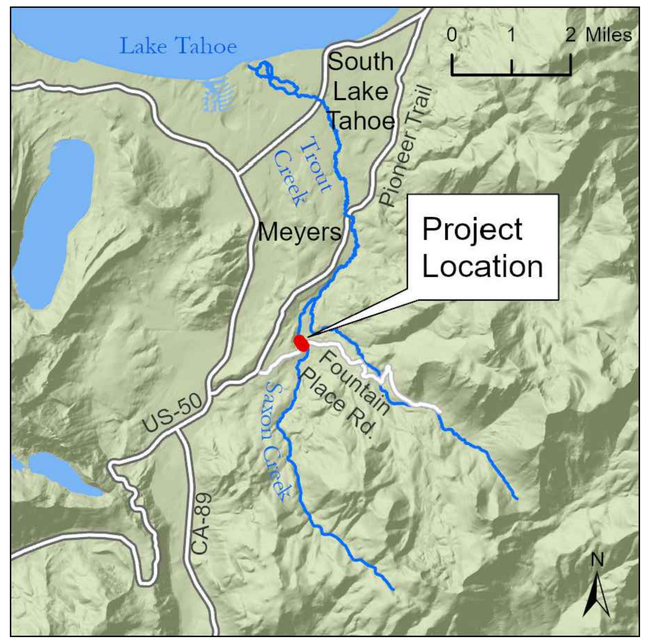
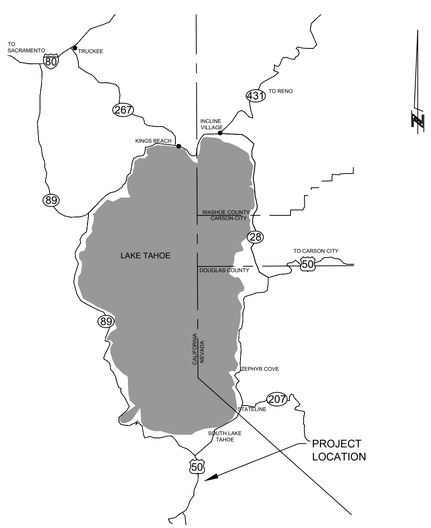
UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE
REGION FIVE
LAKE TAHOE BASIN MANAGEMENT UNIT

SAXON CREEK AQUATIC ORGANISM PASSAGE PROJECT PHASE 2



PROJECT LOCATION MAP
SCALE: NTS



VICINITY MAP

FOREST SERVICE ROAD 1201
EL DORADO COUNTY, CALIFORNIA

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Nevada Tahoe Conservation District

LICENSED PROFESSIONAL ENGINEER
MAGHAN C. KELLY
C 77162
EXP. 12/31/22
CIVIL
STATE OF CALIFORNIA
7/6/2022

TITLE SHEET
SAXON CREEK PHASE 2

DESIGNED/DRAWN
PJ
CHECKED BY
MK
DATE
07/2022
SCALE
AS SHOWN
PROJECT
SAXON CREEK PHASE 2
SHEET
i
1 OF 13

BID SET

Know what's below. Call before you dig.

GENERAL NOTES

1. ALL IMPROVEMENTS SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION, AND TO THE SATISFACTION OF NEVADA TAHOE CONSERVATION DISTRICT (NTCD) & THE UNITED STATES FOREST SERVICE (USFS) LAKE TAHOE BASIN MANAGEMENT UNIT (LTBMU). 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. MOBILIZATION AREAS ARE TO BE SECURED BY THE CONTRACTOR AND APPROVED BY TRPA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF MOBILIZATION SITES, INCLUDING PLACEMENT AND MAINTENANCE OF BMPS.
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 TRPA REQUIREMENTS.
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 IF REQUIRED BY TRPA. CONTRACTOR TO REVEGETATE ANY AREAS OUTSIDE THE DISTURBED AREA SHOWN ON THE PLANS WITH PLANTS APPROVED BY TRPA 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 AT THE END OF EACH DAY.
12. ALL TREES AND NATURAL VEGETATION TO REMAIN ON THE SITE SHALL BE PROTECTED PER TRPA.
13. 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.
14. DURING CONSTRUCTION ENVIRONMENTAL PROTECTION DEVICES, SUCH AS EROSION CONTROL, DUST CONTROL, AND VEGETATION PROTECTION DEVICES SHALL BE MAINTAINED AT ALL TIMES.
15. 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 TRPA.
16. 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.
17. 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.
18. NO WASHING OF VEHICLES OR HEAVY EQUIPMENT, INCLUDING CEMENT MIXERS, SHALL BE PERMITTED ANYWHERE ON THE SUBJECT PROPERTY UNLESS AUTHORIZED BY TRPA IN WRITING.
19. ALL CONSTRUCTION SHALL BE WINTERIZED BY OCTOBER 15 TO REDUCE THE WATER QUALITY IMPACTS ASSOCIATED WITH WINTER WEATHER.
20. 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 SITE DEVELOPMENT OR CONSTRUCTION PROJECT.
21. 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 SPECIFIED LAHONTAN REGIONAL WATER QUALITY CONTROL BOARD:
22. 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.
23. 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.
24. 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
EP	EDGE OF PAVEMENT
ELEV.	ELEVATION
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
LRWCB	LAHONTAN REGIONAL WATER CONTROL BOARD
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
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
RT,R	RIGHT
RWQCB	REGIONAL WATER QUALITY CONTROL BOARD
RW, 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	LIBERTY UTILITIES, (800) 782-2506
STORM DRAIN	EL DORADO COUNTY (530) 573-7900
SEWER AND WATER	STPUD, (530) 544-6474
PHONE	ATT, (800) 288-2020
USA DIGS	(800) 642-2444 OR 811

HORIZONTAL AND VERTICAL PROJECTION

VERTICAL CONTROL IS ASSUMED; HORIZONTAL CONTROL IS CALIFORNIA STATE PLANE, NAD 83, ZONE II (U.S. FEET)

LEGEND

NOTE: LEGENDS PROVIDED ON INDIVIDUAL PLAN SHEETS OVERRIDES THIS LEGEND

EXISTING		PROPOSED	
	MAJOR CONTOUR		MAJOR CONTOUR
	MINOR CONTOUR		MINOR CONTOUR
6695	EXISTING MAJOR CONTOUR LABEL	6694	MAJOR CONTOUR LABEL
5+00	EXISTING ALIGNMENT	5+00	CENTERLINE ALIGNMENT
	EXISTING GRADE (SECTION VIEW)		GRADING DAYLIGHT LINE
	PROPERTY LINE		FLOODPLAIN BOUNDARY
	EXISTING GUARDRAIL		MAINTAIN EX. STREAM CHANNEL
	EDGE OF PAVEMENT		REMOVE TREE
	CULVERT		PLACE BOULDER
	CATCH BASIN	DW	DEWATERING DITCH
>	DRAINAGE PATH		CONSTRUCTION ACCESS ROUTE
18P	TREE - (DIAMETER) PINE		CONSTRUCTION STAGING AREA
18SN	(DIAMETER) SNAG		ROCK ENERGY DISSIPATOR
	FIRE HYDRANT		
	CONCRETE BRIDGE ABUTMENT		
	CONTROL POINT		
	SIGN		
	ROCK LINED CHANNEL		
	EXISTING ROCK WALL		

3 / D-5 — 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

Nevada Tahoe Conservation District

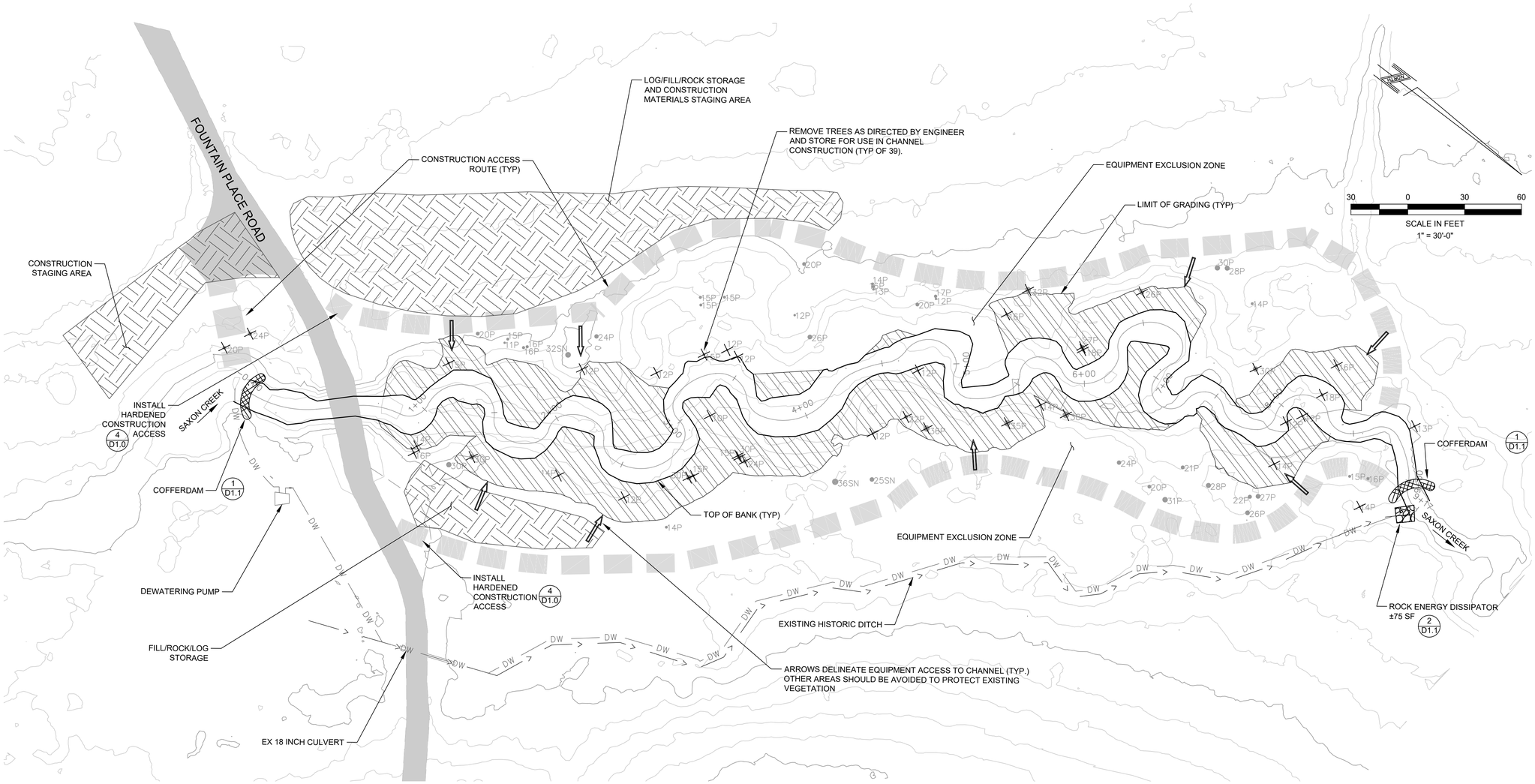
LICENSED PROFESSIONAL ENGINEER — MEGHAN C. KELLY — C 77162 — EXP. 12/31/22 — CIVIL — STATE OF CALIFORNIA — 7/6/2022

NOTES, LEGEND, ABREVIATIONS
SAXON CREEK PHASE 2

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	07/2022
SCALE	AS SHOWN
PROJECT	SAXON CREEK PHASE 2
SHEET	ii

BID SET

Know what's below. Call before you dig.



PLAN

SCALE: 1":30'

NOTES:

1. NO TREE REMOVAL IS ALLOWED UNTIL BIRD SURVEYS ARE COMPLETED. ALERT ENGINEER AT LEAST 7 DAYS PRIOR TO PLANNED TREE REMOVAL SO SURVEYS MAY PROCEED.
2. VEHICLE THROUGH TRAFFIC ON FOUNTAIN PLACE ROAD SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT.
3. CONTRACTOR SHALL DELINEATE STAGING AREAS, EQUIPMENT EXCLUSION ZONES, AND AREAS OUTSIDE OF GRADING LIMITS WITH CONSTRUCTION LIMIT FENCING.
4. SEDIMENT LOGS AND SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH TRPA AND THE SWPPP TO PROTECT AREAS DOWN GRADIENT OF MATERIALS STORAGE AND ACTIVE GRADING AREAS. STABILIZE SOIL AFTER DISTURBANCE TO MINIMIZE SEDIMENT DISCHARGE.
5. SEE DEWATERING PLAN FOR ADDITIONAL INFORMATION ON PIPES, PUMPS AND DITCH SIZES.
6. 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.
7. COFFER DAM MAY BE PLACED INTERMITTENTLY ON RESTORED REACH FOR REWATERING OPERATIONS, SEE DEWATERING PLAN FOR MORE INFORMATION.

Know what's below. Call before you dig.

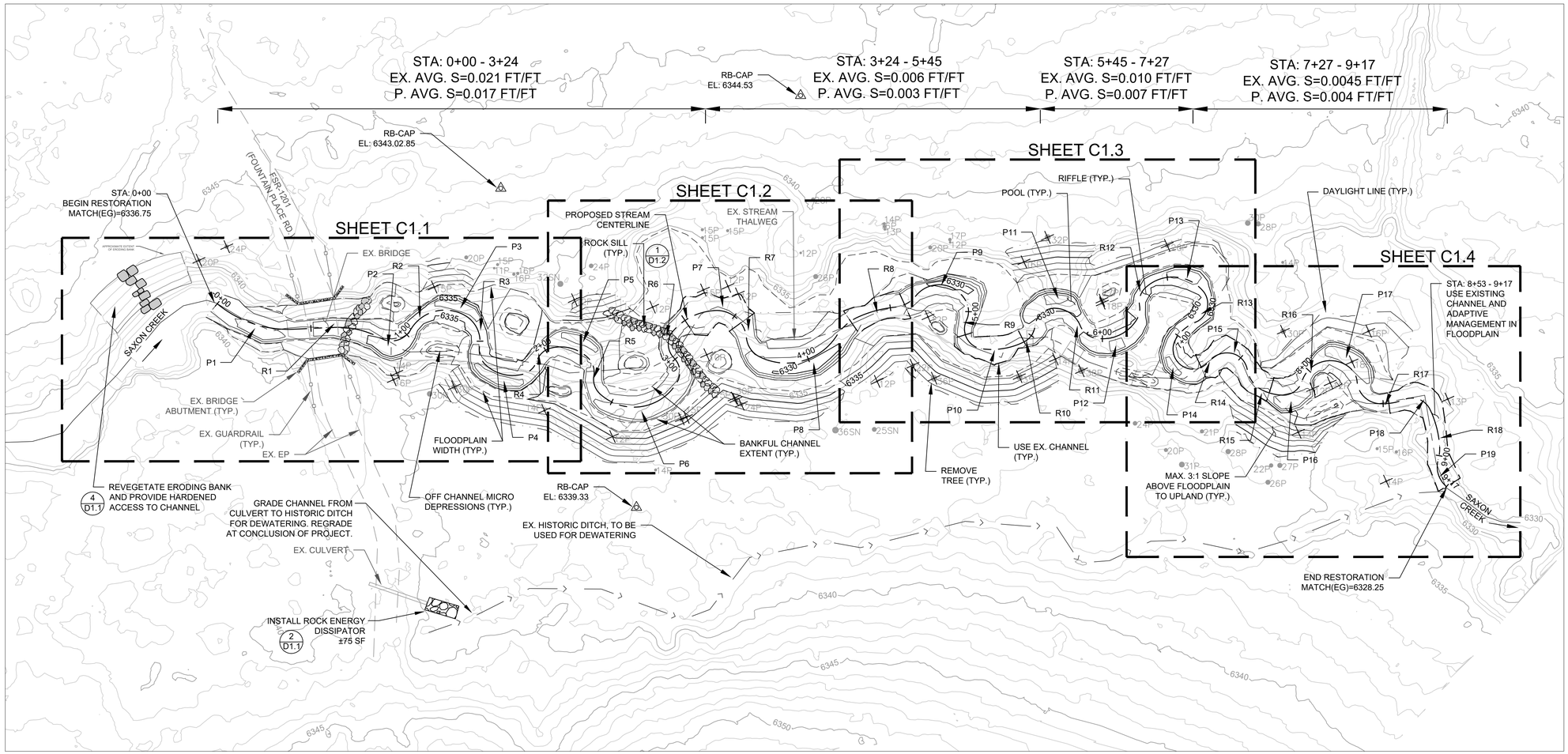
BID SET

Nevada Tahoe Conservation District

LICENSED PROFESSIONAL ENGINEER
MAGHAN C. KEEFE
C 77162
EXP. 12/31/22
7/6/2022
CIVIL
STATE OF CALIFORNIA

CONSTRUCTION STAGING & DEWATERING PLAN
SAXON CREEK PHASE 2

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	07/2022
SCALE	AS SHOWN
PROJECT	SAXON CREEK PHASE 2
SHEET	iii



30 0 30 60
SCALE IN FEET
1" = 30'-0"

PLAN

SCALE: 1":30'

POOL & RIFFLE SUMMARY

NOTE: FINAL STAKING PLAN SET WILL BE PROVIDED PRIOR TO START OF CONSTRUCTION

POOL	START STA.	LENGTH	START EL.	BOT. EL.	TYPE
P1	0+00.0	37.7	6336.5	6335.5	1
P2	0+79.2	22.0	6335.3	6334.0	1
P3	1+18.4	21.1	6334.6	6333.8	1
P4	1+54.6	30.4	6334.0	6332.7	1
P5	2+02.7	23.6	6333.2	6331.7	1
P6	2+42.8	51.7	6332.6	6331.0	1
P7*	3+20.0	31.9	6331.4	MATCH EG	2
P8	3+72.3	56.5	6331.1	6330.0	2
P9	4+57.4	39.3	6330.8	6329.7	2
P10*	5+11.9	26.5	6330.6	MATCH EG	2
P11	5+54.2	25.0	6330.3	6328.9	2
P12	5+92.0	29.0	6330.0	6328.9	2
P13	6+39.8	36.2	6329.6	6328.7	2
P14	6+99.9	24.4	6329.1	6327.8	2
P15*	7+38.5	23.8	6328.8	MATCH EG	2
P16	7+76.5	17.0	6328.7	6327.3	2
P17	8+07.4	29.6	6328.7	6327.5	2
P18*	8+63.0	13.0	MATCH EG	MATCH EG	2
P19*	9+00.0	17.0	MATCH EG	MATCH EG	2

RIFFLE	START STA.	LENGTH	CREST EL.
R1	0+37.7	41.4	6336.3
R2	1+01.1	17.2	6335.1
R3	1+39.5	15.1	6334.4
R4	1+84.9	17.8	6333.7
R5	2+26.3	16.4	6333.0
R6	2+94.5	25.5	6332.0
R7	3+51.9	20.4	6331.1
R8*	4+28.8	28.5	6331.3
R9	4+96.7	15.3	6330.8
R10	5+38.4	15.8	6330.5
R11	5+79.3	12.7	6330.2
R12	6+20.9	18.9	6329.9
R13	6+76.0	23.8	6329.5
R14*	7+24.3	14.2	6329.0
R15*	7+62.3	14.1	6328.8
R16	7+93.5	13.9	6328.8
R17*	8+37.0	25.9	6328.7
R18*	8+76.0	24.0	6328.3

* = USE EXISTING POOL, LENGTH / ELEVATION APPROXIMATE. NO GRADING / LOG PLACEMENT IN THESE AREAS THAT DISTURBS THE STREAMBED OR BANK WILL OCCUR.

LOG CUTTING SUMMARY

WITH ROOTWAD	
LENGTH	COUNT
6'	5
10'	38
12'	2

NOTE:
45 TREES MUST BE LEFT, 6"-12" HIGH TO BE KNOCKED DOWN BY EXCAVATOR TO KEEP ROOTWAD INTACT

NO ROOTWADS	
LENGTH	COUNT
6'	24
8'	17
10'	77
12'	35
14'	8
18'	6

PROJECT SUMMARY
VALLEY LENGTH = ±620 LF

EX. CL LENGTH= 730 LF
EX. SINUOSITY = 1.17
EX. AVG. CL GRADE = 1.2%

PROPOSED CL LENGTH: 917 LF
PROPOSED SINUOSITY = 1.48
PROPOSED AVG. CL GRADE = 0.9%

GRADING SUMMARY - STREAM AREA
GRADING QUANTITIES (TO FG):
CUT = 1470 CY
FILL = 575 CY
NET = 895 CY CUT

GRADING DISTURBANCE = 30,000 SF

GRADING SUMMARY - OVER EXCAVATION
STREAM SUBSTRATE = 60 CY
LOG PLACEMENT = 60 CY
BOULDER SILL AT BRIDGE = 10 CY
DOWNSTREAM BOULDER SILL = 15 CY
TOTAL OVER EXCAVATION = 145 CY

TREE REMOVAL SUMMARY
±39 LODGEPOLE PINE TREES >=12" DBH
±75 LODGEPOLE PINE TREES 6" - 12" DBH

TOTAL NET OFFHAUL = 1,040 CY

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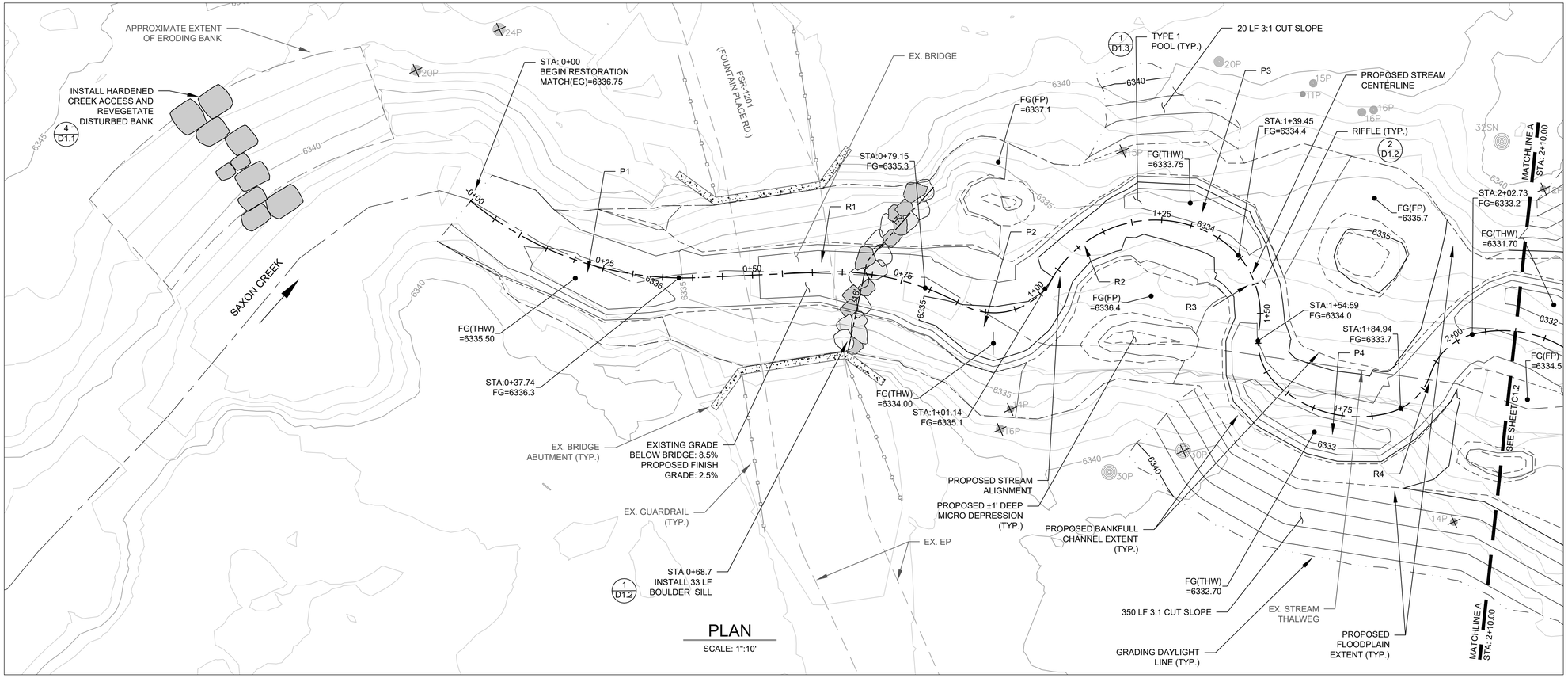
BID SET

Nevada Tahoe Conservation District

LICENSED PROFESSIONAL ENGINEER
MEGAN C. KEEN
C 77162
EXP. 12/31/22
CIVIL
STATE OF CALIFORNIA
7/6/2022

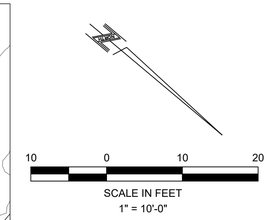
GRADING PLAN OVERVIEW
SAXON CREEK PHASE 2

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	07/2022
SCALE	AS SHOWN
PROJECT	SAXON CREEK PHASE 2
SHEET	C1.0

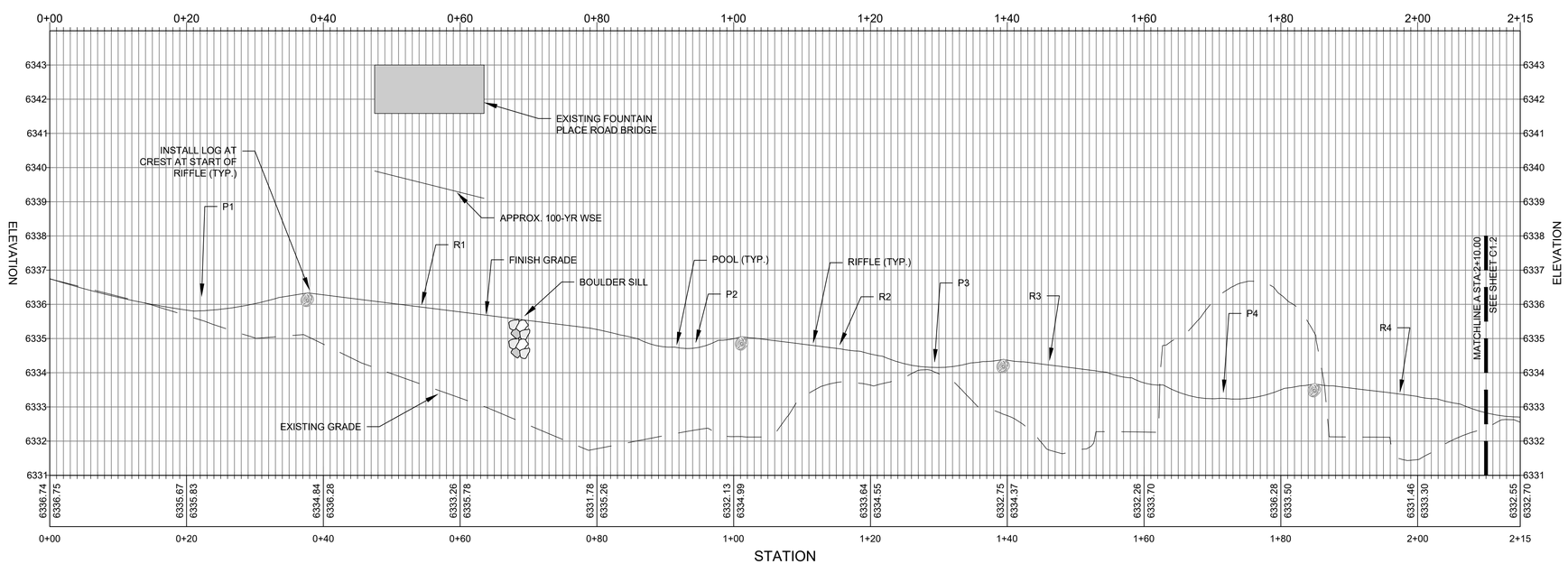


PLAN

SCALE: 1":10'



NOTE: UP TO 3 TOTAL FULL SPAN DEBRIS JAMS AND 4 PARTIAL DEBRIS JAMS WILL BE INSTALLED PER ENGINEER'S DIRECTION. (BID ALTERNATE)



PROPOSED CENTERLINE PROFILE

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

Nevada Tahoe Conservation District

LICENSED PROFESSIONAL ENGINEER MEGHAN C. KELLY C 77162 EXP. 12/31/22 CIVIL STATE OF CALIFORNIA 7/6/2022

GRADING PLAN
SAXON CREEK PHASE 2

DESIGNED/DRAWN	PJ
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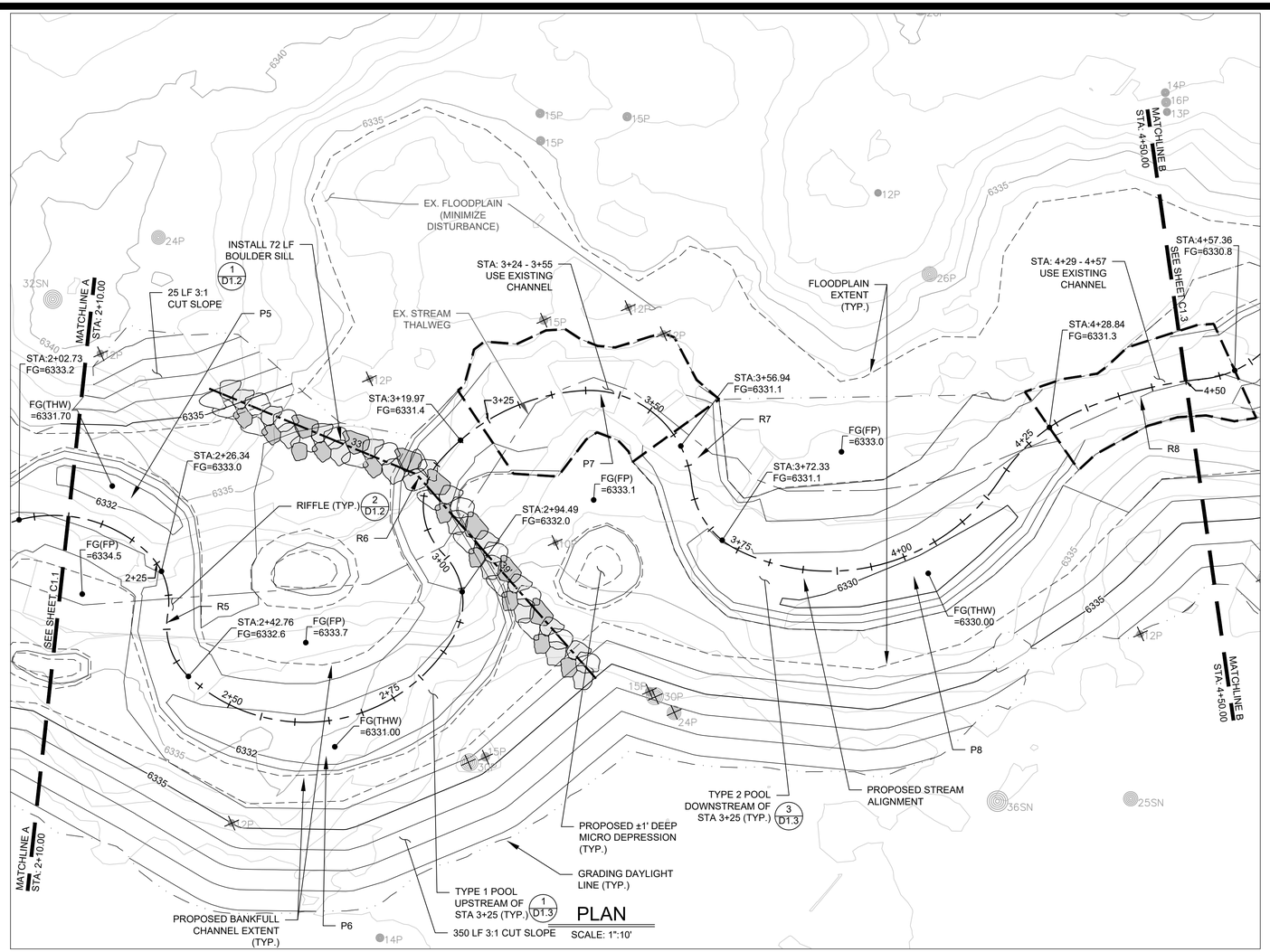
SHEET	C1.1

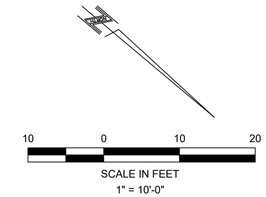
BID SET

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



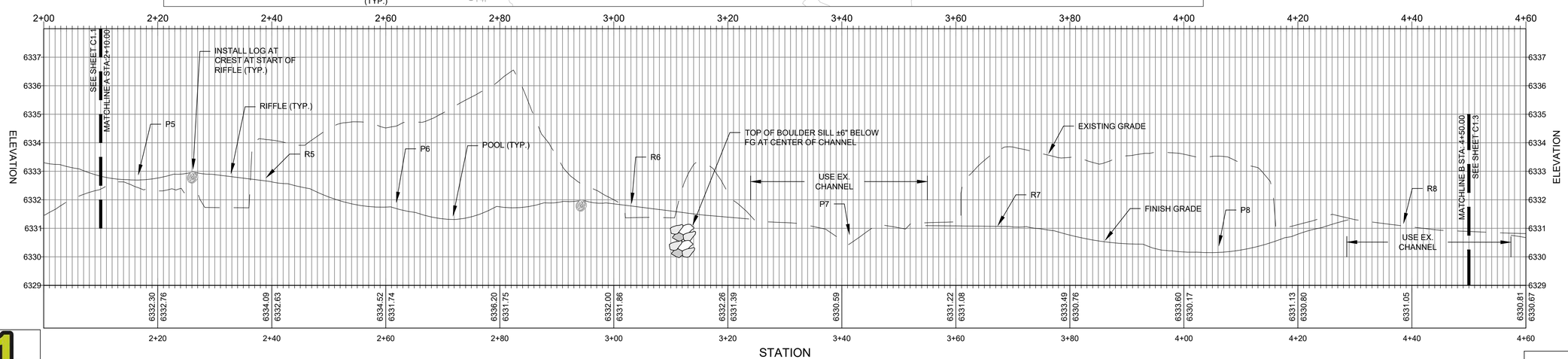
PLAN

SCALE: 1":10'



NOTES:

1. UP TO 3 TOTAL FULL SPAN AND 2 PARTIAL DEBRIS JAMS WILL BE INSTALLED PER ENGINEER'S DIRECTION. (BID ALTERNATE)
2. NO GRADING WILL BE PERFORMED IN "USE EXISTING CHANNEL" SECTIONS. DEBRIS STRUCTURES OR LOGS MAY BE PLACED AS DIRECTED BY ENGINEER.



PROPOSED CENTERLINE PROFILE

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

Know what's below. Call before you dig.

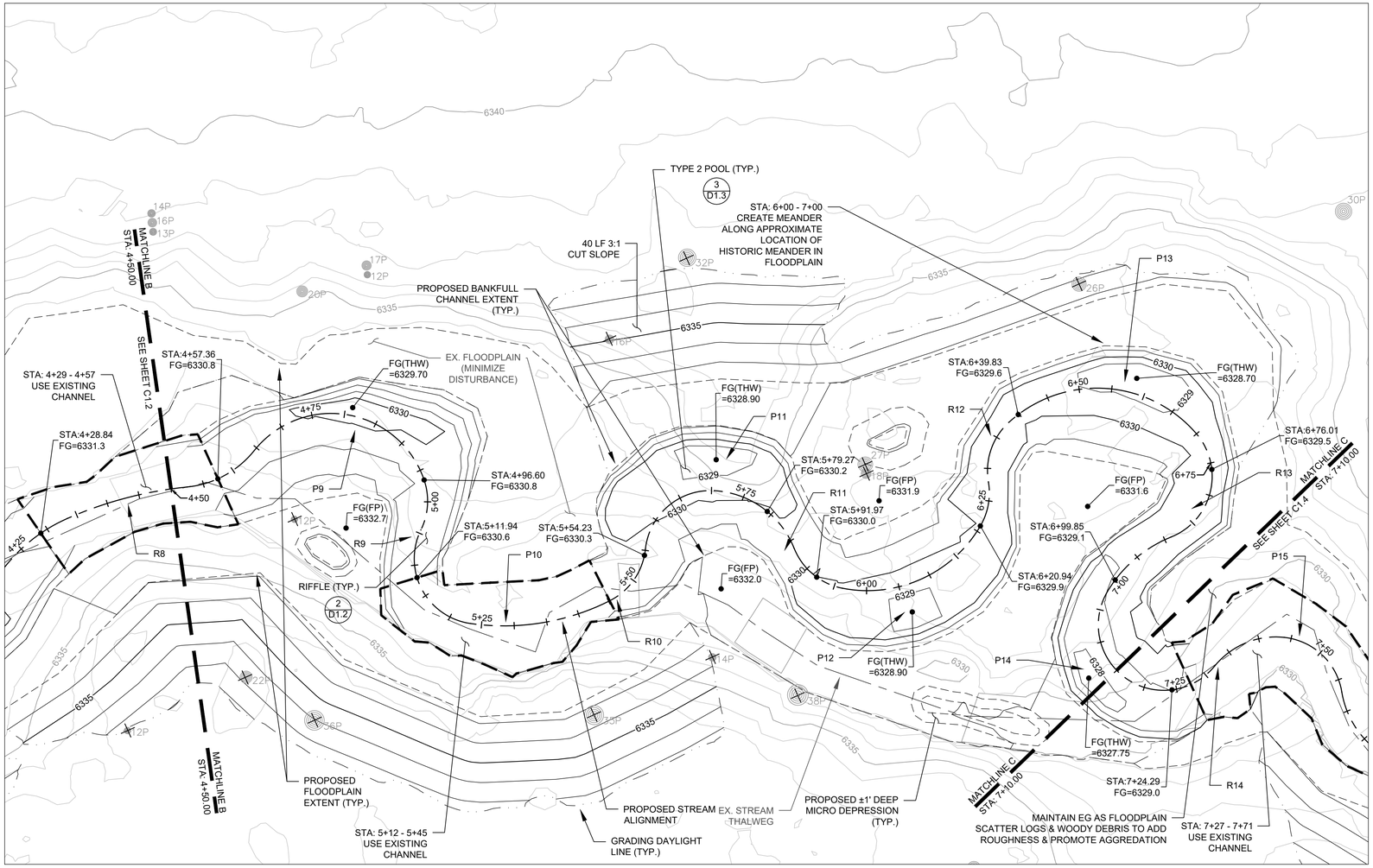
BID SET

Nevada Tahoe Conservation District

LICENSED PROFESSIONAL ENGINEER MEGAN C. KELLY C 77162 EXP. 12/31/22 CIVIL STATE OF CALIFORNIA 7/6/2022

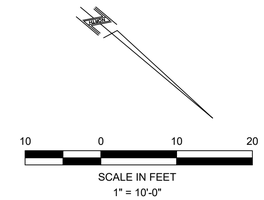
GRADING PLAN
SAXON CREEK PHASE 2

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	07/2022
SCALE	AS SHOWN
PROJECT	SAXON CREEK PHASE 2
SHEET	C1.2



PLAN

SCALE: 1":10'



NOTES:

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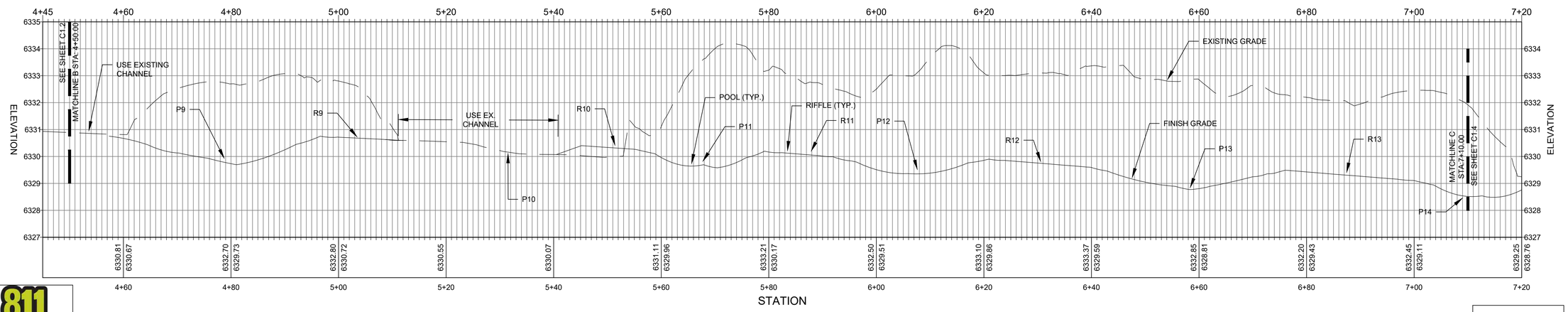


PROPOSED CENTERLINE PROFILE

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

Know what's below. Call before you dig.

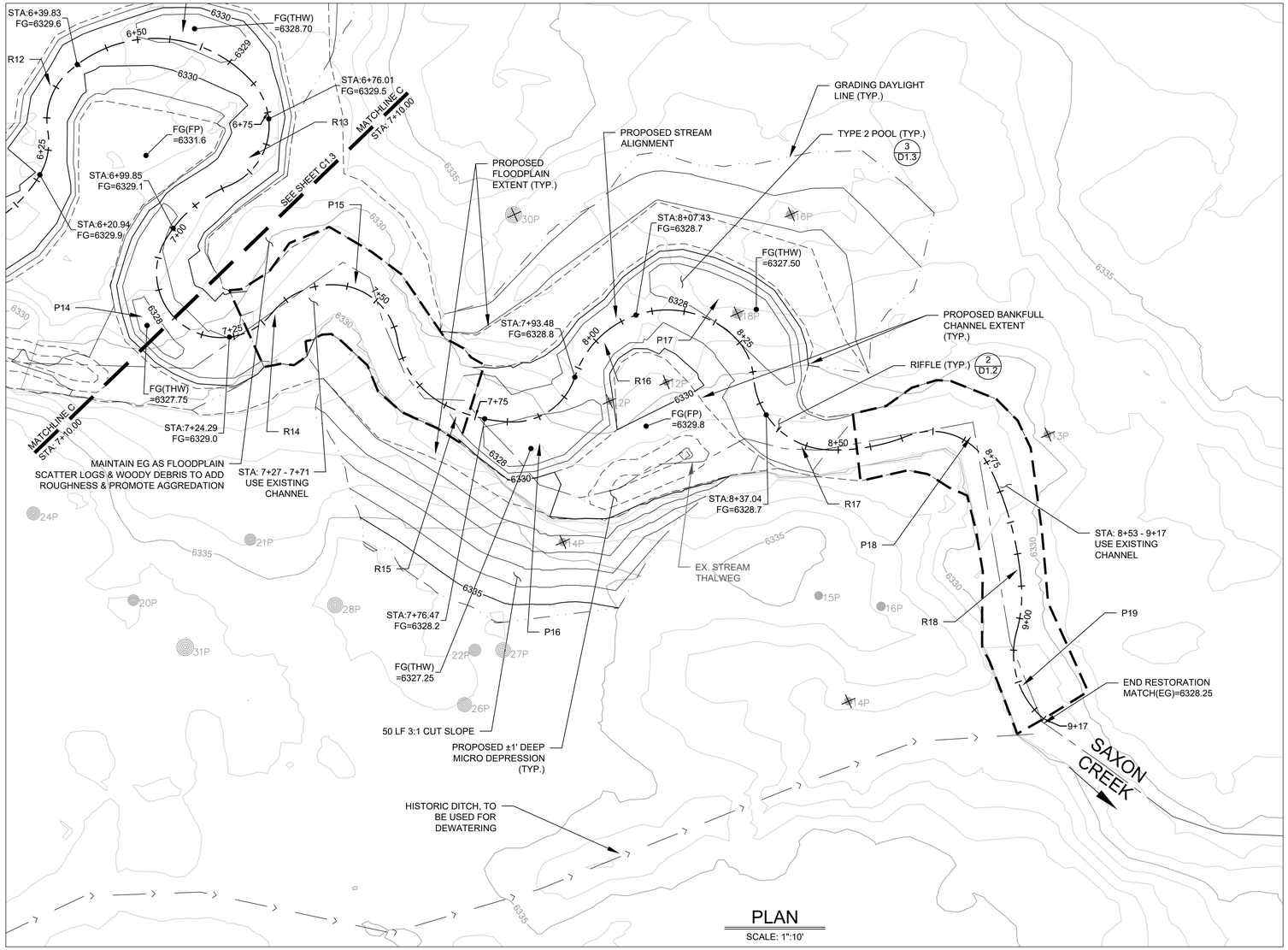
BID SET

Nevada Tahoe Conservation District

LICENSED PROFESSIONAL ENGINEER
MAGHAN C. KEEFE
C 77162
EXP. 12/31/22
CIVIL
STATE OF CALIFORNIA
7/6/2022

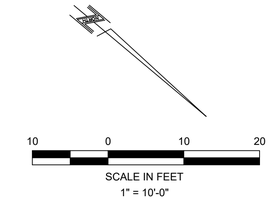
GRADING PLAN
SAXON CREEK PHASE 2

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	07/2022
SCALE	AS SHOWN
PROJECT	SAXON CREEK PHASE 2
SHEET	C1.3



PLAN

SCALE: 1":10'



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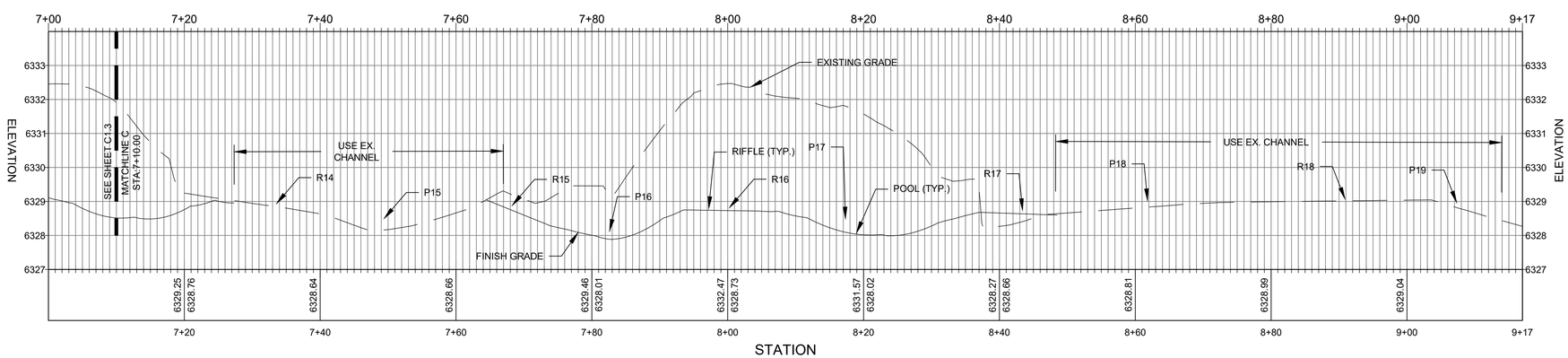

PROPOSED CENTERLINE PROFILE

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

Nevada Tahoe Conservation District

LICENSED PROFESSIONAL ENGINEER
MAGHAN C. KELLY
C 77162
EXP. 12/31/22
CIVIL
STATE OF CALIFORNIA
7/6/2022

GRADING PLAN
SAXON CREEK PHASE 2

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	07/2022
SCALE	AS SHOWN
PROJECT	SAXON CREEK PHASE 2
SHEET	C1.4

BID SET

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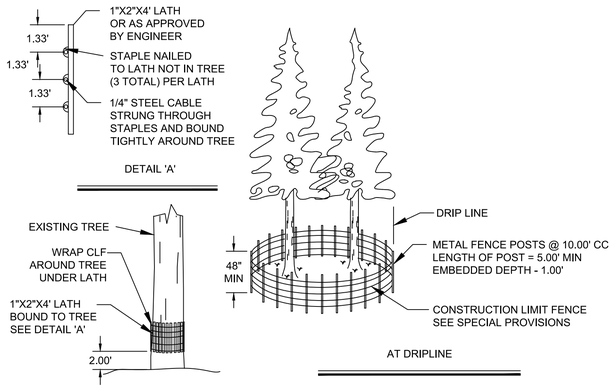
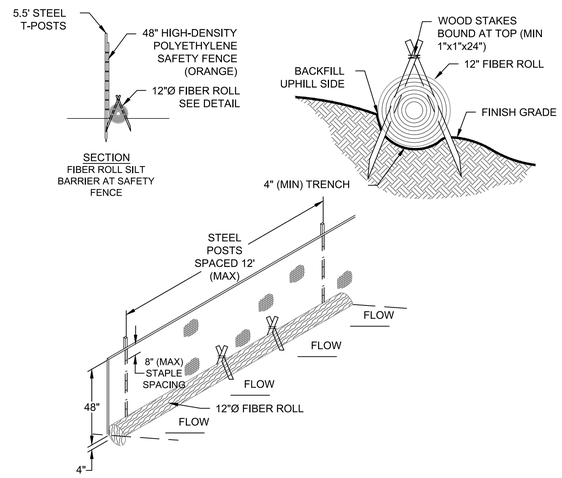


NOTE:
1. CLF AND TREE PROTECTION FENCE SHALL BE A MINIMUM OF 48" HIGH. FOR TREES WITH DRIPLINES THAT OVERHANG THE CONSTRUCTION AREAS, THE LOCATION OF THE TREE PROTECTION FENCE SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER AND/OR THE TRPA AT THE PREGRADE MEETING.
2. THE DETAIL SHOWN IS FOR TREE PROTECTION. 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



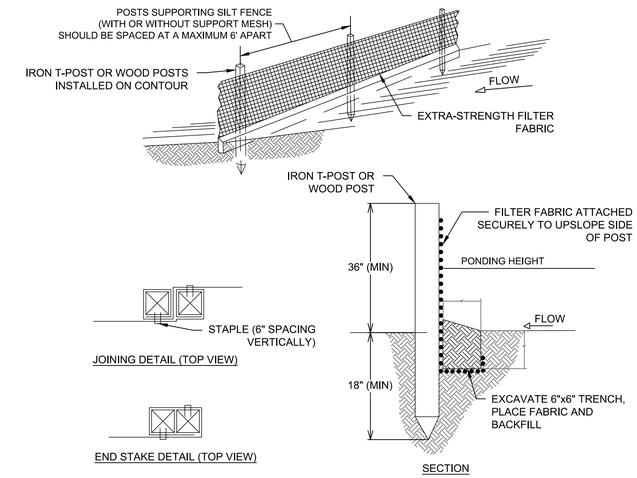
FIBER ROLL NOTES:

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



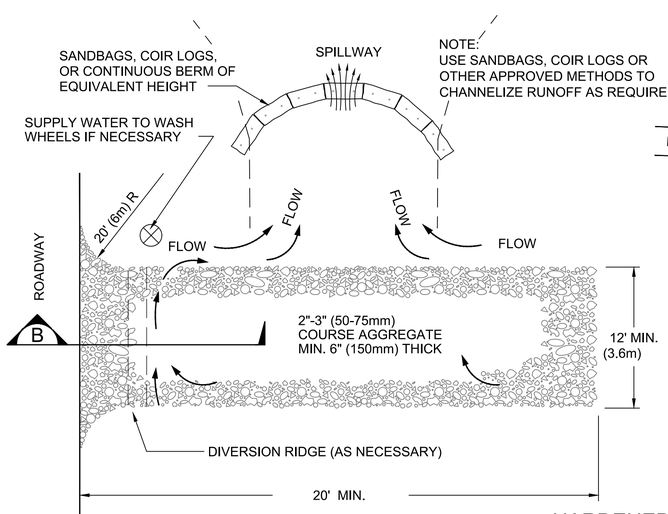
SILT FENCE NOTES:

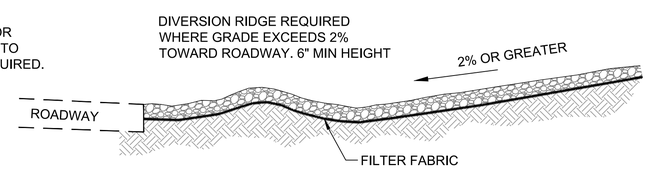
1. USED IN AREAS WHERE SHEET FLOW OCCURS.
2. DO NOT USE IN STREAMS, CHANNELS, OR ANYWHERE FLOW IS CONCENTRATED. DO NOT USE SILT FENCES TO DIVERT FLOW.
3. DO NOT USE BELOW SLOPES SUBJECT TO CREEP, SLUMPING, OR LANDSLIDES.
4. SILT FENCE SHOULD BE WOVEN POLYPROPYLENE WITH A MINIMUM WIDTH OF 36 INCHES AND 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





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.

4 / D1.0

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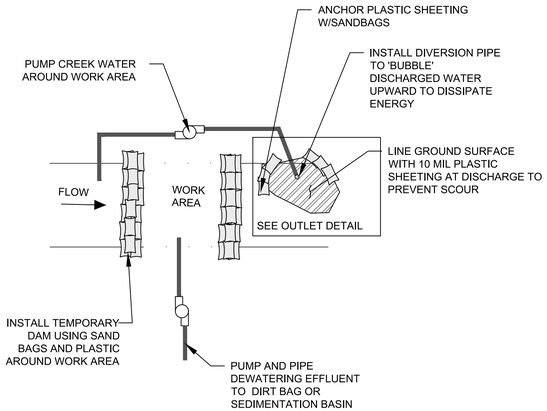
BID SET

Nevada Tahoe Conservation District

LICENSED PROFESSIONAL ENGINEER
MEGHAN C. KELLY
C 77162
EXP. 12/31/22
CIVIL
STATE OF CALIFORNIA
7/6/2022

DETAILS
SAXON CREEK PHASE 2

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	07/2022
SCALE	AS SHOWN
PROJECT	SAXON CREEK PHASE 2
SHEET	D1.0



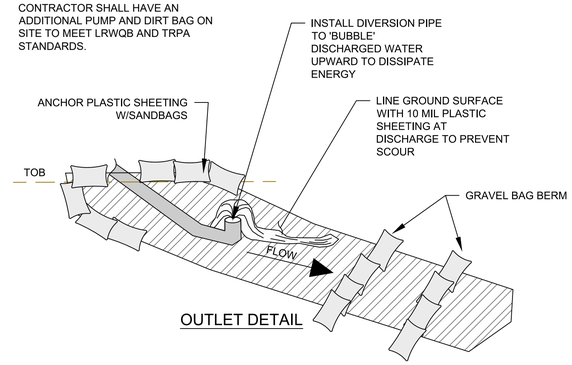
DIVERSION AND DEWATERING PLAN

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

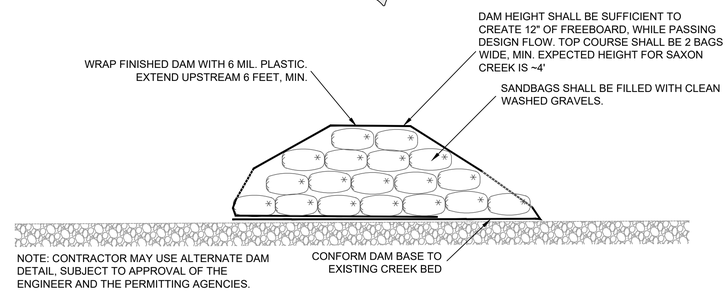
DEWATERING DIVERSION (1 / D1.1)

SCALE: N.T.S.

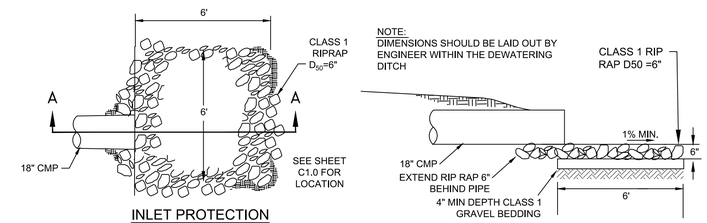
CONTRACTOR SHALL HAVE AN ADDITIONAL PUMP AND DIRT BAG ON SITE TO MEET LRWQB AND TRPA STANDARDS.



OUTLET DETAIL



COFFER DAM DETAIL

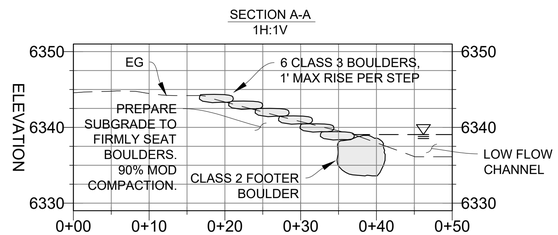


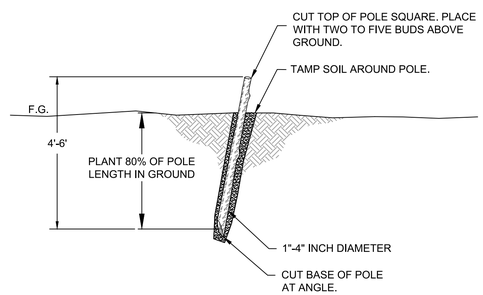
INLET PROTECTION PLAN VIEW

SECTION A-A

ROCK ENERGY DISSIPATOR (2 / D1.1)

SCALE: N.T.S.





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

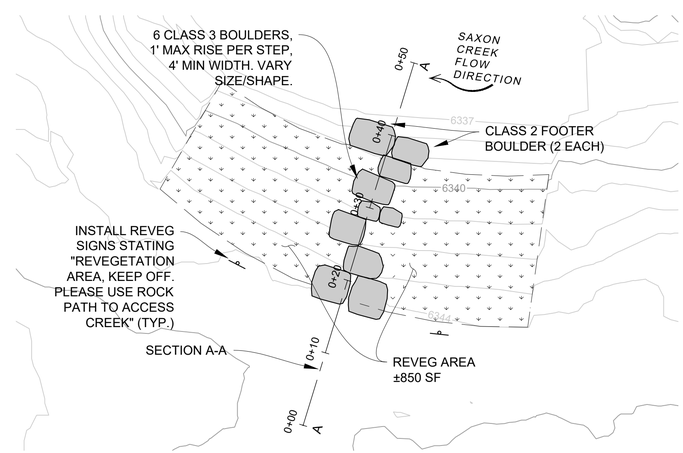
WILLOW PREPARATION
1. POLE CUTTINGS SHALL BE TAKEN WITH SHARP PRUNING SHEARS OR WITH A SHARP SAW BLADE, WITHOUT CAUSING INJURY TO THE BARK OR SPLITTING OF THE ENDS. THE BUTT END OF THE CUTTING SHALL BE ANGLED AND THE TOP END SHALL BE SQUARE.
2. POLES SHALL BE FROM 4 TO 6 FOOT IN LENGTH AND 1 TO 4 INCHES 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 FOR 24 HOURS, MIN. 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 DETAIL

LIVE POLE STAKE (3 / D1.1)

SCALE: N.T.S.



HARDENED STREAM ACCESS (4 / D1.1)

SCALE: N.T.S.

Nevada Tahoe Conservation District

LICENSED PROFESSIONAL ENGINEER
JAGRAN C. KELLY
C 77162
EXP. 12/31/22
CIVIL
STATE OF CALIFORNIA
7/6/2022

DETAILS
SAXON CREEK PHASE 2

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	07/2022
SCALE	AS SHOWN
PROJECT	SAXON CREEK PHASE 2
SHEET	D1.1

BID SET

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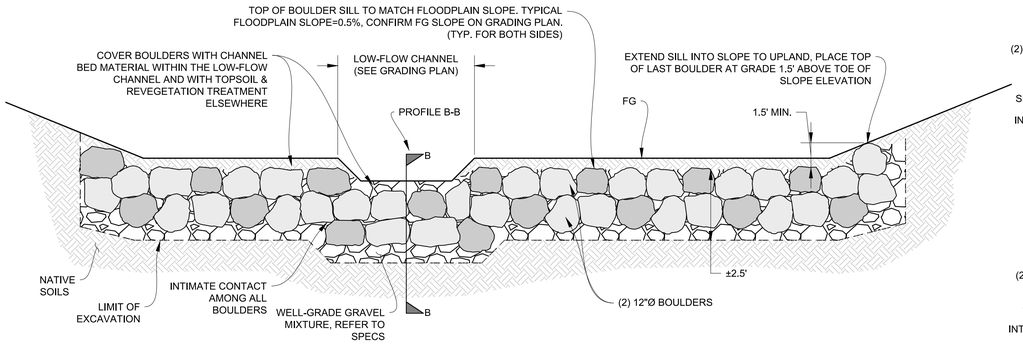
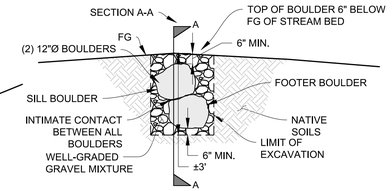


NOTE: IF BEDROCK ENCOUNTERED DURING EXCAVATION, NOTIFY ENGINEER IMMEDIATELY. BOULDER SILL WILL BE CONSTRUCTED AROUND BEDROCK WITH BEDROCK TAKING PLACE OF SOME BOULDERS.

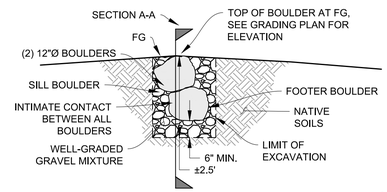
BOULDER SILL

SCALE: N.T.S.

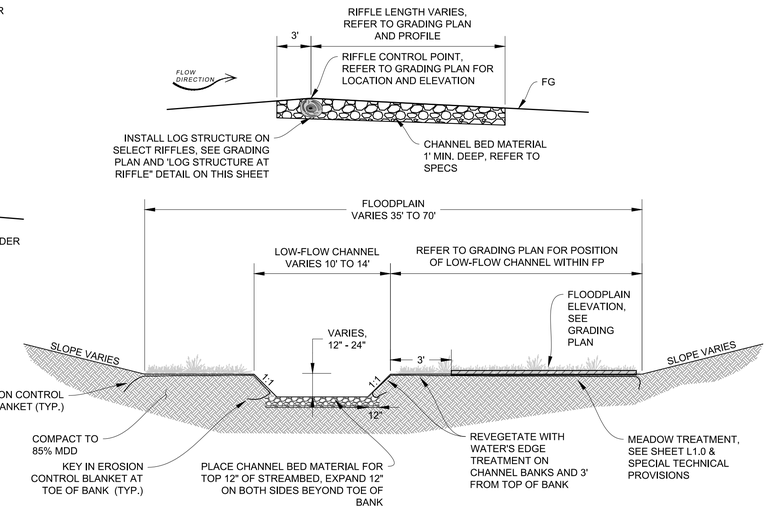
1 / D1.2



PROFILE B-B, DOWNSTREAM SILL



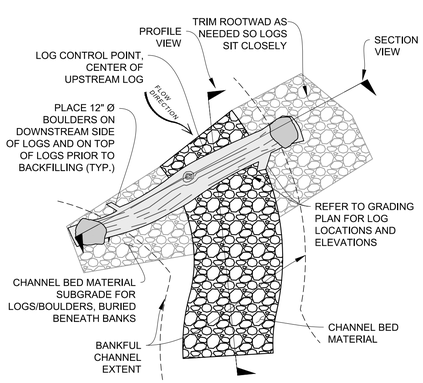
PROFILE B-B, BRIDGE SILL



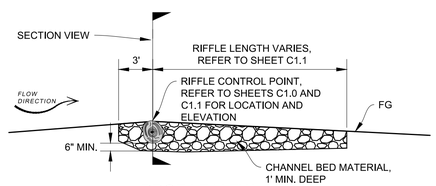
TYPICAL RIFFLE

SCALE: N.T.S.

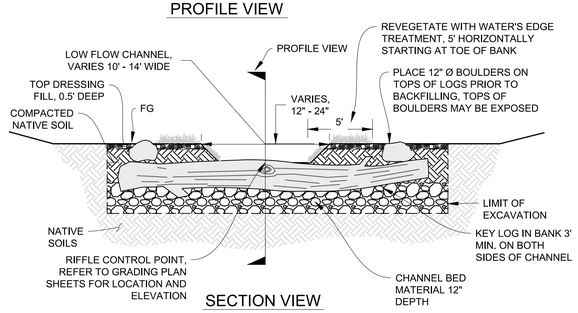
2 / D1.2



PLAN VIEW



PROFILE VIEW



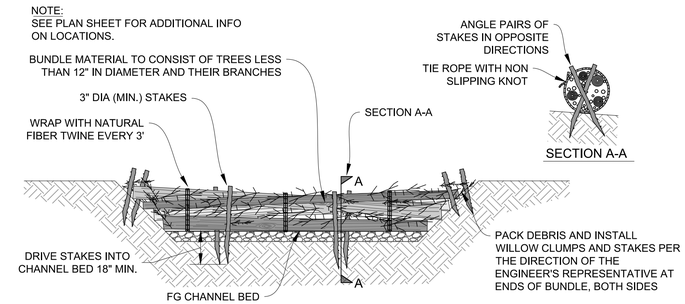
SECTION VIEW

LOG STRUCTURE AT RIFFLE

SCALE: N.T.S.

3 / D1.2

NOTE:
SEE PLAN SHEET FOR ADDITIONAL INFO ON LOCATIONS.



BID ALT: FULL SPAN DEBRIS JAM

SCALE: N.T.S.

4 / D1.2

Know what's below. Call before you dig.

BID SET

Nevada Tahoe Conservation District

LICENSED PROFESSIONAL ENGINEER
JAGRAN C. KELLY
C 77162
EXP. 12/31/22
CIVIL
STATE OF CALIFORNIA
7/6/2022

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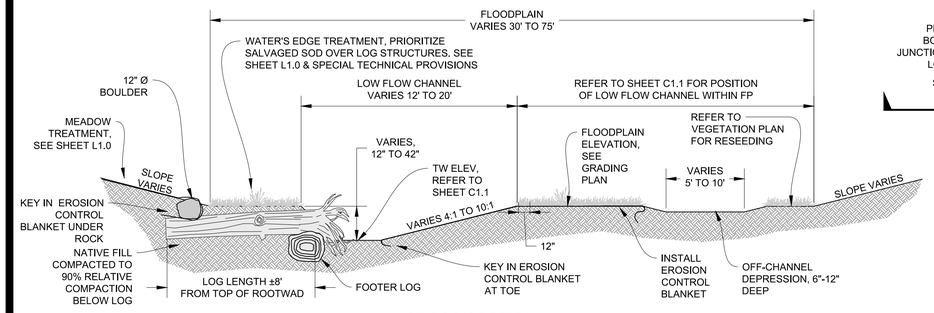
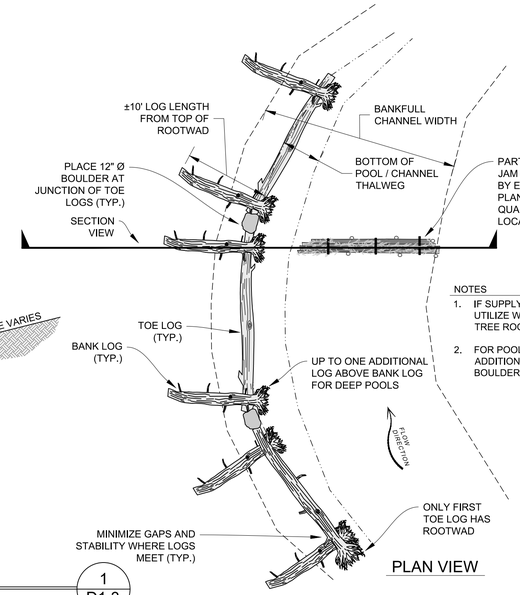


CROSS SECTION



PLAN VIEW

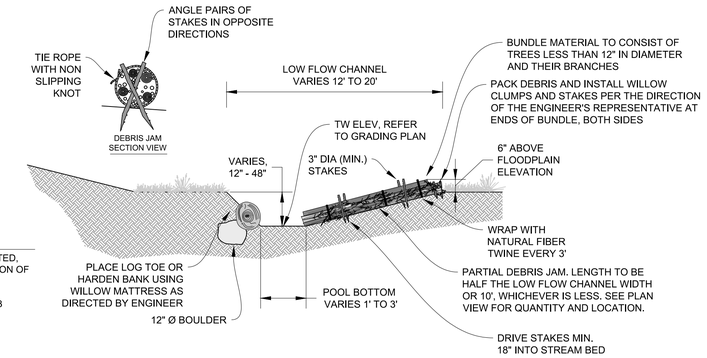
NOTES

1. IF SUPPLY OF ROOTWAD LOGS IS LIMITED, UTILIZE WILLOW ROOTWAD AT LOCATION OF TREE ROOT.
2. FOR POOLS LONGER THAN 40', UP TO 3 ADDITIONAL LOGS AND 1 ADDITIONAL BOULDER MAY BE USED.

TYPE 1 POOL

SCALE: N.T.S.

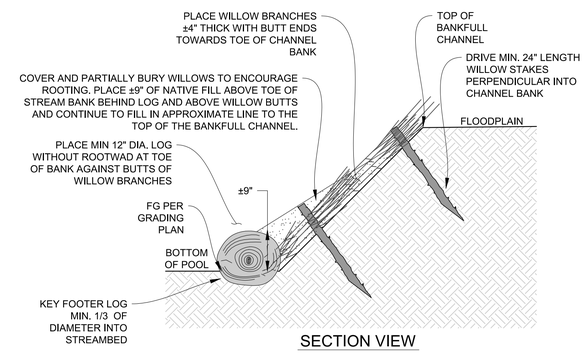
1 / D1.3



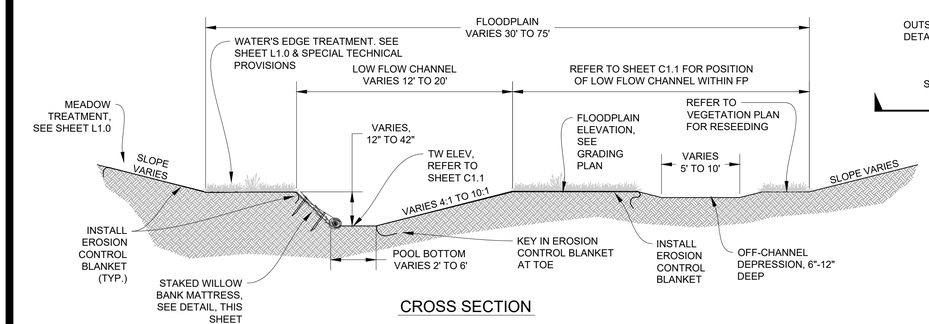
BID ALT: PARTIAL DEBRIS JAM

SCALE: N.T.S.

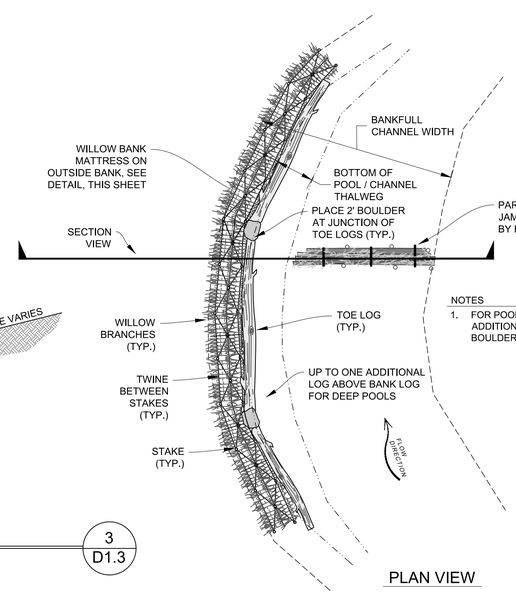
2 / D1.3



SECTION VIEW



CROSS SECTION



PLAN VIEW

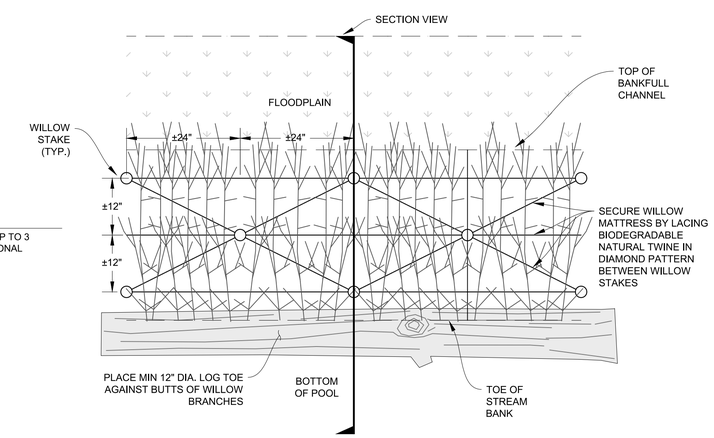
NOTES

1. FOR POOLS LONGER THAN 40', UP TO 3 ADDITIONAL LOGS AND 1 ADDITIONAL BOULDER MAY BE USED.

TYPE 2 POOL

SCALE: N.T.S.

3 / D1.3



PLAN VIEW

WILLOW BANK MATTRESS

SCALE: N.T.S.

4 / D1.3

Nevada Tahoe Conservation District

LICENSED PROFESSIONAL ENGINEER
MEGAN C. KELLY
C 77162
EXP. 12/31/22
CIVIL
STATE OF CALIFORNIA
7/6/2022

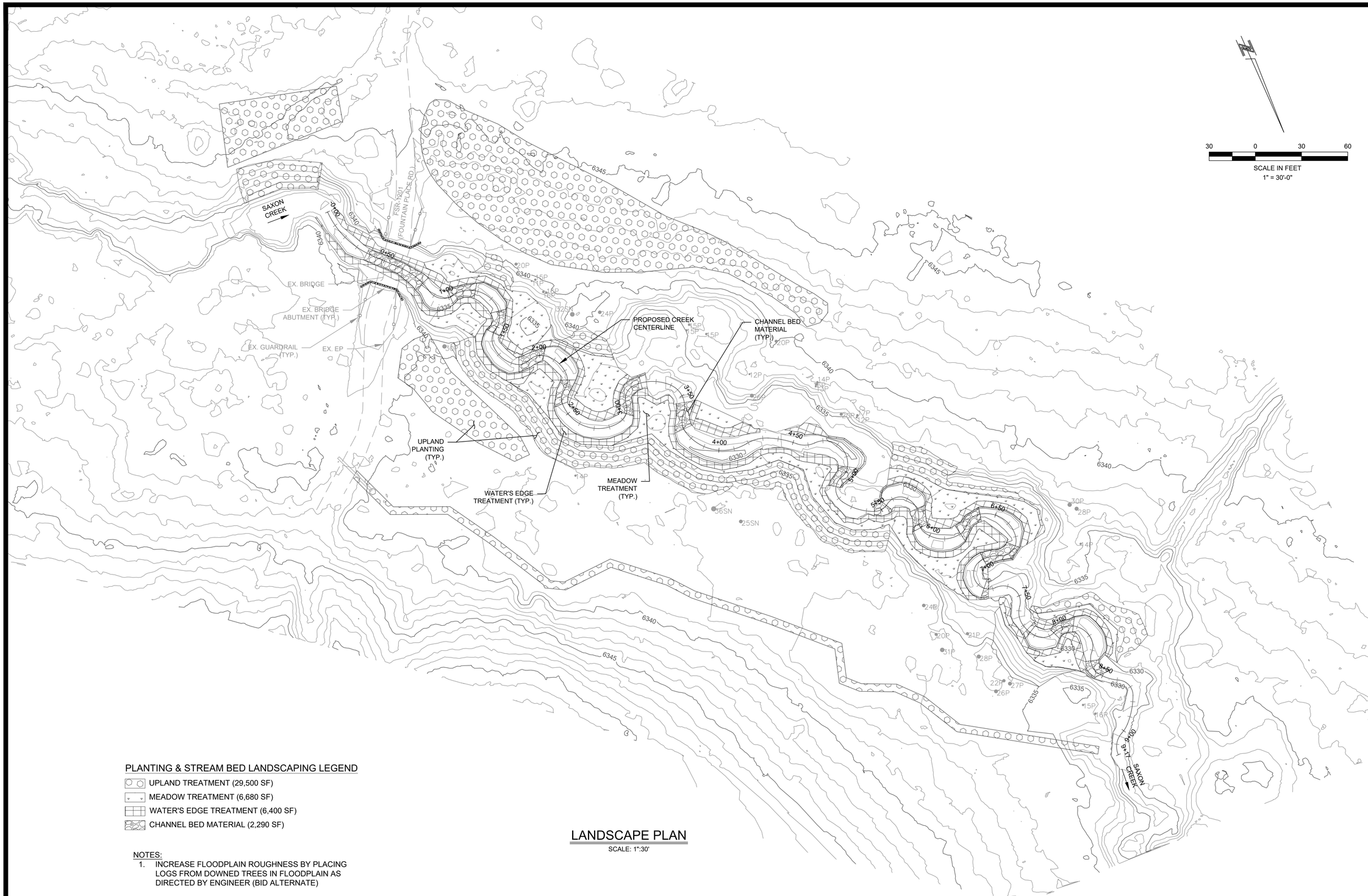
DETAILS
SAXON CREEK PHASE 2

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	07/2022
SCALE	AS SHOWN
PROJECT	SAXON CREEK PHASE 2
SHEET	D1.3

12 OF 13

BID SET

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



LANDSCAPE PLAN

SCALE: 1":30'

PLANTING & STREAM BED LANDSCAPING LEGEND

- UPLAND TREATMENT (29,500 SF)
- MEADOW TREATMENT (6,680 SF)
- WATER'S EDGE TREATMENT (6,400 SF)
- CHANNEL BED MATERIAL (2,290 SF)

NOTES:

1. INCREASE FLOODPLAIN ROUGHNESS BY PLACING LOGS FROM DOWNED TREES IN FLOODPLAIN AS DIRECTED BY ENGINEER (BID ALTERNATE)
2. ALL CONSTRUCTION ACCESS ROUTES ARE TO BE REVEGETATED (INCLUDED IN UPLAND TREATMENT AREA QUANTITY).
3. FOR UPLAND TREATMENT, SLOPES 3:1 OR STEEPER RECEIVE A SINGLE LAYER OF STRAW COCONUT BLANKET IN LIEU OF MULCH (~9,400 SF)

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

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STATE OF CALIFORNIA
7/6/2022

LANDSCAPE PLAN
SAXON CREEK PHASE 2

DESIGNED/DRAWN	PJ
CHECKED BY	MK
DATE	07/2022
SCALE	AS SHOWN
PROJECT	SAXON CREEK PHASE 2
SHEET	L1.0

BID SET