUT UNLIMITED
 NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT
 STANDARD EROSION SEDIMENT CONTROL DETAILS

DESIGNED J. WOODBURY
 DRAWN J. LAHMOM
 CHECKED N. KRAUS
 ISSUED DATE 12/4/2024



DRAWING
EC001
 SCALE: AS NOTED

| REV | DATE | BY | DESCRIPTION |
|-----|----------|-----|---|
| F | 12/4/24 | MJW | REISSUED FOR CONSTRUCTION |
| E | 11/8/24 | MJW | ISSUED FOR CONSTRUCTION |
| D | 12/22/23 | MJW | 60% DRAFT SUBMITTAL |
| C | 08/13/23 | MJW | 30% DESIGN REVIEW SUBMITTAL |
| B | 02/11/22 | MJW | CONCEPTUAL DESIGN ALTERNATIVES RE-SUBMITTAL |
| A | 11/15/21 | MJW | CONCEPTUAL DESIGN ALTERNATIVES SUBMITTAL |

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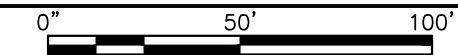


SHEET NOTES:

1. EROSION AND SEDIMENT CONTROL PLAN IS SHOWN FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE FOR DEVELOPMENT OF ESC PLAN THAT MEETS MOST STRINGENT OF LOCAL, STATE, AND FEDERAL ESC REQUIREMENTS.
2. ADDITIONAL CONTRACTOR STAGING AND STORAGE AREA MAY BE AVAILABLE TO CONTRACTOR WITH PRIVATE LANDOWNER'S PERMISSION.
3. CONTRACTOR ACCESS ROAD SHALL BE INSTALLED SOUTH OF THE PRIVATE PROPERTY BOUNDARY LINE (NOT SHOWN). PROPERTY BOUNDARY LINE HAS BEEN SURVEYED AND STAKED. BOUNDARY LINE SHALL BE CLEARLY FLAGGED BY CONTRACTOR TO INSURE NORTHERN PROPERTY IS NOT DISTURBED AS A RESULT OF THE WORK.
4. CONTRACTOR SHALL INSTALL SILT FENCE ALONG TEMPORARY ACCESS ROAD TO PREVENT ANY EROSION OR DEBRIS FROM OCCURRING TO NORTHERN PROPERTY.
10. ALL SOIL AND MATERIAL STOCKPILES SHALL BE PLACED IN A STABLE LOCATION AND PLASTIC SHEETING SHALL BE USED TO TEMPORARILY COVER SOIL AND/OR MATERIAL DURING CONSTRUCTION IF INACTIVE FOR A PERIOD OF MORE THAN 7 DAYS. SEE STANDARD DETAIL EC106.

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 50'



| REV | DATE | BY | DESCRIPTION |
|-----|----------|-----|---|
| F | 12/4/24 | MJW | REISSUED FOR CONSTRUCTION |
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| A | 11/15/21 | MJW | CONCEPTUAL DESIGN ALTERNATIVES SUBMITTAL |

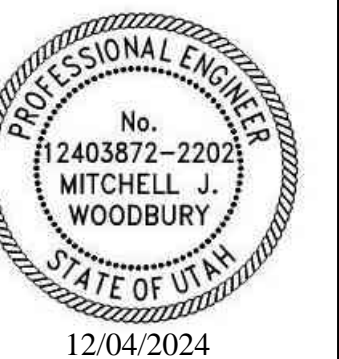
WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



| |
|--|
| TROUT UNLIMITED |
| NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT |
| EROSION AND SEDIMENT CONTROL PLAN |

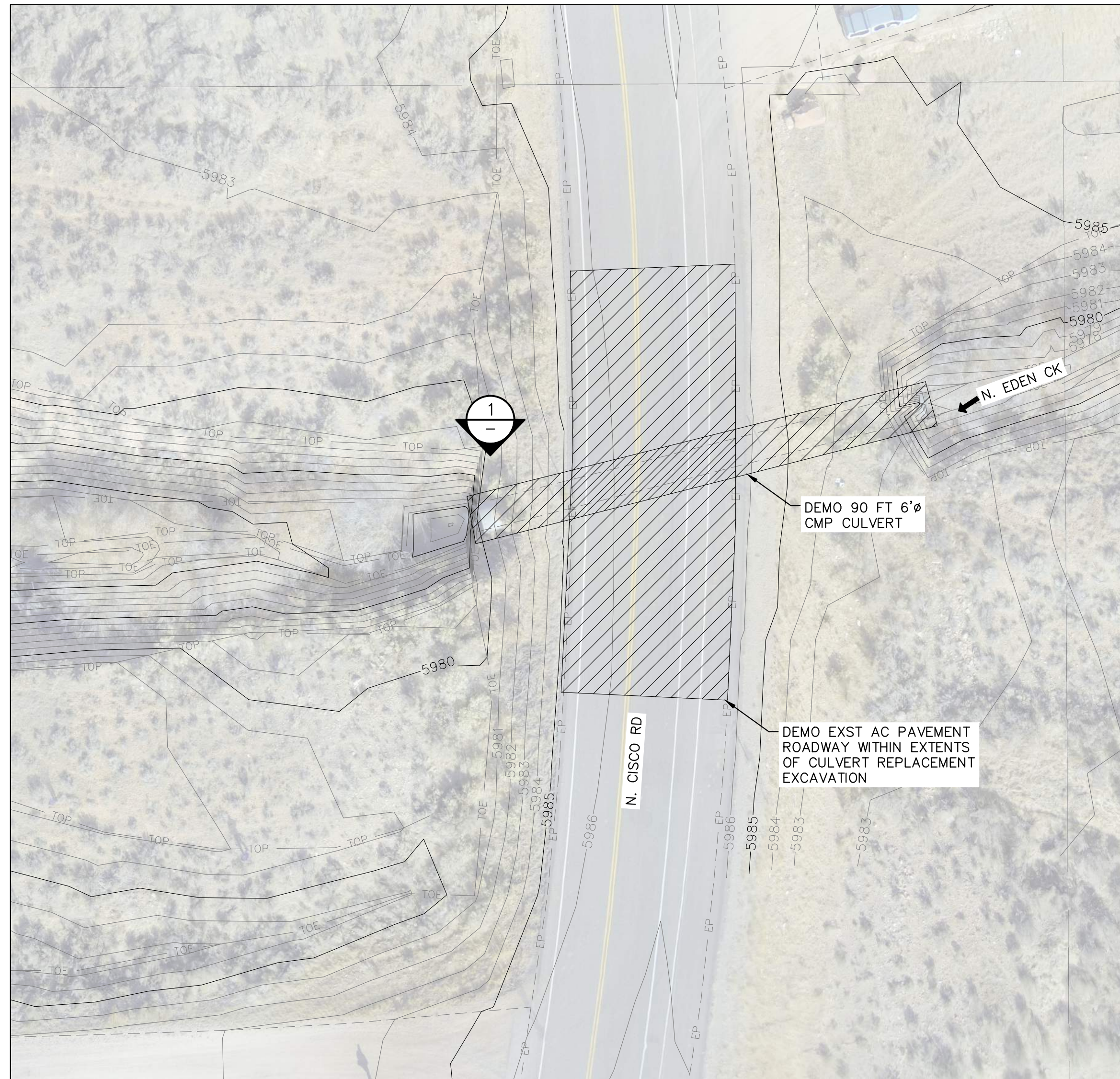
| |
|-----------------------|
| DESIGNED J. WOODBURY |
| DRAWN J. LAHMON |
| CHECKED N. KRAUS |
| ISSUED DATE 12/4/2024 |



12/04/2024

DRAWING
EC002

SCALE: AS NOTED



DEMOLITION PLAN

SCALE: 1" = 20'

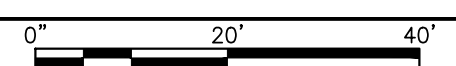
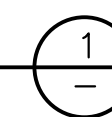


PHOTO 1. EXIST 6' CULVERT

SCALE: NTS



SHEET NOTES:

1. CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION AND WASTE GENERATED BY PERFORMANCE OF THE WORK AT AN APPROVED OFF-SITE FACILITY.
2. EXTENTS OF AC PAVEMENT DEMOLITION IS APPROXIMATE AND MAY VARY WITH CONTRACTOR EXCAVATION LIMITS.



| REV | DATE | BY | DESCRIPTION |
|-----|----------|-----|---|
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| B | 02/11/22 | MJW | CONCEPTUAL DESIGN ALTERNATIVES RE-SUBMITTAL |
| A | 11/15/21 | MJW | CONCEPTUAL DESIGN ALTERNATIVES SUBMITTAL |

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

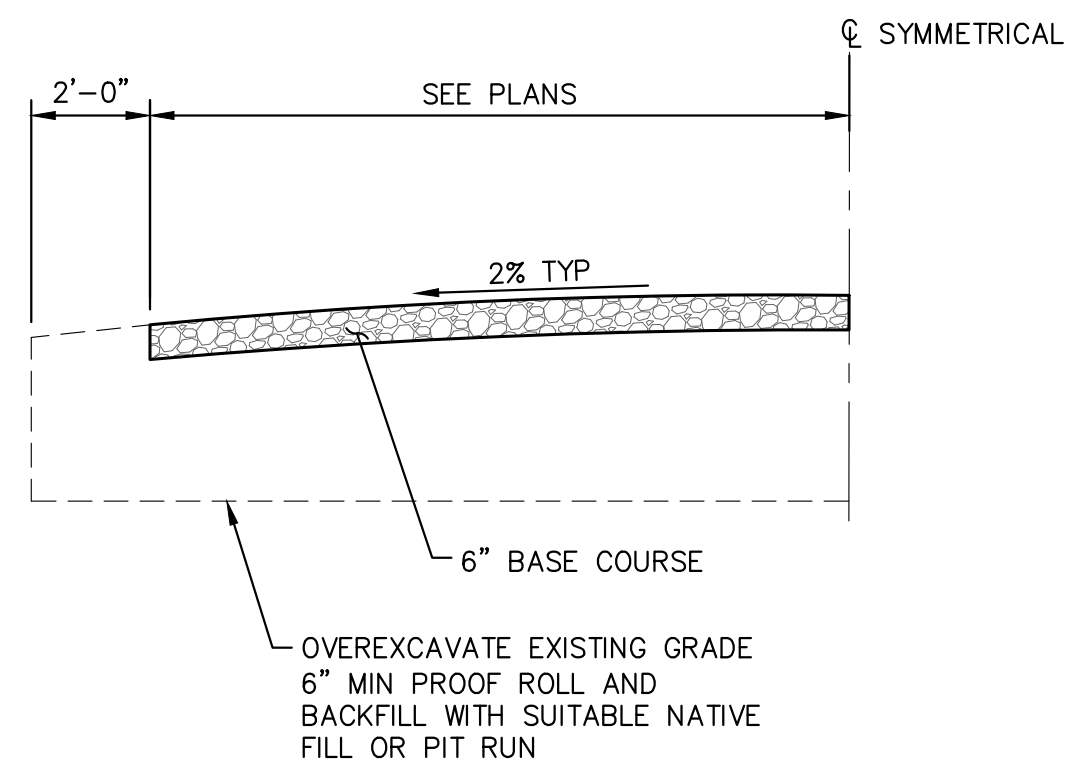


| |
|--|
| TROUT UNLIMITED |
| NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT |
| DEMOLITION PLAN |

| |
|-----------------------|
| DESIGNED J. WOODBURY |
| DRAWN J. LAHMON |
| CHECKED N. KRAUS |
| ISSUED DATE 12/4/2024 |

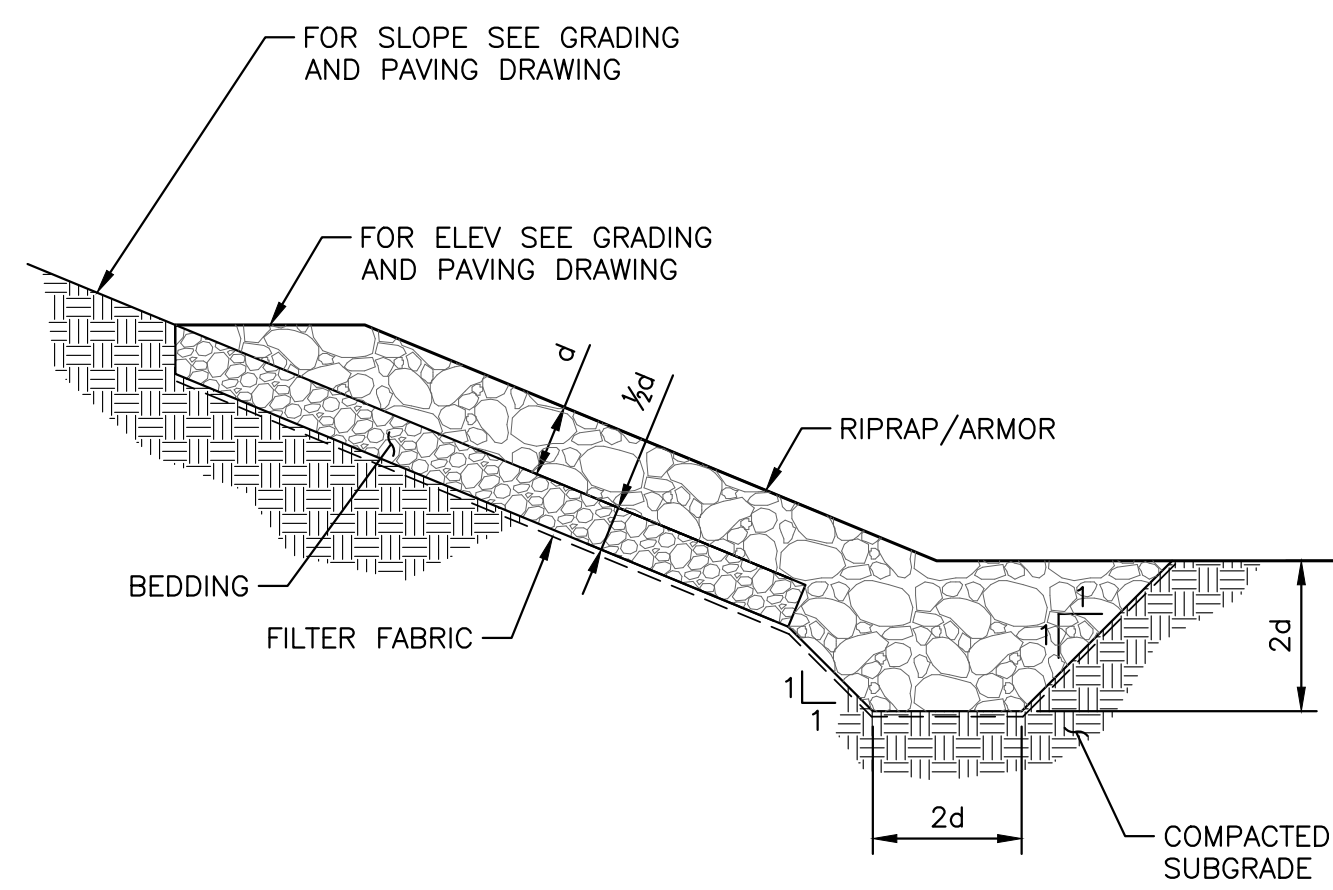
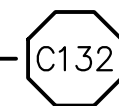
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|-----------------|
| DRAWING |
| D001 |
| SCALE: AS NOTED |

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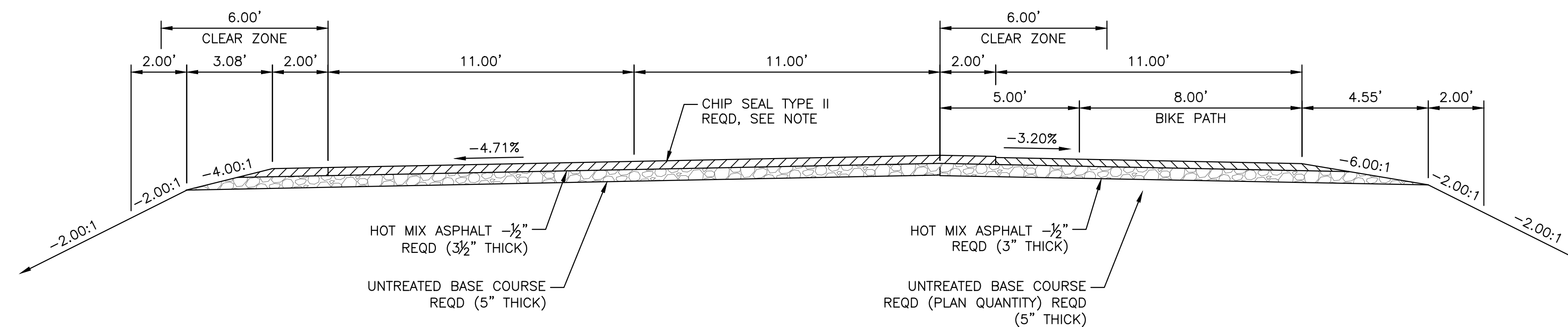


GRAVEL ROAD SECTION

SCALE: NTS



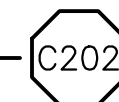
- NOTES:**
 1. d = D100 OF SPECIFIED RIPRAP GRADATION
 2. FOR RIP-RAP ARMOR AND BEDDING SIZE, SEE SPECS.



- NOTE:**
 1. CHIP SEAL TRAVEL LANES AND 2' SHOULDER (LEFT) ONLY. FLUSH COAT ENTIRE PAVEMENT WIDTH, INCLUDING BIKE PATH.

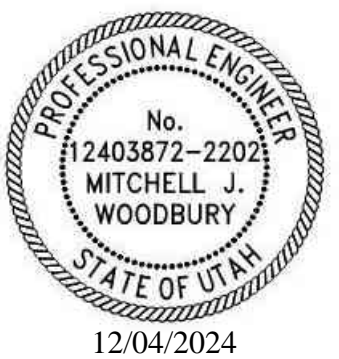
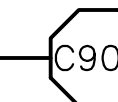
RIP-RAP & ARMOR PROTECTION

SCALE: NTS

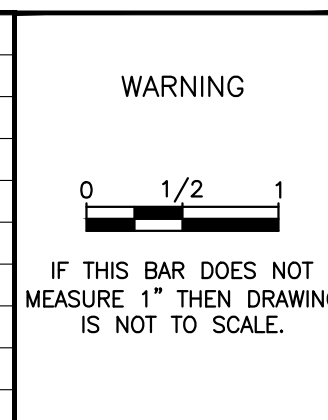


TYPICAL ROADWAY DETAIL

SCALE: NTS



| REV | DATE | BY | DESCRIPTION |
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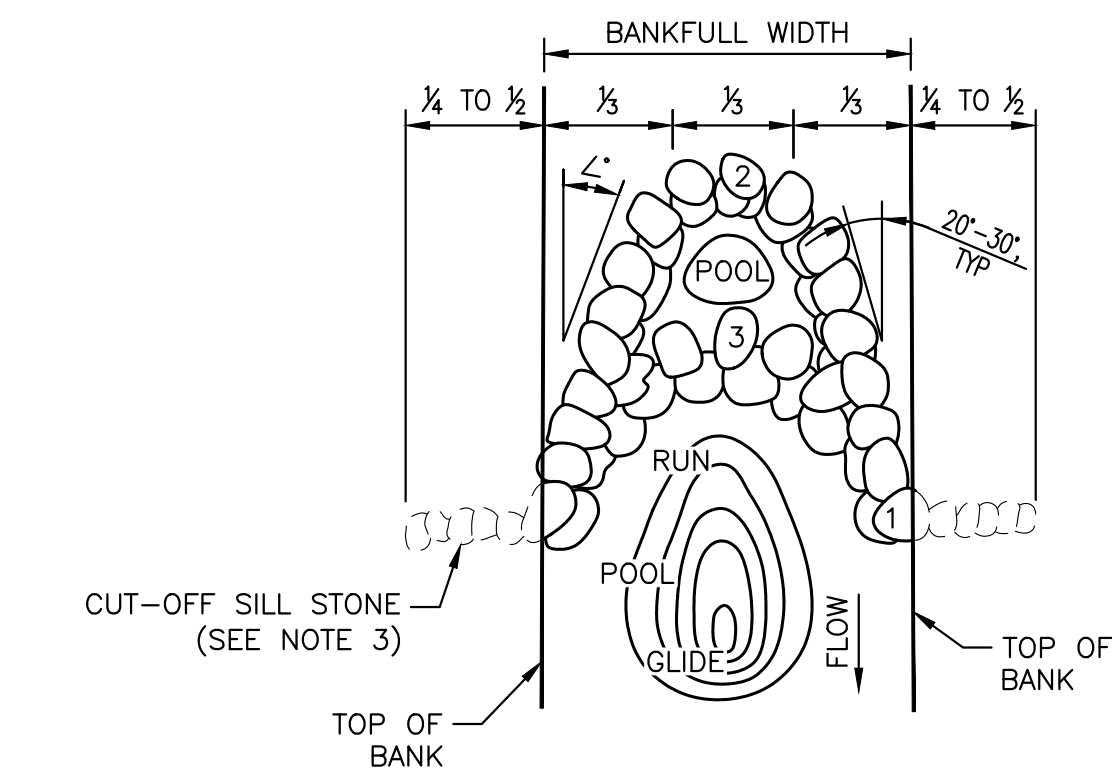
TROUT UNLIMITED
 NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT
 CIVIL STANDARD DETAILS

DESIGNED J. WOODBURY
 DRAWN J. LAHMON
 CHECKED N. KRAUS
 ISSUED DATE 12/4/2024



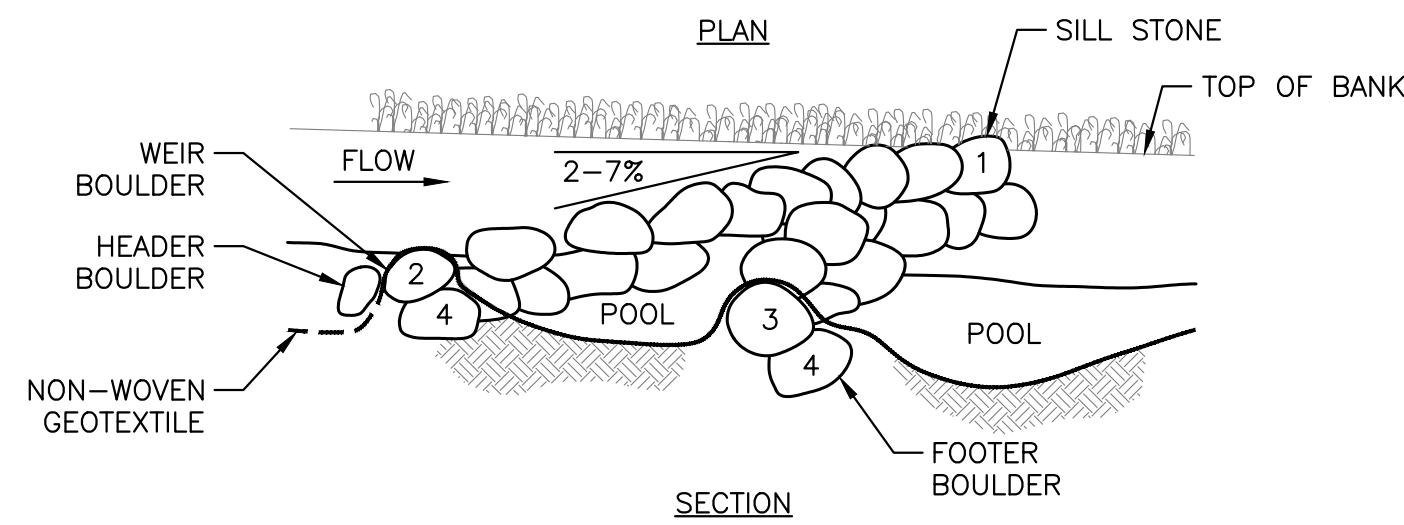
DRAWING
GC001
 SCALE: AS NOTED

Path: C:\Users\User\QRS Consulting\QRS Projects - Documents\TU\22xx - North Eden Creek Culvert Replacement\CAD\GC001.dwg Plot date: Dec 04, 2024 03:36pm. CAD User: User



| ROCK VANE STONE SIZE | | |
|----------------------|--------|----------|
| NO | STONE | DIA (IN) |
| 1 | SILL | 12 |
| 2 | HEADER | 24 |
| 3 | WEIR | 24 |
| 4 | FOOTER | 12 |

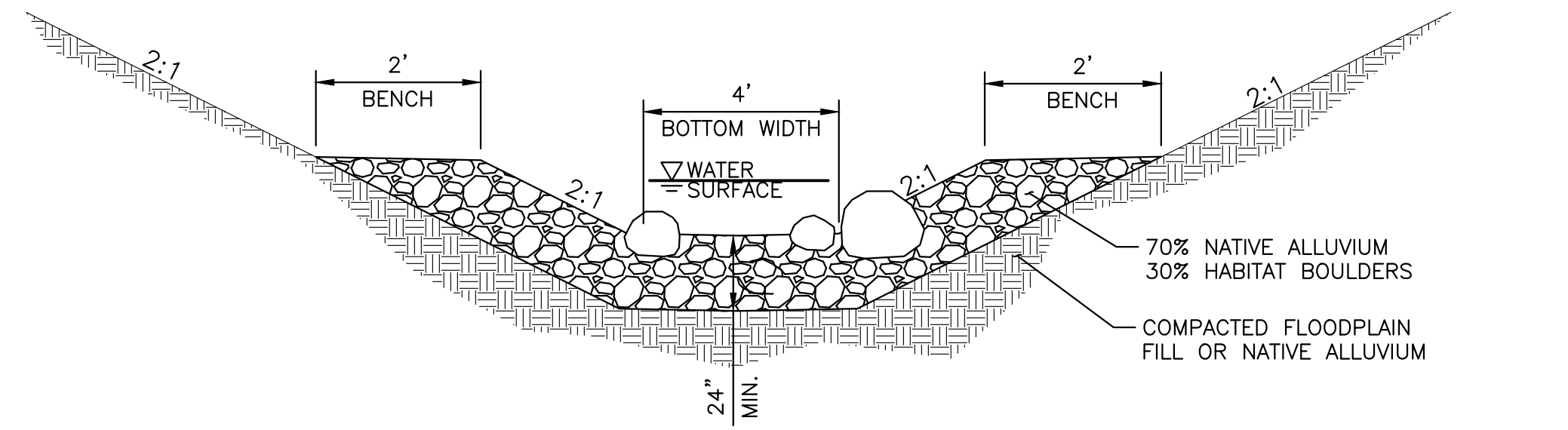
- NOTES:
- CONTRACTOR SHALL COORDINATE WITH ENGINEER ON ROCK VANE BOULDER PLACEMENT.
 - BOULDERS SHALL BE RECTANGULAR IN SHAPE WITH WIDTH AND DEPTH OF ROCK BEING 1/3 THE SPECIFIED DIAMETER.
 - GAPS BETWEEN KEY BOULDERS SHALL BE CHINKED WITH SMALLER STONE.



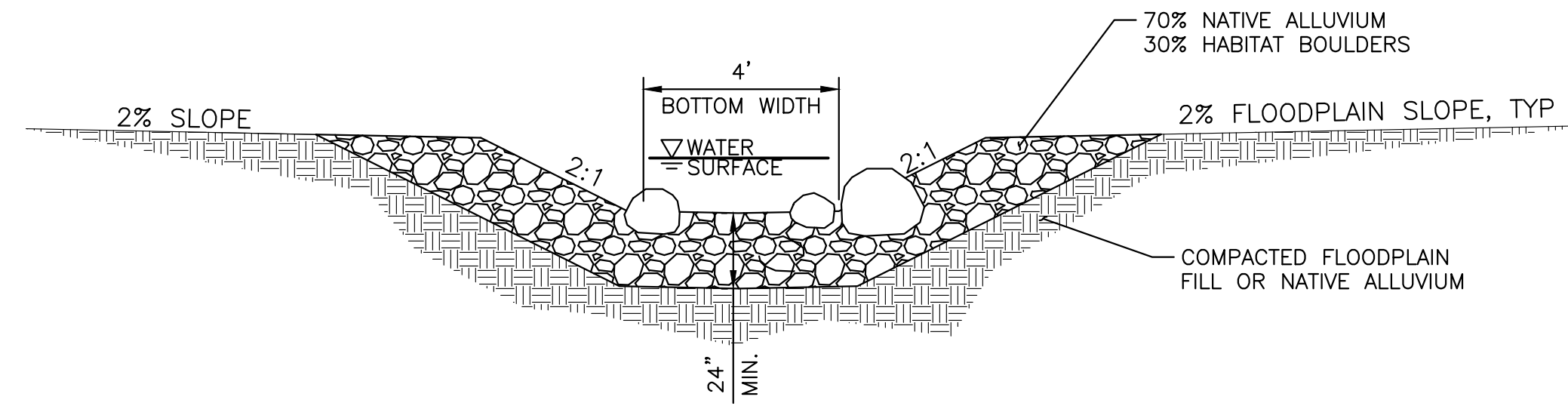
ROCK VANE DETAIL

SCALE: NTS

C901



TYPICAL CHANNEL SECTION STA 28+99.50 - 29+50

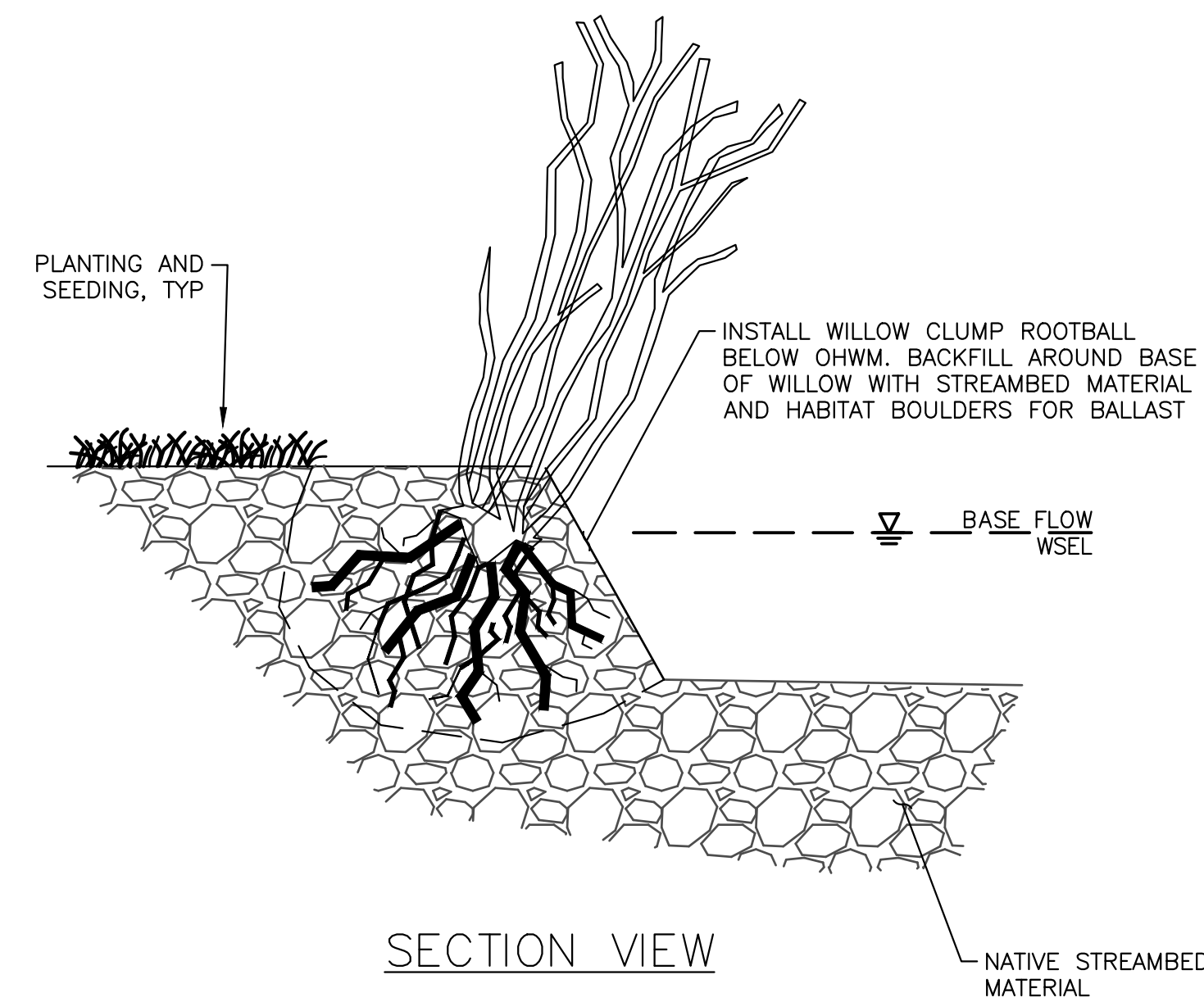


TYPICAL CHANNEL SECTION STA 22+50 - 28+12

TYPICAL CHANNEL SECTIONS

SCALE: NTS

C902



WILLOW CLUMP DETAIL

- NOTES:
- DESIGN INTENT: CREATE EDGE HABITAT AND COVER FOR JUVENILE FISH.
 - THE DESIGN ENGINEER SHALL BE ON SITE DURING PLACEMENT OF THE FIRST HABITAT STRUCTURES. PROVIDE MINIMUM 10 DAYS NOTICE TO ENGINEER PRIOR TO PLACEMENT.
 - CONTRACTOR SHALL MAKE BEST EFFORT TO RETAIN ROOTBALL WITH SOIL CLUMP ATTACHED DURING HARVEST OF WILLOWS. SIMILAR CARE SHALL BE TAKEN TO PRESERVE ROOTBALL DURING PLACEMENT OF WILLOWS.

WILLOW CLUMP DETAIL

SCALE: NTS

C903

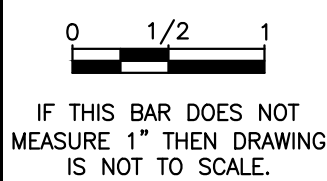
GRADATION NOTES:

- NATIVE ALLUVIUM AND FLOODPLAIN FILL SHALL BE EXCAVATED FROM ADJACENT EMBANKMENTS AS SHOWN IN GRADING PLANS.
- NATIVE ALLUVIUM USED FOR CHANNEL FORMATION SHALL BE CLEAN SANDS, GRAVELS, AND COBBLES FREE OF ORGANIC DEBRIS.
- HABITAT BOULDERS SHALL BE OBTAINED FROM EXIST STOCKPILE AT THE WEST (DOWNSTREAM) END OF THE PROJECT AREA.
- FLOODPLAIN FILL MAY COMPRISE MULTIPLE SOIL TYPES. SEE SPECIFICATION SECTION 31 00 00 - EARTHWORK.

WILLOW CLUMP DETAIL

SCALE: NTS

WARNING



TROUT UNLIMITED

NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT

CIVIL STANDARD DETAILS 2

DESIGNED J. WOODBURY

DRAWN J. LAHMOM

CHECKED N. KRAUS

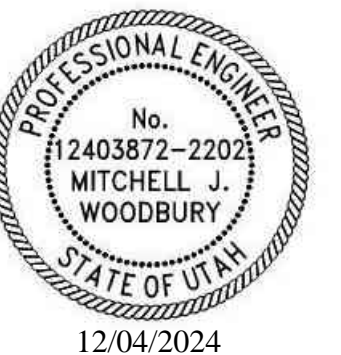
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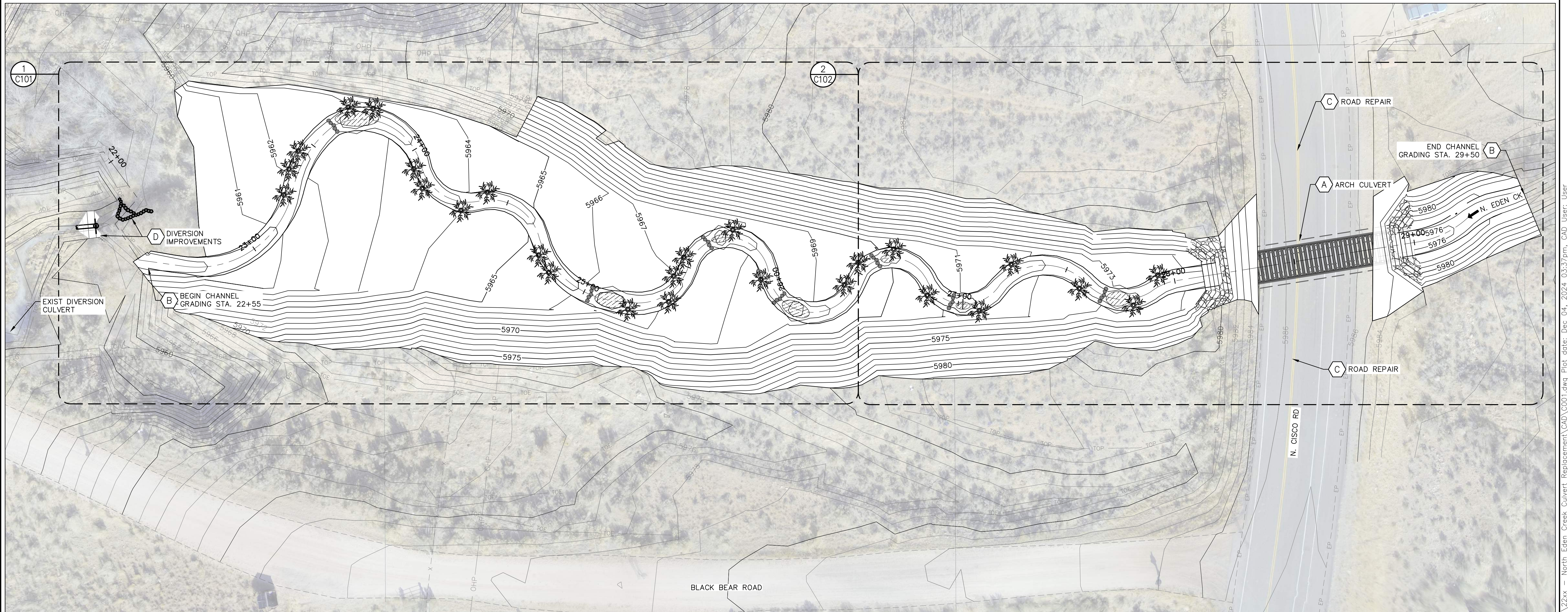
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GC002

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12/04/2024

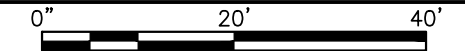


SHEET NOTES:

- CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY MEASURES REQUIRED FOR CONSTRUCTION OF THE KEY PROJECT ELEMENTS INCLUDING, BUT NOT LIMITED TO, DEWATERING MEASURES, ESC MEASURES, TEMPORARY TRAFFIC CONTROLS, AND PROJECT SIGNAGE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVAL OF ALL TEMPORARY MEASURES AND REHABILITATION OF THE SITE PRE-PROJECT CONDITIONS.
- CONTRACTOR SHALL COORDINATE WITH ENGINEER ON HARVEST OF WILLOW CLUMPS FOR REVEGETATION. ALL WOODY VEGETATION NOT IDENTIFIED FOR REPLANTING SHALL BE MULCHED AND SPREAD ACROSS FLOODPLAIN FINISHED GRADING.
- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESEEDED UNLESS OTHERWISE NOTED.

OVERALL SITE PLAN

SCALE: 1" = 20'



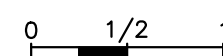
SHEET KEY NOTES:

- A CMP ARCH CULVERT: INSTALL 86'-6" LONG BY 12'-0" SPAN BY 6'-3" RISE SINGLE RADIUS MULTI-PLATE ARCH CULVERT WITH CONCRETE FOOTINGS. THE CMP ARCH CULVERT SHALL BE MANUFACTURED BY CONTECH, OR EQUAL, AND MEET HL-93 LOADING REQUIREMENTS. OPEN BOTTOM ARCH CULVERT INSTALLATION SHALL INCLUDE ROUGHENED CHANNEL GRADING AND RIPRAP SCOUR PROTECTION.
- B CHANNEL AND FLOODPLAIN IMPROVEMENTS: REGRADE ~600 FEET OF NORTH EDEN CREEK FLOODPLAIN AND 695 FEET OF STREAM CHANNEL. THE WORK INCLUDES IMPORTING FLOODPLAIN FILL TO RAISE THE FLOODPLAIN, REALIGNING NORTH EDEN CREEK CHANNEL, INSTALLATION OF STREAM CHANNEL HABITAT FEATURES INCLUDING POOLS, ROCK VANES, AND RIPARIAN PLANTINGS. THE CONTRACTOR SHALL SOURCE MATERIAL (EMBANKMENT FILL, RIPRAP, STREAMBED MATERIAL) FROM ADJACENT PROPERTY OWNERS WITHIN NORTH EDEN CREEK DRAINAGE. SUITABLE BORROW SOURCES ON PRIVATE PROPERTY SHALL BE IDENTIFIED AND APPROVED FOR USE WITH THE EXPRESS PERMISSION OF THE LANDOWNER(S) AND OWNER'S REPRESENTATIVE.
- C RESTORE NORTH CISCO ASPHALT ROAD TO PRE-PROJECT CONDITIONS. ROAD REPAIR SHALL MATCH ORIGINAL ROAD DESIGN (SEE TYPICAL DETAIL C900). EXTENT OF ROAD REPAIR SHOWN MAY VARY DEPENDING ON SITE SOIL CONDITIONS AND CONTRACTOR'S APPROACH TO EXCAVATION AND SHORING. SEE TYPICAL DETAIL FOR NOTES ON TIMEFRAME FOR PAVING AND CHIP SEALING.
- D INSTALL DIVERSION IMPROVEMENTS TO MAINTAIN FLOW TO EXIST POD. DIVERSION IMPROVEMENTS SHALL BE COORDINATED WITH IRRIGATOR AND MAY INCLUDE A ROCK VANE DIVERSION STRUCTURE AND/OR LOCALLY FABRICATED STOPLOG HEADGATE.



12/04/2024

WARNING



IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED

NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT

OVERALL SITE PLAN

DESIGNED J. WOODBURY

DRAWN J. LAHMOM

CHECKED N. KRAUS

ISSUED DATE 12/4/2024



DRAWING

C001

SCALE: AS NOTED

| REV | DATE | BY | DESCRIPTION |
|-----|----------|-----|---|
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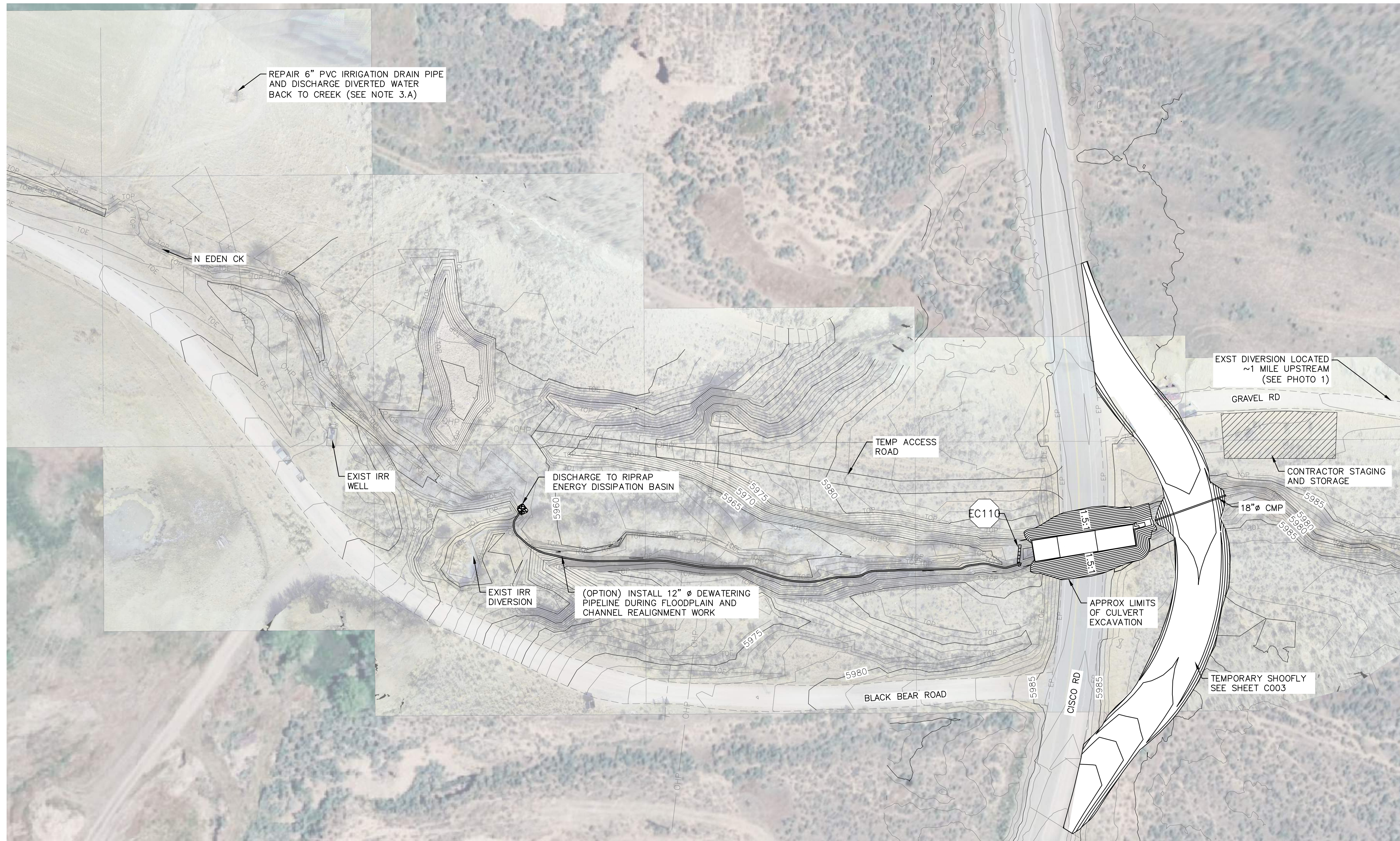


PHOTO 1 EXISTING DIVERSION

SCALE: NTS

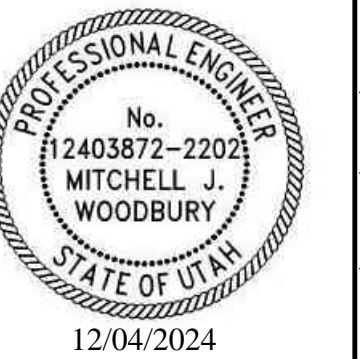
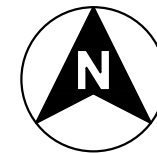
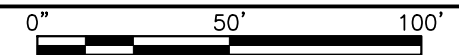
1

SHEET NOTES:

1. STREAM FLOW DURING PROPOSED CONSTRUCTION PERIOD IS TYPICALLY < 1 CFS.
2. CONTRACTOR SHALL COORDINATE WITH LANDOWNER ON DEWATERING STREAM THROUGH EXISTING IRRIGATION DIVERSION STRUCTURE LOCATED ~1 MI UPSTREAM OF SITE.
3. DEWATERING OPTIONS MAY INCLUDE:
 - A. DIVERTING STREAM THROUGH EXISTING IRRIGATION DIVERSION STRUCTURE (SEE PHOTO 1). THIS OPTION REDUCES DEWATERING MEASURES REQUIRED THROUGH THE PROJECT AREA. WATER DIVERTED THROUGH THE IRRIGATION SYSTEM WILL BE DISCHARGED THROUGH RETURN PIPE BACK TO NORTH EDEN CREEK BELOW WORK AREA. REPAIR OF EXISTING RETURN PIPE MAY BE REQUIRED.
 - B. INSTALLATION OF TEMPORARY DEWATERING PIPE AND/OR TEMPORARY CREEK REALIGNMENT TO SOUTH SIDE OF THE FLOODPLAIN. THIS OPTION REQUIRES ADDITIONAL DEWATERING MEASURES, TURBIDITY CONTROL, AND MAINTENANCE.
4. DEWATERING OPTIONS WILL BE DISCUSSED WITH IRRIGATORS AND LANDOWNERS DURING PRE-BID MEETING.
5. REGARDLESS OF DEWATERING APPROACH, CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPMENT AND MAINTENANCE OF DEWATERING MEASURES AS REQUIRED FOR THE COMPLETION OF THE WORK.
6. DISCHARGE FROM ALL DEWATERING MEASURES SHALL BE IN COMPLIANCE WITH THE MOST STRINGENT OF LOCAL, STATE, AND FEDERAL DISCHARGE REQUIREMENTS.
7. CONTRACTOR SHALL LOCATE ALL UTILITIES WITHIN THE PROJECT AREA PRIOR TO START OF EARTHWORK AND EXCAVATIONS.
8. TEMPORARY ACCESS ROAD TO BE DEVELOPED BY CONTRACTOR. CONTRACTOR SHALL NOT ACCESS OR DISTURB PROPERTY IMMEDIATELY NORTH OF THE TEMPORARY ACCESS ROAD. PROPERTY BOUNDARY SHALL BE STAKED AND CLEARLY MARKED IN THE VICINITY OF THE WORK TO INSURE NO DISTURBANCE OCCURS TO THE PROPERTY DURING COMPLETION OF THE WORK.
9. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO START OF EARTHWORK AND EXCAVATIONS. UTILITY LOCATE AND SUPPORT SERVICES INCLUDE:
 - 9.1. CALL 811 BEFORE YOU DIG.
 - 9.2. ROCKY MOUNTAIN POWER BUILDER SERVICE LINE: 1-800-469-3981

EXCAVATION AND DEWATERING PLAN

SCALE: 1" = 50'



| REV | DATE | BY | DESCRIPTION |
|-----|----------|-----|---|
| F | 12/4/24 | MJW | REISSUED FOR CONSTRUCTION |
| E | 11/8/24 | MJW | ISSUED FOR CONSTRUCTION |
| D | 12/22/23 | MJW | 60% DRAFT SUBMITTAL |
| C | 08/13/23 | MJW | 30% DESIGN REVIEW SUBMITTAL |
| B | 02/11/22 | MJW | CONCEPTUAL DESIGN ALTERNATIVES RE-SUBMITTAL |
| A | 11/15/21 | MJW | CONCEPTUAL DESIGN ALTERNATIVES SUBMITTAL |

WARNING
 0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



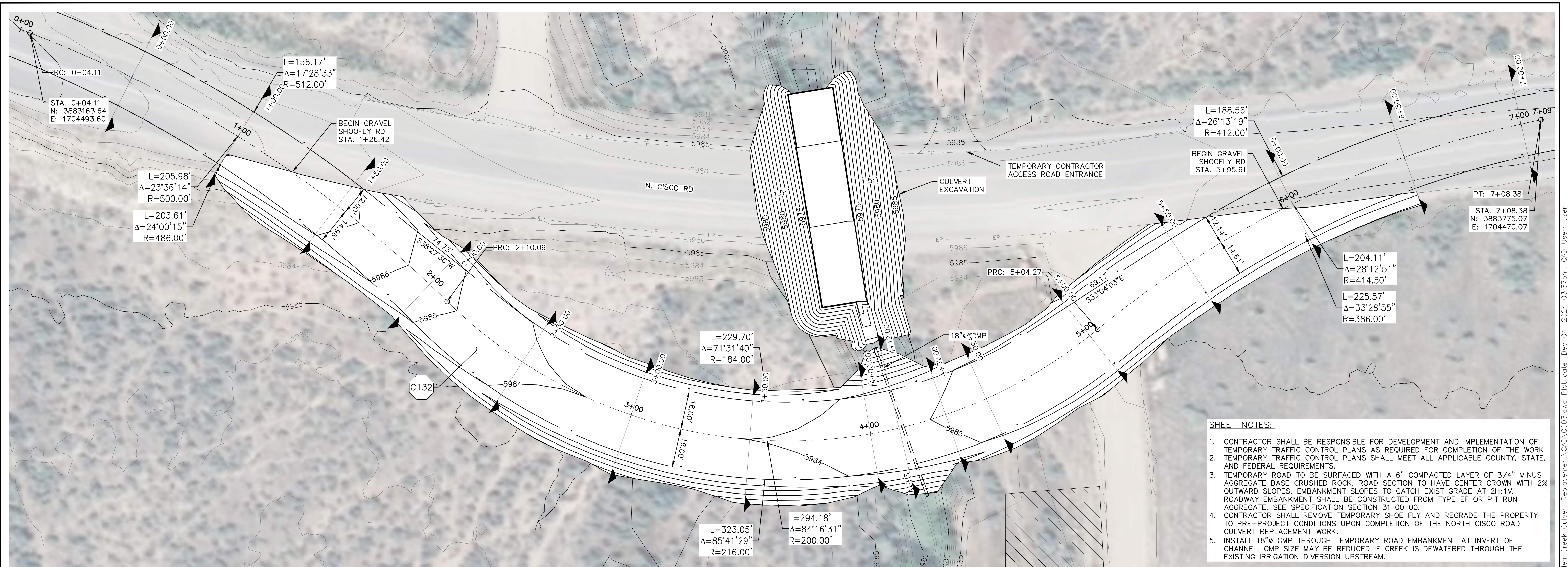
TROUT UNLIMITED
 NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT
 EXCAVATION, DEWATERING, AND
 TEMPORARY SHOOFLY PLAN

DESIGNED J. WOODBURY
 DRAWN J. LAHMON
 CHECKED N. KRAUS
 ISSUED DATE 12/4/2024



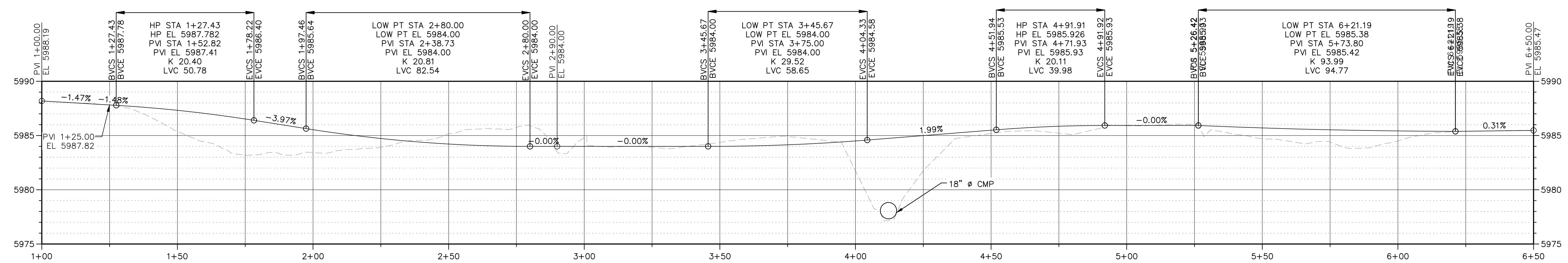
DRAWING
C002
 SCALE: AS NOTED

Path: C:\Users\User\QRS Consulting\QRS Projects - Documents\TU\22xx - North Eden Creek Culvert Replacement\CAD\C002.dwg Plot date: Dec 04, 2024 03:37pm, CAD User: User



- SHEET NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPMENT AND IMPLEMENTATION OF TEMPORARY TRAFFIC CONTROL PLANS AS REQUIRED FOR COMPLETION OF THE WORK.
 - TEMPORARY TRAFFIC CONTROL PLANS SHALL MEET ALL APPLICABLE COUNTY, STATE, AND FEDERAL REQUIREMENTS.
 - TEMPORARY ROAD TO BE SURFACED WITH A 6" COMPACTED LAYER OF 3/4" MINUS AGGREGATE BASE CRUSHED ROCK. ROAD SECTION TO HAVE CENTER CROWN WITH 2% OUTWARD SLOPES. EMBANKMENT SLOPES TO CATCH EXIST GRADE AT 2H:1V. ROADWAY EMBANKMENT SHALL BE CONSTRUCTED FROM TYPE EF OR PIT RUN AGGREGATE. SEE SPECIFICATION SECTION 31 00 00.
 - CONTRACTOR SHALL REMOVE TEMPORARY SHOOFLY AND REGRADE THE PROPERTY TO PRE-PROJECT CONDITIONS UPON COMPLETION OF THE NORTH CISCO ROAD CULVERT REPLACEMENT WORK.
 - INSTALL 18" CMP THROUGH TEMPORARY ROAD EMBANKMENT AT INVERT OF CHANNEL. CMP SIZE MAY BE REDUCED IF CREEK IS DEWATERED THROUGH THE EXISTING IRRIGATION DIVERSION UPSTREAM.

EXCAVATION AND TEMPORARY SHOOFLY PLAN
SCALE: 1" = 20'



TEMPORARY SHOOFLY PROFILE
SCALE: HORIZ 1" = 20'
VERT 1" = 5'



| REV | DATE | BY | DESCRIPTION |
|-----|----------|-----|---|
| F | 12/4/24 | MJW | REISSUED FOR CONSTRUCTION |
| E | 11/8/24 | MJW | ISSUED FOR CONSTRUCTION |
| D | 12/22/23 | MJW | 60% DRAFT SUBMITTAL |
| C | 08/13/23 | MJW | 30% DESIGN REVIEW SUBMITTAL |
| B | 02/11/22 | MJW | CONCEPTUAL DESIGN ALTERNATIVES RE-SUBMITTAL |
| A | 11/15/21 | MJW | CONCEPTUAL DESIGN ALTERNATIVES SUBMITTAL |

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED
NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT

TEMP SHOOFLY PLAN AND PROFILE

DESIGNED J. WOODBURY
DRAWN J. LAHMOM
CHECKED N. KRAUS
ISSUED DATE 12/4/2024

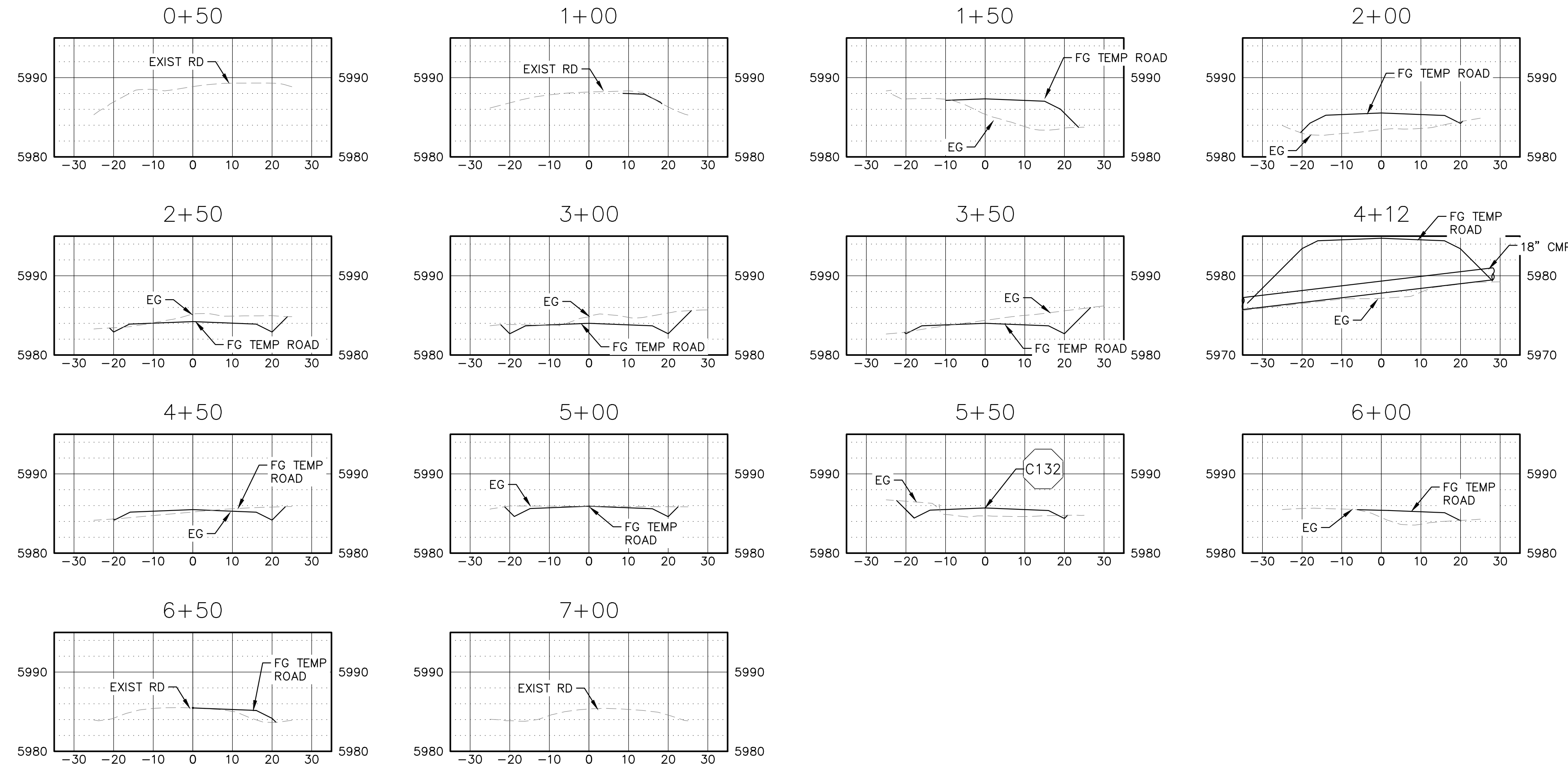


DRAWING
C003
SCALE: AS NOTED

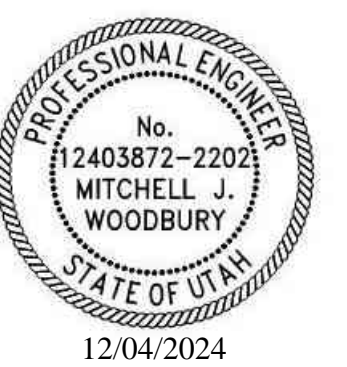
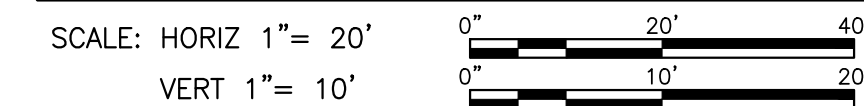
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SHEET NOTES:

1. TEMPORARY SHOOFLY ROAD TO BE SURFACED WITH 6" OF ¾" MINUS AGGREGATE BASE COURSE.
2. CONTRACTOR TO INSTALL 18" CMP CULVERT THROUGH ROAD EMBANKMENT AT SHOOFLY CROSSING OF NORTH EDEN CREEK. CMP TO BE INSTALLED ALONG INVERT OF EXIST CHANNEL.
3. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND IMPLEMENTING THE TEMPORARY TRAFFIC CONTROL PLAN. TEMPORARY TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTATION.
4. CONTRACTOR SHALL RESTORE THE EXISTING PROPERTY TO PRE-PROJECT CONDITIONS, OR PER THE LANDOWNERS DIRECTION, WHERE THE PROPERTY HAS BEEN DISTURBED BY PERFORMANCE OF THE WORK.



TEMPORARY SHOOFLY SECTIONS



| REV | DATE | BY | DESCRIPTION |
|-----|----------|-----|---|
| F | 12/4/24 | MJW | REISSUED FOR CONSTRUCTION |
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| A | 11/15/21 | MJW | CONCEPTUAL DESIGN ALTERNATIVES SUBMITTAL |

WARNING

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TROUT UNLIMITED

NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT

TEMP SHOOFLY SECTIONS

DESIGNED J. WOODBURY

DRAWN J. LAHMON

CHECKED N. KRAUS

ISSUED DATE 12/4/2024

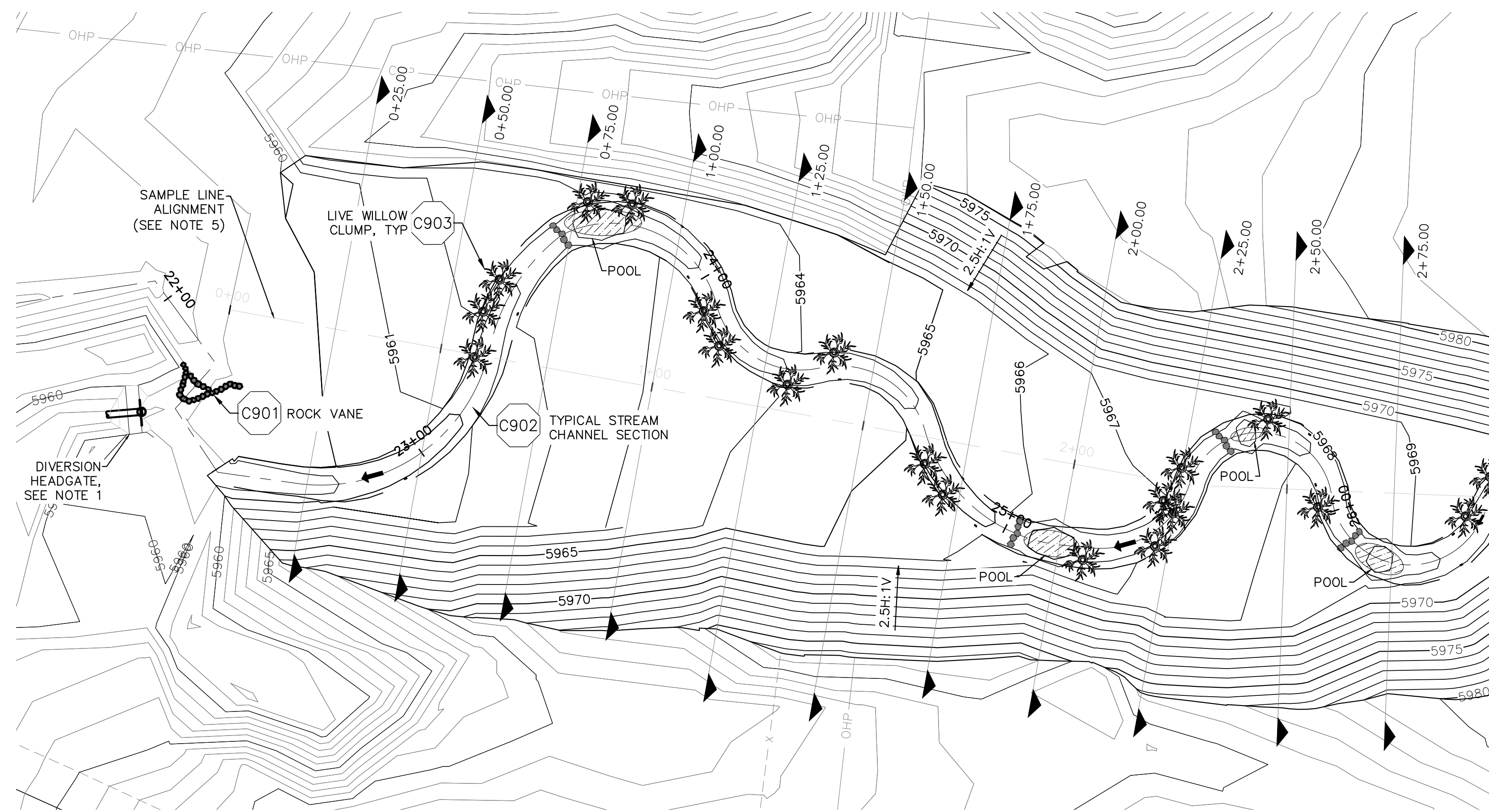


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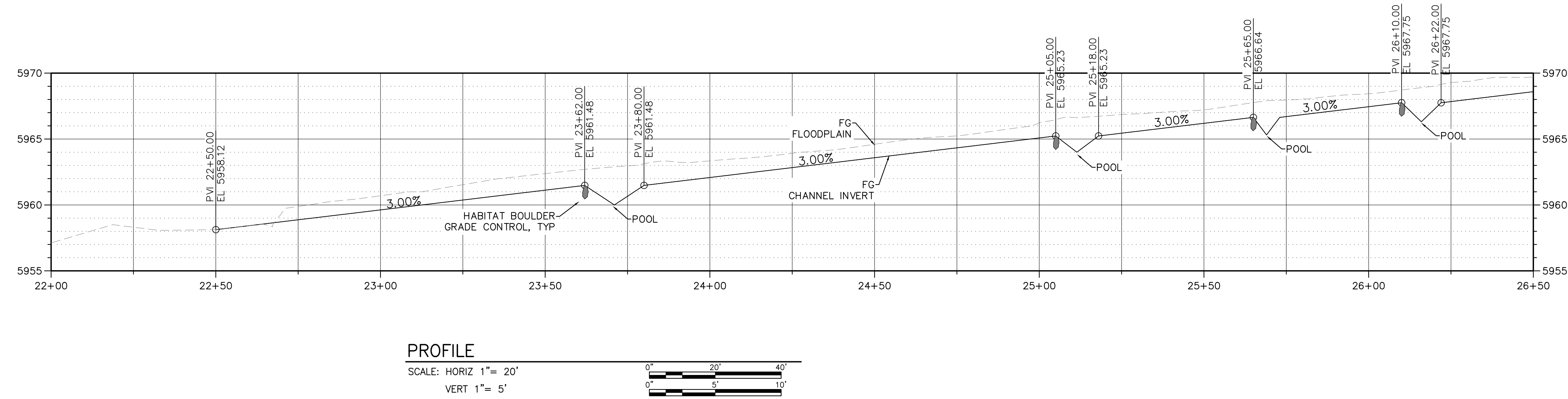
C004

SCALE: AS NOTED

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- SHEET NOTES:
- DIVERSION IMPROVEMENTS, INCLUDING HEADGATE AND ROCK VANE STRUCTURE SHOWN, ARE OPTIONAL WORK ITEMS TO BE NEGOTIATED AND APPROVED BY IRRIGATOR AND OWNER (TU). ENGINEER TO PROVIDE ADDITIONAL DESIGN DETAILS UPON AGREEMENT ON SCOPE OF DIVERSION IMPROVEMENTS.
 - LIVE WILLOW CLUMPS SHALL BE HARVESTED ON SITE AS PART OF CLEARING AND GRUBBING EFFORT. THE QUANTITY AND LOCATION OF WILLOW CLUMP INSTALLATIONS MAY VARY DEPENDING ON QUANTITY AND CONDITION OF EXISTING WILLOW STAND. CONTRACTOR SHALL COORDINATE WITH ENGINEER ON WILLOW CLUMP HARVEST.
 - WILLOW CLUMPS HARVESTED FOR PLANTINGS SHALL BE STORED ON-SITE AND WATERED DAILY BY CONTRACTOR UNTIL REPLANTED.
 - CONTRACTOR SHALL CONSTRUCT A FIRM, STABLE, AND VOID FREE STREAMBED TO ENSURE WATER FLOWS ABOVE GRADE IN CHANNEL. CONTRACTOR SHALL PLACE RIPRAP AND STREAMBED MATERIAL IN LAYERS AND ELIMINATE VOIDS BY MEANS OF MIXING, JETTING, OR FLOODING CHANNEL TO ALLOW VOID SPACES TO BE FILLED WITH SEDIMENT. PROCESS MAY BE REPEATED AS NECESSARY UNTIL WATER VISIBILITY FLOWS ABOVE GRADE.
 - SAMPLE LINE ALIGNMENT AND SECTIONS PROVIDED FOR CONTRACTOR QUANTITY ESTIMATES.



| REV | DATE | BY | DESCRIPTION |
|-----|----------|-----|---|
| F | 12/4/24 | MJW | REISSUED FOR CONSTRUCTION |
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WARNING

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TROUT UNLIMITED

NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT

STREAM GRADING PLAN AND PROFILE 1

DESIGNED J. WOODBURY

DRAWN J. LAHMOM

CHECKED N. KRAUS

ISSUED DATE 12/4/2024

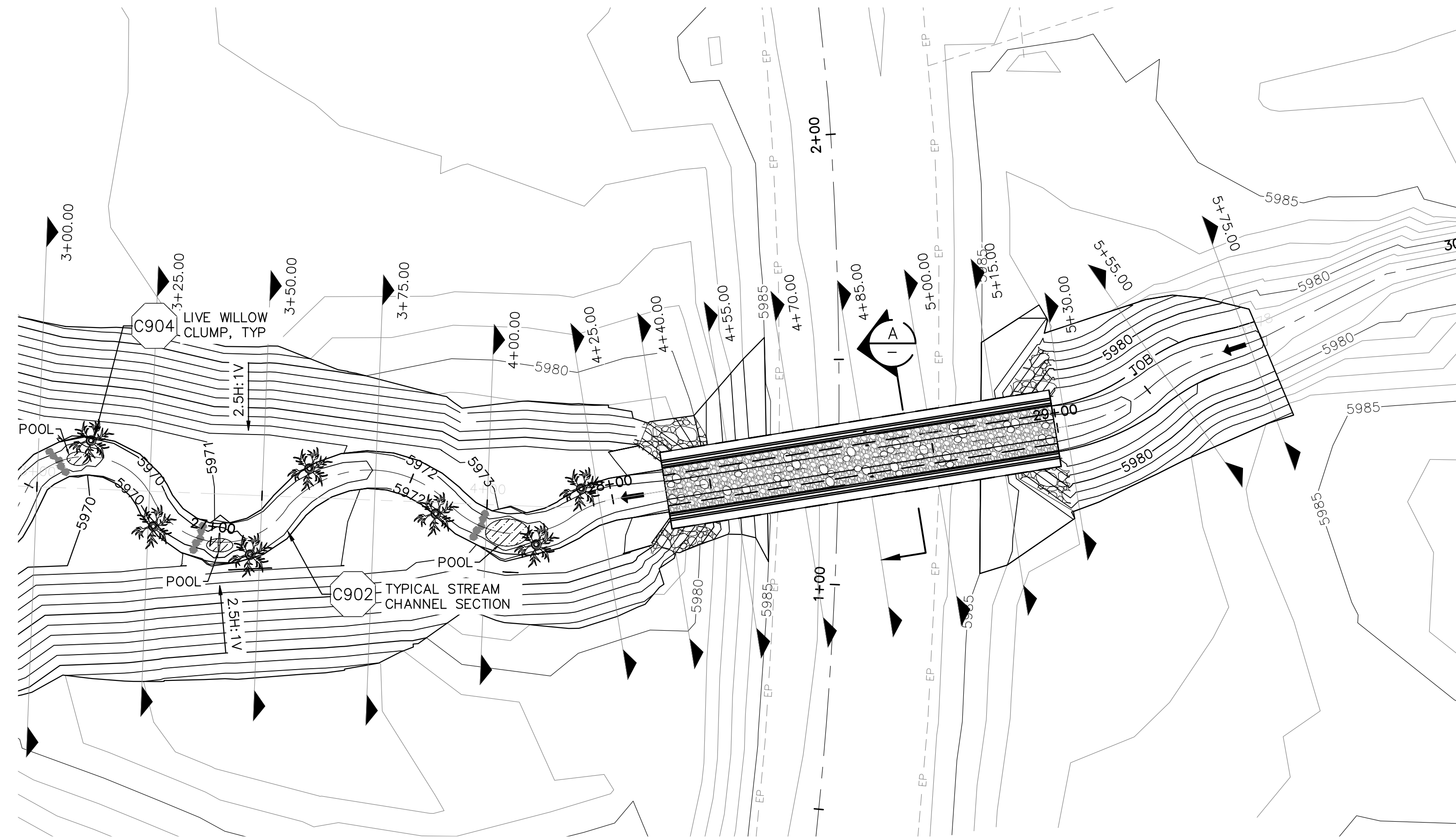


DRAWING

C101

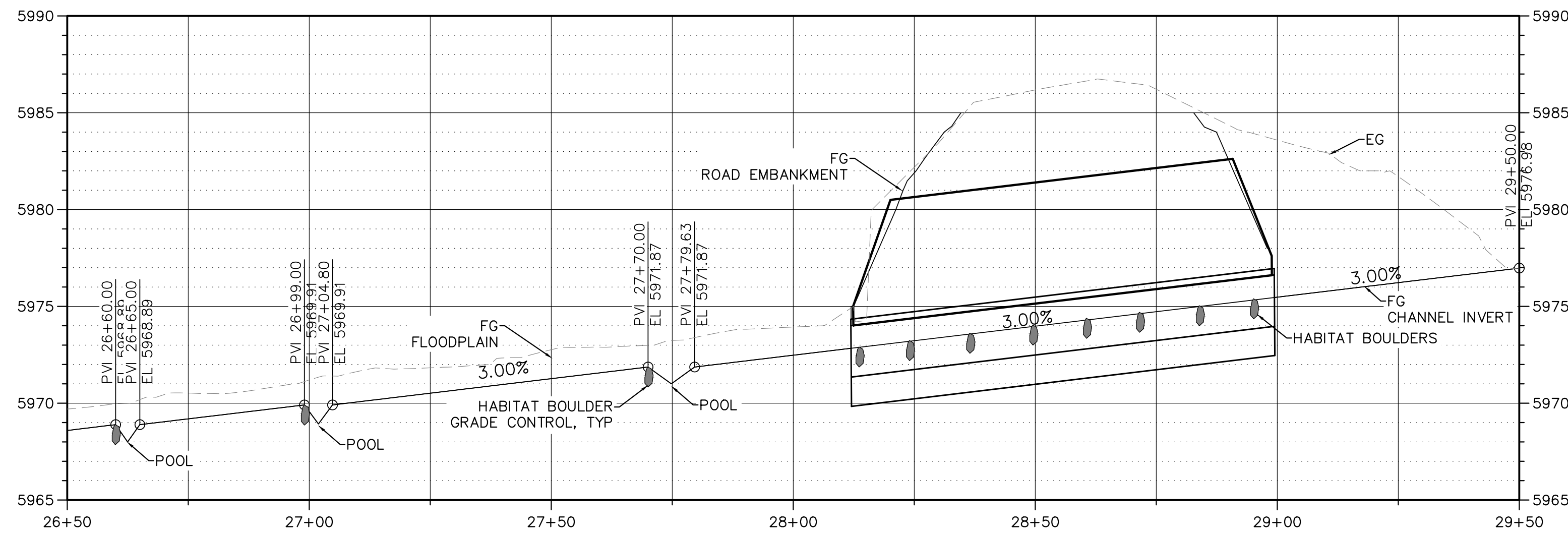
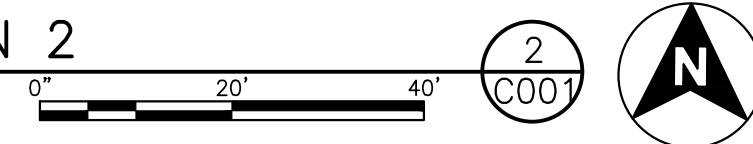
SCALE: AS NOTED

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STREAM GRADING PLAN 2

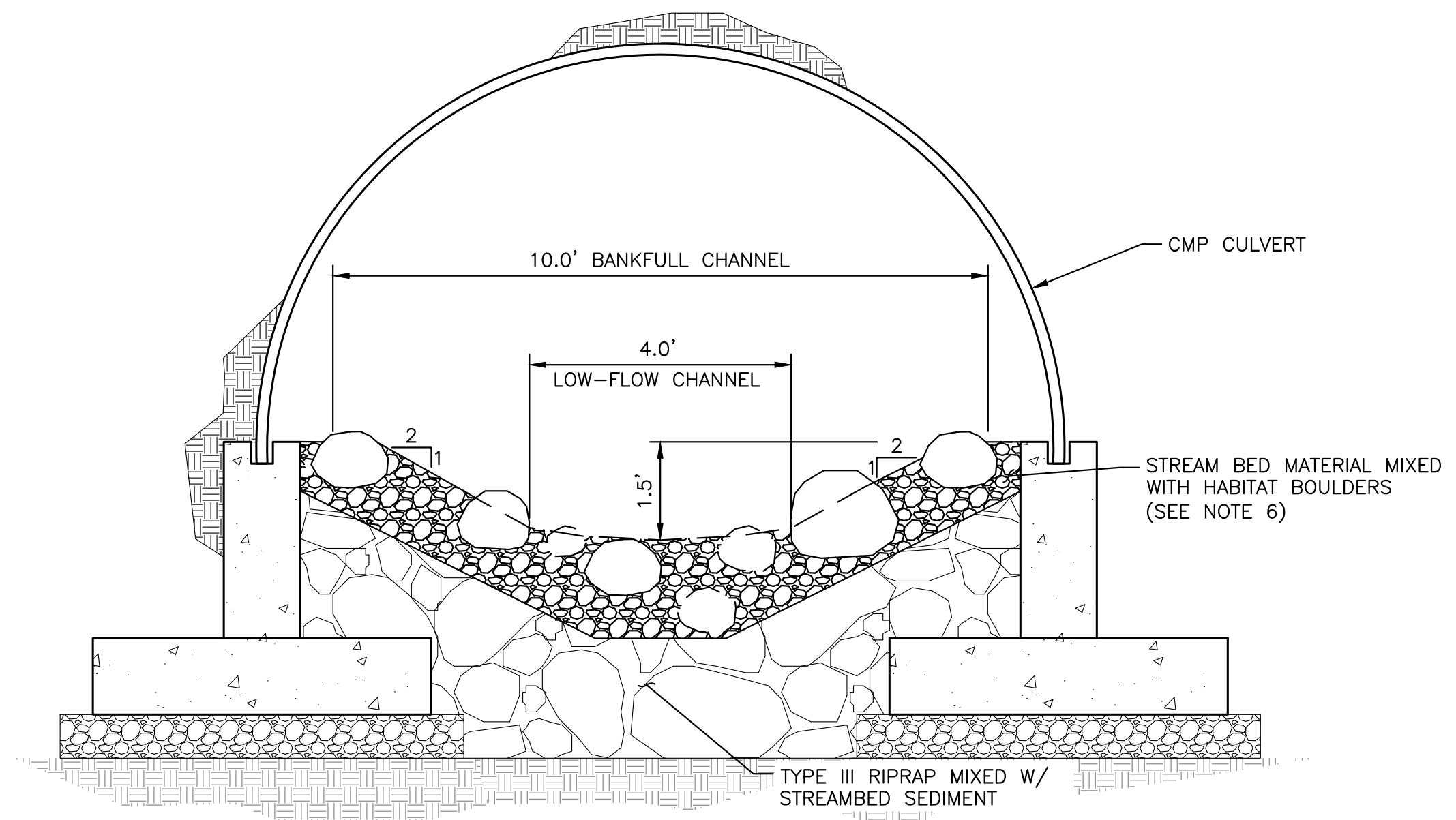
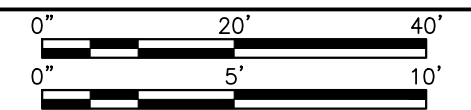
SCALE: 1" = 20'



PROFILE

SCALE: HORIZ 1" = 20'

VERT 1" = 5'



CULVERT CHANNEL SECTION

SCALE: 1" = 2'

SHEET NOTES:

- DIVERSION IMPROVEMENTS, INCLUDING HEADGATE AND ROCK VANE STRUCTURE SHOWN, ARE OPTIONAL WORK ITEMS TO BE NEGOTIATED AND APPROVED BY IRRIGATOR AND OWNER (TU). ENGINEER TO PROVIDE ADDITIONAL DESIGN DETAILS UPON AGREEMENT ON SCOPE OF DIVERSION IMPROVEMENTS.
- LIVE WILLOW CLUMPS SHALL BE HARVESTED ON SITE AS PART OF CLEARING AND GRUBBING EFFORT. THE QUANTITY AND LOCATION OF WILLOW CLUMP INSTALLATIONS MAY VARY DEPENDING ON QUANTITY AND CONDITION OF EXISTING WILLOW STAND. CONTRACTOR SHALL COORDINATE WITH ENGINEER ON WILLOW CLUMP HARVEST.
- WILLOW CLUMPS HARVESTED FOR PLANTINGS SHALL BE STORED ON-SITE AND WATERED DAILY BY CONTRACTOR UNTIL REPLANTED.
- CONTRACTOR SHALL CONSTRUCT A FIRM, STABLE, AND VOID FREE STREAMBED TO ENSURE WATER FLOWS ABOVE GRADE IN CHANNEL. CONTRACTOR SHALL PLACE RIPRAP AND STREAMBED MATERIAL IN LAYERS AND ELIMINATE VOIDS BY MEANS OF MIXING, JETTING, OR FLOODING CHANNEL TO ALLOW VOID SPACES TO BE FILLED WITH SEDIMENT. PROCESS MAY BE REPEATED AS NECESSARY UNTIL WATER VISIBILITY FLOWS ABOVE GRADE.
- HABITAT BOULDERS SHALL BE 12" - 24" DIAMETER SEMI ROUNDED BOULDERS. BOULDERS SHALL BE AT LEAST 50% SUBMERGED IN STREAMBED SEDIMENT MATERIAL AND BE PLACED IN CLUSTERS OF 2 TO 3. PLACEMENT OF BOULDERS WITHIN CULVERT SHALL RESULT IN IRREGULAR FLOW PATH WITHIN LOW-FLOW CHANNEL.

LEGEND:

- FLOW ARROW
- CONTOUR
- ▨ POOL
- 🌿 LIVE WILLOW CLUMPS



12/04/2024

| REV | DATE | BY | DESCRIPTION |
|-----|----------|-----|---|
| F | 12/4/24 | MJW | REISSUED FOR CONSTRUCTION |
| E | 11/8/24 | MJW | ISSUED FOR CONSTRUCTION |
| D | 12/22/23 | MJW | 60% DRAFT SUBMITTAL |
| C | 08/13/23 | MJW | 30% DESIGN REVIEW SUBMITTAL |
| B | 02/11/22 | MJW | CONCEPTUAL DESIGN ALTERNATIVES RE-SUBMITTAL |
| A | 11/15/21 | MJW | CONCEPTUAL DESIGN ALTERNATIVES SUBMITTAL |

WARNING

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NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT

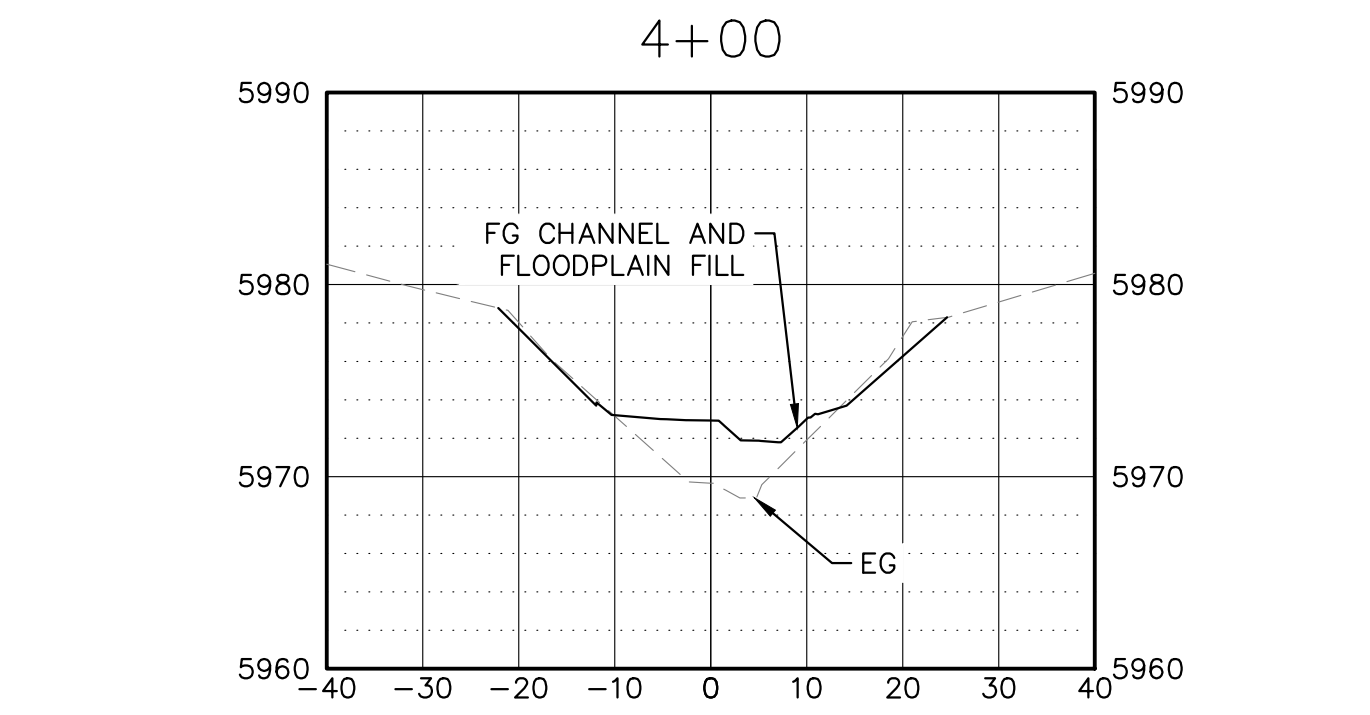
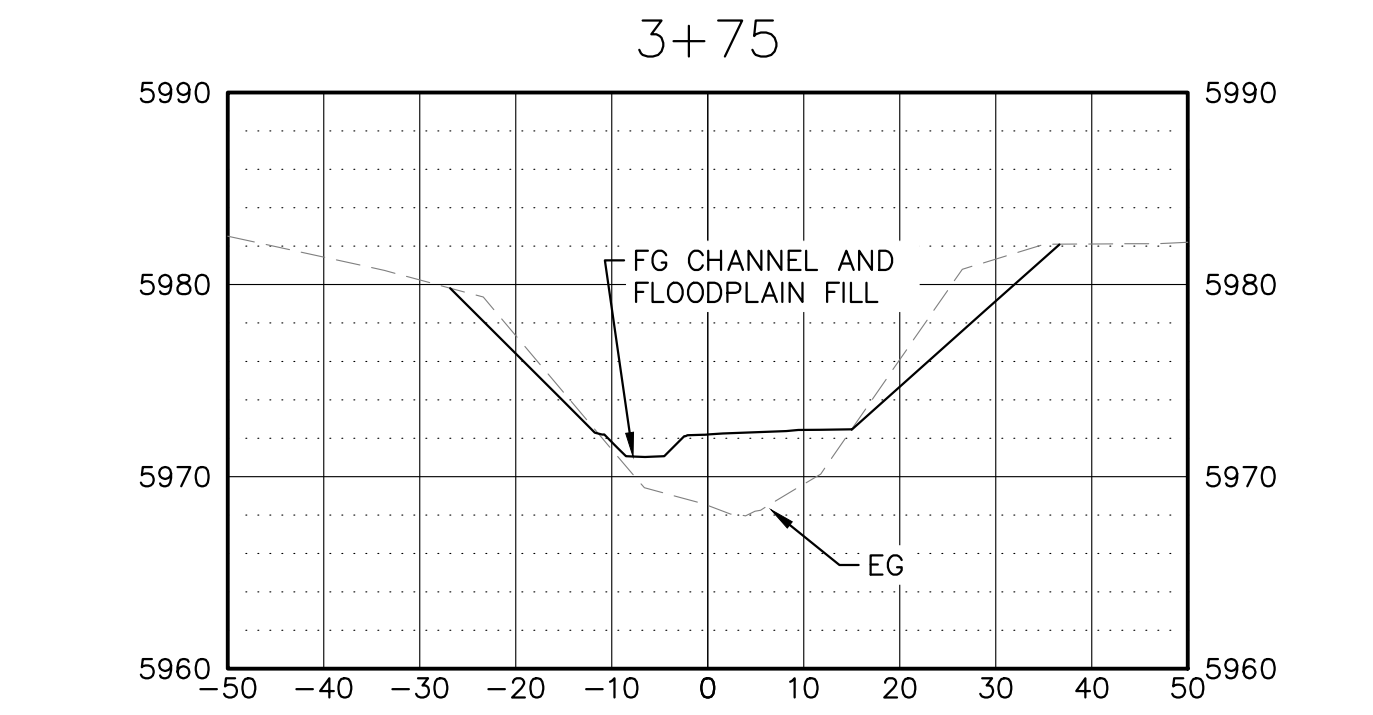
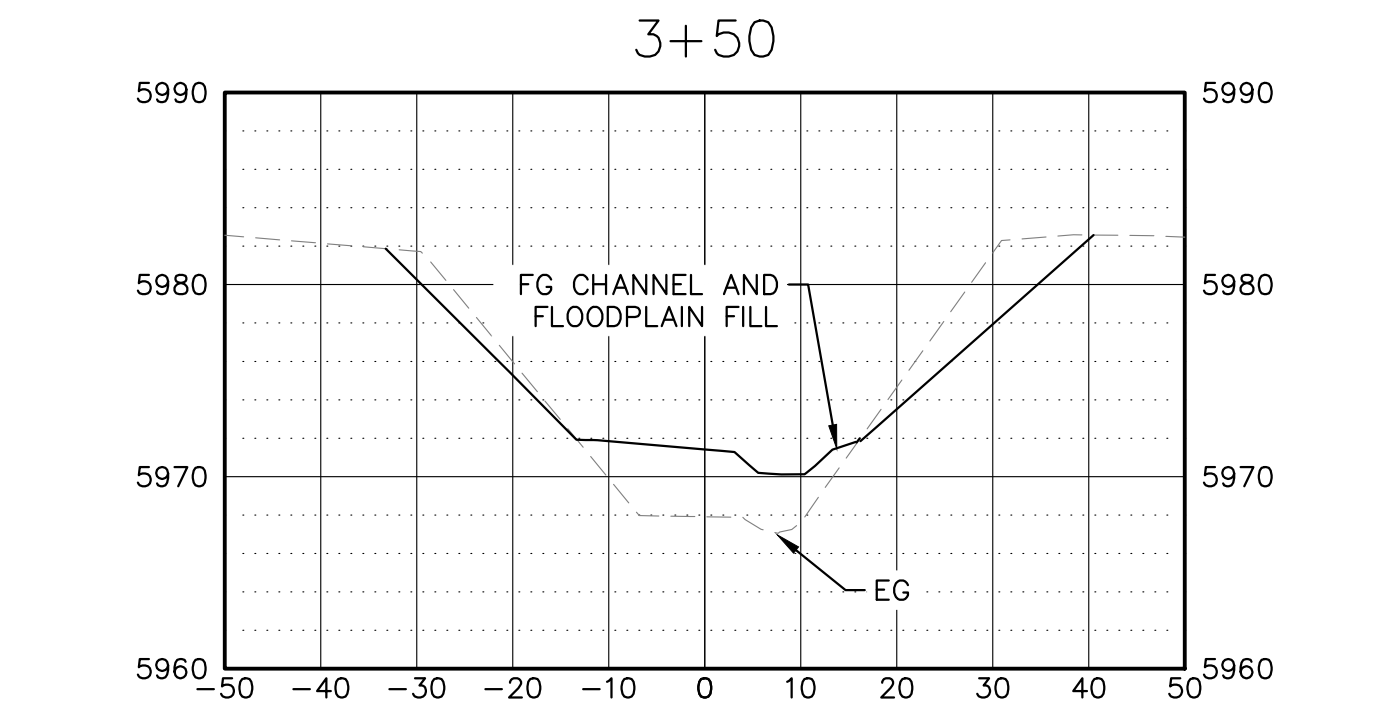
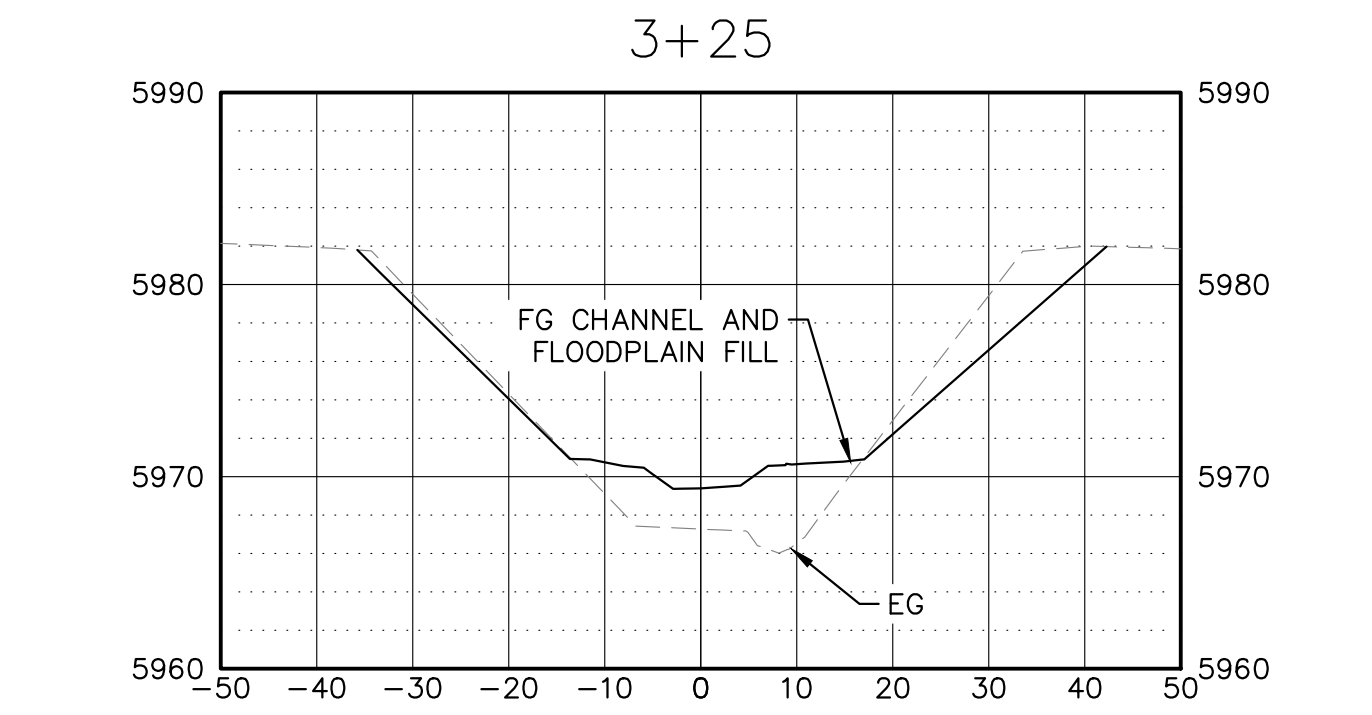
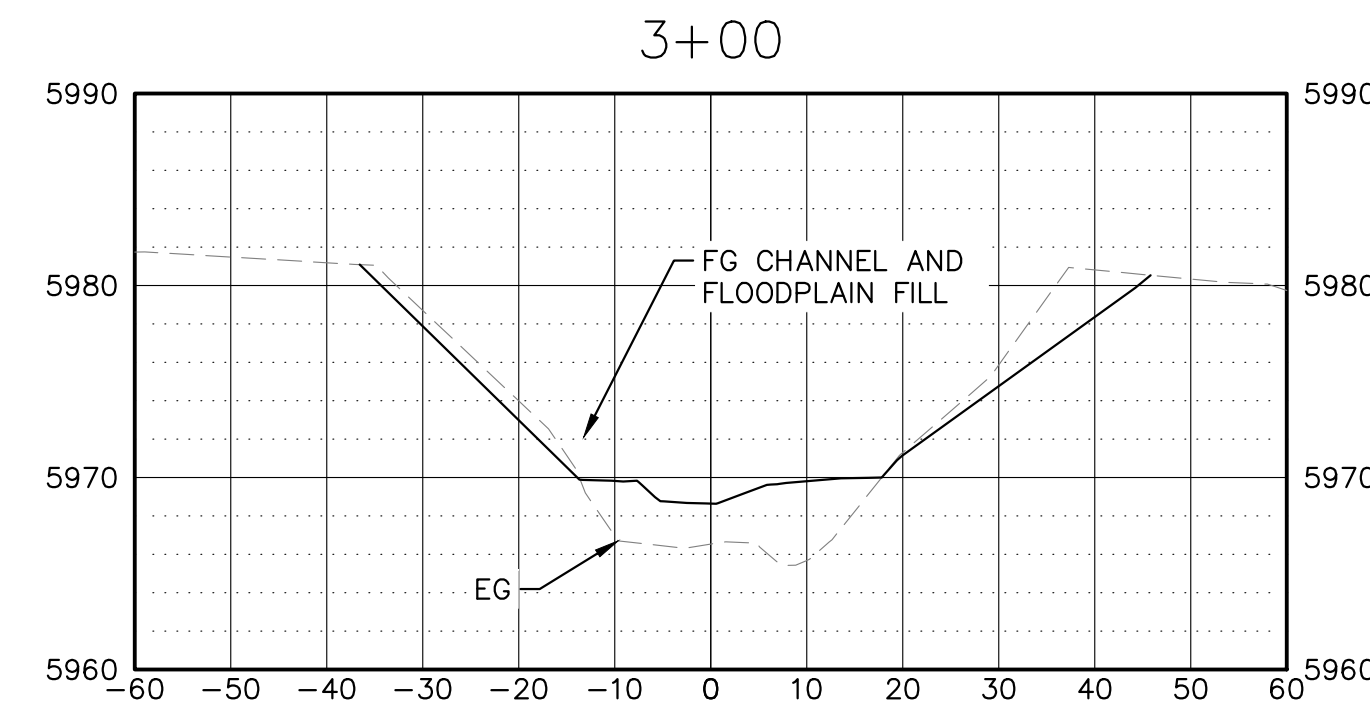
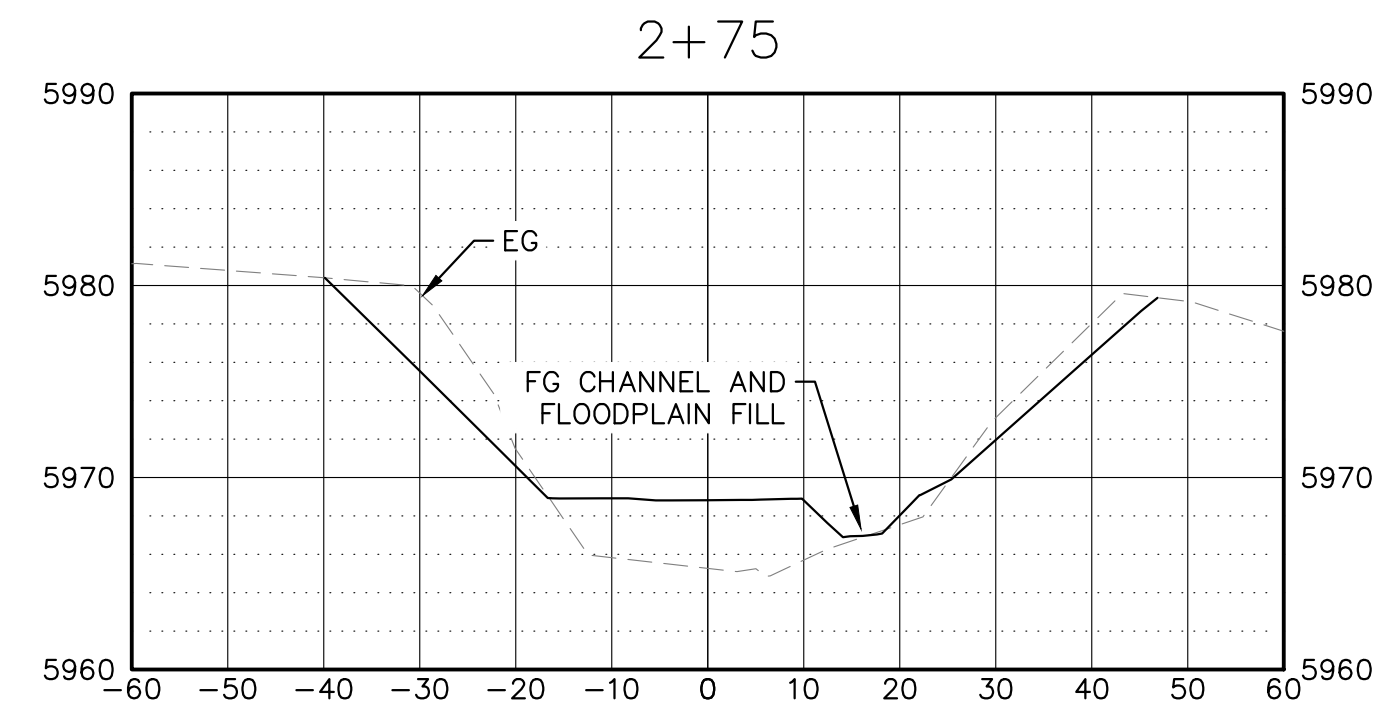
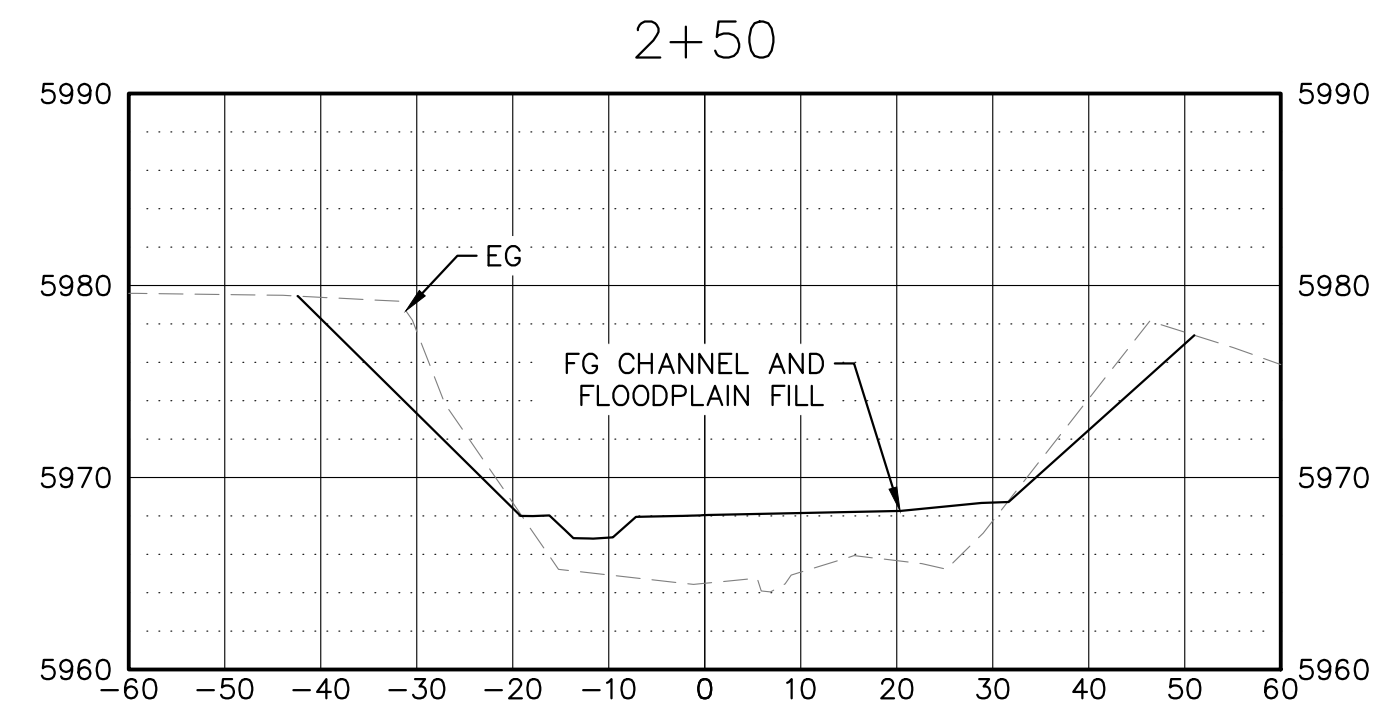
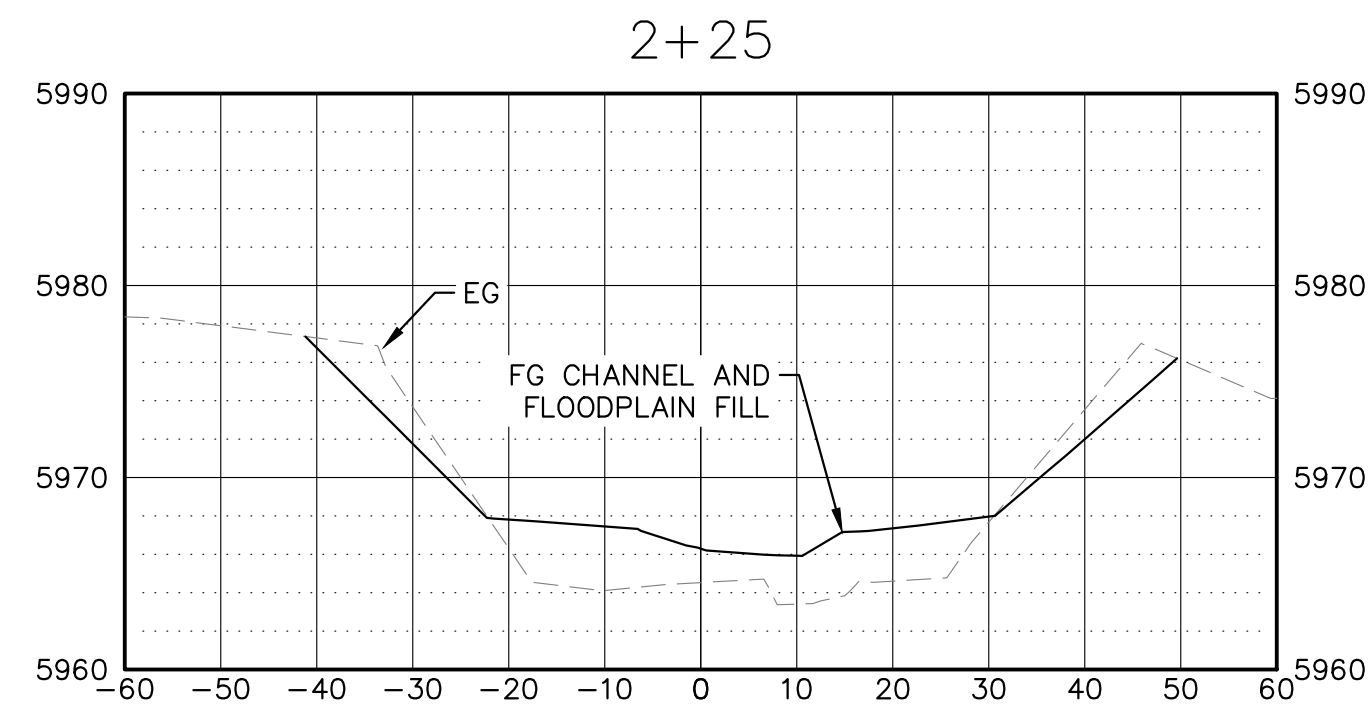
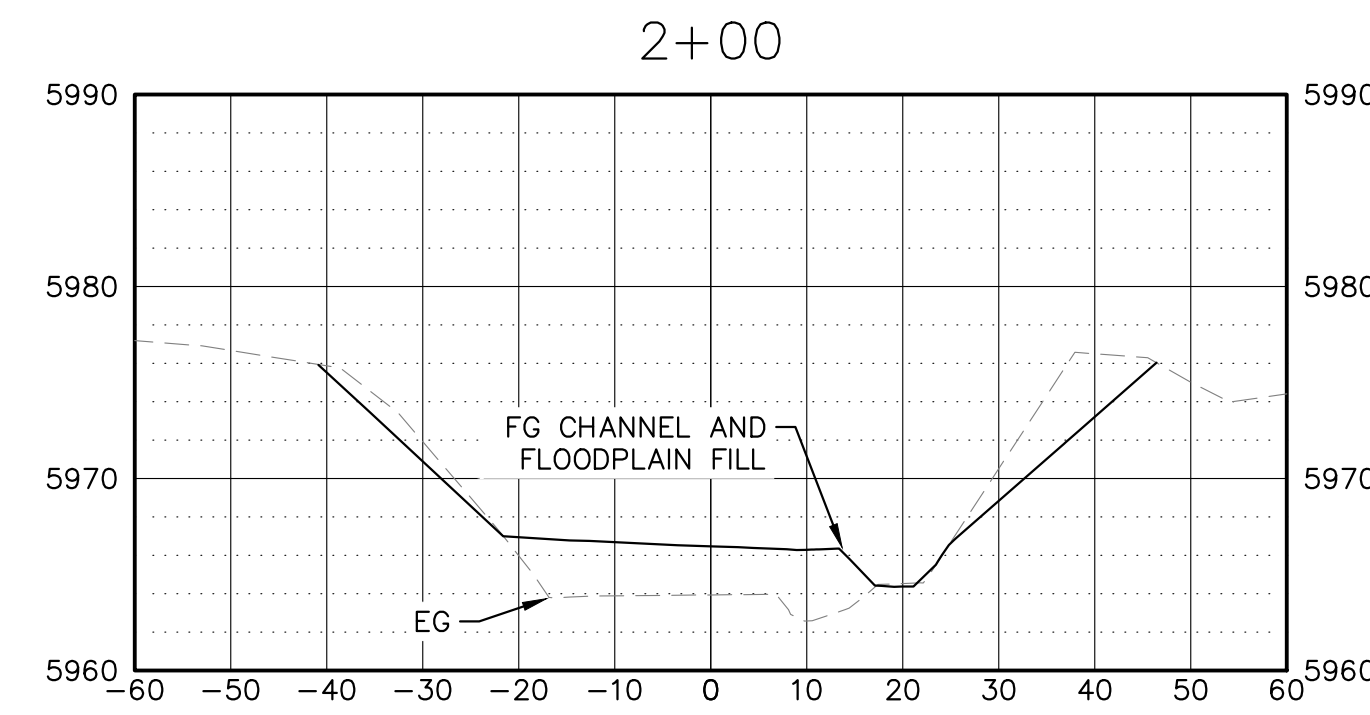
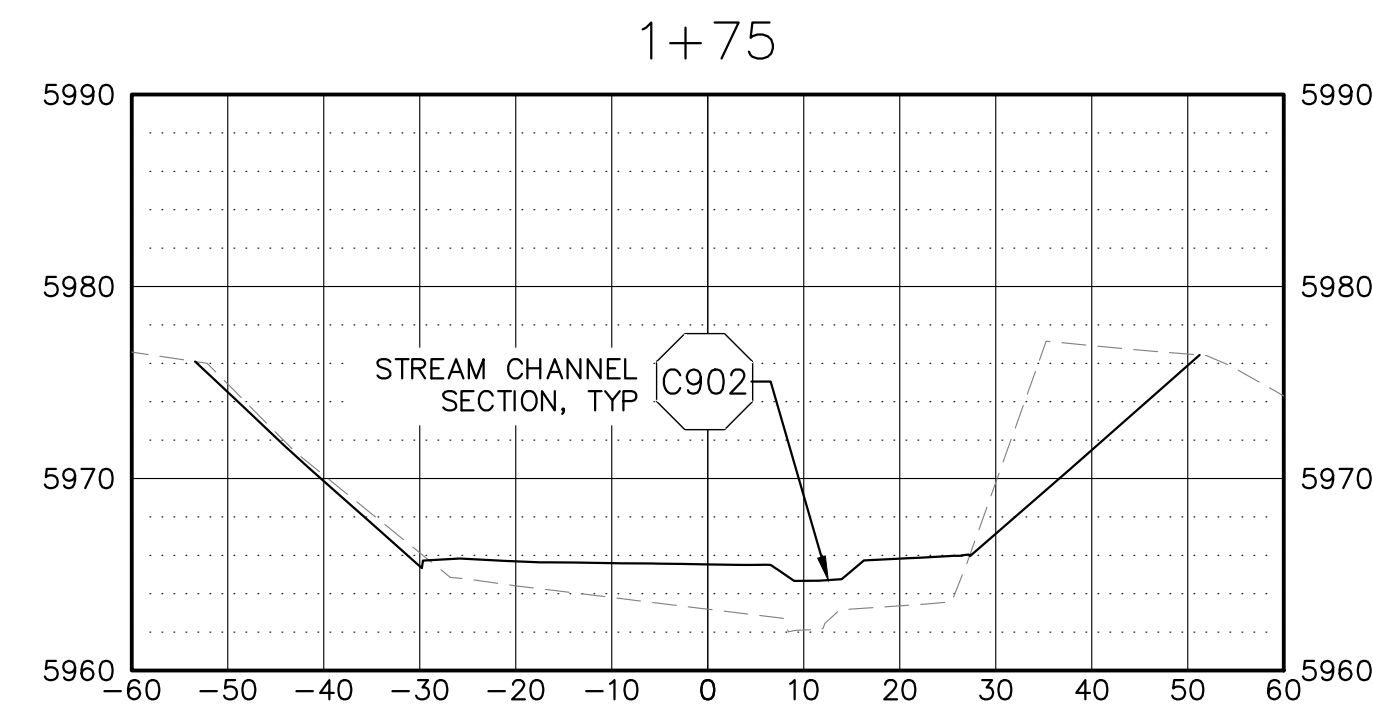
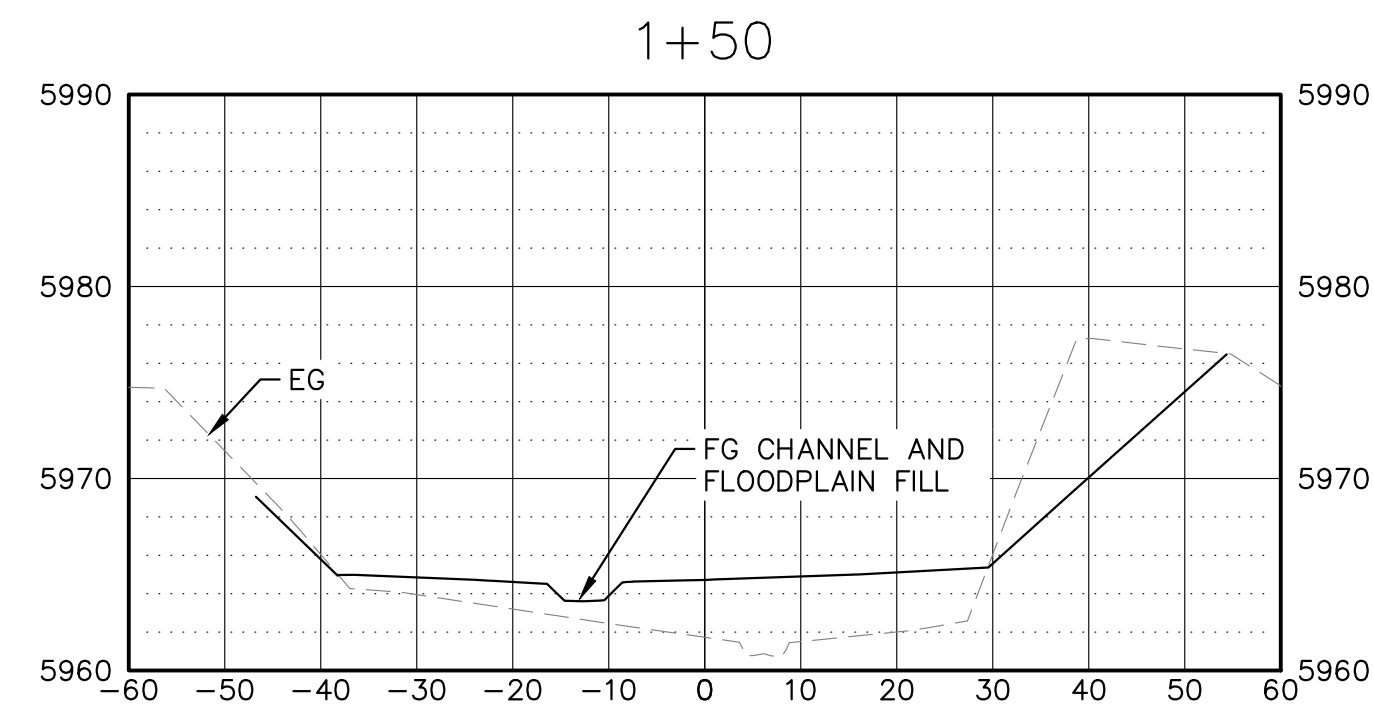
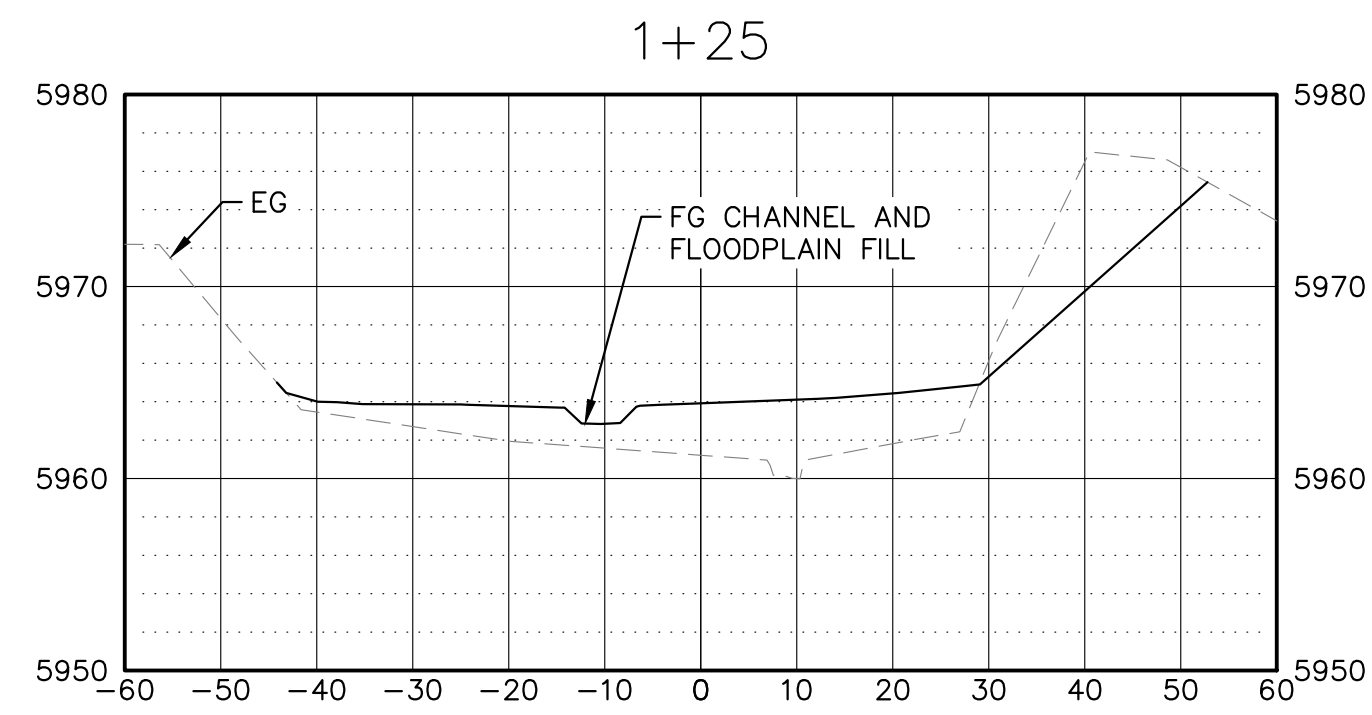
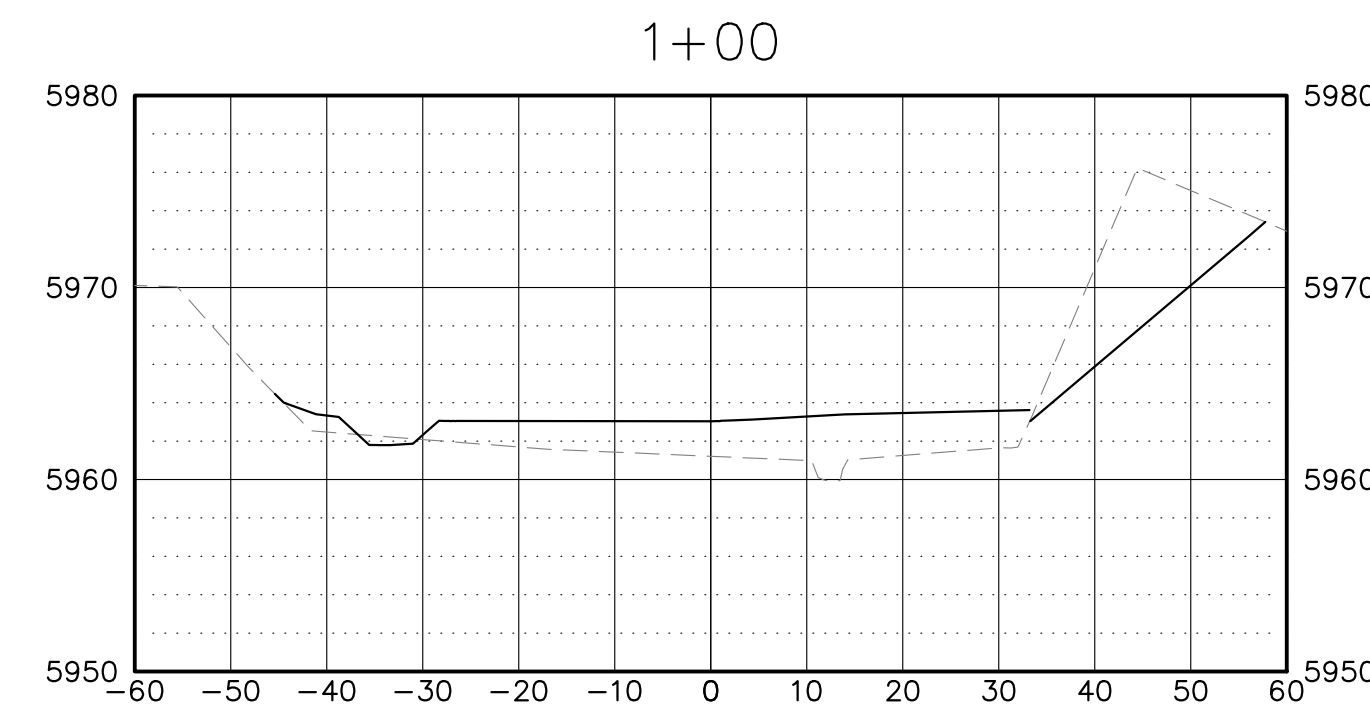
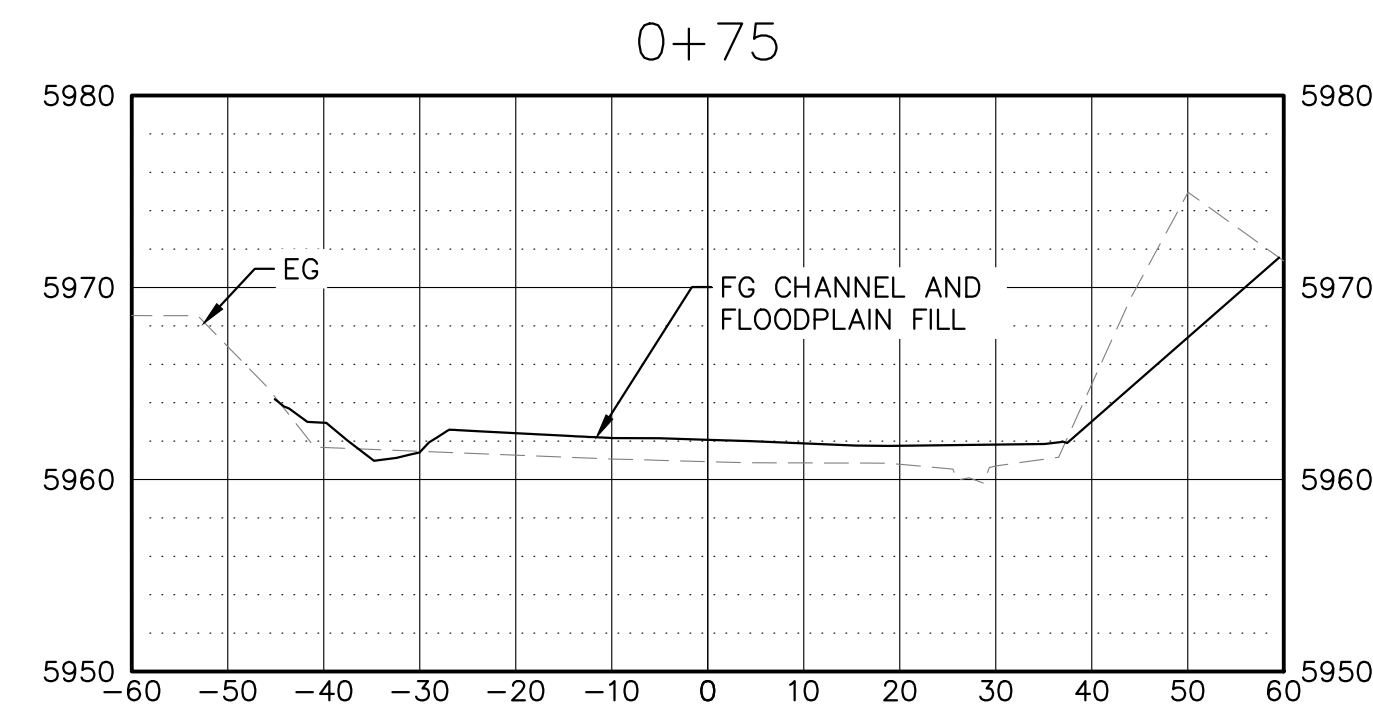
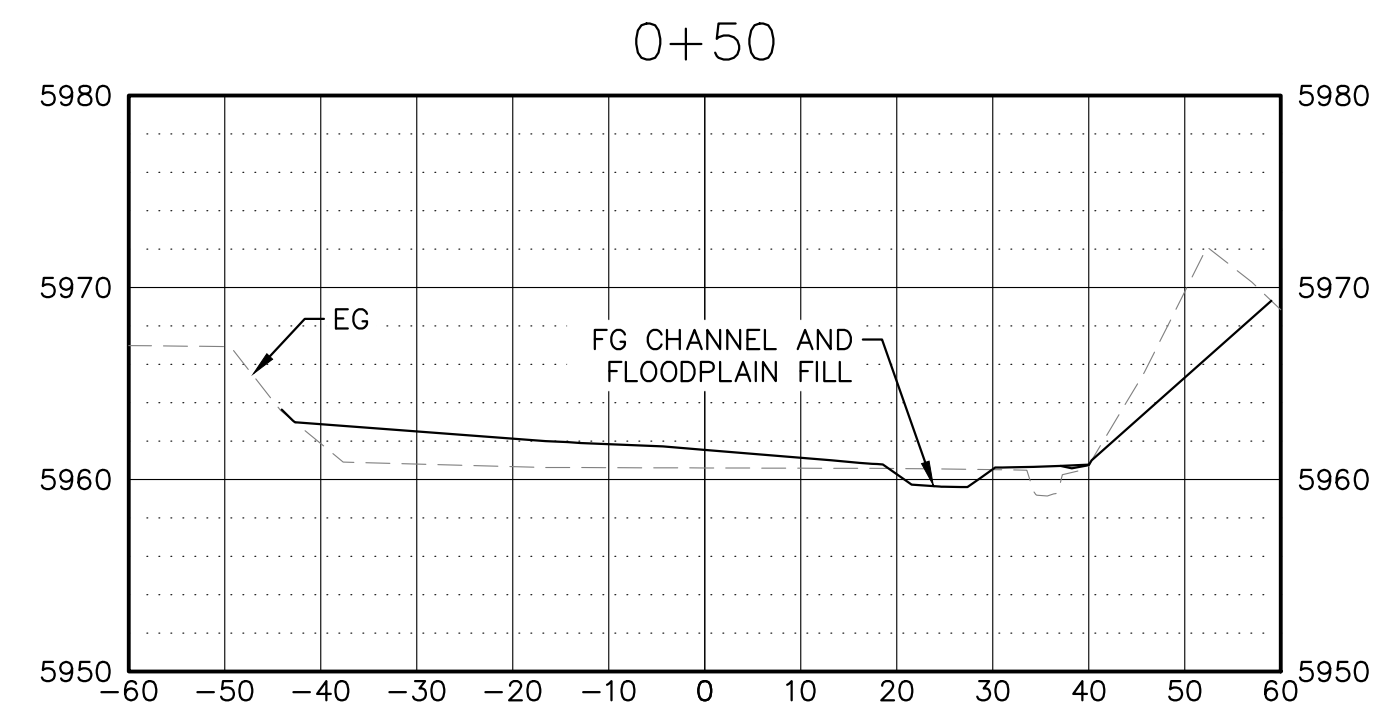
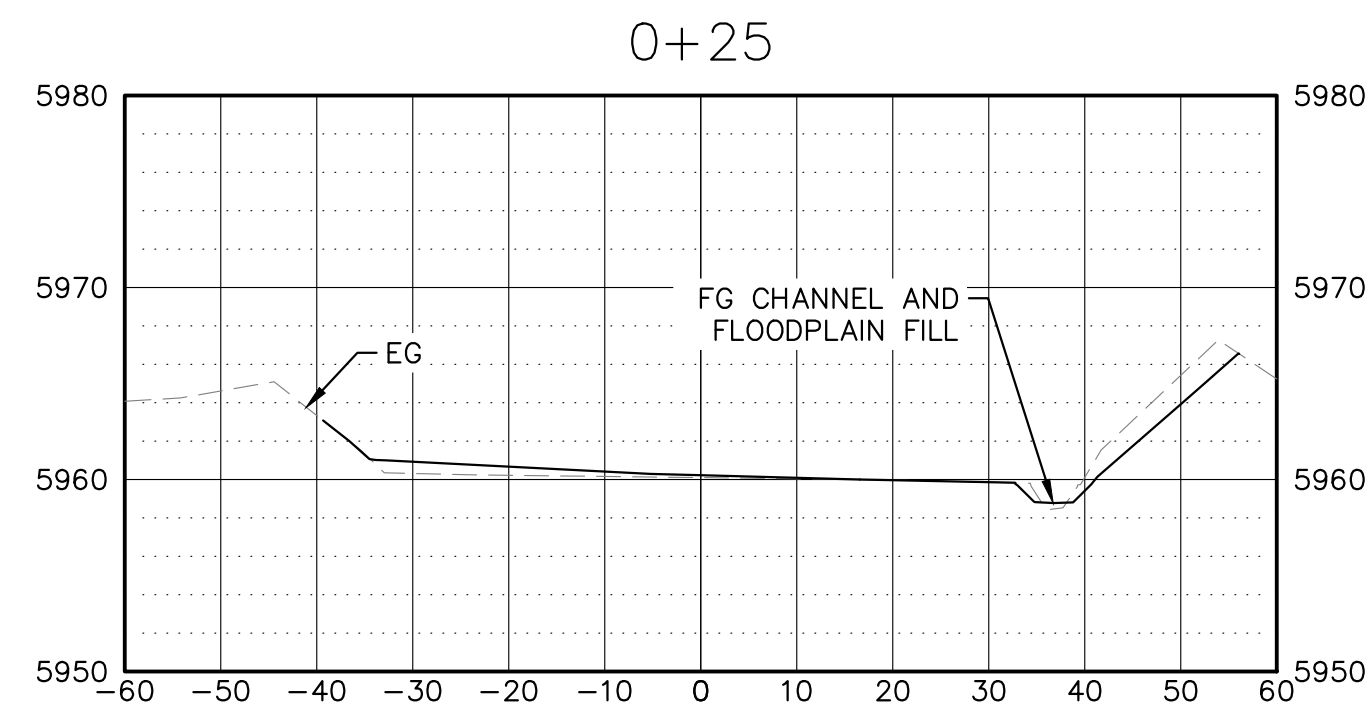
STREAM GRADING
PLAN AND PROFILE 2

DESIGNED J. WOODBURY
DRAWN J. LAHMEN
CHECKED N. KRAUS
ISSUED DATE 12/4/2024

TROUT UNLIMITED logo featuring a stylized fish and the text 'TROUT UNLIMITED'.

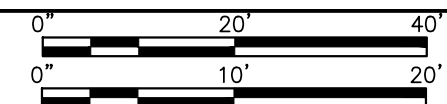
DRAWING
C102
SCALE: AS NOTED

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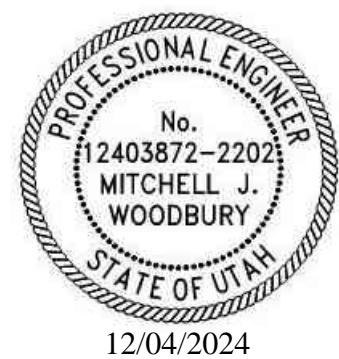
STREAM GRADING SECTIONS 1

SCALE: HORIZ 1" = 20'
VERT 1" = 10'



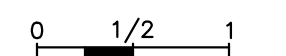
SHEET NOTES:

- EMBANKMENT CUTS SHOWN ARE TO BALANCE FILL REQUIRED FOR THE FLOODPLAIN AND CHANNEL REALIGNMENT.
- ADDITIONAL FILL MATERIAL MAY BE CUT FROM SOUTH EMBANKMENT IF REQUIRED TO GRADE FLOODPLAIN AND PROPOSED CHANNEL AS SHOWN.
- CONTRACTOR SHALL CREATE SMOOTH TRANSITIONS IN GRADING BETWEEN EXISTING AND FINISHED GRADE AT ALL ON-SITE BORROW SOURCES.



12/04/2024

WARNING



IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



TROUT UNLIMITED

NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT

STREAM GRADING SECTIONS 1

DESIGNED J. WOODBURY

DRAWN J. LAHMEN

CHECKED N. KRAUS

ISSUED DATE 12/4/2024



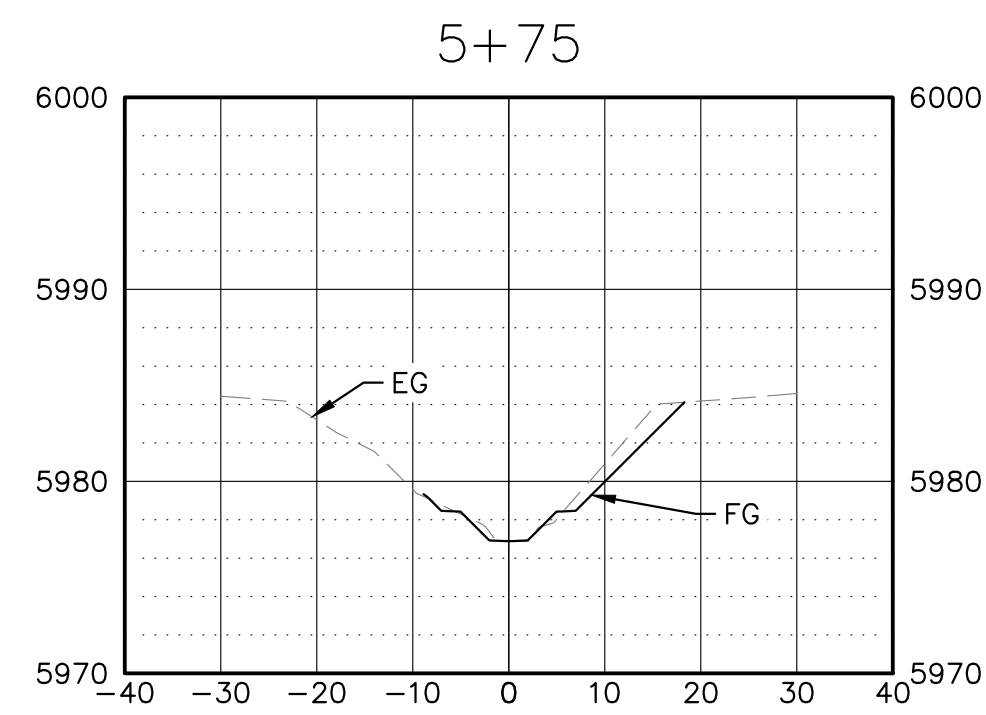
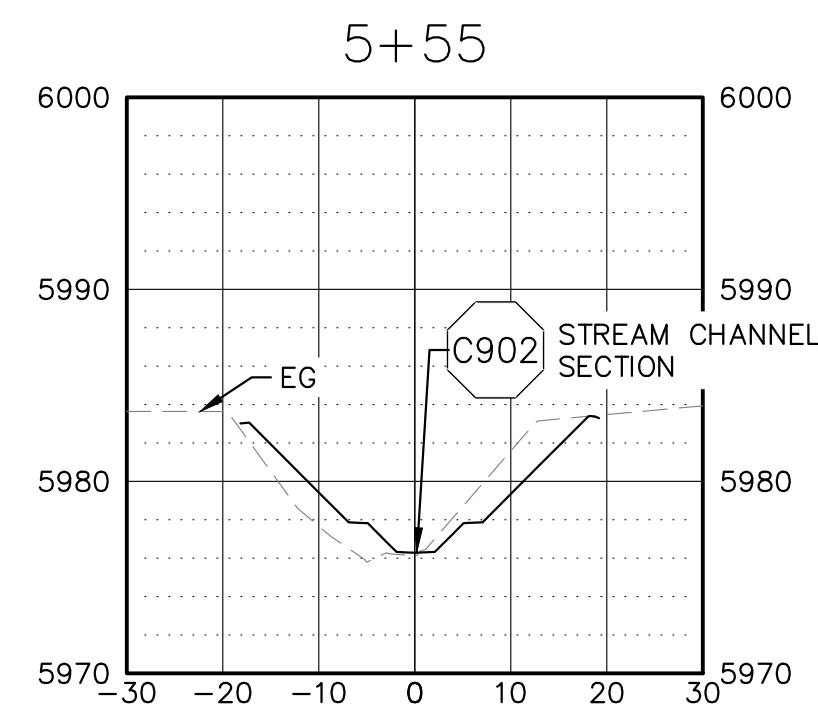
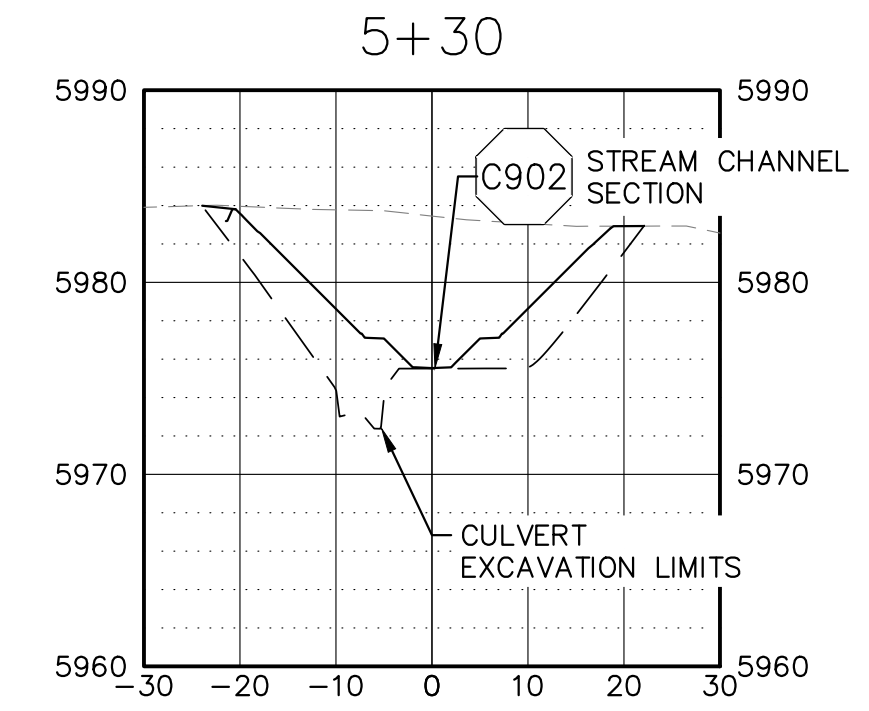
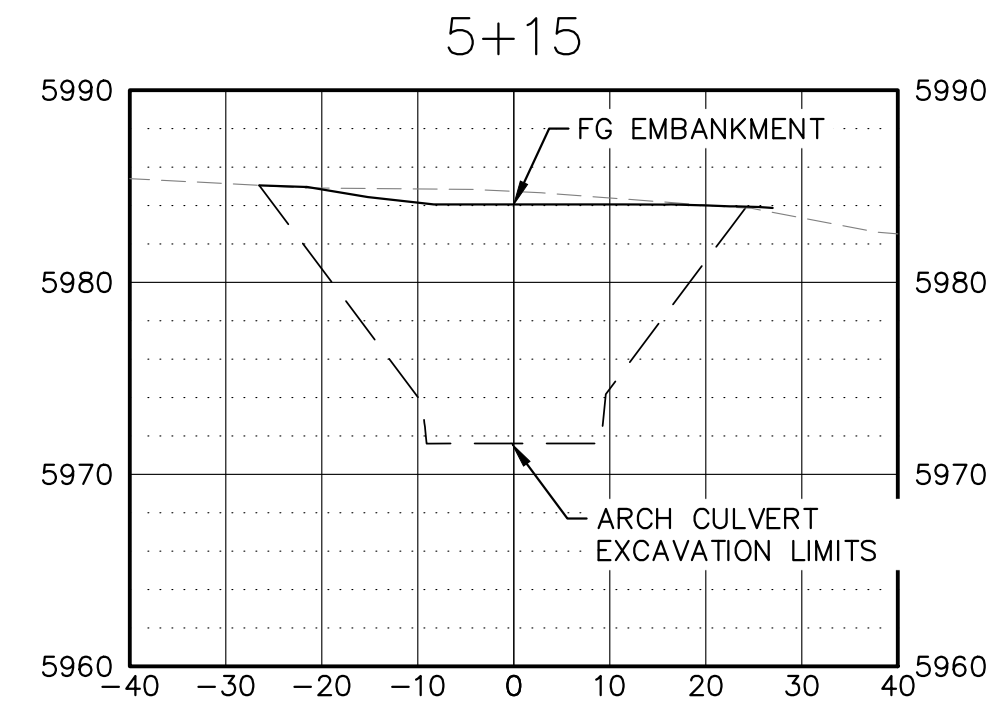
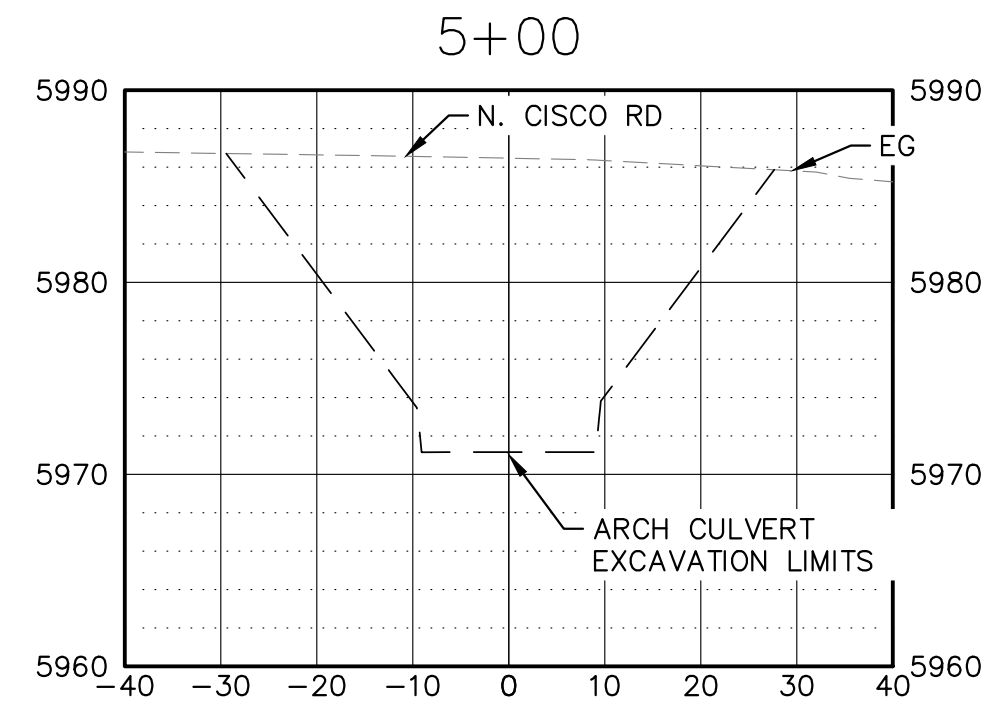
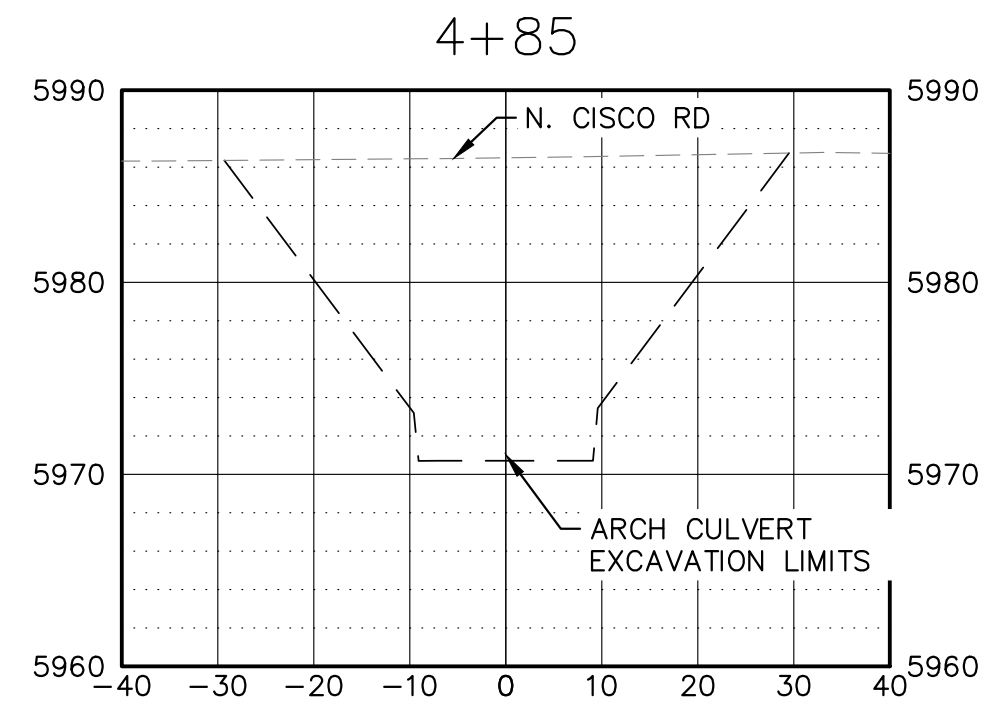
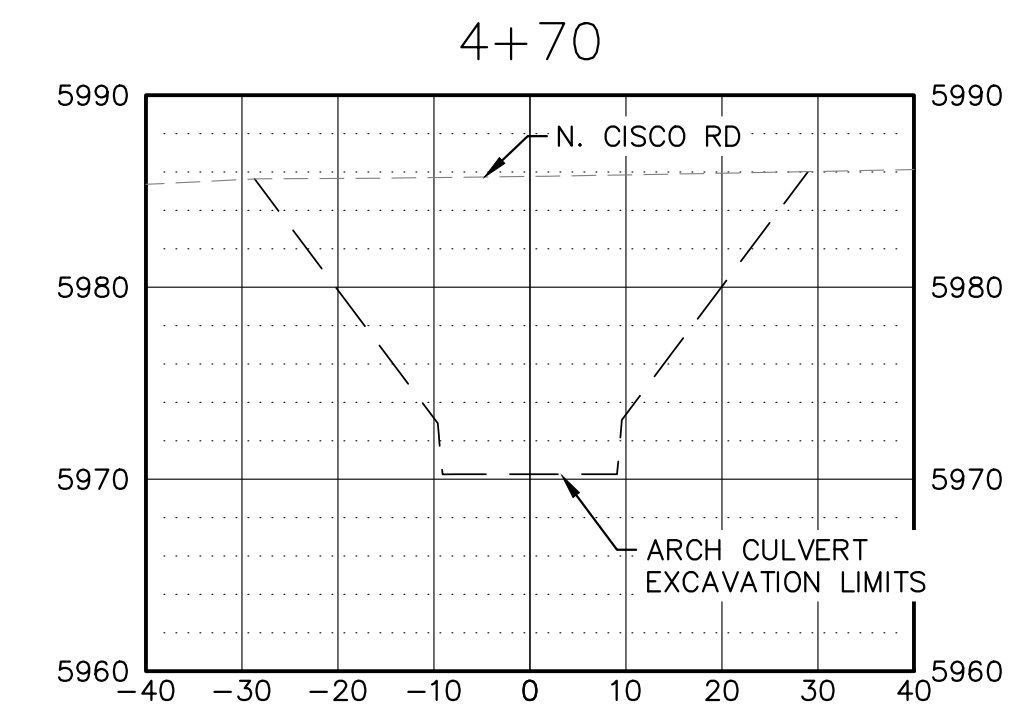
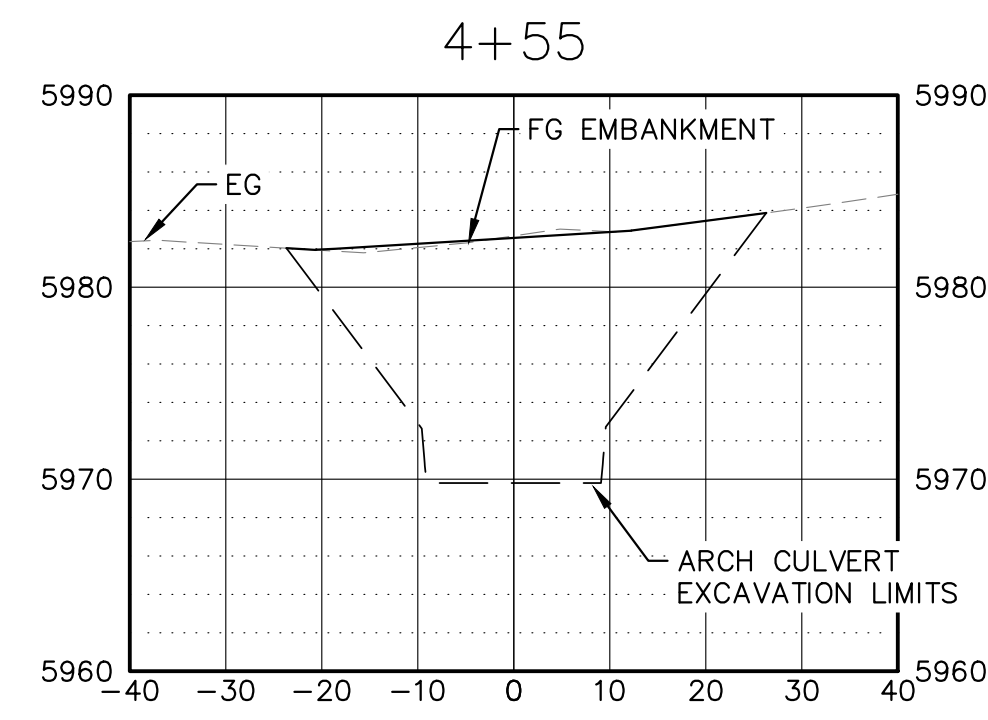
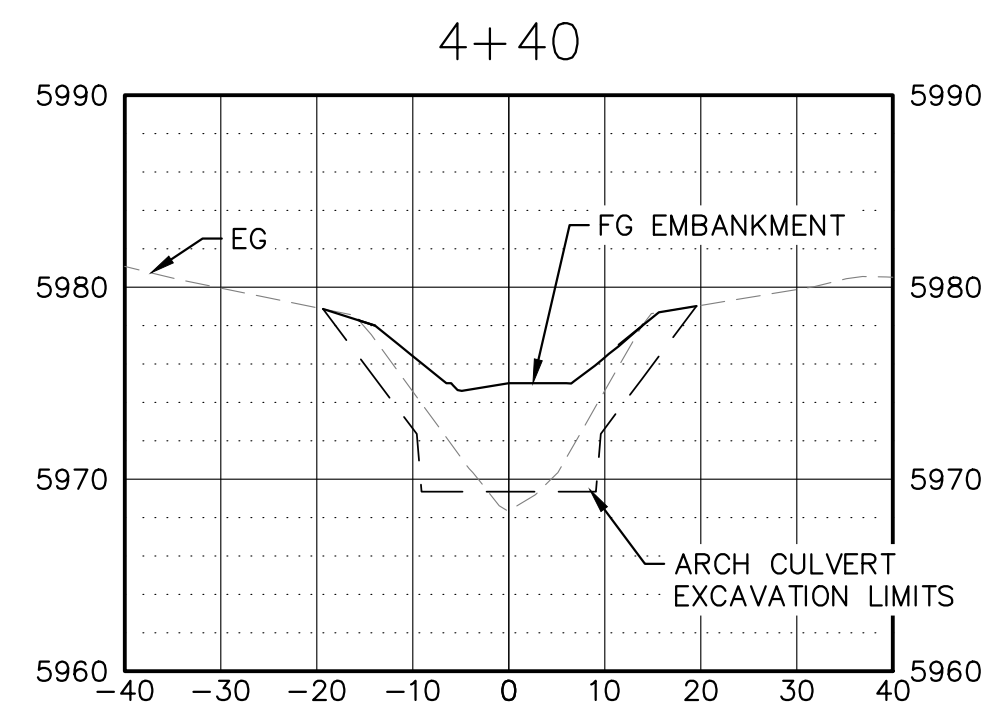
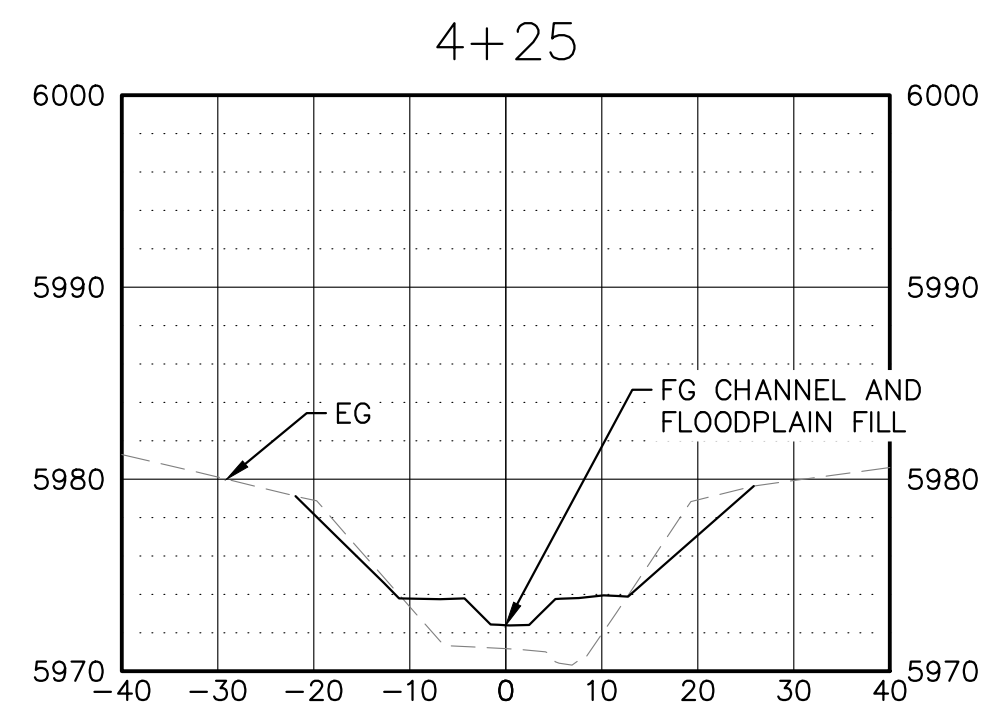
DRAWING

C103

SCALE: AS NOTED

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| E | 11/8/24 | MJW | ISSUED FOR CONSTRUCTION |
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| A | 11/15/21 | MJW | CONCEPTUAL DESIGN ALTERNATIVES SUBMITTAL |

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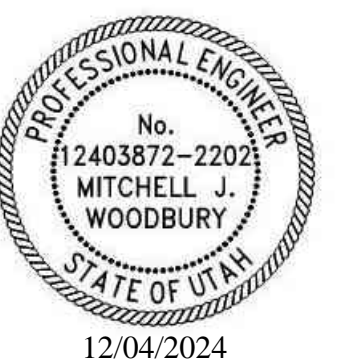


STREAM GRADING SECTIONS 2

SCALE: HORIZ 1" = 20' 0' 20' 40'
 VERT 1" = 10' 0' 10' 20'

SHEET NOTES:

- EXCAVATION LIMITS SHOWN ARE APPROX. AND MAY VARY AT CONTRACTOR'S DISCRETION.



| REV | DATE | BY | DESCRIPTION |
|-----|----------|-----|---|
| F | 12/4/24 | MJW | REISSUED FOR CONSTRUCTION |
| E | 11/8/24 | MJW | ISSUED FOR CONSTRUCTION |
| D | 12/22/23 | MJW | 60% DRAFT SUBMITTAL |
| C | 08/13/23 | MJW | 30% DESIGN REVIEW SUBMITTAL |
| B | 02/11/22 | MJW | CONCEPTUAL DESIGN ALTERNATIVES RE-SUBMITTAL |
| A | 11/15/21 | MJW | CONCEPTUAL DESIGN ALTERNATIVES SUBMITTAL |

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



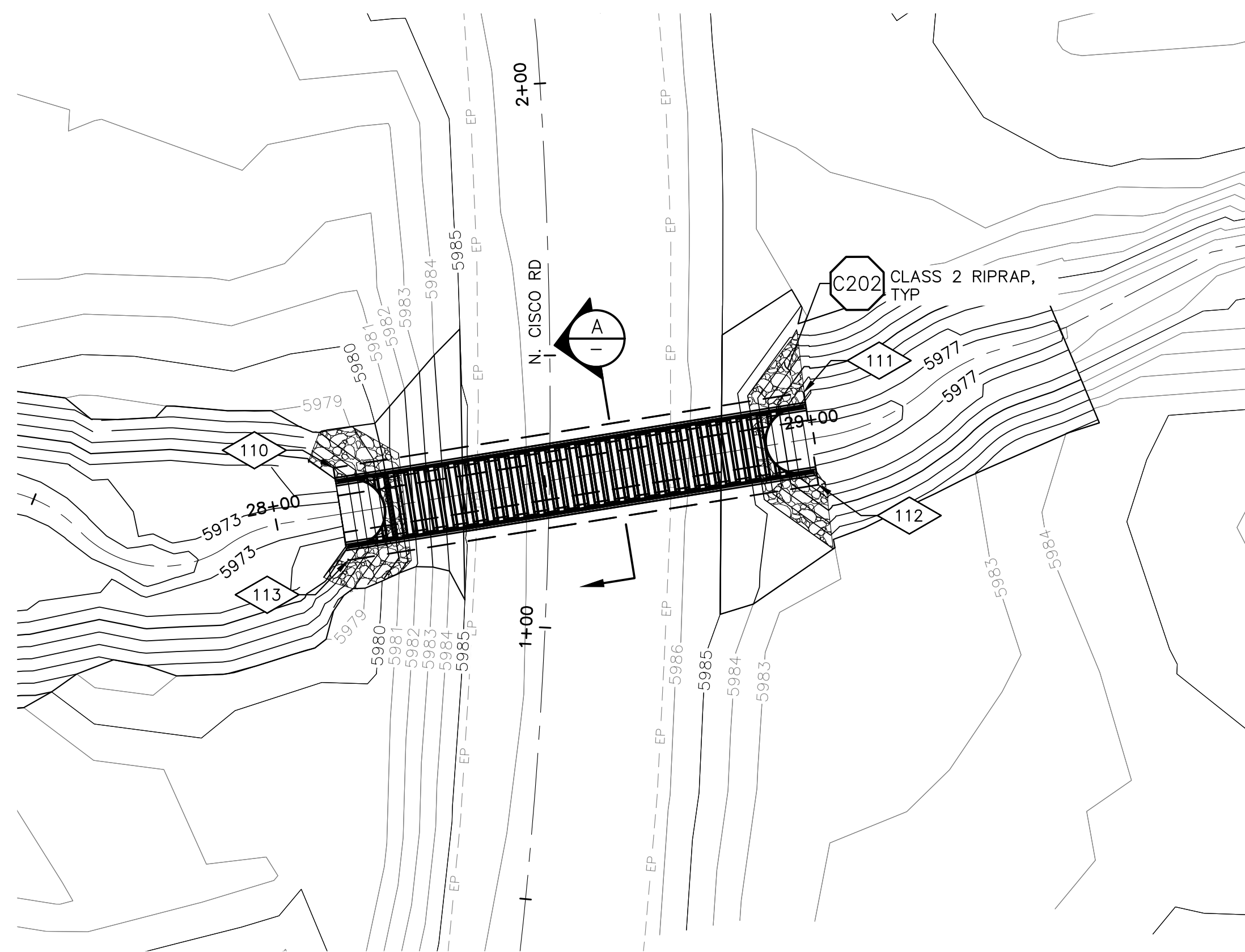
TROUT UNLIMITED
 NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT
 STREAM GRADING SECTIONS 2

DESIGNED J. WOODBURY
 DRAWN J. LAHMON
 CHECKED N. KRAUS
 ISSUED DATE 12/4/2024



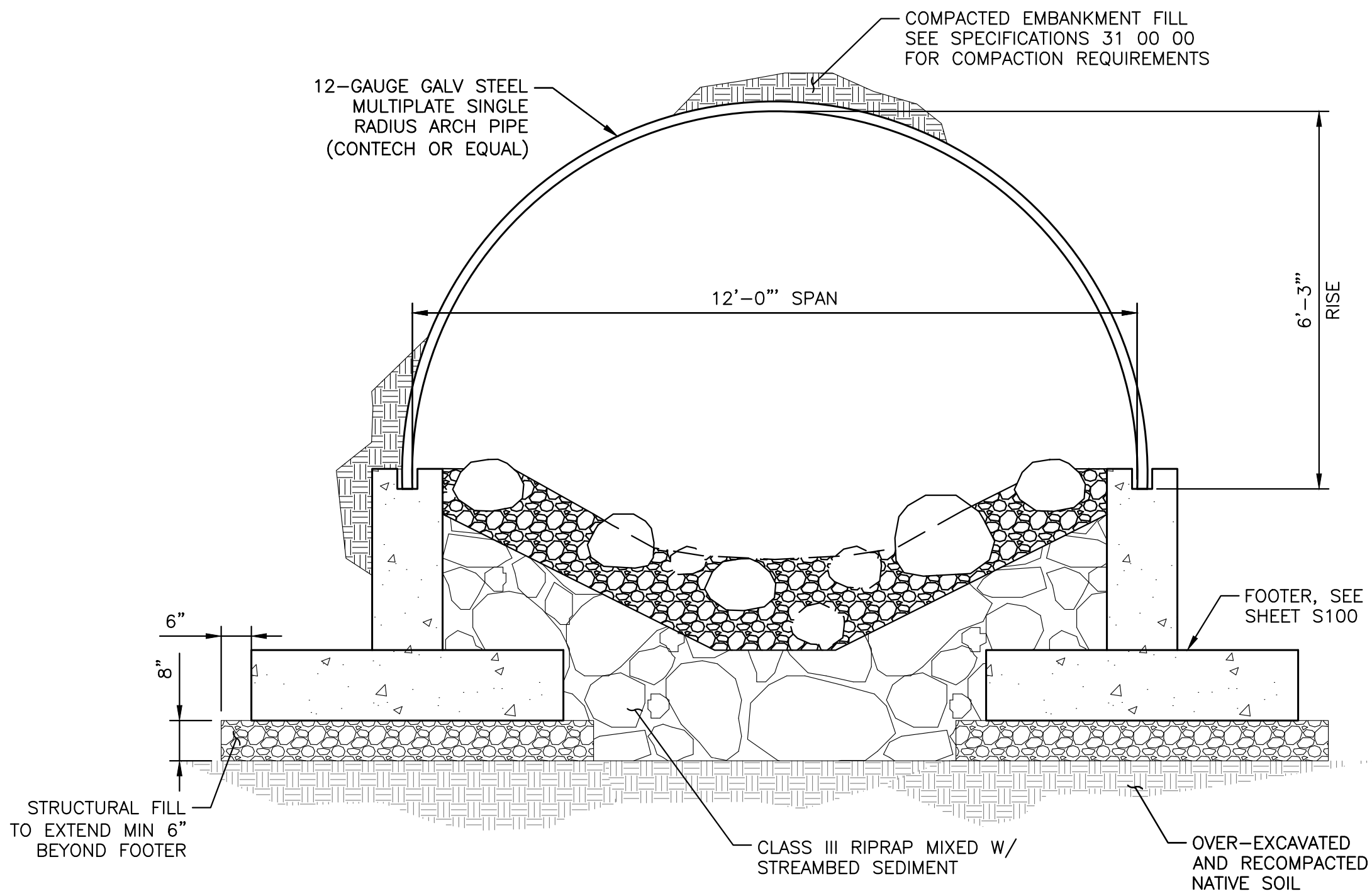
DRAWING
C104
 SCALE: AS NOTED

Path: C:\Users\User\QRS Consulting\QRS Projects - North Eden Creek Culvert Replacement\CAD\C104.dwg Plot date: Dec 04, 2024 03:39pm, CAD User: User



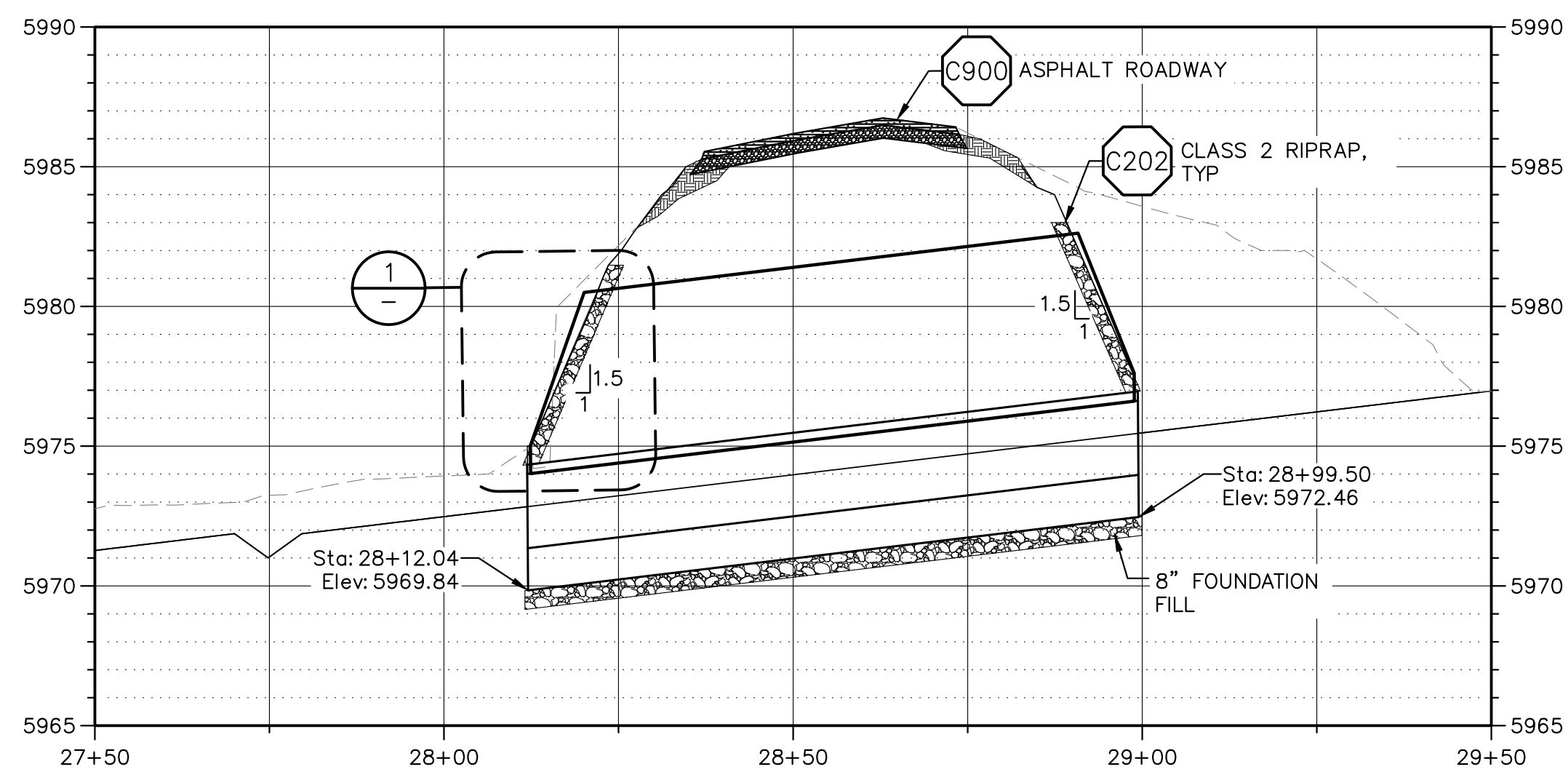
CULVERT GRADING PLAN

SCALE: 1" = 10'



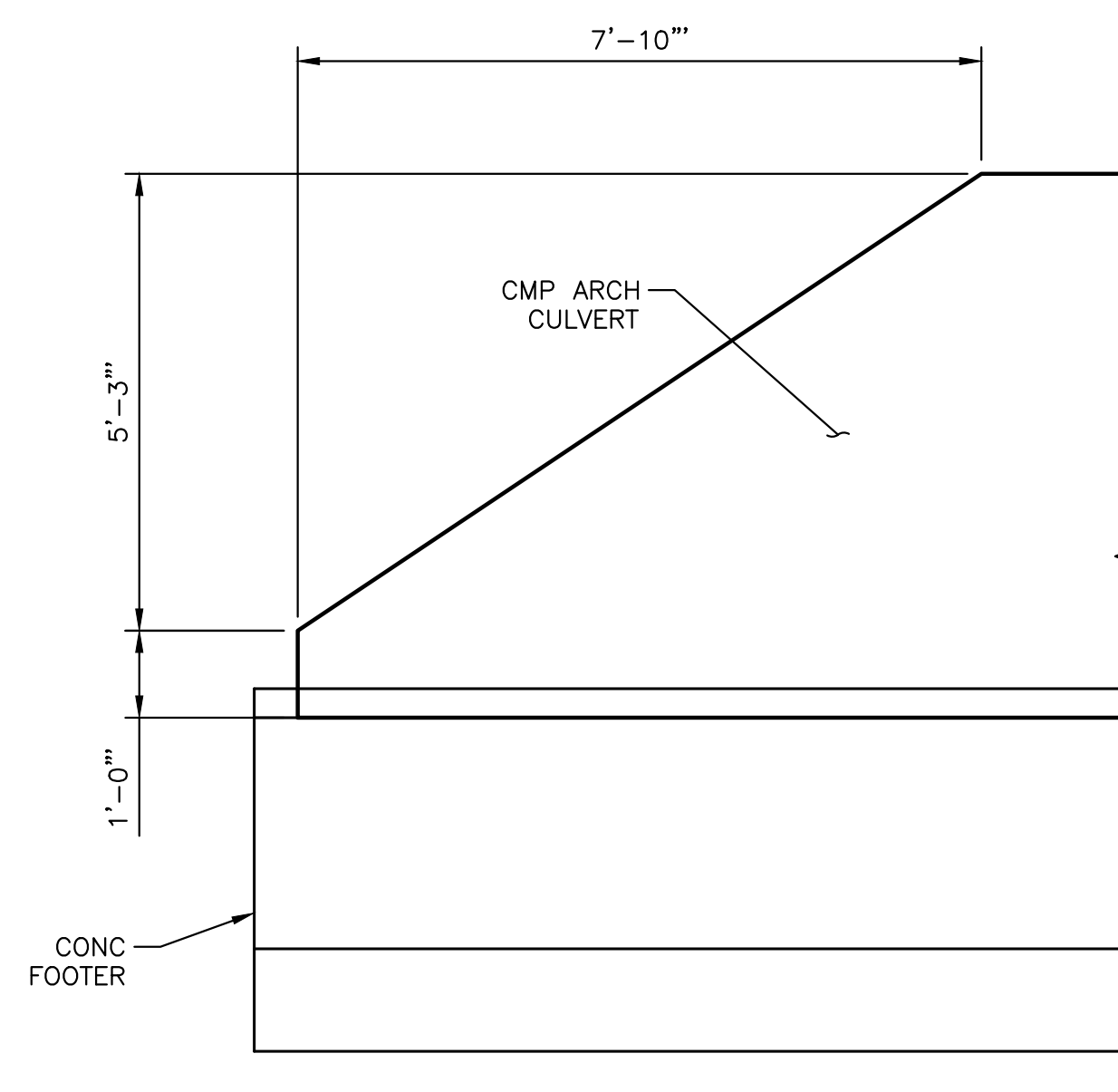
CMP ARCH CULVERT FILL DETAIL

SCALE: 1" = 2'



PROFILE

SCALE: HORIZ 1" = 20'
VERT 1" = 5'



CMP CULVERT END TREATMENT DETAIL

SCALE: 1" = 2'

| CONCRETE FOOTER CONTROL POINTS | | | | |
|--------------------------------|------------|------------|---------|--|
| POINT NO | NORTHING | EASTING | ELEV | DESCRIPTION |
| 110 | 3883482.51 | 1704457.55 | 5969.84 | BASE OF NORTH FOOTER AT DOWNSTREAM OUTSIDE CORNER. |
| 111 | 3883496.36 | 1704543.94 | 5972.46 | BASE OF NORTH FOOTER AT UPSTREAM OUTSIDE CORNER. |
| 112 | 3883479.41 | 1704546.66 | 5969.84 | BASE OF SOUTH FOOTER AT UPSTREAM OUTSIDE CORNER. |
| 113 | 3883465.55 | 1704460.27 | 5972.46 | BASE OF SOUTH FOOTER AT DOWNSTREAM OUTSIDE CORNER. |



| REV | DATE | BY | DESCRIPTION |
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| A | 11/15/21 | MJW | CONCEPTUAL DESIGN ALTERNATIVES SUBMITTAL |

WARNING

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TROUT UNLIMITED

NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT

CULVERT GRADING PLAN, PROFILE AND TYPICAL SECTION

DESIGNED J. WOODBURY

DRAWN J. LAHMOM

CHECKED N. KRAUS

ISSUED DATE 12/4/2024



DRAWING

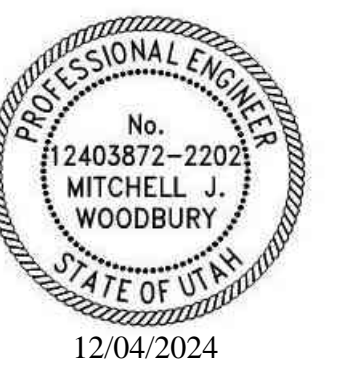
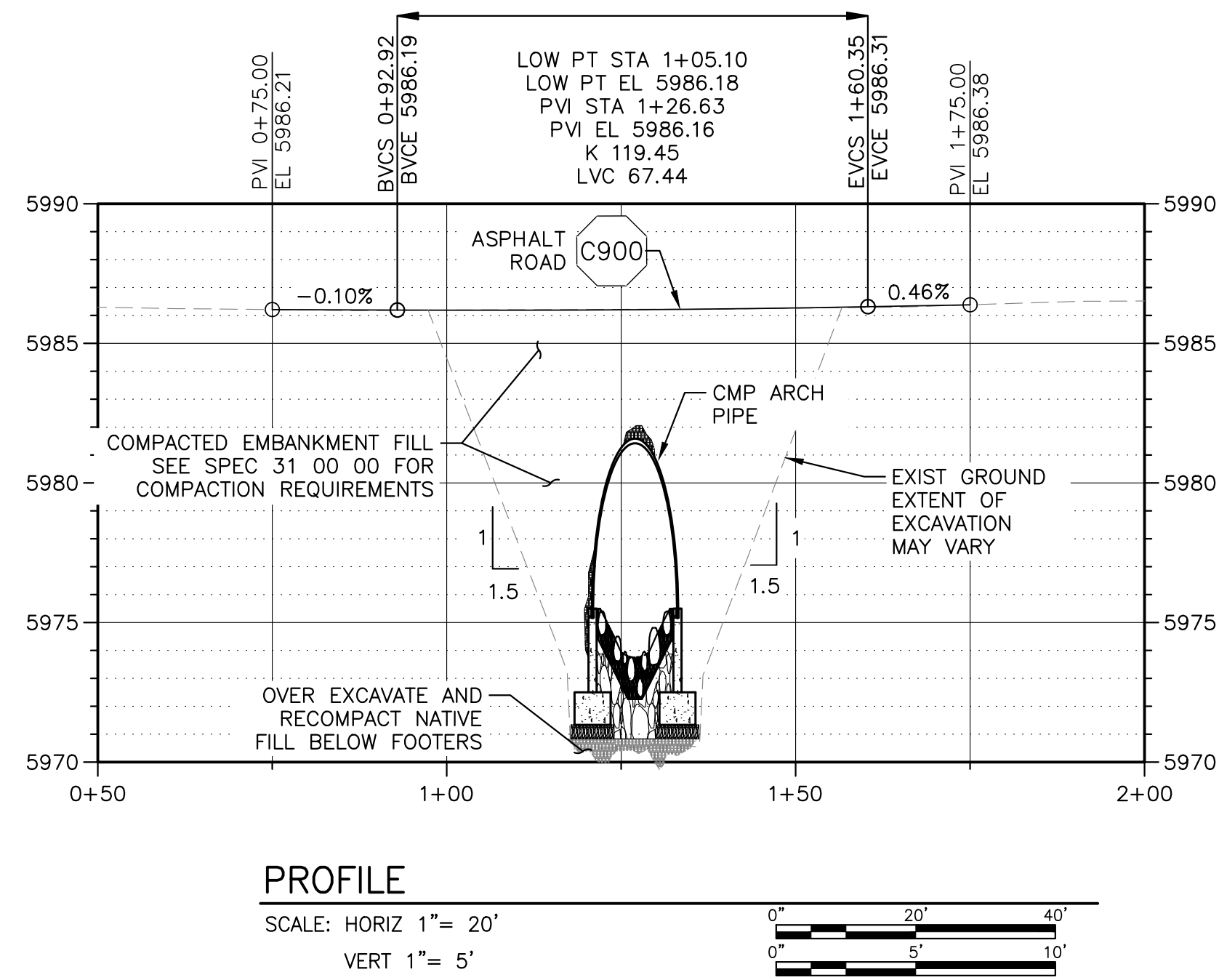
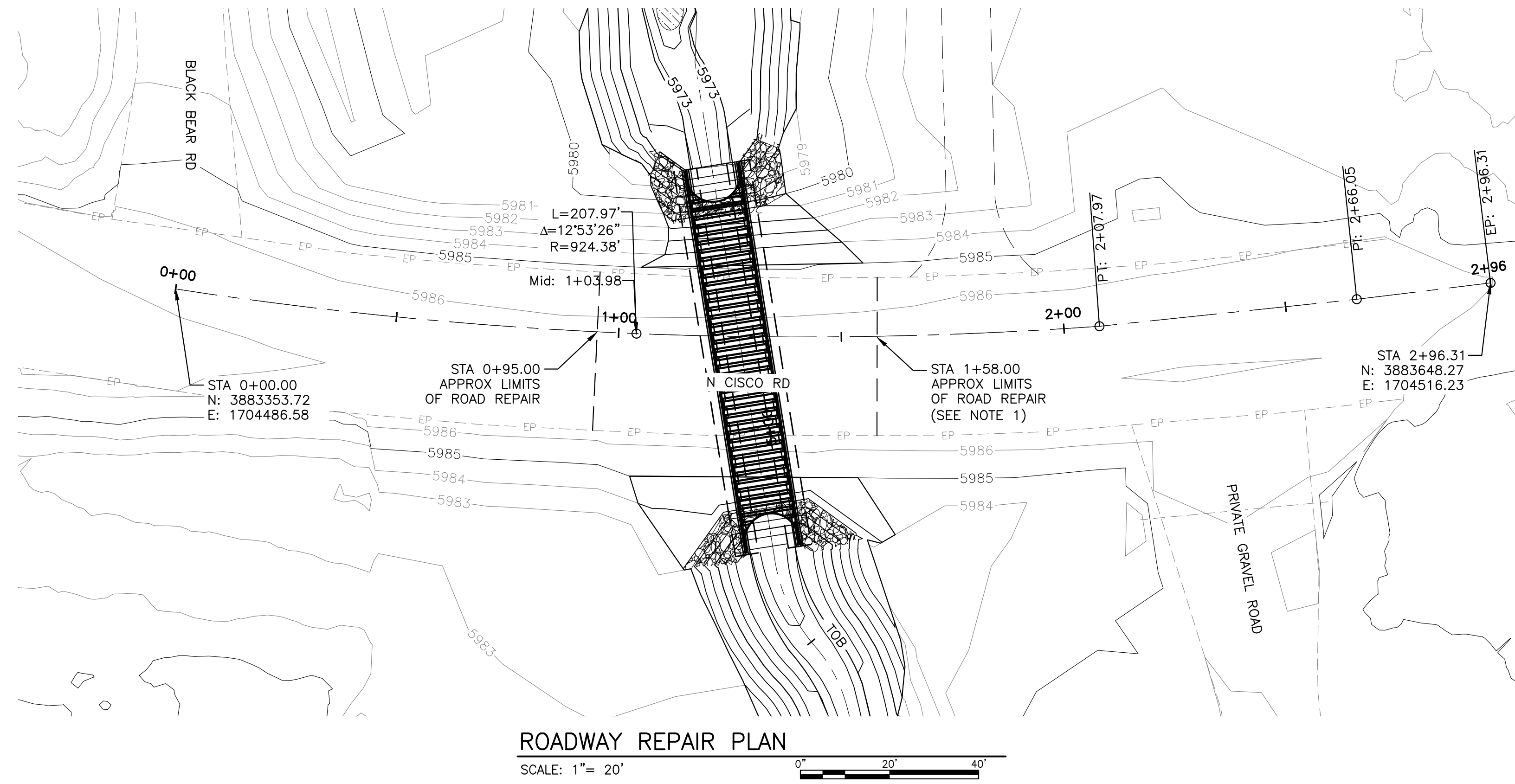
C110

SCALE: AS NOTED

Path: C:\Users\User\OneDrive\Documents\TU\22xx - North Eden Creek Culvert Replacement\CAD\C110.dwg Plot date: Dec 04, 2024 03:39pm, CAD User: User

SHEET NOTES:

1. CONTRACTOR SHALL PREPARE JOINTS IN PAVEMENT BY MAKING STRAIGHT SAWCUTS THROUGH EXIST PAVEMENT PERPENDICULAR TO THE ROADWAY.
2. JOINTS BETWEEN NEW AND EXISTING PAVEMENT SHALL BE STRAIGHT AND CONTINUOUS FOR THE ENTIRE WIDTH OF THE ROADWAY.



| REV | DATE | BY | DESCRIPTION |
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| A | 11/15/21 | MJW | CONCEPTUAL DESIGN ALTERNATIVES SUBMITTAL |

WARNING

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TROUT UNLIMITED

NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT

NORTH CISCO
ROADWAY REPAIR

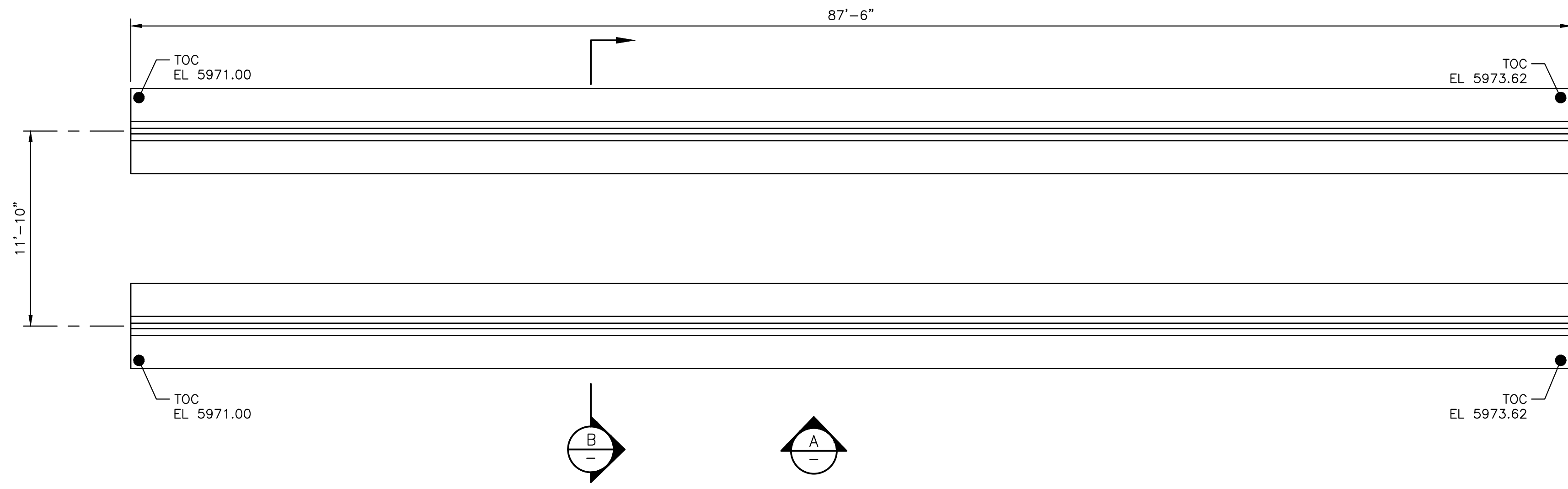
| |
|-----------------------|
| DESIGNED J. WOODBURY |
| DRAWN J. LAHMOM |
| CHECKED N. KRAUS |
| ISSUED DATE 12/4/2024 |

DRAWING

C111

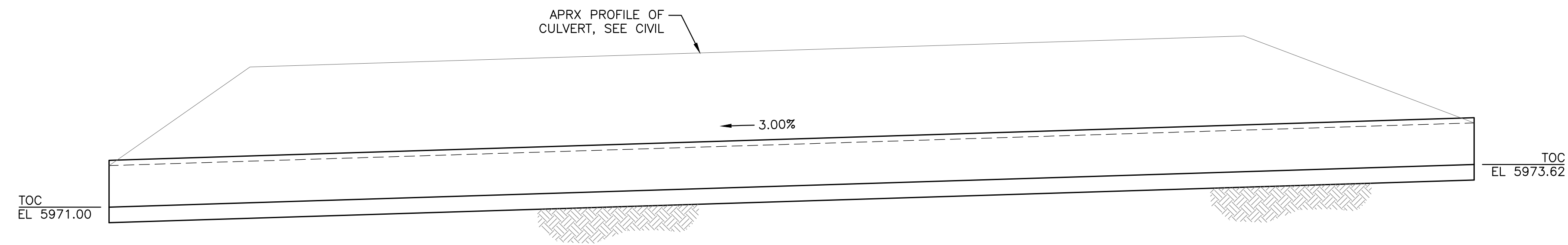
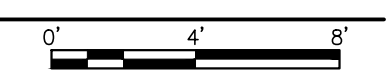
SCALE: AS NOTED

Path: C:\Users\User\QRS Consulting\QRS Projects - Documents\TU\22xx - North Eden Creek Culvert Replacement\CAD\C111.dwg Plot date: Dec 04, 2024 03:39pm, CAD User: User



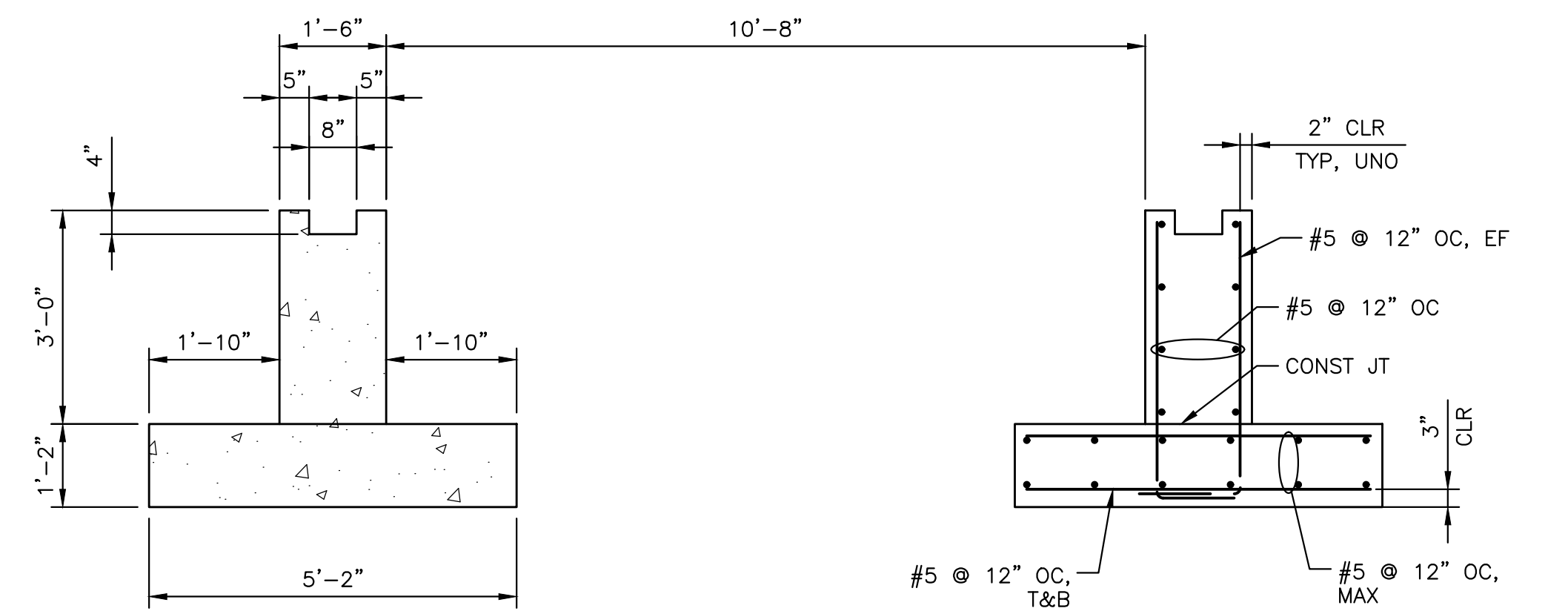
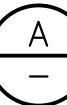
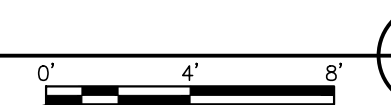
FOUNDATION PLAN

SCALE: 3/16" = 1'-0"



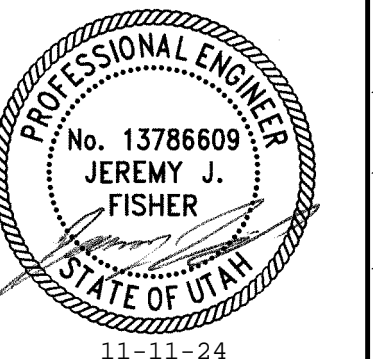
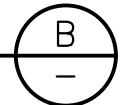
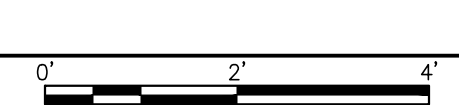
ELEVATION

SCALE: 3/16" = 1'-0"



SECTION

SCALE: 1/2" = 1'-0"



| REV | DATE | BY | DESCRIPTION |
|-----|----------|-----|---|
| E | 11/8/24 | MJW | ISSUED FOR CONSTRUCTION |
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WARNING

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TROUT UNLIMITED
 NORTH EDEN CREEK CULVERT REPLACEMENT PROJECT
 CULVERT FOUNDATION PLAN,
 ELEVATION AND SECTION

DESIGNED J. FISHER
 DRAWN J. LAHMON
 CHECKED N. KRAUS
 ISSUED DATE 11/8/2024



DRAWING
S100
 SCALE: AS NOTED