



PROJECT PLANS FOR THE CONSTRUCTION OF THE MARKLEEVILLE CREEK RESTORATION PROJECT MARKLEEVILLE CALIFORNIA



CONTRACTOR'S LICENSE CLASSIFICATION: BIDDERS SHALL BE PROPERLY LICENSED TO PERFORM THE WORK PURSUANT TO THE STATE CONTRACTOR'S LICENSE ACT (BUSINESS AND PROFESSIONS CODE SECTION 7000 ET SEQ.) AND SHALL POSSESS A CLASS A LICENSE OR EQUIVALENT COMBINATION OF CLASSES REQUIRED BY THE CATEGORIES AND TYPE OF WORK INCLUDED IN THE CONTRACT DOCUMENTS AND PLANS. IF THE CONTRACTOR POSSESSES A CLASS A LICENSE INSTEAD OF THE EQUIVALENT COMBINATION OF CLASSES REQUIRED BY THE CATEGORIES AND TYPE OF WORK INCLUDED IN THE CONTRACT DOCUMENTS AND PLANS, THEN THE CONTRACTOR OR A SUBCONTRACTOR MUST ALSO POSSESS A CLASS C27 "LANDSCAPING CONTRACTOR" LICENSE. FAILURE OF THE SUCCESSFUL BIDDER TO OBTAIN PROPER AND ADEQUATE LICENSING FOR AN AWARD OF THE CONTRACT SHALL CONSTITUTE A FAILURE TO EXECUTE THE CONTRACT, AND FORFEITURE AS PROVIDED UNDER THAT SECTION.

DATE			
REVISIONS			
NO.			
SEAL			
04/18/25			
		Stantec	
295 HWY 50, SUITE 1		STATELINE, NV 89449	
(775) 588-9069			
* CALL BEFORE YOU DIG *			
CONTACT UNDERGROUND SERVICE ALERT (USA)		1-800-227-2600	
PRIOR TO ANY CONSTRUCTION WORK			
TITLE SHEET		MARKLEEVILLE CREEK RESTORATION	
		ALPINE COUNTY, CALIFORNIA	
DATE:		04/2025	
DRAWN BY:		ND	
CHECKED BY:		BEM	
SCALE:		AS SHOWN	
STANTEC JOB NO. 185706442			
FIGURE NO.			
i			
SHEET 1 OF 33			

GENERAL NOTES

1. ALL IMPROVEMENTS SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION, AND TO THE SATISFACTION OF ALPINE COUNTY. IMPROVEMENT CONSTRUCTION SHALL COMPLY WITH THESE PLANS AND THE 2024 CALTRANS STANDARD PLANS, UNLESS NOTED OTHERWISE. ALL REFERENCES TO THE "STANDARD SPECIFICATIONS" SHALL MEAN THE 2024 CALTRANS STANDARD SPECIFICATIONS. CONSTRUCTION NOT SPECIFIED ON THESE PLANS OR IN SPECIFIC STATE, REGIONAL, OR LOCAL ORDINANCES SHALL CONFORM TO THE REQUIREMENTS OF THE 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 PROVISIONS SHALL SUPERSEDE THOSE OF THE STANDARD SPECIFICATIONS WHERE DISCREPANCIES OCCUR.
2. CONSTRUCTION HOURS SHALL BE WEEKDAYS BETWEEN 8:00 A.M. AND 6:30 P.M. UNLESS PRIOR APPROVAL IS RECEIVED FROM ALPINE COUNTY.
3. THE LOCATIONS AND EXTENT OF EXISTING UNDERGROUND UTILITIES IN THE WORK AREA AS SHOWN ARE APPROXIMATE AND ARE NOT NECESSARILY COMPLETE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE EXISTING UTILITIES BASED UPON AVAILABLE RECORDS. THE CONTRACTOR SHALL DETERMINE THE TYPE, LOCATION, SIZE, AND/OR DEPTH OF THE EXISTING UTILITIES WITHIN THE WORK AREA BEFORE COMMENCING WORK. THE CONTRACTOR OR AN SUBCONTRACTOR FOR THIS CONTRACT SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT (800) 642-2444 AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION. SEE SPECIAL PROVISIONS FOR CONTRACTOR NOTIFICATION REQUIREMENTS. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR DAMAGED UTILITIES.
4. UNLESS NOTED OTHERWISE ON THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL PROVIDE, PLACE, AND MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE CONSTRUCTION AREA AND FOR PUBLIC SAFETY IN ACCORDANCE WITH THESE PLANS, THE CALTRANS STANDARD PLANS AND SPECIFICATIONS, AND FEDERAL HIGHWAY ADMINISTRATION (FHWA) CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.
6. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS IN ACCORDANCE WITH THE PROVISIONS OUTLINED BY THE PROJECT CONTRACT AND STANDARD SPECIFICATIONS.
7. THE CONTRACTOR SHALL MAINTAIN A SET OF PLANS ON THE JOB SHOWING "AS-CONSTRUCTED" CHANGES MADE TO DATE. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUPPLY TO ALPINE COUNTY A SET OF PLANS, MARKED UP TO THE SATISFACTION OF ALPINE COUNTY, REFLECTING THE AS-CONSTRUCTED MODIFICATIONS.
8. ALL CONTROL STATIONING AND DATA DIMENSIONING ARE REFERENCED TO THE CENTERLINE OF THE FACILITY SHOWN UNLESS OTHERWISE NOTED.
9. AT NO TIME SHALL THE CONTRACTOR UNDERTAKE TO CLOSE OFF ANY EXISTING UTILITY LINES OR OPEN VALVES OR TAKE ANY OTHER ACTION WHICH WOULD AFFECT THE OPERATION OF EXISTING WATER OR SEWER SYSTEMS WITHOUT PRIOR APPROVAL FROM ALPINE COUNTY. APPROVAL SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE TIME THAT THE INTERRUPTION OF THE EXISTING SYSTEM IS REQUIRED. ANY INTERRUPTION OF SERVICE TO ACTIVE WATER OR SEWER SERVICES, INCLUDING FIRE HYDRANTS, WHETHER INTENTIONAL OR NOT, MUST BE KEPT TO A MINIMUM TIME PERIOD. IF SERVICE TO BUILDINGS IS TO BE OFF FOR MORE THAN FOUR HOURS, THE CONTRACTOR MUST ADVISE ALPINE COUNTY.
10. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM PREVENTIVE DUST CONTROL MEASURES TO ENSURE THAT DUST RESULTING FROM THE CONTRACTOR'S PERFORMANCE OF THE WORK IS CONTROLLED IN CONFORMANCE WITH STATE, COUNTY, AND LOCAL ORDINANCES. SEE SPECIAL PROVISIONS REGARDING SWEEPING, DUST CONTROL AND TRACKING REQUIREMENTS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY EROSION CONTROL MEASURES. THE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL CONTACT ALPINE COUNTY PRIOR TO THE COMMENCEMENT OF WORK FOR A PRE-GRADING INSPECTION OF THE INSTALLED TEMPORARY EROSION CONTROL FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PERFORMANCE OF THE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. SEE SPECIAL PROVISIONS REGARDING TEMPORARY EROSION CONTROL FACILITY REMOVAL.
12. CONSTRUCTION LIMITS SHOWN ON THE PLANS DELINEATE BOUNDARIES FOR THE CONTRACTOR'S OPERATIONS. CONSTRUCTION LIMIT FENCING SHALL BE ERECTED ALONG THESE BOUNDARIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. WITHIN THE CONSTRUCTION LIMITS, EXISTING VEGETATION SHALL BE PROTECTED TO THE EXTENT FEASIBLE. ALL EXISTING TREES SHALL BE PROTECTED UNLESS SHOWN ON THE PLANS TO BE REMOVED.
13. THE CONTRACTOR SHALL USE ONLY DESIGNATED SPECIFIC SITES FOR STORAGE OF EQUIPMENT AND MATERIALS AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL EQUIPMENT AND MATERIALS. NO MATERIALS SHALL BE STOCKPILED AND NO CONSTRUCTION EQUIPMENT SHALL BE PARKED ON CONCRETE OR ASPHALT SURFACES OWNED BY ALPINE COUNTY.
14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND HIS SUBCONTRACTOR(S) TO EXAMINE THE PROJECT SITE PRIOR TO THE OPENING OF BID PROPOSALS. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, SUCH AS THE NATURE AND LOCATION OF THE WORK AND THE GENERAL AND LOCAL CONDITIONS, PARTICULARLY THOSE AFFECTING THE AVAILABILITY OF TRANSPORTATION, THE DISPOSAL, HANDLING, AND STORAGE OF MATERIALS, AVAILABILITY OF LABOR, WATER, ELECTRICITY, ROADS, THE UNCERTAINTIES OF WEATHER, THE CONDITIONS OF THE GROUND, SURFACE AND SUBSURFACE MATERIALS, THE EQUIPMENT AND FACILITIES NEEDED PRIMARILY FOR AND DURING THE PERFORMANCE OF THE WORK, AND THE COSTS THEREOF. ANY FAILURE BY THE CONTRACTOR AND SUBCONTRACTOR(S) TO ACQUAINT HIMSELF WITH ALL THE AVAILABLE INFORMATION WILL NOT RELIEVE HIM FROM RESPONSIBILITY FOR PROPERLY ESTIMATING THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK.
15. ELEVATIONS SHOWN ON THE PLANS FOR PIPE INVERTS, TOPS OF BANKS, THALWEGS, GRADE CONTROLS, ETC., ARE BASED UPON THE TOPOGRAPHIC INFORMATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL NECESSARY SURFACE ELEVATIONS IN THE FIELD AND NOTIFY ALPINE COUNTY OF ANY DISCREPANCIES, WHICH MIGHT AFFECT PROPER OPERATION OF THE NEW FACILITIES BEFORE BREAKING GROUND AND PRIOR TO FACILITY INSTALLATION. ALPINE COUNTY SHALL BE CONTACTED IN THE EVENT ELEVATIONS ARE INCORRECT SO THAT THE PROPER ADJUSTMENTS CAN BE MADE PRIOR TO THE INSTALLATION OF THE FACILITIES.
16. ALL CONSTRUCTION SHALL BE ACCOMPLISHED IN STRICT COMPLIANCE WITH THE PLANS APPROVED

BY THE LAHONTAN REGIONAL WATER QUALITY CONTROL BOARD.

- REPLANTING OF ALL EXPOSED SURFACES, IN ACCORDANCE WITH THE PLANTING PLANS SHALL BE ACCOMPLISHED WITHIN THE FIRST CONSTRUCTION SEASON FOLLOWING DISTURBANCE, UNLESS AN APPROVED CONSTRUCTION/INSPECTION SCHEDULE IS ESTABLISHED OTHERWISE.
18. 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.
19. 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 THE OVERSEEING ENGINEER.
20. EXCAVATED MATERIAL SHALL BE STORED UPGRADE FROM THE EXCAVATED AREAS TO THE EXTENT POSSIBLE. NO MATERIAL SHALL BE STORED IN ANY UNDISTURBED STREAM ENVIRONMENT ZONE OR WET AREAS.
21. ONLY EQUIPMENT OF A SIZE AND TYPE THAT, UNDER PREVAILING SITE CONDITIONS, AND CONSIDERING THE NATURE OF THE WORK TO BE PERFORMED, WILL DO THE LEAST AMOUNT OF DAMAGE TO THE ENVIRONMENT SHALL BE USED.
22. THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL PERMITS, LICENSES, INSURANCE POLICIES, ETC., NOT ALREADY OBTAINED BY ALPINE COUNTY, AS MAY BE NECESSARY TO COMPLY WITH STATE AND LOCAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK. SEE SPECIAL PROVISIONS.
23. THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE CONTRACT DOCUMENTS FOR ALL SUBMITTALS REQUIRED FOR ALPINE COUNTY'S REVIEW AND ACCEPTANCE.
24. THE CONSULTANT TEAM AND OVERSEEING ENGINEER RESPONSIBLE FOR PREPARATION OF THESE PLANS AND SPECIFICATIONS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE CONSULTANT TEAM AND OVERSEEING ENGINEER RESPONSIBLE FOR PREPARATION OF THESE PLANS.
25. NO TREES OR WETLAND VEGETATION SHALL BE REMOVED UNLESS THEY ARE SHOWN AND NOTED TO BE REMOVED ON THE PLANS, OR AS DIRECTLY SPECIFIED ON-SITE BY THE PROJECT MANAGEMENT STAFF. ALL TREES CONFLICTING WITH GRADING SHALL BE TRIMMED. NO GRADING SHALL TAKE PLACE WITHIN THE DRIP LINE OF TREES NOT TO BE REMOVED UNLESS OTHERWISE APPROVED.
26. IF, DURING CONSTRUCTION, ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED, CONSTRUCTION IN THE VICINITY SHALL BE HALTED, THE STATE HISTORIC PRESERVATION OFFICE AND ALPINE COUNTY SHALL BE NOTIFIED IMMEDIATELY.
27. PERMIT CONDITIONS MAY CONTAIN SPECIFIC REQUIREMENTS FOR THE CONTROL OF OFF-SITE TURBIDITY FROM PROJECT OPERATIONS. TURBIDITY WILL BE MONITORED ON A FREQUENT BASIS BY THE PROJECT MANAGEMENT AND INSPECTION STAFF ON-SITE. TURBIDITY AMOUNTS IN EXCESS OF THE PERMITTED AMOUNT AND/OR DURATIONS WILL CAUSE WORK TO BE STOPPED UNTIL IMPROVED PRACTICES ARE IN EFFECT AND THE PROBLEMS CONTROLLED. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR ANY PROJECT DELAYS THAT OCCUR BY NATURE OF THIS FAILURE TO ADEQUATELY CONTAIN SEDIMENT ON-SITE.
28. ALL CONSTRUCTION SITES SHALL BE WINTERIZED UPON CONSTRUCTION COMPLETION, TO REDUCE THE WATER QUALITY IMPACTS ASSOCIATED WITH WINTER WEATHER AS FOLLOWS: TEMPORARY EROSION CONTROLS SHALL BE INSTALLED; TEMPORARY VEGETATION PROTECTION FENCING SHALL BE INSTALLED; DISTURBED AREAS SHALL BE STABILIZED; ON-SITE CONSTRUCTION SLASH AND DEBRIS SHALL BE CLEANED UP AND REMOVED; WHERE FEASIBLE, MECHANICAL STABILIZATION AND DRAINAGE IMPROVEMENTS SHALL BE INSTALLED; AND SPOIL PILES SHALL BE REMOVED FROM THE SITE.
29. THE PROJECT SHALL BE SUBJECT TO INSPECTIONS BY ANY PERMITTING, REGULATORY, OR FUNDING AGENCY AT ANY TIME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE PROJECT AREA ACCESSIBLE FOR INSPECTION PURPOSES. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL PERMITTING, REGULATORY, AND FUNDING AGENCIES.
30. ALL BARREN AREAS AND AREAS DISTURBED BY CONSTRUCTION SHALL BE REVEGETATED AS SHOWN ON THE PLANS. APPLICATION OF A MULCH MAY ENHANCE VEGETATIVE ESTABLISHMENT.
31. EXCAVATION EQUIPMENT SHALL BE LIMITED TO THE WORK AREA AS DEFINED IN THE PLANS TO MINIMIZE SITE DISTURBANCE.
32. THE DISCHARGE OF PETROLEUM PRODUCTS, CONSTRUCTION WASTE AND LITTER (INCLUDING SAWDUST), OR EARTHEN MATERIALS TO MARKLEEVILLE CREEK OR THE RECEIVING WATERS OF MARKLEEVILLE CREEK IS PROHIBITED. ALL SURPLUS CONSTRUCTION WASTE MATERIALS SHALL BE REMOVED FROM THE PROJECT AND DEPOSITED ONLY AT APPROVED POINTS OF DISPOSAL. DURING ANY CONSTRUCTION ACTIVITY, ALL VEHICLES SHALL DRIVE AT SPEEDS BELOW 15 MPH WHEN TRAVELING ON EXPOSED SURFACES.
33. DURING ANY CONSTRUCTION ACTIVITY, THE PERIOD OF TIME IN WHICH ANY PARTICULAR AREA REMAINS EXPOSED SHALL BE LIMITED TO THE MINIMUM EXTENT FEASIBLE.
34. THE PROJECT AREA IS UNDER THE JURISDICTION OF THE LAHONTAN REGIONAL WATER QUALITY CONTROL BOARD. THE AGENCY HAS ISSUED A PERMIT FOR THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE REQUIREMENTS OF THE PERMIT.
35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN AS SPECIFIED IN SPECIAL PROVISIONS OF THE CONSTRUCTION SPECIFICATIONS FOR APPROVAL. THE CONTRACTOR SHALL PROVIDE A COPY OF THE APPROVED PLAN TO ALPINE COUNTY, THE ENGINEER, AND LAHONTAN REGIONAL WATER QUALITY CONTROL BOARD PRIOR TO ANY CONSTRUCTION OPERATION REQUIRING DEWATERING.
36. ALL CONSTRUCTION EQUIPMENT SHALL RECEIVE PERIODIC MAINTENANCE AS REQUIRED FOR EFFICIENT OPERATION TO REDUCE ENGINE EMISSIONS.
37. PRIOR TO COMMENCEMENT OF EARTH DISTURBING ACTIVITIES, TEMPORARY SILT BARRIERS SHALL BE INSTALLED ON THE DOWNHILL SIDE OF THE AREA OF DISTURBANCE OR AS SHOWN ON THESE PLANS. THIS FENCE SHALL BE KEPT IN PLACE AND MAINTAINED UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
38. CONSTRUCTION MATERIALS SHALL BE SECURED TO PREVENT THEM FROM ROLLING, WASHING, OR BLOWING OFF THE PROJECT SITE. REHABILITATION AND CLEAN-UP OF THE SITE FOLLOWING CONSTRUCTION MUST INCLUDE REMOVAL OF ALL CONSTRUCTION WASTE AND DEBRIS.
39. THE CONTRACTOR SHALL USE TARPAULINS OR OTHER EFFECTIVE COVERS FOR HAUL TRUCKS THAT TRAVEL ON PUBLIC STREETS.
40. THE CONTRACTOR SHALL SCHEDULE CLEARING AND EARTH MOVING ACTIVITIES DURING PERIODS OF LOW WIND SPEEDS AND RESTRICT THOSE CONSTRUCTION ACTIVITIES WHEN WIND SPEEDS ARE GREATER THAN 20 MPH AVERAGE DURING AN HOUR.
41. CONSTRUCTION EQUIPMENT OPERATORS SHALL TURN OFF EQUIPMENT WHEN NOT IN USE TO AVOID UNNECESSARY IDLING. AS A GENERAL RULE, CONSTRUCTION VEHICLE IDLING SHOULD BE KEPT BELOW TEN MINUTES.
42. BECAUSE OF THE NATURE OF THE PROJECT, CAREFUL GRADING IS MANDATORY. THE CONTOUR

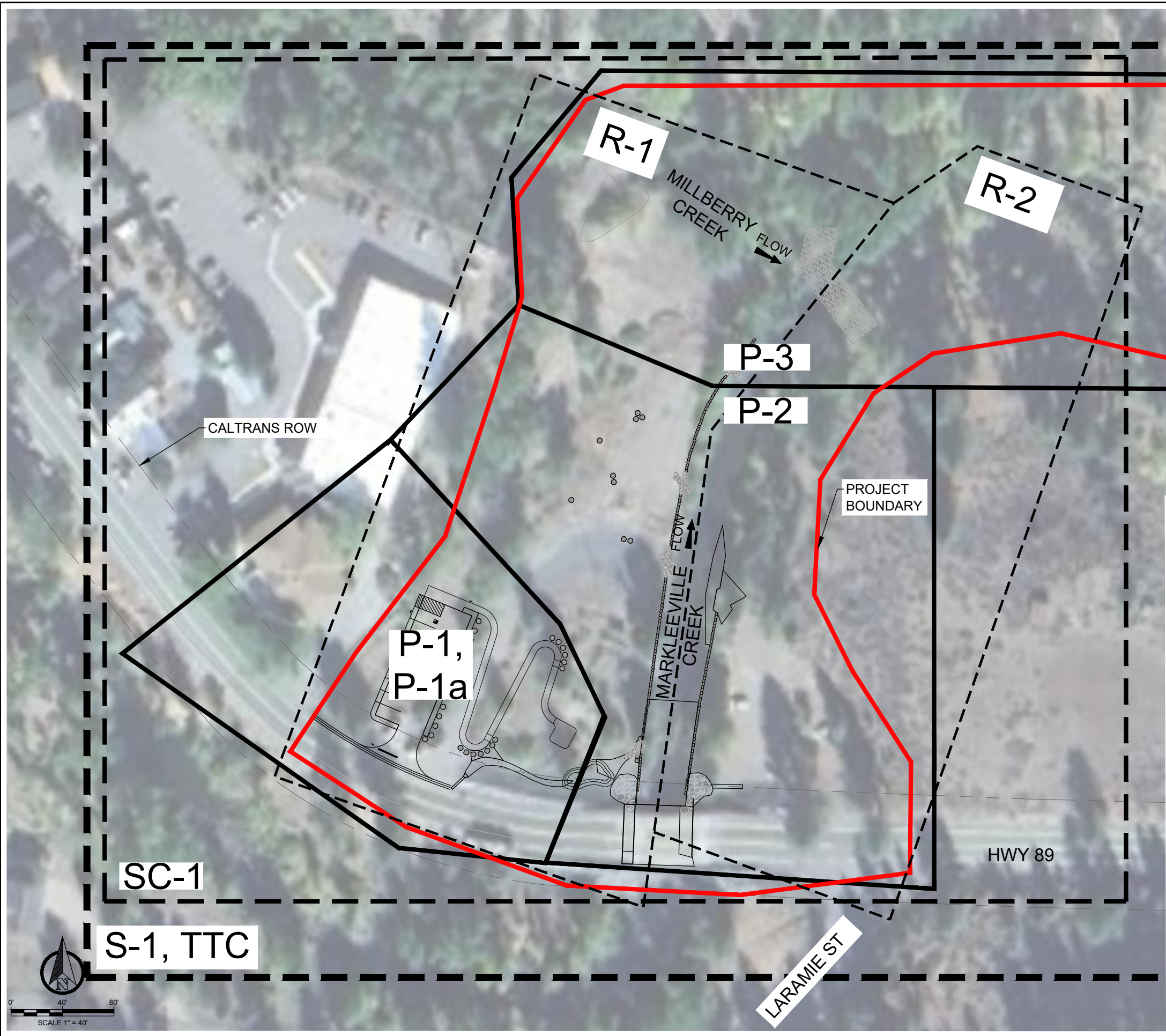
SHOWN ON THE PLANS REPRESENT THE GENERAL SHAPE OF THE LAND, BUT THE INTENT IS THAT ALL SLOPES, GRADE BREAKS, ETC. SHALL BE CONTOUR GRADED TO NATURAL, FLOWING SHAPES THAT SMOOTHLY TRANSITION, AS PART OF THE SCOPE OF WORK, THE CONTRACTOR SHALL WORK UNDER THE DIRECTION OF THE ENGINEER TO CREATE A NATURAL-LOOKING, IRREGULAR SURFACE WITH SMALL HUMMOCKS AND DEPRESSIONS IN THE WETLAND RESTORATION AREA RESEMBLING THE TOPOGRAPHY OF A NATURAL WETLAND. THIS WORK MAY REQUIRE HAND RAKING IN SOME AREAS AFTER GRADING OPERATIONS WITH EQUIPMENT ARE COMPLETED, AS DIRECTED BY THE ENGINEER.

48. THE CONSTRUCTION AREA FOR THE PROJECT IS LIMITED. THE CONTRACTOR SHALL EXERCISE THE UTMOST CARE TO LIMIT DISTURBANCE TO ADJACENT AREAS. THE ENGINEER AND THE CONTRACTOR WILL MARK THE LIMITS OF CONSTRUCTION PRIOR TO ANY WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONFINING ALL OF HIS CONSTRUCTION ACTIVITY TO WITHIN THESE LIMITS AND TO MAINTAIN THE BOUNDARY MARKERS.
49. IF EXCAVATED SOILS ARE SUITABLE AS DETERMINED BY THE ENGINEER FOR PLANT GROWTH, EXCAVATED MATERIAL SHALL BE STOCKPILED FOR USE WITHIN THE PROJECT AREA.
50. ANY ORGANIC LITTER OR DEBRIS SHALL BE REMOVED FROM THE TREATMENT AREA AND STOCKPILED FOR LATER REAPPLICATION.
51. PREPARED SEEDBEDS SHALL BE UNIFORMLY SEEDED UTILIZING HAND-OPERATED BROADCAST SEEDERS, OR APPROVED EQUIPMENT, AS DIRECTED BY THE ENGINEER. SEEDED AREAS SHALL BE MULCHED TO PREVENT SEED LOSS BY WIND ACTIVITY, AND TO PROVIDE FAVORABLE CONDITIONS FOR PLANT GROWTH. NO MORE AREA SHALL BE SEEDED THAN CAN BE MULCHED IN THAT SAME DAY. SEEDING SHALL NOT OCCUR UNDER CONDITIONS THAT WOULD ALLOW THE SEED TO BECOME WIND-BORNE. IMMEDIATELY FOLLOWING SEED APPLICATION, THE SEEDED AREAS SHALL BE LIGHTLY HAND RAKED TO ASSURE SEED PLACEMENT AT A DEPTH OF 1/4 TO 1/2 INCH.
52. SALVAGED WILLOWS WILL BE PLANTED IN RANDOM CLUSTERS TO CREATE A NATURAL APPEARANCE. ACTUAL PLANTING LOCATIONS WILL BE SITED IN THE FIELD AT THE TIME OF PLANTING BY THE ENGINEER.
53. PLANTING HOLES SHALL BE HAND DUG LARGE ENOUGH AND DEEP ENOUGH TO ACCOMMODATE THE ENTIRE ROOT MASS WITH ENOUGH ROOM TO REPLACE SOIL EASILY. SOIL IN THE BOTTOMS AND ALONG THE SIDES OF THE PLANTING HOLES SHALL BE LOOSENEED. EXCAVATED PLANTING HOLES SHALL BE PLANTED IMMEDIATELY TO AVOID DRYING OF SOILS.
54. PLANTS SHALL NOT BE ALLOWED TO DRY OUT BEFORE PLANTING. ROOTS SHALL NOT BE EXPOSED TO AIR EXCEPT WHILE ACTUALLY BEING PLACED IN THE PLANTING HOLE. PLANTS SHALL BE REMOVED FROM CONTAINERS AND SET VERTICALLY IN THE CENTERS OF THE HOLES SUCH THAT THE TOP OF THE ROOT MASS WILL BE APPROXIMATELY 2 INCHES BELOW THE EXISTING GRADE FOLLOWING BACKFILLING. SOIL SHALL BE REPLACED AND FIRMLY PACKED TO ELIMINATE AIR POCKETS. IMMEDIATELY FOLLOWING PLANTING, EACH PLANT SHALL BE THOROUGHLY WATERED SUCH THAT THE SOIL AROUND THE ROOTS WILL BE SATURATED FROM THE BOTTOM OF THE HOLE TO THE TOP OF THE GROUND.
55. IRRIGATION SHALL BE PROVIDED TO THE ENTIRE REVEGETATION AREA TO ESTABLISH THE SEEDING AND MAINTAIN THE CONTAINER PLANTINGS THROUGHOUT THE REMAINDER OF THE FIRST GROWING SEASON AND THE ENTIRE SECOND GROWING SEASON.
56. WATER DELIVERY TO THE REVEGETATION AREA SHALL BE LOW IMPACT TO PREVENT WASHING OF SOILS AND MULCH MATERIAL. A REGULAR WATERING FREQUENCY SHALL BE SCHEDULED AND ADJUSTED AS NECESSARY SUCH THAT NEITHER FLOODING NOR DESICCATION OF THE REVEGETATION AREA OCCURS. EXTREME CARE SHALL BE TAKEN WHEN WATERING CONTAINER PLANTINGS NOT TO DISTURB SEEDINGS AND STREAMBANKS.
57. ALL WORK SHALL BE IN COMPLIANCE WITH THE HABITAT RESTORATION PLAN FOR THIS PROJECT.

ABBREVIATIONS

ADA	ASPHALT CONCRETE	NTS	NOT TO SCALE
AWG	AMERICANS WITH DISABILITIES ACT	OHWM	ORDINARY HIGH WATER MARK
BGN	ALPINE WATERSHED GROUP	PT	POINT
BMP	BEGIN	QSD	QUALIFIED SWPPP DEVELOPER
CLF	BEST MANAGEMENT PRACTICES	QSP	QUALIFIED SWPPP PRACTITIONER
CP	CONSTRUCTION LIMIT FENCE	RC	RELATIVE COMPACTION
CY	CONTROL POINT	RLC	ROCK LINED CHANNEL
DIA	CUBIC YARDS	SF	SQUARE FOOT OR FEET
EA	DIAMETER	SDMH	STORM DRAIN MANHOLE
EG	EACH	SSMH	SANITARY SEWER MANHOLE
ELEV	EXISTING GROUND	STA	STATION
EP	ELEVATION	SWPPP	STORMWATER POLLUTION
EX	EDGE OF PAVEMENT		PREVENTION PLAN
FES	EXISTING	TTC	TEMPORARY TRAFFIC CONTROL
FG	FLARED END SECTION	TYP	TYPICAL
GALV	FINISHED GRADE	FL	FLOW LINE
HDPE	GALVANIZED	CVG	CONCRETE VALLEY GUTTER
IE	HIGH DENSITY POLYETHYLENE	RSP	ROCK SLOPE PROTECTION
LF	INVERT ELEVATION		
MAX	LINEAR FOOT OR FEET		
MIN	MAXIMUM		
MPUD	MINIMUM		
	MARKLEEVILLE PUBLIC		
	UTILITY DISTRICT		

[illegible]



SHEET LIST TABLE		
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2	ii	NOTES SHEET
3	iii	INDEX SHEET
4	SC-1	SURVEY CONTROL SHEET
5	S-1	STAGING, STORAGE, AND ACCESS SHEET
6	TTC-1	TEMPORARY TRAFFIC CONTROL 1
7	TTC-2	TEMPORARY TRAFFIC CONTROL 2
8	BMP-1	WATER MANAGEMENT AND EROSION CONTROL BLANKET PLAN
9	P-1PL	PARKING LOT AND CALTRANS ROW
10	P-1	ADA TRAIL
11	P-1a	ADA TRAIL
12	P-1b	CALTRANS DRAINAGE
13	P-2	MARKLEEVILLE CREEK
14	P-3	MILLBERRY AND LOWER MARKLEEVILLE
15	XS-1	CROSS SECTION SHEET 1
16	XS-2	CROSS SECTION SHEET 2
17	XS-3	CROSS SECTION SHEET 3
18	R-1	REVEGETATION SHEET 1
19	R-2	REVEGETATION SHEET 2
20	D-1	DETAIL SHEET 1
21	D-2	DETAIL SHEET 2
22	D-3	DETAIL SHEET 3
23	D-4	DETAIL SHEET 4
24	D-5	DETAIL SHEET 5
25	D-6	DETAIL SHEET 6
26	D-7	DETAIL SHEET 7
27	D-8	DETAIL SHEET 8
28	D-9	DETAIL SHEET 9
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CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NEED TO BE POTHOLED PRIOR TO CONSTRUCTION.

DATE

NO.

REVISIONS

SEAL

REGISTERED PROFESSIONAL ENGINEER

ALAN E. MORAN

NO. C 99100

EXP. 06/30/25

CIVIL

STATE OF CALIFORNIA

04/18/25

Stantec

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* CALL BEFORE
YOU DIG *

CONTACT UNDERGROUND SERVICE
ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK

INDEX SHEET

MARKLEEVILLE CREEK RESTORATION

ALPINE COUNTY, CALIFORNIA

DATE: 04/2025

DRAWN BY: AM

CHECKED BY: BEM

SCALE: AS SHOWN

STANTEC JOB NO. 185706442

FIGURE NO.

iii

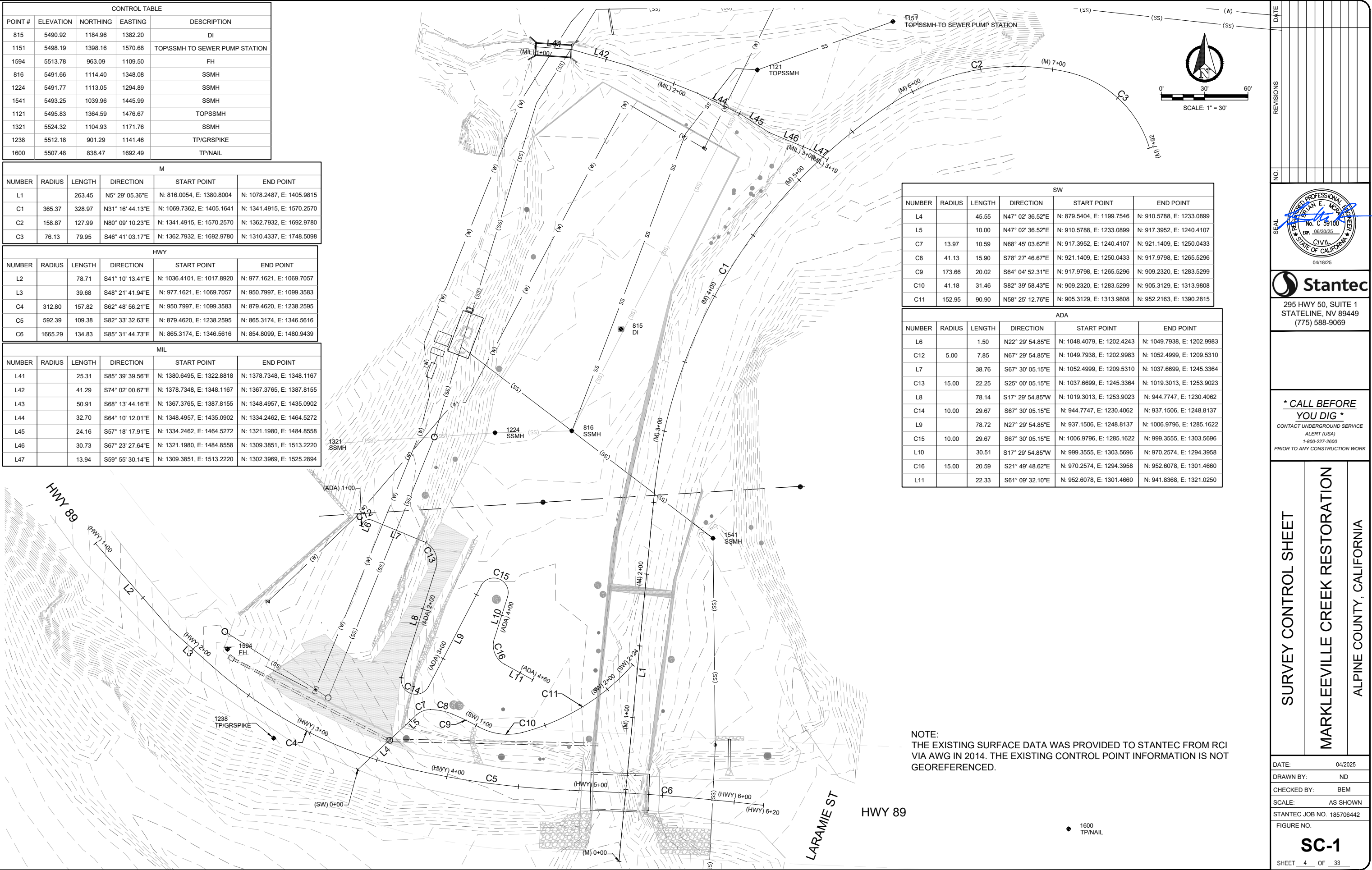
SHEET 3 OF 33

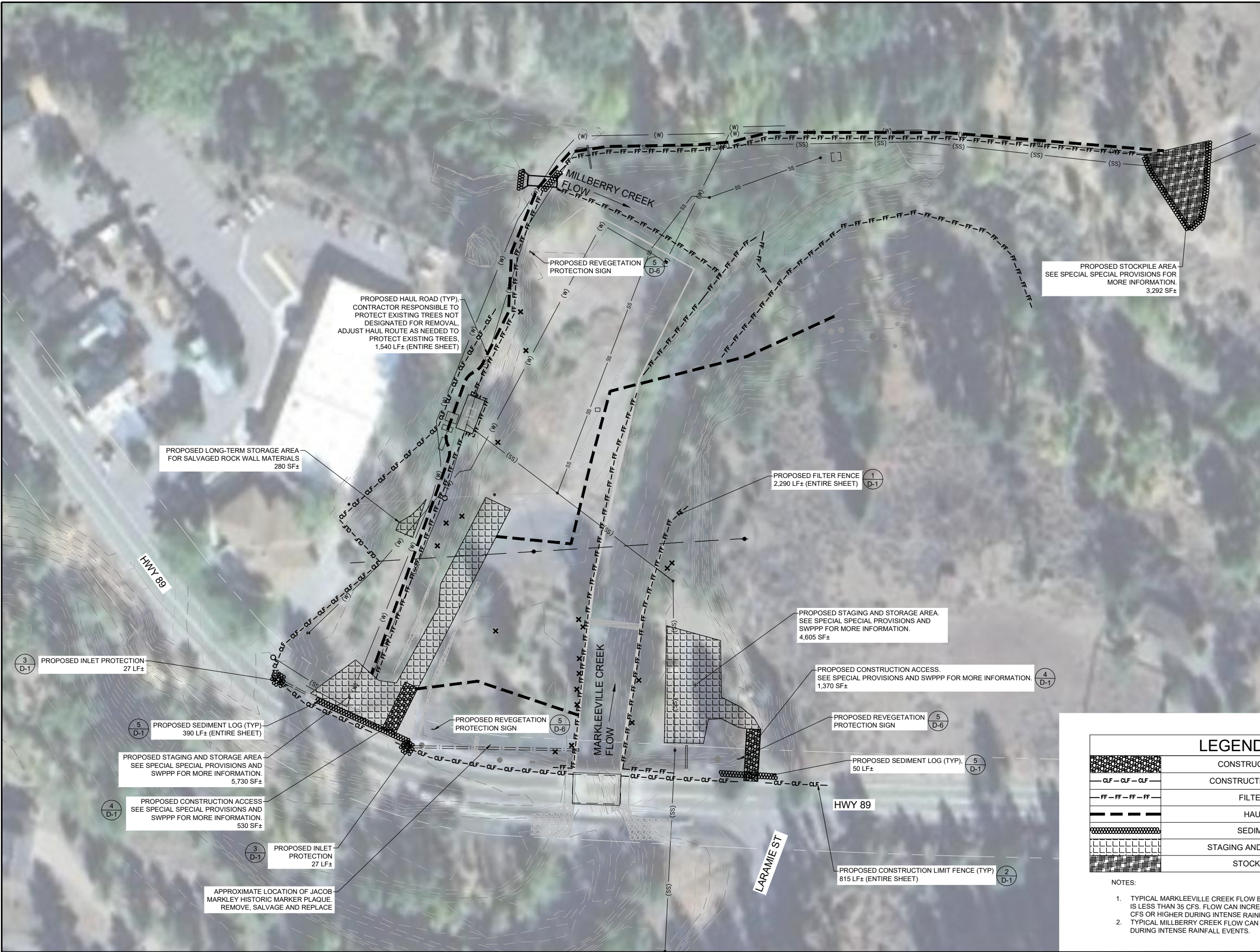
CONTROL TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
815	5490.92	1184.96	1382.20	DI
1151	5498.19	1398.16	1570.68	TOPISSMH TO SEWER PUMP STATION
1594	5513.78	963.09	1109.50	FH
816	5491.66	1114.40	1348.08	SSMH
1224	5491.77	1113.05	1294.89	SSMH
1541	5493.25	1039.96	1445.99	SSMH
1121	5495.83	1364.59	1476.67	TOPSSMH
1321	5524.32	1104.93	1171.76	SSMH
1238	5512.18	901.29	1141.46	TP/GRSPIKE
1600	5507.48	838.47	1692.49	TP/NAIL

M					
NUMBER	RADIUS	LENGTH	DIRECTION	START POINT	END POINT
L1		263.45	N5° 29' 05.36"E	N: 816.0054, E: 1380.8004	N: 1078.2487, E: 1405.9815
C1	365.37	328.97	N31° 16' 44.13"E	N: 1069.7362, E: 1405.1641	N: 1341.4915, E: 1570.2570
C2	158.87	127.99	N80° 09' 10.23"E	N: 1341.4915, E: 1570.2570	N: 1362.7932, E: 1692.9780
C3	76.13	79.95	S46° 41' 03.17"E	N: 1362.7932, E: 1692.9780	N: 1310.4337, E: 1748.5098

HWY					
NUMBER	RADIUS	LENGTH	DIRECTION	START POINT	END POINT
L2		78.71	S41° 10' 13.41"E	N: 1036.4101, E: 1017.8920	N: 977.1621, E: 1069.7057
L3		39.68	S48° 21' 41.94"E	N: 977.1621, E: 1069.7057	N: 950.7997, E: 1099.3583
C4	312.80	157.82	S62° 48' 56.21"E	N: 950.7997, E: 1099.3583	N: 879.4620, E: 1238.2595
C5	592.39	109.38	S82° 33' 32.63"E	N: 879.4620, E: 1238.2595	N: 865.3174, E: 1346.5616
C6	1665.29	134.83	S85° 31' 44.73"E	N: 865.3174, E: 1346.5616	N: 854.8099, E: 1480.9439

MIL					
NUMBER	RADIUS	LENGTH	DIRECTION	START POINT	END POINT
L41		25.31	S85° 39' 39.56"E	N: 1380.6495, E: 1322.8818	N: 1378.7348, E: 1348.1167
L42		41.29	S74° 02' 00.67"E	N: 1378.7348, E: 1348.1167	N: 1367.3765, E: 1387.8155
L43		50.91	S68° 13' 44.16"E	N: 1367.3765, E: 1387.8155	N: 1348.4957, E: 1435.0902
L44		32.70	S64° 10' 12.01"E	N: 1348.4957, E: 1435.0902	N: 1334.2462, E: 1464.5272
L45		24.16	S57° 18' 17.91"E	N: 1334.2462, E: 1464.5272	N: 1321.1980, E: 1484.8558
L46		30.73	S67° 23' 27.64"E	N: 1321.1980, E: 1484.8558	N: 1309.3851, E: 1513.2220
L47		13.94	S59° 55' 30.14"E	N: 1309.3851, E: 1513.2220	N: 1302.3969, E: 1525.2894





0'
40'
80'

SCALE 1" = 40'

REVISIONS

NO.

DATE

SEAL

REGISTERED PROFESSIONAL ENGINEER

RENEE M. E. MORRIS

No. C 39100

EXP. 06/30/25

CIVIL

STATE OF CALIFORNIA

04/18/25

Stantec

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(775) 588-9069

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YOU DIG *

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ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK

STAGING, STORAGE, AND ACCESS
SHEET

MARKLEEVILLE CREEK RESTORATION

ALPINE COUNTY, CALIFORNIA

DATE: 04/2025

DRAWN BY: ND

CHECKED BY: BEM

SCALE: AS SHOWN

STANTEC JOB NO. 185706442

FIGURE NO.

S-1

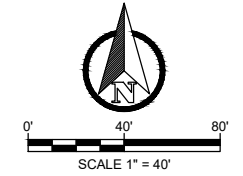
SHEET 5 OF 33

LEGEND	
	CONSTRUCTION ACCESS
	CONSTRUCTION LIMIT FENCE
	FILTER FENCE
	HAUL ROAD
	SEDIMENT LOG
	STAGING AND STORAGE AREA
	STOCKPILE AREA

NOTES:

1. TYPICAL MARKLEEVILLE CREEK FLOW BETWEEN AUG-OCT IS LESS THAN 35 CFS. FLOW CAN INCREASE RAPIDLY TO 70 CFS OR HIGHER DURING INTENSE RAINFALL EVENTS
2. TYPICAL MILLBERRY CREEK FLOW CAN INCREASE RAPIDLY DURING INTENSE RAINFALL EVENTS.

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EFFECTIVE PERIMETER CONTROLS AT ALL TIMES.
2. TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE PLACED, MAINTAINED, AND ADJUSTED AS NECESSARY RELATIVE TO EACH DAILY ACTIVE WORKING AREA.
3. DURING ALL TIMES OF ROAD WORK AND LANE CLOSURES THE CONTRACTOR SHALL ASSURE "SAFE" PEDESTRIAN AND BICYCLE ACCESS THROUGH THE WORK ZONE
4. SEE SPECIAL PROVISIONS FOR CONSTRUCTION HOURS AND LANE CLOSURES/DETOURS DAYS AND HOURS REQUIREMENTS.
5. THE CONTRACTOR SHALL PROVIDE, PLACE, AND MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE CONSTRUCTION AREA FOR PUBLIC SAFETY IN ACCORDANCE WITH THESE PLANS, SPECIAL PROVISIONS, CALTRANS STANDARD PLANS/SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (FHWA, FP-14), THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION AND 2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
6. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF WORK FOR THIS PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THE CONTRACTOR FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS
7. SEE SHEETS BMP-1 AND S-1 FOR ALL BEST MANAGEMENT PRACTICES (BMP), WATER QUALITY (W.Q.) AND CONSTRUCTION LIMIT FENCE (CLF) INFORMATION.
8. TRAFFIC CONTROL SHOWN ON THIS SHEET IS REPRESENTATIVE ONLY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DEVELOPING AND SUBMITTING AN ACCEPTABLE TRAFFIC CONTROL PLAN TO BOTH ALPINE COUNTY AND CALTRANS, BASED ON FIELD CONDITIONS EXISTING IN THE CONSTRUCTION ZONES AT THE TIME OF CONSTRUCTION. SEE SPECIAL PROVISIONS.

[illegible]

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YOU DIG *
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PRIOR TO ANY CONSTRUCTION WORK

TEMPORARY TRAFFIC CONTROL 1

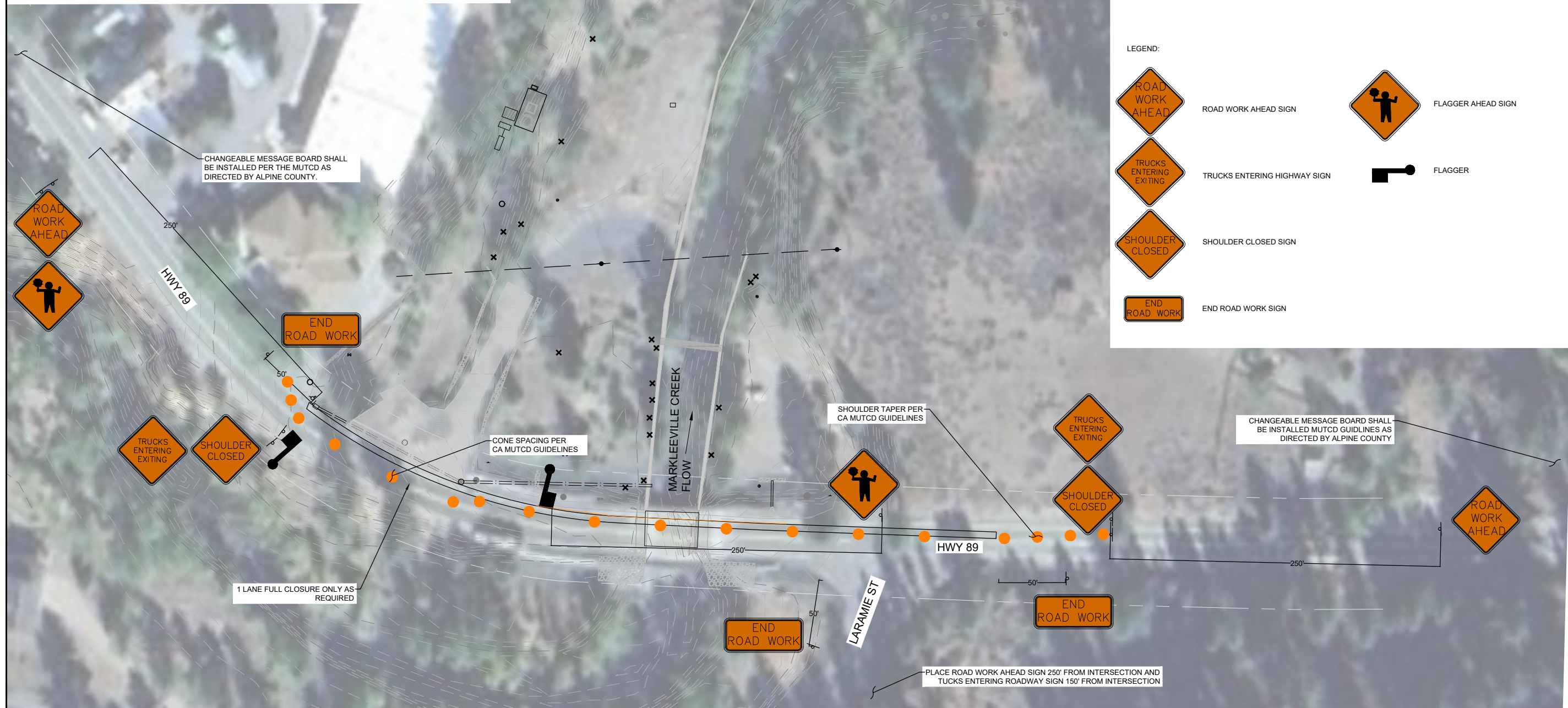
MARKLEEVILLE CREEK RESTORATION

ALPINE COUNTY, CALIFORNIA

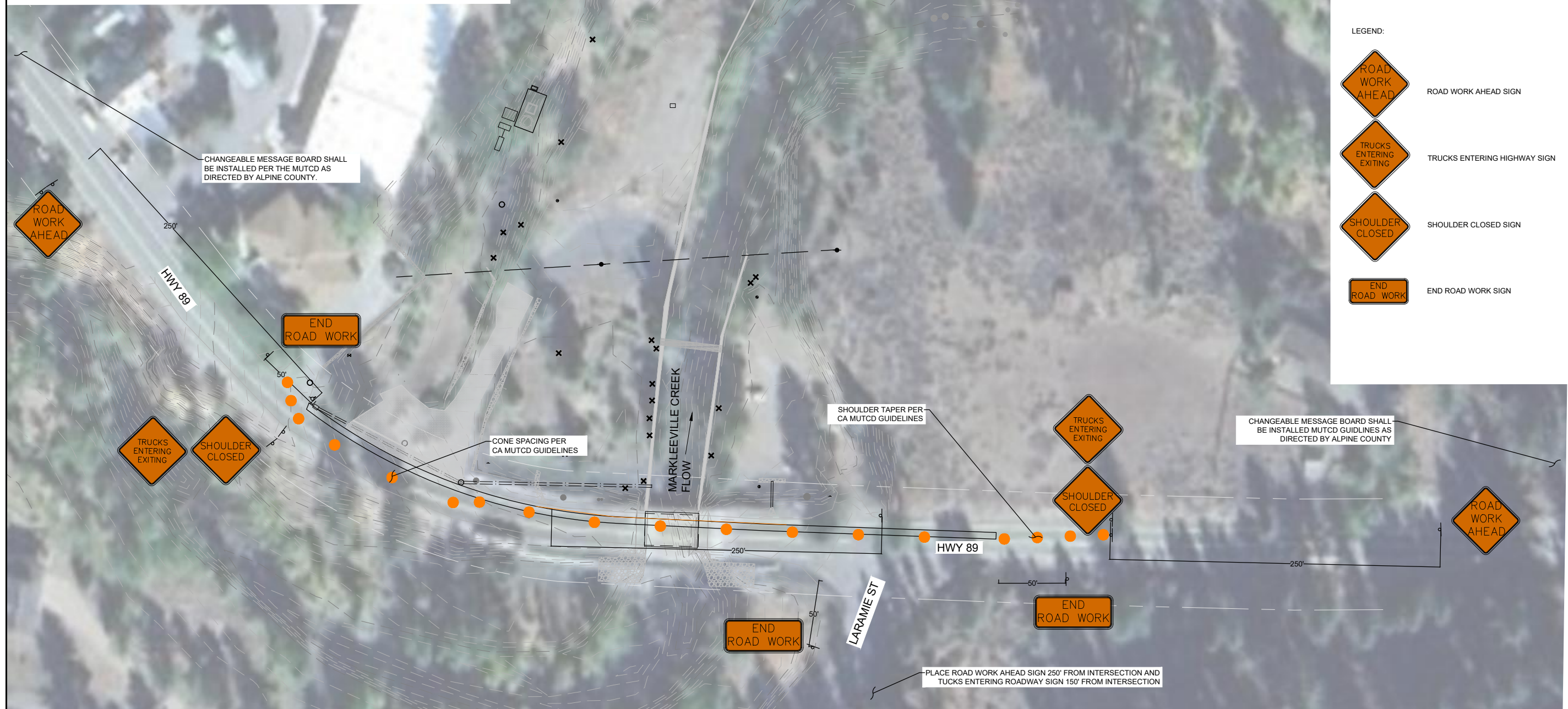
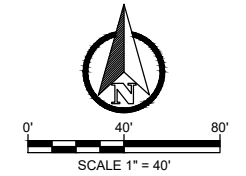
DATE:	04/2025
DRAWN BY:	ND
CHECKED BY:	BEM
SCALE:	AS SHOWN
STANTEC JOB NO.	185706442
FIGURE NO.	

TTC-1

SHEET 6 OF 33



1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EFFECTIVE PERIMETER CONTROLS AT ALL TIMES.
2. TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE PLACED, MAINTAINED, AND ADJUSTED AS NECESSARY RELATIVE TO EACH DAILY ACTIVE WORKING AREA.
3. DURING ALL TIMES OF ROAD WORK AND LANE CLOSURES THE CONTRACTOR SHALL ASSURE "SAFE" PEDESTRIAN AND BICYCLE ACCESS THROUGH THE WORK ZONE
4. SEE SPECIAL PROVISIONS FOR CONSTRUCTION HOURS AND LANE CLOSURES/DETOURS DAYS AND HOURS REQUIREMENTS.
5. THE CONTRACTOR SHALL PROVIDE, PLACE, AND MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE CONSTRUCTION AREA FOR PUBLIC SAFETY IN ACCORDANCE WITH THESE PLANS, SPECIAL PROVISIONS, CALTRANS STANDARD PLANS/SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (FHWA, FP-14), THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION AND 2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
6. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF WORK FOR THIS PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THE CONTRACTOR FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS
7. SEE SHEETS BMP-1 AND S-1 FOR ALL BEST MANAGEMENT PRACTICES (BMP), WATER QUALITY (W.Q.) AND CONSTRUCTION LIMIT FENCE (CLF) INFORMATION.
8. TRAFFIC CONTROL SHOWN ON THIS SHEET IS REPRESENTATIVE ONLY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DEVELOPING AND SUBMITTING AN ACCEPTABLE TRAFFIC CONTROL PLAN TO BOTH ALPINE COUNTY AND CALTRANS, BASED ON FIELD CONDITIONS EXISTING IN THE CONSTRUCTION ZONES AT THE TIME OF CONSTRUCTION. SEE SPECIAL PROVISIONS.

[illegible]

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1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK

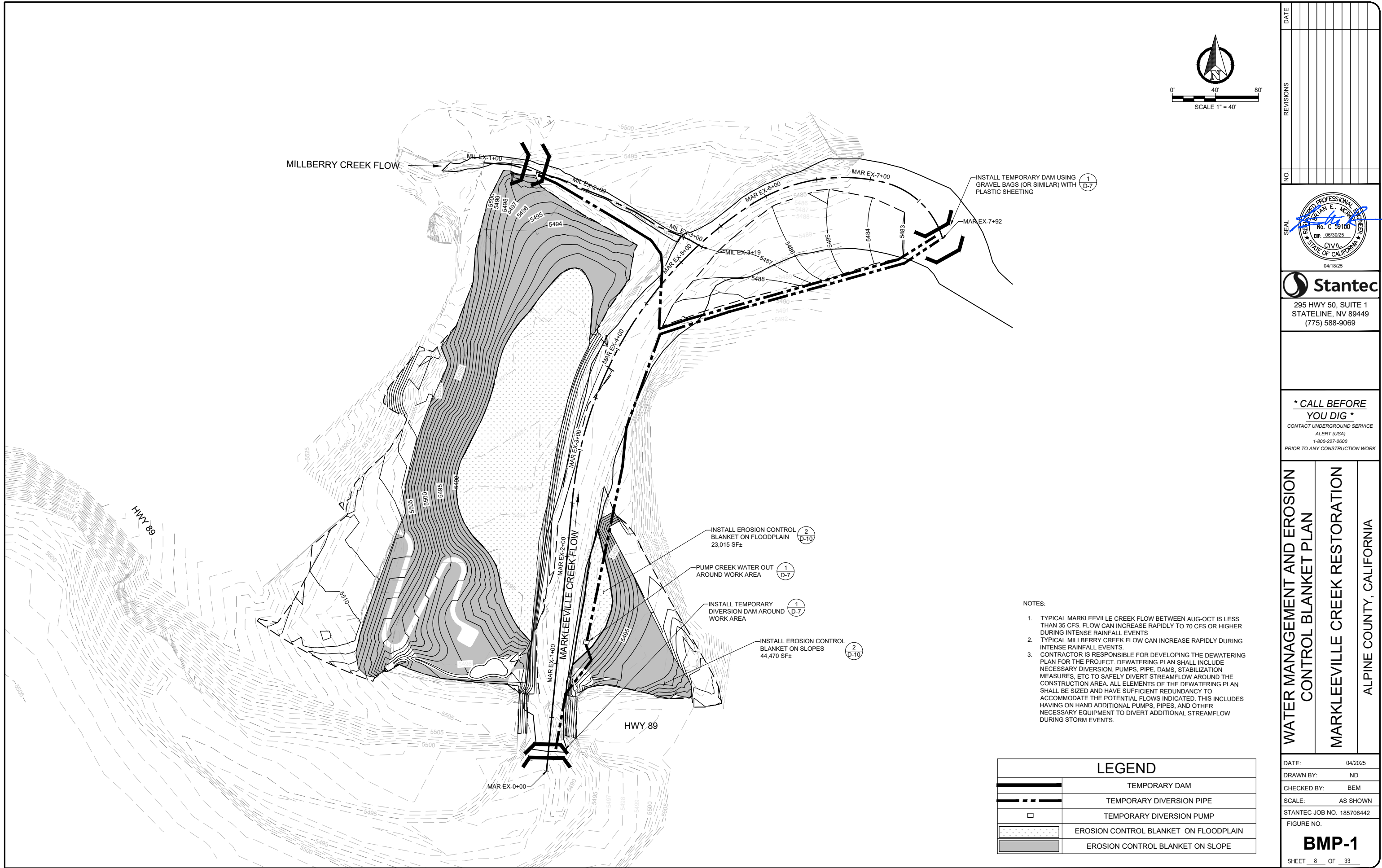
TEMPORARY TRAFFIC CONTROL 2

MARKLEEVILLE CREEK RESTORATION

ALPINE COUNTY, CALIFORNIA

DATE:	04/2025
DRAWN BY:	ND
CHECKED BY:	BEM
SCALE:	AS SHOWN
STANTEC JOB NO.	185706442
FIGURE NO.	

TTC-2
SHEET 7 OF 33



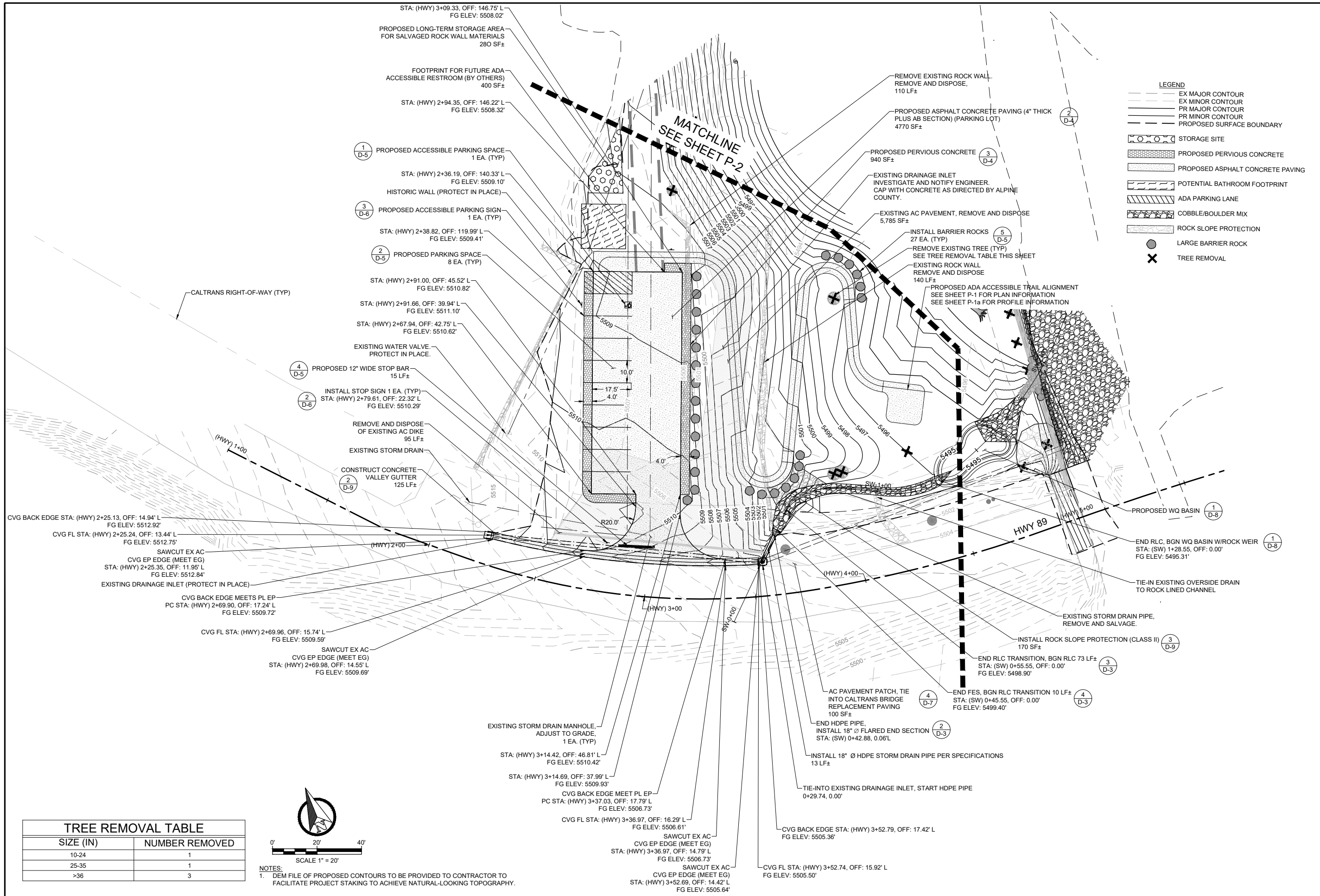
- NOTES:
1. TYPICAL MARKLEEVILLE CREEK FLOW BETWEEN AUG-OCT IS LESS THAN 35 CFS. FLOW CAN INCREASE RAPIDLY TO 70 CFS OR HIGHER DURING INTENSE RAINFALL EVENTS
 2. TYPICAL MILLBERRY CREEK FLOW CAN INCREASE RAPIDLY DURING INTENSE RAINFALL EVENTS.
 3. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING THE DEWATERING PLAN FOR THE PROJECT. DEWATERING PLAN SHALL INCLUDE NECESSARY DIVERSION, PUMPS, PIPE, DAMS, STABILIZATION MEASURES, ETC TO SAFELY DIVERT STREAMFLOW AROUND THE CONSTRUCTION AREA. ALL ELEMENTS OF THE DEWATERING PLAN SHALL BE SIZED AND HAVE SUFFICIENT REDUNDANCY TO ACCOMMODATE THE POTENTIAL FLOWS INDICATED. THIS INCLUDES HAVING ON HAND ADDITIONAL PUMPS, PIPES, AND OTHER NECESSARY EQUIPMENT TO DIVERT ADDITIONAL STREAMFLOW DURING STORM EVENTS.

LEGEND	
	TEMPORARY DAM
	TEMPORARY DIVERSION PIPE
	TEMPORARY DIVERSION PUMP
	EROSION CONTROL BLANKET ON FLOODPLAIN
	EROSION CONTROL BLANKET ON SLOPE

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ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK

WATER MANAGEMENT AND EROSION
CONTROL BLANKET PLAN
MARKLEEVILLE CREEK RESTORATION
ALPINE COUNTY, CALIFORNIA

DATE: 04/2025
DRAWN BY: ND
CHECKED BY: BEM
SCALE: AS SHOWN
STANTEC JOB NO. 185706442
FIGURE NO.



DATE

REVISIONS

NO.

SEAL

REGISTERED PROFESSIONAL ENGINEER

RENEE E. MORGAN

No. C 39100

EXP. 06/30/25

CIVIL

STATE OF CALIFORNIA

04/18/25

Stantec

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STATELINE, NV 89449

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1-800-227-2600

PRIOR TO ANY CONSTRUCTION WORK

PLAN SHEET

PARKING LOT AND CALTRANS ROW

MARKLEEVILLE CREEK RESTORATION

ALPINE COUNTY, CALIFORNIA

DATE:

04/2025

DRAWN BY:

ND

CHECKED BY:

BEM

SCALE:

AS SHOWN

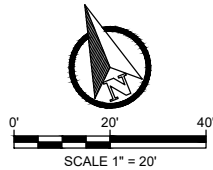
STANTEC JOB NO. 185706442

FIGURE NO.

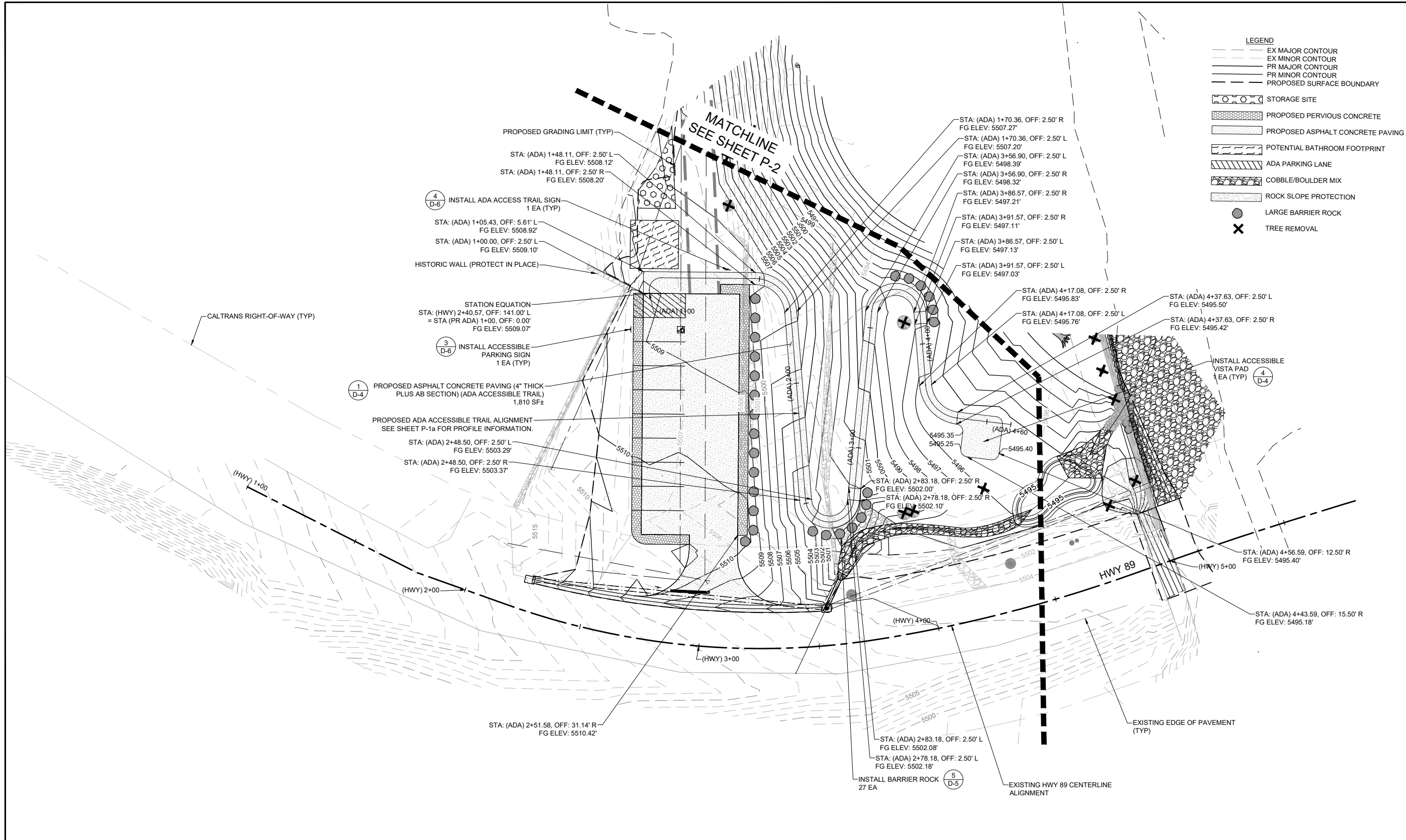
P-1PL

SHEET 9 OF 33

TREE REMOVAL TABLE	
SIZE (IN)	NUMBER REMOVED
12-24	1
25-35	1
>36	3

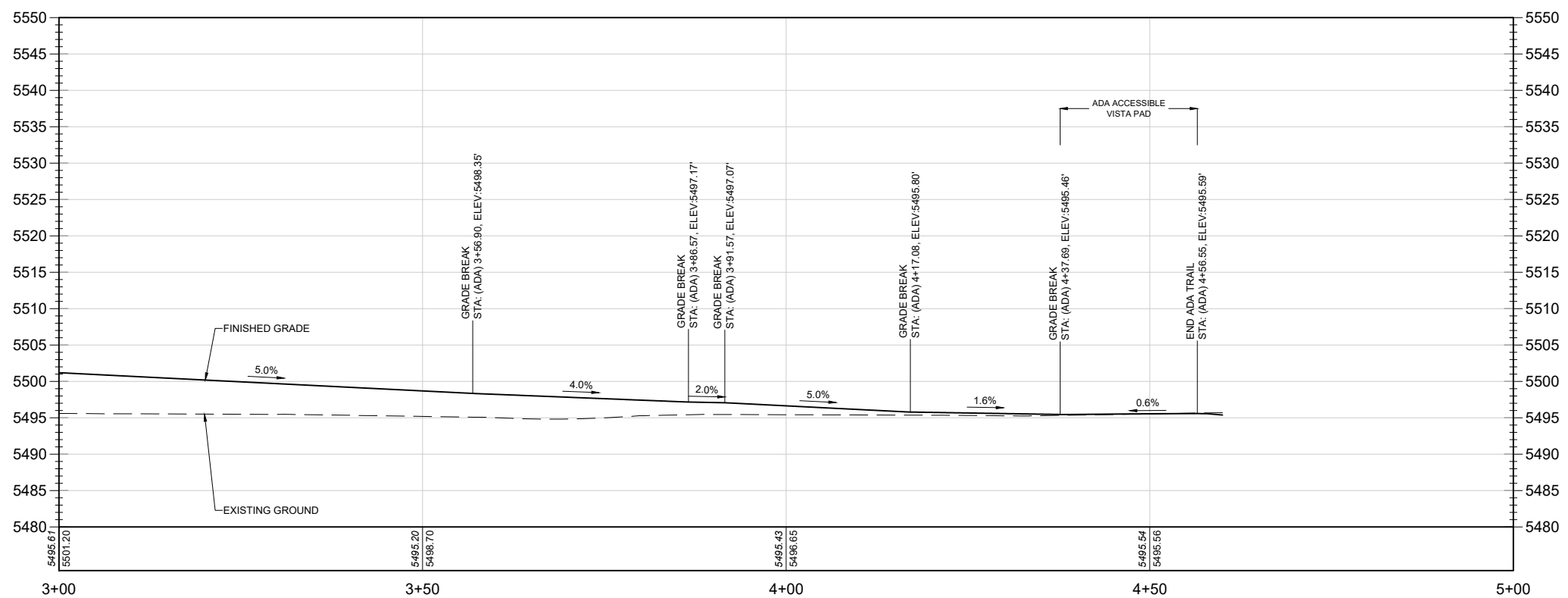
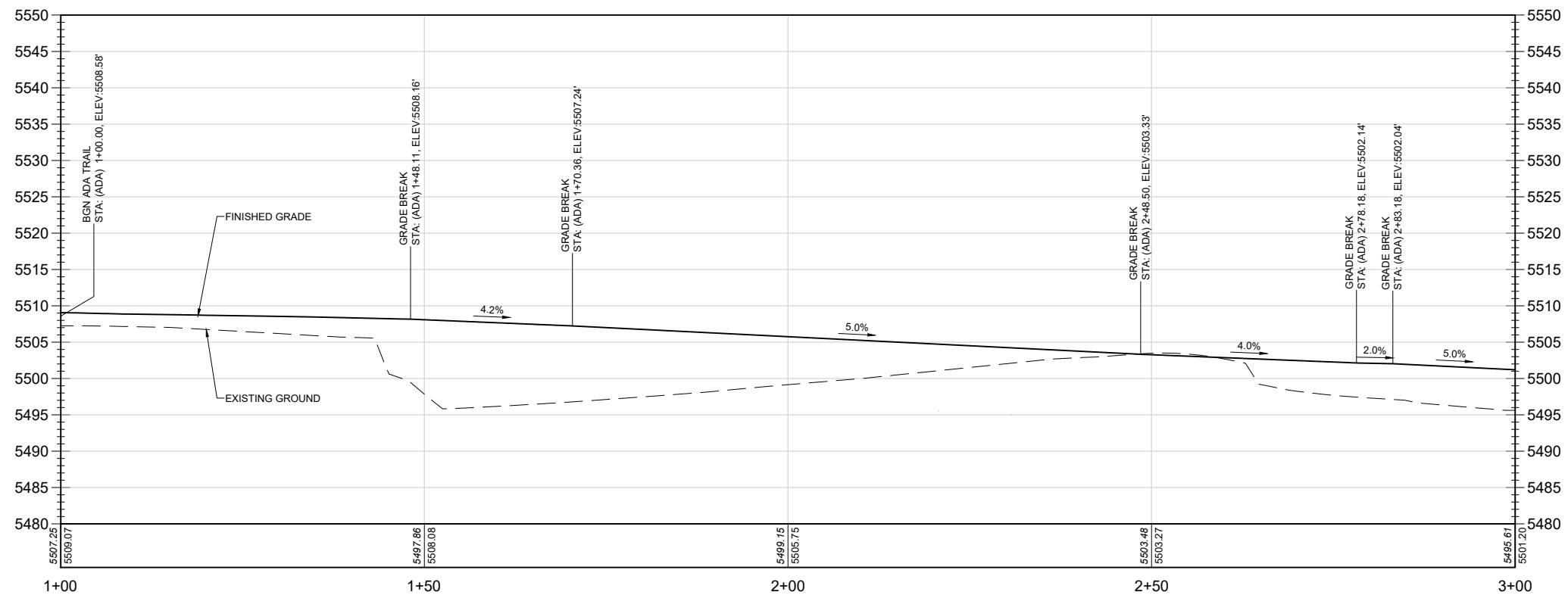


NOTES:
1. DEM FILE OF PROPOSED CONTOURS TO BE PROVIDED TO CONTRACTOR TO FACILITATE PROJECT STAKING TO ACHIEVE NATURAL-LOOKING TOPOGRAPHY.



- LEGEND**
- EX MAJOR CONTOUR
 - EX MINOR CONTOUR
 - PR MAJOR CONTOUR
 - PR MINOR CONTOUR
 - PROPOSED SURFACE BOUNDARY
 - STORAGE SITE
 - PROPOSED PERVIOUS CONCRETE
 - PROPOSED ASPHALT CONCRETE PAVING
 - POTENTIAL BATHROOM FOOTPRINT
 - ADA PARKING LANE
 - COBBLE/BOULDER MIX
 - ROCK SLOPE PROTECTION
 - LARGE BARRIER ROCK
 - TREE REMOVAL

DATE	04/18/25
REVISIONS	
NO.	
295 HWY 50, SUITE 1 STATELINE, NV 89449 (775) 588-9069	
<p>* CALL BEFORE YOU DIG *</p> <p>CONTACT UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600 PRIOR TO ANY CONSTRUCTION WORK</p>	
PLAN SHEET	MARKLEEVILLE CREEK RESTORATION
ADA TRAIL	ALPINE COUNTY, CALIFORNIA
DATE:	04/2025
DRAWN BY:	ND
CHECKED BY:	BEM
SCALE:	AS SHOWN
STANTEC JOB NO.	185706442
FIGURE NO.	
<p>P-1</p>	
SHEET 10 OF 33	

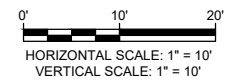


0' 10' 20'

HORIZONTAL SCALE: 1" = 10'

VERTICAL SCALE: 1" = 10'

						DATE	
						REVIEWS	
						NO.	
04/18/25							
295 HWY 50, SUITE 1 STATELINE, NV 89449 (775) 588-9069							
<p align="center"><u>* CALL BEFORE YOU DIG *</u></p> <p align="center">CONTACT UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600</p> <p align="center">PRIOR TO ANY CONSTRUCTION WORK</p>							
PROFILE SHEET ADA TRAIL. A				MARKLEEVILLE CREEK RESTORATION			
				ALPINE COUNTY, CALIFORNIA			
DATE:				04/2025			
DRAWN BY:				ND			
CHECKED BY:				BEM			
SCALE:				AS SHOWN			
STANTEC JOB NO. 185706442							
FIGURE NO.							
<div style="text-align: center; font-size: 2em; font-weight: bold;">P-1a</div>							
SHEET 11 OF 33							



PROFILE SHEET

CALTRANS DRAINAGE

MARKLEEVILLE CREEK RESTORATION

ALPINE COUNTY, CALIFORNIA

DATE:	04/2025
DRAWN BY:	ND
CHECKED BY:	BEM
SCALE:	AS SHOWN
STANTEC JOB NO. 185706442	
FIGURE NO.	

P-1b

SHEET 12 OF 33

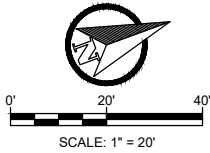
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YOU DIG *

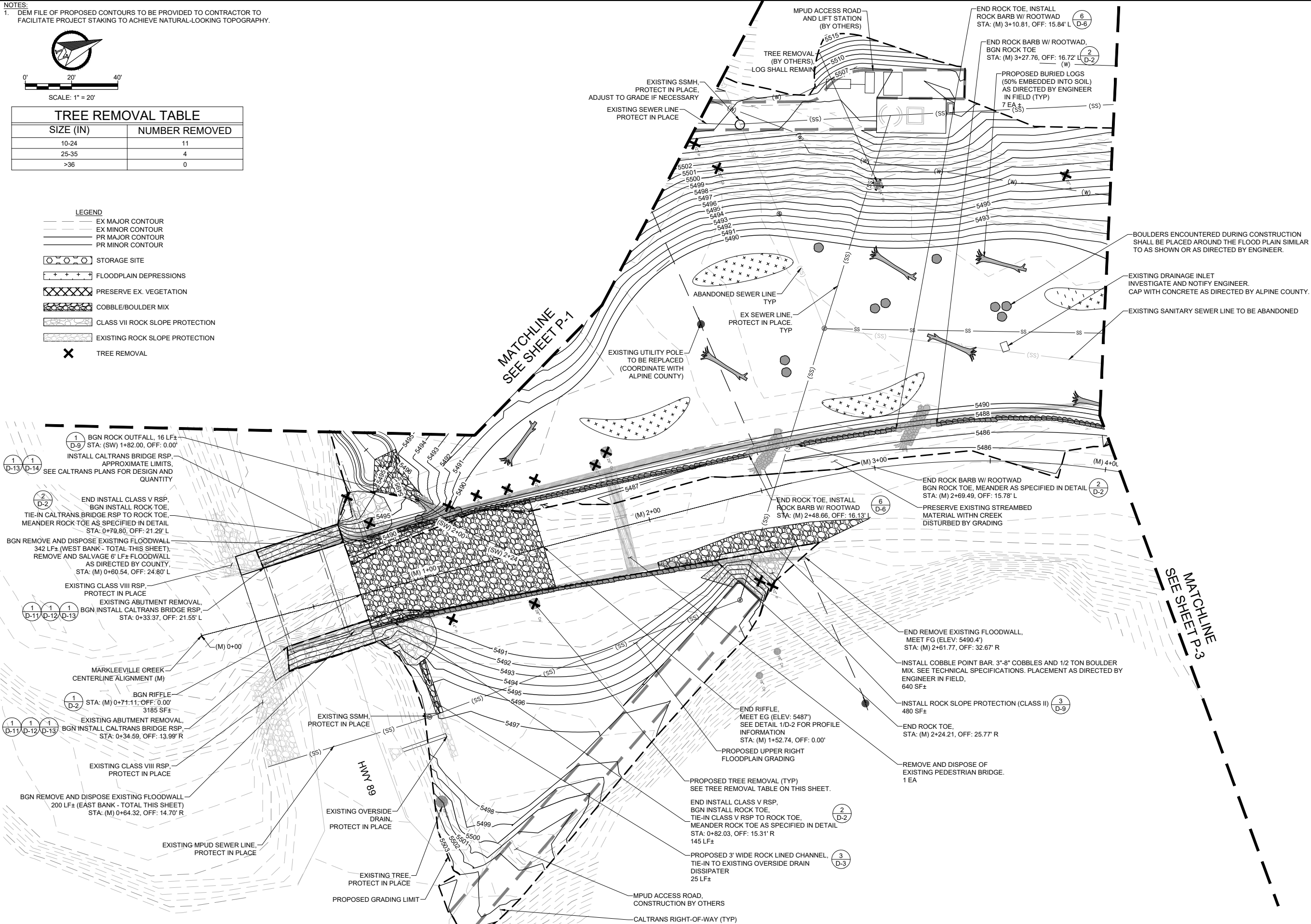
**CONTACT UNDERGROUND SERVICE
ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK**

NOTES:
1. DEM FILE OF PROPOSED CONTOURS TO BE PROVIDED TO CONTRACTOR TO FACILITATE PROJECT STAKING TO ACHIEVE NATURAL-LOOKING TOPOGRAPHY.

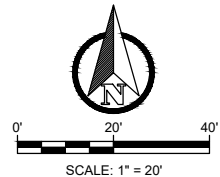
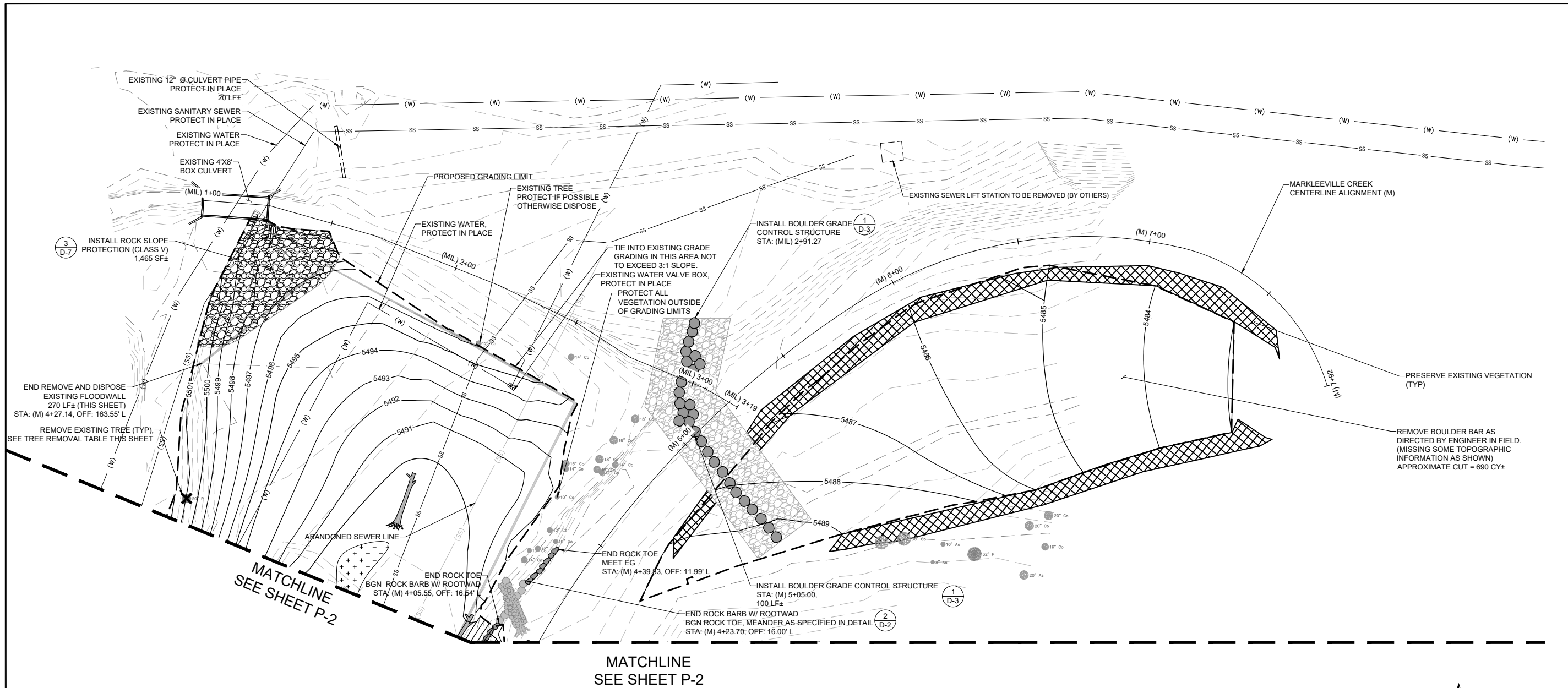


TREE REMOVAL TABLE	
SIZE (IN)	NUMBER REMOVED
10-24	11
25-35	4
>36	0

- LEGEND**
- EX MAJOR CONTOUR
 - EX MINOR CONTOUR
 - PR MAJOR CONTOUR
 - PR MINOR CONTOUR
 - STORAGE SITE
 - FLOODPLAIN DEPRESSIONS
 - PRESERVE EX. VEGETATION
 - COBBLE/BOULDER MIX
 - CLASS VII ROCK SLOPE PROTECTION
 - EXISTING ROCK SLOPE PROTECTION
 - TREE REMOVAL



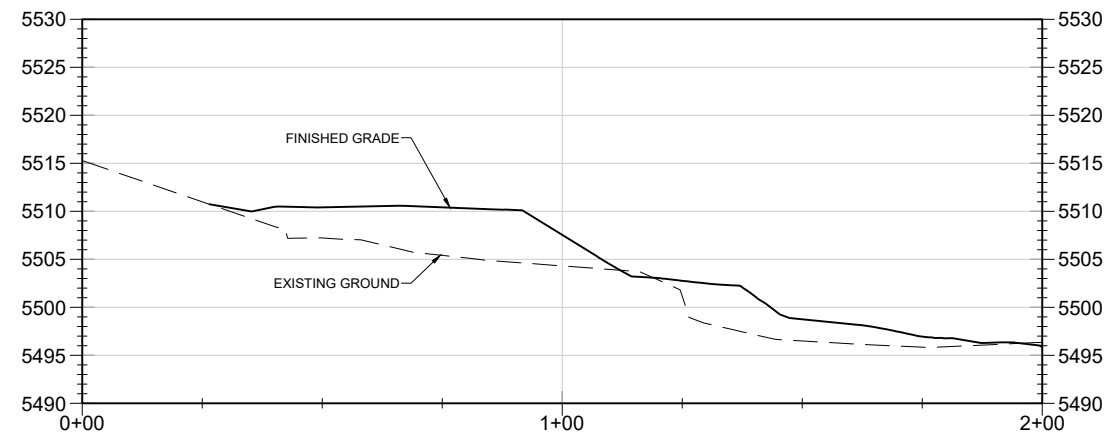
DATE	
REVISIONS	
NO.	
SEAL	
	04/18/25
	Stantec
	295 HWY 50, SUITE 1 STATELINE, NV 89449 (775) 588-9069
	* CALL BEFORE YOU DIG * CONTACT UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600 PRIOR TO ANY CONSTRUCTION WORK
PLAN SHEET	MARKLEEVILLE CREEK
MARKLEEVILLE CREEK RESTORATION	
ALPINE COUNTY, CALIFORNIA	
DATE:	04/2025
DRAWN BY:	ND
CHECKED BY:	BEM
SCALE:	AS SHOWN
STANTEC JOB NO.	185706442
P-2	
SHEET 13 OF 33	



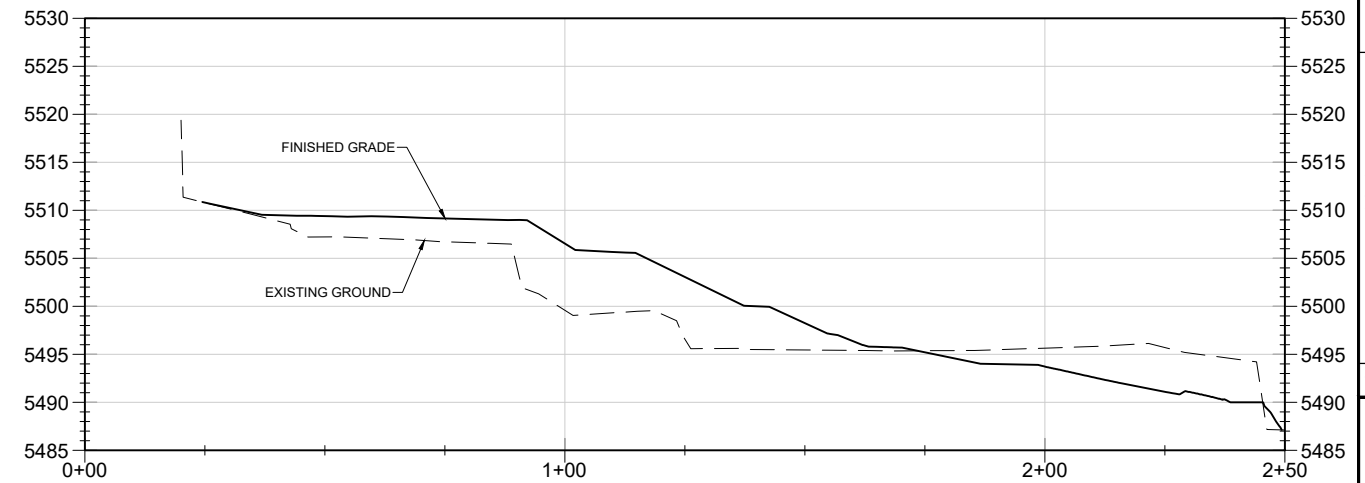
- LEGEND
- EX MAJOR CONTOUR
 - EX MINOR CONTOUR
 - PR MAJOR CONTOUR
 - PR MINOR CONTOUR
 - NO TOPOGRAPHY
 - [Cross-hatched pattern] PRESERVE EX VEGETATION
 - [Stippled pattern] COBBLE/ BOULDER MIX
 - [Dashed pattern] FLOODPLAIN DEPRESSION

TREE REMOVAL TABLE	
SIZE (IN)	NUMBER REMOVED
10-24	1
25-35	0
>36	0

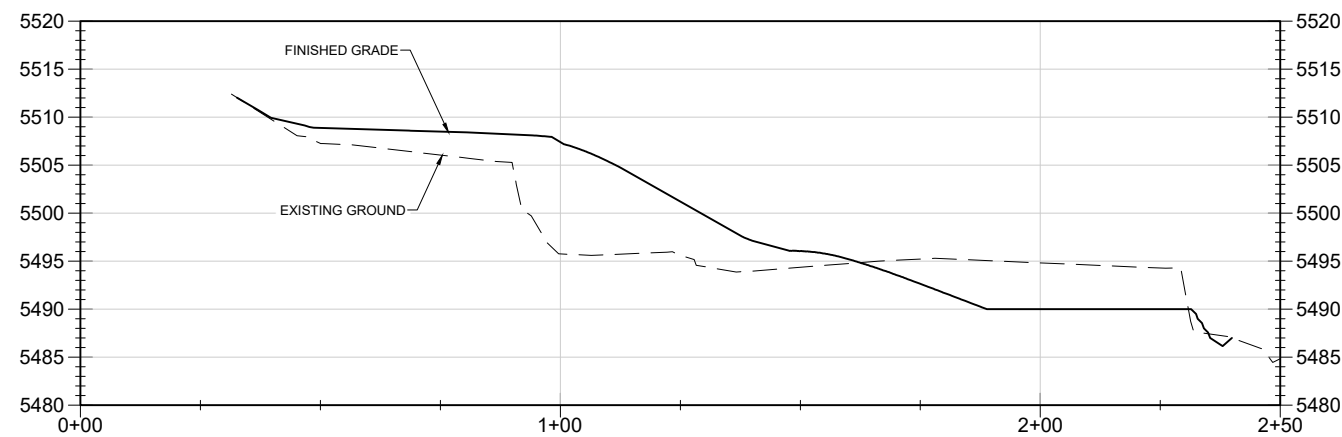
DATE	
REVISIONS	
NO.	
295 HWY 50, SUITE 1 STATELINE, NV 89449 (775) 588-9069	
<p>* CALL BEFORE YOU DIG *</p> <p>CONTACT UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600 PRIOR TO ANY CONSTRUCTION WORK</p>	
PLAN AND PROFILE SHEET MILLBERRY AND LOWER MARKLEEVILLE	ALPINE COUNTY, CALIFORNIA
MARKLEEVILLE CREEK RESTORATION	
DATE: 04/2025	
DRAWN BY: ND	
CHECKED BY: BEM	
SCALE: AS SHOWN	
STANTEC JOB NO. 185706442	
FIGURE NO.	
P-3	
SHEET 14 OF 33	



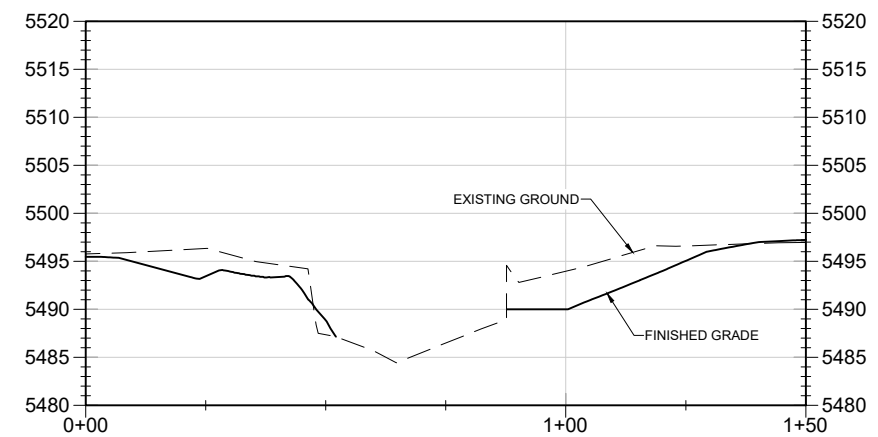
PARKING LOT X-SECTION 1
STA (PL-1): 0+00 TO STA (PL-1): 02+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'



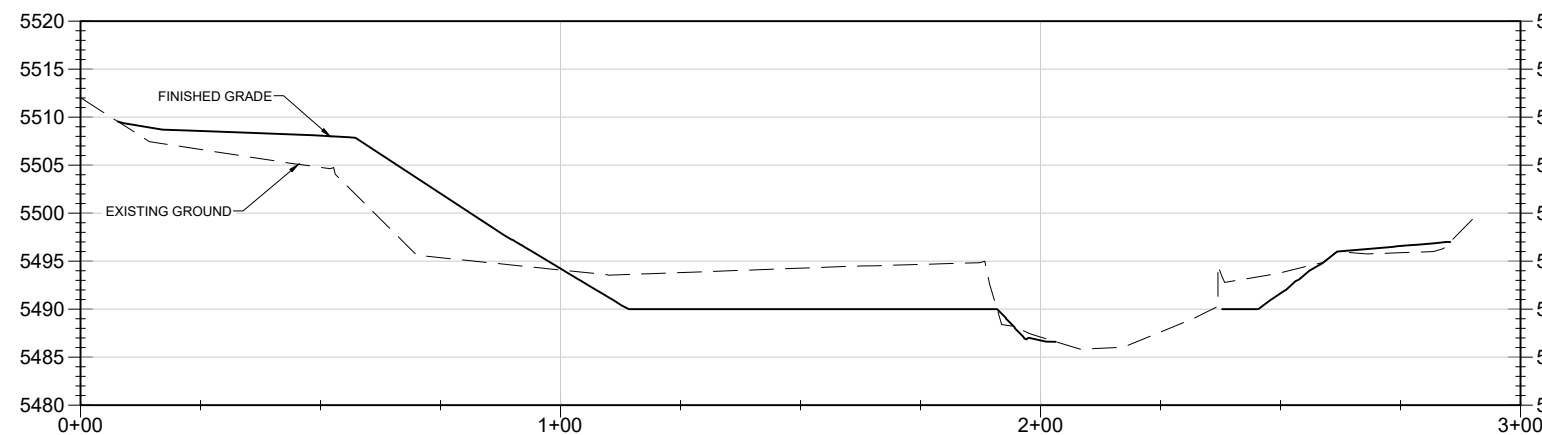
PARKING LOT X-SECTION 2
STA (PL-2): 0+00 TO STA (PL-2): 02+50
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'



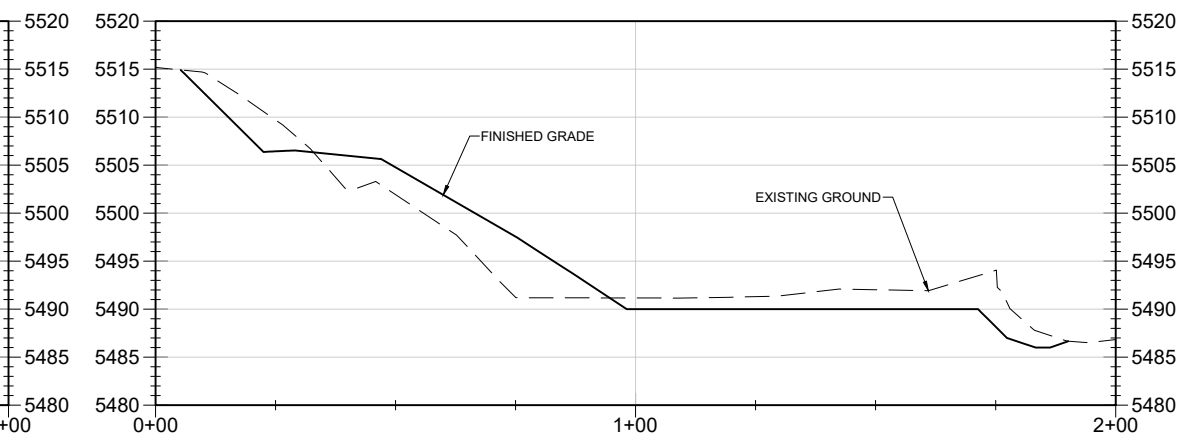
PARKING LOT X-SECTION 3
STA (PL-3): 0+00 TO STA (PL-3): 02+50
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'



MARKLEEVILLE CREEK X-SECTION 1
STA (MARK-1): 0+00 TO STA (MARK-1): 01+50
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'



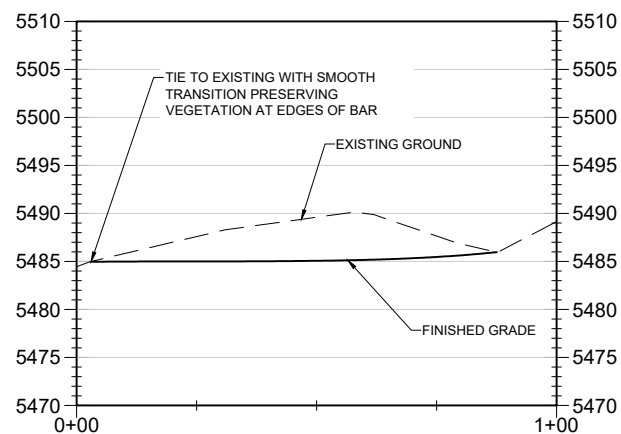
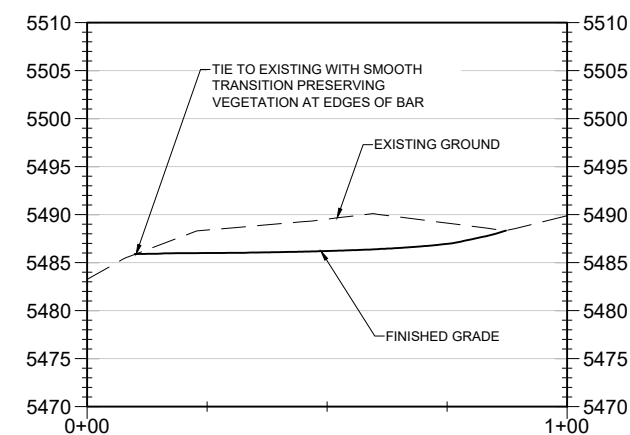
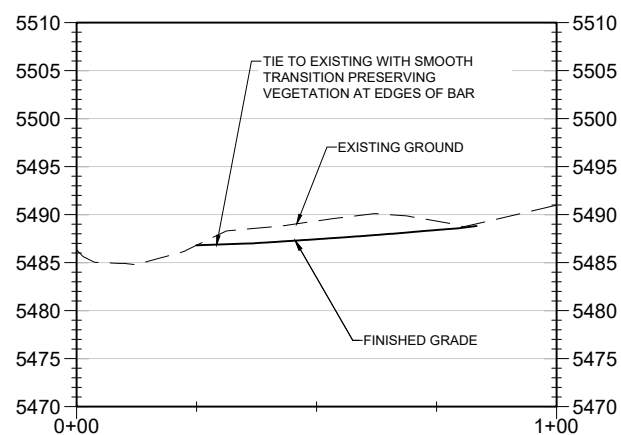
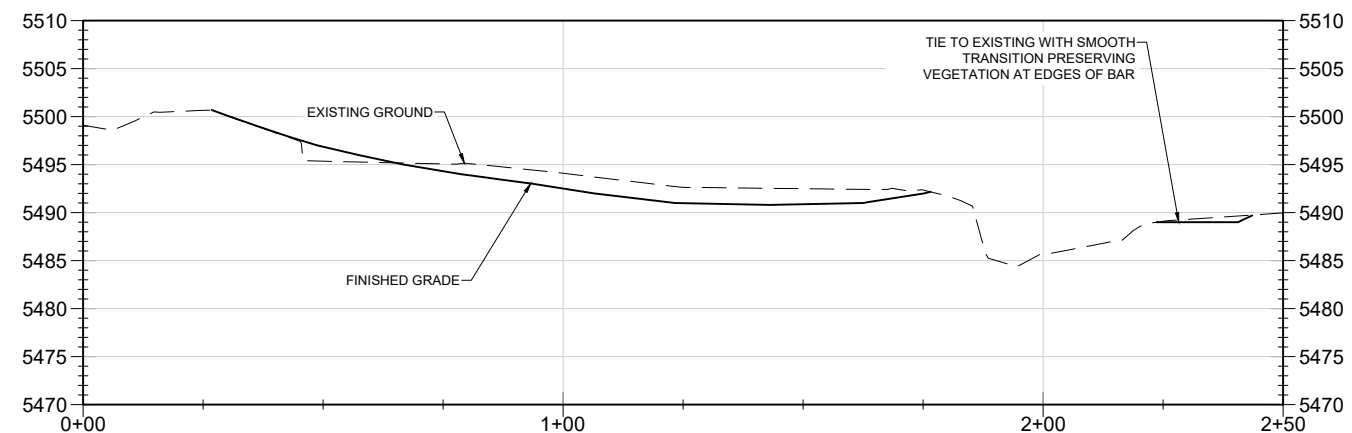
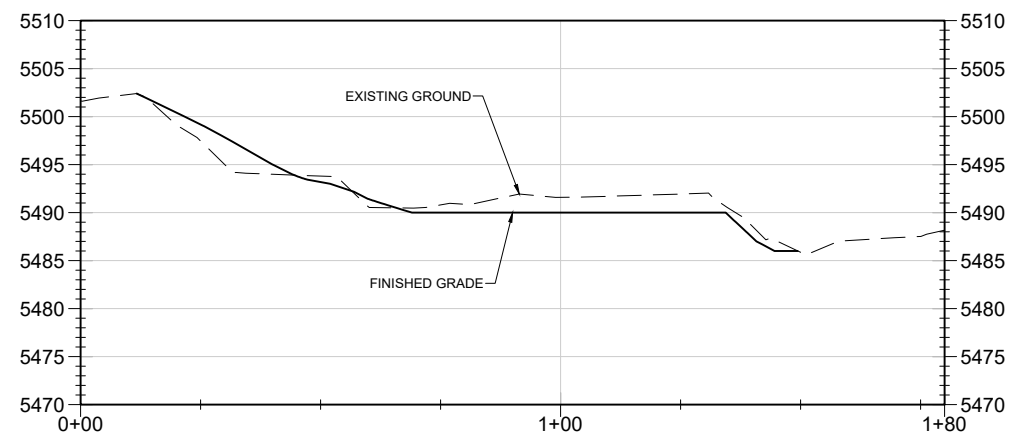
MARKLEEVILLE CREEK X-SECTION 2
STA (MARK-2): 0+00 TO STA (MARK-2): 03+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'



MARKLEEVILLE CREEK X-SECTION 3
STA (MARK-3): 0+00 TO STA (MARK-3): 02+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'



DATE										
REVISIONS										
NO.										
SEAL										
 Stantec										
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<p>* CALL BEFORE YOU DIG *</p> <p>CONTACT UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600</p> <p>PRIOR TO ANY CONSTRUCTION WORK</p>										
<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; font-size: 1.2em;">CROSS SECTION SHEET 2</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; font-size: 1.5em;">MARKLEEVILLE CREEK RESTORATION</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; font-size: 1.2em;">ALPINE COUNTY, CALIFORNIA</div> </div>										
DATE:					04/2025					
DRAWN BY:					ND					
CHECKED BY:					BEM					
SCALE:					AS SHOWN					
STANTEC JOB NO. 185706442										
FIGURE NO.										
XS-2										
SHEET 16 OF 33										

[illegible]

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YOU DIG *

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ALERT (USA)
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PRIOR TO ANY CONSTRUCTION WORK**

CROSS SECTION SHEET 3

MARKLEEVILLE CREEK RESTORATION

ALPINE COUNTY, CALIFORNIA

DATE: 04/2025

DRAWN BY: ND

CHECKED BY: BEM








SCALE: AS SHOWN








STANTEC JOB NO. 185706442

FIGURE NO.

XS-3

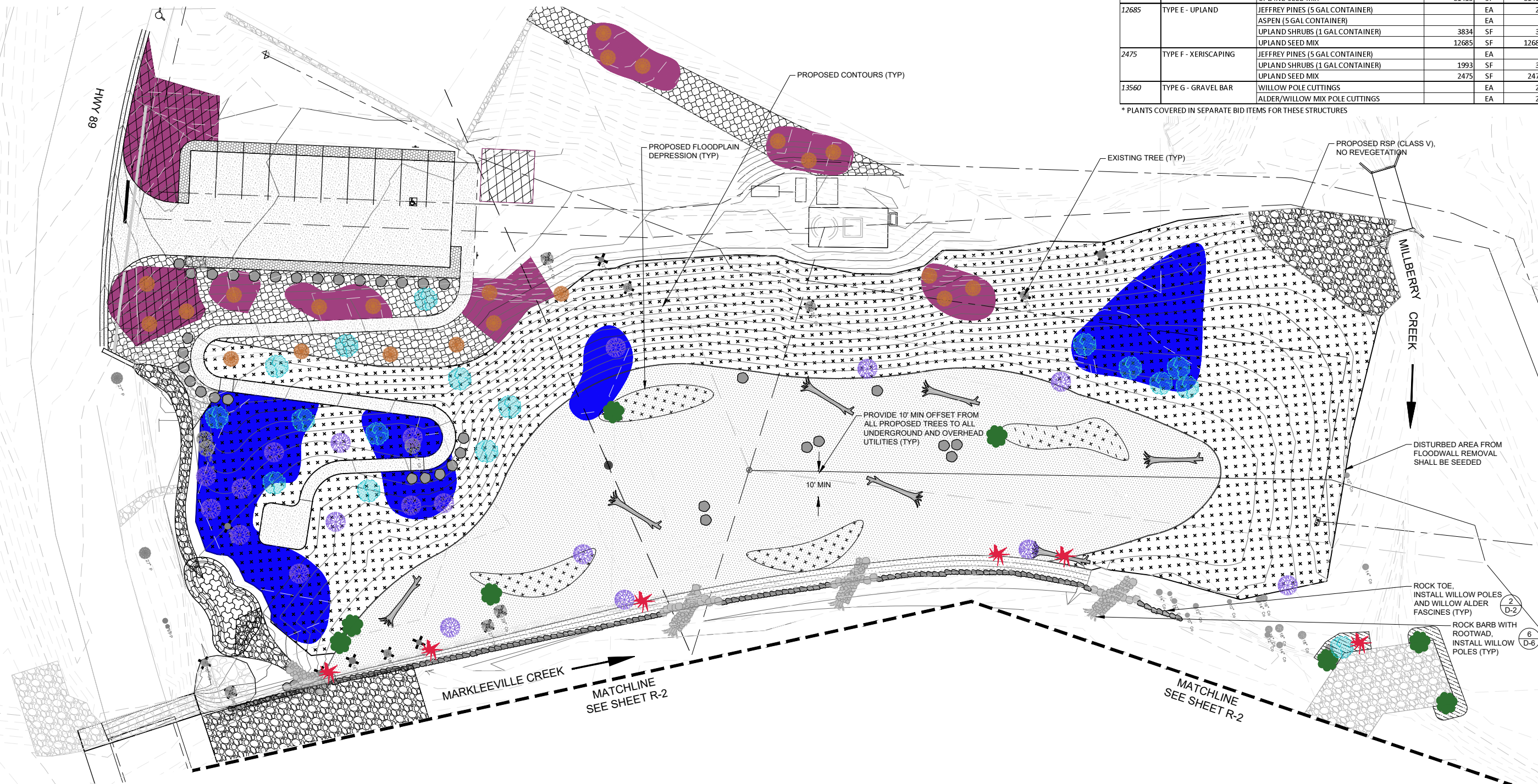
SHEET 17 OF 33

REVEGETATION LEGEND - TREATMENT TYPE	
	TYPE A - WETLAND
	TYPE B - FLOODPLAIN (WITH FLOODPLAIN SEED MIX)
	TYPE C - WOODY RIPARIAN (WITH FLOODPLAIN SEED MIX)
	TYPE D - UPLAND TRANSITION (WITH UPLAND SEED MIX)
	TYPE E - UPLAND (WITH UPLAND SEED MIX)
	TYPE F - XERISCAPING (WITH UPLAND SEED MIX)
	TYPE G - GRAVEL BAR

REVEGETATION LEGEND - SPECIES MIX	
	ALDER/WILLOW MIX (3 INDIVIDUALS PER SYMBOL)
	ASPENS (1 INDIVIDUALS PER SYMBOL)
	WILLOWS (3 INDIVIDUALS PER SYMBOL)
	COTTONWOODS (3 INDIVIDUALS PER SYMBOL)
	JEFFREY PINE (1 INDIVIDUAL PER SYMBOL)
	UPLAND SHRUB UNDERSTORY (SHRUBS INTERPLANTED BETWEEN GROUPINGS OF JEFFREY PINES)
	RIPARIAN SHRUB UNDERSTORY (SHRUBS INTERPLANTED BETWEEN COTTONWOOD AND ASPEN PLANTINGS)

TOTAL AREA	REVEGETATION TYPE	ITEM DESCRIPTION	UNIT AREA(S)	UNITS	QUANTITY
640	TYPE A - WETLAND	WETLAND PLUGS	640	EA	31
22045	TYPE B - FLOODPLAIN	ROCK TOE - WILLOW/ALDER FASCINE CUTTINGS*		EA	118
		ROCK TOE - WILLOW/ALDER CLUMPS/CUTTINGS*		EA	8
		ROCK BARBS - WILLOW/ALDER POLE CUTTINGS*		EA	2
		WILLOW (1 GAL CONTAINER)		EA	1
		ALDER/WILLOW MIX (1 GAL CONTAINER)		EA	1
		COTTONWOOD (5 GAL CONTAINER)		EA	1
		FLOODPLAIN SEED MIX	22045	SF	22045
2640	TYPE C: WOODY RIPARIAN	WILLOW (1 GAL CONTAINER)		EA	1
		ALDER/WILLOW MIX (1 GAL CONTAINER)		EA	1
		ASPEN (5 GAL CONTAINER)		EA	1
		COTTONWOOD (5 GAL CONTAINER)		EA	1
		FLOODPLAIN SEED MIX	2640	SF	2640
31415	TYPE D - UPLAND TRANSITION	COTTONWOOD (5 GAL CONTAINER)		EA	5
		ASPEN (5 GAL CONTAINER)		EA	1
		JEFFREY PINES (5 GAL CONTAINER)		EA	1
		RIPIARIAN SHRUBS (1 GAL CONTAINER)	6750	SF	6750
		UPLAND SHRUBS (1 GAL CONTAINER)	423	SF	423
		UPLAND SEED MIX	31415	SF	31415
12685	TYPE E - UPLAND	JEFFREY PINES (5 GAL CONTAINER)		EA	2
		ASPEN (5 GAL CONTAINER)		EA	1
		UPLAND SHRUBS (1 GAL CONTAINER)	3834	SF	3834
		UPLAND SEED MIX	12685	SF	12685
2475	TYPE F - XERISCAPING	JEFFREY PINES (5 GAL CONTAINER)		EA	1
		UPLAND SHRUBS (1 GAL CONTAINER)	1993	SF	1993
		UPLAND SEED MIX	2475	SF	2475
13560	TYPE G - GRAVEL BAR	WILLOW POLE CUTTINGS		EA	2
		ALDER/WILLOW MIX POLE CUTTINGS		EA	1

* PLANTS COVERED IN SEPARATE BID ITEMS FOR THESE STRUCTURES

[illegible]

295 HWY 50, SUITE 1
STATELINE, NV 89449
(775) 588-9069

*** CALL BEFORE**
YOU DIG *
CONTACT UNDERGROUND SERVICE
ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK

REVEGETATION SHEET

MARKLEEVILLE CREEK RESTORATION

ALPINE COUNTY, CALIFORNIA








DATE:	04/2025
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CHECKED BY:	BEM
SCALE:	AS SHOWN
STANTEC JOB NO.	185706442
FIGURE NO.	








R-1

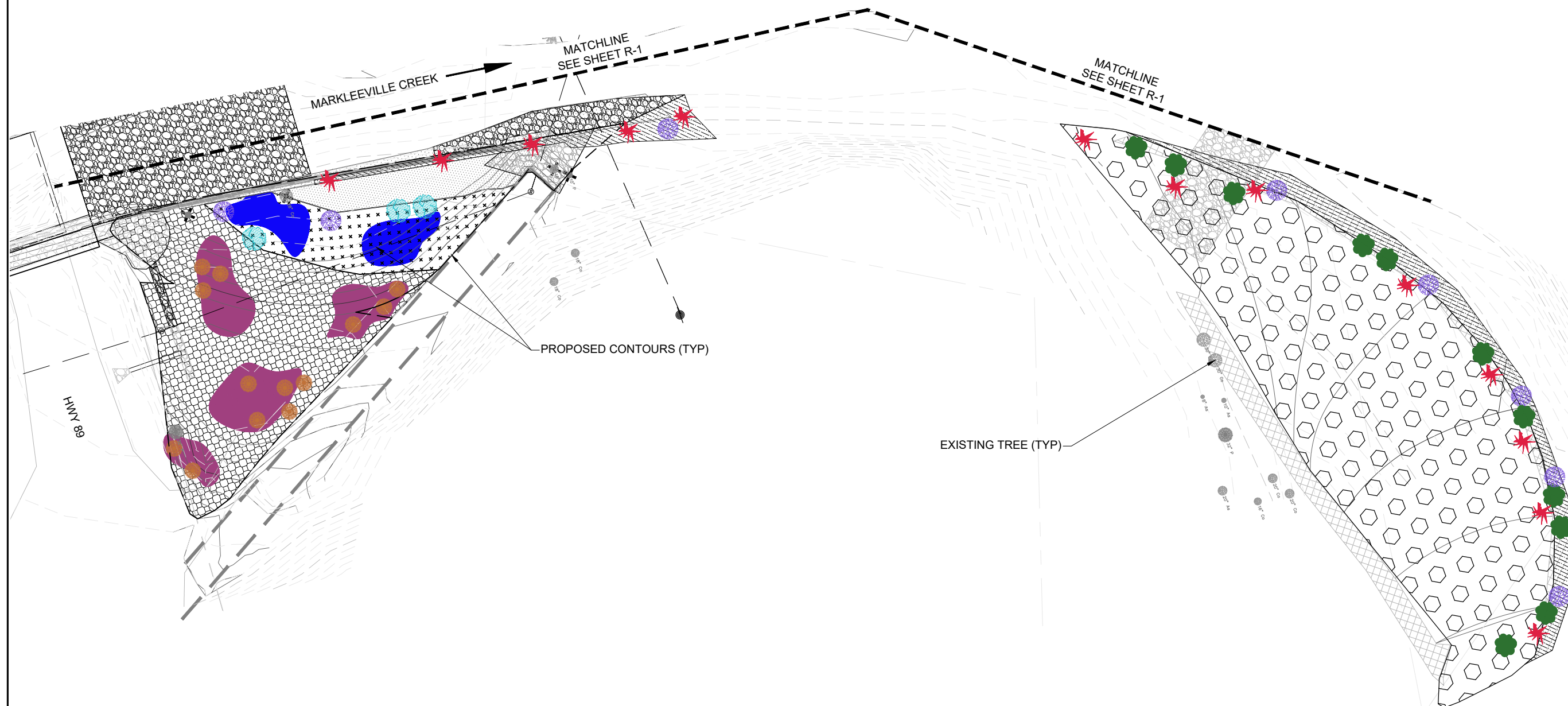
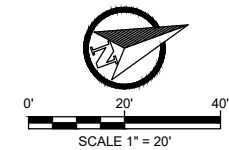
SHEET 18 OF 33

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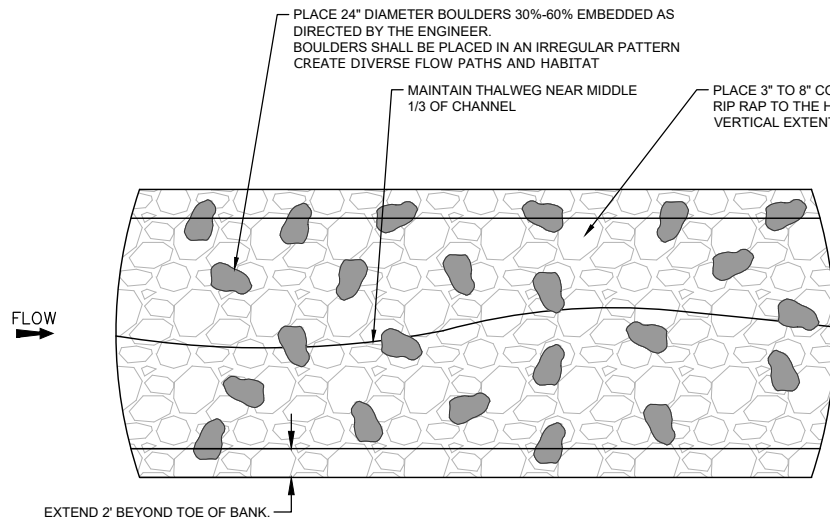
1. PLANTING SPACING VARIES BASED ON TREATMENT TYPE. SEE SPECIFICATIONS.
2. ALL TREE BLOCKS SHOWN ARE SCHEMATIC. FIELD FIT AS DIRECTED BY ALPINE COUNTY.

REVEGETATION LEGEND - TREATMENT TYPE	
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	COTTONWOODS (3 INDIVIDUALS PER SYMBOL)
	JEFFREY PINE (1 INDIVIDUAL PER SYMBOL)
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[illegible]

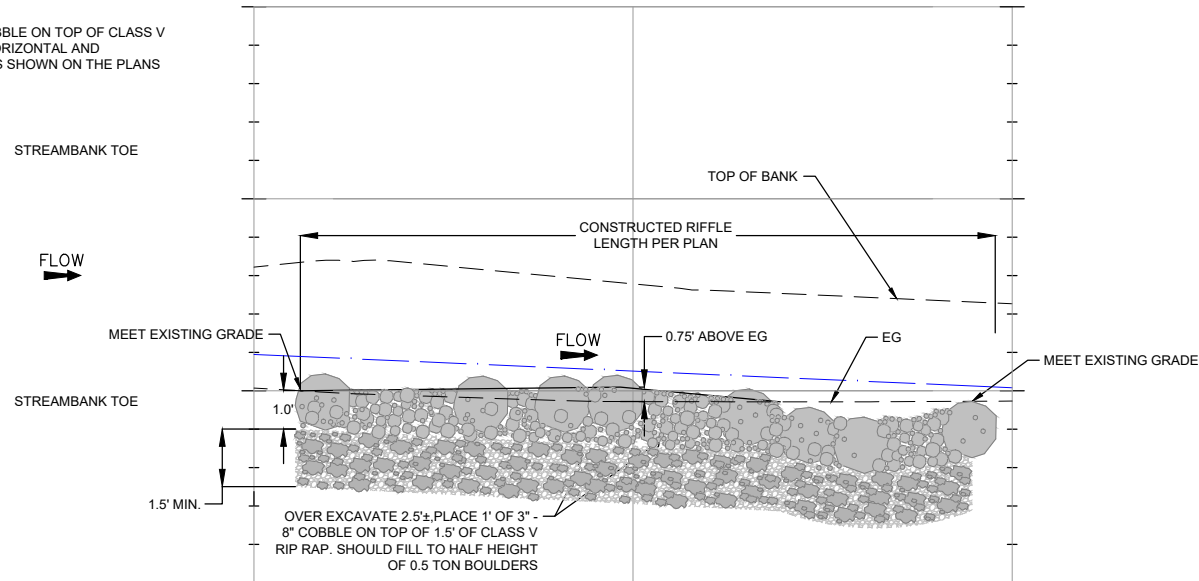
[illegible]



NOTE:
1. CONSTRUCT ROCK RIFFLE TO THE EXTENTS SHOWN ON THE PLANS

CONSTRUCTED RIFFLE PLAN

NTS



CONSTRUCTED RIFFLE PROFILE

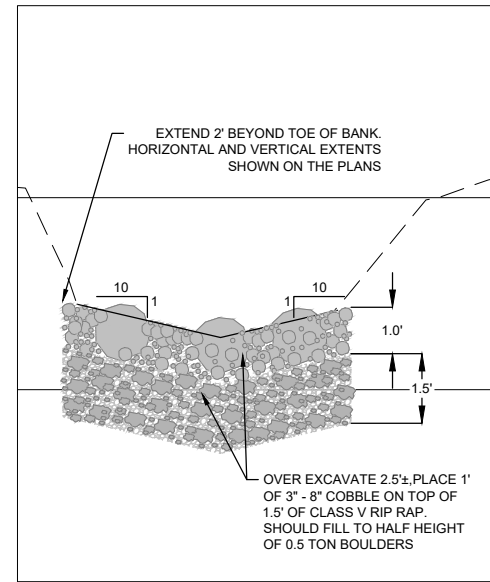
NTS

CONSTRUCTED RIFFLE

NTS

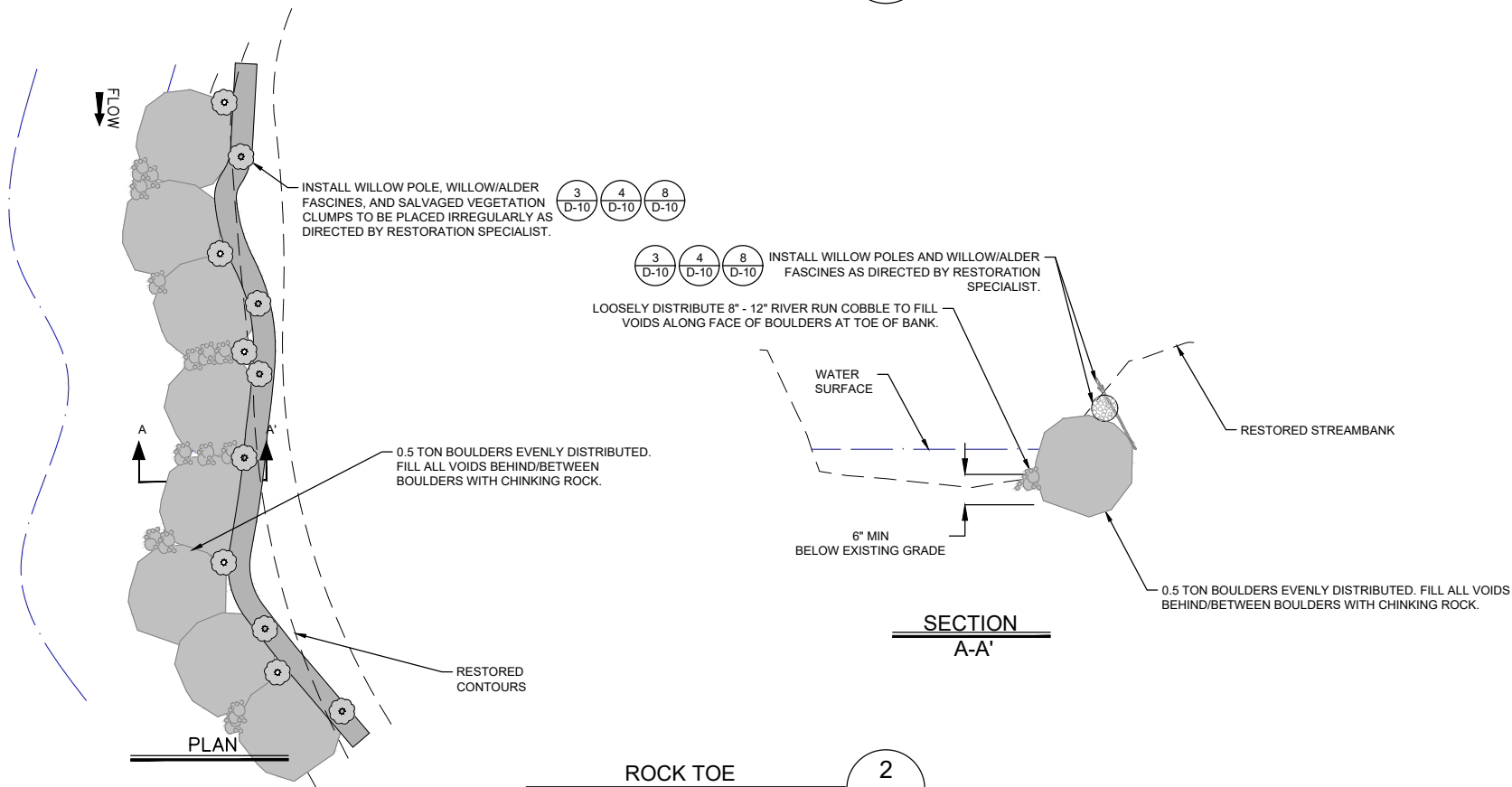
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D-2



CONSTRUCTED RIFFLE SECTION

NTS



ROCK TOE

NTS

2

D-2

DETAIL SHEET 2

MARKLEEVILLE CREEK RESTORATION

ALPINE COUNTY, CALIFORNIA

DATE: 04/2025
DRAWN BY: ND
CHECKED BY: BEM
SCALE: AS SHOWN
STANTEC JOB NO. 185706442
FIGURE NO.

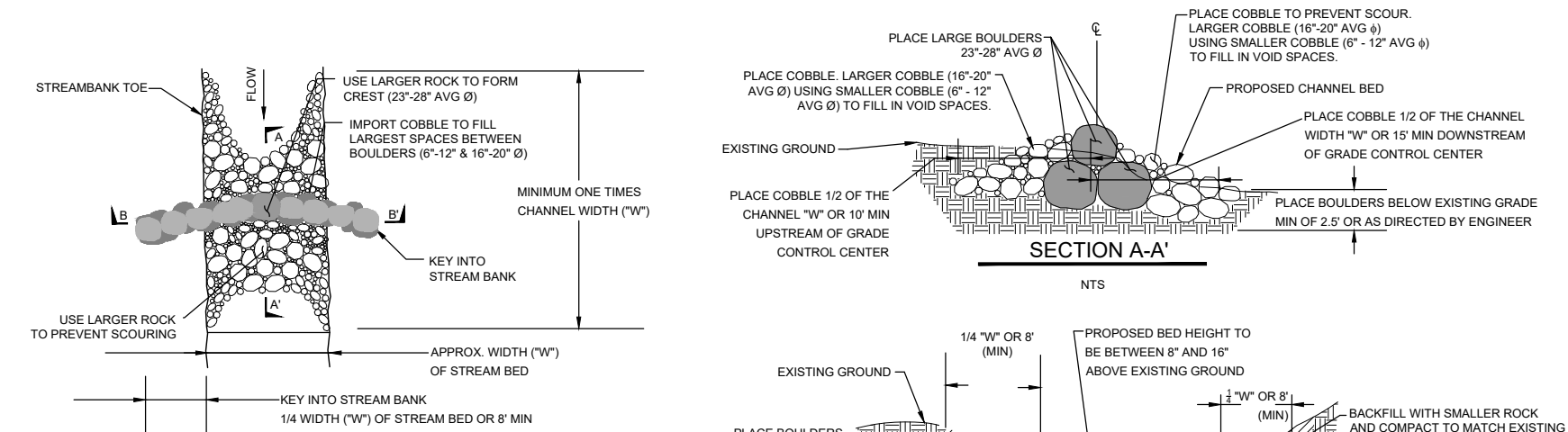
D-2

SHEET 21 OF 33

* CALL BEFORE YOU DIG *
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK



295 HWY 50, SUITE 1
STATELINE, NV 89449
(775) 588-9069



- NOTES:
1. LARGE BOULDERS (23'-28" AVG Ø) PLACED TO FROM CREST IN GRADE CONTROL STRUCTURE SHALL BE PLACED (VERTICAL/ELEVATION) STARTING AT ϵ OF CHANNEL 28'-32" BELOW EXISTING GROUND.
 2. THE ELEVATION OF THE LARGE BOULDERS (23'-28" AVG Ø) SHALL INCREASE AT 2% \pm GOING AWAY FROM THE CHANNEL ϵ AND INTO THE EMBANKMENT. THE BOTTOM OF THE ROCK IN THE CHANNEL ϵ SHALL BE APPROXIMATELY 0.25' LOWER THAN THE LAST ROCK PLACED (FURTHEST INTO EMBANKMENT).

PLAN VIEW

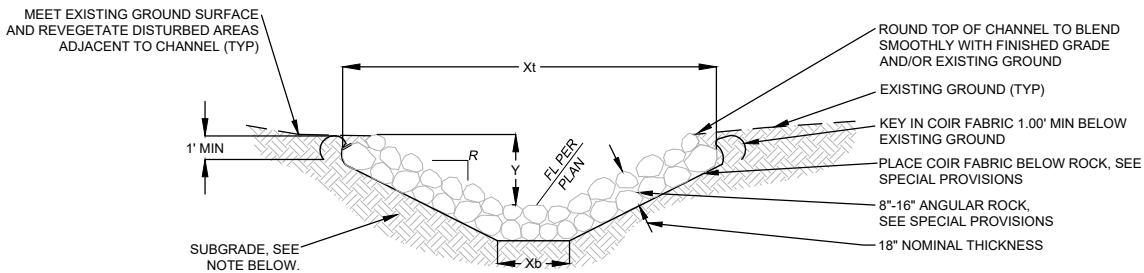
NTS

BOULDER GRADE CONTROL

NTS

1

D-3



STATION OR LOCATION	WIDTH, X1* (EXCAVATION)	WIDTH, Xb (EXCAVATION)	DEPTH, Y*	SLOPE RATIO, R
STA (SW) 55+39 \pm	8.0' \pm	0	1.93' \pm	2:1 \pm
STA (SW) 66.14 \pm	6.5' \pm	0	1.57' \pm	2:1 \pm
STA (SW) 82.04 \pm	4.5' \pm	0	1.07' \pm	2:1 \pm
STA (SW) 1+02.07 \pm	3.75' \pm	0	1.07' \pm	2:1 \pm
STA (SW) 1+26.00 \pm	5.0' \pm	0	1.22' \pm	2:1 \pm
CHANNEL - EAST BANK OF MARKLEEVILLE CREEK	3.0'	0	0.75' \pm	2:1 \pm

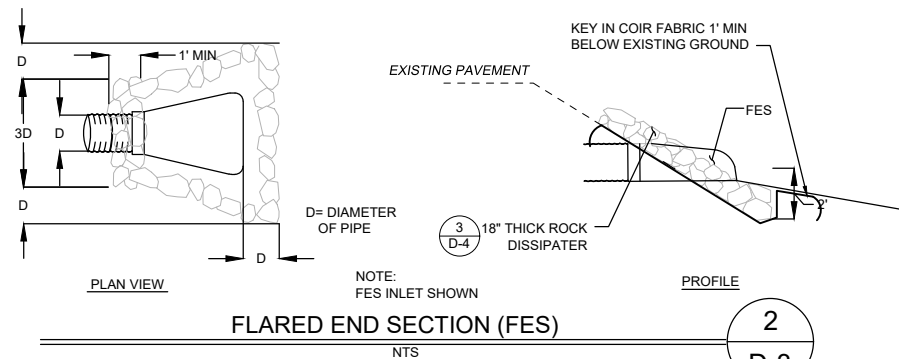
- NOTES:
1. "Y*" DEPICTS MIN REQ'D DEPTH OF CHANNEL. "X1" DEPICTS MIN REQ'D WIDTH OF CHANNEL AND R DEPICTS SIDE SLOPE. HEIGHT/RATIO MAY VARY DEPENDING ON EXISTING TERRAIN. TO MAINTAIN A 2' SHOULDER AT ROADWAYS. SEE PLAN VIEWS AND CROSS-SECTIONS FOR GRADING LIMITS. ACTUAL DIMENSIONS ARE AS SHOWN ON PLAN AND CROSS-SECTION VIEWS.
 2. SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.
 3. THE DIMENSIONS DEPICTED IN THIS TABLE ARE MINIMUM DIMENSIONS. ACTUAL DIMENSIONS ARE AS SHOWN ON THE PLANS AND CROSS-SECTIONS.

ROCK LINED CHANNEL (RLC)

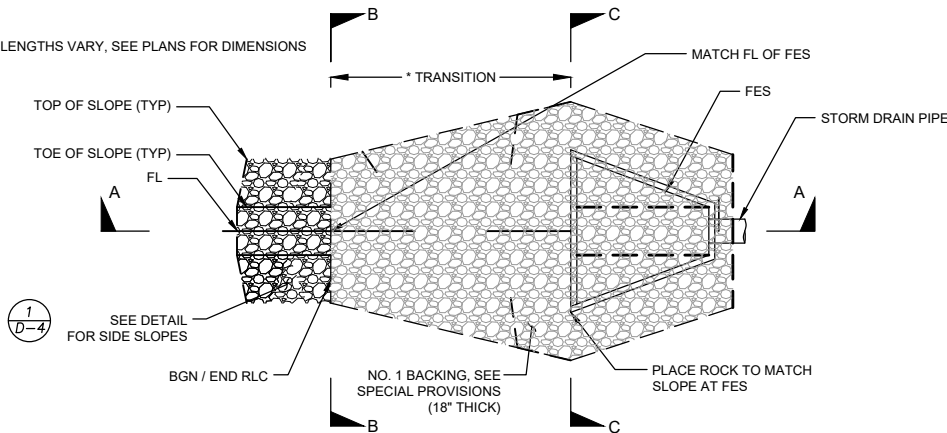
NTS

3

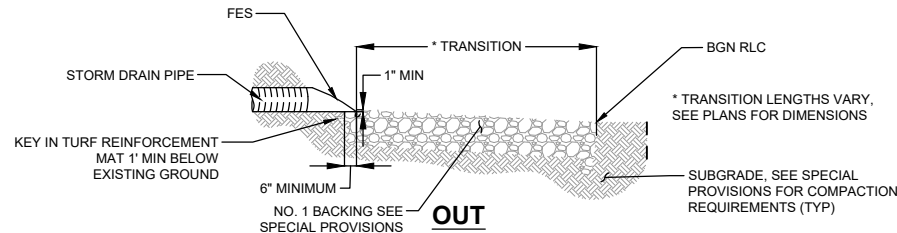
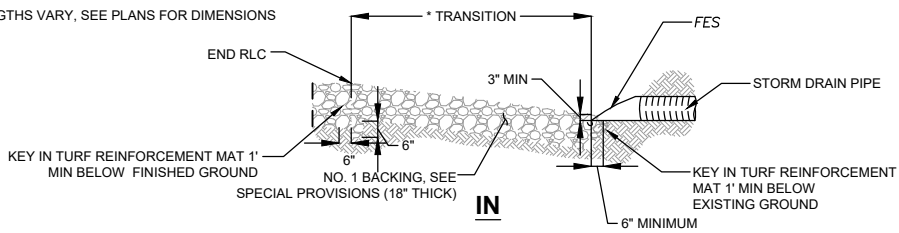
D-3



* TRANSITION LENGTHS VARY, SEE PLANS FOR DIMENSIONS



* TRANSITION LENGTHS VARY, SEE PLANS FOR DIMENSIONS



FES INTO ROCK LINED CHANNEL TRANSITION

NTS

4

D-3

DETAIL SHEET 3

MARKLEEVILLE CREEK RESTORATION

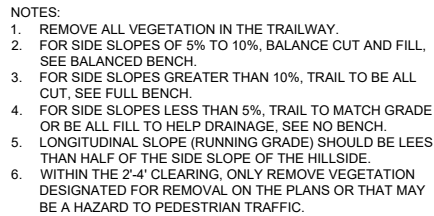
ALPINE COUNTY, CALIFORNIA

*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK

DATE: 04/2025
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CHECKED BY: BEM
SCALE: AS SHOWN
STANTEC JOB NO. 185706442
FIGURE NO.

D-3

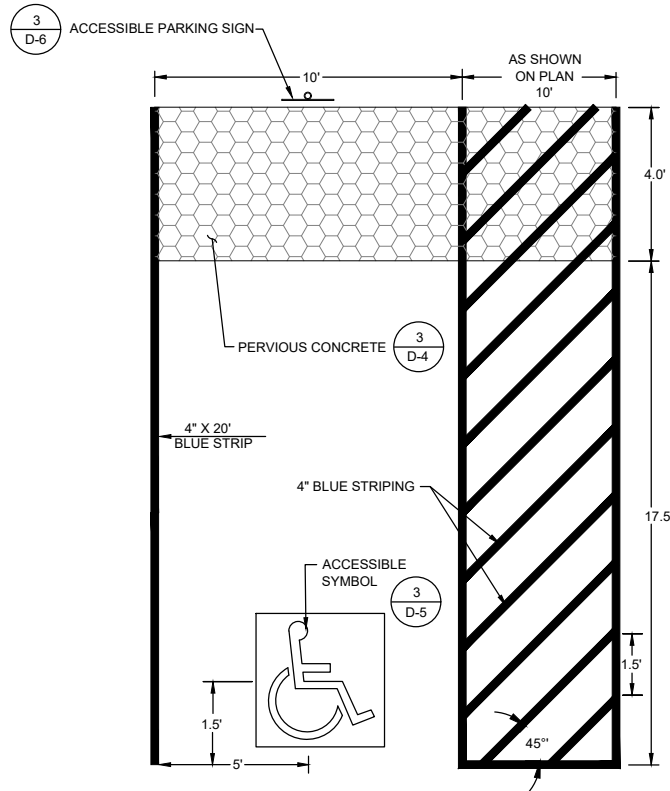
SHEET 22 OF 33



*** CALL BEFORE**
YOU DIG *
CONTACT UNDERGROUND SERVICE
ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK

ALPINE COUNTY, CALIFORNIA

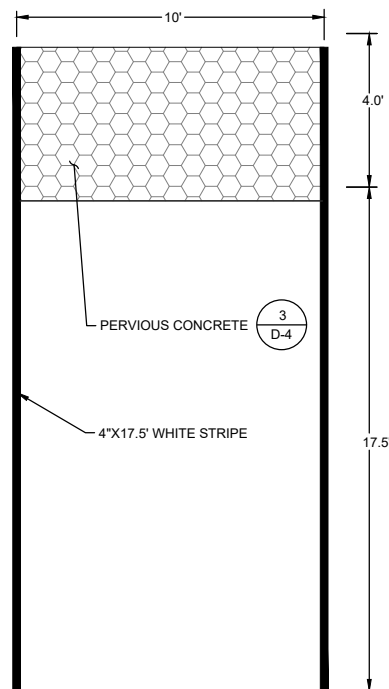
D-4



ACCESSIBLE PARKING STALL

NTS

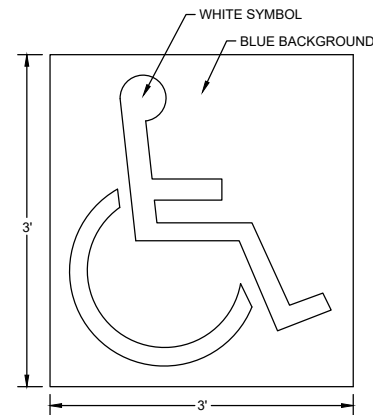
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D-5



TYPICAL PARKING STALL

NTS

2
D-5

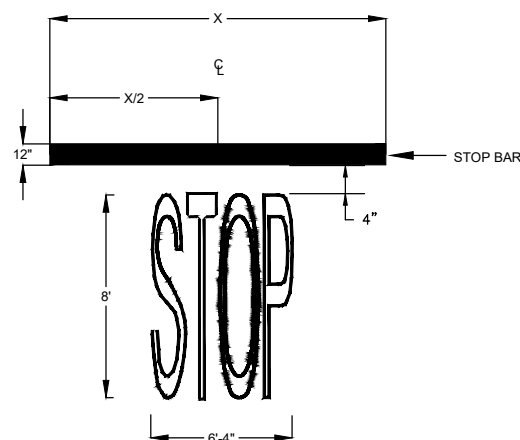


ACCESSIBLE SYMBOL

NTS

3
D-5

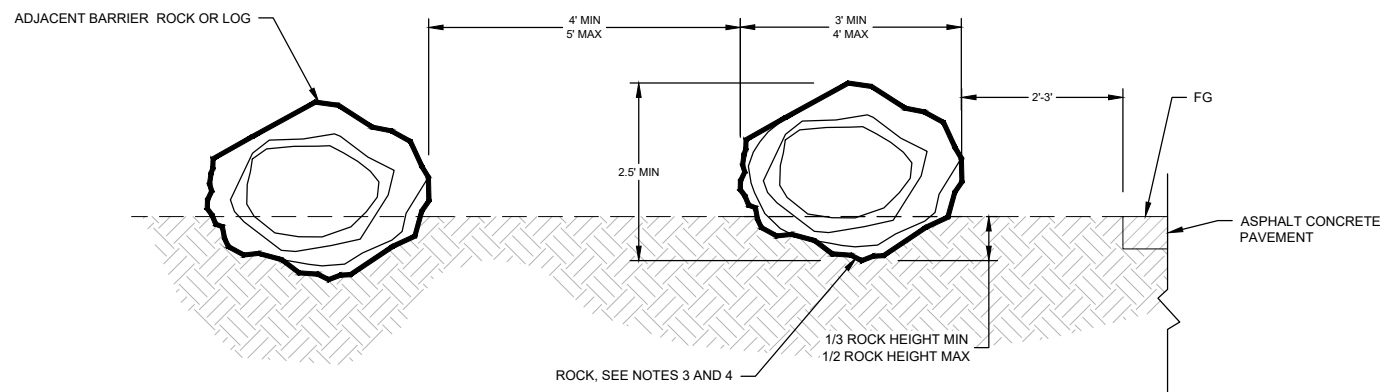
NOTE:
1) ALL MARKINGS IN WHITE TRAFFIC PAINT
2) "STOP" TRAFFIC MARKING SHALL BE CENTERED ON THE STOP BAR



STOP BAR

NTS

4
D-5



NOTES:

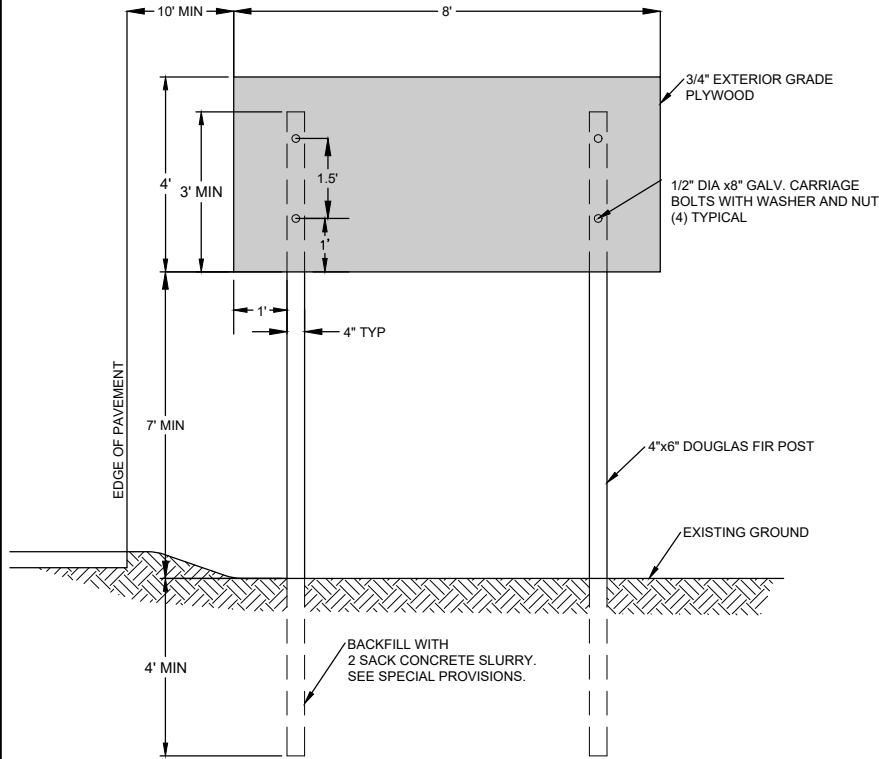
1. MAX DISTANCE BETWEEN ROCKS OR LOG BARRIER SHALL BE 5'.
2. APPROXIMATE BARRIER LOCATIONS ARE SHOWN ON THE PLANS. EXACT LOCATION SHALL BE AS DIRECTED/ACCEPTED IN THE FIELD BY THE ALPINE COUNTY REPRESENTATIVE.
3. SEE SPECIAL PROVISIONS FOR ROCK REQUIREMENTS.
4. ALL ROCKS SHALL HAVE UNIFORM DIMENSIONS W/ DIAMETERS VARYING 5% TO 15% IN ANY DIRECTION/DIA MEASUREMENT.
5. DISTURBED EARTH BECAUSE OF INSTALLATION OF ROCK BARRIER SHALL BE BLENDED INTO THE SURROUNDING GROUND.
6. WHEN LOCATION STAKES ARE USED, THEY DESIGNATE THE CENTER OF THE ROCK BARRIER.
7. UNLESS RELOCATED OR SHOWN OTHERWISE, BARRIER ROCKS ARE TO BE PURCHASED COMMERCIALY.

BARRIER ROCK

NTS

5
D-5

DATE	
REVISIONS	
NO.	
SEAL	
295 HWY 50, SUITE 1 STATELINE, NV 89449 (775) 588-9069	
* CALL BEFORE YOU DIG * CONTACT UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600 PRIOR TO ANY CONSTRUCTION WORK	
DETAIL SHEET 5	MARKLEEVILLE CREEK RESTORATION
ALPINE COUNTY, CALIFORNIA	
DATE:	04/2025
DRAWN BY:	ND
CHECKED BY:	BEM
SCALE:	AS SHOWN
STANTEC JOB NO.	185706442
FIGURE NO.	
D-5	
SHEET 24 OF 33	

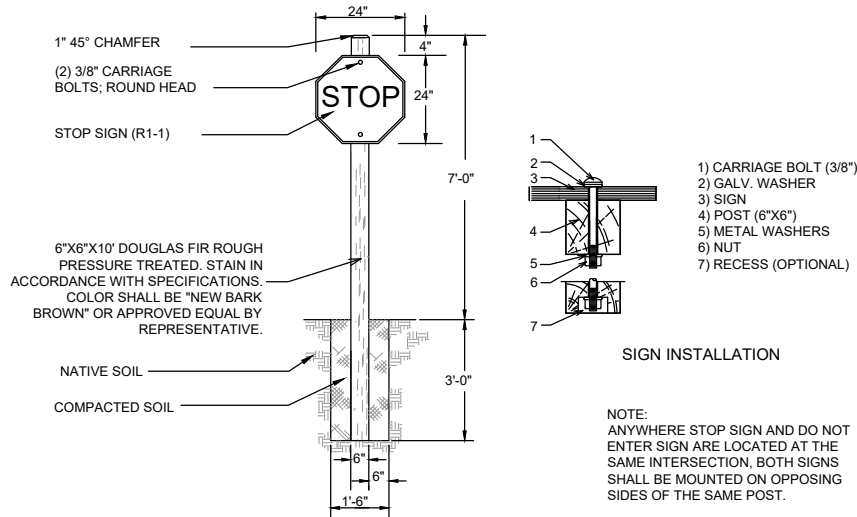


SIGN INSTALLATION DETAIL

NTS

1

D-6

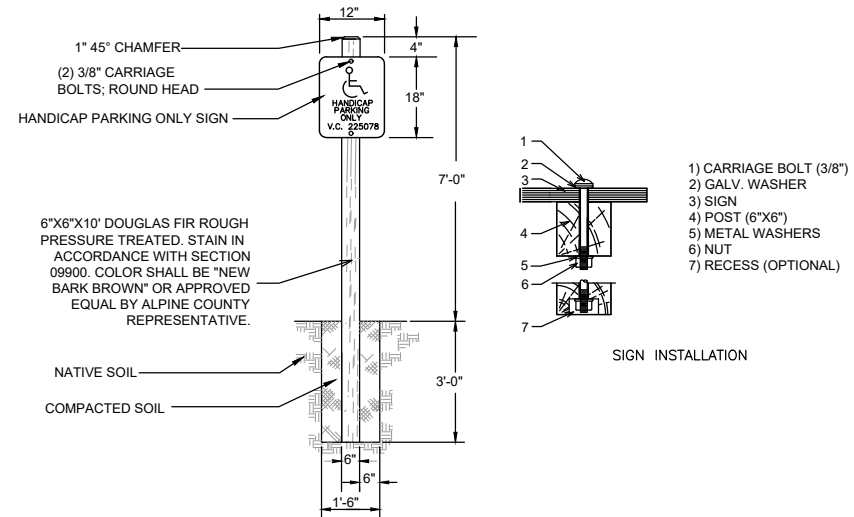


STOP SIGN

NTS

2

D-6

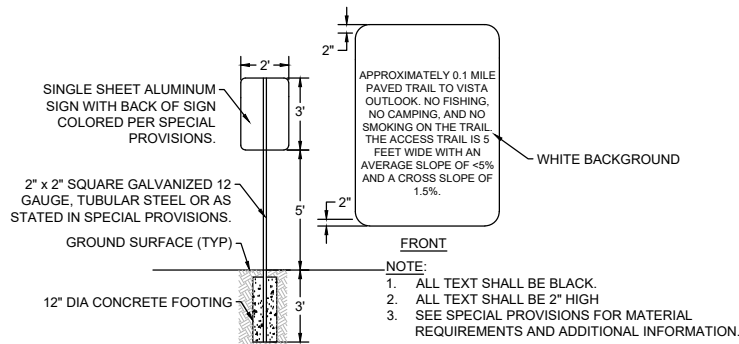


ACCESSIBLE PARKING SIGN

NTS

3

D-6

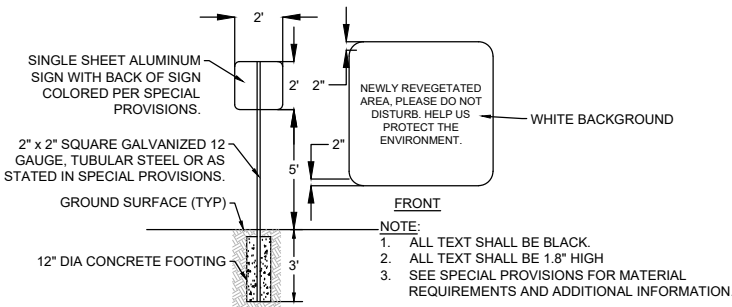


ADA ACCESS TRAIL SIGN

NTS

4

D-6

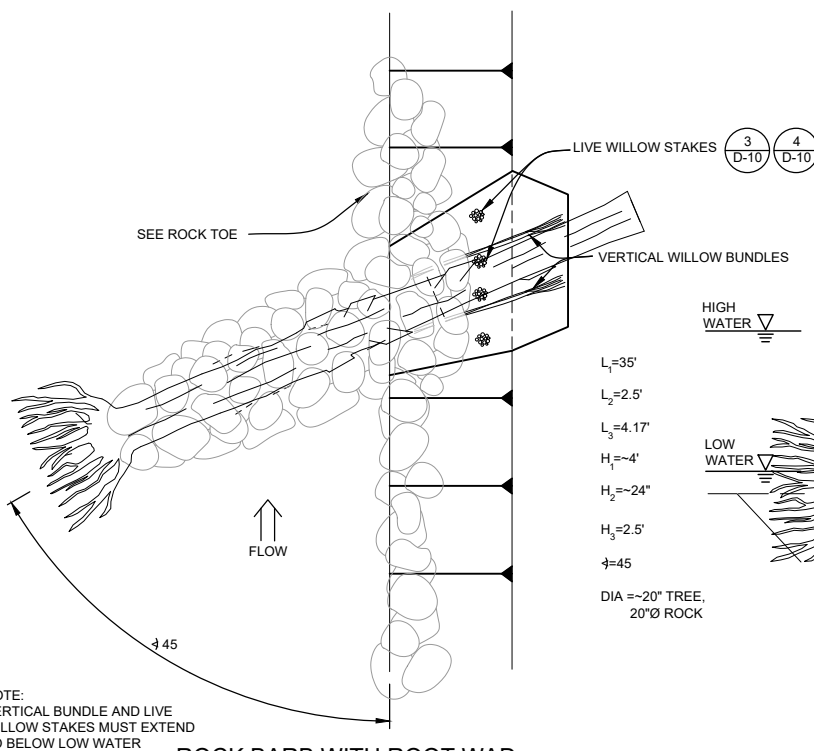


REVEGETATED AREA SIGN

NTS

5

D-6



ROCK BARB WITH ROOT WAD
(PLAN)

NTS

3
D-10

4
D-10

3
D-10

4
D-10

$L_1=35'$

$L_2=2.5'$

$L_3=4.17'$

$H_1=4'$

$H_2=24'$

$H_3=2.5'$

$\phi=45$

DIA $\approx 20"$ TREE,

20"Ø ROCK

NOTE:
VERTICAL BUNDLE AND LIVE
WILLOW STAKES MUST EXTEND
TO BELOW LOW WATER

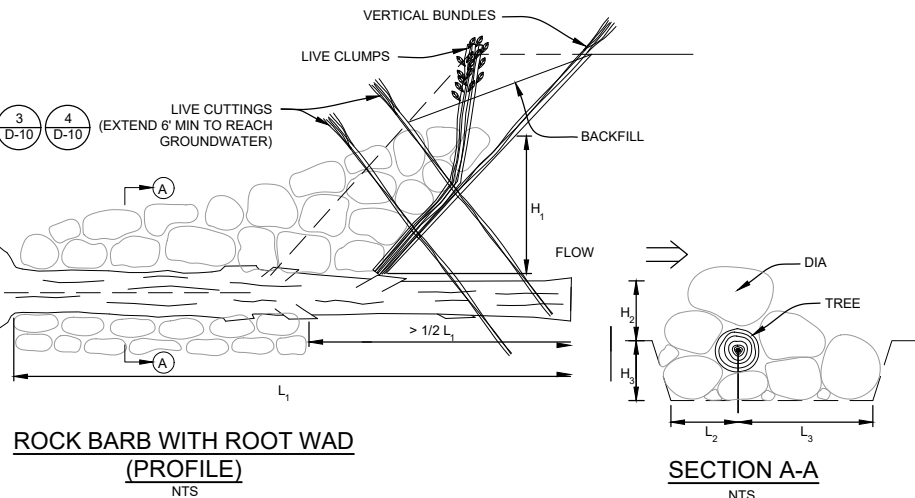
NOTE:
USE 8"-12" RIVER RUN COBBLE TO FORM ROCK BARB.
DIMENSIONS AND ANGLES MAY BE FIELD FIT BY
ENGINEER.

ROCK BARB WITH ROOT WAD

NTS

6

D-6



ROCK BARB WITH ROOT WAD
(PROFILE)

NTS

SECTION A-A

NTS

DETAIL SHEET 6

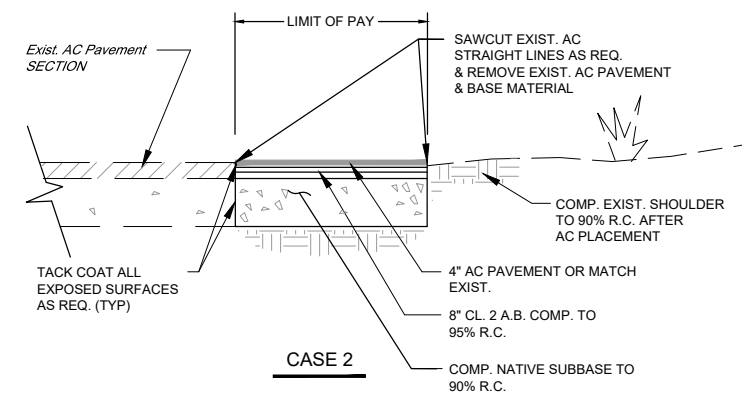
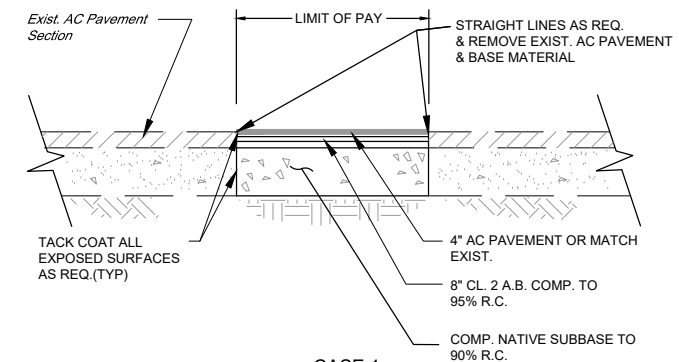
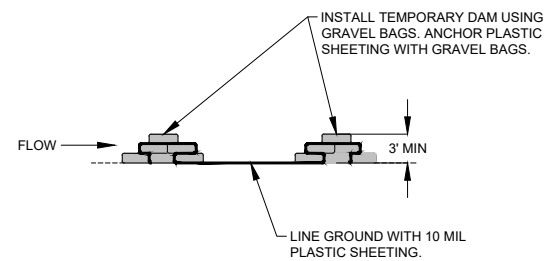
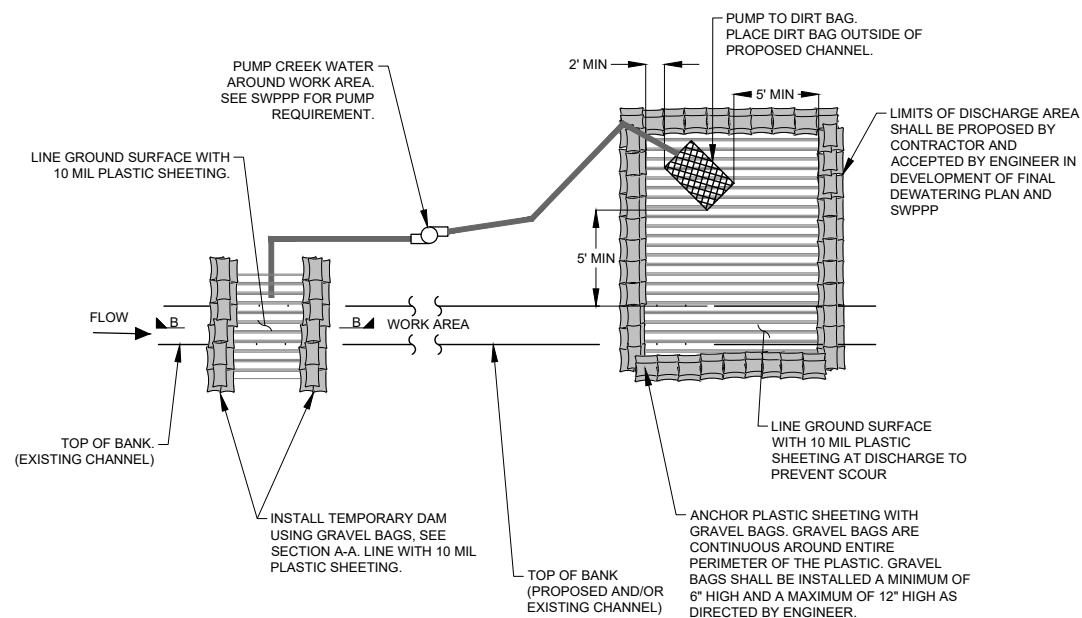
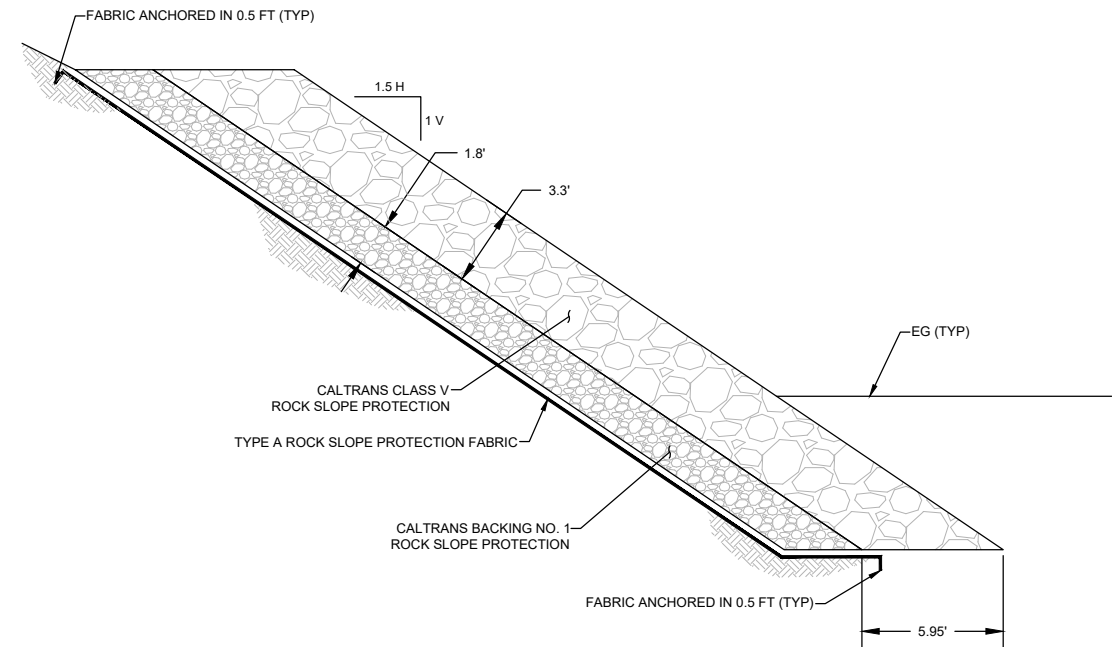
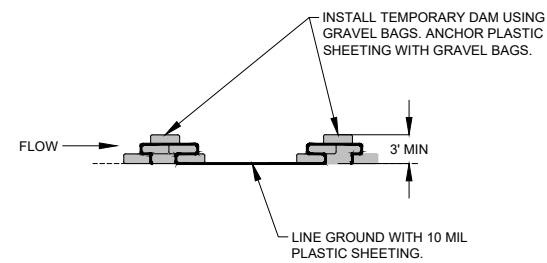
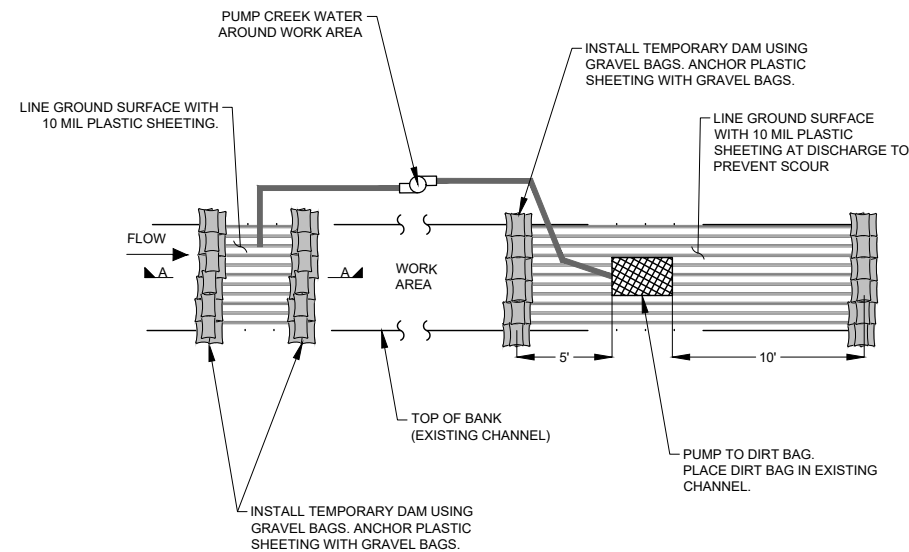
MARKLEEVILLE CREEK RESTORATION

ALPINE COUNTY, CALIFORNIA

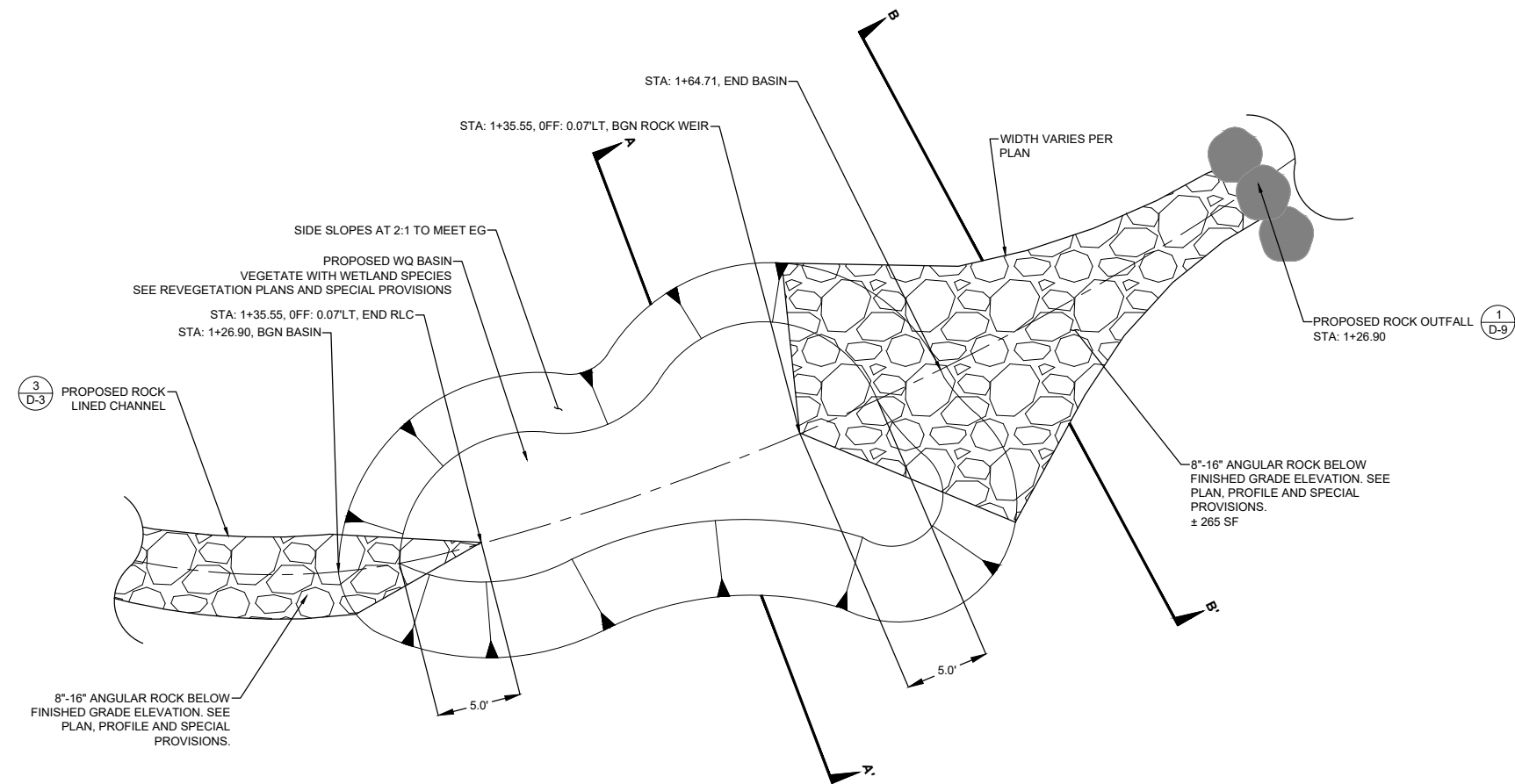
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SCALE: AS SHOWN
STANTEC JOB NO. 185706442
FIGURE NO.

D-6

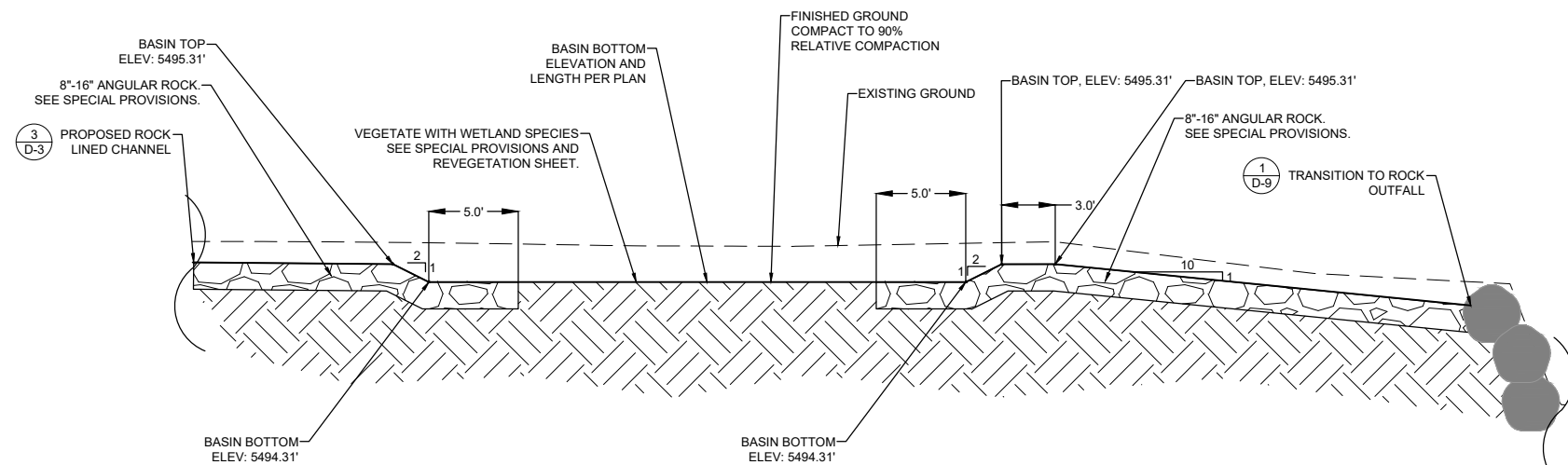
SHEET 25 OF 33



DATE		REVISIONS		NO.	

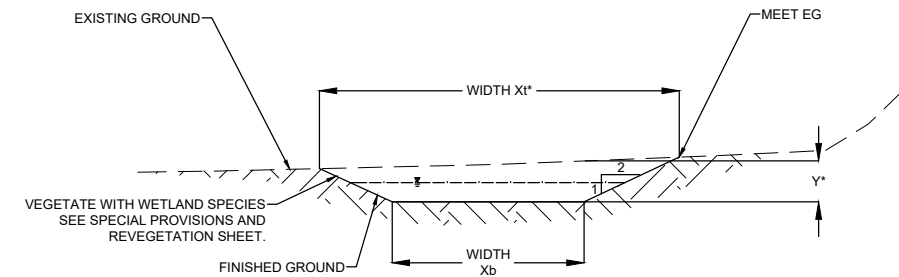


WQ BASIN AND ROCK WEIR PLAN



WQ BASIN AND ROCK WEIR PROFILE

WQ BASIN AND ROCK WEIR



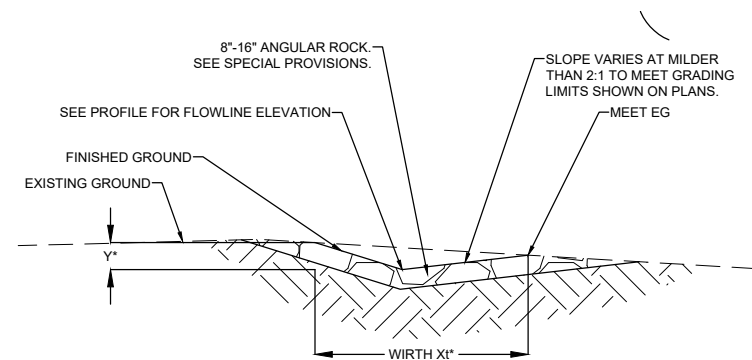
SECTION A-A'

NTS

STATION* *	WIDTH, X1* (EXCAVATION)	WIDTH, Xb (EXCAVATION)	DEPTH, Y*	SLOPE RATIO, R
STA (DRAINAGE) 1+35.55 ±	16.55' ±	7.37' ±	2.20' ±	2:1 ±
STA (DRAINAGE) 1+44.48 ±	14.71' ±	6.71' ±	2.02' ±	2:1 ±
STA (DRAINAGE) 1+55.55 ±	23.54' ±	13.47' ±	2.08' ±	2:1 ±

NOTES:

1. "Y*" DEPICTS MIN REQ'D DEPTH OF CHANNEL. "X1*" DEPICTS MIN REQ'D WIDTH OF CHANNEL AND R DEPICTS SIDE SLOPE. HEIGHT/RATIO MAY VARY DEPENDING ON EXISTING TERRAIN. TO MAINTAIN A 2' SHOULDER AT ROADWAYS. SEE PLAN VIEWS AND CROSS-SECTIONS FOR GRADING LIMITS. ACTUAL DIMENSIONS ARE AS SHOWN ON PLAN AND CROSS-SECTION VIEWS.
2. SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.
3. THE DIMENSIONS DEPICTED IN THIS TABLE ARE MINIMUM DIMENSIONS. ACTUAL DIMENSIONS ARE AS SHOWN ON THE PLANS AND CROSS-SECTIONS.



SECTION B-B'

NTS

STATION* *	WIDTH, X1* (EXCAVATION)	WIDTH, Xb (EXCAVATION)	DEPTH, Y*	SLOPE RATIO, R
STA (DRAINAGE) 1+63.83 ±	20.65' ±	0	1.22' ±	2:1 ±
STA (DRAINAGE) 1+67.38 ±	13.70' ±	0	1.20' ±	2:1 ±
STA (DRAINAGE) 1+74.08 ±	7.54' ±	0	1.05' ±	2:1 ±
STA (DRAINAGE) 1+81.90 ±	4.23' ±	0	1.28' ±	2:1 ±

NOTES:

1. "Y*" DEPICTS MIN REQ'D DEPTH OF CHANNEL. "X1*" DEPICTS MIN REQ'D WIDTH OF CHANNEL AND R DEPICTS SIDE SLOPE. HEIGHT/RATIO MAY VARY DEPENDING ON EXISTING TERRAIN. TO MAINTAIN A 2' SHOULDER AT ROADWAYS. SEE PLAN VIEWS AND CROSS-SECTIONS FOR GRADING LIMITS. ACTUAL DIMENSIONS ARE AS SHOWN ON PLAN AND CROSS-SECTION VIEWS.
2. SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.
3. THE DIMENSIONS DEPICTED IN THIS TABLE ARE MINIMUM DIMENSIONS. ACTUAL DIMENSIONS ARE AS SHOWN ON THE PLANS AND CROSS-SECTIONS.

DETAIL SHEET 8

MARKLEEVILLE CREEK RESTORATION

ALPINE COUNTY, CALIFORNIA

DATE: 04/2025

DRAWN BY: ND

CHECKED BY: BEM

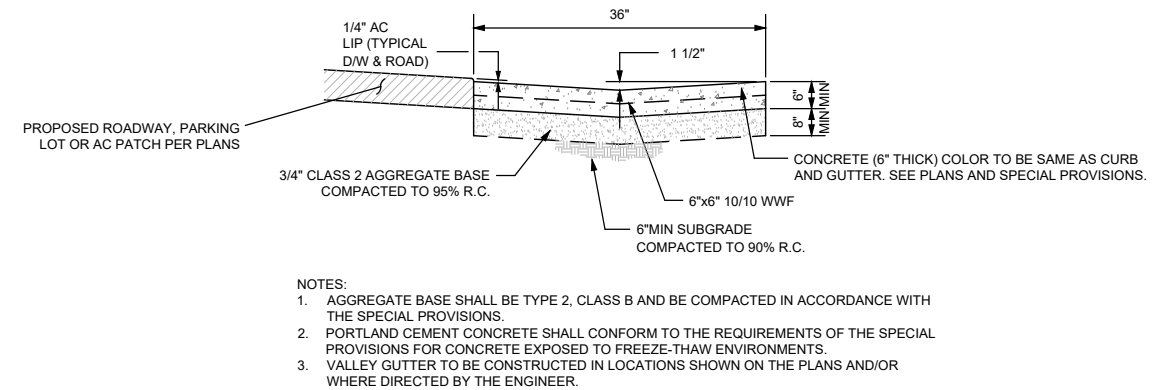
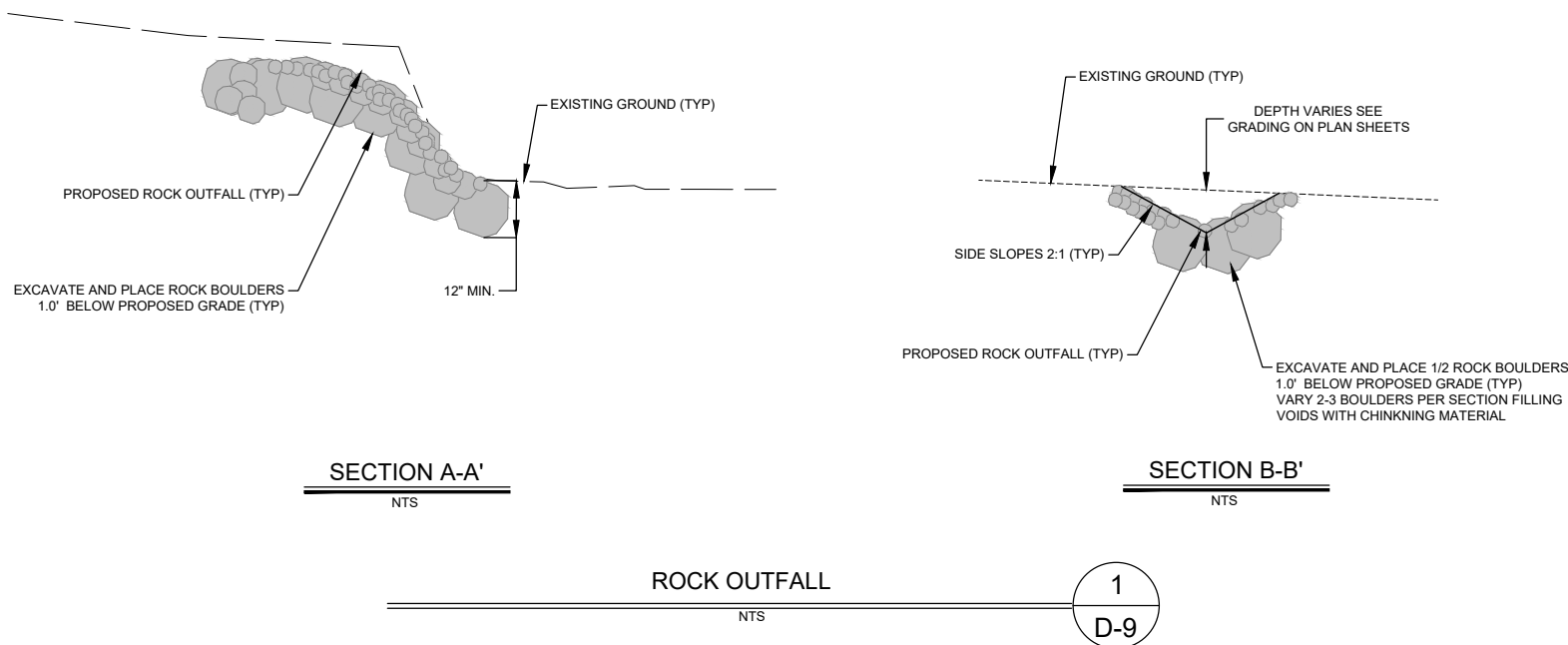
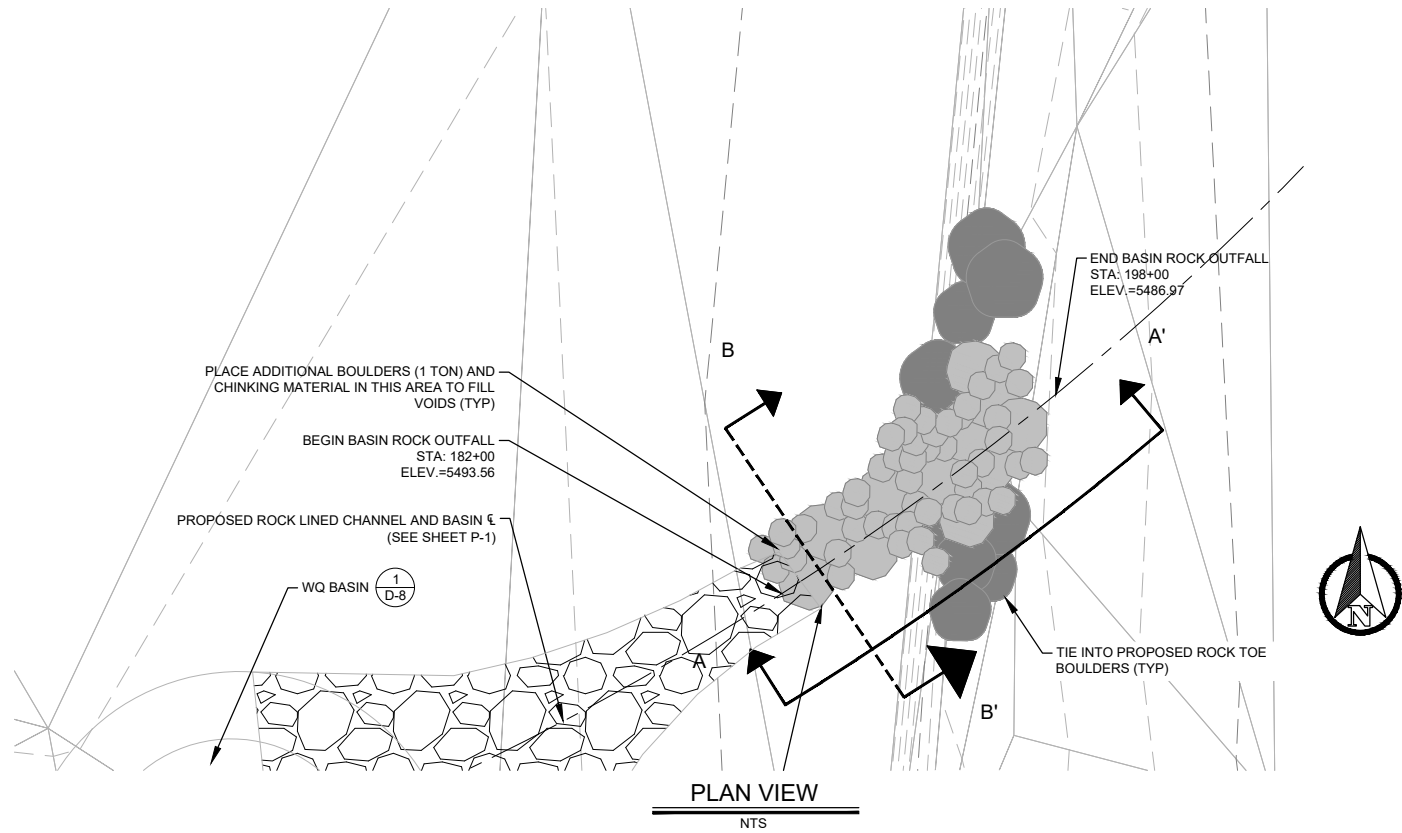
SCALE: AS SHOWN

STANTEC JOB NO. 185706442

FIGURE NO.

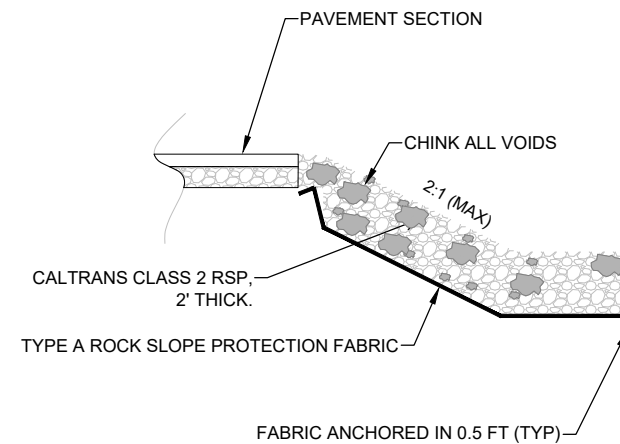
D-8

SHEET 27 OF 33



CONCRETE VALLEY GUTTER, 3' WIDE
NTS

2
D-9



ROCK SLOPE PROTECTION (CLASS II)
NTS

3
D-9

REVISIONS		DATE
NO.		

SEAL

PROFESSIONAL ENGINEER

NO. C 59100

EX. 06/30/25

CIVIL

STATE OF CALIFORNIA

04/18/25

Stantec

295 HWY 50, SUITE 1
STATELINE, NV 89449
(775) 588-9069

*** CALL BEFORE YOU DIG ***

CONTACT UNDERGROUND SERVICE
ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK

DETAIL SHEET 9

MARKLEEVILLE CREEK RESTORATION

ALPINE COUNTY, CALIFORNIA

DATE: 04/2025

DRAWN BY: ND

CHECKED BY: BEM

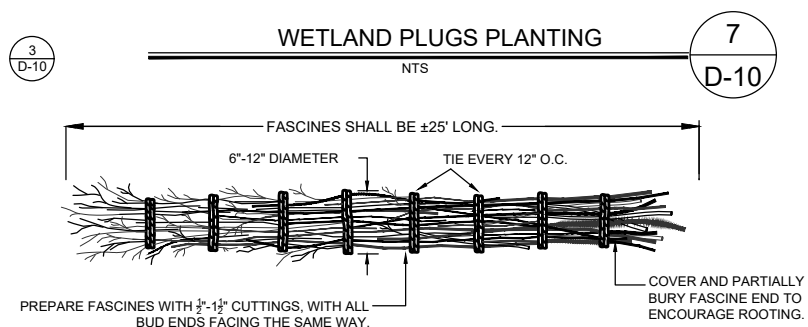
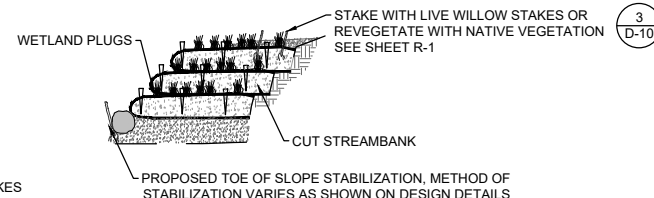
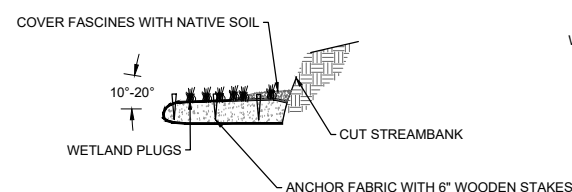
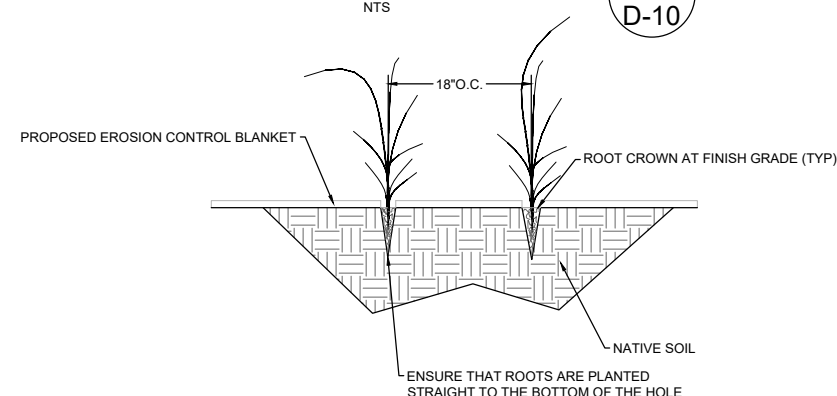
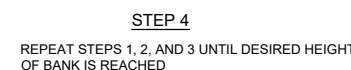
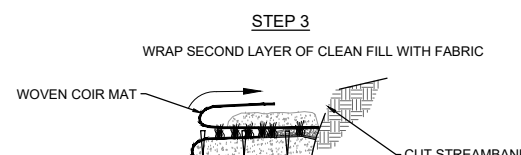
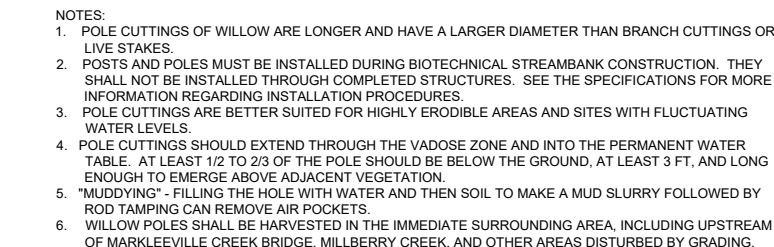
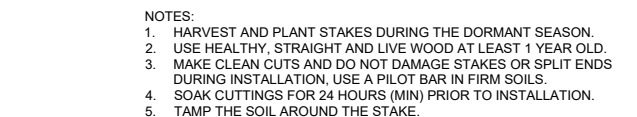
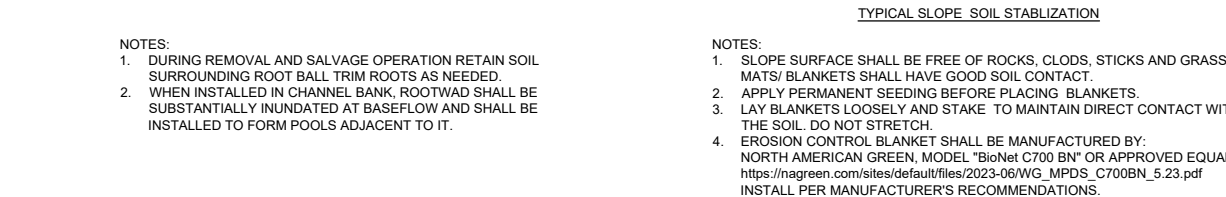
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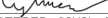

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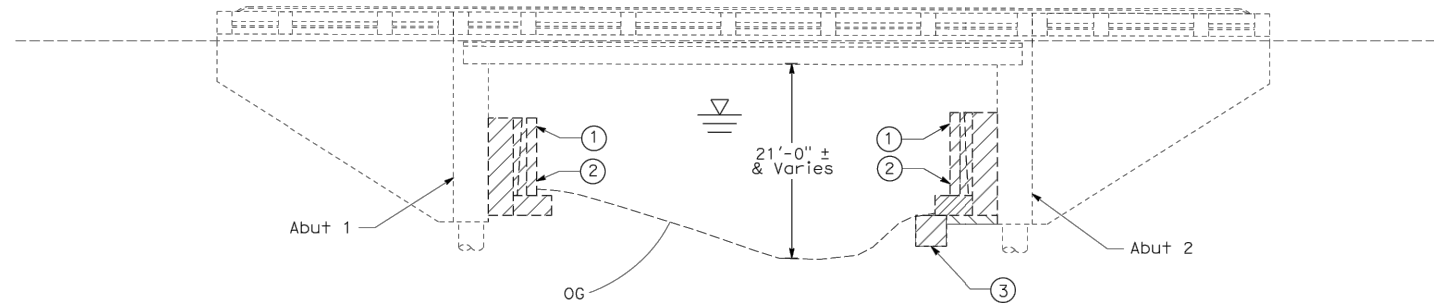
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D-9

SHEET 28 OF 33

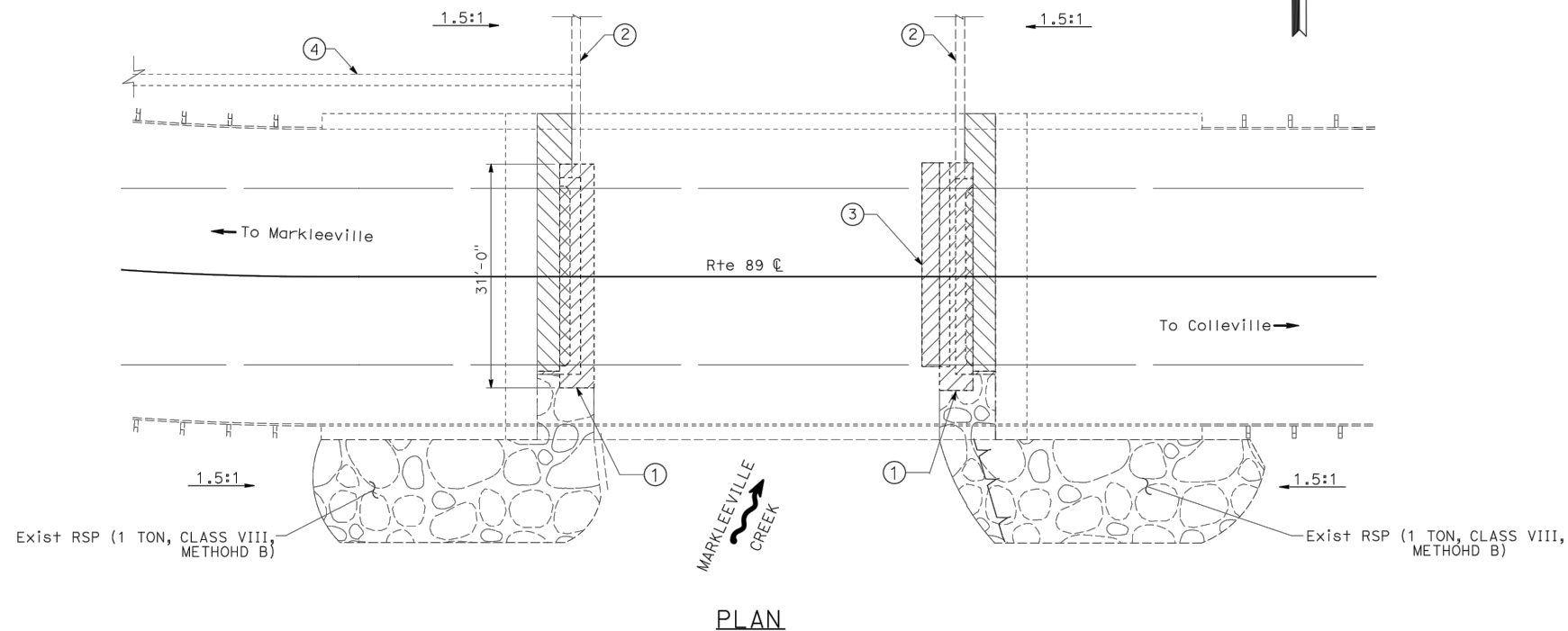
[illegible]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Alp	89	14.7	2	8
 REGISTERED CIVIL ENGINEER			2-16-24		
2-20-24 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



- LEGEND:**
- Exist STRUCTURE
-  LIMITS OF BRIDGE REMOVAL (PORTION)
-  LIMITS OF EXCAVATION
-  ROCK SLOPE PROTECTION (RSP)
-  HIGH WATER MARK

- NOTES:**
- ① Exist Abut, AND CONCRETE CLOSURE POUR, TO BE REMOVED
 - ② Exist COBBLE CHANNEL WALL TO BE REMOVED BY OTHERS
 - ③ Exist CONCRETE SCOUR TO BE REMOVED
 - ④ Exist 24" CMP TO BE REMOVED BY OTHERS



CONSTRUCTION DETAILS
NO SCALE **C-1**

BORDER LAST REVISED 7/2/2010

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USERNAME => s152380
DGN FILE => 1021000061ga001.dgn

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RELATIVE BORDER SCALE
IS IN INCHES

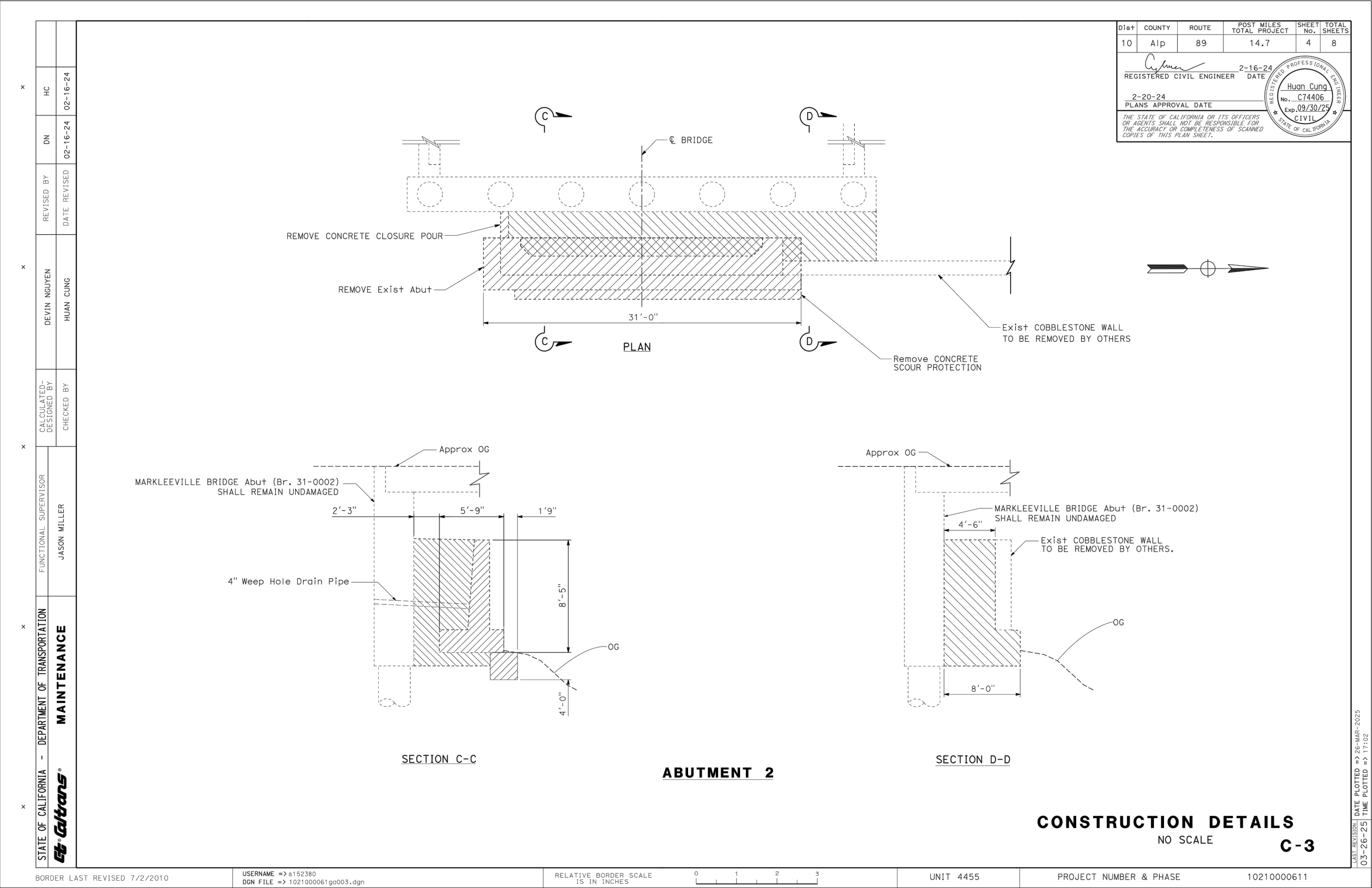
UNIT 4455

PROJECT NUMBER & PHASE

10210000611

LAST REVISION	DATE PLOTTED => 26-MAR-2025
03-26-25	TIME PLOTTED => 17:02

[illegible]



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Alp	89	14.7	4	8
REGISTERED CIVIL ENGINEER			2-16-24	DATE	
2-20-24			PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

Huan Cung

No. C74406

Exp. 09/30/25

CIVIL

STATE OF CALIFORNIA

DATE

REVISIONS

NO.

SEAL

REGISTERED PROFESSIONAL ENGINEER

RENE E. MORAN

No. C 39100

Exp. 06/30/25

CIVIL

STATE OF CALIFORNIA

04/18/25

Stantec

295 HWY 50, SUITE 1

STATELINE, NV 89449

(775) 588-9069

* CALL BEFORE YOU DIG *

CONTACT UNDERGROUND SERVICE ALERT (USA)

1-800-227-2600

PRIOR TO ANY CONSTRUCTION WORK

DETAIL SHEET 12

MARKLEEVILLE CREEK RESTORATION

ALPINE COUNTY, CALIFORNIA

DATE: 04/2025

DRAWN BY: ND

CHECKED BY: BEM

SCALE: AS SHOWN

STANTEC JOB NO. 185706442

FIGURE NO.

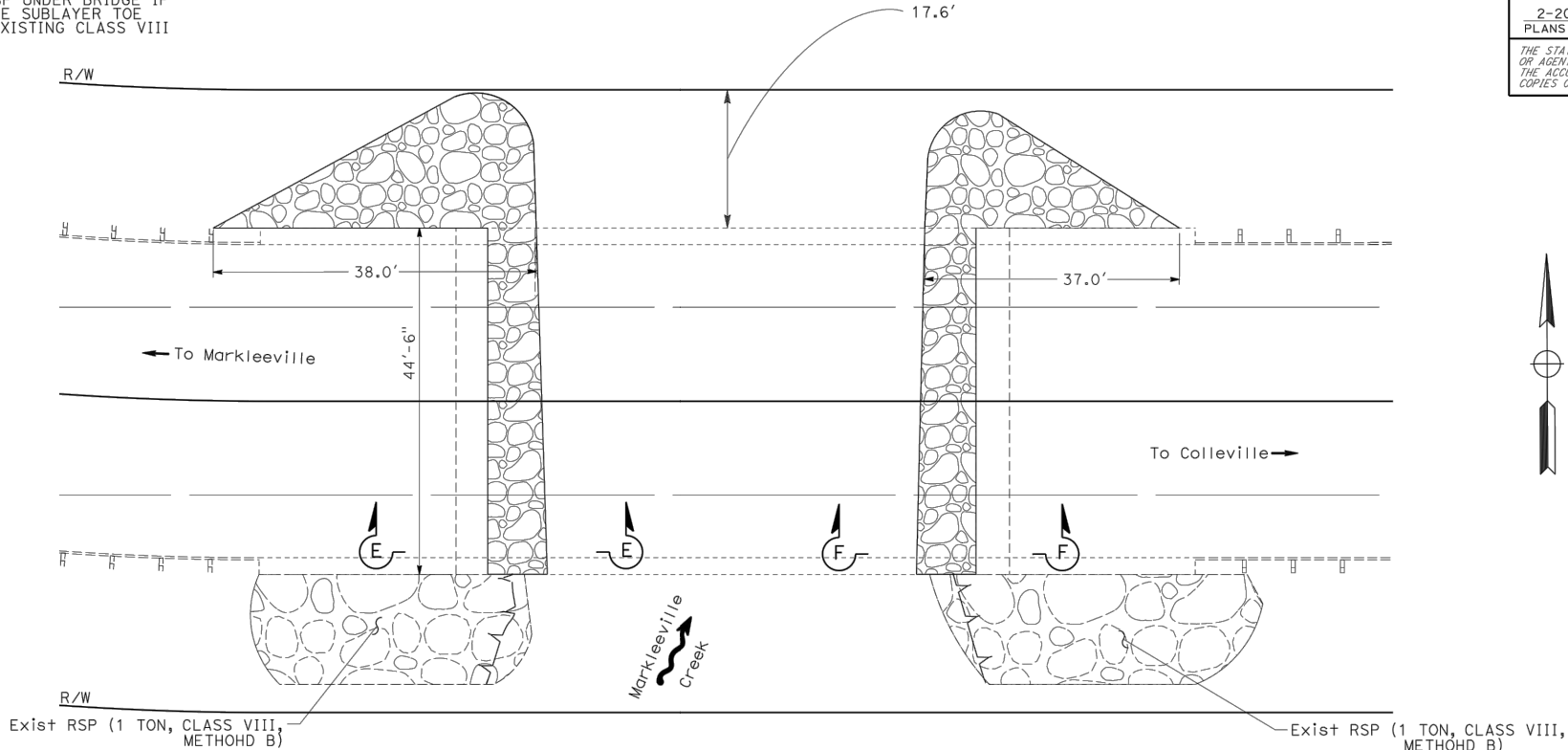
D-12

SHEET 31 OF 33

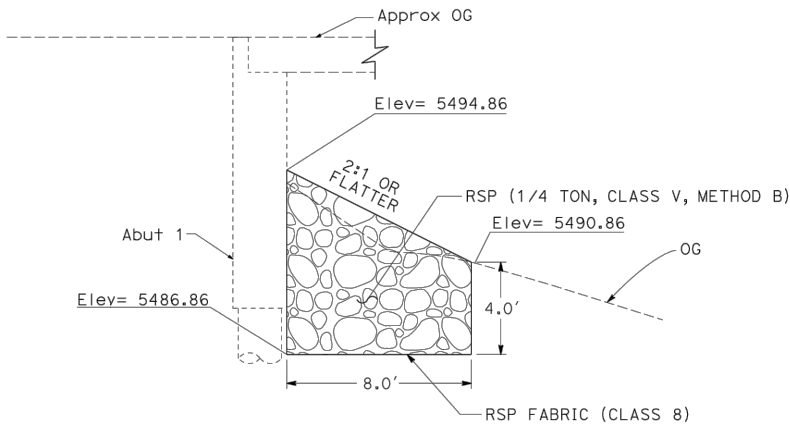
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE	REVISION
Caltrans	JASON MILLER	CHECKED BY	DEVIN NGUYEN	02-16-24	HC
MAINTENANCE			HUAN CUNG	02-16-24	DN

NOTES:

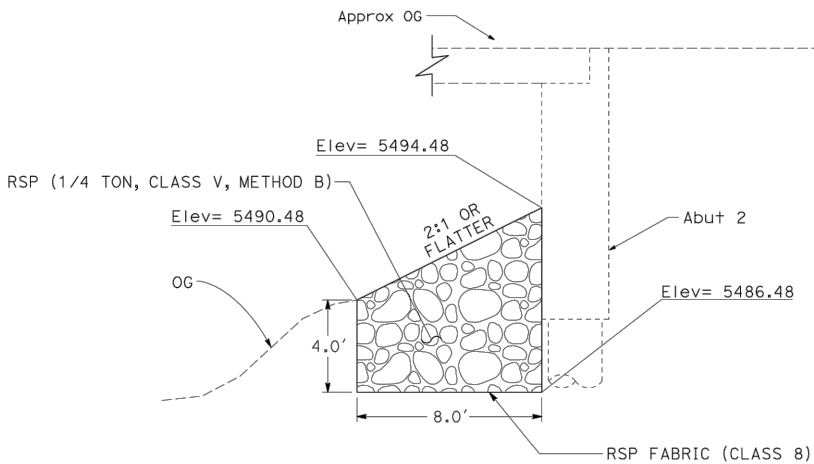
- ABUTMENT WEEP HOLES SHALL NOT BE COVERED OR OBSTRUCTED BY RSP PLACEMENT.
- REMOVE PORTION OF EXISTING RSP UNDER BRIDGE IF NOT PROPERLY TOE'D DOWN. PLACE SUBLAYER TOE CLASS V RSP AND PLACE BACK EXISTING CLASS VIII RSP ARMORING LAYER.



PLAN



SECTION E-E



SECTION F-F

CONSTRUCTION DETAILS

NO SCALE

C-4

LAST REVISION: 03-26-25
DATE PLOTTED => 26-MAR-2025
TIME PLOTTED => 17:02

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Alp	89	14.7	5	8

REGISTERED CIVIL ENGINEER DATE 2-16-24

2-20-24
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
Huan Cung
No. C74406
Exp. 09/30/25
CIVIL
STATE OF CALIFORNIA

DATE	
REVISIONS	
NO.	

04/18/25

295 HWY 50, SUITE 1
STATELINE, NV 89449
(775) 588-9069

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ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK

DETAIL SHEET 13

MARKLEEVILLE CREEK RESTORATION


ALPINE COUNTY, CALIFORNIA

DATE:	04/2025
DRAWN BY:	ND
CHECKED BY:	BEM
SCALE:	AS SHOWN
STANTEC JOB NO.	185706442
FIGURE NO.	

D-13

SHEET 32 OF 33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

 MAINTENANCE

FUNCTIONAL SUPERVISOR

JASON MILLER

CALCULATED-DESIGNED BY

CHECKED BY

DEVIN NGUYEN

HUAN CUNG

REVISED BY

DATE REVISED

DN

02-16-24

HC

02-16-24

STRUCTURAL REMOVAL AND ROCK SLOPE PROTECTION

LOCATION	ROCK SLOPE PROTECTION (1/4 T, CLASS V, METHOD B)	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	BRIDGE REMOVAL (PORTION)	STRUCTURE EXCAVATION (TYPE D)
	CY	SQYD	LS	CY
MARKLEEVILLE CREEK BRIDGE	260	318	1	180
TOTAL	260	318	1	180

SUMMARY OF QUANTITIES

Q-1

BORDER LAST REVISED 7/2/2010

USERNAME => s152380
DGN FILE => 10210000611.q001.dgn

RELATIVE BORDER SCALE
IS IN INCHES

0

1

2

3

UNIT 4455

PROJECT NUMBER & PHASE

10210000611

Dis+

COUNTY

ROUTE

POST MILES
TOTAL PROJECT

SHEET
No.

TOTAL
SHEETS

10

Alp

89

14.7

8

8

REGISTERED CIVIL ENGINEER

DATE

2-16-24

2-20-24

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER

Huan Cung

No. C 74406

Exp. 09/30/25

CIVIL

STATE OF CALIFORNIA

SEAL

REGISTERED PROFESSIONAL ENGINEER

DEVIN E. NGUYEN

No. C 59100

Exp. 06/30/25

CIVIL

STATE OF CALIFORNIA

04/18/25

Stantec

295 HWY 50, SUITE 1

STATELINE, NV 89449

(775) 588-9069

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YOU DIG *

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ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK

DETAIL SHEET 14

MARKLEEVILLE CREEK RESTORATION

ALPINE COUNTY, CALIFORNIA

DATE:

04/2025

DRAWN BY:

ND

CHECKED BY:

BEM

SCALE:

AS SHOWN

STANTEC JOB NO. 185706442

FIGURE NO.

D-14

SHEET 33 OF 33

CALTRANS BRIDGE RSP QUANTITIES

NTS

1

D-14