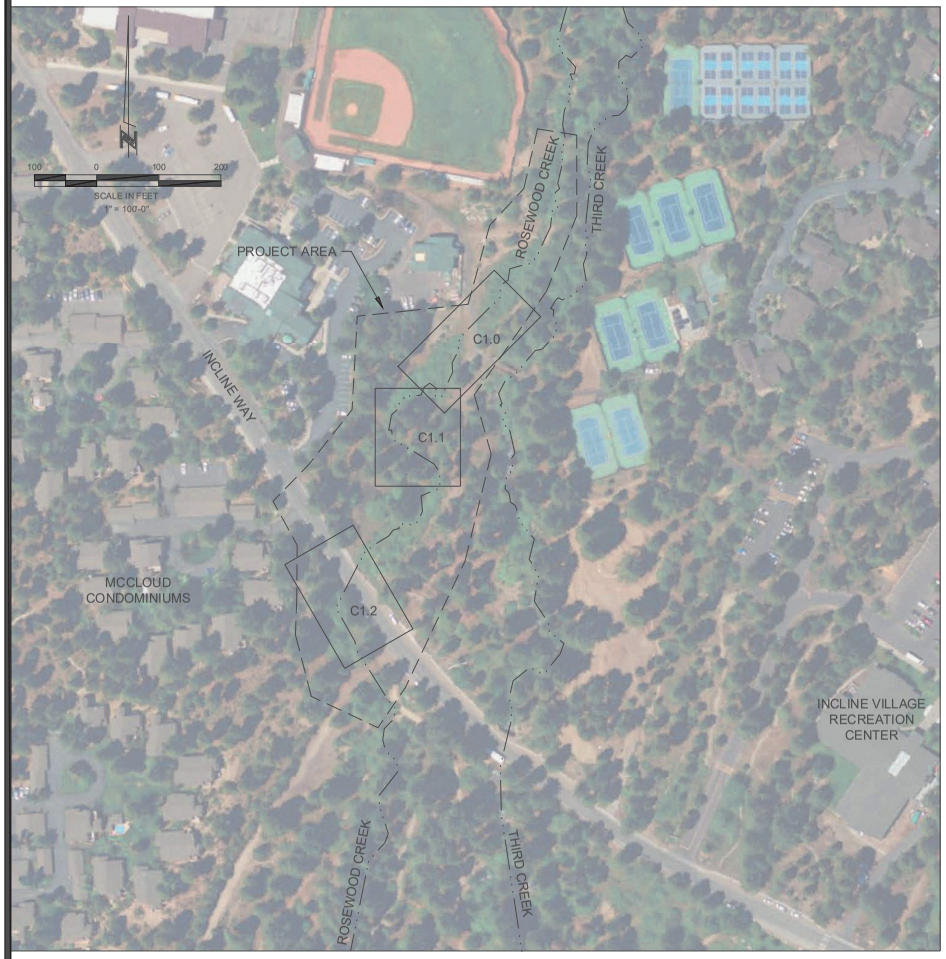
NEVADA TAHOE CONSERVATION DISTRICT

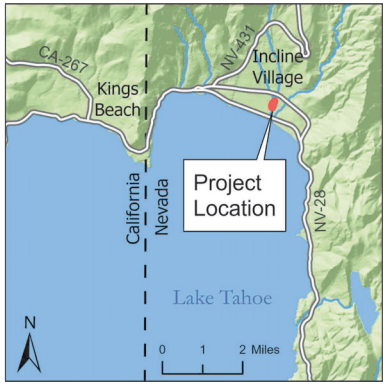
LOWER ROSEWOOD CREEK AQUATIC ORGANISM PASSAGE PROJECT

IN THE COUNTY OF WASHOE



SHEET LOCATOR MAP

SCALE: 1" = 100'



VICINITY MAP

REGIONAL MAP

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ENGINEER:

MEGHAN C. KELLY, P.E.
REGISTERED CIVIL ENGINEER
STATE OF NEVADA, NO. 20851
NEVADA TAHOE CONSERVATION DISTRICT
400 DORLA CT.
ZEPHYR COVE, NV 89448
(775) 586-1610

DATE

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TITLE
LOWER ROSEWOOD CREEK AOP

DESIGNED/DRAWN
PJ
CHECKED BY
MK
DATE
2/23/2026
SCALE
AS SHOWN
PROJECT
LRWC - 85%
SHEET
i
1 OF 13

GENERAL NOTES

1. ALL IMPROVEMENTS SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION, AND TO THE SATISFACTION OF NEVADA TAHOE CONSERVATION DISTRICT (NTCD) & WASHOE COUNTY. IMPROVEMENT CONSTRUCTION SHALL COMPLY WITH THESE PLANS, THE TECHNICAL PROVISIONS, AND THE 2014 FEDERAL PROJECTS FOR THE CONSTRUCTION OF ROADS AND BRIDGES ("STANDARD SPECIFICATIONS"). THE CONTRACTOR IS OBLIGATED TO BE FAMILIAR WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS NOT DISCUSSED IN THE GENERAL NOTES. THE CONTRACT SPECIAL TECHNICAL PROVISIONS SHALL SUPERSEDE THOSE OF THE STANDARD SPECIFICATIONS WHERE DISCREPANCIES OCCUR.
2. CONTRACTOR SHALL MAINTAIN A SET OF PLANS ON SITE SHOWING "AS CONSTRUCTED" CHANGES. UPON COMPLETION, CONTRACTOR SHALL SUPPLY USFS AND NTCD A SET OF "AS BUILT" PLANS.
3. ANY MOBILIZATION AND STAGING AREAS NOT SHOWN ON PLANS ARE TO BE SECURED BY THE CONTRACTOR AND APPROVED BY TRPA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF MOBILIZATION AND STAGING SITES, INCLUDING PLACEMENT AND MAINTENANCE OF BMPS AND REPAIR OF ANY DAMAGED PAVED SURFACES
4. PRIOR TO STARTING WORK, THE CONTRACTOR SHALL INSTALL TEMPORARY BMP MEASURES AT LOCATIONS WHERE NEEDED TO CONTROL EROSION AND WATER POLLUTION DURING THE CONSTRUCTION OF THE PROJECT. THE BMP MEASURES SHALL REMAIN IN PLACE AND SHALL BE MAINTAINED IN A FUNCTIONAL CONDITION FOR THE DURATION OF THE CONSTRUCTION. SILT FENCE IS REQUIRED AT ALL CROSS DRAIN OUTLETS. SILT FENCE OR FIBER ROLLS WILL BE REQUIRED AT OTHER LOCATIONS AS SHOWN ON THE DRAWINGS OR STAKED IN THE FIELD BY THE ENGINEER. ALL EROSION CONTROL MEASURES SHALL MEET OR EXCEED THE REQUIREMENTS IN THE RPMS.
5. ALL EXISTING VEGETATION SHALL BE PRESERVED UNLESS SPECIFICALLY IDENTIFIED BY THE ENGINEER FOR REMOVAL. BMP'S TO PROTECT VEGETATION SHALL BE INSTALLED BY THE CONTRACTOR. CONTRACTOR TO REVEGETATE ANY AREAS OUTSIDE THE DISTURBED AREA SHOWN ON THE PLANS WITH PLANTS APPROVED BY USFS AT THEIR OWN EXPENSE.
6. NTCD WILL PROVIDE ONE SET OF CONSTRUCTION STAKES AS PART OF THE CONTRACT. ADDITIONAL CONSTRUCTION STAKES WILL BE PROVIDED AT THE CONTRACTOR'S EXPENSE. LIMITS FOR ALL ITEMS OF WORK SHALL BE STAKED IN THE FIELD BY THE ENGINEER. THESE LIMITS AND THE RESULTING TREATMENT LENGTH/AREAS MAY VARY FROM THOSE SHOWN ON THE DRAWINGS. PAYMENT FOR ITEMS OF WORK WILL BE MADE FOR THE AMOUNT AUTHORIZED BY THESE FIELD STAKED LIMITS AND THE SPECIAL TECHNICAL PROVISIONS.
7. UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. WHERE EXCAVATION IS NECESSARY, THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AND ALL AFFECTED UTILITY COMPANIES TO LOCATE ALL BURIED UTILITIES AT LEAST 48 HOURS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR RELOCATION OF UTILITIES AS REQUIRED BY THE WORK. WHENEVER CONNECTIONS TO OR CLEARANCE FROM ANY UTILITY IS REQUIRED, THE CONTRACTOR SHALL POTHOLE TO VERIFY THE LOCATION, SIZE AND MATERIAL OF THE UTILITY PRIOR TO CONSTRUCTION.
8. THE COST OF REMOVAL AND/OR REPLACEMENT OF ANY DEFECTIVE WORK OR MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF RETESTING AND/OR INSPECTING OF REPLACED WORK AND MATERIAL IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR. SUCH COSTS WILL BE DEDUCTED FROM ANY MONEYS DUE OR WHICH MAY BECOME DUE TO THE CONTRACTOR.
9. STANDARD WORK DAYS SHALL BE MONDAY THROUGH FRIDAY. SATURDAY AND SUNDAY MAY BE WORKED ON OCCASION ONLY TO MAKE UP FOR WEATHER DELAYS OR OTHER SCHEDULE DELAYS. NOISE GENERATING ACTIVITIES WILL BE LIMITED TO THE HOURS OF 8:00 AM TO 6:30 PM.
10. NOISE SHALL BE REDUCED BY THE MANDATORY USE OF MUFFLERS ON ALL CONSTRUCTION VEHICLES AND EQUIPMENT. NOISE GENERATING ACTIVITIES WILL BE LIMITED TO THE HOURS OF 8:00 AM TO 6:30 PM.
11. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK TO WATER AREAS AS NECESSARY TO CONTROL DUST. THE CONTRACTOR WILL PROVIDE SWEEPING OF PAVED SURFACES AT THE END OF EACH DAY. THE CONTRACTOR IS RESPONSIBLE FOR SECURING CONSTRUCTION WATER.
12. SOIL AND CONSTRUCTION MATERIAL SHALL NOT BE TRACKED OFF THE CONSTRUCTION SITE. GRADING OPERATIONS SHALL CEASE IN THE EVENT THAT A DANGER OF VIOLATING THIS CONDITION EXISTS.
13. DURING CONSTRUCTION ENVIRONMENTAL PROTECTION DEVICES, SUCH AS EROSION CONTROL, DUST CONTROL, AND VEGETATION PROTECTION DEVICES SHALL BE MAINTAINED AT ALL TIMES.
14. LOOSE SOIL MOUNDS OR SURFACES SHALL BE PROTECTED FROM WIND OR WATER EROSION BY BEING APPROPRIATELY COVERED WHEN CONSTRUCTION IS NOT IN ACTIVE PROGRESS OR WHEN REQUIRED BY USFS OR ENGINEER.
15. EXCAVATED MATERIAL SHALL BE STORED UPGRADIENT FROM THE EXCAVATED AREA WHENEVER POSSIBLE. NO MATERIAL SHALL BE STORED IN ANY STREAM ENVIRONMENT ZONE (SEZ) OR WET AREA.
16. ONLY EQUIPMENT OF A SIZE AND TYPE THAT WILL DO THE LEAST AMOUNT OF DAMAGE, UNDER PREVAILING SITE CONDITIONS, AND CONSIDERING THE NATURE OF THE WORK TO BE PERFORMED, WILL BE USED. ONLY RUBBER TRACKED EQUIPMENT SHALL BE USED ON UNPAVED SURFACES.
17. NO WASHING OF VEHICLES OR HEAVY EQUIPMENT, INCLUDING CEMENT MIXERS, SHALL BE PERMITTED ANYWHERE ON THE SUBJECT PROPERTY UNLESS AUTHORIZED BY TRPA IN WRITING.
18. ALL CONSTRUCTION SHALL BE WINTERIZED BY OCTOBER 15 TO REDUCE THE WATER QUALITY IMPACTS ASSOCIATED WITH WINTER WEATHER.
19. THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE ON, PAVED ROADS, PARKING AREAS, AND ASSOCIATED SHOULDERS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS CONSTRUCTION PROJECT.
20. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS AS SPECIFIED BY NDEP.
21. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LONGER THEN 24 HOURS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED.
22. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMP'S WEEKLY, PRIOR TO A FORECASTED RAIN EVENT AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS FROZEN GROUND CONDITIONS OF SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE SWPPP.
23. TRAFFIC CONTROL AND LANE CLOSURES WILL BE PER SPECIFICATION SECTION 156 OF FP-03 - TEMPORARY ROAD CLOSURES.

ABBREVIATIONS

NOT ALL ABBREVIATIONS LISTED ARE USED IN THESE PLANS

A.B.	AGGREGATE BASE
AC.	ACRE
A.C.	ASPHALT CONCRETE
@	AT
APPROX.	APPROXIMATE
AVG.	AVERAGE
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BEGIN CURVE
C&G	CURB AND GUTTER
CATV	CABLE TELEVISION
C.B.	CATCH BASIN
CL	CENTERLINE
CLR.	CLEAR
CO.	CLEAN OUT
CONST.	CONSTRUCT
CF	CUBIC FEET
CMP	CORRIGATED METAL PIPE
CY	CUBIC YARD
D.G.	DECOMPOSED GRANITE
DEG	DEGREE(S)
DI	DROP INLET
DIA.	DIAMETER
DR	DIMENSION RATIO
DWG	DRAWING
DW, DWY	DRIVEWAY
EA.	EACH
EASE.	EASEMENT
EG	EXISTING GRADE
ELEC	ELECTRIC
ELEV.	ELEVATION
EP	EDGE OF PAVEMENT
EC	END CURVE
EX.	EXISTING
FG	FINISH GRADE
FH	FIRE HYDRANT
FCA	FLANGE COUPLER ADAPTER
FES	FLARED END SECTION (METAL)
FL	FLOWLINE
FLG	FLANGED
FT.	FOOT, FEET
FTG	FOOTING
FV	FLUSH VALVE
°	DEGREE
G	GAS
GV	GATE VALVE
GB	GRADE BREAK
HDPE	HIGH DENSITY POLYETHYLENE
HDPE-NP	NON-PERFORATED HIGH DENSITY POLYETHYLENE
HDPE-P	PERFORATED HIGH DENSITY POLYETHYLENE
HP	HIGH POINT
HOR., HORIZ.	HORIZONTAL
IN.	INCH
IE	INVERT ELEVATION
IRR.	IRRIGATION
IVGID	INCLINE VILLAGE GENERAL IMPROVEMENT DISTRICT
L	LEFT
LEN.	LENGTH
LF	LINEAR FEET
LID	LOW IMPACT DEVELOPMENT
LP	LOW POINT
LS	LUMP SUM
MH	MANHOLE
MAX.	MAXIMUM
MDD	MAXIMUM DRY DENSITY
MJ	MECHANICAL JOINT
MI.	MILE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N	NORTH
N.I.C.	NOT IN CONTRACT
NDEP	NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
NTCD	NEVADA TAHOE CONSERVATION DISTRICT
N.T.S.	NOT TO SCALE
NO.	NUMBER
OC	ON CENTER
OG	ORIGINAL GRADE
OH(E/T)	OVERHEAD ELECTRIC OR TELEPHONE LINES
±	PLUS OR MINUS
P	PIPE
PT.	POINT
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT
PC	POINT OF CURVATURE
PI	POINT OF INFLECTION
PIP	PROTECT IN PLACE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
POC	POINT ON CURVE
POS	POSITIVE
PRC	POINT OF REVERSE CURVE
PSI	POUNDS PER SQUARE INCH
PL	PROPERTY LINE
PO	PUSH ON
PUE	PUBLIC UTILITY EASEMENT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REVEG	REVEGATATION
RLC	ROCK LINED CHANNEL
RPM	RESOURCE PROTECTION MEASURES
RT./R	RIGHT
RWQCB	REGIONAL WATER QUALITY CONTROL BOARD
R/W, ROW	RIGHT-OF-WAY
SS	SANITARY SEWER, STAINLESS STEEL
SSCO.	SANITARY SEWER CLEAN OUT
SSMH	SANITARY SEWER MANHOLE
S	SLOPE
S	SOUTH
SF	SQUARE FOOT/FEET
SHT	SHEET
SN	SNAG
STD	STANDARD
SDR	STANDARD DIMENSION RATIO
SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS
STA	STATION
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
TBC	TOP BACK OF CURB
TOC	TOP OF CURB
TRPA	TAHOE REGIONAL PLANNING AGENCY
TW	TOP OF WALL
TYP	TYPICAL
UGE	UNDERGROUND ELECTRIC LINES
UGT	UNDERGROUND TELEPHONE LINES
USFS	UNITED STATES FOREST SERVICE
VC	VERTICAL CURVE
VG	VALLEY GUTTER
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INFLECTION
VPT	VERTICAL POINT OF TANGENT
W	WATER
WL	WATERLINE
W	WEST
W/	WITH
WM	WATER METER

UTILITIES

CABLE TELEVISION	CHARTER COMMUNICATIONS, (775) 588-1077
NATURAL GAS	SOUTHWEST GAS, (877) 860-6022
ELECTRIC	N.V. ENERGY, (775) 834-4444
STORM DRAIN	WASHOE COUNTY PUBLIC WORKS (775) 328-2040
SEWER AND WATER	IVGID PUBLIC WORKS, (775) 832-1203
PHONE	FRONTIER, (775) 782-0966, ATT (800) 288-2020
USA DIGS	(800) 642-2444 OR 811

HORIZONTAL AND VERTICAL PROJECTION

VERTICAL CONTROL IS NAVD 88.
HORIZONTAL CONTROL IS NEVADA STATE PLANE WEST, NAD 83, (U.S. FEET)

LEGEND

NOTE: LEGENDS PROVIDED ON INDIVIDUAL PLAN SHEETS OVERRIDES THIS LEGEND

EXISTING	PROPOSED
MAJOR CONTOUR	MAJOR CONTOUR
MINOR CONTOUR	MINOR CONTOUR
6240 EXISTING MAJOR CONTOUR LABEL	6240 MAJOR CONTOUR LABEL
5+00 EXISTING ALIGNMENT	5+00 CENTERLINE ALIGNMENT
EXISTING GRADE (SECTION VIEW)	GRADING DAYLIGHT LINE
PROPERTY LINE	FLOODPLAIN BOUNDARY
FENCE	REMOVE TREE
EDGE OF PAVEMENT	PLACE BOULDER
CULVERT / STORM DRAIN LINE	DW DEWATERING PIPE
CATCH BASIN	CONSTRUCTION ACCESS ROUTE
FLARED END SECTION	CONSTRUCTION STAGING AREA
CHANNEL	ROCK ENERGY DISSIPATOR / ROCK LINED CHANNEL
18JP TREE - (DIAMETER) JEFFREY PINE	EQUIPMENT EXCLUSION BOUNDARY
18SN (DIAMETER) SNAG	EX. BUILDING
FIRE HYDRANT	RESTORATION AREA
CONCRETE CURB & GUTTER	DEMO ARE
CONTROL POINT	COFFER DAM
SIGN	FF FILTER FENCE
CONCRETE BOX CULVERT HEADWALL	CLF CONSTRUCTION LIMIT FENCING
UTILITY POLE AND GUY WIRE	DEWATERING AREA
EX. OHP OVERHEAD ELECTRIC	PAVING
UG UG UNDERGROUND ELECTRIC	GRADE BREAK
GAS GAS LINE	STORM DRAIN W/ FLARED END SECTION
SS SANITARY SEWER LINE	BURKE CREEK CHANNEL RESTORATION
W WATER LINE	

3 / D1.1 — SECTION OR DETAIL IDENTIFICATION; NUMBER OF SHEET ON WHICH SECTION OR DETAIL IS DRAWN

3 / - — SECTION OR DETAIL IDENTIFICATION; SYMBOL FOR DETAIL ON THE SAME SHEET

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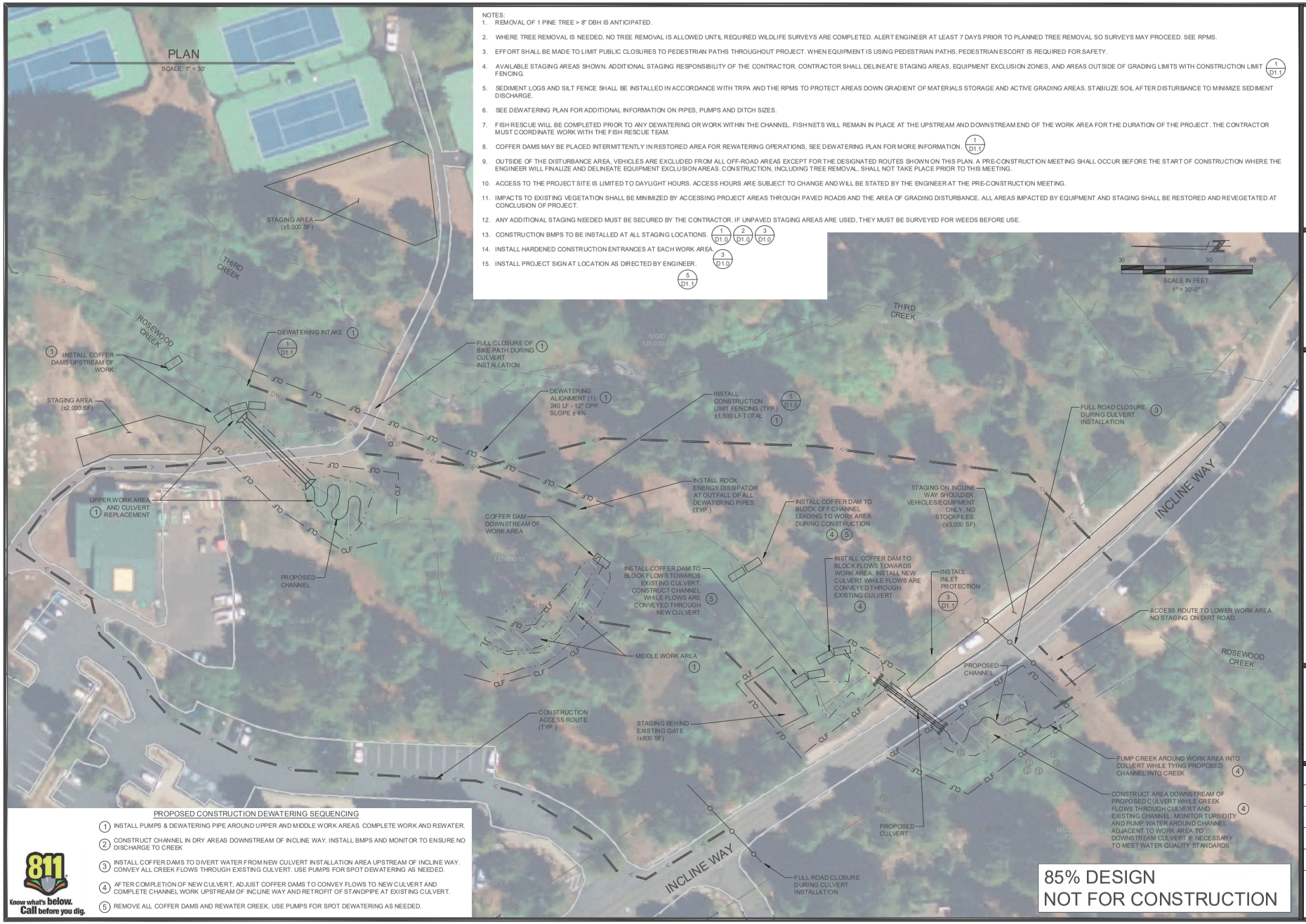
85% DESIGN
NOT FOR CONSTRUCTION

Nevada Tahoe Conservation District

NOTES & LEGEND
LOWER ROSEWOOD CREEK AOP

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	2/23/2026
SCALE	AS SHOWN
PROJECT	LRWC - 85%
SHEET	ii



NOTES:

1. REMOVAL OF 1 PINE TREE > 8" DBH IS ANTICIPATED.
2. WHERE TREE REMOVAL IS NEEDED, NO TREE REMOVAL IS ALLOWED UNTIL REQUIRED WILDLIFE SURVEYS ARE COMPLETED. ALERT ENGINEER AT LEAST 7 DAYS PRIOR TO PLANNED TREE REMOVAL SO SURVEYS MAY PROCEED. SEE RPMS.
3. EFFORT SHALL BE MADE TO LIMIT PUBLIC CLOSURES TO PEDESTRIAN PATHS THROUGHOUT PROJECT. WHEN EQUIPMENT IS USING PEDESTRIAN PATHS, PEDESTRIAN ESCORT IS REQUIRED FOR SAFETY.
4. AVAILABLE STAGING AREAS SHOWN. ADDITIONAL STAGING RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL DELINEATE STAGING AREAS, EQUIPMENT EXCLUSION ZONES, AND AREAS OUTSIDE OF GRADING LIMITS WITH CONSTRUCTION LIMIT FENCING. (1 / D1.1)
5. SEDIMENT LOGS AND SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH TRPA AND THE RPMS TO PROTECT AREAS DOWN GRADIENT OF MATERIALS STORAGE AND ACTIVE GRADING AREAS. STABILIZE SOIL AFTER DISTURBANCE TO MINIMIZE SEDIMENT DISCHARGE.
6. SEE DEWATERING PLAN FOR ADDITIONAL INFORMATION ON PIPES, PUMPS AND DITCH SIZES.
7. FISH RESCUE WILL BE COMPLETED PRIOR TO ANY DEWATERING OR WORK WITHIN THE CHANNEL. FISH NETS WILL REMAIN IN PLACE AT THE UPSTREAM AND DOWNSTREAM END OF THE WORK AREA FOR THE DURATION OF THE PROJECT. THE CONTRACTOR MUST COORDINATE WORK WITH THE FISH RESCUE TEAM.
8. COFFER DAMS MAY BE PLACED INTERMITTENTLY IN RESTORED AREA FOR REWATERING OPERATIONS, SEE DEWATERING PLAN FOR MORE INFORMATION. (1 / D1.1)
9. OUTSIDE OF THE DISTURBANCE AREA, VEHICLES ARE EXCLUDED FROM ALL OFF-ROAD AREAS EXCEPT FOR THE DESIGNATED ROUTES SHOWN ON THIS PLAN. A PRE-CONSTRUCTION MEETING SHALL OCCUR BEFORE THE START OF CONSTRUCTION WHERE THE ENGINEER WILL FINALIZE AND DELINEATE EQUIPMENT EXCLUSION AREAS. CONSTRUCTION, INCLUDING TREE REMOVAL, SHALL NOT TAKE PLACE PRIOR TO THIS MEETING.
10. ACCESS TO THE PROJECT SITE IS LIMITED TO DAYLIGHT HOURS. ACCESS HOURS ARE SUBJECT TO CHANGE AND WILL BE STATED BY THE ENGINEER AT THE PRE-CONSTRUCTION MEETING.
11. IMPACTS TO EXISTING VEGETATION SHALL BE MINIMIZED BY ACCESSING PROJECT AREAS THROUGH PAVED ROADS AND THE AREA OF GRADING DISTURBANCE. ALL AREAS IMPACTED BY EQUIPMENT AND STAGING SHALL BE RESTORED AND REVEGETATED AT CONCLUSION OF PROJECT.
12. ANY ADDITIONAL STAGING NEEDED MUST BE SECURED BY THE CONTRACTOR. IF UNPAVED STAGING AREAS ARE USED, THEY MUST BE SURVEYED FOR WEEDS BEFORE USE.
13. CONSTRUCTION BMPS TO BE INSTALLED AT ALL STAGING LOCATIONS. (1 / D1.0) (2 / D1.0) (3 / D1.0)
14. INSTALL HARDENED CONSTRUCTION ENTRANCES AT EACH WORK AREA. (3 / D1.0)
15. INSTALL PROJECT SIGN AT LOCATION AS DIRECTED BY ENGINEER. (5 / D1.1)

PROPOSED CONSTRUCTION DEWATERING SEQUENCING

1. INSTALL PUMPS & DEWATERING PIPE AROUND UPPER AND MIDDLE WORK AREAS. COMPLETE WORK AND REWATER.
2. CONSTRUCT CHANNEL IN DRY AREAS DOWNSTREAM OF INCLINE WAY. INSTALL BMPS AND MONITOR TO ENSURE NO DISCHARGE TO CREEK
3. INSTALL COFFER DAMS TO DIVERT WATER FROM NEW CULVERT INSTALLATION AREA UPSTREAM OF INCLINE WAY. CONVEY ALL CREEK FLOWS THROUGH EXISTING CULVERT. USE PUMPS FOR SPOT DEWATERING AS NEEDED.
4. AFTER COMPLETION OF NEW CULVERT, ADJUST COFFER DAMS TO CONVEY FLOWS TO NEW CULVERT AND COMPLETE CHANNEL WORK UPSTREAM OF INCLINE WAY AND RETROFIT OF STANDPIPE AT EXISTING CULVERT.
5. REMOVE ALL COFFER DAMS AND REWATER CREEK. USE PUMPS FOR SPOT DEWATERING AS NEEDED.

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STAGING, ACCESS, BMPS & DEWATERING PLAN

LOWER ROSEWOOD CREEK AOP

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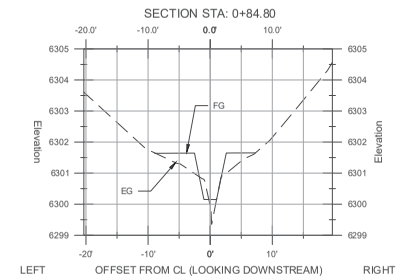
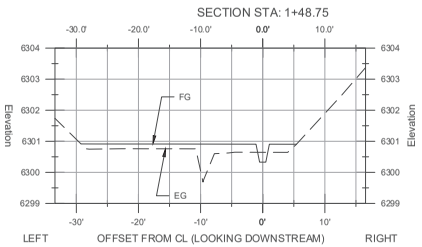
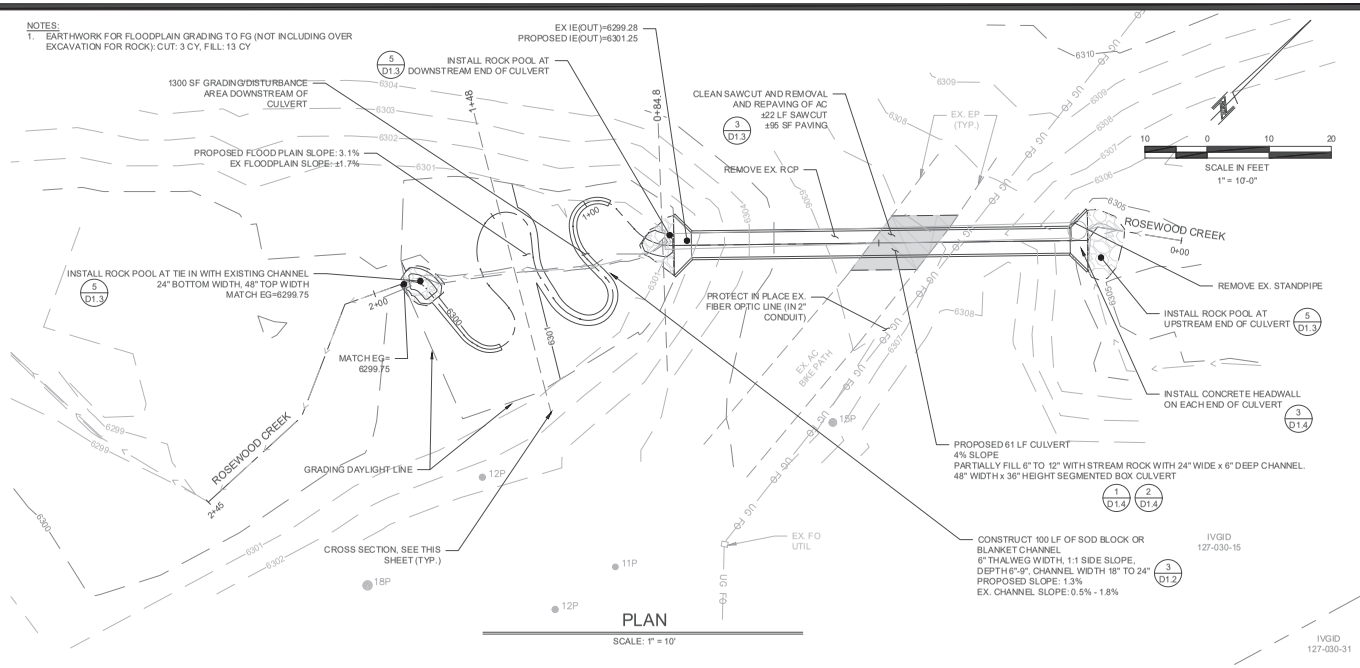
DATE	2/23/2026
SCALE	AS SHOWN
PROJECT	LRWC - 85%
SHEET	iii



PROPOSED CROSS SECTIONS

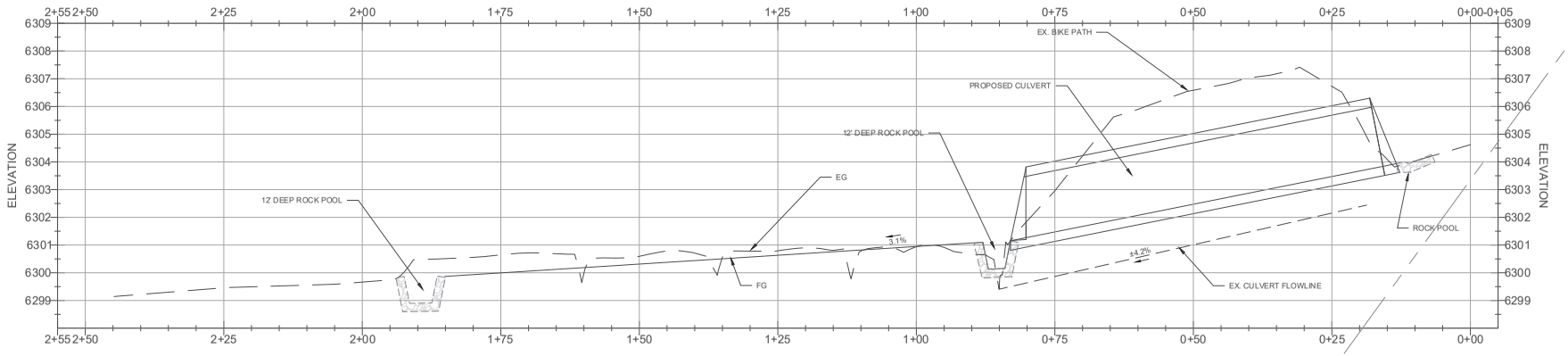
HORIZONTAL SCALE: 1" = 10', VERTICAL SCALE: 1" = 2', H:V=1:5





PLAN

SCALE: 1" = 10'



PROPOSED CREEK PROFILE

HORIZONTAL SCALE: 1" = 10', VERTICAL SCALE: 1" = 2', H:V= 1:5

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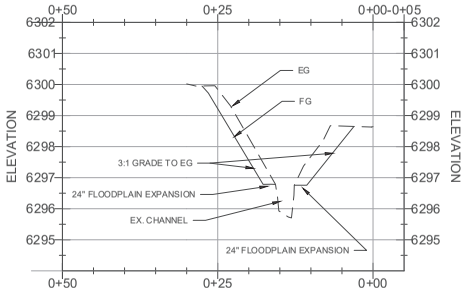
CULVERT REPLACEMENT & GRADING PLAN

LOWER ROSEWOOD CREEK AOP

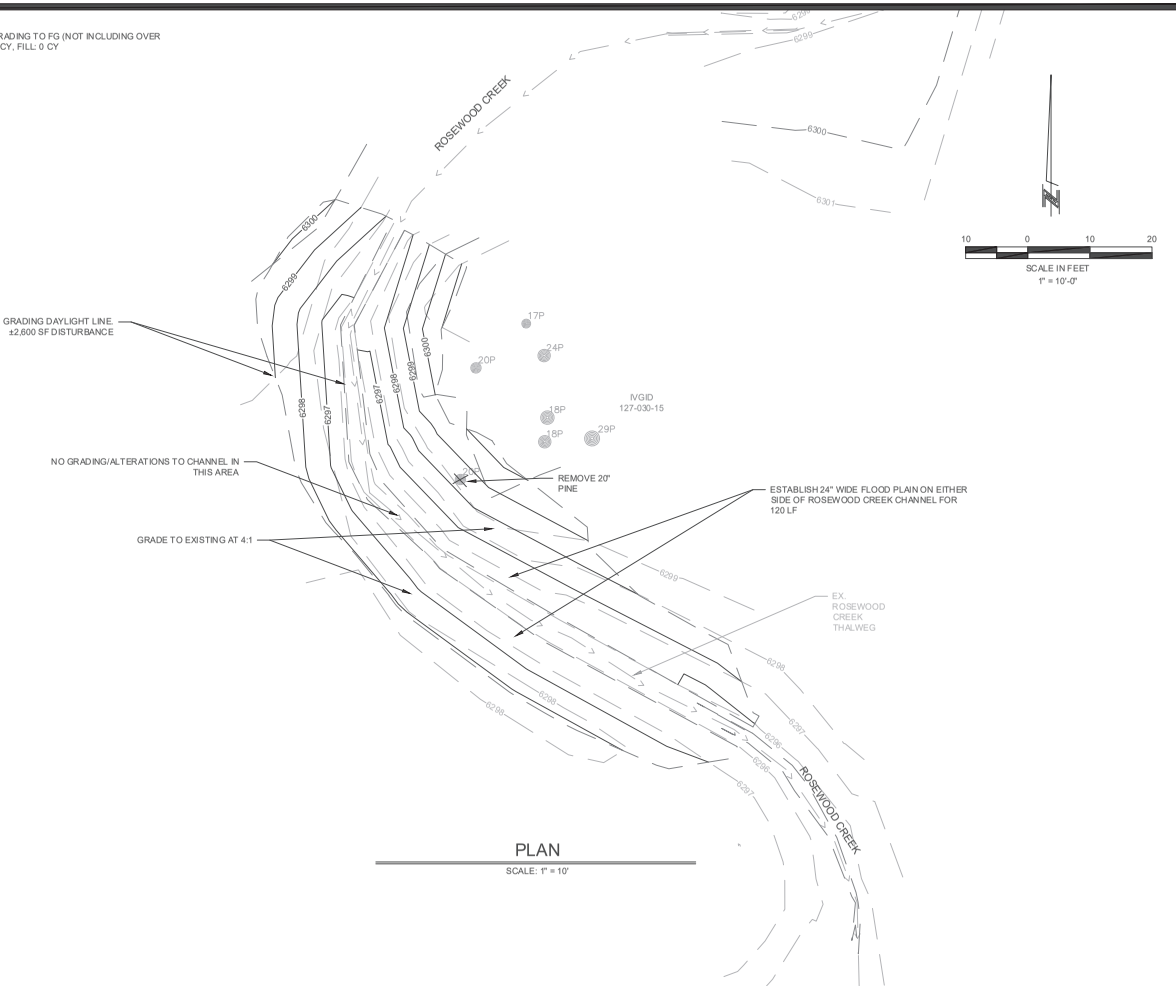
DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	2/23/2026
SCALE	AS SHOWN
PROJECT	LRWC - 85%
SHEET	C1.0

NOTES:
1. EARTHWORK FOR FLOODPLAIN GRADING TO FG (NOT INCLUDING OVER EXCAVATION FOR ROCK): CUT: 42 CY, FILL: 0 CY



TYPICAL CROSS SECTION

HORIZONTAL SCALE: 1" = 10', VERTICAL SCALE: 1" = 2', H:V=1:5



PLAN

SCALE: 1" = 10'

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GRADING PLAN

LOWER ROSEWOOD CREEK AOP

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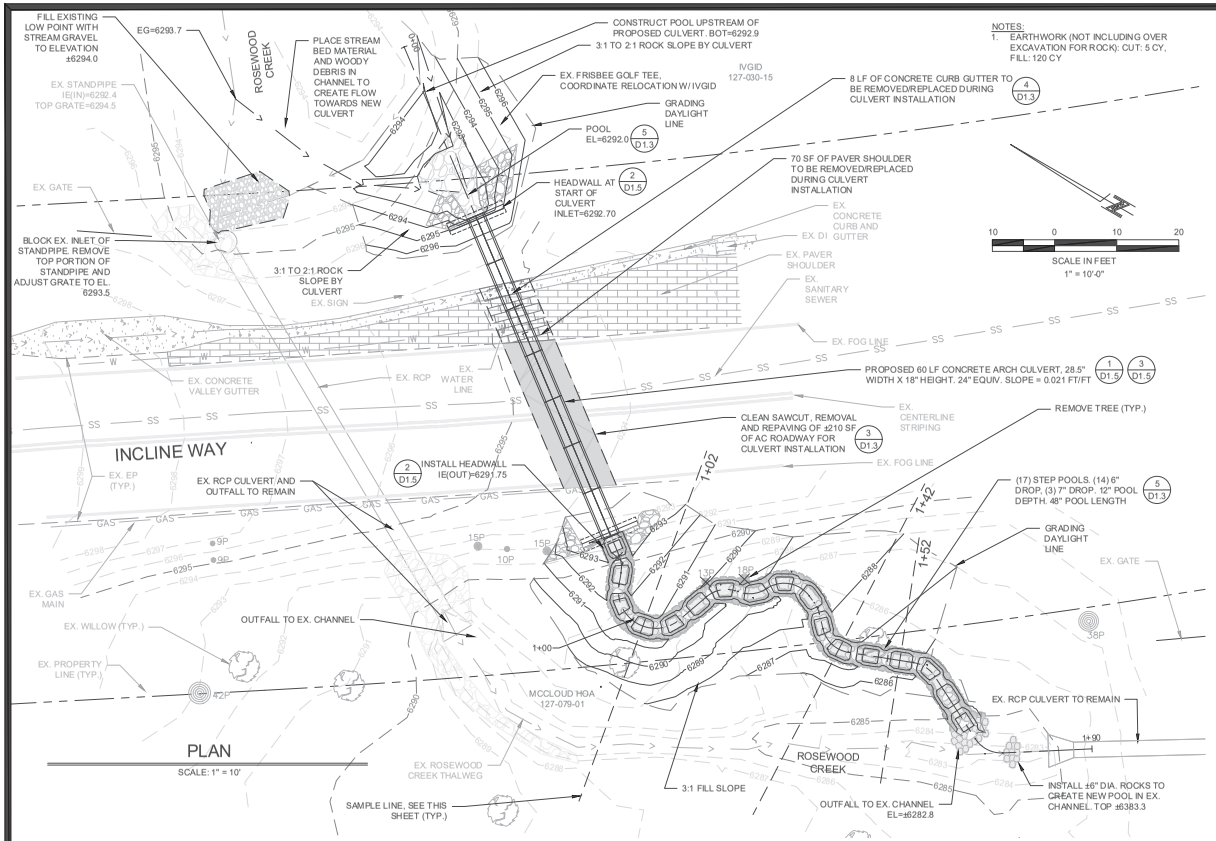
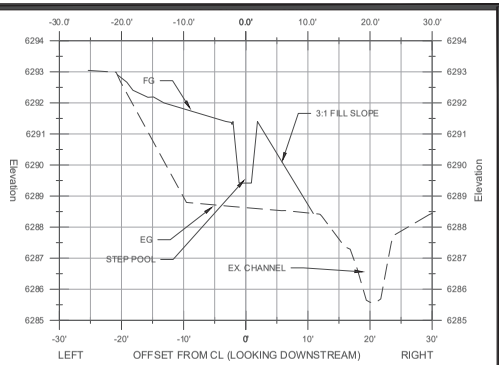
SHEET	C1.1



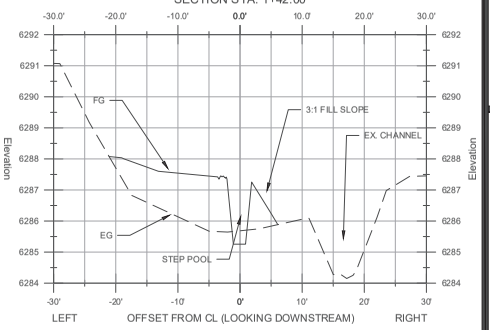
PLAN

SCALE: 1" = 10'

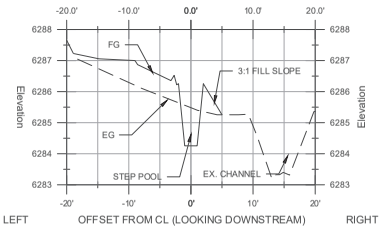
NOTES:
1. EARTHWORK (NOT INCLUDING OVER EXCAVATION FOR ROCK): CUT: 5 CY, FILL: 120 CY



SECTION STA: 1+42.00

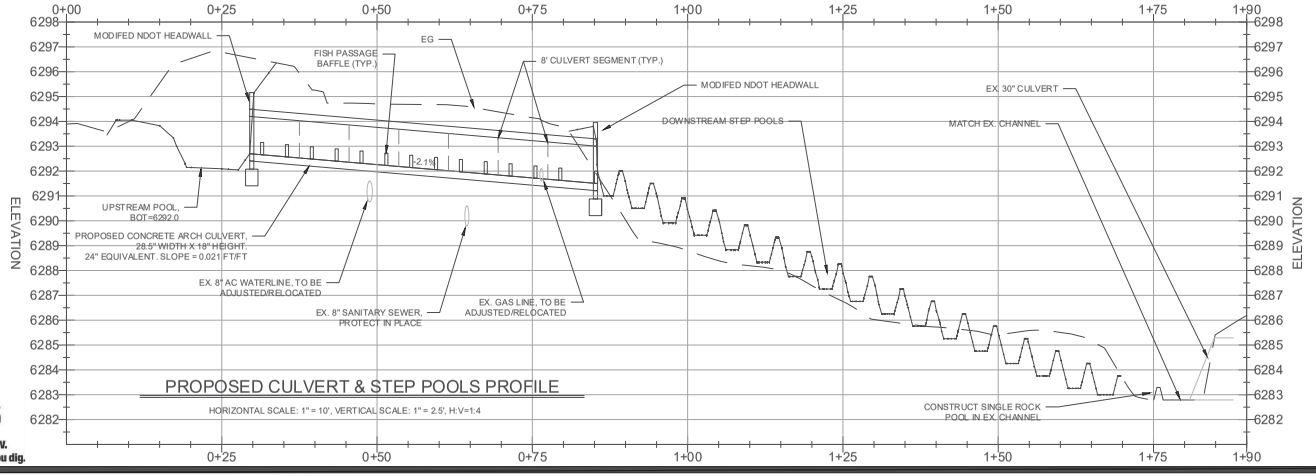


SECTION STA: 1+52.00



PROPOSED CROSS SECTIONS

HORIZONTAL SCALE: 1" = 10',
VERTICAL SCALE: 1" = 2', H:V=1:5



PROPOSED CULVERT & STEP POOLS PROFILE

HORIZONTAL SCALE: 1" = 10', VERTICAL SCALE: 1" = 2.5', H:V=1:4

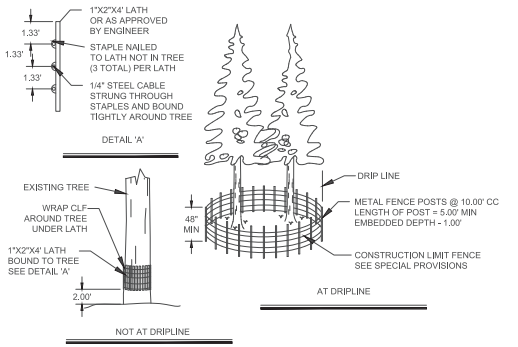
811 Know what's below. Call before you dig.

85% DESIGN
NOT FOR CONSTRUCTION

Nevada Tahoe Conservation District

CULVERT & GRADING PLAN
LOWER ROSEWOOD CREEK AOP

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	2/23/2026
SCALE	AS SHOWN
PROJECT	LRWC - 85%
SHEET	C1.2

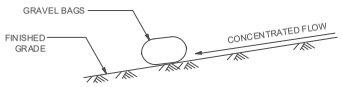


NOTE:
1. CLF AND TREE PROTECTION FENCE SHALL BE A MINIMUM OF 48" HIGH. FOR TREES WITH DRIPLINES THAT OVERHANG THE CONSTRUCTION AREAS, THE LOCATION OF THE TREE PROTECTION FENCE SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER AND/OR THE TRPA AT THE PREGRADE MEETING.
2. THE DETAIL SHOWN IS FOR TREE PROTECTION. MATERIAL AND SPACING SHOWN ALSO APPLIES TO CLF.
3. QUANTITY OF FILTER FENCE AND CONSTRUCTION LIMIT FENCE DOES NOT INCLUDE MINIMUM LIMITS FOR TREE PROTECTION. TREE PROTECTION FENCING TO BE PER DETAIL THIS SHEET AND/OR AS DETERMINED IN THE FIELD.

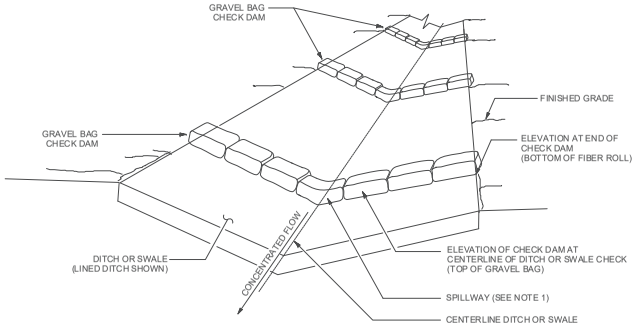
CONSTRUCTION LIMIT FENCE & TREE PROTECTION

SCALE: N.T.S.

1 / D1.0



SECTION



PERSPECTIVE

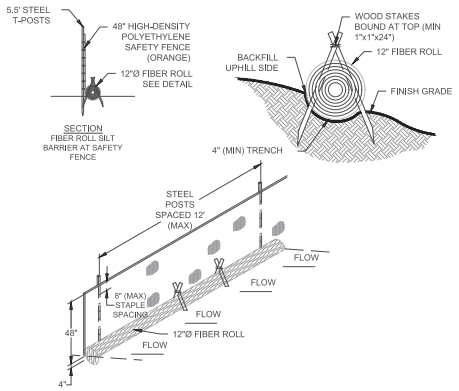
TEMPORARY CHECK DAM NOTES:

1. CHECK DAM DIMENSIONS TO BE VERIFIED BY CIVIL ENGINEER.
2. ONLY CLEAN/WASHED GRAVEL MUST BE USED IN BAGS

TEMPORARY CHECK DAM

SCALE: N.T.S.

4 / D1.0



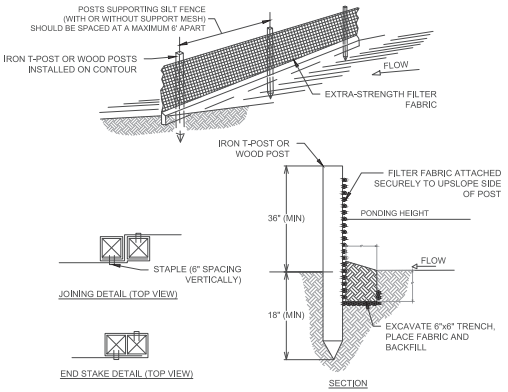
FIBER ROLL NOTES:

1. FIBER ROLL SHALL NOT BE MADE FROM STRAW. FIBER ROLLS SHALL BE BOUND BY HIGH STRENGTH COIR NETTING, AND HAVE A MINIMUM WEIGHT OF 5 LBS PER LINEAL FOOT.
2. ORANGE SAFETY FENCE IS INTENDED TO PROTECT FIBER ROLLS FROM COMPRESSION BY VEHICLES, CONSTRUCTION EQUIPMENT, EXT. FENCES SHALL BE HIGH DENSITY POLYETHYLENE WITH A MESH OPENING OF APPROXIMATELY 1 INCH BY 4 INCHES AND A MINIMUM HEIGHT OF 4 FEET. SAFETY FENCE MAY BE OMITTED IN LOW TRAFFIC AREAS.
3. FIBER ROLL SILT BARRIER SHALL BE INSTALLED ALONG CONTOUR AND ON SLOPES 5H:1V OR FLATTER UNLESS OTHERWISE APPROVED BY TRPA.
4. THE INSTALLATION CONFIGURATION SHALL PREVENT RUNOFF FROM LEAVING THE SITE OR ENTERING A WATERCOURSE WITHOUT PASSING THROUGH A SILT BARRIER.
5. THE MAXIMUM LENGTH OF SLOPE DRAINING TO THE SILT BARRIER SHALL BE 100 FEET.
6. FIBER ROLL SHALL BE INSTALLED BY SHAPING A 4 INCH DEEP FURROW TO MATCH THE SHAPE OF THE LOG, SECURING IN FURROW WITH WOOD STAKES, AND TAMPING THE GROUND AROUND THE FIBER ROLL TO FILL VOIDS BETWEEN THE LOG AND THE GROUND.

FIBER ROLL SILT BARRIER

SCALE: N.T.S.

2 / D1.0



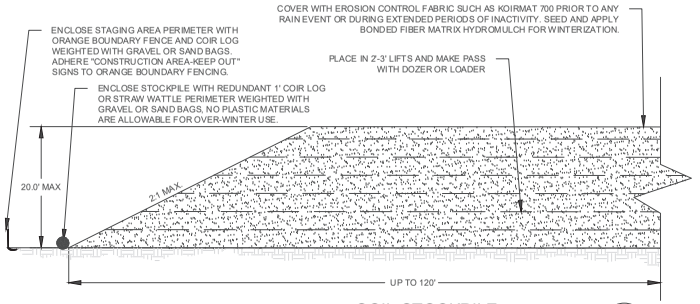
SILT FENCE NOTES:

1. USED IN AREAS WHERE SHEET FLOW OCCURS.
2. DO NOT USE IN STREAMS, CHANNELS, OR ANYWHERE FLOW IS CONCENTRATED. DO NOT USE SILT FENCES TO DIVERT FLOW.
3. DO NOT USE BELOW SLOPES SUBJECT TO CREEP, SLUMPING, OR LANDSLIDES.
4. SILT FENCE SHOULD BE WOVEN POLYPROPYLENE WITH A MINIMUM WIDTH OF 36 INCHES AND A MINIMUM TENSILE STRENGTH OF 100 LB FORCE.
5. INSTALL ALONG A LEVEL CONTOUR SO WATER DOES NOT POND MORE THAT 1.5 FEET AT ANY POINT ALONG THE SILT FENCE.
6. THE MAXIMUM LENGTH OF SLOPE DRAINING TO ANY POINT ALONG THE SILT FENCE SHOULD BE 200 FEET OR LESS.
7. THE MAXIMUM SLOPE PERPENDICULAR TO THE FENCE LINE SHOULD BE 1:1.
8. PROVIDE SUFFICIENT ROOM FOR RUNOFF TO POND BEHIND THE FENCE AND TO ALLOW SEDIMENT REMOVAL EQUIPMENT TO PASS BETWEEN THE SILT FENCE AND TOES OF SLOPES OR OTHER OBSTRUCTIONS.
9. TURN THE ENDS OF THE FILTER FENCE UPHILL TO CREATE A "J" SHAPE, TO PREVENT STORMWATER FROM FLOWING AROUND THE FENCE.
10. LEAVE AN UNDISTURBED OR STABILIZED AREA IMMEDIATELY DOWN SLOPE FROM THE FENCE WHERE FEASIBLE.
11. SILT FENCES SHOULD REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
12. REMOVE SEDIMENT WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.

FILTER FENCE SILT BARRIER

SCALE: N.T.S.

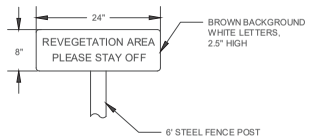
3 / D1.0



SOIL STOCKPILE

SCALE: N.T.S.

5 / D1.0



REVEGETATION SIGN

SCALE: N.T.S.

6 / D1.1

811 Know what's below. Call before you dig.

85% DESIGN
NOT FOR CONSTRUCTION

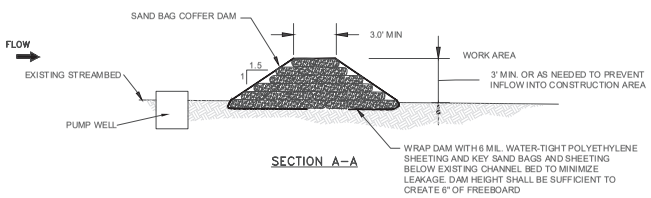
Nevada Tahoe Conservation District

DETAILS

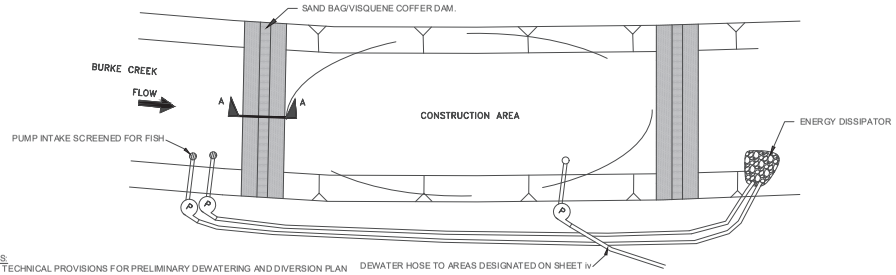
LOWER ROSEWOOD CREEK AOP

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	2/23/2026
SCALE	AS SHOWN
PROJECT	LRWC - 85%

SHEET D1.0

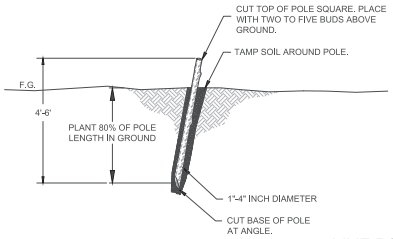


SECTION A–A



DIVERSION NOTES:
1. SEE SPECIAL TECHNICAL PROVISIONS FOR PRELIMINARY DEWATERING AND DIVERSION PLAN
2. CONTRACTOR RESPONSIBLE TO FINALIZE SWPPP AND DEWATERING AND DIVERSION PLAN. CONTRACTOR RESPONSIBLE FOR GAINING FINAL APPROVALS FOR CONSTRUCTION METHODS FOR DIVERSION AND DEWATERING FROM ALL APPLICABLE AGENCIES

DEWATERING DIVERSION
SCALE: N.T.S.
1 D1.1

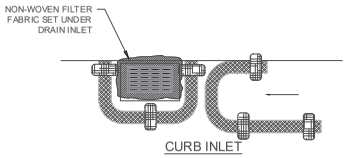


LIVE POLE NOTES
REVEGETATION AND REPLACEMENT PLANTINGS SHALL CONSIST OF LOCALLY-OBTAINED, NATIVE SPECIES, PER SPECIFICATIONS.

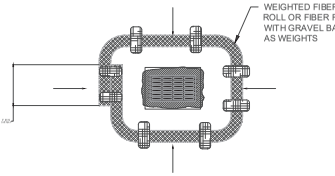
WILLOW PREPARATION
1. POLE CUTTINGS SHALL BE TAKEN WITH SHARP PRUNING SHEARS OR WITH A SHARP SAW BLADE, WITHOUT CAUSING INJURY TO THE BARK OR SPLITTING OF THE ENDS. THE BUTT END OF THE CUTTING SHALL BE ANGLED AND THE TOP END SHALL BE SQUARE.
2. POLES SHALL BE FROM 4 TO 6 FOOT IN LENGTH AND 1 TO 4 INCHES IN DIAMETER. POLES SHALL BE CUT SO THAT A TERMINAL BUD SCAR IS WITHIN 1 TO 4 INCHES OF THE TOP, AT LEAST 2 BUDS AND/OR BUD SCARS SHALL BE ABOVE THE GROUND AFTER PLANTING. SIDE BRANCHES SHALL BE CUT WITH SHARP PRUNING SHEARS, FLUSH WITH POLE, WITHOUT CAUSING INJURY TO BUDS.

INSTALLATION
1. LIVE POLES SHALL BE INSTALLED ON THE SAME DAY AS CUT OR SOAKED/FULLY EMERGED IN WATER IMMEDIATELY AFTER HARVESTING UNTIL PLANTING PRIOR TO INSTALLATION.
2. THE POLE SHALL BE INSTALLED AS DEEP AS POSSIBLE INTO THE SOIL, PREFERABLY WITH 80% OF ITS LENGTH IN CONTACT WITH NATIVE SOIL. USE OF A PILOT BAR MAY HELP WITH INSTALLATION.
3. SPECIAL CARE SHALL BE TAKEN TO NOT DAMAGE THE BUDS, SPLIT POLE ENDS, OR STRIP THE BARK DURING INSTALLATION.

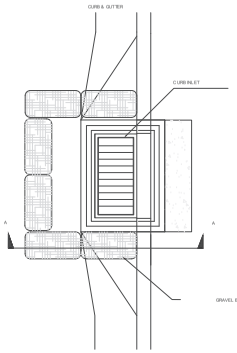
LIVE POLE STAKE
SCALE: N.T.S.
2 D1.1



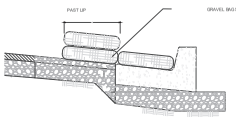
CURB INLET



SHEET FLOW INLET



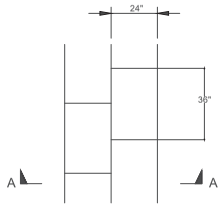
ALTERNATE CURB INLET



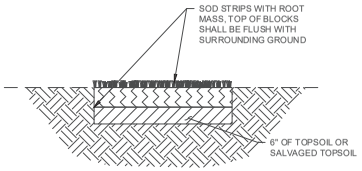
SECTION A-A

DI PROTECTION NOTES:
1. FIBER ROLLS SHALL NOT BE MADE FROM STRAW, WITH THE EXCEPTION OF WEED-FREE RICE STRAW. FIBER ROLLS SHALL HAVE A MINIMUM WEIGHT OF 2.5 LBS PER LINEAR FOOT. FIBER ROLLS SHALL BE REMOVED AT THE END OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.
2. GRAVEL BAGS SHALL BE FILLED WITH ¾" DIA, CLEANED, WASHED GRAVEL. SAND BAGS ARE NOT AN ACCEPTABLE SUBSTITUTE.
3. INSPECT AND REPAIR FIBER ROLLS EACH DAY AND AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN ONE THIRD OF THE FILTER DEPTH HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DISPOSED OF PROPERLY.
4. SEDIMENT AND GRAVEL DEPOSITED ON ROADWAYS SHALL BE IMMEDIATELY REMOVED.
5. IN HIGH TRAFFIC AREAS, MARK DRAIN INLET PROTECTION WITH VISIBLE BARRIERS SUCH AS SAFETY CONES.
6. REMOVE DRAIN INLET PROTECTION AFTER THE SURROUNDING AREA HAS BEEN STABILIZED.
7. ADDITIONAL OR OVERLAPPING GRAVEL BAGS MAY BE NECESSARY AS DIRECTED BY ENGINEER FOR PROPER FUNCTIONING OF BMP.

DRAINAGE INLET PROTECTION
SCALE: N.T.S.
3 D1.1



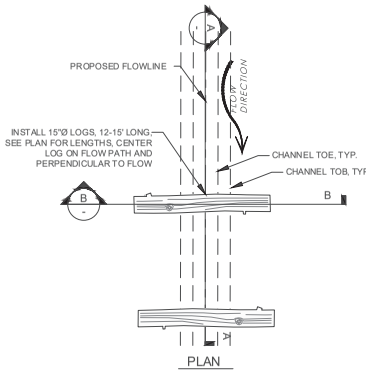
SOD STRIP LAYOUT PLAN



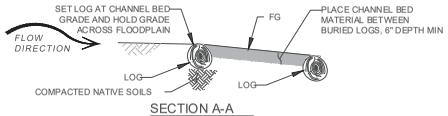
SECTION A-A

SOIL/SEED NOTES
REVEGETATION AND REPLACEMENT PLANTINGS SHALL CONSIST OF LOCALLY-OBTAINED, NATIVE SPECIES, PER SPECIFICATIONS.

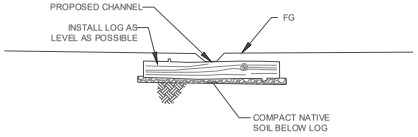
SALVAGED SOD
SCALE: N.T.S.
4 D1.1



PLAN



SECTION A-A
PROFILE VIEW



SECTION B-B
SECTION VIEW

BURIED LOG PROTECTION
SCALE: N.T.S.
5 D1.1

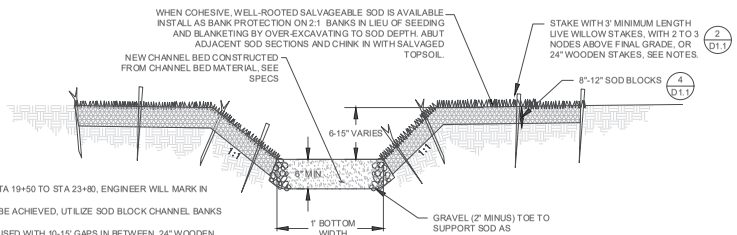
85% DESIGN
NOT FOR CONSTRUCTION

811 Know what's below. Call before you dig.

Nevada Tahoe Conservation District

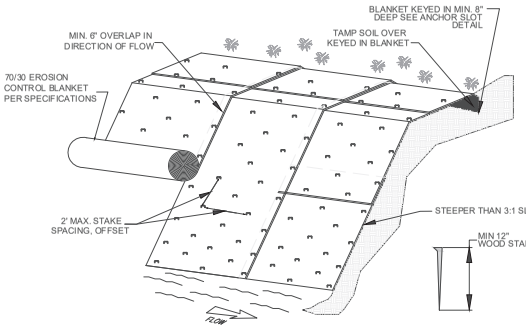
DETAILS
LOWER ROSEWOOD CREEK AOP

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	2/23/2026
SCALE	AS SHOWN
PROJECT	LRWC - 85%
SHEET	D1.1



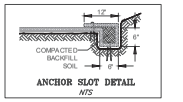
NOTES:
1. UTILIZE THIS DETAIL FROM STA 19+50 TO STA 23+80, ENGINEER WILL MARK IN FIELD.
2. IF 1:1 SIDE SLOPES CANNOT BE ACHIEVED, UTILIZE SOD BLOCK CHANNEL BANKS SHOWN IN DETAIL 3/D1.2
3. WILLOW POLES SHOULD BE USED WITH 10-15' GAPS IN BETWEEN. 24" WOODEN STAKES SHALL BE USED BETWEEN WILLOW POLE SECTIONS.
4. AREAS DESIGNATED FOR SOD SHALL HAVE A SUBGRADE BELOW THE FINAL GRADE THE SAME THICKNESS AS THE SOD (ROUGHLY 8" TO 12").
5. SOIL SHALL BE LOOSENED AT THE SURFACE AND SOD PLANTED INTO MOIST SOIL SUCH THAT THE EDGES SNUGLY ADJOIN ADJACENT SECTIONS. NEXT CHINK WITH NATIVE TOPSOIL SO THAT THE EDGES OF THE SOD ARE WELL COVERED.
6. FINAL ELEVATION OF SOD CROWNS SHALL MATCH THE PLAN ELEVATION.
7. SOD TO BE THOROUGHLY WATERED AND MAINTAINED IN A MOIST, HEALTHY CONDITION UNTIL ESTABLISHED, FOR UP TO ONE YEAR FOLLOWING PLANTING.

SOD BLANKET CHANNEL
SCALE: N.T.S.
3 D1.2

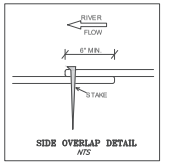


NOTES
1. SLOPE SURFACE SHALL BE SMOOTH, AND FREE OF ROCKS, DIRT CLODS, AND STICKS.
2. APPLY SEEDING AND SOIL INOCULANT TO THE BANK BEFORE INSTALLING BLANKETS (SEE SPEC.).
3 LAY BLANKETS LOOSELY AND STAKE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH BLANKETS. (SEE SPEC.).
4. DRIVE STAKES FLUSH WITH BLANKET.

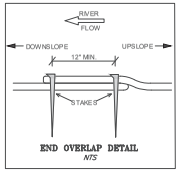
EROSION CONTROL BLANKET
SCALE: N.T.S.
2 D1.2



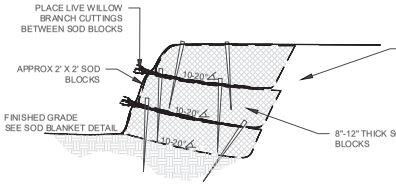
ANCHOR SLOT DETAIL
NTS



SIDE OVERLAP DETAIL
NTS

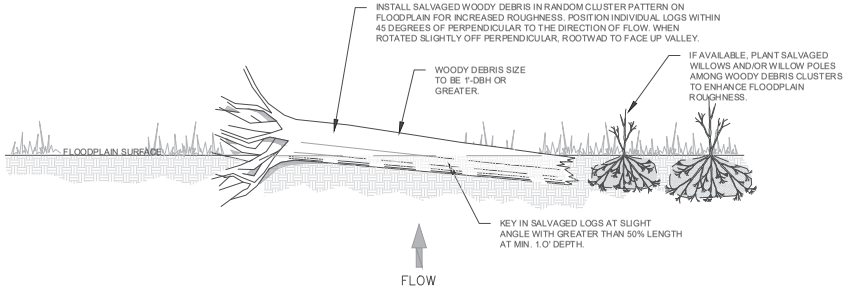


END OVERLAP DETAIL
NTS

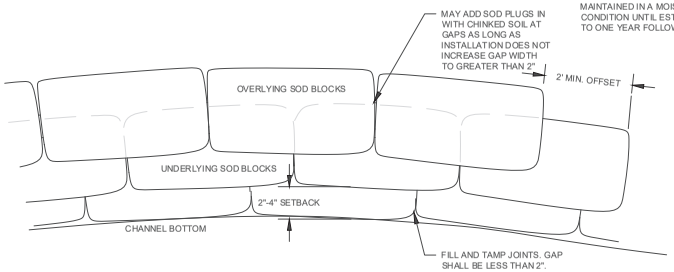


SECTION

NOTES:
1. SOD BLOCK BANKS SHOULD BE USED ON CHANNEL SECTIONS DEEPER THAN 12"
2. AREAS DESIGNATED FOR SOD SHALL HAVE A SUBGRADE BELOW THE FINAL GRADE THE SAME THICKNESS AND WIDTH AS THE SOD
3. FINAL ELEVATION OF SOD CROWNS SHALL MATCH THE PLAN ELEVATION.
4. SOD TO BE THOROUGHLY WATERED AND MAINTAINED IN A MOIST, HEALTHY CONDITION UNTIL ESTABLISHED, FOR UP TO ONE YEAR FOLLOWING PLANTING.



ENHANCED FLOODPLAIN ROUGHNESS
SCALE: N.T.S.
2 D1.4



SOD BLOCK CHANNEL BANKS
SCALE: N.T.S.
4 D1.2

Know what's below. Call before you dig.

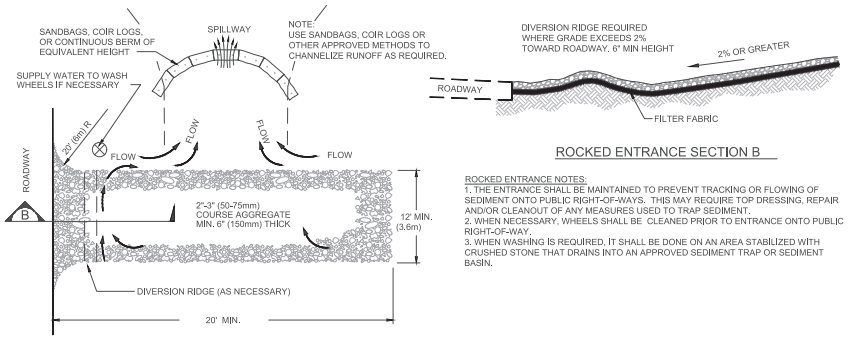
85% DESIGN
NOT FOR CONSTRUCTION

Nevada Tahoe Conservation District

DETAILS

LOWER ROSEWOOD CREEK AOP

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	2/23/2026
SCALE	AS SHOWN
PROJECT	LRWC - 85%
SHEET	D1.2



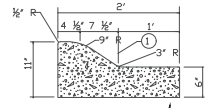
ROCKED ENTRANCE SECTION B

ROCKED ENTRANCE NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

HARDENED CONSTRUCTION ENTRANCE

SCALE: N.T.S.

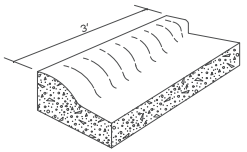
1 / D1.3



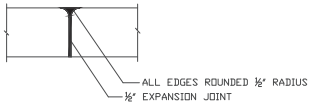
0.04747 CU. YD. PER FT

SECTION TYPE 8

6" MINIMUM TYPE 2 CLASS B COMPACTED AGGREGATE BASE



TYPICAL TRANSITION FROM ROLLED CURB TO VERTICAL FACE



ELEVATION
TYPICAL EXPANSION JOINT DETAIL

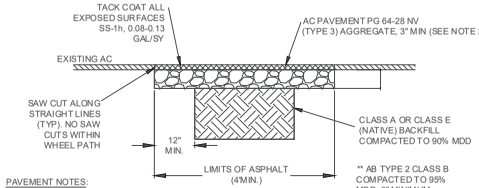
NOTES:

1. PORTLAND CEMENT CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR CONCRETE EXPOSED TO FREEZE-THAW ENVIRONMENTS.
2. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED EVERY 10 FEET. THE JOINTS SHALL BE CONSTRUCTED IN CONFORMANCE WITH SECTION 312 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
3. EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS DESIGNATED IN SECTION 312 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
4. TYPE 2, CLASS B AGGREGATE BASE SHALL CONFORM TO SECTION 200 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND SHALL BE MECHANICALLY COMPACTED IN CONFORMANCE WITH SECTION 308 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

TYPE 8 PCC CURB AND GUTTER

SCALE: N.T.S.

4 / D1.3

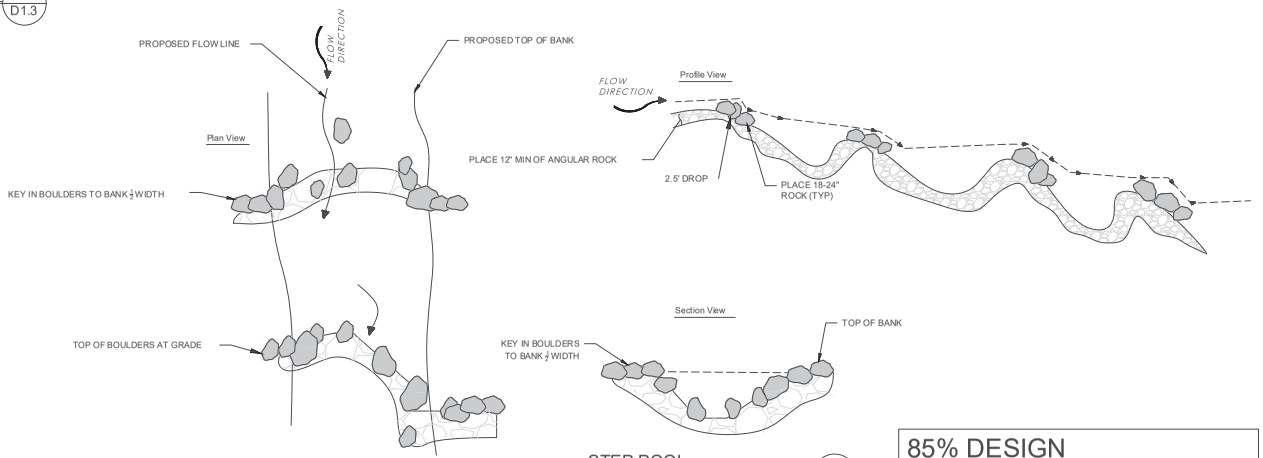


PAVEMENT NOTES:
1. PATCH WIDTH:
   A) PATCHES WILL BE 4 FOOT MINIMUM, ANY DIRECTION.
   B) IF EDGE OF PATCHING IS WITHIN 3 FEET OF EDGE OF PAVEMENT OR LIP OF GUTTER, REMOVE AND REPLACE AC PAVEMENT FROM PATCH TO THAT EDGE.
   C) FOR PATCHING IN PAVEMENT SURFACE THAT IS LESS THAN FIVE (5) YEARS OLD OR PCI>80, ENTIRE TRAVEL LANE WIDTH FOR FULL LENGTH OF PAVEMENT PATCH SHALL RECEIVE 1.5" MILL AND OVERLAY.
   D) PLACE SLURRY SEAL OR CHIP SEAL ON STREETS WITH EXISTING SLURRY SEAL OR CHIP SEAL SURFACE.
3. SURFACE TOLERANCES FOR AC PAVEMENT REPAIR SHALL CONFORM TO THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (ORANGE BOOK).
4. ASPHALT CONCRETE CONSTRUCTION MATERIALS AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (ORANGE BOOK).
5. TYPE 2 CLASS B AGGREGATE BASE SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (ORANGE BOOK).
6. ASPHALT CEMENT SHALL BE PG 64-28 NV UNLESS OTHERWISE APPROVED BY DOUGLAS COUNTY ENGINEERING. WHEN PG 64-28 NV ASPHALT CEMENT IS NOT USED, NEW ASPHALT CONCRETE SURFACE SHALL BE FOG SEALED.

PAVEMENT PATCH

SCALE: N.T.S.

3 / D1.3



STEP POOL

SCALE: N.T.S.

5 / D1.3

85% DESIGN
NOT FOR CONSTRUCTION

Know what's below. Call before you dig. 811

Nevada Tahoe Conservation District

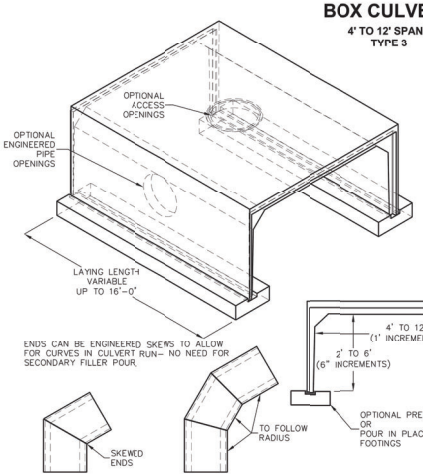
DETAILS

LOWER ROSEWOOD CREEK AOP

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	2/23/2026
SCALE	AS SHOWN
PROJECT	LRWC - 85%
SHEET	D1.3

SEGMENTAL BOX CULVERT

4' TO 12' SPANS
TYPE 3



STANDARD DESIGNS AVAILABLE MEETING ASTM C1786 HL–93 OR AASHTO HS20 IN ACCORDANCE WITH AASHTO SPECIFICATIONS.

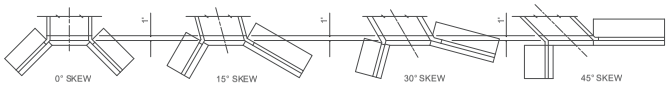
DESIGNS BASED ON SPECIAL LOADING OR DEPTHS OF BURY ARE AVAILABLE ON REQUEST. CUSTOM PIPE HOLES, ACCESS OPENINGS, AND SKEWED SECTIONS ARE AVAILABLE. STANDARD HEIGHTS AVAILABLE IN 6" INCREMENTS. CUSTOM HEIGHTS AVAILABLE.

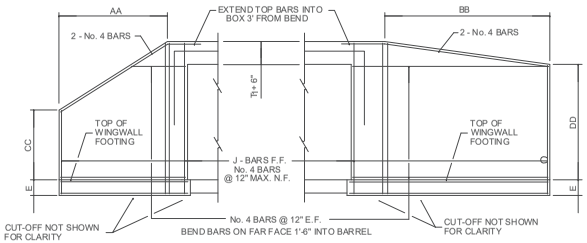
FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

B
11/24/2015
BOX CULVERTS 4-12-TYPE 3.DWG
©2015

JENSEN PRECAST EST. 1968

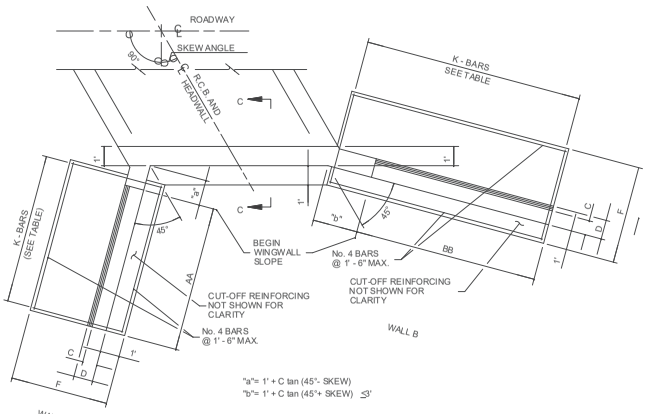
OPEN BOTTOM BOX CULVERT
SCALE: N.T.S.
1 D1.4





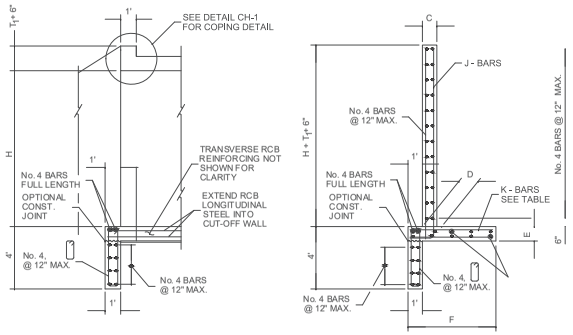
FOR BOXES WITH 0° SKEW BOTH WINGWALLS ARE AS SHOWN FOR WINGWALL A

WALL A ELEVATION WALL B



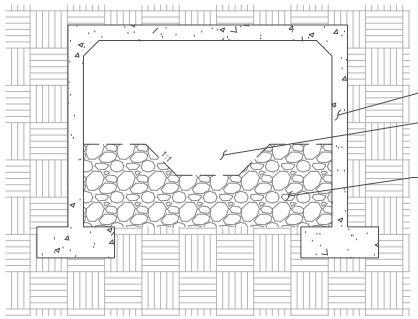
"a"= 1' + C tan (45°- SKEW)
"b"= 1' + C tan (45°+ SKEW) ≤3'

PLAN



TYPE I HEADWALL DIMENSIONS AND REINFORCING STEEL

H (FT.)	0 DEGREE SKEW AA (FT. - IN.)	BB (FT. - IN.)	CC (FT. - IN.)	DD (FT. - IN.)	15 DEGREE SKEW AA (FT. - IN.)	BB (FT. - IN.)	CC (FT. - IN.)	DD (FT. - IN.)	30 DEGREE SKEW AA (FT. - IN.)	BB (FT. - IN.)	CC (FT. - IN.)	DD (FT. - IN.)
3	6 - 3	6 - 3	2 - 2	2 - 2	5 - 9	7 - 3	2	2 - 7	5 - 3	9	1 - 10	3 - 3
4	7 - 9	7 - 9	2 - 8	2 - 8	7	9	2 - 5	3 - 2	6 - 6	11 - 3	2 - 4	3 - 11
5	9 - 3	9 - 3	3 - 3	3 - 3	8 - 3	10 - 9	2 - 11	3 - 10	7 - 9	13 - 6	2 - 9	4 - 9
6	10 - 9	10 - 9	3 - 10	3 - 10	9 - 9	12 - 9	3 - 5	4 - 6	9 - 3	15 - 9	3 - 3	5 - 7
7	12 - 3	12 - 3	4 - 4	4 - 4	11	14 - 3	3 - 11	5 - 1	10 - 6	18	3 - 8	6 - 4
8	13 - 9	13 - 9	4 - 10	4 - 10	12 - 3	16	4 - 4	5 - 8	11 - 6	20	4 - 1	7 - 1



LOW FLOW CULVERT CHANNEL
SCALE: N.T.S.
2 D1.4

H (FT.)	C (IN.)	D (IN.)	J (SIZE)	J SPACING (IN.)	K (SIZE)	K SPACING (IN.)	0 DEGREE SKEW WALL A AND B E (FT. - IN.)	F (FT. - IN.)	15 DEGREE SKEW WALL A E (FT. - IN.)	F (FT. - IN.)	15 DEGREE SKEW WALL B E (FT. - IN.)	F (FT. - IN.)	30 DEGREE SKEW WALL A E (FT. - IN.)	F (FT. - IN.)	30 DEGREE SKEW WALL B E (FT. - IN.)	F (FT. - IN.)
3	8	10	5	12	5	12	1	3 - 3	1	3 - 3	1	3 - 3	1	3 - 3	1	3 - 3
4	8	10	5	12	5	12	1	3 - 6	1	3 - 6	1	3 - 9	1	3 - 6	1	4
5	8	12	5	12	5	12	1	4 - 3	1	4	1	4 - 6	1	4	1	4 - 9
6	8	12	5	6	5	6	1	5	1	4 - 9	1	5 - 3	1	4 - 9	1	5 - 6
7	10	14	5	6	5	6	1	5 - 9	1	5 - 3	1	5 - 9	1	5 - 3	1	6 - 3
8	10	14	5	6	5	6	1 - 4	6 - 3	1 - 4	6	1 - 4	6 - 6	1 - 4	6	1 - 4	7

CONCRETE HEADWALL
SCALE: N.T.S.
3 D1.4

NOTES

1. DESIGN SPECIFICATIONS "AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 2012".
2. FOR DIMENSIONS AND REINFORCING NOT SHOWN AS WELL AS QUANTITIES, SEE TABLE.
3. CONCRETE: CLASS DA MODIFIED (MAJOR) F'C = 4,500 PSI @ 28 DAYS, CLASS D MODIFIED IN CLARK COUNTY.
4. WHERE TRAFFIC LOADS WILL BE PLACED DIRECTLY ON THE TOP SURFACE OF THE CULVERT, AND/OR UP TO 2-FEET OF FILL (AT EDGE OF PAVEMENT), PROVIDE EPOXY COATED REINFORCEMENT. APPROVED WATERPROOFING MEMBRANE MAY BE USED IN LIEU OF EA/E CONCRETE AND EPOXY COATED REINFORCING.
5. REINFORCING STEEL: ALL REINFORCING STEEL TO BE ASTM A 615 GRADE 60 OR A706 GRADE 60. DIMENSIONS RELATING TO BAR SPACING ARE CENTER TO CENTER. REINFORCING STEEL SHALL BE EMBEDDED 3-INCHES CLEAR OF BOTTOM OF FOOTING, AND 2-INCHES CLEAR OF ALL OTHER CONCRETE SURFACES.

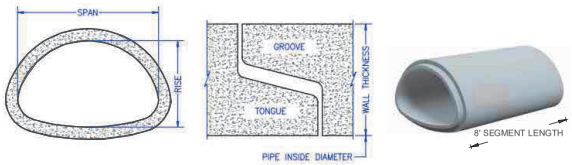
85% DESIGN
NOT FOR CONSTRUCTION

811 Know what's below. Call before you dig.

Nevada Tahoe Conservation District

DETAILS
LOWER ROSEWOOD CREEK AOP

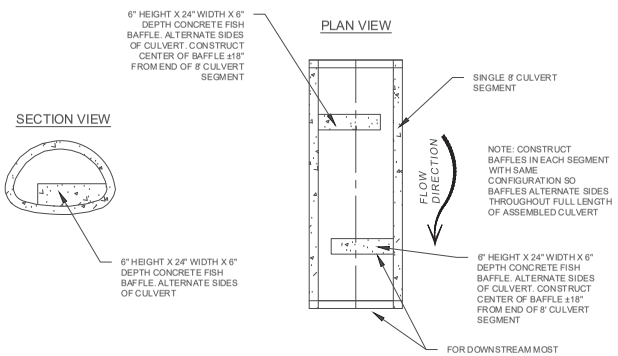
DESIGNED/DRAWN
PJ
CHECKED BY
MK
DATE
2/23/2026
SCALE
AS SHOWN
PROJECT
LRWC - 85%
SHEET
D1.4
11 OF 13



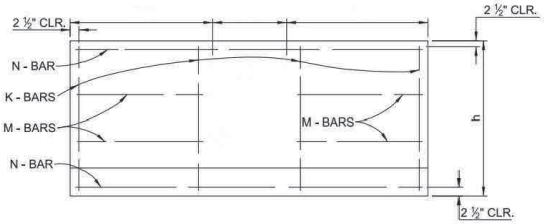
Section Thru Barrel Section Thru Joint

Table of Pipe Properties					
Equivalent Round Pipe Diameter (inches)	Rise (inches)	Span (inches)	Wall Thickness (inches)	Approx. Weight (lbs/ft)	Full Flow Water Area (ft^2)
15	11	18	3	188	1.10
18	13-1/2	22	3-1/8	239	1.65
24	18	28-1/2	3-1/2	325	2.80
30	22-1/2	36-1/4	3-1/2	392	4.40
36	26-5/8	43-3/4	4	537	6.40
42	31-5/16	51-1/8	4-1/2	696	8.80
48	36	58-1/2	5	885	11.4
54	40	65	5-1/2	1,079	14.3
60	45	73	6	1,333	17.7
72	54	88	7	1,856	25.8

24" EQUIV. SEGMENTED CONC. ARCH CULVERT — 1 / D1.5
SCALE: N.T.S.



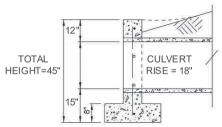
ARCH CULVERT FISH PASSAGE BAFFLES — 3 / D1.5
SCALE: N.T.S.



ELEVATION

PLAN
SINGLE RCP/HDPE

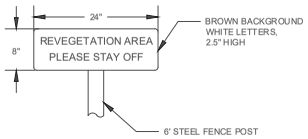
REBAR SIZE, QUANTITY AND LENGTH
K - BARS: #4 (8) @ 3' - 6"
M - BARS: #4 (4) @ 3' - 4"
N - BARS: #5 (2) @ 9' - 5"



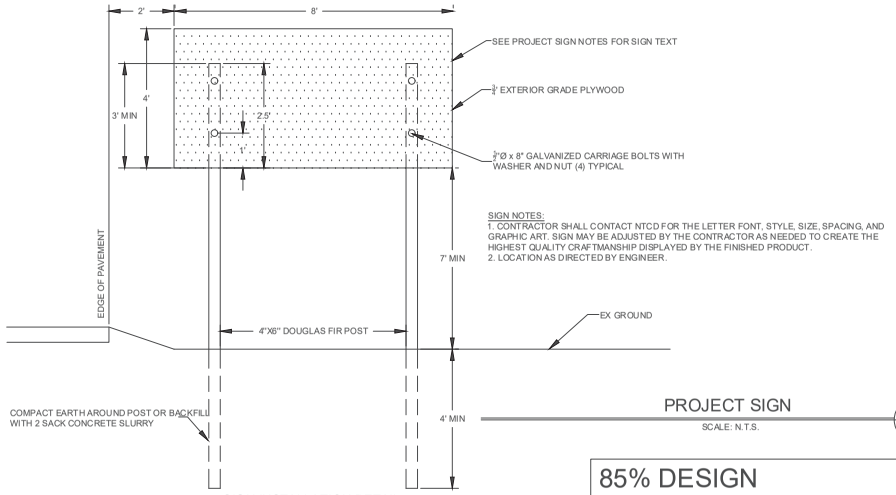
SECTION

NDOT STANDARD HEADWALL NOTES:
1. CONCRETE SHALL BE NDOT CLASS A OR AA.
2. REINFORCING STEEL SHALL BE DEFORMED BARS WITH MAXIMUM SPACING OF 18" SET 2.5□ " CLEAR OF SURFACE OF CONCRETE EXCEPT AS NOTED. BAR ENDS SHALL BE KEPT 1.5□ " CLEAR OF SURFACE OF CONCRETE. REINFORCING BARS MAY BE CUT AND BENT IN FIELD.
3. FOOTINGS SHOWN ARE OF MINIMUM DEPTH AND SHALL BE EXTENDED IF SOIL IS UNSUITABLE OR LIABLE TO SCOUR.

MODIFIED STANDARD N.D.O.T. HEADWALL — 2 / D1.5
SCALE: N.T.S.



REVEGETATION SIGN — 4 / D1.5
SCALE: N.T.S.



SIGN INSTALLATION DETAIL

PROJECT SIGN — 5 / D1.5
SCALE: N.T.S.

85% DESIGN
NOT FOR CONSTRUCTION

811 Know what's below. Call before you dig.

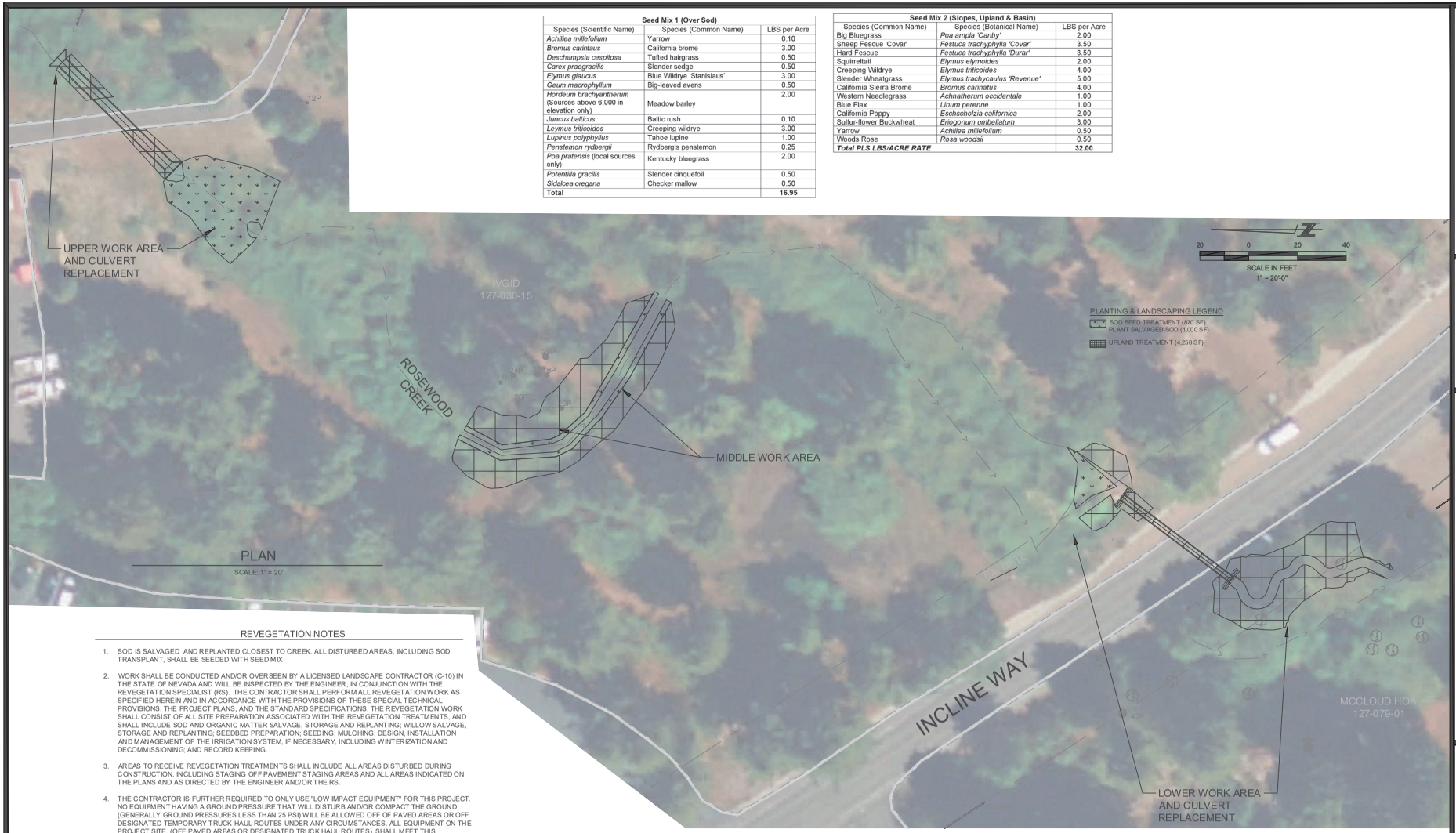
Nevada Tahoe Conservation District

DETAILS
LOWER ROSEWOOD CREEK AOP

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	2/23/2026
SCALE	AS SHOWN
PROJECT	LRWC - 85%
SHEET	D1.5

Seed Mix 1 (Over Sod)		
Species (Scientific Name)	Species (Common Name)	LBS per Acre
Achillea millefolium	Yarrow	0.10
Bromus carinfaus	California brome	3.00
Deschampsia cespitosa	Tufted hairgrass	0.50
Carex praegracilis	Slender sedge	0.50
Elymus glaucus	Blue Wildrye 'Stanislaus'	3.00
Geum macrophyllum	Big-leaved avens	0.50
Hordeum brachyantherum (Sources above 6,000 in elevation only)	Meadow barley	2.00
Juncus balticus	Baltic rush	0.10
Leymus triticoides	Creeping wildrye	3.00
Lupinus polyphyllus	Tahoe lupine	1.00
Penstemon rydbergii	Rydberg's penstemon	0.25
Poa pratensis (local sources only)	Kentucky bluegrass	2.00
Potentilla gracilis	Slender cinquefoil	0.50
Sidalcea oregana	Checker mallow	0.50
Total		**16.95**

Seed Mix 2 (Slopes, Upland & Basin)		
Species (Common Name)	Species (Botanical Name)	LBS per Acre
Big Bluegrass	*Poa ampla 'Canby'*	2.00
Sheep Fescue 'Covar'	*Festuca trachyphylla 'Covar'*	3.50
Hard Fescue	*Festuca trachyphylla 'Durar'*	3.50
Squirreltail	*Elymus elymoides*	2.00
Creeping Wildrye	*Elymus triticoides*	4.00
Slender Wheatgrass	*Elymus trachycaulus 'Revenue'*	5.00
California Sierra Brome	*Bromus carinatus*	4.00
Western Needlegrass	*Achnatherum occidentale*	1.00
Blue Flax	*Linum perenne*	1.00
California Poppy	*Eschscholzia californica*	2.00
Sulfur-flower Buckwheat	*Eriogonum umbellatum*	3.00
Yarrow	*Achillea millefolium*	0.50
Woods Rose	*Rosa woodsii*	0.50
Total PLS LBS/ACRE RATE		**32.00**



PLAN

SCALE: 1" = 20'

REVEGETATION NOTES

1. SOD IS SALVAGED AND REPLANTED CLOSEST TO CREEK. ALL DISTURBED AREAS, INCLUDING SOD TRANSPLANT, SHALL BE SEEDED WITH SEED MIX
2. WORK SHALL BE CONDUCTED AND/OR OVERSEEN BY A LICENSED LANDSCAPE CONTRACTOR (C-10) IN THE STATE OF NEVADA AND WILL BE INSPECTED BY THE ENGINEER, IN CONJUNCTION WITH THE REVEGETATION SPECIALIST (RS). THE CONTRACTOR SHALL PERFORM ALL REVEGETATION WORK AS SPECIFIED HEREIN AND IN ACCORDANCE WITH THE PROVISIONS OF THESE SPECIAL TECHNICAL PROVISIONS, THE PROJECT PLANS, AND THE STANDARD SPECIFICATIONS. THE REVEGETATION WORK SHALL CONSIST OF ALL SITE PREPARATION ASSOCIATED WITH THE REVEGETATION TREATMENTS, AND SHALL INCLUDE SOD AND ORGANIC MATTER SALVAGE, STORAGE AND REPLANTING; WILLOW SALVAGE, STORAGE AND REPLANTING; SEEDBED PREPARATION; SEEDING; MULCHING; DESIGN, INSTALLATION AND MANAGEMENT OF THE IRRIGATION SYSTEM, IF NECESSARY, INCLUDING WINTERIZATION AND DECOMMISSIONING; AND RECORD KEEPING.
3. AREAS TO RECEIVE REVEGETATION TREATMENTS SHALL INCLUDE ALL AREAS DISTURBED DURING CONSTRUCTION, INCLUDING STAGING OFF PAVEMENT STAGING AREAS AND ALL AREAS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER AND/OR THE RS.
4. THE CONTRACTOR IS FURTHER REQUIRED TO ONLY USE "LOW IMPACT EQUIPMENT" FOR THIS PROJECT. NO EQUIPMENT HAVING A GROUND PRESSURE THAT WILL DISTURB AND/OR COMPACT THE GROUND (GENERALLY GROUND PRESSURES LESS THAN 25 PSI) WILL BE ALLOWED OFF OF PAVED AREAS OR OFF DESIGNATED TEMPORARY TRUCK HAUL ROUTES UNDER ANY CIRCUMSTANCES. ALL EQUIPMENT ON THE PROJECT SITE, (OFF PAVED AREAS OR DESIGNATED TRUCK HAUL ROUTES), SHALL MEET THIS LOW-PRESSURE REQUIREMENT.
5. SUPPLEMENTAL TREATMENTS MAY BE REQUIRED IF REVEGETATION EFFORTS ARE UNSATISFACTORY FOLLOWING COMPLETION OF WORK AS DETERMINED BY THE ENGINEER. THE CONTRACTOR MUST ACHIEVE 70% OF PRE-DISTURBANCE (REFERENCE AREA) NATIVE VEGETATIVE COVER FOR AREAS RECEIVING SEED. WARRANTY 100% SURVIVAL OF ALL SALVAGED AND TRANSPLANTED SOD AND WILLOWS.
6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND RS NO LESS THAN TEN (10) WORKING DAYS IN ADVANCE OF REVEGETATION WORK AND SHALL NOT BEGIN WORK UNTIL PREPARED REVEGETATION TREATMENT AREAS HAVE BEEN ACCEPTED BY THE ENGINEER AND RS. THE CONTRACTOR SHALL REQUEST THAT TREATMENT TYPES AND BOUNDARIES ARE LOCATED BY THE ENGINEER AND/OR RS PRIOR TO PROGRESSING WITH THE WORK.
7. NO SUBSTITUTIONS OR ALTERATIONS TO THESE SPECIAL TECHNICAL PROVISIONS SHALL BE ACCEPTED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER AND THE RS. NO FURTHER DISTURBANCE OF ANY TREATMENT AREA SHALL BE ALLOWED ONCE REVEGETATION HAS BEEN INITIATED.
8. IF SITE CONDITIONS WARRANT PLANTING OF WETLAND PLUGS IN ADDITION TO SEEDING, THE CONTRACTOR WILL BE PROVIDED WITH A SPECIFICATION FOR MATERIALS AND PLANTING METHODS, INCLUDING SPECIES, SIZE, QUANTITIES, PLANT HEALTH, SPACING, PLANTING METHODS, MAINTENANCE, AND WARRANTY.
9. SOIL DISTURBANCE SHALL BE MINIMIZED AND LIMITED TO THOSE AREAS THAT REQUIRE TREATMENT. ALL EXISTING VEGETATION WITHIN THE PROJECT LIMITS NOT DESIGNATED FOR REMOVAL SHALL BE PROTECTED. DELINEATE PROJECT BOUNDARIES WITH FENCING PER THE REQUIREMENTS IN CONSTRUCTION LIMIT FENCING AND IN THESE SPECIAL TECHNICAL PROVISIONS. TRAFFIC OUTSIDE OF PROJECT AREA IS PROHIBITED. ANY EXISTING OR PREVIOUSLY INSTALLED VEGETATION DAMAGED SHALL BE REPLACED BY THE CONTRACTOR. AREAS TO RECEIVE REVEGETATION TREATMENTS SHALL INCLUDE ALL AREAS DISTURBED DURING CONSTRUCTION, AS INDICATED ON THE PROJECT PLANS AND AS DIRECTED BY THE ENGINEER AND/OR THE RS.
10. SALVAGE ALL SOD TO BE DISTURBED INCLUDING BUT NOT LIMITED TO WHAT IS SHOWN ON THE DRAWINGS. SALVAGE SOD AND ORGANIC MATTER, STORE, AND REPLANT AS DIRECTED BY THE RS. TOP DRESS BARE AREAS WITH REVEGETATION SEED MIX 1. RAKE SEED TO INCORPORATE AND IRRIGATE TO ESTABLISH REQUIRED COVER IRRIGATE TO ESTABLISH SOD AND SEEDED AREAS. WATER SOD 2 TIMES PER DAY TO KEEP MOIST UNTIL PLANTED.
11. SALVAGE, STORE, AND RE-PLANT WILLOWS AS SHOW ON THE PLANS AND AS DIRECTED BY THE RS. TOP DRESS BARE AREAS WITH SEED MIX 1. RAKE SEED TO INCORPORATE. IRRIGATE TO MEET PERFORMANCE CRITERIA.
12. DECOMPACT SOILS TO ACHIEVE A MAXIMUM OF 85% COMPACTION FOR AN 8" MINIMUM DEPTH. APPLY REVEGETATION SEED MIX, INCORPORATE. APPLY RICE STRAW AND CRIMP TO ACHIEVE 100% COVER.
13. ALL NON-NATIVE TREES WILL BE REMOVED. ALL NATIVE TREES LOCATED WITHIN DISTURBANCE AREA WILL BE REMOVED AND REPLACED 1:1 WITH POTTED QUAKING ASPEN (5 GALLON MIN).
14. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON SOD TRANSPLANT AND SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
15. PLACE 15 REVEGETATION SIGNS AS DIRECTED BY ENGINEER. SIGNS TO REMAIN IN-PLACE FOR TWO YEARS POST-CONSTRUCTION. (4 / D1.5)

811 Know what's below. Call before you dig.

85% DESIGN
NOT FOR CONSTRUCTION

Nevada Tahoe Conservation District

LANDSCAPE & REVEGETATION PLAN

LOWER ROSEWOOD CREEK AOP

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	2/23/2026
SCALE	AS SHOWN
PROJECT	LRWC - 85%
SHEET	L1.0