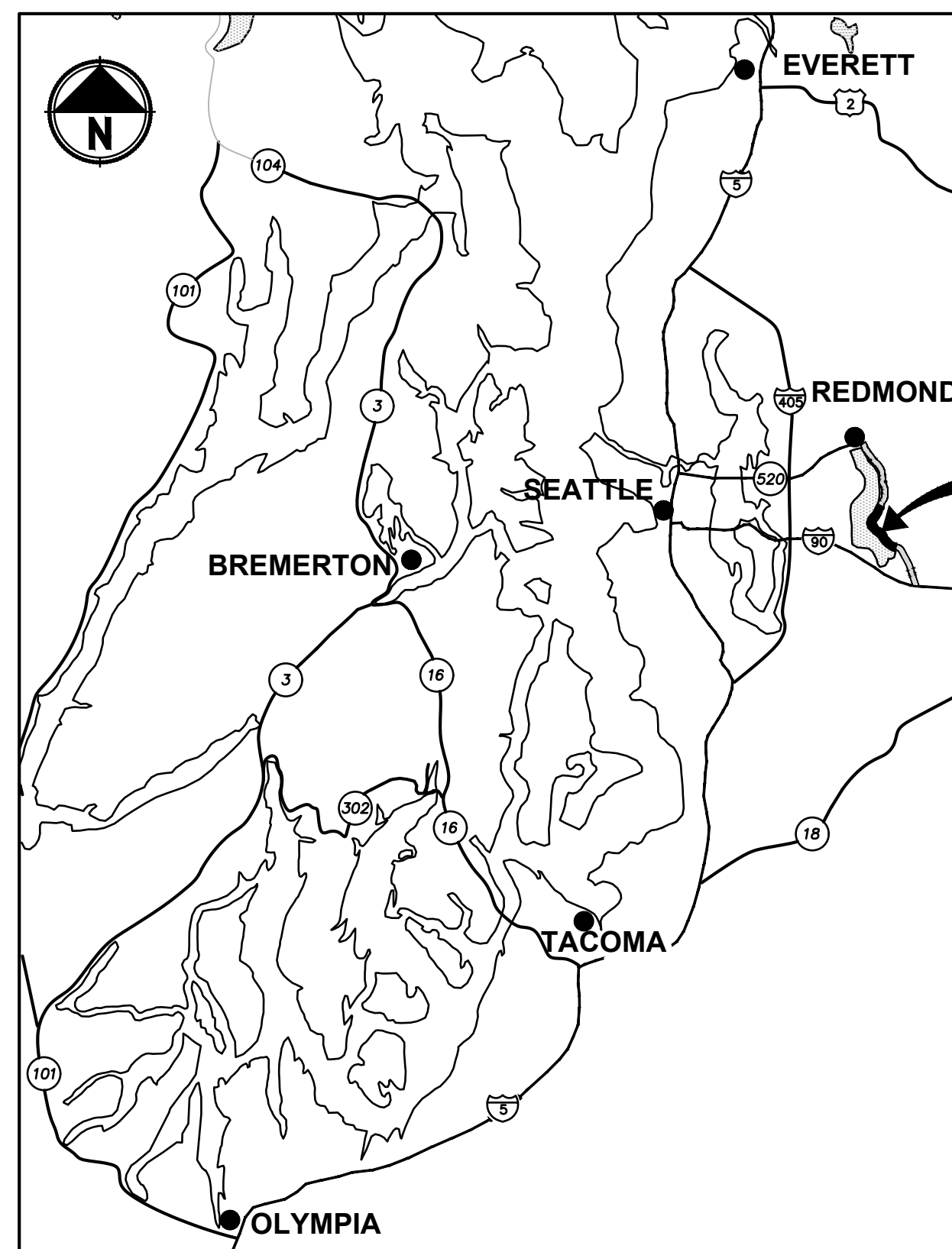


Volume 2

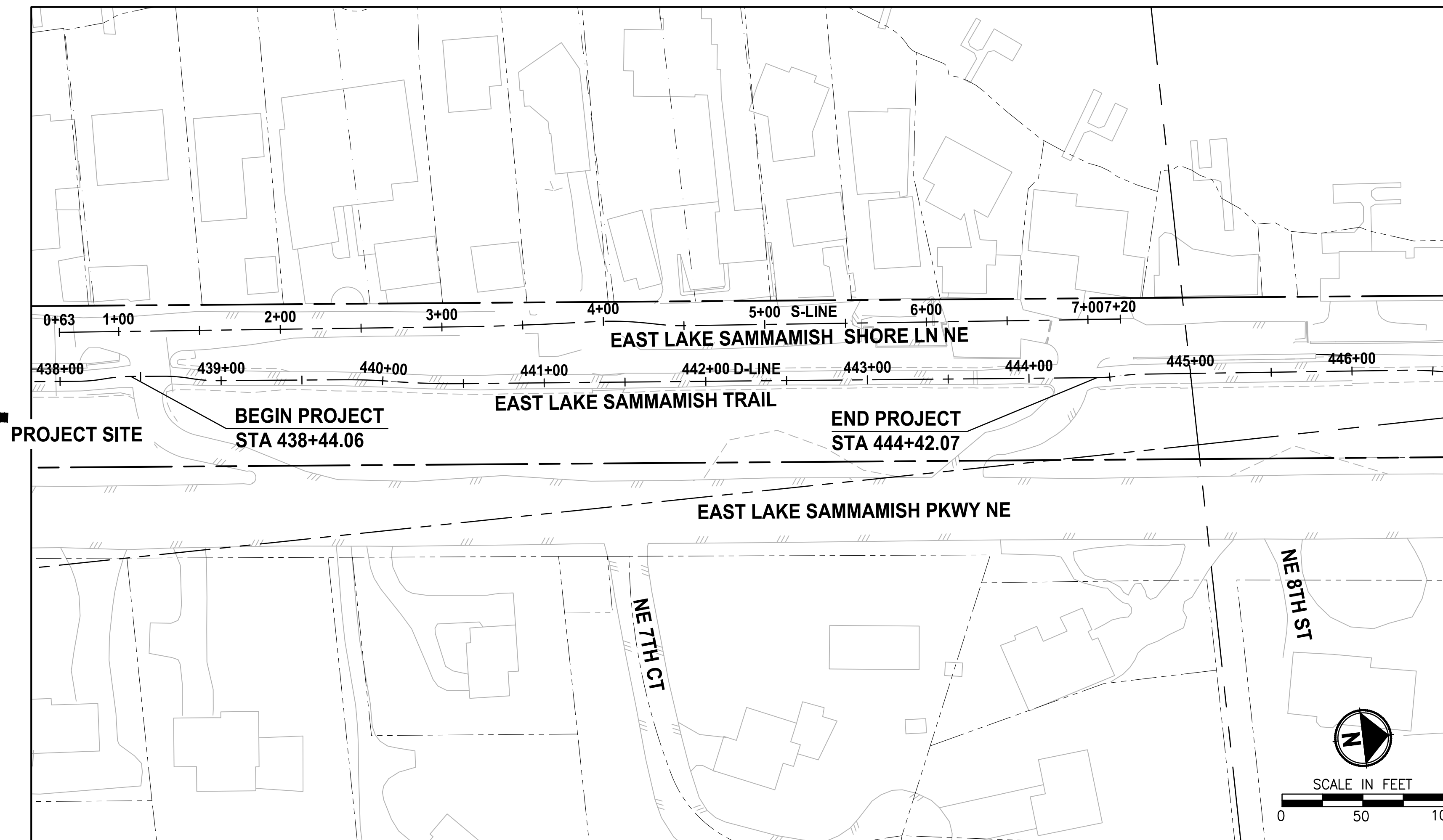
East Lake Sammamish Master Plan Trail

George Davis Creek Culvert Replacements

King County, Washington



LOCATION MAP
 NOT TO SCALE



VICINITY MAP

EXISTING ZONE CLASSIFICATION:

COMMUNITY FACILITIES CF-F

EXISTING SHORELINE ENVIRONMENT DESIGNATION:

CITY OF SAMMAMISH DESIGNATION: SHORELINE RESIDENTIAL

GENERAL PURPOSE OF THIS PROJECT:

TO REMOVE AND REPLACE FISH PASSAGE BARRIER CULVERTS AND RESTORE STREAM CHANNEL AT EAST LAKE SAMMAMISH TRAIL AND EAST LAKE SAMMAMISH SHORE LANE NE.

CONTACT INFORMATION:

KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS AND RECREATION DIVISION
 201 S. JACKSON ST, NR-6500
 SEATTLE, WA 98104
 (206) 263-5855
 CONTACT: DEE HEALY

SURVEYOR:
 PARAMETRIX
 719 2ND AVENUE
 SUITE 200
 SEATTLE, WA 98104
 (206) 394-3700
 CONTACT: LUKE MILLER

ENGINEER:
 PARAMETRIX
 719 2ND AVENUE
 SUITE 200
 SEATTLE, WA 98104
 (206) 394-3700
 CONTACT: CRAIG BUITRAGO, P.E.

ARBORIST:
 AMERICAN FOREST MANAGEMENT, INC
 11415 NE 128TH ST SUITE 110
 KIRKLAND, WA 98034
 (425) 820-3420

UTILITY:
 ONE-CALL 1 (800) 424-5555

SAMMAMISH PLATEAU WATER AND SEWER DISTRICT
 (425) 295-3233
 CONTACT: MARIUS EUGENIO JR.

COMCAST CABLE
 (425) 760-4070
 CONTACT: PARKER STEWART

FRONTIER COMMUNICATIONS NW INC.
 (425) 261-6342/(425) 210-2870
 CONTACT: THOMAS PACEY

PUGET SOUND ENERGY (POWER AND POLE)
 (425) 463-6550
 CONTACT: JEANNE COLEMAN

PUGET SOUND ENERGY (GAS)
 (425) 463-6550
 CONTACT: JEANNE COLEMAN

EASTSIDE FIRE/RESCUE
 (425) 677-3019
 CONTACT: BEN HUDSON

RIGHT OF WAY NOTE:

RIGHT OF WAY LINES SHOWN ARE BASED ON KING COUNTY MAP VAULT SURVEY OF EAST LAKE SAMMAMISH TRAIL, MAP NUMBER 311-99, DATED AUGUST 8TH, 1998, WITH SUBSEQUENT CONVEYANCES AND EASEMENTS BEING UPDATED ACCORDING TO AUDITOR DOCUMENTS OF RECORD.

PROPERTY INFORMATION:

PARCEL NUMBERS: 322506-9015 (13.79 ACRES)

PROJECT & SITE INFORMATION:

KING COUNTY PROPOSED FISH PASSAGE CULVERT REPLACEMENTS AND ASSOCIATED STREAM RESTORATION AS PART OF THE CRITICAL AREAS MITIGATION FOR THE EAST LAKE SAMMAMISH MASTER PLAN TRAIL PROJECT. LOCATED IN THE CITY OF SAMMAMISH NEAR THE INTERSECTION OF EAST LAKE SAMMAMISH PARKWAY NE AND NE 7TH CT.

DISTURBED AREA = 0.9 AC
 EXISTING IMPERVIOUS AREA = 0.2 AC
 PROPOSED IMPERVIOUS AREA = 0.5 AC
 VOLUME OF ESTIMATED FILL = 800 CY
 VOLUME OF ESTIMATED EXCAVATION = 1,900 CY

WRITTEN DESCRIPTION OF THE PROJECT:

THE EXISTING STREAM CULVERTS AT THE TRAIL AND EAST LAKE SAMMAMISH SHORE LANE NE CROSSINGS WILL BE REMOVED AND REPLACED WITH CONCRETE BOX CULVERTS

THE PROPOSED IMPROVEMENTS INCLUDE PRECAST CONCRETE BOX CULVERTS AND ASSOCIATED WINGWALLS, STREAM GRADINGS, RELOCATING UNDERGROUND UTILITIES, TEMPORARY ACCESS IMPROVEMENTS, FENCE AND MITIGATION FOR IMPACTS TO STREAM BUFFERS.

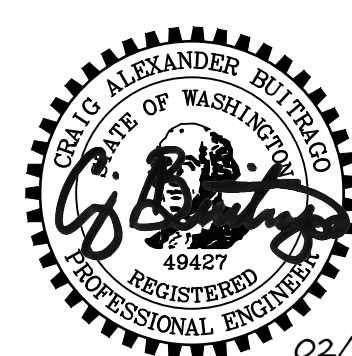
WORK INCLUDES ALL WORK WITHIN KING COUNTY PROPERTY BOUNDARY.

CG2016-03470
 SSDP2016-00415

Conformed Set



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FILE NAME
 BL1521075P19T03G-01_GDC

JOB No.
 554-1521-075 P28 T04

DATE
 FEBRUARY 2026

Parametrix
 719 2nd Avenue, Suite 200 • Seattle, WA 98104
 Ph: 206.394.3700

PROJECT NAME
**EAST LAKE SAMMAMISH
 MASTER PLAN TRAIL
 GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
 SAMMAMISH, WA

COVER SHEET

SHEET NO.
 1 OF 35

G1

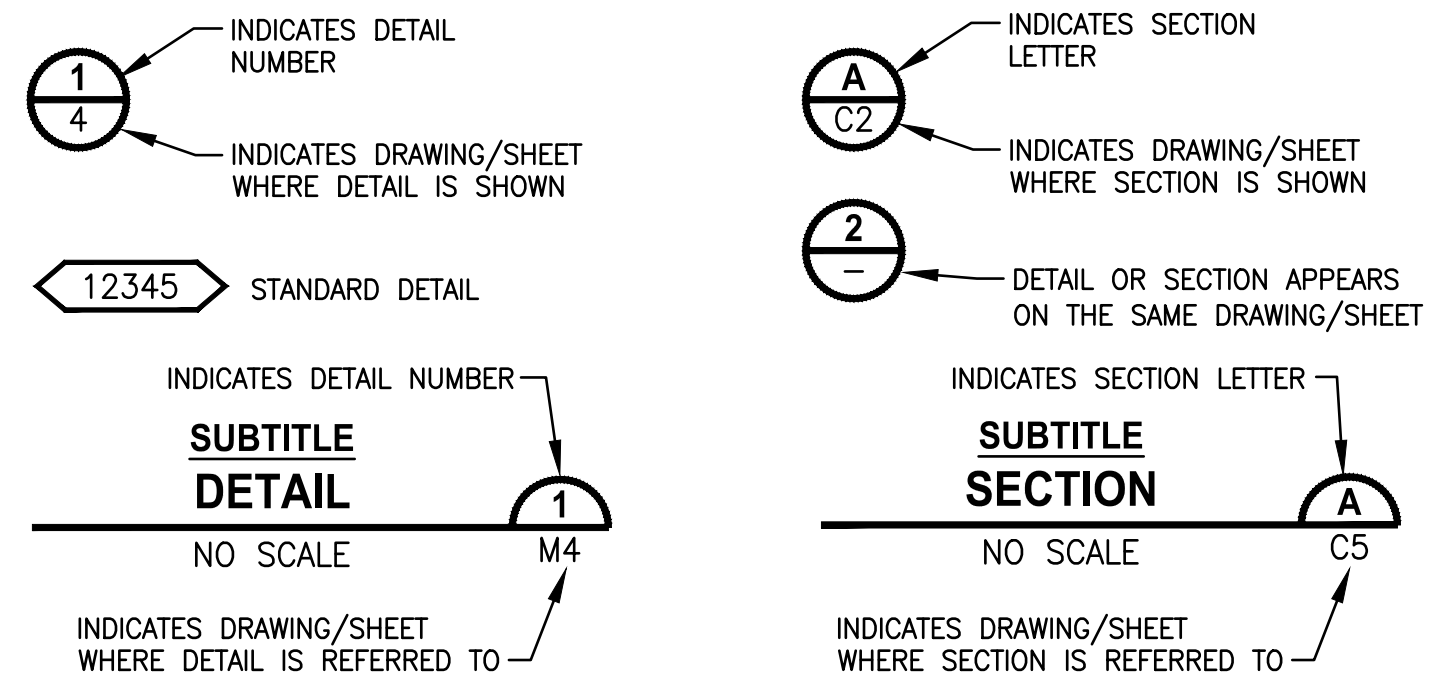
LAYOUT: G1 PATH: U:\PSO\Projects\Clients\1521-075-ELST\985\ca\00\Phase 19\T03_Civil\Draw-GDC 2025\DWG PLOTTED BY: purgubut DATE: Tuesday, February 10, 2026 1:15:01 PM

LAYOUT: 02 PATH: U:\PSO\Projects\Clients\1521-075-ELST\995\cadd\Phase 19\T03_Civil\Draw-GDC_2025\DWG\ PLOTTED BY: purgabub DATE: Tuesday, February 10, 2026 6:55:25 AM

ABBREVIATIONS:

AC	ASBESTOS CEMENT PIPE	MIN	MINIMUM
ACP	ASPHALT CONCRETE PAVEMENT	MON	MONUMENT
ADS	ADVANCED DRAINAGE SYSTEMS	MPE	MEDIUM DENSITY POLYETHYLENE PIPE
APPROX	APPROXIMATE	N	NORTH, NORTHING
BOC	BACK OF CURB	N.I.C.	NOT IN CONTRACT
BTM	BOTTOM	NST	NOT STEEPER THAN
BOW	BOTTOM OF WALL	PC	POINT OF CURVE
BVCE	BEGIN VERTICAL CURVE ELEVATION	PE, PEP	POLYETHYLENE PIPE
BVCS	BEGIN VERTICAL CURVE STATION	PT	POINT OF TANGENT
CB	CATCH BASIN	P/L	PROPERTY LINE
C&G	CURB AND GUTTER	PRO	PROPOSED
C/L, CL	CENTERLINE	PUD	PUBLIC UTILITY DISTRICT
CO	CLEANOUT	PVC	POLYVINYL CHLORIDE PIPE
COM	COMMUNICATION	PVI	POINT OF VERTICAL INTERSECTION
CONC	CONCRETE	PWR	POWER
CORR	CORRUGATED	RCP	REINFORCED CONCRETE PIPE
COS	CITY OF SAMMAMISH	REINF	REINFORCED
CONST	CONSTRUCTION	ROW, R/W	RIGHT-OF-WAY
CMP	CORRUGATED METAL PIPE	RT	RIGHT
CP	CONCRETE PIPE	SD	STORM DRAIN
CSTC	CRUSHED SURFACING TOP COURSE	SDMH	STORMWATER MANHOLE
DIA	DIAMETER	SIM	SIMILAR
DI, DIP	DUCTILE IRON PIPE	SEW	STRUCTURAL EARTH RETAINING WALL
E	EAST, EASTING	SPECS	SPECIFICATIONS
EL	ELEVATION	SPWSD	SAMMAMISH PLATEAU WATER & SEWER DISTRICT
EOA	EDGE OF ASPHALT	SS	SANITARY SEWER
EVCE	END VERTICAL CURB ELEVATION	SSFM	SANITARY SEWER FORCE MAIN
EVCS	END VERTICAL CURB STATION	ST	STEEL
EOG	EDGE OF GRAVEL	STA	STATION
EOP	EDGE OF PAVEMENT	STD	STANDARD
EX, EXIST	EXISTING	TEL	TELEPHONE
FOC	FACE OF CURB	TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
FL	FLANGE, FLOWLINE	TOW	TOP OF WALL
G	GAS	UD	UNDERDRAIN
GB	GRADE BREAK	TYP	TYPICAL
HDPE	HIGH DENSITY POLYETHYLENE PIPE	W, WTR	WATER
HMA	HOT MIX ASPHALT	WS	WATER SERVICE
IE	INVERT ELEVATION	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
LF	LINEAR FEET	WWM	WELDED WIRE MESH
LP	LOW POINT		
LT	LEFT		
ME	MATCH EXISTING		

DETAIL AND SECTION DESIGNATION



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2	G2	ABBREVIATIONS AND SHEET LIST
3	G3	LEGEND
4	G4	SURVEY CONTROL PLAN
EXISTING CONDITIONS		
5	EX1	EXISTING CONDITIONS PLAN
TYPICAL CROSS SECTIONS		
6	CS1	TYPICAL CROSS SECTIONS
SITE PREPARATION		
7	SP1	SITE PREPARATION PLAN
TESC		
8	TE1	TESC PLAN
TESC DETAILS		
9	TD1	TESC DETAILS
PLAN & PROFILE		
10	AL1	TRAIL PLAN AND PROFILE
11	AL2	TRAIL PLAN AND PROFILE
12	AL3	ROAD PLAN AND PROFILE
UTILITY AND DRAINAGE		
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19	FP4	FISH PASSAGE CULVERTS WINGWALL PROFILES AND DETAILS
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FILE NAME
BL1521075P19T03G-02_GDC

JOB No.
554-1521-075 P28 T04

DATE
FEBRUARY 2026

REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			DRAWN B. PURGANAN
			CHECKED Y. HO
			APPROVED C. BUITRAGO

ParametriX
719 2nd Avenue, Suite 200 • Seattle, WA 98104
Ph: 206.394.3700

PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
SAMMAMISH, WA

ABBREVIATIONS AND SHEET LIST

SHEET NO.
2 OF 35
G2

Conformed Set

LAYOUT: G3 PATH: U:\PSO\Projects\Clients\1521-1521-075-ELST\995\cs\GDD\Phase 19\T03_Civil\Draw-GDC_2025\DWG\ PLOTTED BY: purgabat DATE: Tuesday, February 10, 2026 6:55:30 AM

LEGEND

DESCRIPTION	PROPOSED	EXISTING
RIGHT OF WAY	---	—R/W—
PROPERTY LINE	---	---P/L---
RR LEASE LINE	---	---
SECTION LINE	---	---
QUARTER SECTION LINE	---	---
FOUND MONUMENTS		⊕ ⊗
REBAR & CAP		○
HUB & TACK		□
PK NAIL		×
FOUND MAG NAIL		+
SET MAG NAIL		+
PROPERTY CORNER		●
EASEMENT LINE	---	---
STREAM BUFFER	---	---
STREAM	→→→→	→→→→
EDGE OF WATER	---	---
WETLAND FLAG		▬
WETLAND BUFFER	---	---
ORDINARY HIGH WATER MARK	---	---
FLOODWAY BOUNDARY	---	---
SHORELINE	---	---
50' SHORELINE SETBACK	---	---
200' SHORELINE SETBACK	---	---
DITCH	→→→→	→→→→
JURISDICTIONAL DITCH CENTERLINE & EDGES	→→→→	→→→→
TEMPORARY EXCAVATION LIMIT	---	---
SOLID WALL PVC	---	---
TEMPORARY DRAIN PIPE	—D—D—D—	---
STORM DRAIN	---	—SD—SD—SD—
STORM DRAIN (PER RECORD INFO)	---	—SD—SD—SD—
CULVERT/STORM DRAIN PIPE	▬	▬
QUARRY SPALL/RIP RAP	⊗	⊗
CATCH BASIN, TYPE 1	■	■
CATCH BASIN, TYPE 2	●	●
CATCH BASIN W/ SOLID LID	⊗	⊗
INLET PROTECTION	⊗	⊗
SANITARY SEWER LINE	---	—SS—SS—SS—
SANITARY SEWER LINE (PER RECORD INFO)	---	—SS—SS—SS—
SANITARY SEWER MANHOLE	⊙	⊙
SANITARY SEWER VALVE	⊗	⊗
SANITARY SEWER VAULT	⊗	⊗
CLEANOUT	○	⊙
CONTOURS MAJOR	—10—	—10—
CONTOURS MINOR	—2—	—2—
HIGH VISIBILITY SILT FENCE	—□—□—□—□—	—□—□—□—□—
HIGH VISIBILITY FENCE	—X—X—X—X—	—X—X—X—X—
CLEARING AND GRUBBING LIMITS	—CG—CG—CG—CG—	—CG—CG—CG—CG—
CLEARING LIMITS	—CLR—CLR—CLR—CLR—	—CLR—CLR—CLR—CLR—
MITIGATION CLEARING	—MC—MC—MC—MC—	—MC—MC—MC—MC—
FILL LINE	---F---	---F---
CUT LINE	---C---	---C---
SAWCUT	▬▬▬▬	---

LEGEND

DESCRIPTION	PROPOSED	EXISTING
PAVING/OVERLAY LIMIT	---	---
ASPHALT EDGE	---	---
CONCRETE LINE	---	---
CURB AND GUTTER	---	---
EDGE OF GRAVEL	---	---
BARBWIRE FENCE	---	---
SPLIT RAIL FENCE	---	---
BOARD FENCE	---	---
TWO-RAIL FENCE	---	---
CHAIN LINK FENCE	---	---
TEMPORARY CHAIN LINK SECURITY FENCE	---	---
HOG WIRE FENCE	---	---
WOOD GUARDRAIL	---	---
GUY ANCHOR	⊙	⊙
POWER POLE WITH LIGHT	⊙	⊙
FLOOD LIGHT	⊙	⊙
UTILITY POLE	⊙	⊙
PP W/ UG DROP	⊙	⊙
PP W/ UG DROP & XMFR	⊙	⊙
PP W/ XMFR	⊙	⊙
OVERHEAD POWER AND/OR TELECOM	---	---
OVERHEAD POWER (PER RECORD INFO)	---	---
POWER	---	---
POWER (PER RECORD INFO)	---	---
POWER VAULT	⊙	⊙
POWER TRANSFORMER	⊙	⊙
POWER MANHOLE	⊙	⊙
POWER HANDHOLE	⊙	⊙
POWER CABINET	⊙	⊙
POWER RISER	⊙	⊙
POWER METER	⊙	⊙
SOLID LID J-BOX	⊙	⊙
STAND PIPE / HOSE BIB	⊙	⊙
LUMINAIRE	⊙	⊙
TELEPHONE VAULT	⊙	⊙
TELEPHONE RISER	⊙	⊙
TELEPHONE MANHOLE	⊙	⊙
TELEPHONE/COMMUNICATION	---	---
TELEPHONE/COMMUNICATION (PER RECORD INFO)	---	---
TV RISER	⊙	⊙
TV	⊙	⊙
GAS VALVE	⊙	⊙
GAS METER	⊙	⊙
GAS	---	---
GAS (PER RECORD INFO)	---	---
WATER LINE	---	---
WATER LINE (PER RECORD INFO)	---	---
FIRE HYDRANT	⊙	⊙
WATER METER	⊙	⊙
WATER VALVE	⊙	⊙
WATER VAULT	⊙	⊙
MONITORING WELL OR ARTESIAN WELL	⊙	⊙
AREA DRAIN	⊙	⊙
ROOF DRAIN	⊙	⊙
WATER BLOW OFF VALVE	⊙	⊙
WATER POST INDICATOR	⊙	⊙
SPRINKLER HEAD ROT=90	⊙	⊙

LEGEND

DESCRIPTION	PROPOSED	EXISTING
IRRIGATION CONTROL VALVE	⊙	⊙
FLOW DIRECTION	→	→
PROPERTY PARCEL NUMBER	---	---
TRAFFIC SIGNAL POLE W/ LAMP	⊙	⊙
TRAFFIC SIGNAL POLE	⊙	⊙
TRAFFIC CONTROL LOOP (SQ)	⊙	⊙
TRAFFIC CONTROL CABINET	⊙	⊙
PEDESTRIAN POLE	⊙	⊙
SAMPLE PLOT	⊙	⊙
SURFACE POST	⊙	⊙
SIGN	⊙	⊙
SKIP LANE LINE	---	---
SOLID LANE LINE	---	---
FOG LINE	---	---
LTO ARROW	→	→
STO ARROW	→	→
RTO ARROW	→	→
MAILBOX	⊙	⊙
DECIDUOUS TREE	⊙	⊙
CONIFEROUS TREE	⊙	⊙
WETLAND SYMBOL	⊙	⊙
WETLAND BOUNDARY	---	---
VEGETATION	⊙	⊙
STRUCTURAL EARTH WALL	▬	▬
ROCK WALL	▬	▬
HANDICAPPED SYMBOL	⊙	⊙
WHEELCHAIR RAMP	▬	▬
BUILDING LINE	▬	▬
CONCRETE STAIR LINE	▬	▬
WOOD STAIRWAY	▬	▬
REMOVE ASPHALT	▬	▬
PATTERNED CONCRETE INTERSECTION	▬	▬
COFFERDAM	▬	▬
CHECK DAM	▬	▬
WATTLE CHECK DAM	▬	▬
FORMER RAILROAD CENTERLINE	220 + RR C/L	---
CONSTRUCTION CENTERLINE	220+00 + A-LINE	---



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REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			B. PURGANAN
			Y. HO
			C. BUITRAGO

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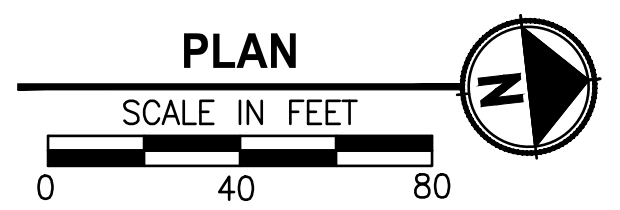
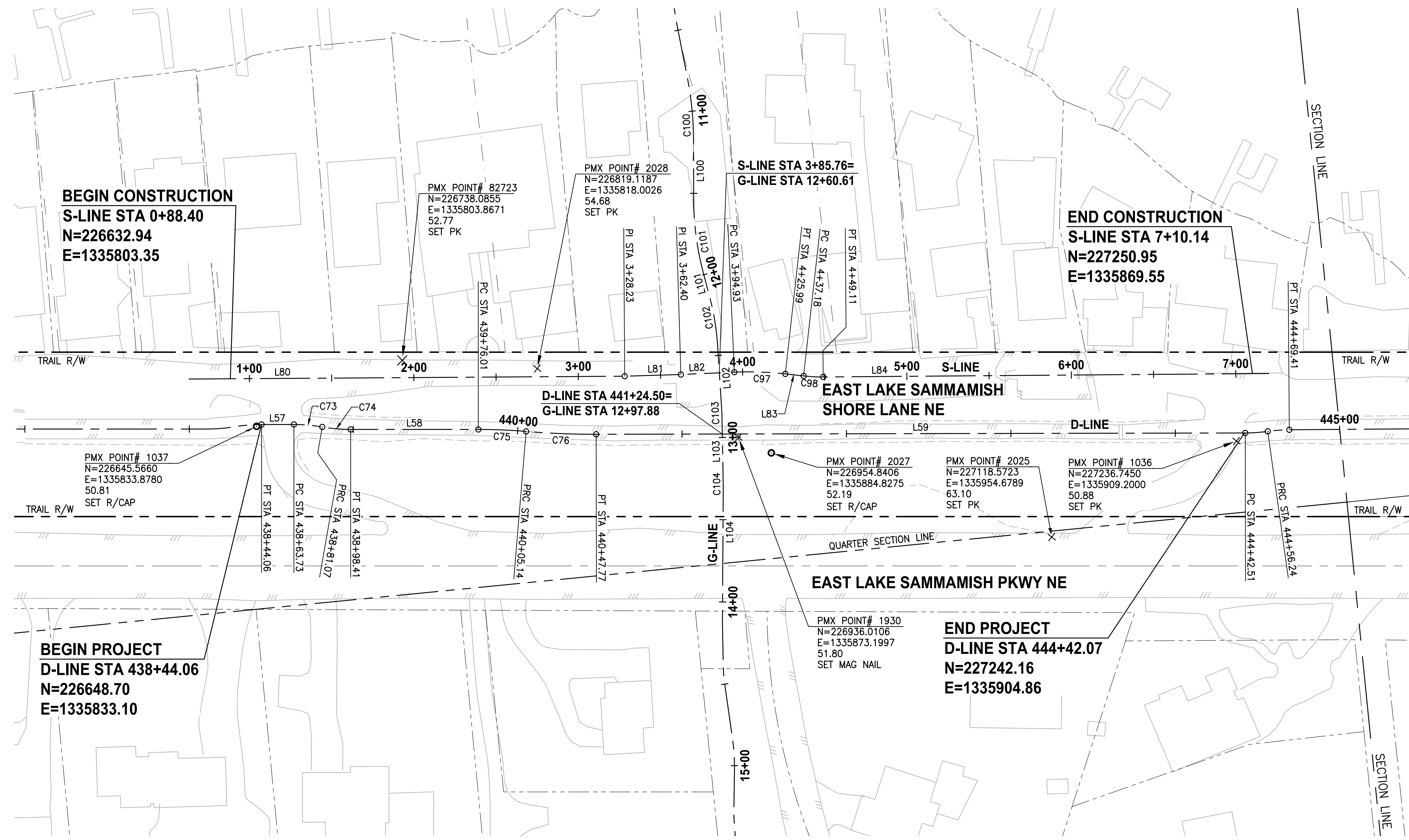
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LEGEND

SHEET NO.
3 OF 35

G3

LAYOUT: G4
 PATH: U:\PSO\Projects\Clients\1521-KingCo\554-1521-075-ELST\995\CA00\Phase 19\T03_Civil\Draw-GDC_2025\DWG\



ALIGNMENT DATA

D-LINE LINE TABLE						
LINE	LENGTH	BEARING	BEGIN EASTING	BEGIN NORTHING	END EASTING	END NORTHING
L57	19.67	N6° 24' 06"E	1335833.10	226648.70	1335835.29	226668.25
L58	77.60	N6° 24' 06"E	1335842.12	226702.21	1335850.77	226779.32
L59	394.74	N6° 17' 08"E	1335861.69	226850.23	1335904.91	227242.59

D-LINE CURVE TABLE							
CURVE	LENGTH	RADIUS	DELTA	BEGIN EASTING	BEGIN NORTHING	END EASTING	END NORTHING
C73	17.34	100.00	9°56'11"	1335835.29	226668.25	1335838.71	226685.23
C74	17.34	100.00	9°56'11"	1335838.71	226685.23	1335842.12	226702.21
C75	29.13	350.00	4°46'08"	1335850.77	226779.32	1335855.22	226808.11
C76	42.63	500.00	4°53'06"	1335855.22	226808.11	1335861.69	226850.23

S-LINE LINE TABLE						
LINE	LENGTH	BEARING	BEGIN EASTING	BEGIN NORTHING	END EASTING	END NORTHING
L80	264.95	N6° 01' 37"E	1335800.71	226607.95	1335828.53	226871.44
L81	34.17	N4° 40' 47"E	1335828.53	226871.44	1335831.32	226905.50
L82	32.53	N3° 53' 40"E	1335831.32	226905.50	1335833.53	226937.95
L83	11.20	N12° 47' 30"E	1335838.03	226968.65	1335840.51	226979.57
L84	270.96	N5° 57' 29"E	1335842.45	226991.33	1335870.58	227260.82

S-LINE CURVE TABLE							
CURVE	LENGTH	RADIUS	DELTA	BEGIN EASTING	BEGIN NORTHING	END EASTING	END NORTHING
C97	31.06	200.00	8°53'49"	1335833.53	226937.95	1335838.03	226968.65
C98	11.93	100.00	6°50'00"	1335840.51	226979.57	1335842.45	226991.33

G-LINE LINE TABLE						
LINE	LENGTH	BEARING	BEGIN EASTING	BEGIN NORTHING	END EASTING	END NORTHING
L100	36.17	S83° 45' 16"E	1335690.57	226929.03	1335726.52	226925.10
L101	16.48	S81° 42' 23"W	1335770.80	226925.89	1335787.11	226928.27
L102	37.91	S87° 16' 21"E	1335815.89	226929.67	1335853.76	226927.86
L103	35.39	S84° 39' 50"E	1335860.57	226927.38	1335895.80	226924.09
L104	73.27	S83° 14' 09"E	1335908.19	226922.78	1335980.95	226914.15

G-LINE CURVE TABLE							
CURVE	LENGTH	RADIUS	DELTA	BEGIN EASTING	BEGIN NORTHING	END EASTING	END NORTHING
C100	38.39	200.00	10°59'48"	1335652.24	226929.53	1335690.57	226929.03
C101	44.41	175.00	14°32'21"	1335726.52	226925.10	1335770.80	226925.89
C102	28.85	150.00	11°01'17"	1335787.11	226928.27	1335815.89	226929.67
C103	6.83	150.00	2°36'31"	1335853.76	226927.86	1335860.57	226927.38
C104	12.46	500.00	1°25'41"	1335895.80	226924.09	1335908.19	226922.78

SURVEY NOTES:

- HORIZONTAL DATUM: NAD83 (CORS).
- RTK CORRECTIONS OBTAINED FROM NGS CORS ID POINT "SEAT" ON OCTOBER 3, 2007.
- VERTICAL DATUM: NAVD88.
- WSDOT SITE BENCHMARKS HELD FOR THIS SURVEY ARE NOS. 2355, 6762, 6294, AND 617.
- METHODOLOGY: FIELD MEASUREMENTS FOR THIS SURVEY WERE PERFORMED USING TRIMBLE 5800 RTK WITH CELL PHONE AND LIECA TCRA 1103 FULL ROBOTIC 3 SECOND TOTAL STATION IN CONFORMANCE WITH ACCEPTED SURVEY STANDARDS AS SPECIFIED BY WAC 332-130 FOR LINEAR AND ANGULAR CLOSURE.
- THE RIGHT-OF-WAY DIMENSIONS SHOWN WERE PROVIDED BY KING COUNTY SURVEY DATED 1998 AND DO NOT REPRESENT A BOUNDARY SURVEY PERFORMED BY PARAMETRIX, UNLESS OTHERWISE NOTED ON EX SHEETS.
- CONTRACTOR SHALL RECONCILE COUNTY AND CITY CONTROL TO A SINGLE PROJECT DATUM (NAD83(2011) / NAVD88) AND SHALL ESTABLISH UNIFIED PROJECT CONTROL PRIOR TO ANY STAKING. BENCHMARKS AND CONTROL POINTS SHALL BE CONSISTENT ACROSS VOLUME 1 SHEET C-004 AND VOLUME 2 SHEET G4.



Parametrix
 719 2nd Avenue, Suite 200 • Seattle, WA 98104
 Ph: 206.394.3700

PROJECT NAME
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 MASTER PLAN TRAIL
 GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
 SAMMAMISH, WA

Conformed Set

SURVEY CONTROL PLAN

SHEET NO.
 4 OF 35

G4

REVISIONS	DATE	BY	DESIGNED
			L. MILLER
			B. PURGANAN
			Y. HO
			C. BUITRAGO

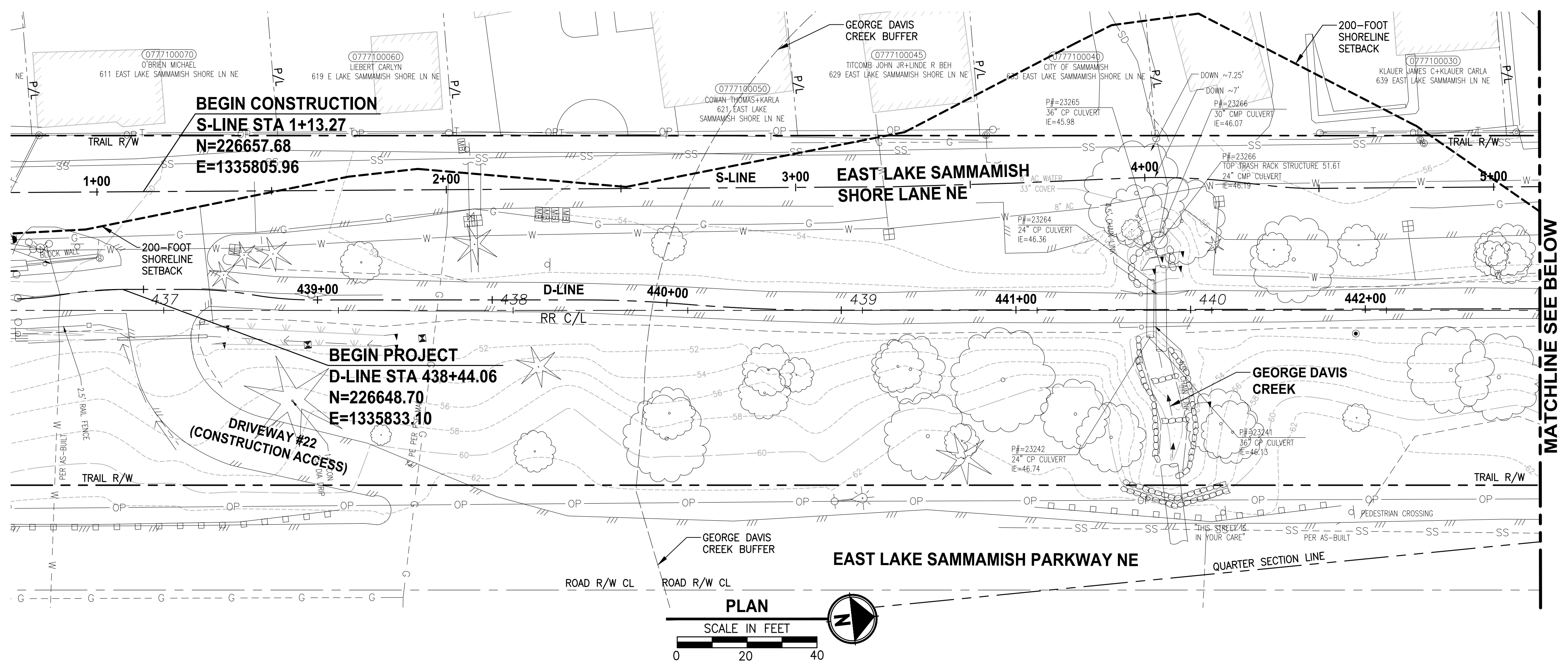
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FILE NAME
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JOB No.
 554-1521-075 P28 T04

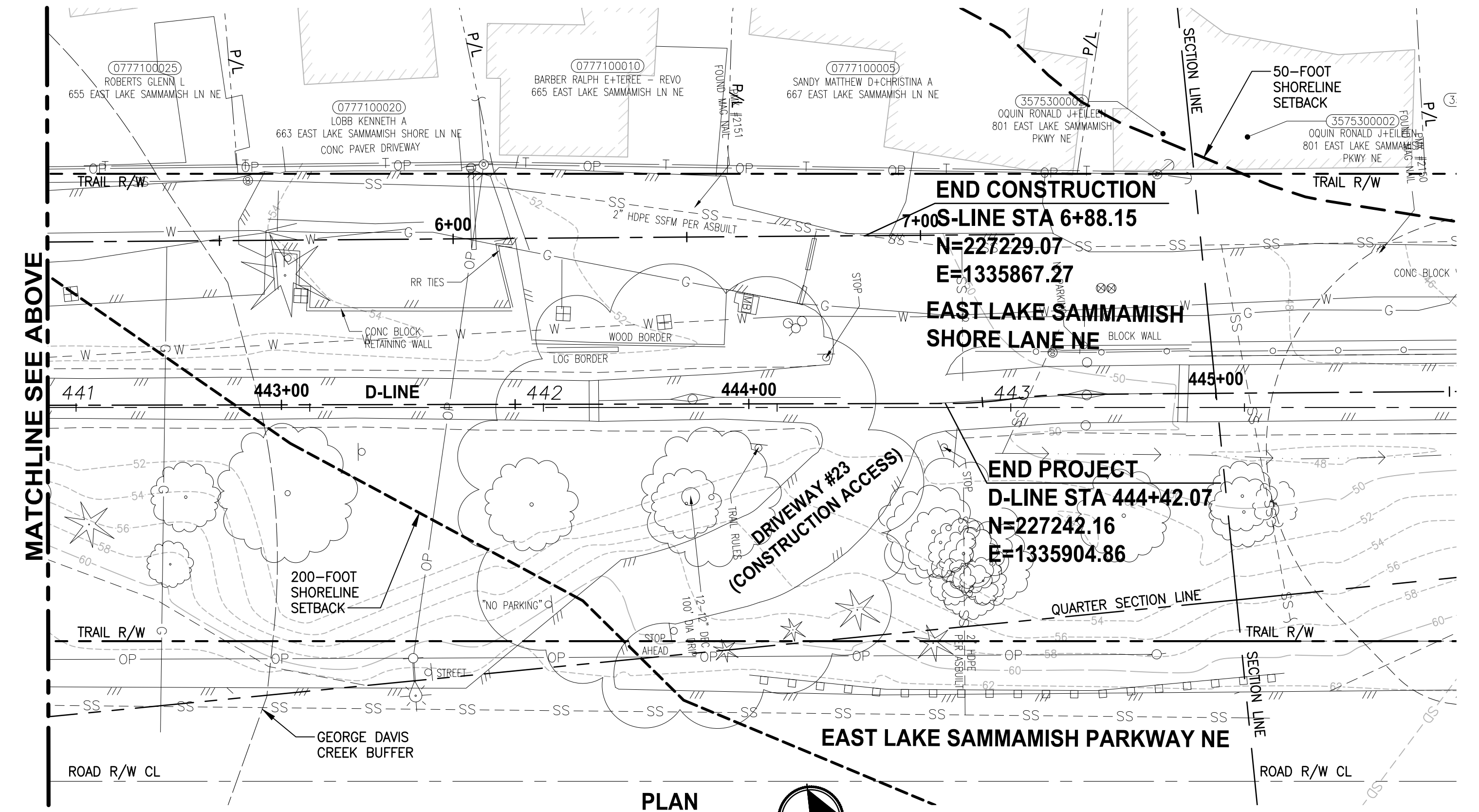
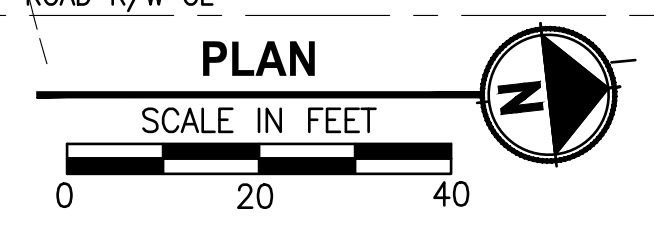
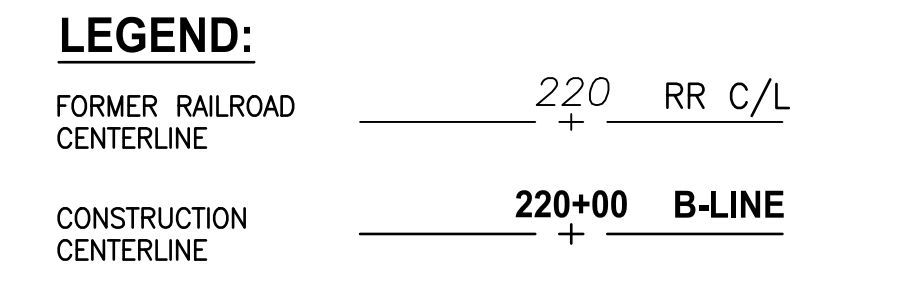
DATE
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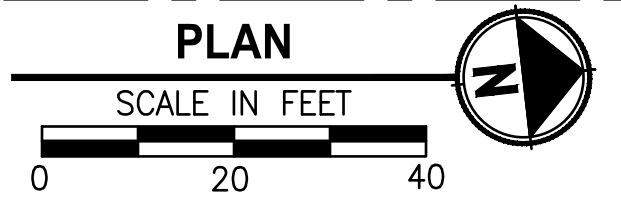


MATCHLINE SEE BELOW

- GENERAL NOTES:**
- SEE SHEET G3 FOR SYMBOL AND LINE LEGEND.
 - THE RAIL ROAD CENTERLINE (RR CL) & R/W LINES SHOWN IS BASED ON THE RIGHT OF WAY DRAWINGS PROVIDED BY KING COUNTY, DATED 1998, UNLESS OTHERWISE NOTED.
 - OUTLINES FOR BUILDING STRUCTURES SHOWN ARE BASED ON GIS AND AERIAL PHOTOS, DATED 2016.
 - NOT ALL HEDGES AND ARBORVITAE ARE INCLUDED IN THE SURVEY.
 - UTILITY INFORMATION IS BASED ON AVAILABLE RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES. POTHOLING INFORMATION HAS NOT BEEN INCORPORATED.
 - MODIFICATIONS WERE DONE TO THE RIGHT OF WAY LIMITS PER SUPPLEMENTAL RECORD DOCUMENTATION AS PROVIDED BY KC.
 - PARCEL LINES WERE UPDATED PER GIS INFORMATION PROVIDED BY COUNTY, DATED 2016.



MATCHLINE SEE ABOVE



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FILE NAME: BL1521075P19T03EX-01_GDD
 DRAWN: B. PURGANAN
 CHECKED: Y. HO
 APPROVED: C. BUITRAGO
 DATE: FEBRUARY 2026

Parametrix
 719 2nd Avenue, Suite 200 • Seattle, WA 98104
 Ph: 206.394.3700

PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL GEORGE DAVIS CREEK CULVERT REPLACEMENTS
 SAMMAMISH, WA

EXISTING CONDITIONS PLAN

SHEET NO.
5 OF 35

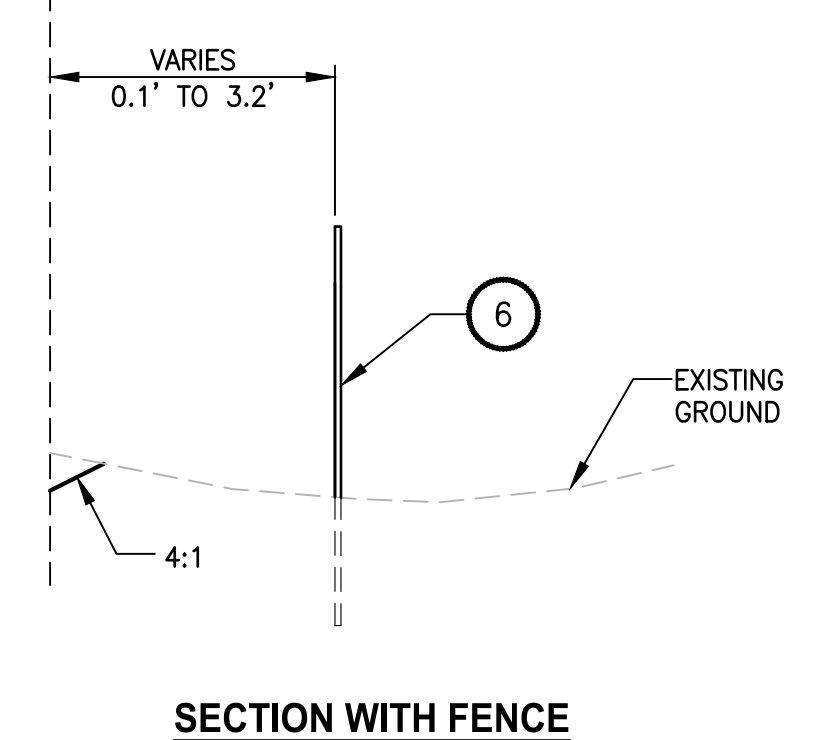
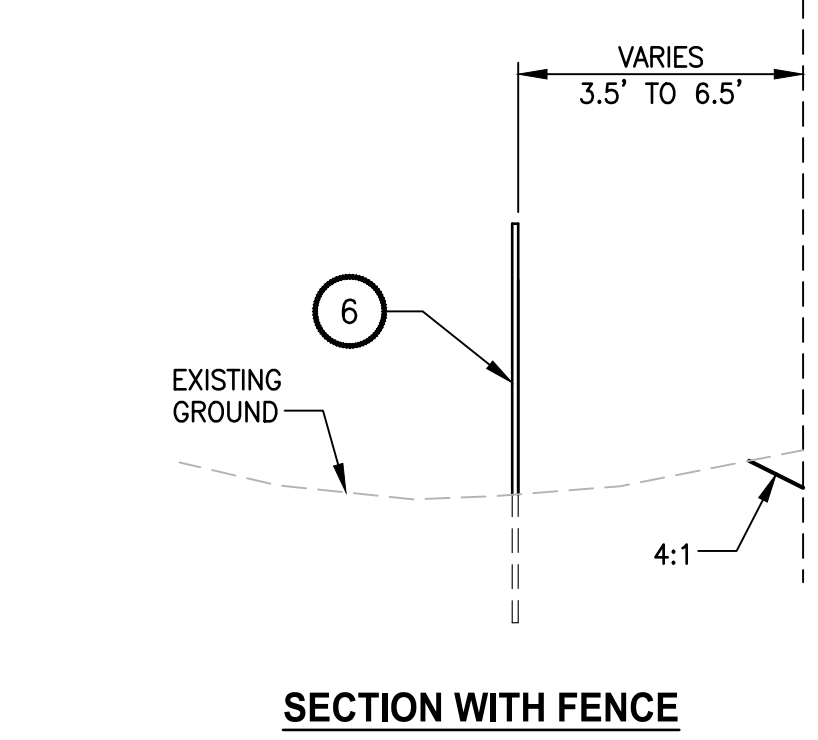
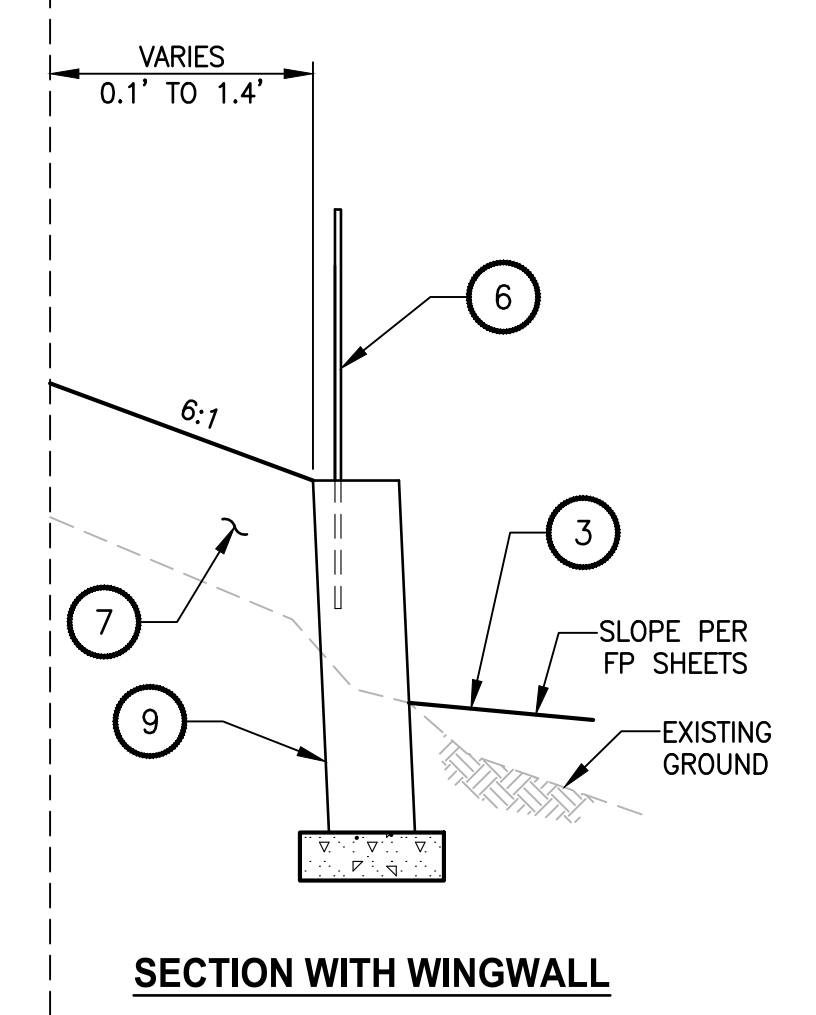
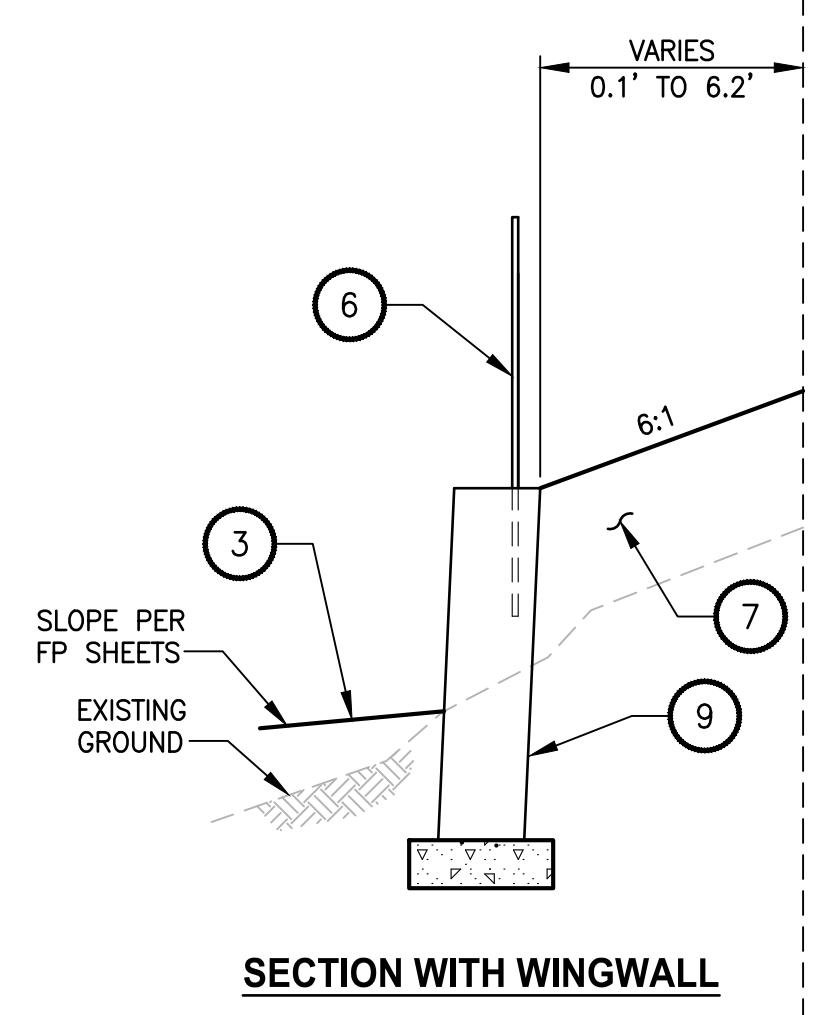
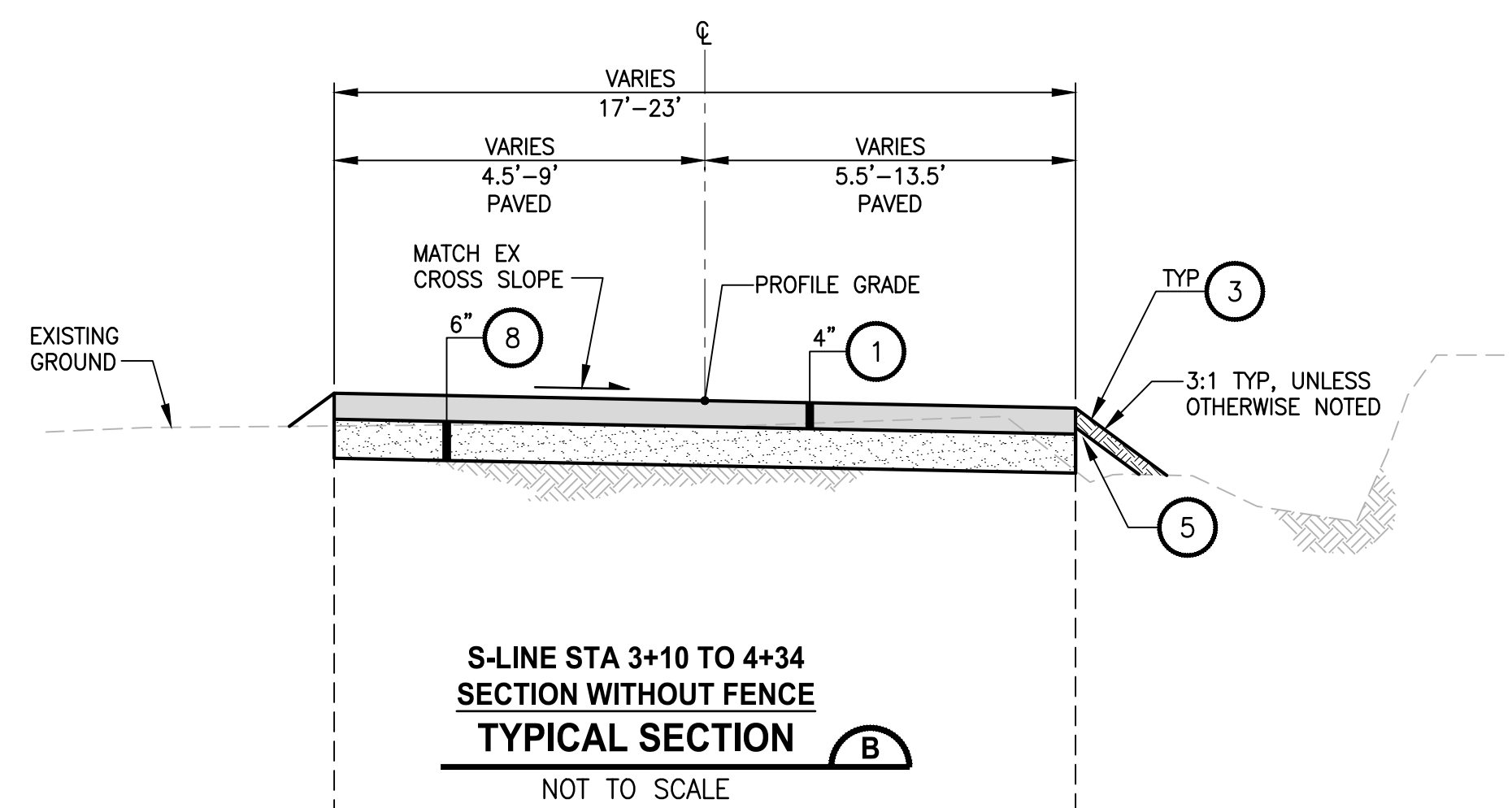
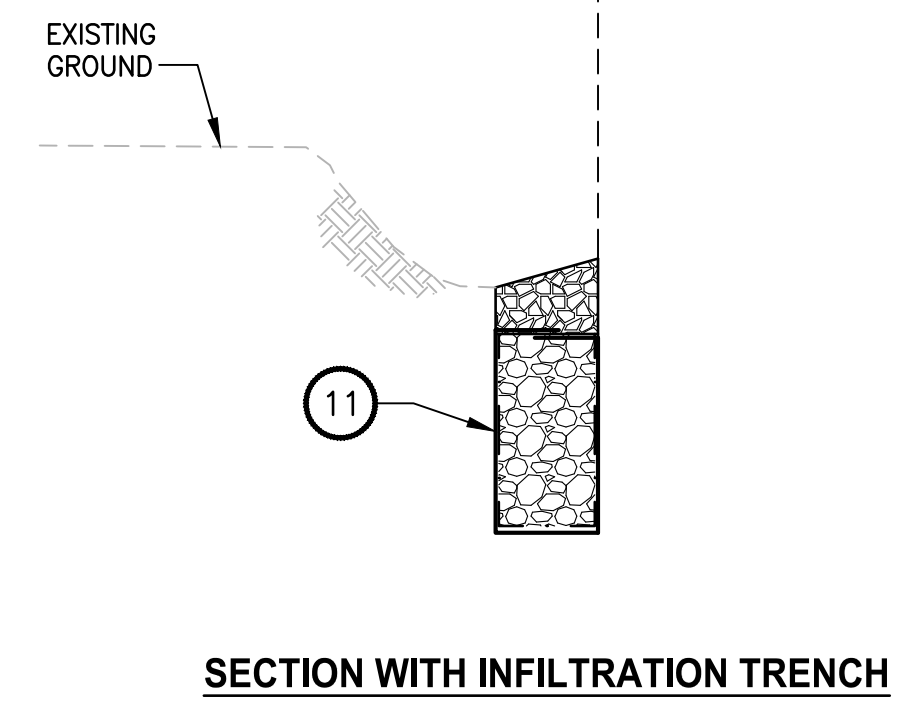
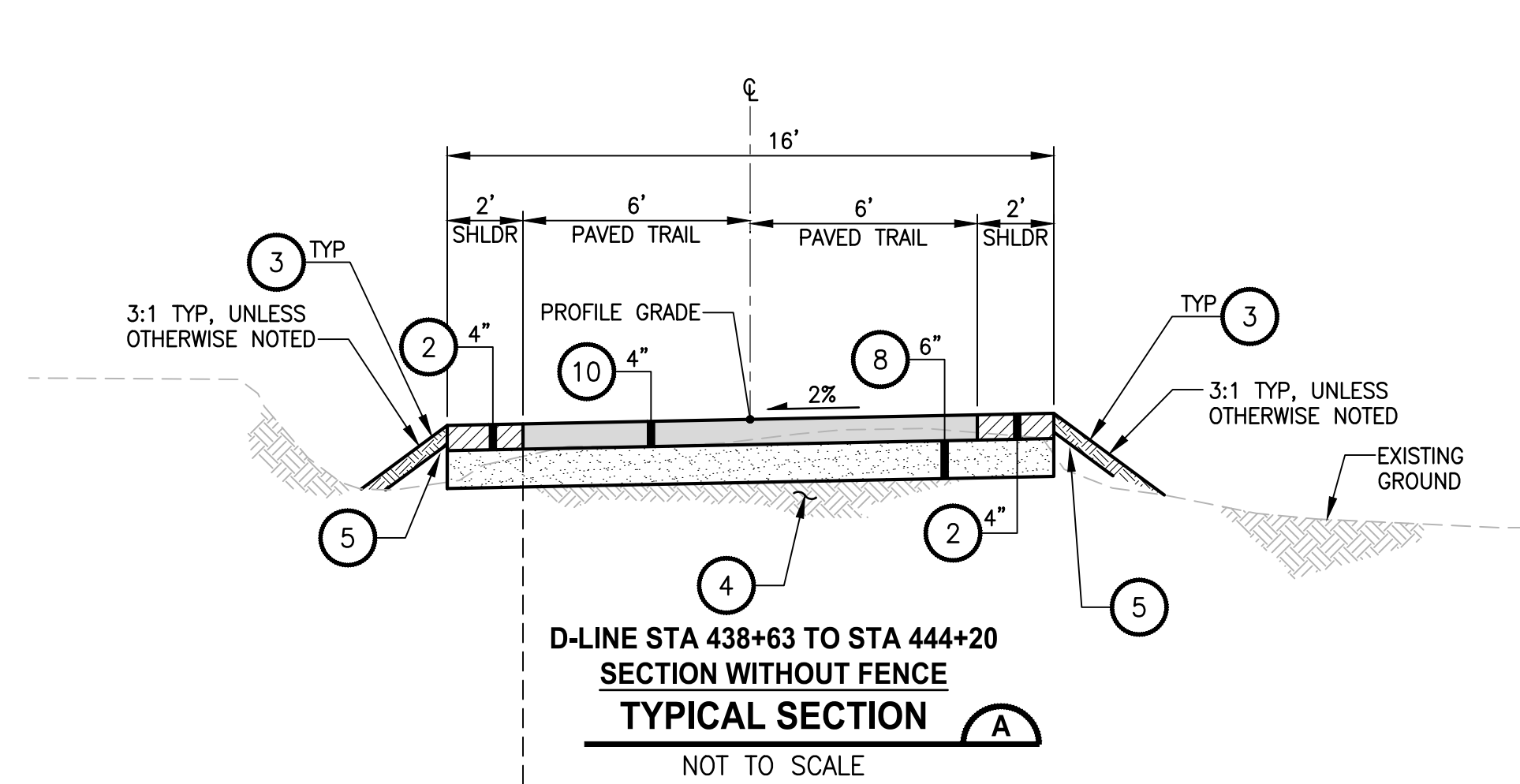
EX1

Conformed Set

LAYOUT: CSI
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CONSTRUCTION NOTES:

- 1 HMA CL. 1/2" PG 58H-22.
- 2 5/8" MINUS CRUSHED LEDGE ROCK, 100% FRACTURED. SEE SPECIAL PROVISIONS FOR SPECIFICATIONS.
- 3 SEE SLOPE RESTORATION DETAILS ON LA SHEETS.
- 4 EXISTING BALLAST BASE.
- 5 SELECT BORROW INCL. HAUL.
- 6 4-FOOT COATED CHAIN LINK FENCE. SEE AL PLANS FOR LOCATIONS AND SEE DETAILS ON SHEET MD1.
- 7 GRAVEL BACKFILL FOR WALL.
- 8 CRUSHED SURFACING BASE COURSE.
- 9 WING WALL, SEE FP SHEETS FOR PROFILE AND DETAILS.
- 10 HMA CL. 3/8" PG 58H-22.
- 11 INFILTRATION TRENCH. SEE AL SHEETS FOR INFILTRATION TRENCH LOCATIONS AND DETAIL 1 ON SHEET MD4.



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REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			B. PURGANAN
			Y. HO
			C. BUITRAGO

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FILE NAME: BL1521075P19T03CS-01_GDC
 JOB No: 554-1521-075 P28 T04
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 Ph: 206.394.3700

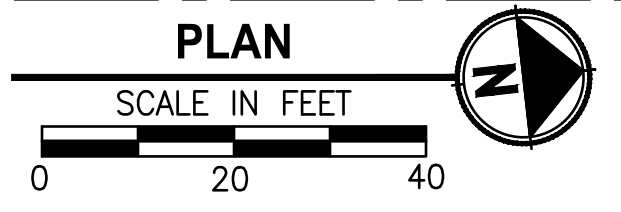
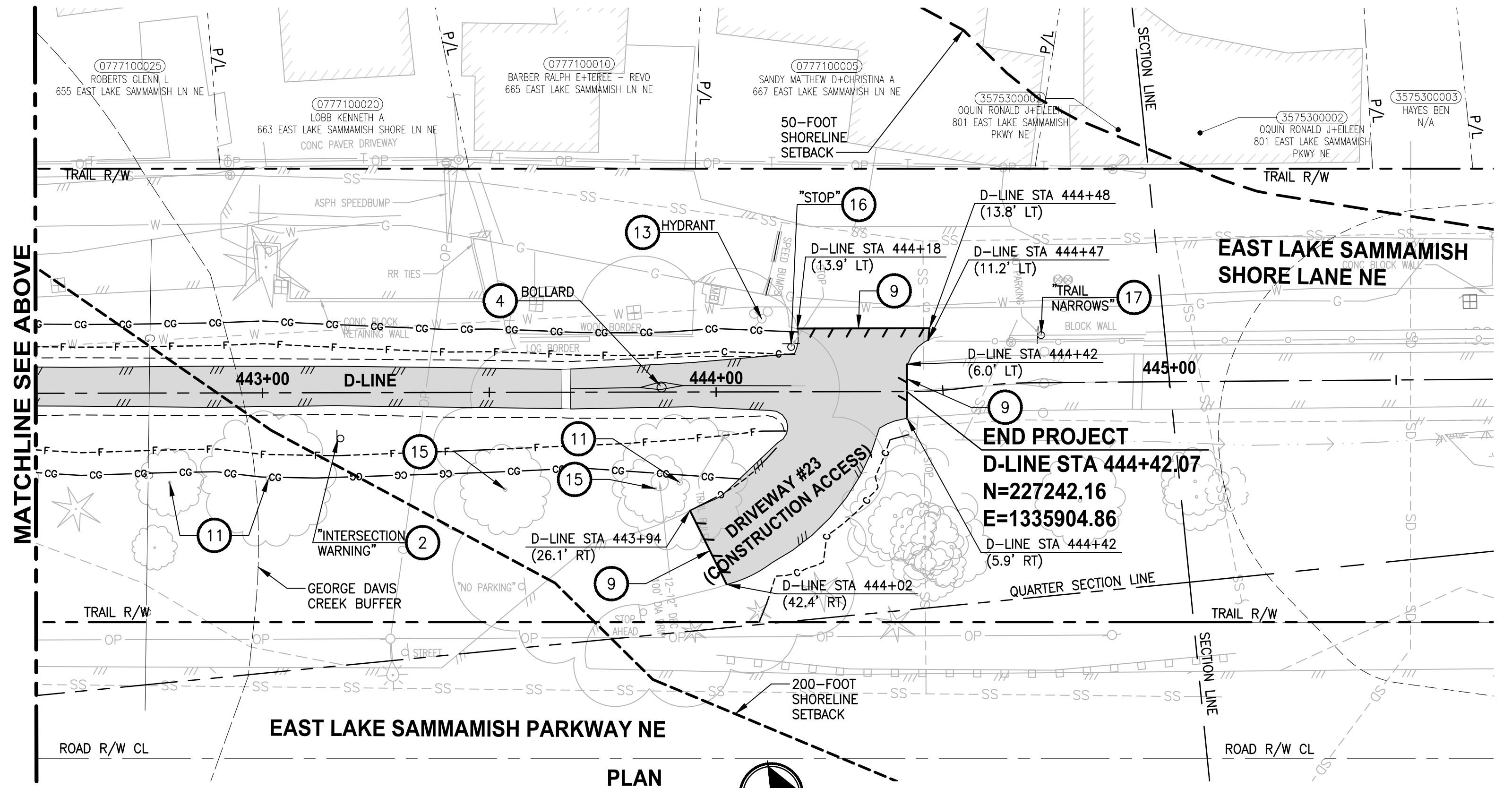
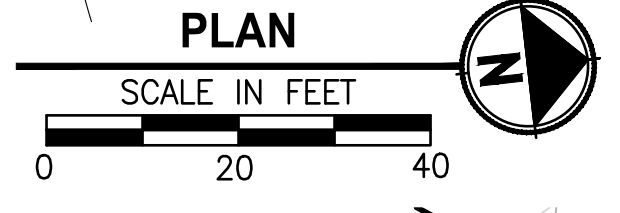
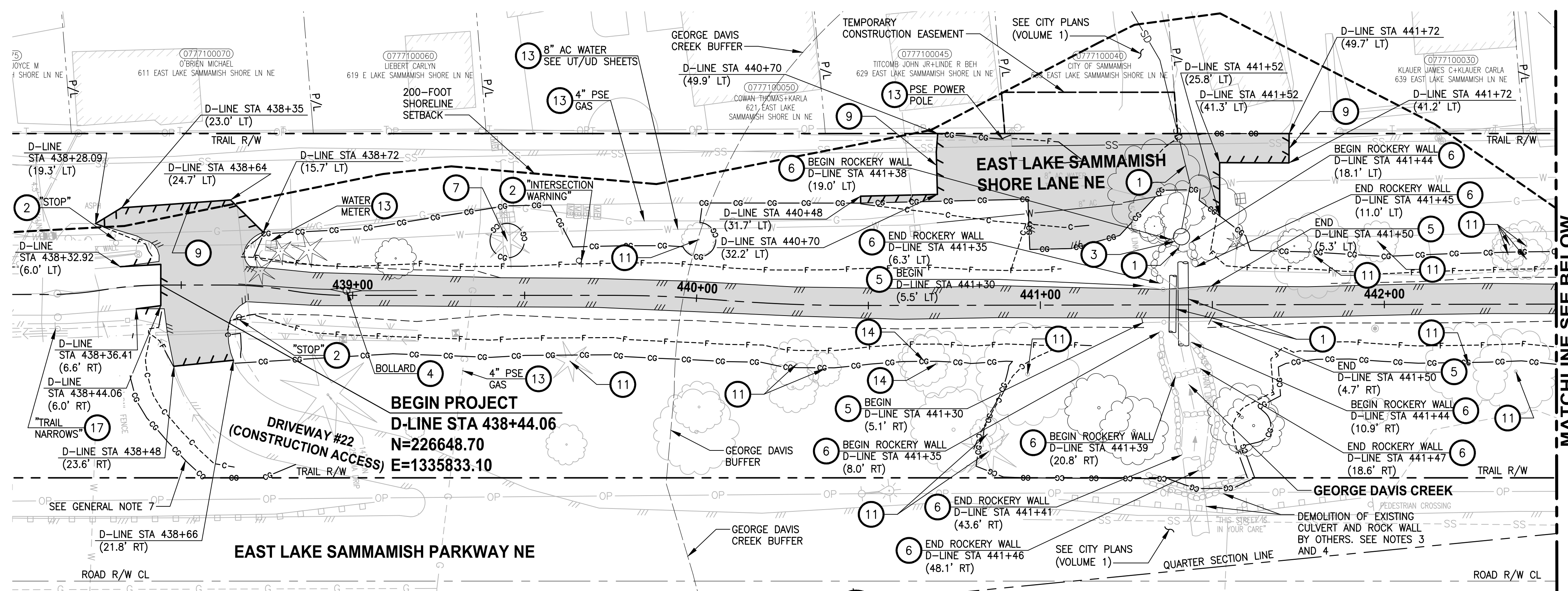
PROJECT NAME
**EAST LAKE SAMMAMISH
 MASTER PLAN TRAIL
 GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
 SAMMAMISH, WA

TYPICAL CROSS SECTIONS

SHEET NO.
6 OF 35

CS1

LAYOUT: SP1
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SITE PREPARATION NOTES:

- 1 REMOVE AND DISPOSE CULVERT PIPE.
- 2 REMOVE AND SALVAGE SIGN AND POST. SEE NEW SIGN LOCATIONS ON AL SHEETS.
- 3 REMOVE DRAINAGE STRUCTURE/MANHOLE.
- 4 REMOVAL OF STRUCTURE AND OBSTRUCTION.
- 5 REMOVE AND DISPOSE CHAIN LINK FENCE.
- 6 REMOVAL OF ROCKERY WALL.
- 7 RETAIN TREE WITHIN CLEARING AND GRUBBING LIMITS PER ARBORISTS' ASSESSMENT.
- 8 NOT USED.
- 9 SAWCUT AND REMOVE PAVEMENT.
- 10 NOT USED.
- 11 PRESERVE AND MONITOR TREE. IF TREE REMOVAL IS DEEMED NECESSARY BY THE PROJECT REPRESENTATIVE AND ARBORIST, TREE SHALL BE FLAGGED PRIOR TO REMOVAL.
- 12 NOT USED.
- 13 PROTECT EXISTING UTILITY.
- 14 TREE PRUNING. REMOVE ALL BRANCHES AND LEAVE 18" TALL TRUNK AS HABITAT SNAG.
- 15 REMOVE DEAD TREE.
- 16 PROTECT EXISTING SIGN AND POST DURING CONSTRUCTION.
- 17 REMOVE AND DISPOSE SIGN AND POST.

GENERAL NOTES:

1. SEE UT SHEETS FOR EXISTING UTILITIES, UTILITY RELOCATION AND ADJUSTMENTS.
2. SEE TE SHEETS FOR EROSION CONTROL AND OTHER TEMPORARY CONSTRUCTION MEASURES.
3. CONTRACTOR SHALL COORDINATE WORK PERFORMED BY OTHERS. SEE SHEET TE1 FOR CONSTRUCTION COORDINATION NOTES.
4. DEMOLITION AND STREAM CONSTRUCTION ON PARCEL 077100040 AND EAST LAKE SAMMAMISH PARKWAY CULVERT REPLACEMENT ARE BEING CONSTRUCTED BY CITY OF SAMMAMISH UNDER A SEPARATE PROJECT. CONTRACTOR SHALL CONFIRM THE HOUSE IS UNOCCUPIED PRIOR TO DISCONNECTING WATER SERVICE.
5. SEE PV SHEET FOR PAVEMENT PLAN AND FOR AREAS TO BE PLANED AND PAVED.
6. REMOVE TREE WITHIN CLEARING AND GRUBBING LIMITS. CONTRACTOR TO CONSULT PROJECT REPRESENTATIVE BEFORE TREE REMOVAL IS PERFORMED TO DETERMINE WHICH TREES AND BRANCHES ARE TO BE SALVAGED AND RE-USED AS HABITAT LOGS, BRUSH PILE, LARGE WOODY MATERIAL, AND SLASH AS SHOWN IN THE FP AND LA SHEETS. EFFORT IS PART OF CLEARING AND GRUBBING PAY ITEM.
7. CONTRACTOR SHALL STAKE LIMITS OF CLEARING AND GRUBBING AND APPROVAL BY THE ENGINEER BEFORE PROCEEDING WITH WORK TO CONFIRM CLEARING AND GRUBBING WILL NOT IMPACT EXISTING TREES IN THE AREA.

LEGEND:

- REMOVE ASPHALT PAVEMENT
- REMOVE TREE WITHIN CLEARING AND GRUBBING LIMITS



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REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			B. PURGANAN
			Y. HO
			C. BUITRAGO

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
 FILE NAME: BL1521075P19T03SP-01_GDD
 JOB No.: S54-1521-075 P28 T04
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 Ph: 206.394.3700

PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL GEORGE DAVIS CREEK CULVERT REPLACEMENTS
 SAMMAMISH, WA

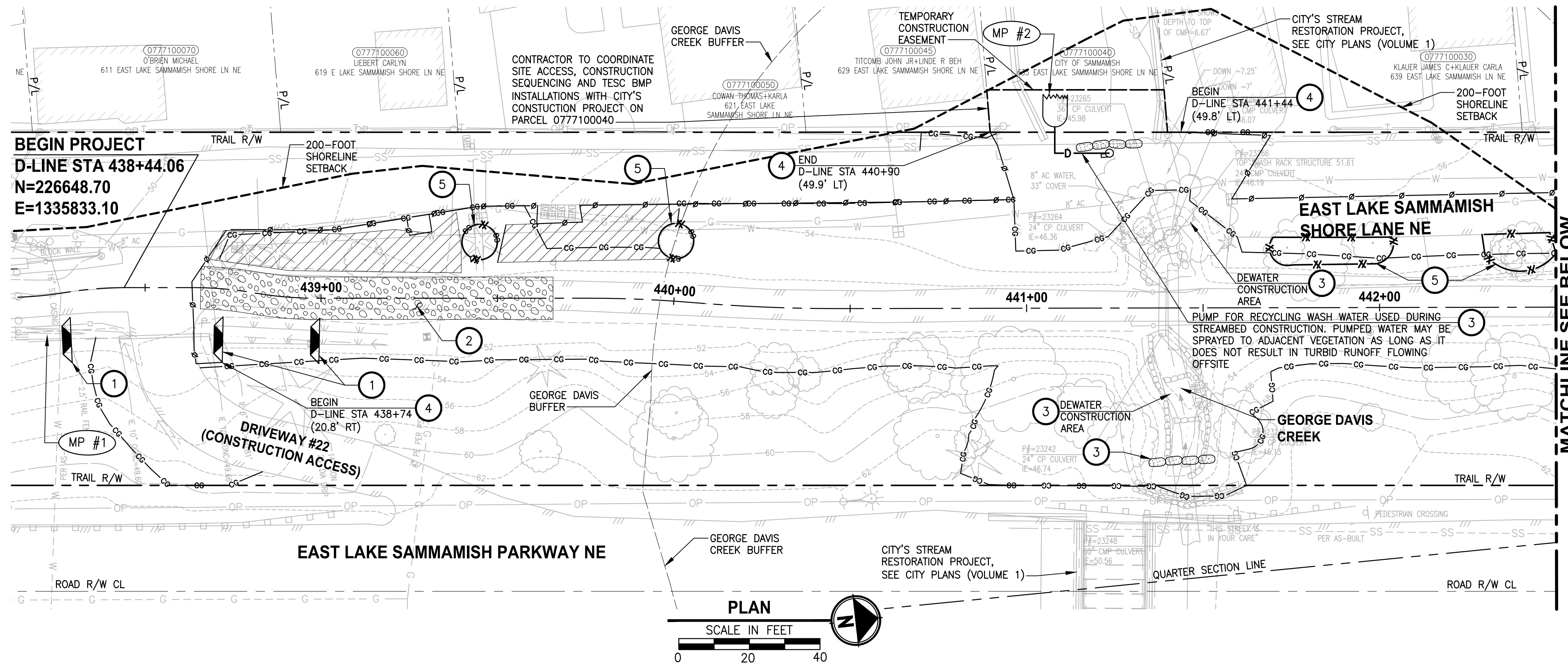
SITE PREPARATION PLAN

SHEET NO.
7 OF 35

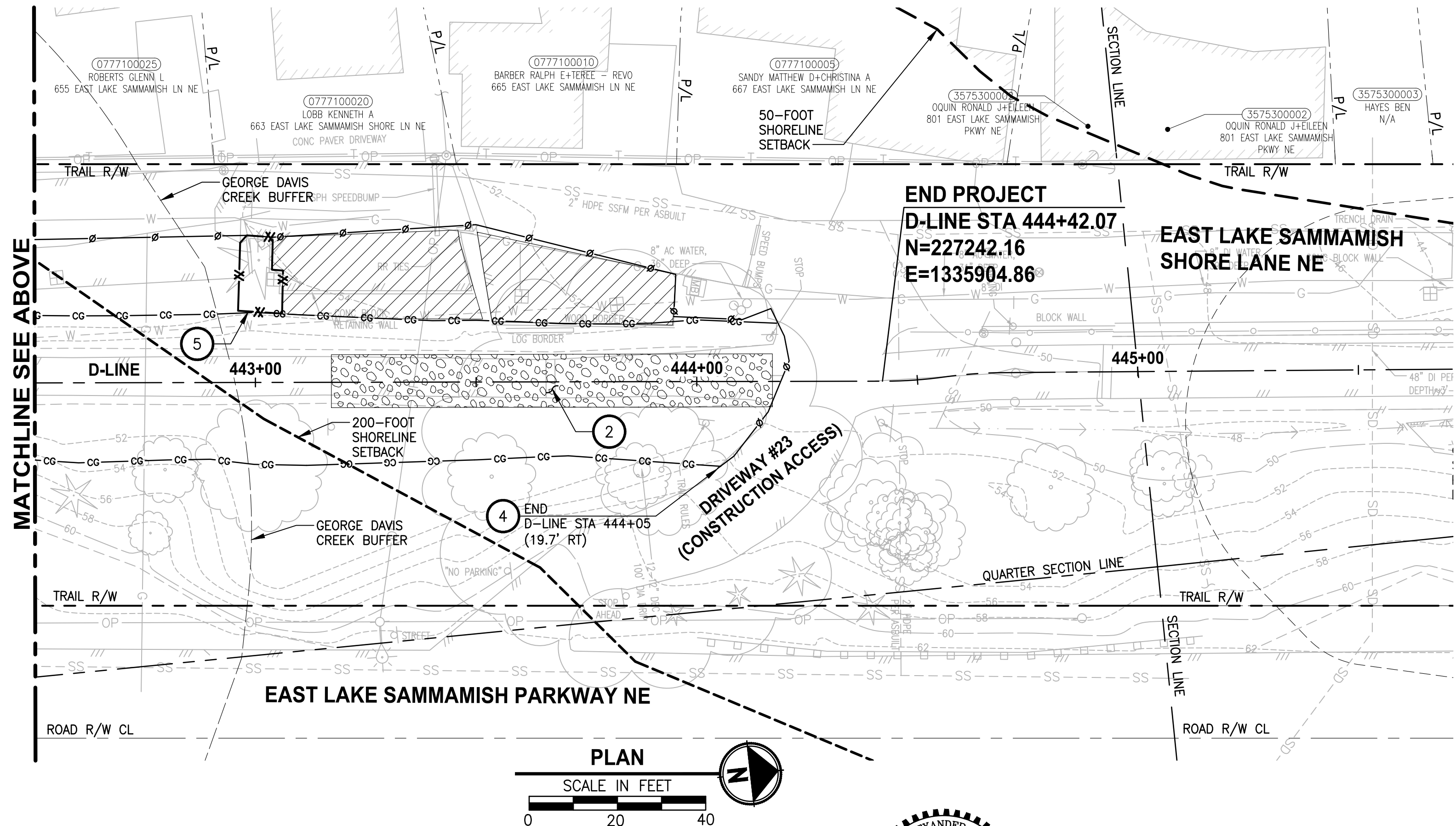
SP1

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LAYOUT: TE1
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MATCHLINE SEE BELOW



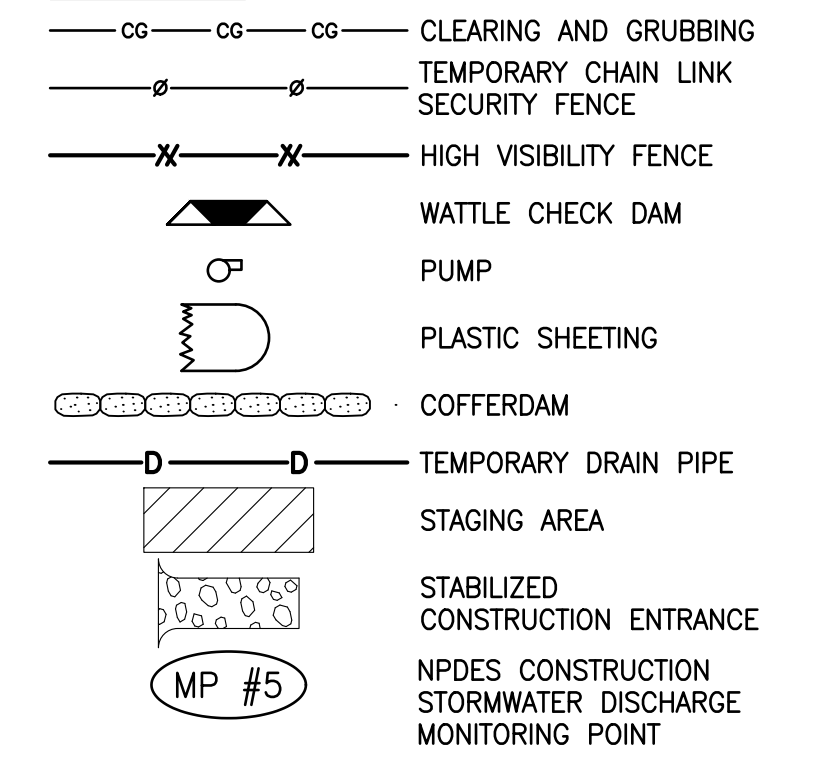
CONSTRUCTION COORDINATION NOTES:

1. STREAM CONSTRUCTION ON PARCEL 0777100040 TO THE WEST AND CULVERT REPLACEMENT AT EAST LAKE SAMMAMISH PARKWAY ARE PART OF THIS CONTRACT AND WITH A SEPARATE PERMIT. SEE CITY PLANS (VOLUME 1) FOR WORK, SEQUENCING, SHARED STAGING AREAS, SHARED SITE ACCESSSES, TEMPORARY STREAM DIVERSION AND STREAM COMMISSIONING TO ENSURE WORK IS COMPLETED AND ACCEPTED WITHIN THE IN-WATER WORK PERIOD APPROVED IN THE HPA.
2. CONTRACTOR SHALL NOT PERFORM IN WATER WORK UNTIL FISH EXCLUSION IS COMPLETED AND STREAM BYPASS IS FUNCTIONING PER CITY PLANS (VOLUME 1).
3. TEMPORARY STREAM DIVERSION ELEMENTS WITHIN KING COUNTY PROPERTY ARE NOT ANTICIPATED TO BE NEEDED. HOWEVER, THESE ELEMENTS OF THE TEMPORARY STREAM DIVERSION ARE INCLUDED IN THE PLANS FOR CONTRACTOR CONSIDERATION IF WORK ZONE SEPARATION IS NEEDED DURING CONSTRUCTION. TEMPORARY STREAM DIVERSION ELEMENTS DISPLAYED IN PLANS REPRESENT PROPOSED STREAM ALIGNMENT FOR VISUAL REFERENCE. CONTRACTOR SHALL INSTALL THE TSD PLAN AS APPROVED BY THE ENGINEER, SEE WSDOT STD SPECS AND SPECIAL PROVISIONS SECTION 8-31. SEE SHEET TD1 FOR TEMPORARY STREAM DIVERSION NOTES.
4. CONTRACTOR SHALL COMMISSION THE STREAM ON KING COUNTY PROPERTY AS APPROVED BY THE ENGINEER AS PART OF THE TEMPORARY STREAM DIVERSION PLAN. CONTRACTOR SHALL COORDINATE STREAM COMMISSIONING WITH THE CITY'S STREAM COMMISSIONING.

CONSTRUCTION NOTES:

- 1 CHECK DAMS ON CHANNELS, PER WSDOT STD PLAN I-50.20-02 AND SEE APPENDIX B OF SPECS. USE BIODEGRADABLE CHECK DAMS.
- 2 STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STD PLAN I-80.10-02 AND SEE APPENDIX B OF SPECS.
- 3 INSTALL TEMPORARY STREAM DIVERSION. SEE SHEET TD1, SEE WSDOT STD SPECS AND SPECIAL PROVISIONS SECTION 8-31 FOR DETAILS.
- 4 TEMPORARY CHAIN LINK SECURITY FENCE, PER SPECIAL PROVISIONS SECTION 8-12.
- 5 HIGH VISIBILITY FENCE, PER WSDOT STD PLAN I-10.10-01 AND SEE APPENDIX B OF SPECS.

LEGEND:



GENERAL NOTES:

1. CONSTRUCTION METHODS SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE HPA PERMIT AND CSWGP. SEE CONTRACT DOCUMENTS FOR PROJECT PERMITS.
2. CONTRACTOR SHALL PERFORM CONSTRUCTION STORMWATER MONITORING AND SAMPLING FOR PARAMETERS AS SPECIFIED IN CSWGP.
3. THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING DRAINAGE PATTERNS ARE MAINTAINED DURING AND AFTER CONSTRUCTION.
4. PRIVATE DRIVEWAYS ARE NOT AVAILABLE FOR CONSTRUCTION ACCESS.
5. SEE SPECIAL PROVISIONS FOR MAINTENANCE AND REMOVAL OF TESC BMPS.
6. SEE SP SHEETS FOR TREES TO BE REMOVED.
7. STAGING AREAS SHALL BE RESTORED TO EXISTING CONDITIONS. SEE CONSTRUCTION COORDINATION NOTES FOR ADDITIONAL NOTES REGARDING COORDINATION WITH CITY OF SAMMAMISH PLANS (VOLUME 1).

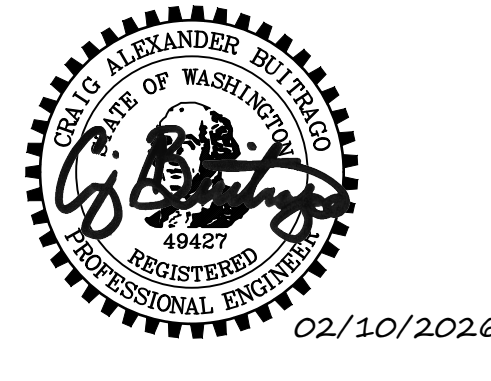


Know what's below.
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REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			B. PURGANAN
			Y. HO
			C. BUITRAGO

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PROJECT NAME
**EAST LAKE SAMMAMISH
 MASTER PLAN TRAIL
 GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
 SAMMAMISH, WA

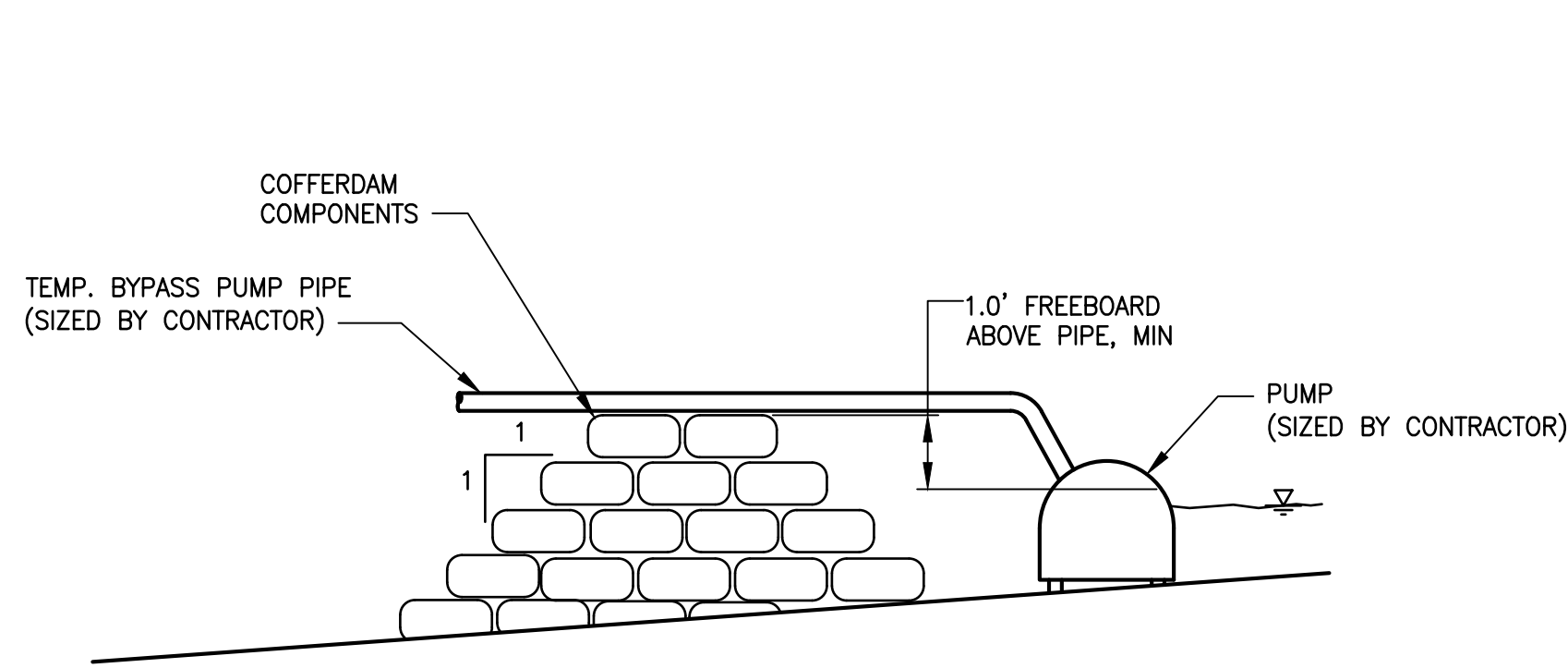
TESC PLAN

SHEET NO.
8 OF 35

TE1

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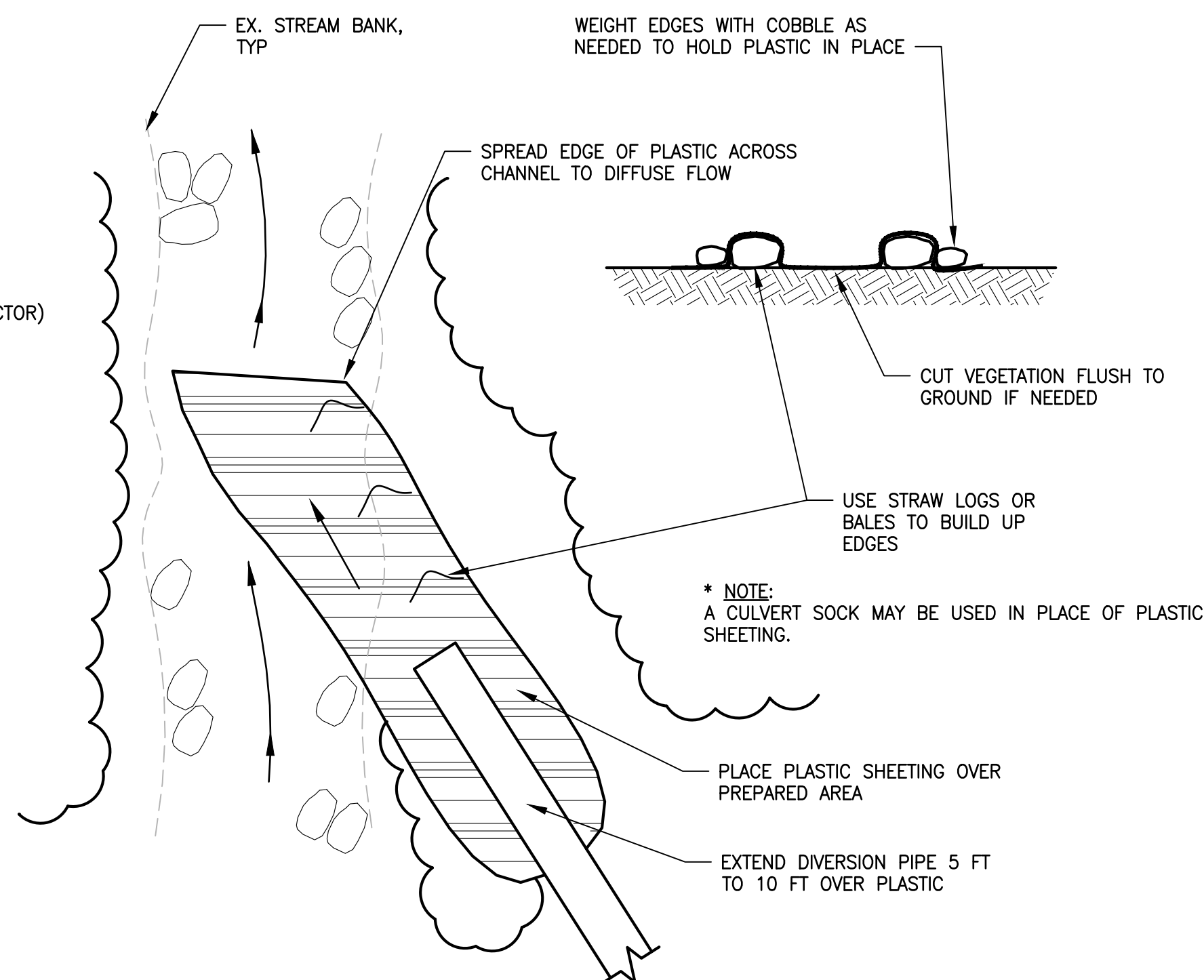


COFFERDAM NOTES:

1. COFFERDAMS SHALL BE CONSTRUCTED BY THE CONTRACTOR WITH WASHED DRAIN ROCK GRAVEL BAGS PER WSDOT STD. SPEC 9-03.12(4), WATER BAG DAM, PORT-A-DAM, OR OTHER MEANS APPROVED BY THE ENGINEER. GRAVEL BAGS SHALL BE CONSTRUCTED OF WOVEN SYNTHETIC FIBER.
2. THE HEIGHT AND WIDTH OF THE COFFERDAMS SHALL BE DETERMINED BY THE CONTRACTOR BASED ON THE WATER SURFACE ELEVATION AND CHANNEL SHAPE AT THE TIME OF CONSTRUCTION.
3. REMOVE LOOSE COBBLE AND BOULDERS FROM THE STREAMBED BEFORE PLACING COFFERDAM COMPONENTS.
4. EXTEND THE COFFERDAM ENDS UP THE BANKS OF THE CHANNEL AS NEEDED TO PREVENT EROSION FROM OCCURRING AROUND THE ENDS OF THE COFFERDAM.
5. COFFERDAM MATERIALS SHALL BE REMOVED FROM THE SITE AFTER CONSTRUCTION AND BECOME THE PROPERTY OF THE CONTRACTOR.

**COFFERDAM
DETAIL**

NOT TO SCALE



**PLASTIC SHEET DIVERSION
DETAIL**

NOT TO SCALE



DEWATER CONSTRUCTION AREA NOTES:

1. CONTRACTOR SHALL SUBMIT A DEWATERING PLAN FOR THE ENTIRE PROJECT TO THE ENGINEER FOR REVIEW AND APPROVAL WITH THE TEMPORARY STREAM DIVERSION PLAN, PER WSDOT STD SPECS AND SPECIAL PROVISIONS SECTION 8-31.
2. THE DEWATERING PLAN SHALL INCLUDE LOCATION FOR PUMPED WATER DISPOSAL. PUMPED WATER MAY BE SPRAYED OVER EXISTING VEGETATION OR CONNECTED TO TEMPORARY BYPASS (STREAM OR STORM DRAIN), HOWEVER IF PUMPED TO SURFACE WATER, SITE DISCHARGE WATER SHALL MEET TURBIDITY REQUIREMENTS OF THE CONSTRUCTION STORMWATER GENERAL PERMIT.
3. THE DEWATERING SYSTEM SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING.
4. DEWATERING COSTS FOR STREAM CONSTRUCTION SHALL BE INCIDENTAL TO BID ITEM TEMPORARY STREAM DIVERSION.

TEMPORARY STREAM DIVERSION NOTES:

1. CONTRACTOR SHALL SUBMIT THE TEMPORARY STREAM DIVERSION (TSD) PLAN TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE PER WSDOT STD SPECS AND SPECIAL PROVISIONS SECTION 8-31.
2. CONTRACTOR SHALL COORDINATE TEMPORARY STREAM DIVERSION WITH THE STREAM BYPASS SYSTEM IN THE CITY PLANS (VOLUME 1).
3. THE CITY PLANS (VOLUME 1) INCLUDE FISH EXCLUSION UPSTREAM AND DOWNSTREAM OF THE KING COUNTY PROJECT SITE, AND WILL INSTALL THE TEMPORARY STREAM BYPASS THAT WILL USE THE EMERGENCY OVERFLOW CONVEYANCE SYSTEM THAT DIVERTS FLOWS UPSTREAM OF EAST LAKE SAMMAMISH PARKWAY AND OUTFALLS TO THE LAKE NORTH OF THE KING COUNTY PROJECT SITE. KING COUNTY STAFF WILL PERFORM FISH EXCLUSION OF STREAM WITHIN KING COUNTY PROPERTY, AS NECESSARY.
4. THE CONTRACTOR SHALL FURNISH WATER NEEDED DURING STREAMBED CONSTRUCTION FOR WASHING STREAMBED SEDIMENTS INTO EACH LIFT OF STREAMBED MATERIAL PLACED TO SEAL THE BED, SEE FP SHEETS FOR DETAILS.
5. METHODS FOR STREAM (REWATERING) COMMISSIONING SHALL BE DETAILED IN THE TEMPORARY STREAM DIVERSION PLAN, PER WSDOT STD SPECS AND SPECIAL PROVISION 8-31. BECAUSE THE STREAM BYPASS IN THE CITY PLANS (VOLUME 1) WILL DIRECT FLOW AWAY FROM THE PROJECT SITE, THE CONTRACTOR SHALL FURNISH WATER NEEDED DURING STREAMBED CONSTRUCTION PER CONSTRUCTION NOTES IN FP SHEETS. WATER MAY BE RE-USED OR RECYCLED DURING STREAMBED CONSTRUCTION, BUT WATER EXCEEDING BACKGROUND STREAM TURBIDITY BENCHMARKS MAY NOT BE DISCHARGED DOWNSTREAM, PER THE TSD PLAN AND APPROVED HPA.
6. STREAM COMMISSIONING SHALL BE COORDINATED WITH THE CITY'S PROJECT AT LEAST 10 DAYS BEFORE THAT WORK ELEMENT IS TO BEGIN. THE PLAN SHALL BE DISCUSSED AT A CONSTRUCTION MEETING WITH THE PROJECT REPRESENTATIVE.
7. THE CONTRACTOR SHALL COMPLETE ALL WORK BELOW GEORGE DAVIS CREEK ORDINARY HIGH WATER MARK WITHIN THE IN-WATER WORK PERIOD IN THE APPROVED HPA.
8. STREAM FLOW RATES ARE INCLUDED IN A TABLE BELOW AS REFERENCE TO THE CONTRACTOR, BUT A PUMP FOR THE LOW FLOW OR OTHER MAY NOT BE NECESSARY BECAUSE THE CITY'S PROJECT WILL INSTALL A TEMPORARY STREAM BYPASS THAT WILL DIVERT FLOWS AROUND THE PROJECT SITE.

TEMPORARY BYPASS FLOW RATES * FISH PASSAGE CULVERTS			
STA	STREAM	LOW FLOW (CFS)	FLOW (GPM)
441+40	GEORGE DAVIS CREEK	0.8	359
		1.01 - YR FLOW	4,488

* SEE NOTE 8



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PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
SAMMAMISH, WA

Conformed Set

TESC DETAILS

SHEET NO.
9 OF 35

TD1

REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			DRAWN B. PURGANAN
			CHECKED Y. HO
			APPROVED C. BUITRAGO

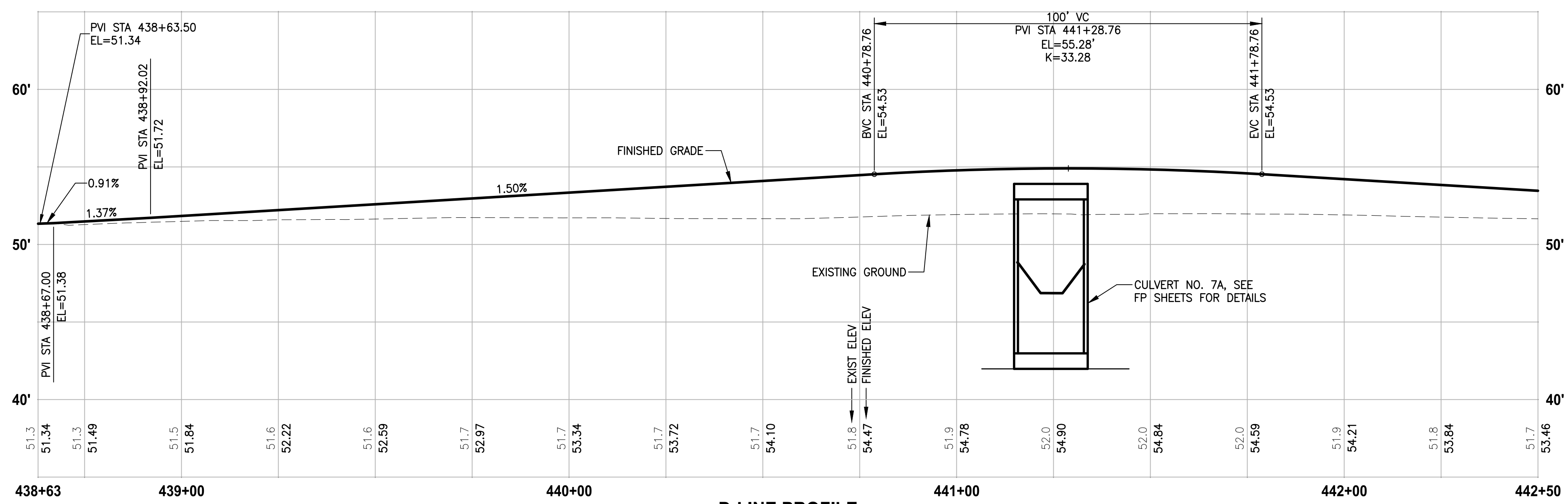
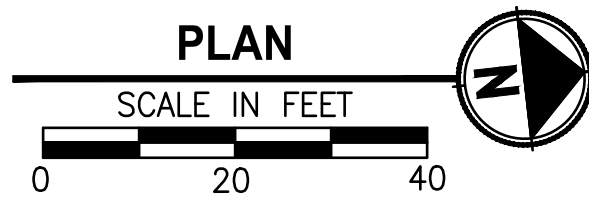
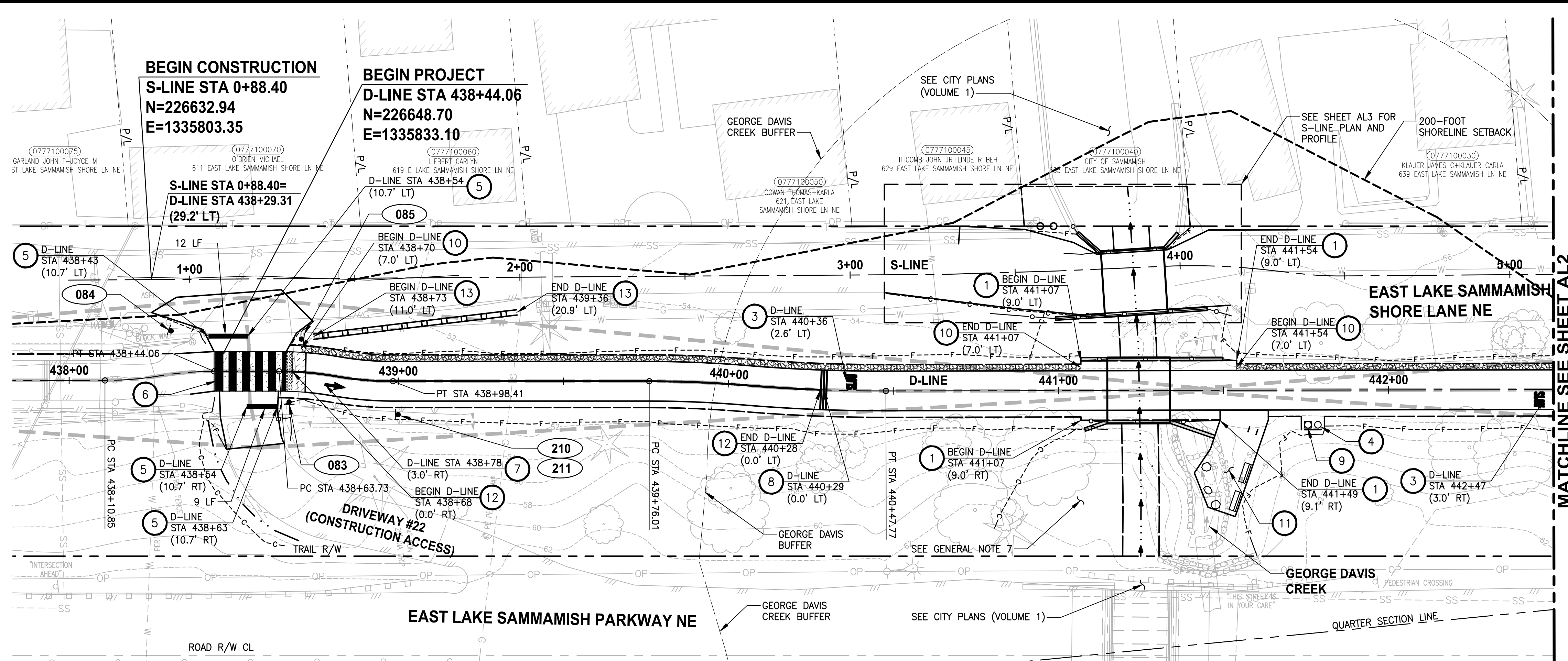
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FILE NAME
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JOB No.
554-1521-075 P28 T04

DATE
FEBRUARY 2026

LAYOUT: AL1
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 PLOTTED BY: purgubut DATE: Tuesday, February 10, 2026 6:59:55 AM



D-LINE PROFILE
 HORIZ: 1"=20'
 VERT: 1"=5'

- CIVIL CONSTRUCTION NOTES:**
1. INSTALL 4-FOOT COATED CHAIN LINK FENCE. SEE DETAILS ON SHEET MD1.
 2. INSTALL 4-FOOT COATED CHAIN LINK SINGLE (SWING) GATE PER WSDOT STD PLAN L-30.10-02.
 3. INSTALL PAINT SYMBOL, SEE DETAIL 1 ON SHEET MD5.
 4. INSTALL PET WASTE STATION. SEE APPENDIX B OF SPECIFICATIONS FOR DETAILS.
 5. INSTALL STOP BAR PER CITY OF SAMMAMISH STANDARD DETAIL T-36.
 6. CROSSWALK MARKING, SEE DETAIL 3 ON SHEET MD4.
 7. PAINTED ARROW, SEE DETAIL 1 ON SHEET MD5.
 8. THERMOPLASTIC WARNING BAND, SEE DETAIL 3 ON SHEET MD5.
 9. INSTALL TRASH RECEPTACLE, SEE APPENDIX B OF SPECIFICATIONS.
 10. INFILTRATION TRENCH SEE DETAIL 1 ON SHEET MD4.
 11. INSTALL REST STOP, SEE DETAILS ON SHEET MD2.
 12. INSTALL 4" WIDTH SOLID YELLOW PAINT LINE.
 13. INSTALL BOLLARD AND RAIL FENCE, SEE DETAILS ON SHEET MD3.

- LEGEND:**
- CHAIN LINK FENCE
 - SIGN, SEE SHEET AL2 FOR SIGN SCHEDULE.
 - 14.5' X 295' SIGHT DISTANCE TRIANGLE FOR STOP CONTROLLED INTERSECTION ON DRIVEWAYS PER COS STD FIG 02-19A

- GENERAL NOTES:**
1. SEE UT SHEETS FOR UTILITY RELOCATION/ADJUSTMENTS.
 2. EXISTING FEATURES/TREES CALLED OUT TO BE REMOVED ON SP SHEETS ARE NOT SHOWN ON AL SHEETS FOR CLARITY PURPOSES.
 3. SEE LA SHEETS FOR RESTORATION ALONG TRAIL SIDE OR ALONG BOTTOM OF WALLS.
 4. FOR SIGN REMOVAL, SEE SP SHEETS.
 5. STATION CALLOUTS ARE MEASURED TO THE CENTER OF WARNING BAND.
 6. SEE DP SHEETS FOR DRIVEWAY PLAN AND PROFILE.
 7. SEE FP SHEETS FOR STREAM AND CULVERT DESIGN.



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REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			B. PURGANAN
			Y. HO
			C. BUITRAGO

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY

FILE NAME: BL1521075P19T03AL-01_GDD
 JOB No.: 54-1521-075 P28 T04
 DATE: FEBRUARY 2026



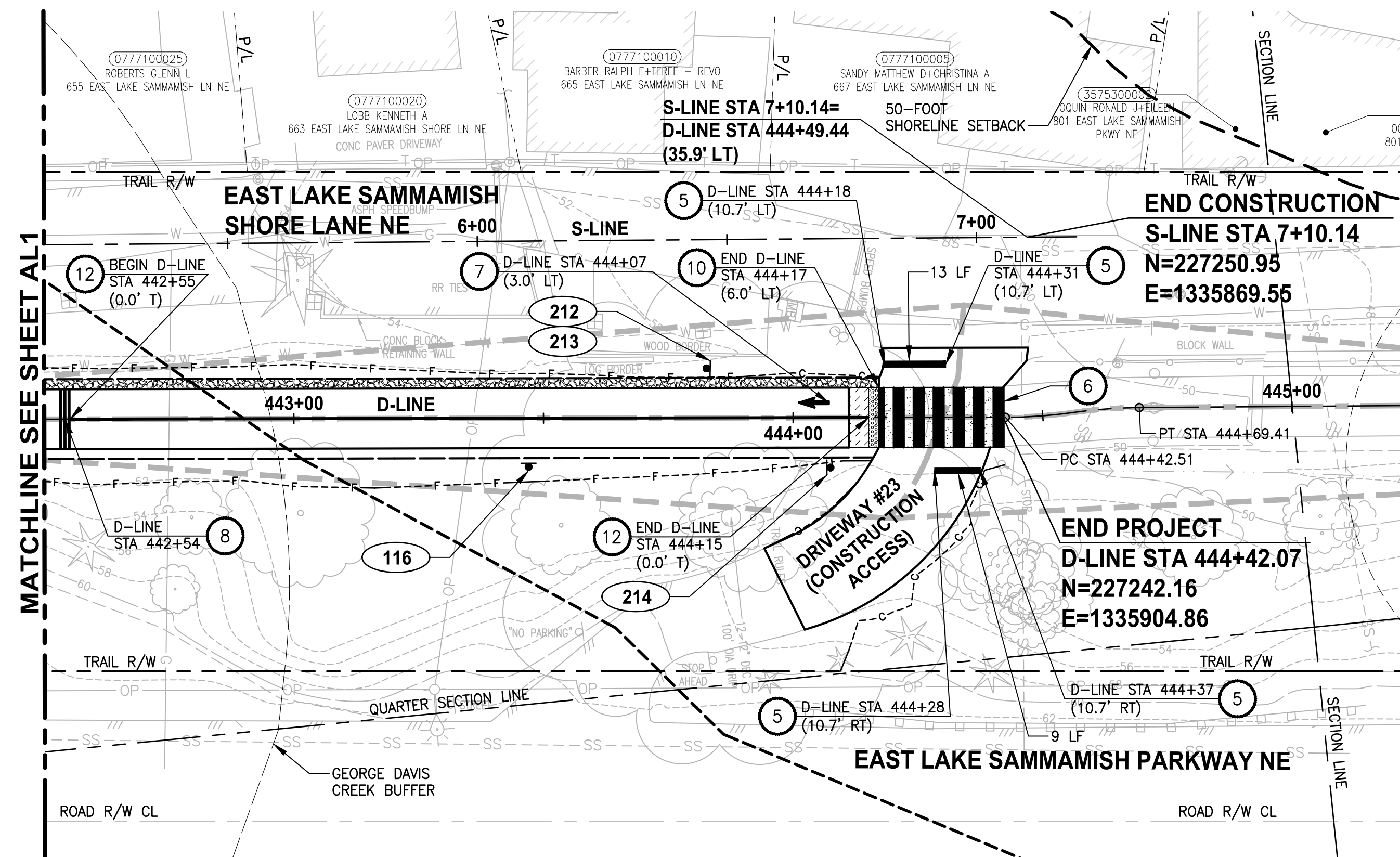
Parametrix
 719 2nd Avenue, Suite 200 • Seattle, WA 98104
 Ph: 206.394.3700

PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL GEORGE DAVIS CREEK CULVERT REPLACEMENTS
 SAMMAMISH, WA

TRAIL PLAN AND PROFILE

SHEET NO.
 10 OF 35
AL1

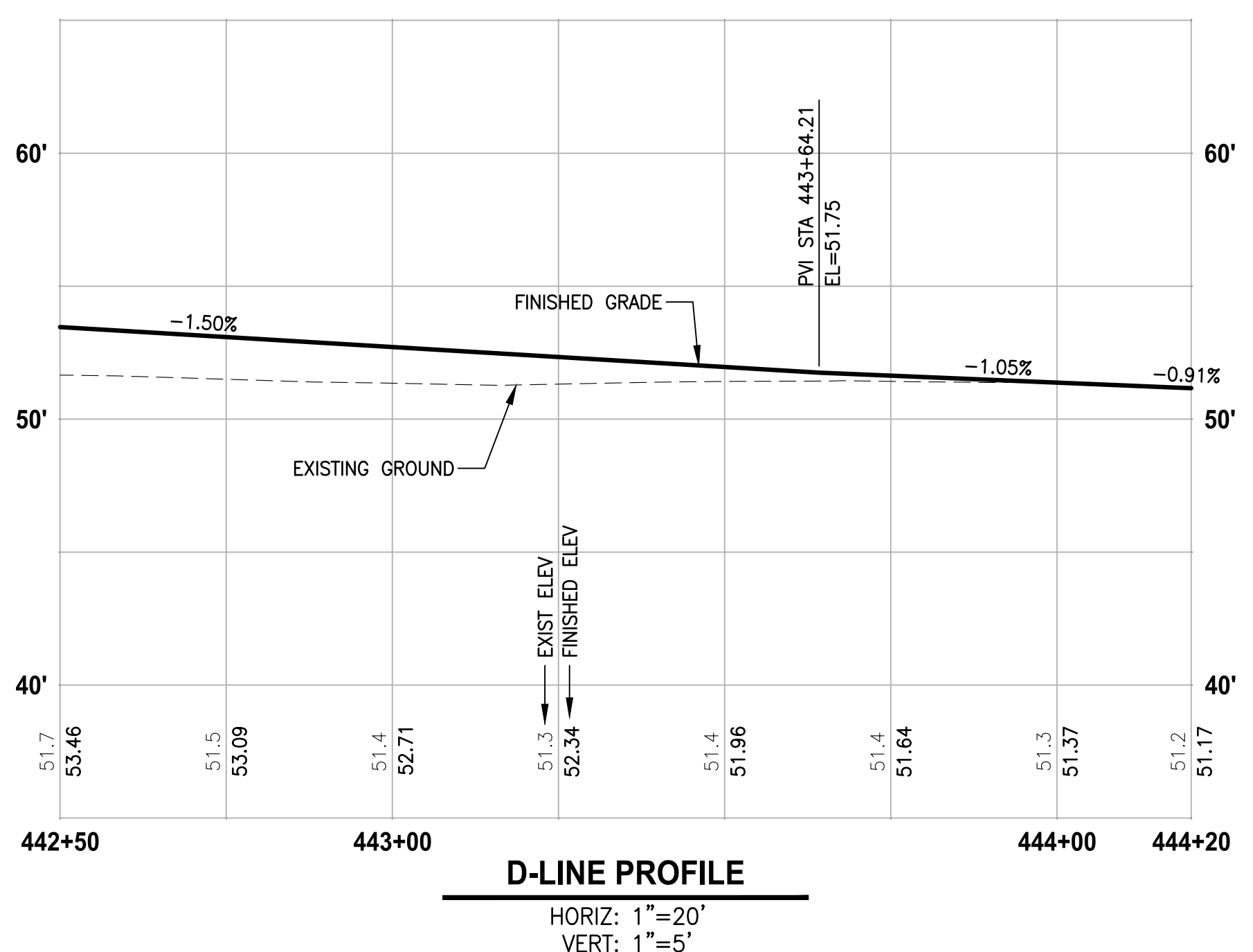
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 PLOTTED BY: purgabut DATE: Tuesday, February 10, 2026 7:00:04 AM



- CIVIL CONSTRUCTION NOTES:**
- 1 INSTALL 4-FOOT COATED CHAIN LINK FENCE. SEE DETAILS ON SHEET MD1.
 - 2 INSTALL 4-FOOT COATED CHAIN LINK SINGLE (SWING) GATE PER WSDOT STD PLAN L-30.10-02.
 - 3 INSTALL PAINT SYMBOL, SEE DETAIL 1 ON SHEET MD5.
 - 4 INSTALL PET WASTE STATION. SEE APPENDIX B OF SPECIFICATIONS FOR DETAILS.
 - 5 INSTALL STOP BAR PER CITY OF SAMMAMISH STANDARD DETAIL T-36.
 - 6 CROSSWALK MARKING, SEE DETAIL 3 ON SHEET MD4.
 - 7 PAINTED ARROW, SEE DETAIL 1 ON SHEET MD5.
 - 8 THERMOPLASTIC WARNING BAND, SEE DETAIL 3 ON SHEET MD5.
 - 9 INSTALL TRASH RECEPTACLE, SEE APPENDIX B OF SPECIFICATIONS.
 - 10 INFILTRATION TRENCH SEE DETAIL 1 ON SHEET MD4.
 - 11 INSTALL REST STOP, SEE DETAILS ON SHEET MD2.
 - 12 INSTALL 4" WIDTH SOLID YELLOW PAINT LINE.
 - 13 INSTALL BOLLARD AND RAIL FENCE, SEE DETAILS ON SHEET MD3.

- LEGEND:**
- CHAIN LINK FENCE
 - SIGN, SEE SHEET AL2 FOR SIGN SCHEDULE.
 - 14.5' X 295' SIGHT DISTANCE TRIANGLE FOR STOP CONTROLLED INTERSECTION ON DRIVEWAYS PER COS STD FIG 02-19A

- GENERAL NOTES:**
1. SEE UT SHEETS FOR UTILITY RELOCATION/ADJUSTMENTS.
 2. EXISTING FEATURES/TREES CALLED OUT TO BE REMOVED ON SP SHEETS ARE NOT SHOWN ON AL SHEETS FOR CLARITY PURPOSES.
 3. SEE LA SHEETS FOR RESTORATION ALONG TRAIL SIDE OR ALONG BOTTOM OF WALLS.
 4. FOR SIGN REMOVAL, SEE SP SHEETS.
 5. STATION CALLOUTS ARE MEASURED TO THE CENTER OF WARNING BAND.
 6. SEE DP SHEETS FOR DRIVEWAY PLAN AND PROFILE.



SIGN NUMBER	LOCATION			DESCRIPTION	MUTCD SIGN	SIGN SIZE	POST SIZE/TYPE	REMARK
	LINE	STATION	OFFSET					
083	D-LINE	438+67	9.0' RT	STOP	R1-1	30" X 30"	2" STEEL SQUARE*	SALVAGE EXISTING SIGN AND POST, REPLACE AFTER CONSTRUCTION
084	D-LINE	438+32	13' LT	STOP	R1-1	18" X 18"	2" STEEL SQUARE*	SALVAGE EXISTING SIGN AND POST, ROTATE SIGN FACE TO DIRECTION OF APPROACHING VEHICLES.
085	D-LINE	438+70	10' LT	YIELD	R1-2	18" X 18" X 18"	2" STEEL SQUARE*	NEW SIGN AND POST.
116	D-LINE	443+47	9.75' RT	ELST TRAIL RULES	CUSTOM	N/A	2" STEEL SQUARE*	NEW SIGN AND POST. SIGN TO BE PROVIDED BY THE OWNER.
210	D-LINE	439+00	10' RT	NO MOTOR VEHICLE	R5-3	24" X 24"	2" STEEL SQUARE*	NEW SIGN AND POST.
211	D-LINE	439+00	10' RT	KCC.7.12.260 & 7.12.295 AUTHORIZED VEHICLES ONLY	CUSTOM	N/A	-	NEW SIGN. MOUNTED BELOW SIGN 210. SIGN TO BE PROVIDED BY THE OWNER.
212	D-LINE	443+83	10' LT	NO MOTOR VEHICLE	R5-3	24" X 24"	2" STEEL SQUARE*	NEW SIGN AND POST.
213	D-LINE	443+83	10' LT	KCC.7.12.260 & 7.12.295 AUTHORIZED VEHICLES ONLY	CUSTOM	N/A	-	NEW SIGN. MOUNTED BELOW SIGN 210. SIGN TO BE PROVIDED BY THE OWNER.
214	D-LINE	444+07	10' RT	YIELD	R1-2	18" X 18" X 18"	2" STEEL SQUARE*	NEW SIGN AND POST.

*SEE SHEET MD1 FOR SIGN POST DETAILS



REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			B. PURGANAN
			Y. HO
			C. BUITRAGO

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 FILE NAME: BL1521075P19T03AL-01_GDC
 JOB No.: 54-1521-075 P28 T04
 DATE: FEBRUARY 2026



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 Ph: 206.394.3700

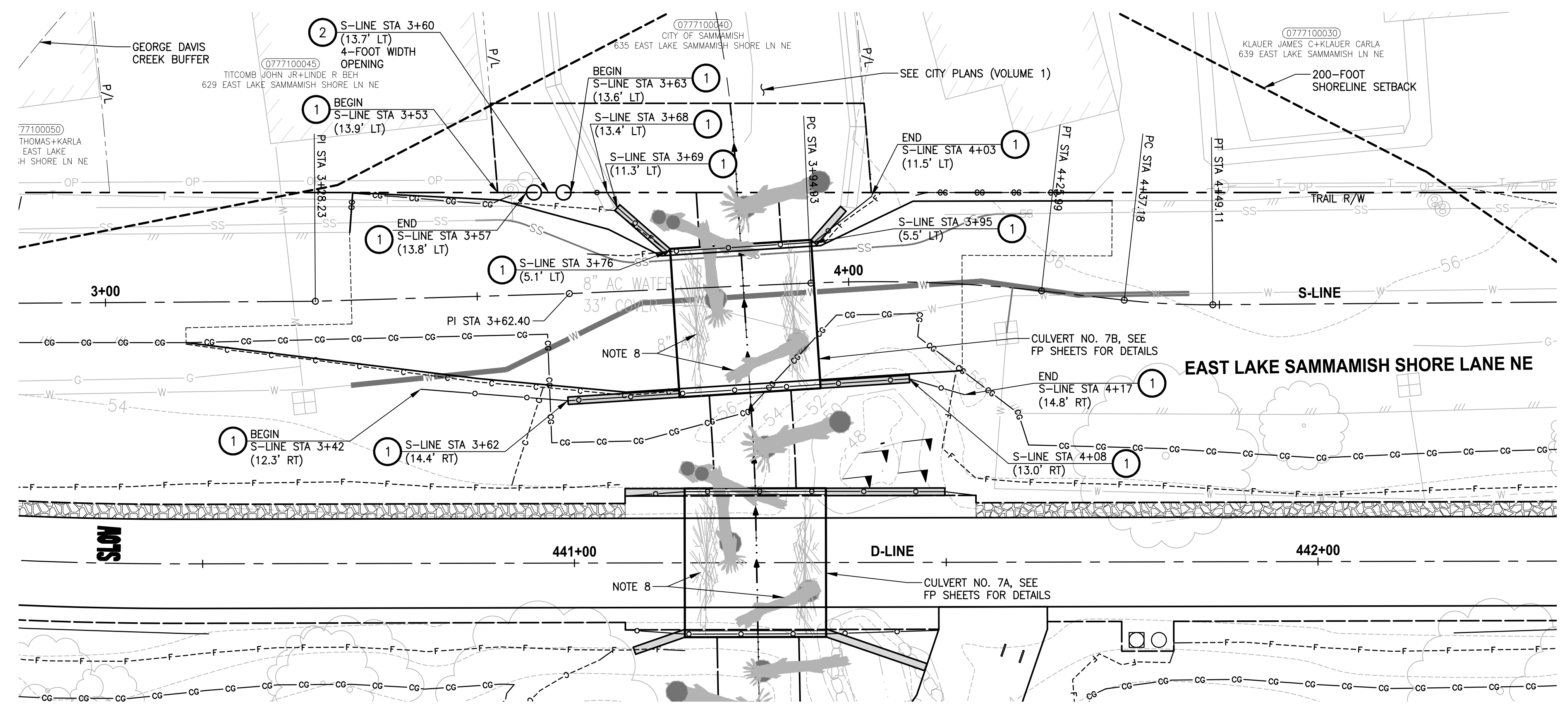
PROJECT NAME
**EAST LAKE SAMMAMISH
 MASTER PLAN TRAIL
 GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
 SAMMAMISH, WA

TRAIL PLAN AND PROFILE

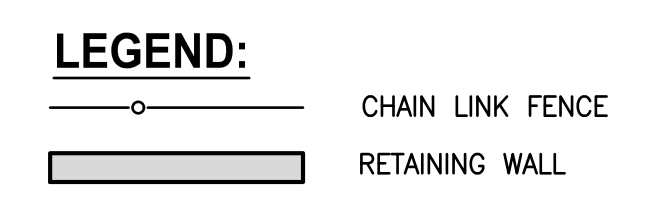
SHEET NO.
 11 OF 35
AL2

Conformed Set

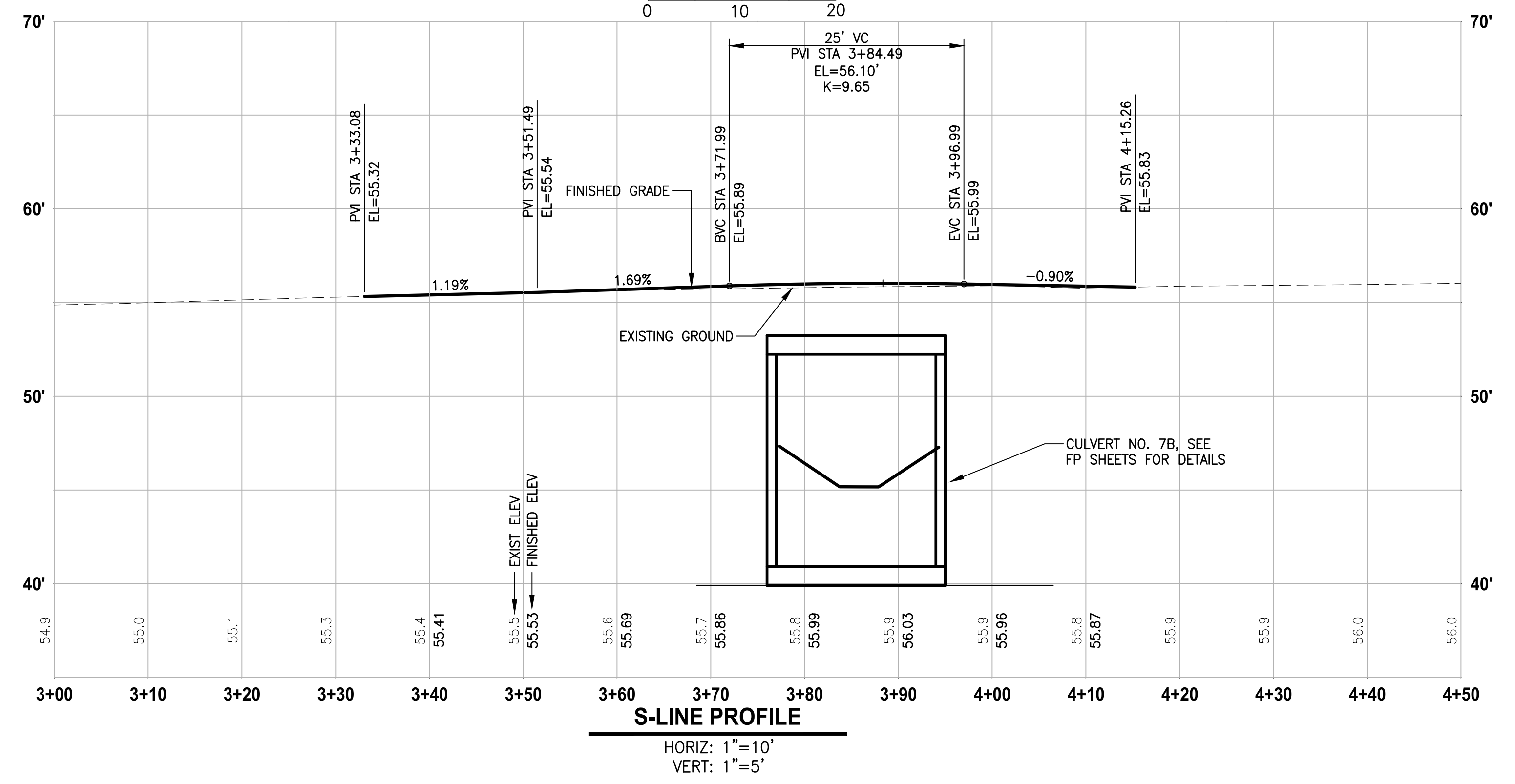
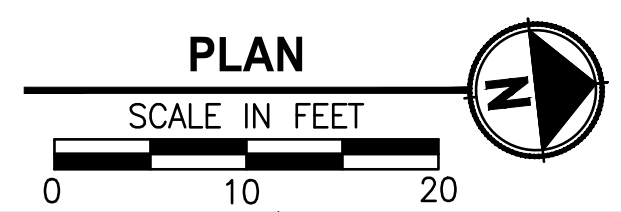
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 PLOTTED BY: purganbut DATE: Tuesday, February 10, 2026 7:00:55 AM



- CIVIL CONSTRUCTION NOTES:**
- 1 INSTALL 4-FOOT COATED CHAIN LINK FENCE. SEE DETAILS ON SHEET MD1.
 - 2 INSTALL 4-FOOT COATED CHAIN LINK SINGLE (SWING) GATE PER WSDOT STD PLAN L-30.10.
 - 3 NOT USED.
 - 4 INSTALL PET WASTE STATION. SEE APPENDIX B OF SPECIFICATIONS FOR DETAILS.
 - 5 INSTALL TOP LOCKING REMOVABLE BOLLARD PER DETAILS ON SHEET MD3.
 - 6 INSTALL FIXED BOLLARDS PER DETAILS ON SHEET MD4.



- GENERAL NOTES:**
1. SEE UT SHEETS FOR UTILITY IMPROVEMENTS.
 2. EXISTING FEATURES/TREES CALLED OUT TO BE REMOVED ON SP SHEETS ARE NOT SHOWN ON AL SHEETS FOR CLARITY PURPOSES.
 3. SEE LA SHEETS FOR RESTORATION ALONG TRAIL SIDE OR ALONG BOTTOM OF WALLS.
 4. SEE TE SHEETS FOR CUT WALL BACK SLOPE RESTORATION TREATMENT.
 5. FOR SIGN REMOVAL, SEE SP SHEETS.
 6. STATION CALLOUTS ARE MEASURED TO THE CENTER OF WARNING BAND AND BOLLARDS.
 7. SEE PV SHEET FOR PAVING PLAN.
 8. SEE FP SHEETS FOR STREAM AND CULVERT DESIGN.



Know what's below.
 Call before you dig.

REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			B. PURGANAN
			Y. HO
			C. BUITRAGO

ONE INCH AT FULL SCALE.
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FILE NAME: BL1521075P19T03AL-03_GDC
 JOB No.: 554-1521-075 P28 T04
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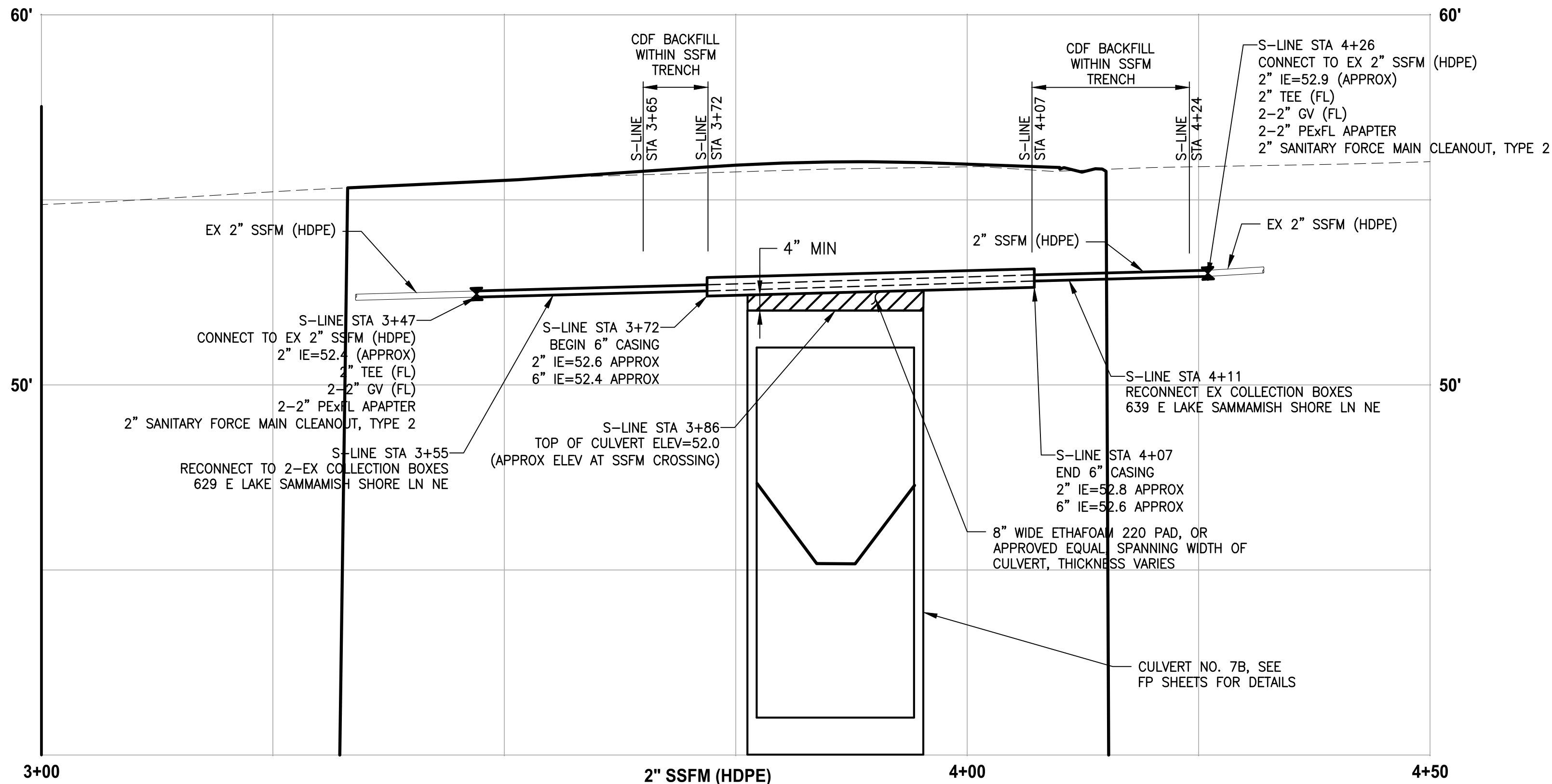
PROJECT NAME
**EAST LAKE SAMMAMISH
 MASTER PLAN TRAIL
 GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
 SAMMAMISH, WA

ROAD PLAN AND PROFILE

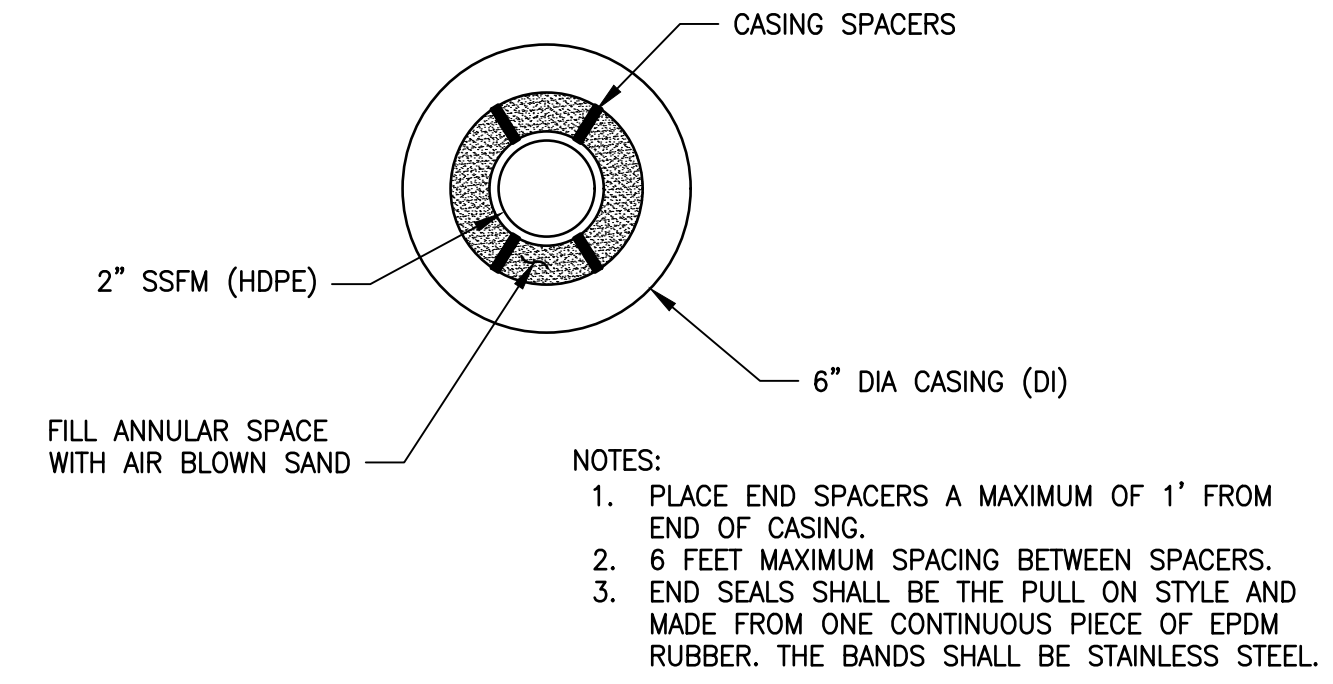
Conformed Set

SHEET NO.
 12 OF 35
AL3

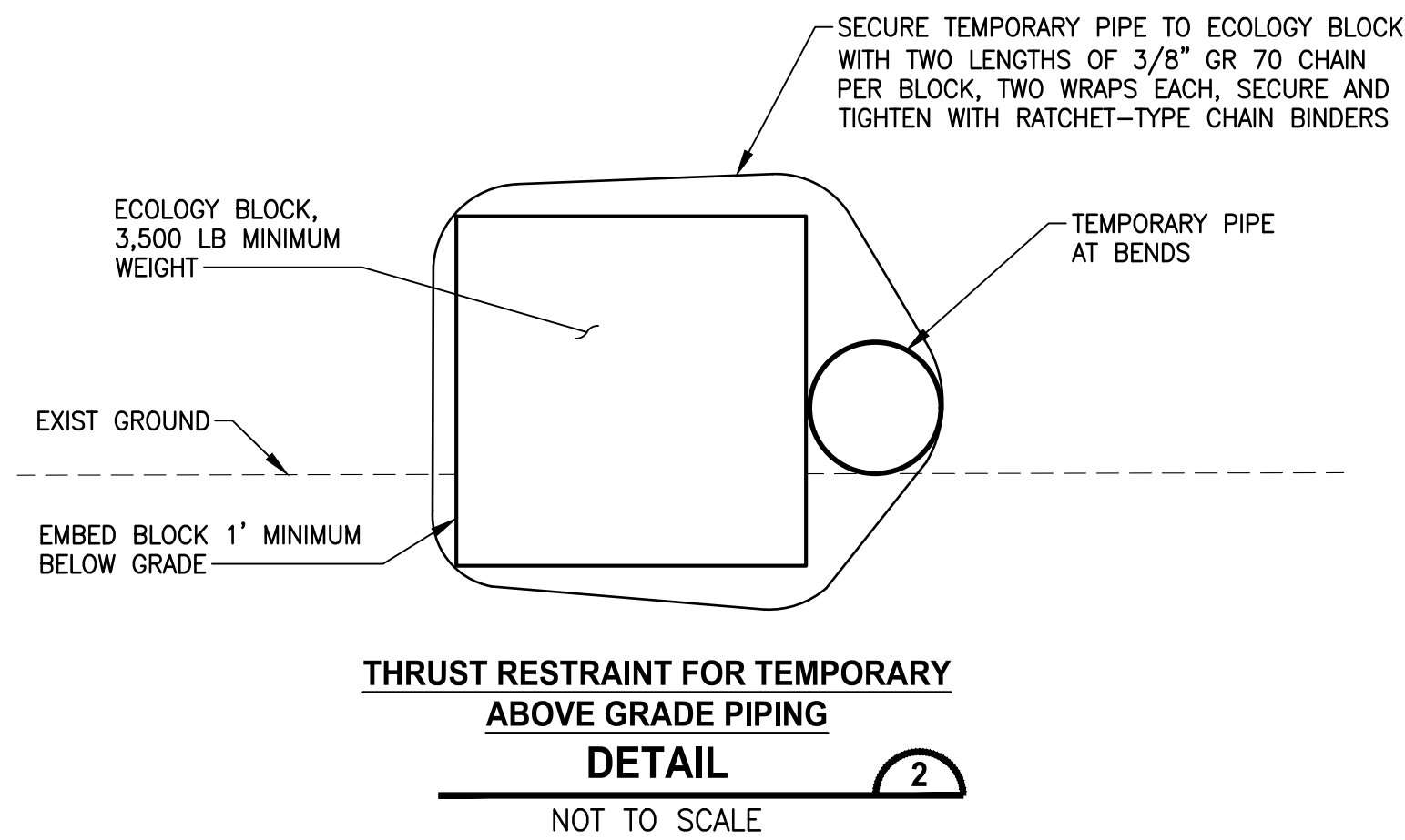
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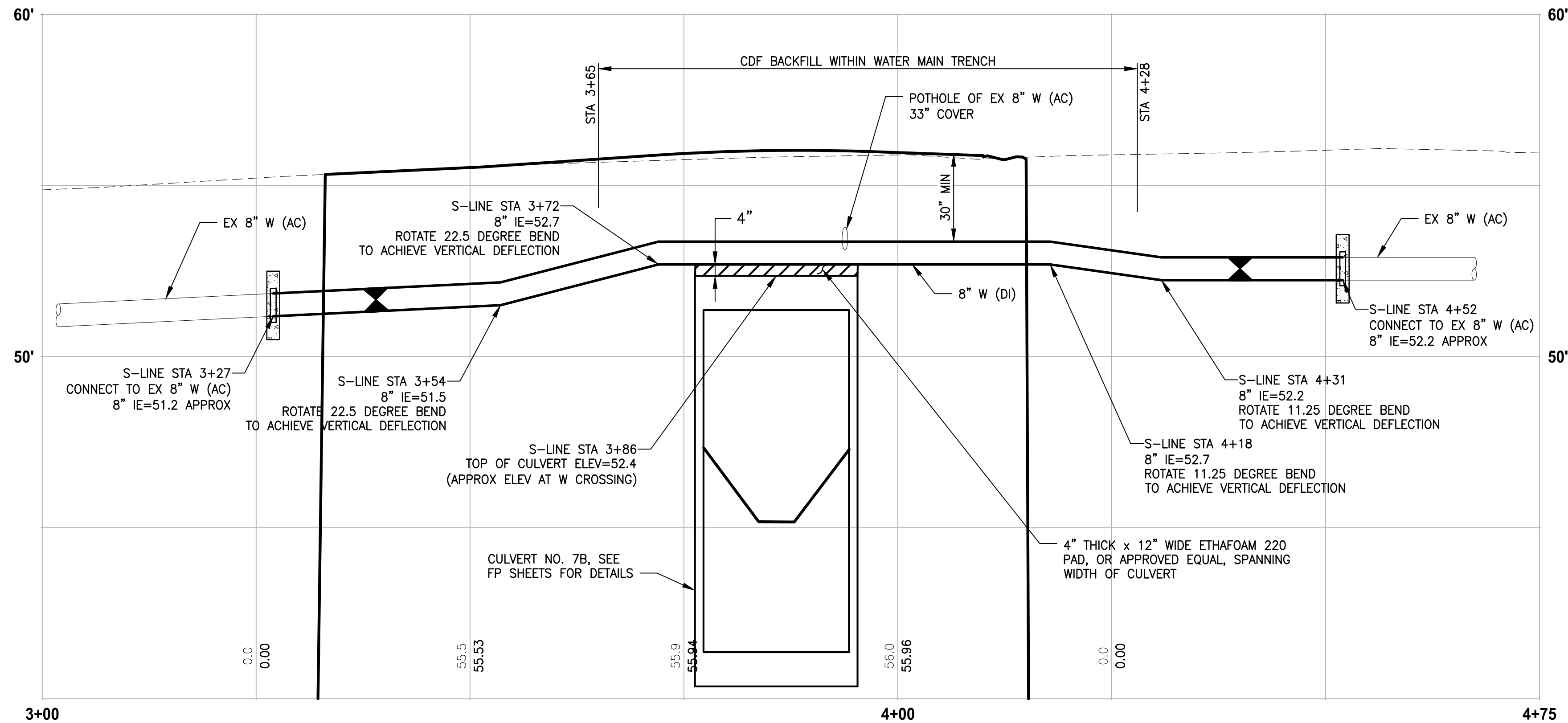
2" SSFM (HDPE) PROFILE
 HORIZ: 1"=10'
 VERT: 1"=2.5'



2" SSFM IN 6" CASING DETAIL
 NOT TO SCALE



THRUST RESTRAINT FOR TEMPORARY ABOVE GRADE PIPING DETAIL
 NOT TO SCALE



8" WATER (DI) PROFILE
 HORIZ: 1"=10'
 VERT: 1"=2.5'



Know what's below.
 Call before you dig.

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REVISIONS	DATE	BY	DESIGNED
			S. OGDEN
			B. PURGANAN
			R. RAYMOND
			C. BUITRAGO

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 FILE NAME: BL1521075P19T03UD-01_GDC
 JOB No.: 554-1521-075 P28 T04
 DATE: FEBRUARY 2026

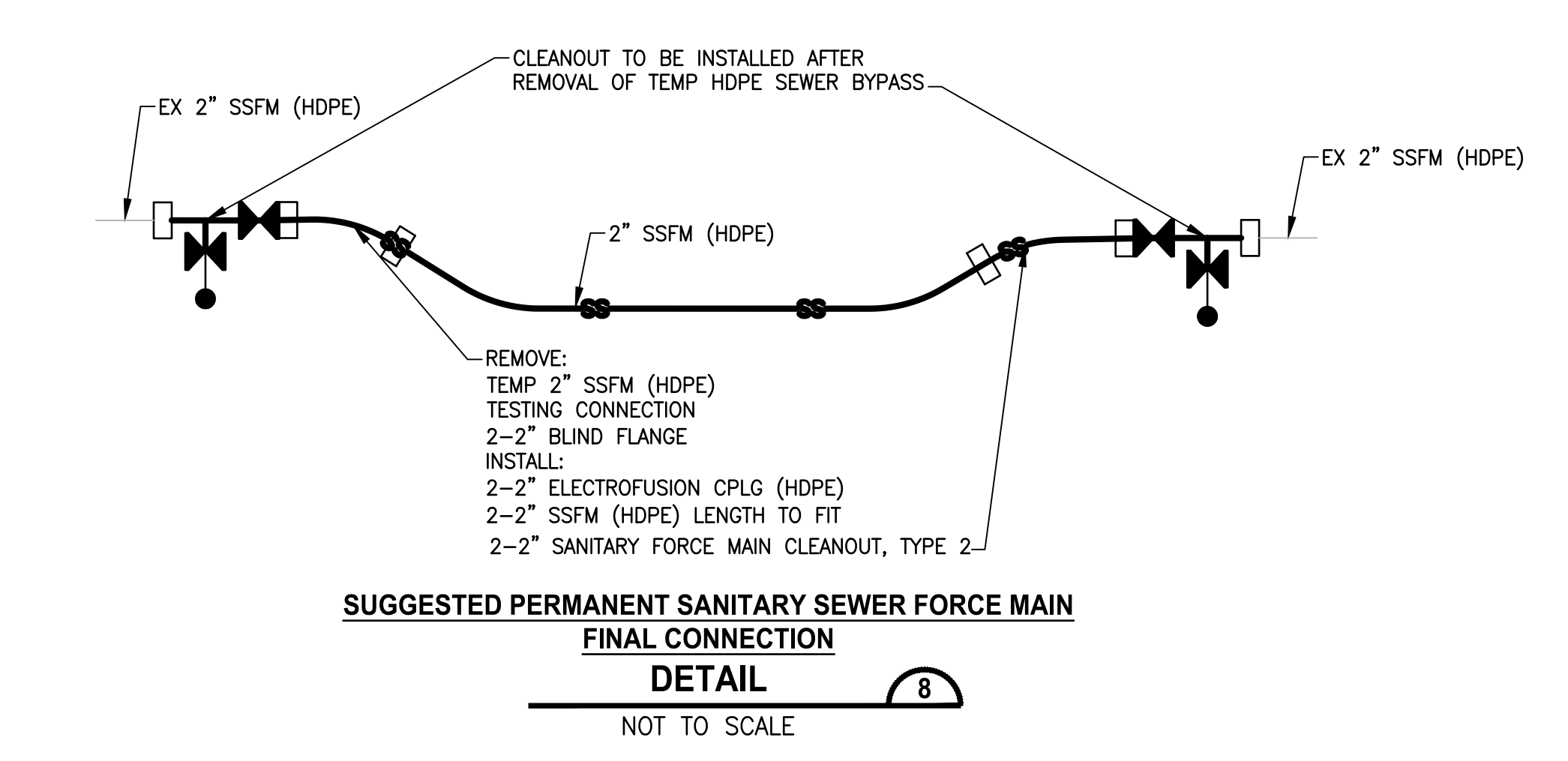
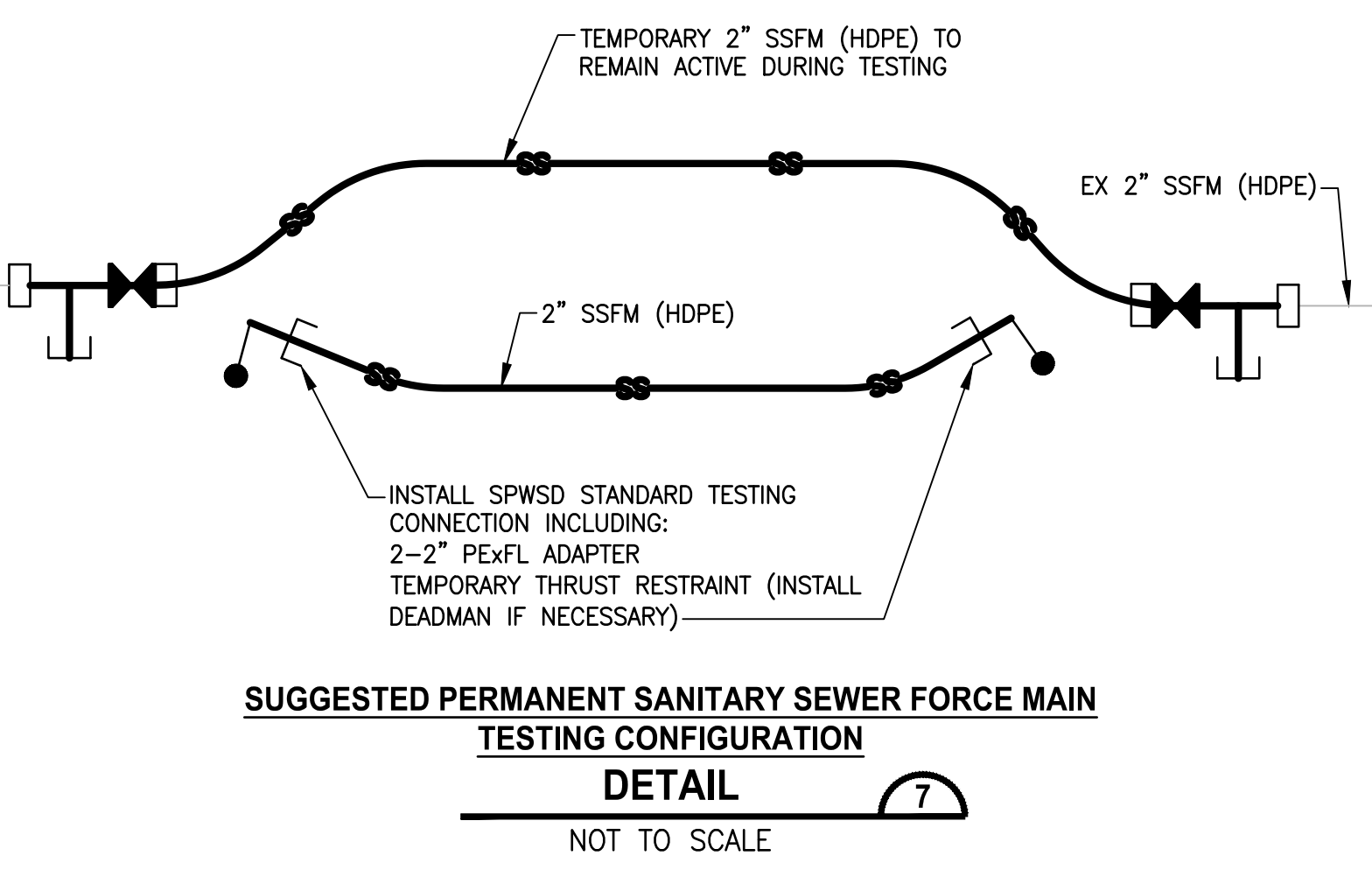
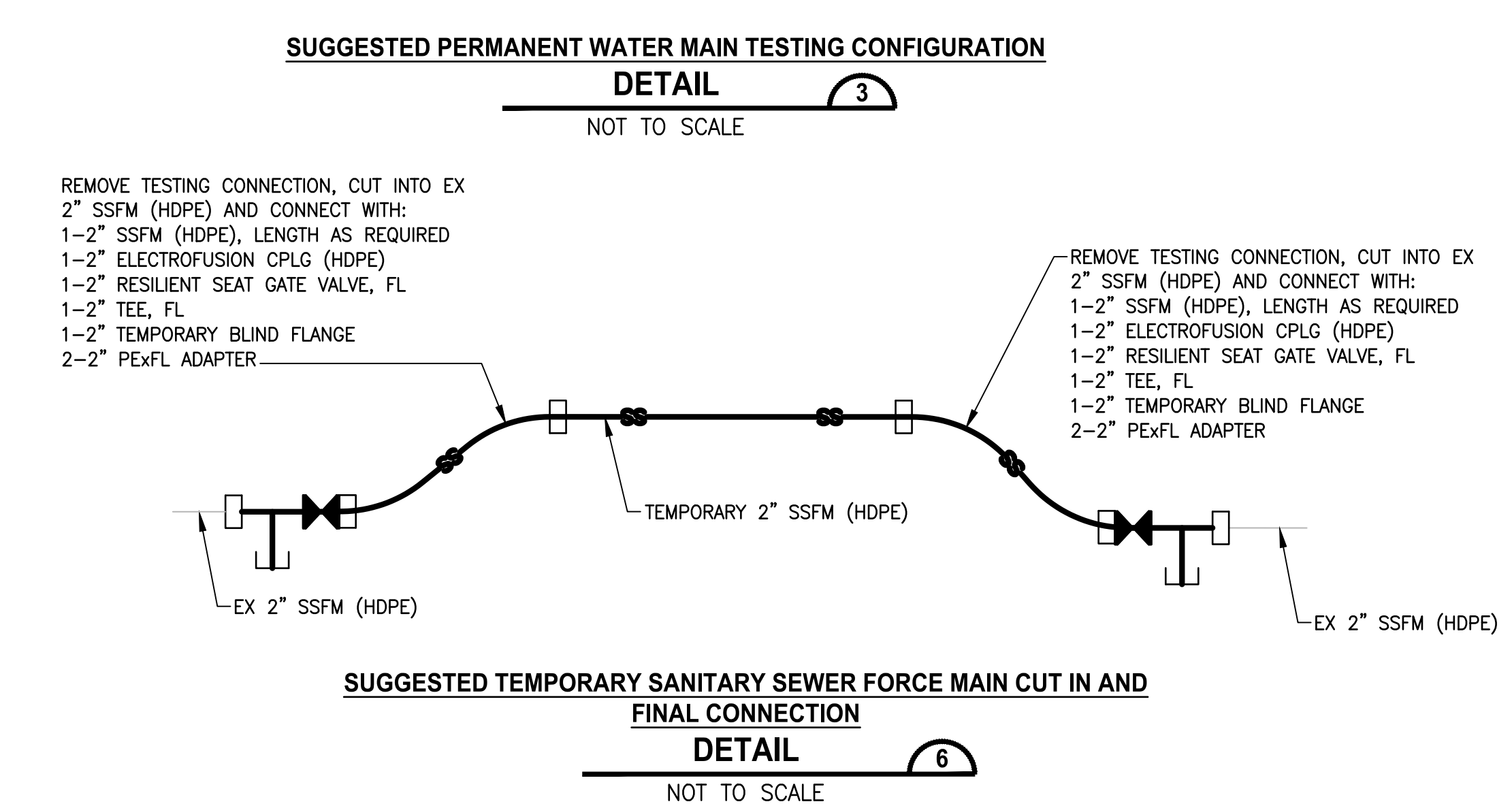
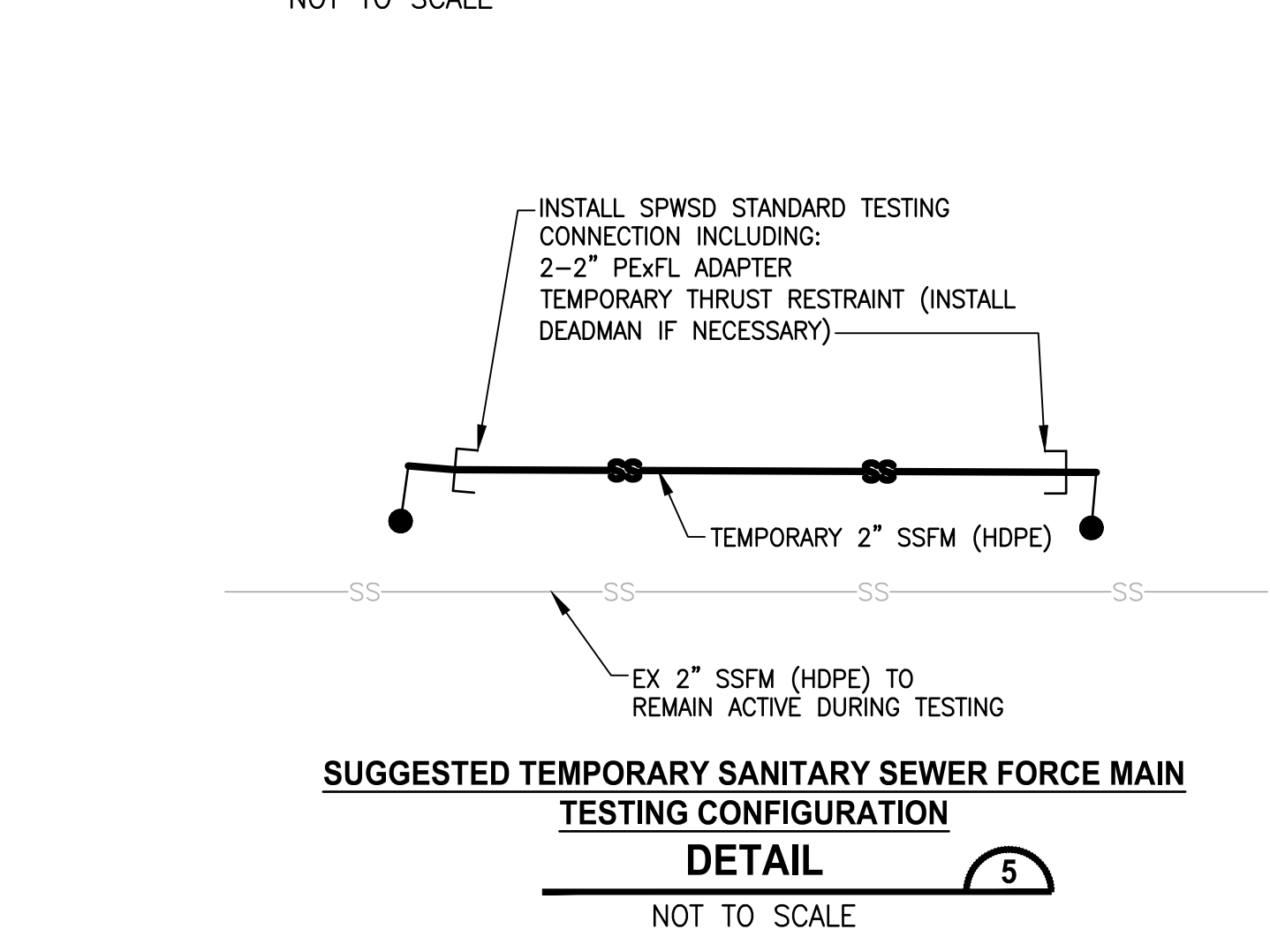
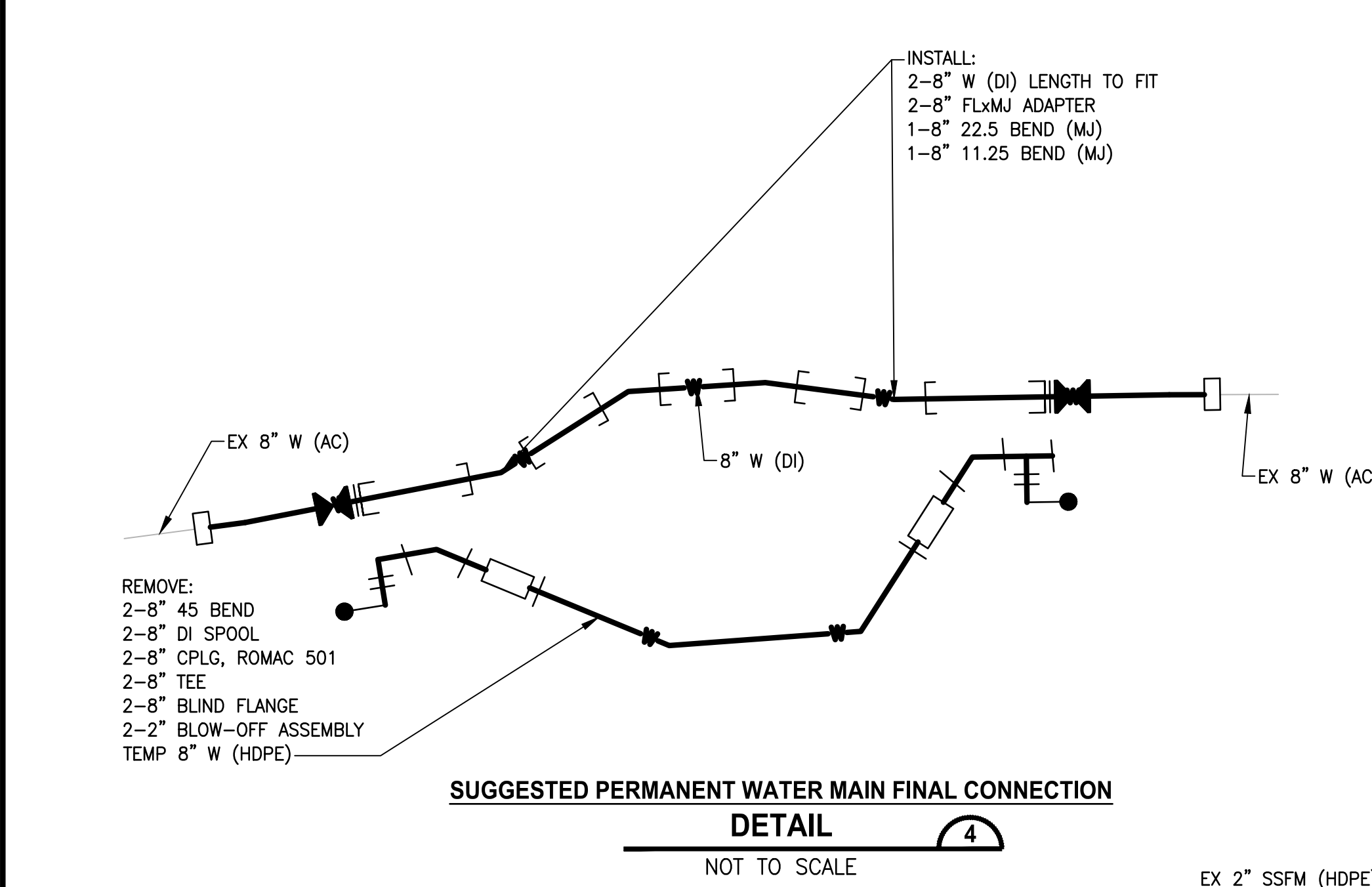
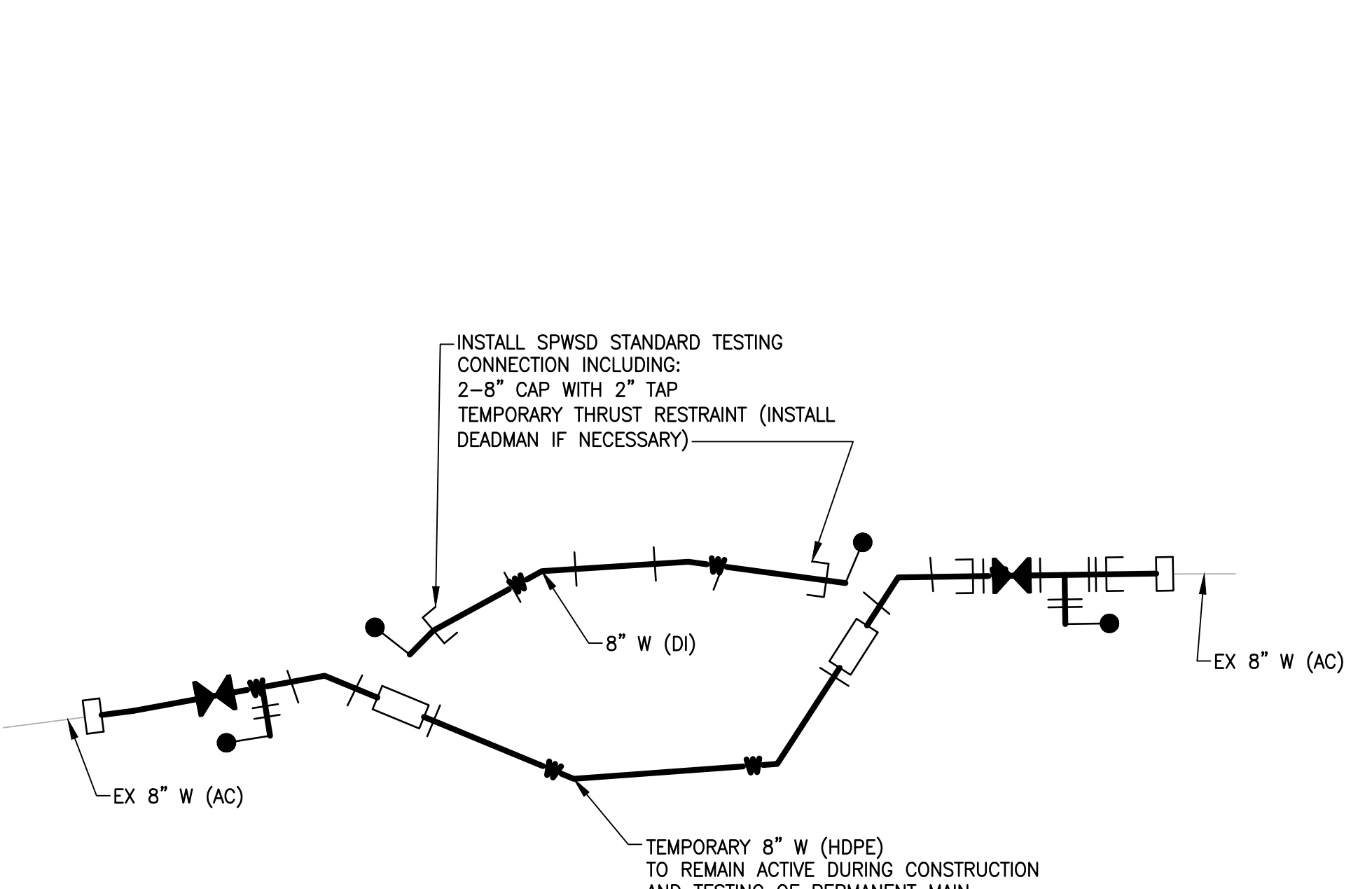
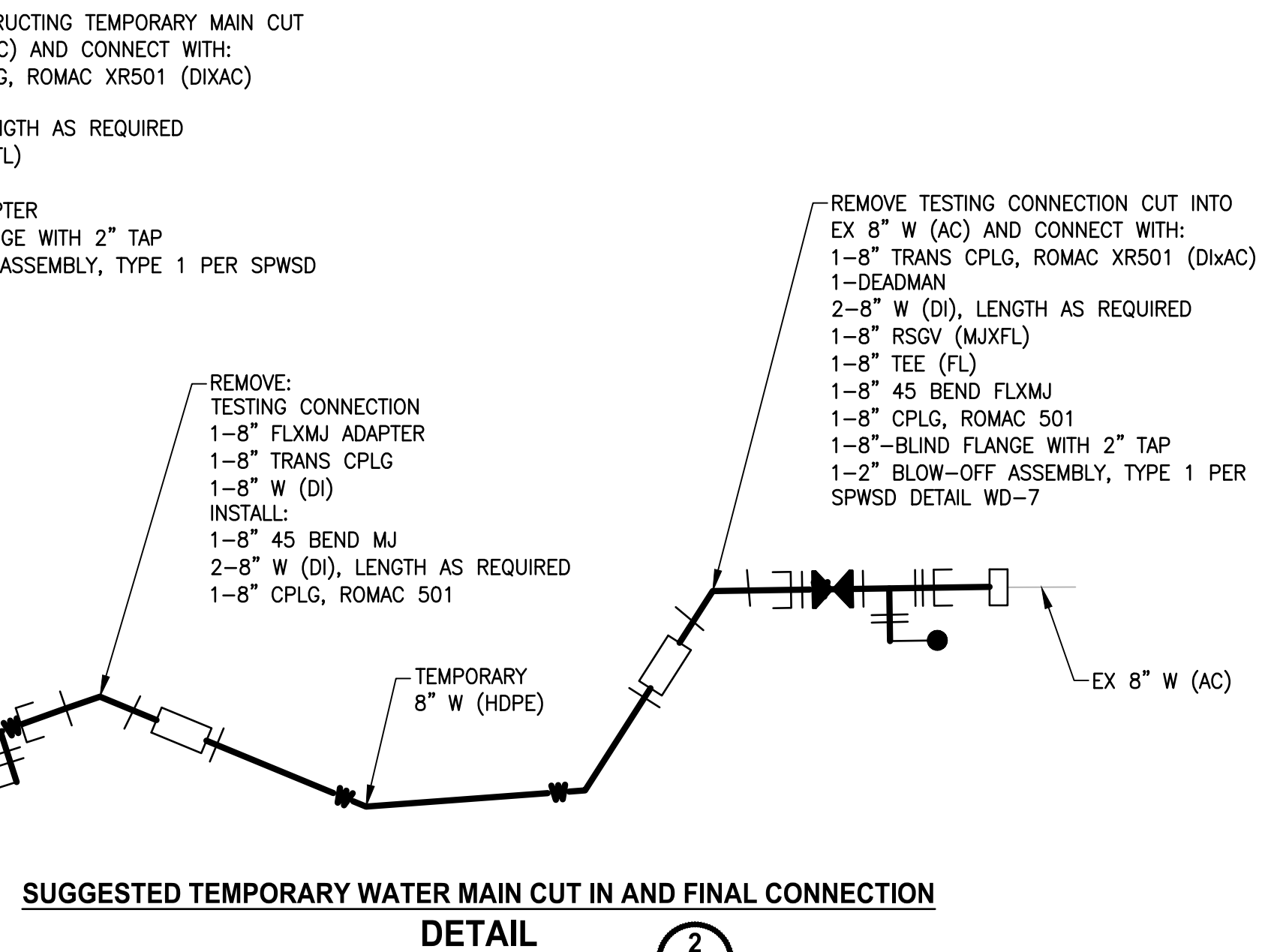
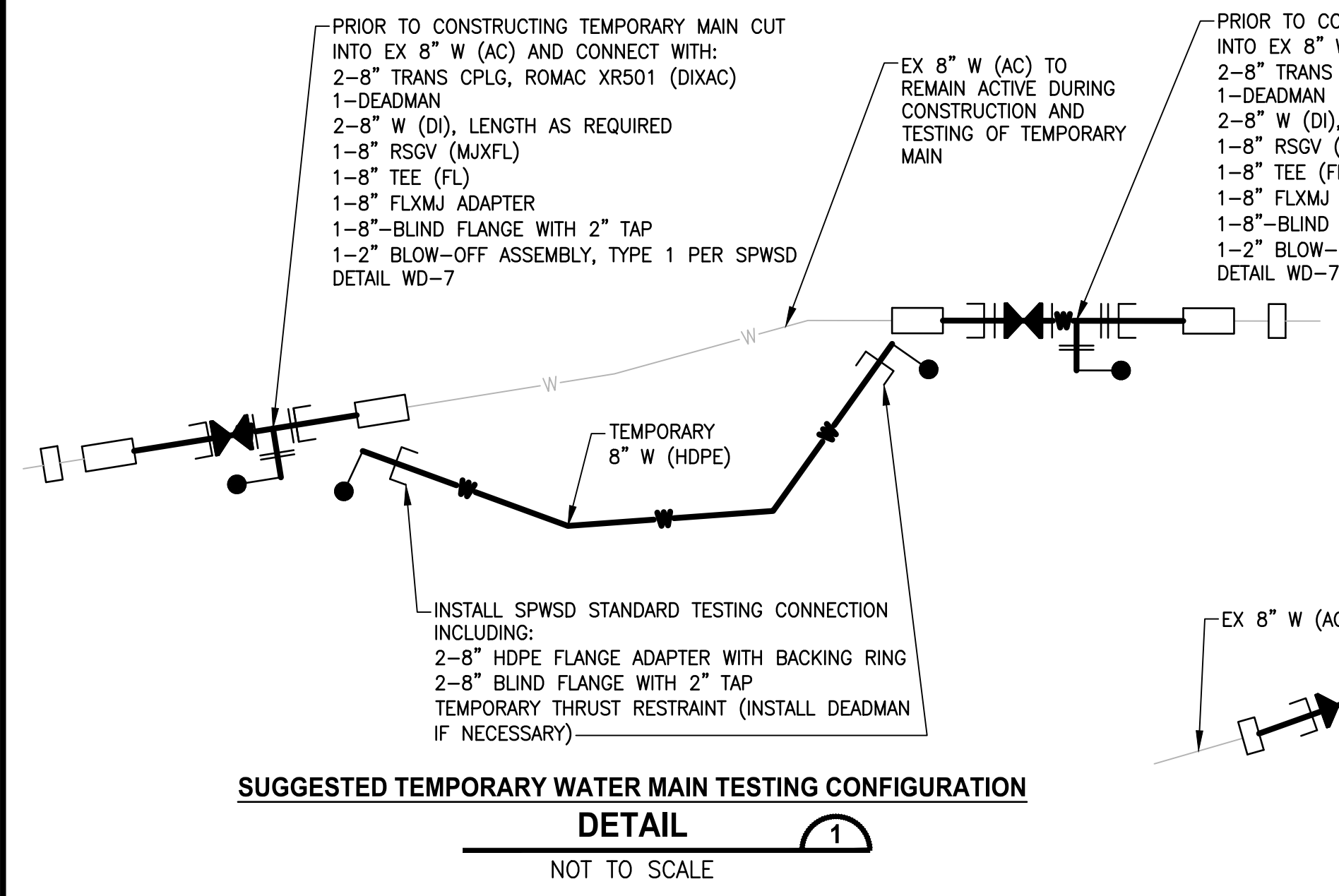


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PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL GEORGE DAVIS CREEK CULVERT REPLACEMENTS
 SAMMAMISH, WA

SHEET NO. 14 OF 35
UTILITY DETAILS
 UD1

PLOTTED BY: purgahan, February 10, 2026, 7:02:19 AM
 PATH: U:\PSO\Projects\Clients\1521-KingCo\564-1521-075-ELST\99Secs\CADD\Phase 19\T03_Civil\DWG-GDC 2025\DWG
 LAYOUT: UD2



- CONNECTION AND SHUT DOWN NOTES:**
- ALL DETAILS SHOWN ON THIS SHEET ARE SCHEMATIC ONLY. REFER TO SHEETS UT1 AND UD1 FOR DIMENSIONS.
 - SCHEDULE WITH SPWSD (7 BUSINESS DAYS MINIMUM NOTICE) ALL WATER MAIN AND SANITARY SEWER SHUT-DOWNS AND CONNECTIONS.
 - ALL DEADMANS SHALL BE INSTALLED 7 DAYS OR UNTIL THE DEADMAN IS FULLY CURED (WHICHEVER IS LONGEST) PRIOR TO CUTTING INTO PIPE.
 - WATER MAIN AND SANITARY SEWER SHUT-DOWNS SHALL BE LIMITED TO 4 HOURS IN DURATION. IF THE CUSTOMER'S REQUEST, THE CONTRACTOR SHALL PROVIDE OTHER SOURCES OF WATER TO THE CUSTOMER.
 - INSTALLATION OF THE SPWSD'S STANDARD TESTING CONNECTION IS REQUIRED FOR ALL FLUSHING AND TESTING.
 - FOLLOWING COMPLETION OF NEW CONSTRUCTION, TESTING, AND ACCEPTANCE BY THE SPWSD, REMOVE THE TESTING CONNECTION AND INSTALL FINAL CONNECTION.
 - INSTALLATION AND CONNECTION SHALL BE WITH 100% SPWSD INSPECTION.



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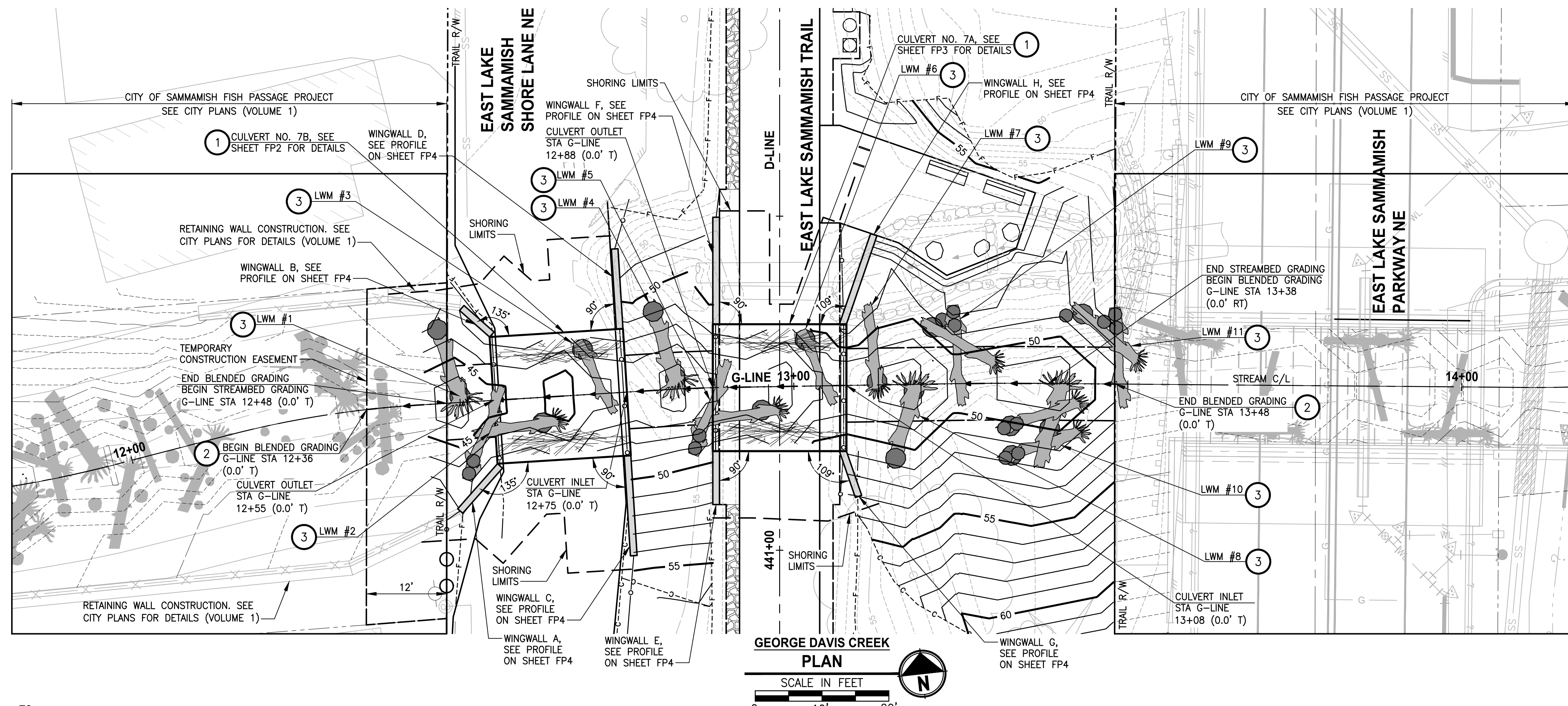
PROJECT NAME
**EAST LAKE SAMMAMISH
 MASTER PLAN TRAIL
 GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
 SAMMAMISH, WA

UTILITY DETAILS

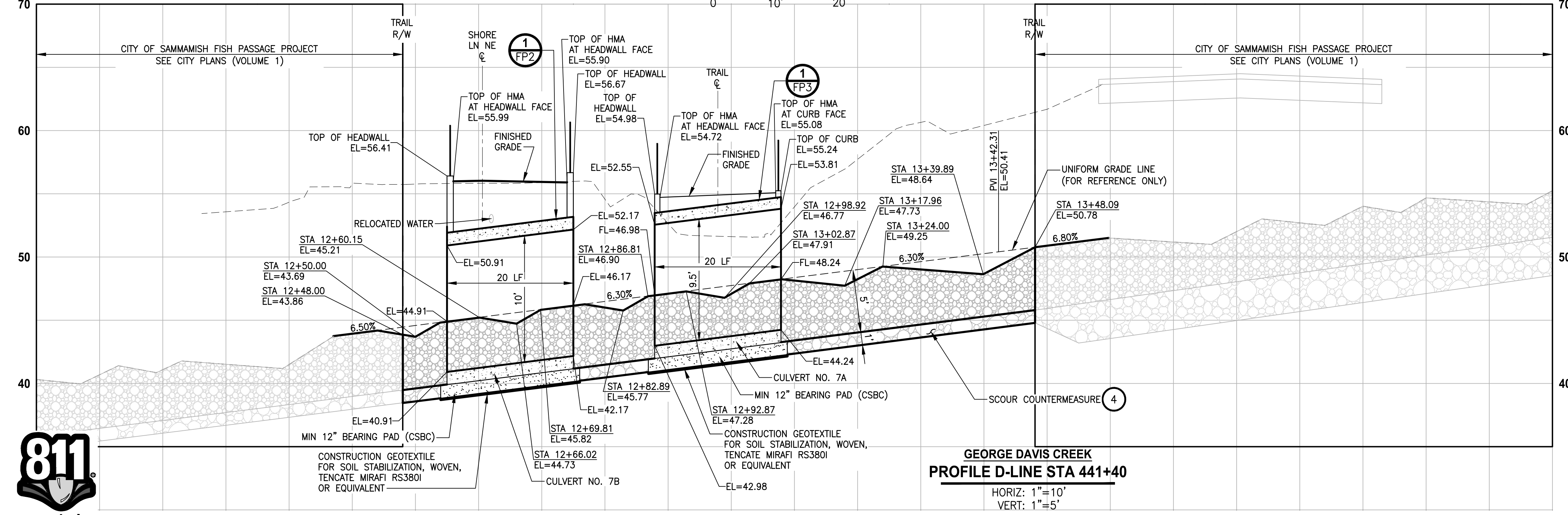
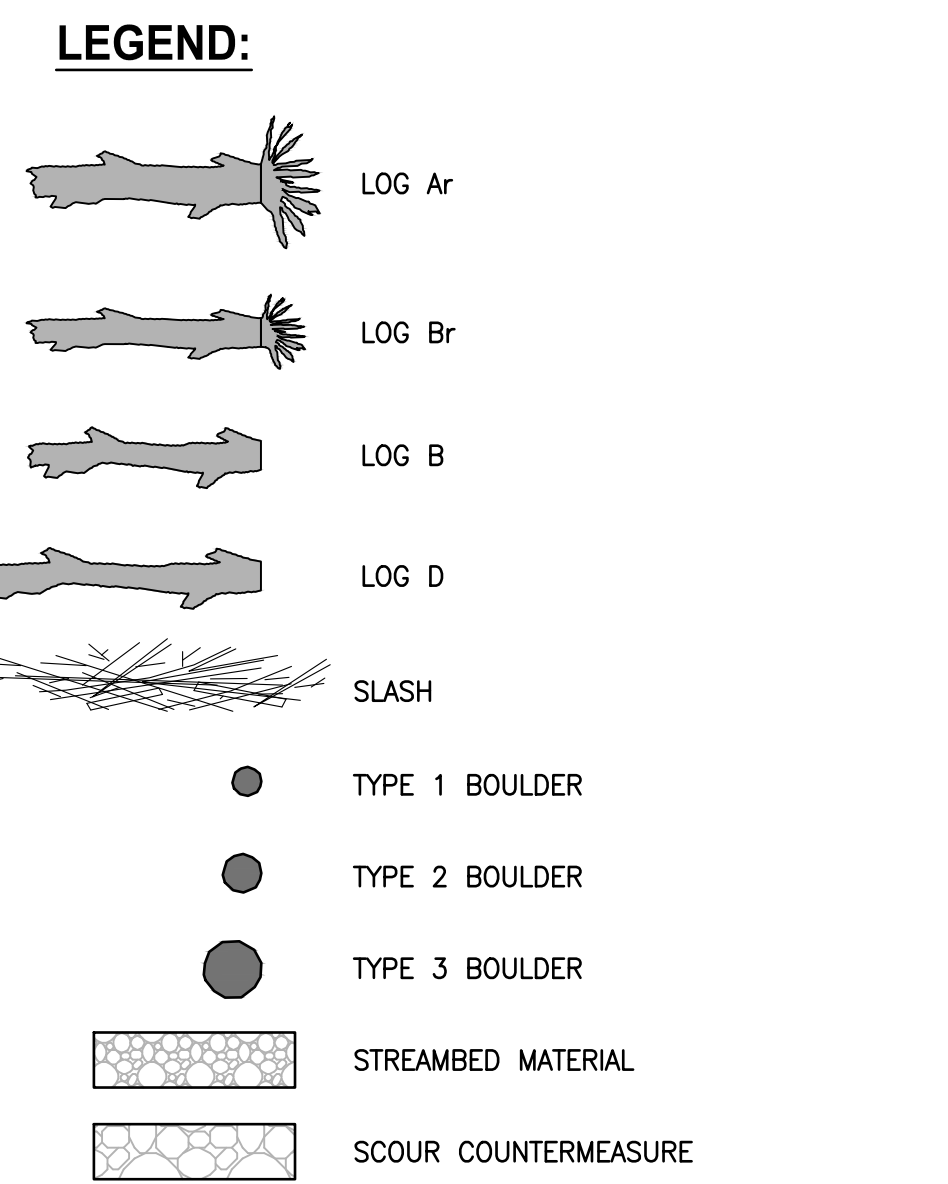
SHEET NO.
 15 OF 35
UD2

Conformed Set

LAYOUT: FP1
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 PLOTTED BY: purgabut DATE: Tuesday, February 10, 2026 1:21:24 PM



- STREAM CONSTRUCTION NOTES:**
- INSTALL AGENCY DESIGNED BURIED STRUCTURE (OWNER FURNISHED) SHALL BE A PRECAST CONCRETE SPLIT BOX CULVERT AND INCLUDE ASSOCIATED WINGWALLS AND HEADWALLS. SEE SPECIAL PROVISIONS SECTION 6-20.
 - CONSTRUCT STREAMBED PER SPECIAL PROVISIONS SECTION 8-30. SEE SHEET FP5 FOR STREAMBED MATERIAL DETAILS, STEP-POOL DETAILS AND CHANNEL SECTION DETAILS.
 - LARGE WOODY MATERIAL FEATURE. SEE SHEET FP6 FOR LOG SCHEDULE, LWM FEATURE CONTROL TABLE, AND DETAILS. FEATURES INCLUDE LOGS, STREAMBED BOULDERS, AND BOULDER ANCHORS AS SHOWN IN THE PLANS AND DETAILS. SEE SHEET FP5 FOR STREAMBED BOULDER SIZING TABLE. SEE SPECIAL PROVISIONS SECTION 8-33.
 - CONSTRUCT SCOUR COUNTERMEASURES. SEE THIS SHEET AND SHEET FP5 FOR MATERIAL GRADATION AND SECTION DETAILS.



- GENERAL NOTES:**
- BOX CULVERTS AND STREAM WORK BELOW ORDINARY HIGH WATER LINE SHALL ONLY OCCUR BETWEEN JULY 1 AND SEPTEMBER 30 PER HPA APPROVAL CONDITIONS IN APPENDIX A OF THE SPECIAL PROVISIONS.
 - CONSTRUCTION ACTIVITY FOR CULVERTS SHALL NOT OCCUR UNTIL FISH REMOVAL (BY THE CITY) IS COMPLETED AND TEMPORARY STREAM DIVERSION IS WORKING.
 - SEE TEMPORARY STREAM DIVERSION NOTES IN SHEET TD1 FOR STREAM CONSTRUCTION AND COMMISSIONING NOTES.
 - LOCATION AND ORIENTATION OF STREAMBED FEATURES (STEP-POOLS, WOODY MATERIALS, ETC.) ARE APPROXIMATE AND SHALL BE STAKED PER PLAN BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. FINAL LOCATION AND ORIENTATION OF THESE STREAMBED FEATURES SHALL BE DIRECTED BY THE ENGINEER.



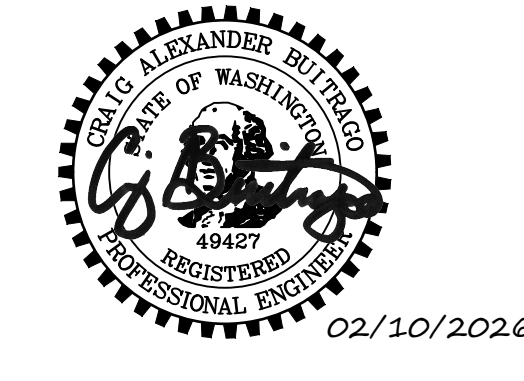
Know what's below.
Call before you dig.

Conformed Set

REVISIONS	DATE	BY	DESIGNED
			N. REDDEN
			B. PURGANAN
			T. PRINCE
			C. BUITRAGO

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY

FILE NAME: BL1521075P19T03FP-01_GDC
 JOB No: 554-1521-075 P28 T04
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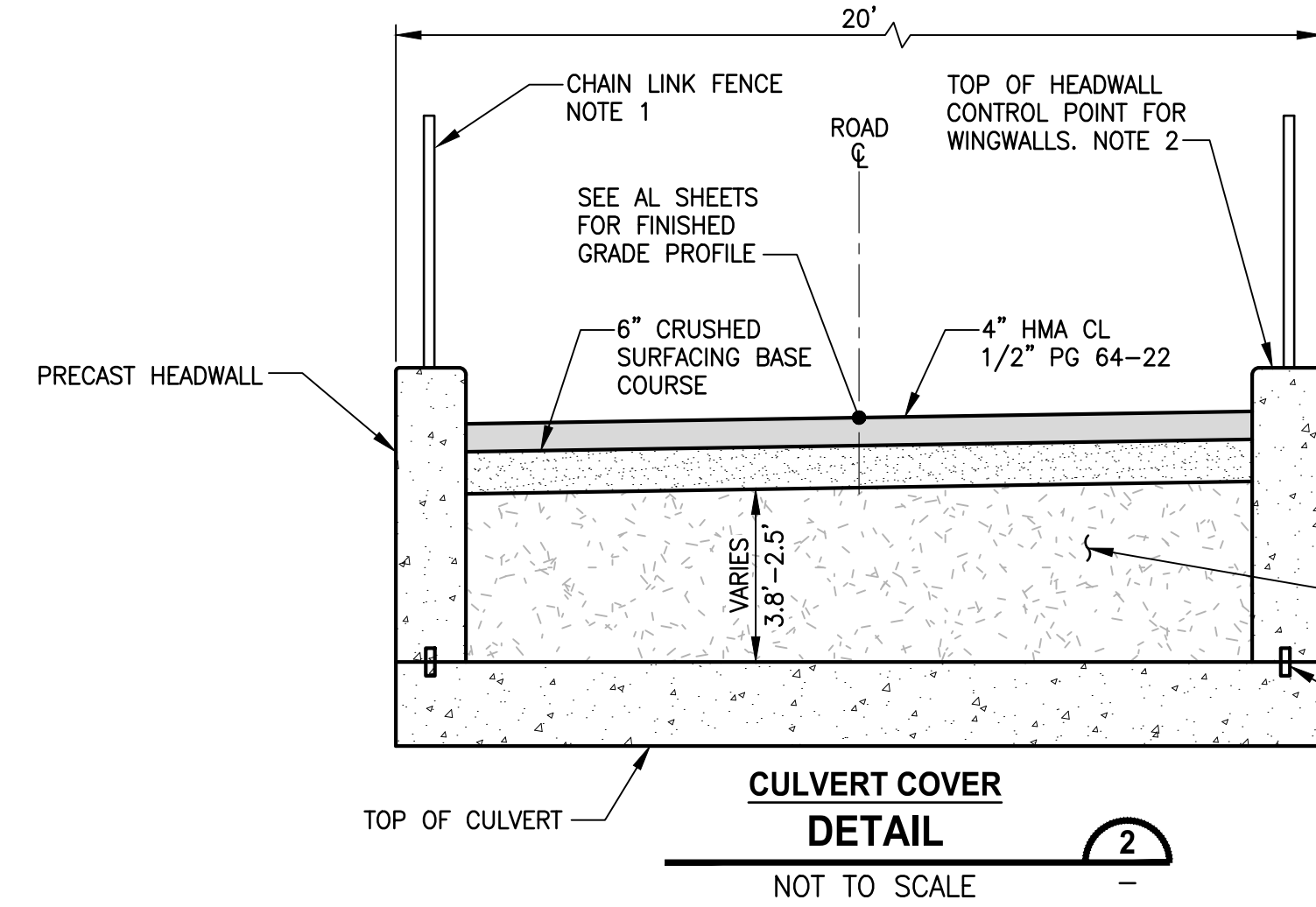
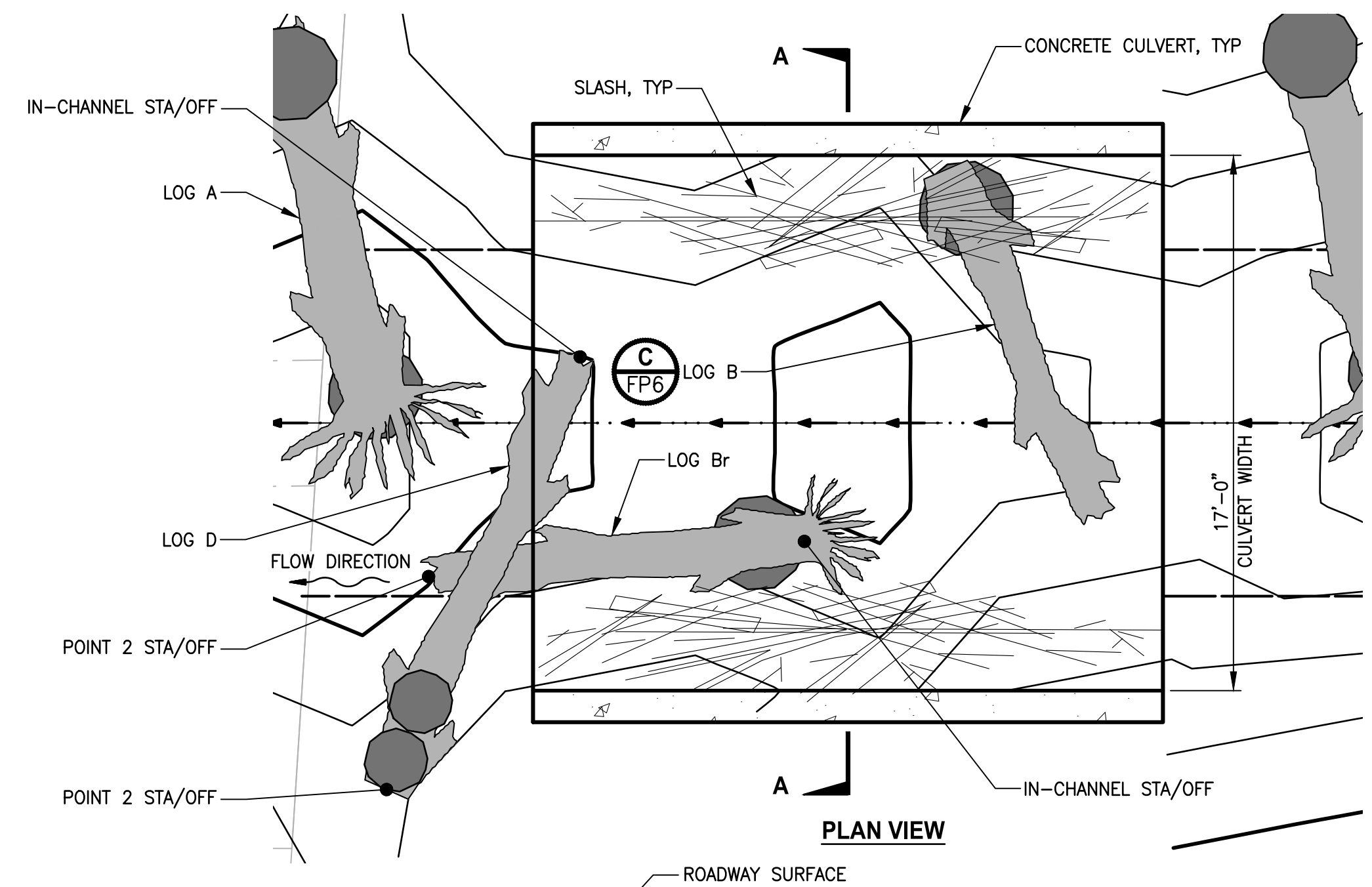
Parametrix
 719 2nd Avenue, Suite 200 • Seattle, WA 98104
 Ph: 206.394.3700

PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL GEORGE DAVIS CREEK CULVERT REPLACEMENTS
 SAMMAMISH, WA

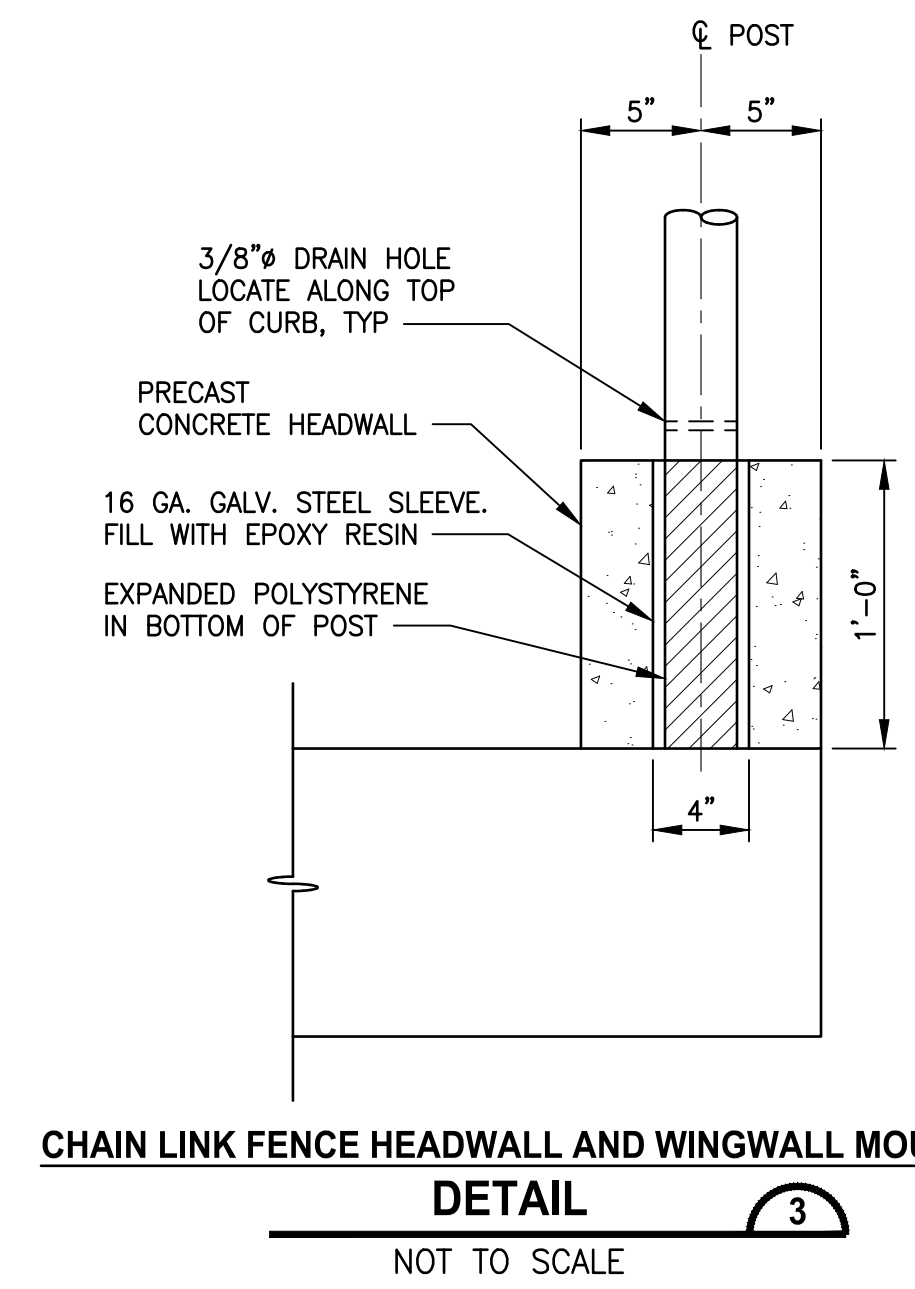
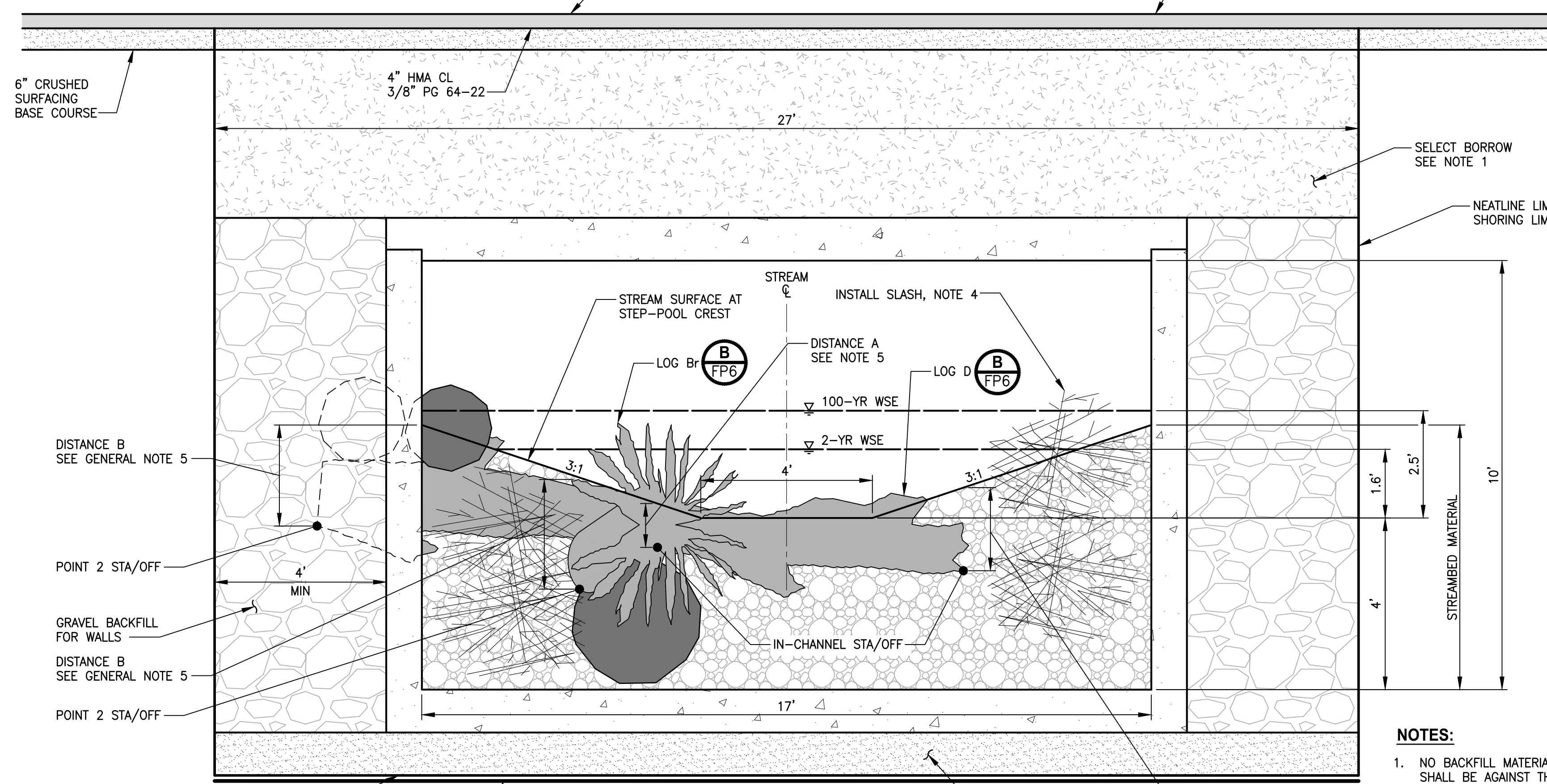
FISH PASSAGE CULVERTS STREAM PLAN AND PROFILE

SHEET NO.
16 OF 35
FP1

PATH: U:\PSO\Projects\Clients\1521-KingCo\554-1521-075-ELST\985ves\CADD\Phase 19\T03 Civil\Draw-GDC 2025\DWG\ PLOTTED BY: purgaban, February 10, 2026, 1:21:33 PM LAYOUT: FP2



- NOTES:**
1. CHAIN LINK FENCE SHALL BE IN LINE WITH PRECAST HEADWALLS. IF FENCE SECTION CANNOT SPAN THE CULVERT, THEN POST SHALL BE MOUNTED TO CONCRETE HEADWALL. SEE DETAIL 3 THIS SHEET.
 2. WINGWALLS SHALL BE PRECAST AND PLACED TO MATCH THE TOP ELEVATION OF HEADWALLS.
 3. CHAIN LINK FENCE BASEPLATE MOUNT ON WINGWALL, SEE DETAIL 8 ON MD1 SHEET.



- NOTES:**
1. NO BACKFILL MATERIAL GREATER THAN 3" DIAMETER SHALL BE AGAINST THE BOX CULVERT.
 2. STREAMBED FINISHED GRADE SHALL MATCH STREAM PROFILE ELEVATION REFERENCE POINT. CHANNEL CROSS SECTIONS SHALL BE AS SHOWN.
 3. LOW FLOW CHANNEL SHALL BE EXCAVATED AFTER THE FINAL LIFT OF STREAMBED MATERIAL IS PLACED AS DIRECTED BY THE ENGINEER.
 4. INSTALL SLASH FROM CULVERT WALL TO 3-FT WIDTH AND FROM CULVERT BASE TO FINISHED GRADE. PLACE SLASH IN 12 INCH LIFTS AND BACKFILL WITH STREAMBED MATERIAL, STREAMBED SAND, AND WATER IN EACH LIFT TO SEAL THE STREAMBED BEFORE PLACING NEXT LIFT.

- GENERAL NOTES:**
1. PRECAST CONCRETE CULVERT, WINGWALLS, HEADWALLS, AND FOOTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, SEE SPECIAL PROVISIONS SECTION 6-20.
 2. BOX CULVERTS AND STREAM WORK BELOW ORDINARY HIGH WATER LINE SHALL ONLY OCCUR BETWEEN JULY 1 AND SEPTEMBER 30 PER HPA APPROVAL CONDITIONS IN APPENDIX A OF THE SPECIAL PROVISIONS.
 3. LARGE WOODY MATERIAL FEATURES, BOULDERS, AND THALWEG LOCATIONS ARE TO BE PLACED AS SHOWN ON PLANS. MINOR CHANGES TO THE WOOD FEATURES CAN BE MADE IN THE FIELD BY THE ENGINEER.
 4. SEE SHEET FP5 FOR STREAMBED MATERIAL GRADATIONS AND PLACEMENT NOTES. SEE DETAIL 1 ON SHEET FP5 FOR STEP-POOL DETAIL.
 5. SEE SHEET 7 FOR LWM CONTROL TABLE AND DEFINITIONS FOR IN-CHANNEL, POINT 2 AND DISTANCE A AND B REFERENCE POINTS.

GEORGE DAVIS CREEK-SHORE LANE NE AGENCY DESIGNED BURIED STRUCTURE NO. 7B (OWNER FURNISHED)

DETAIL 1
NOT TO SCALE



Know what's below.
Call before you dig.

Conformed Set

REVISIONS	DATE	BY	DESIGNED
			N. REDDEN
			B. PURGANAN
			T. PRINCE
			C. BUITRAGO

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME: BL1521075P19T03FP-01_GDC
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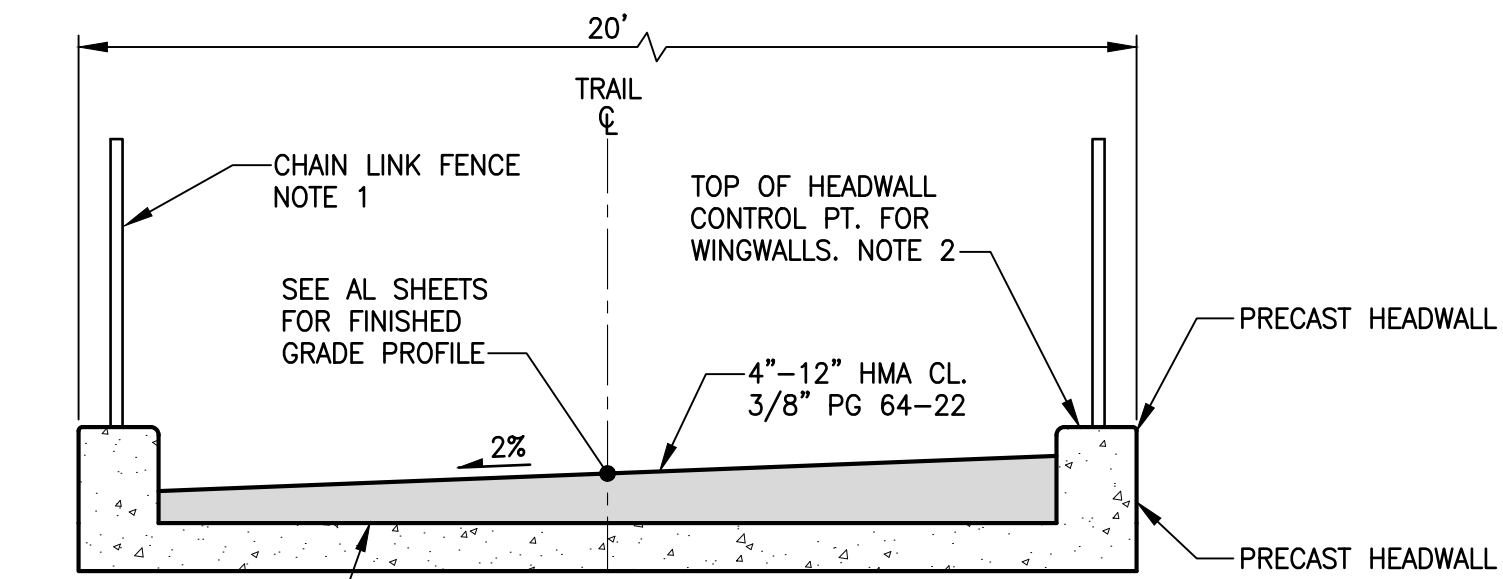
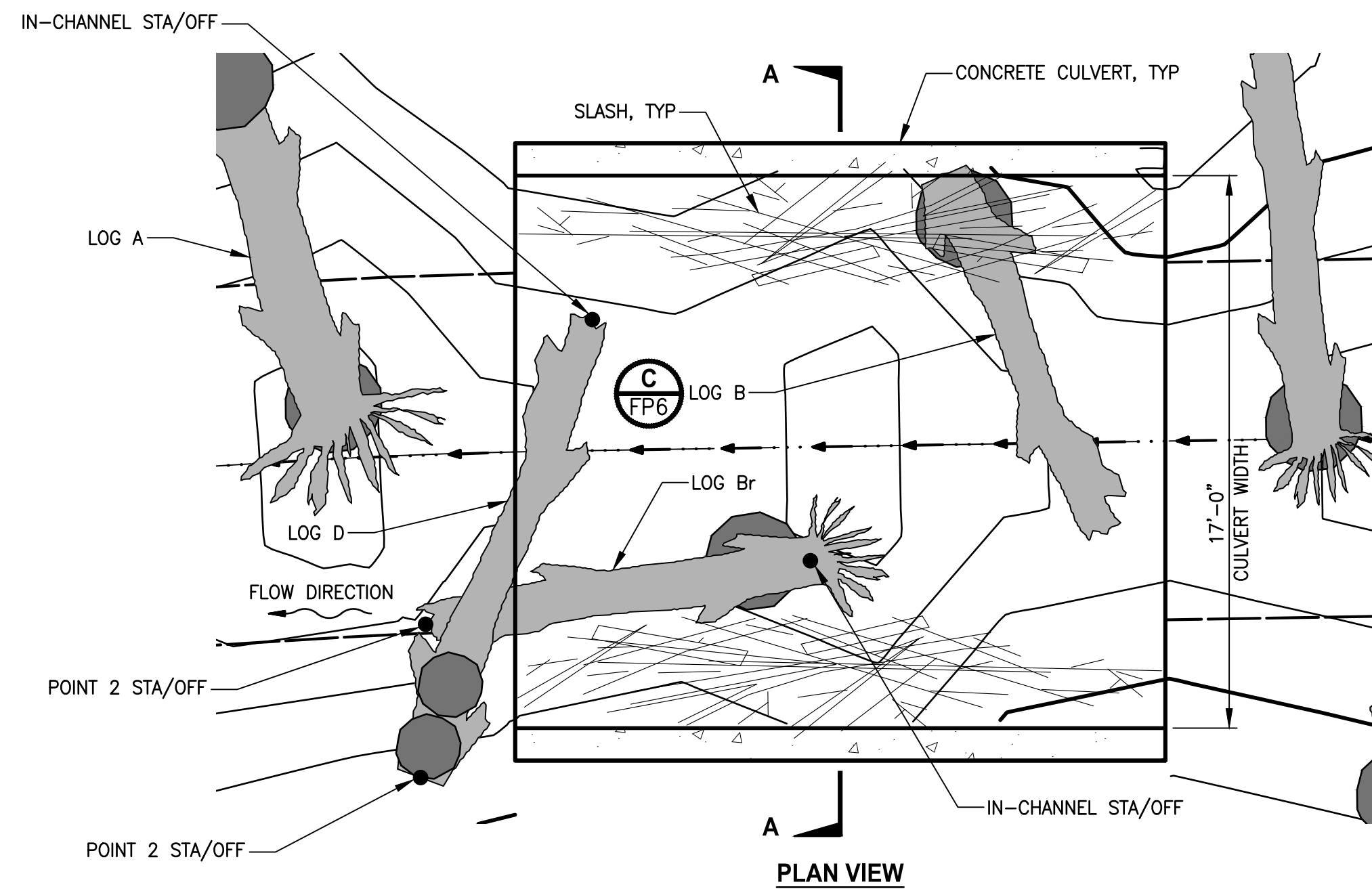
Parametrix
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Ph: 206.394.3700

PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL GEORGE DAVIS CREEK CULVERT REPLACEMENTS
SAMMAMISH, WA

FISH PASSAGE CULVERTS SHORE LANE NE CULVERT DETAILS

SHEET NO. 17 OF 35
FP2

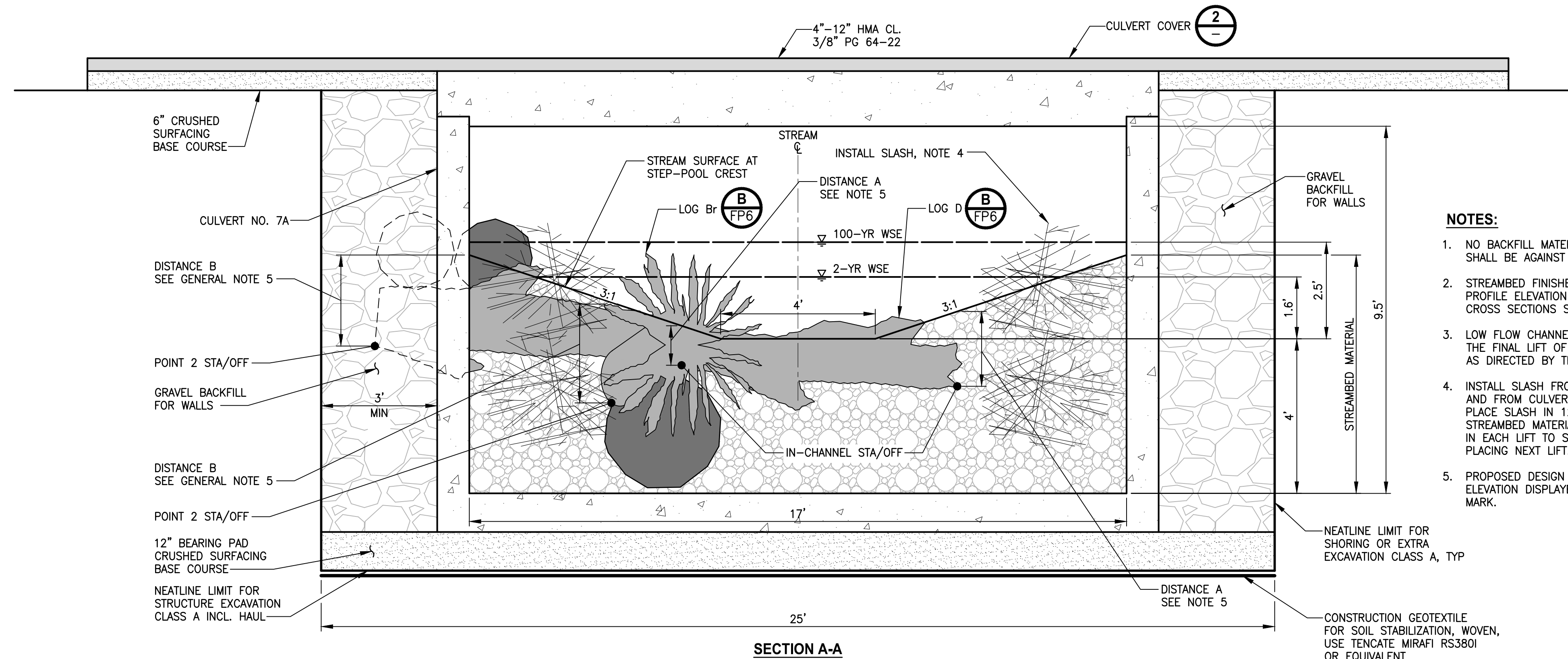
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- NOTES:**
- CHAIN LINK FENCE SHALL BE IN LINE WITH HEADWALLS. IF FENCE SECTION CANNOT SPAN THE CULVERT, THEN POST SHALL BE MOUNTED TO CONCRETE HEADWALL. SEE DETAIL 3 ON SHEET FP2.
 - WINGWALLS SHALL BE PRECAST AND PLACED TO MATCH THE TOP ELEVATION OF HEADWALLS.

CULVERT COVER DETAIL

NOT TO SCALE



NOTES:

- NO BACKFILL MATERIAL GREATER THAN 3" DIAMETER SHALL BE AGAINST THE BOX CULVERT.
- STREAMBED FINISHED GRADE SHALL MATCH STREAM PROFILE ELEVATION REFERENCE POINT. CHANNEL CROSS SECTIONS SHALL BE AS SHOWN.
- LOW FLOW CHANNEL SHALL BE EXCAVATED AFTER THE FINAL LIFT OF STREAMBED MATERIAL IS PLACED AS DIRECTED BY THE ENGINEER.
- INSTALL SLASH FROM CULVERT WALL TO 3-FT WIDTH AND FROM CULVERT BASE TO FINISHED GRADE. PLACE SLASH IN 12 INCH LIFTS AND BACKFILL WITH STREAMBED MATERIAL, STREAMBED SAND, AND WATER IN EACH LIFT TO SEAL THE STREAMBED BEFORE PLACING NEXT LIFT.
- PROPOSED DESIGN 2-YEAR WATER SURFACE ELEVATION DISPLAYED AS ORDINARY HIGH WATER MARK.

GENERAL NOTES:

- PRECAST CONCRETE CULVERT, WINGWALLS, HEADWALLS, AND FOOTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, SEE SPECIAL PROVISIONS SECTION 6-20.
- BOX CULVERTS AND STREAM WORK BELOW ORDINARY HIGH WATER LINE SHALL ONLY OCCUR BETWEEN JULY 1 AND SEPTEMBER 30 PER HPA APPROVAL CONDITIONS IN APPENDIX A OF THE SPECIAL PROVISIONS.
- LARGE WOODY DEBRIS FEATURES, BOULDERS, AND THALWEG LOCATIONS ARE TO BE PLACED AS SHOWN ON PLANS. MINOR CHANGES TO THE WOOD FEATURES CAN BE MADE IN THE FIELD BY THE ENGINEER.
- SEE SHEET FP5 FOR STREAMBED MATERIAL GRADATIONS AND PLACEMENT NOTES. SEE DETAIL 1 ON SHEET FP5 FOR STEP-POOL DETAIL.
- SEE SHEET 7 FOR LWM CONTROL TABLE AND DEFINITIONS FOR IN-CHANNEL, POINT 2 AND DISTANCE A AND B REFERENCE POINTS.

**GEORGE DAVIS CREEK-KC TRAIL
AGENCY DESIGNED BURIED STRUCTURE NO. 7A (OWNER FURNISHED)**

DETAIL

NOT TO SCALE

FP1

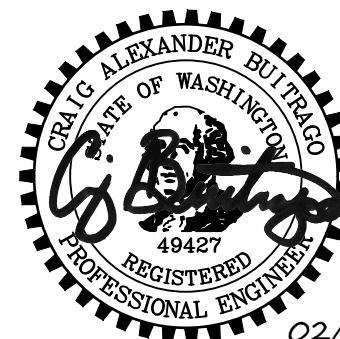


Know what's below.
Call before you dig.

REVISIONS	DATE	BY	DESIGNED
			N. REDDEN
			B. PURGANAN
			T. PRINCE
			C. BUITRAGO

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME: BL1521075P19T03FP-01_GDC
JOB No.: 554-1521-075 P28 T04
DATE: FEBRUARY 2026



02/10/2026

Parametrix
719 2nd Avenue, Suite 200 • Seattle, WA 98104
Ph: 206.394.3700

PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
SAMMAMISH, WA

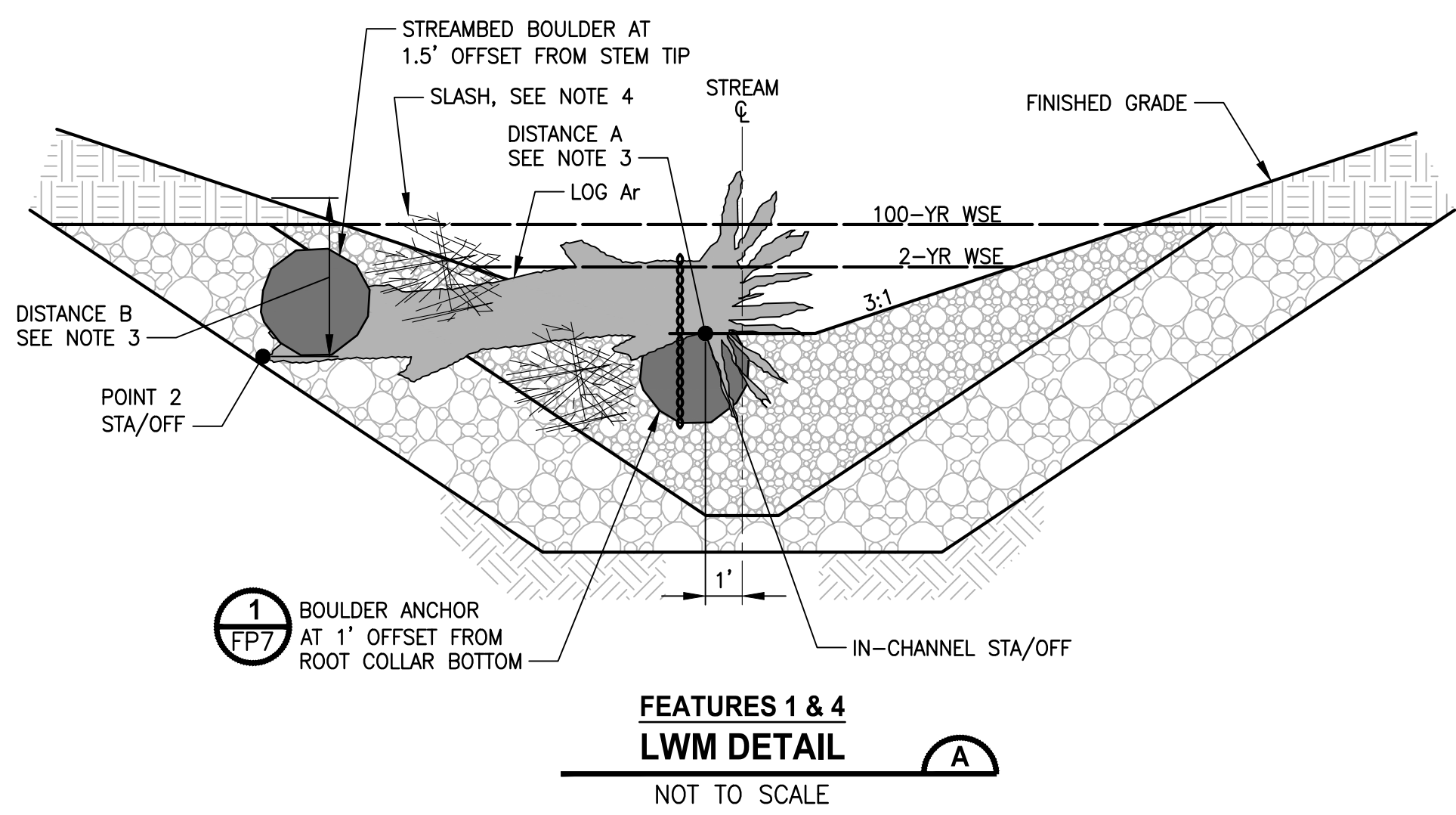
**FISH PASSAGE CULVERTS
ELST CULVERT DETAILS**

SHEET NO.
18 OF 35

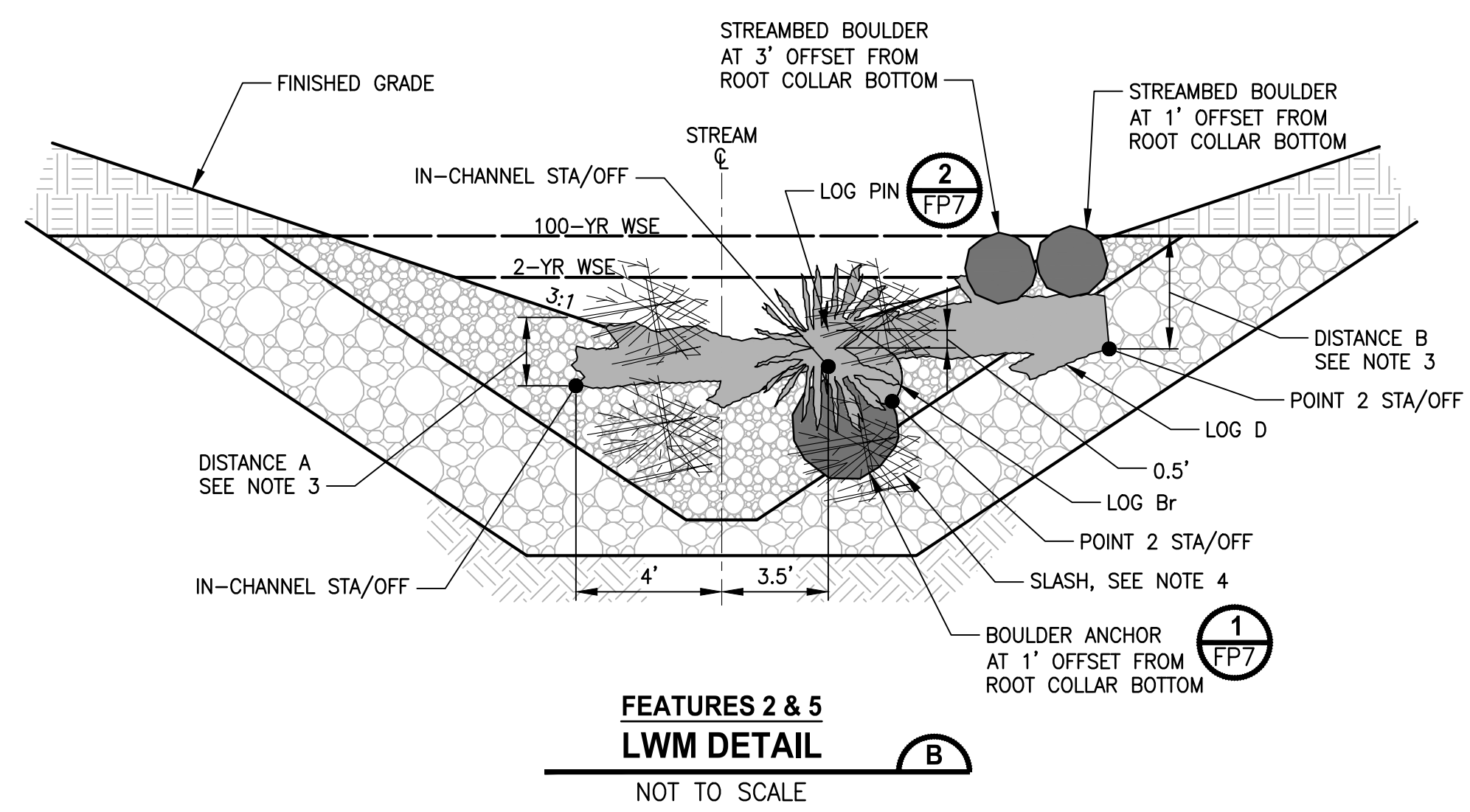
FP3

Conformed Set

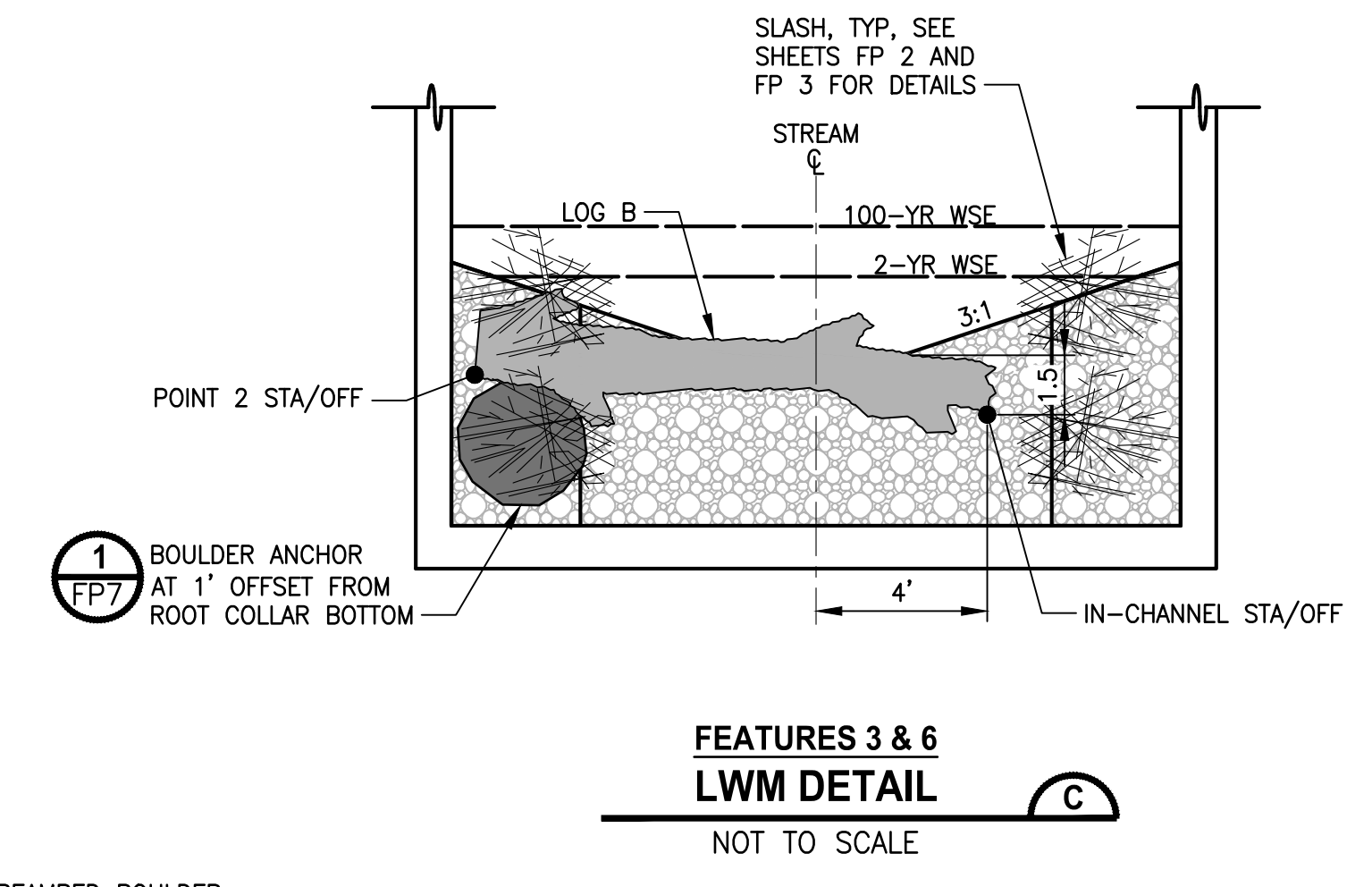
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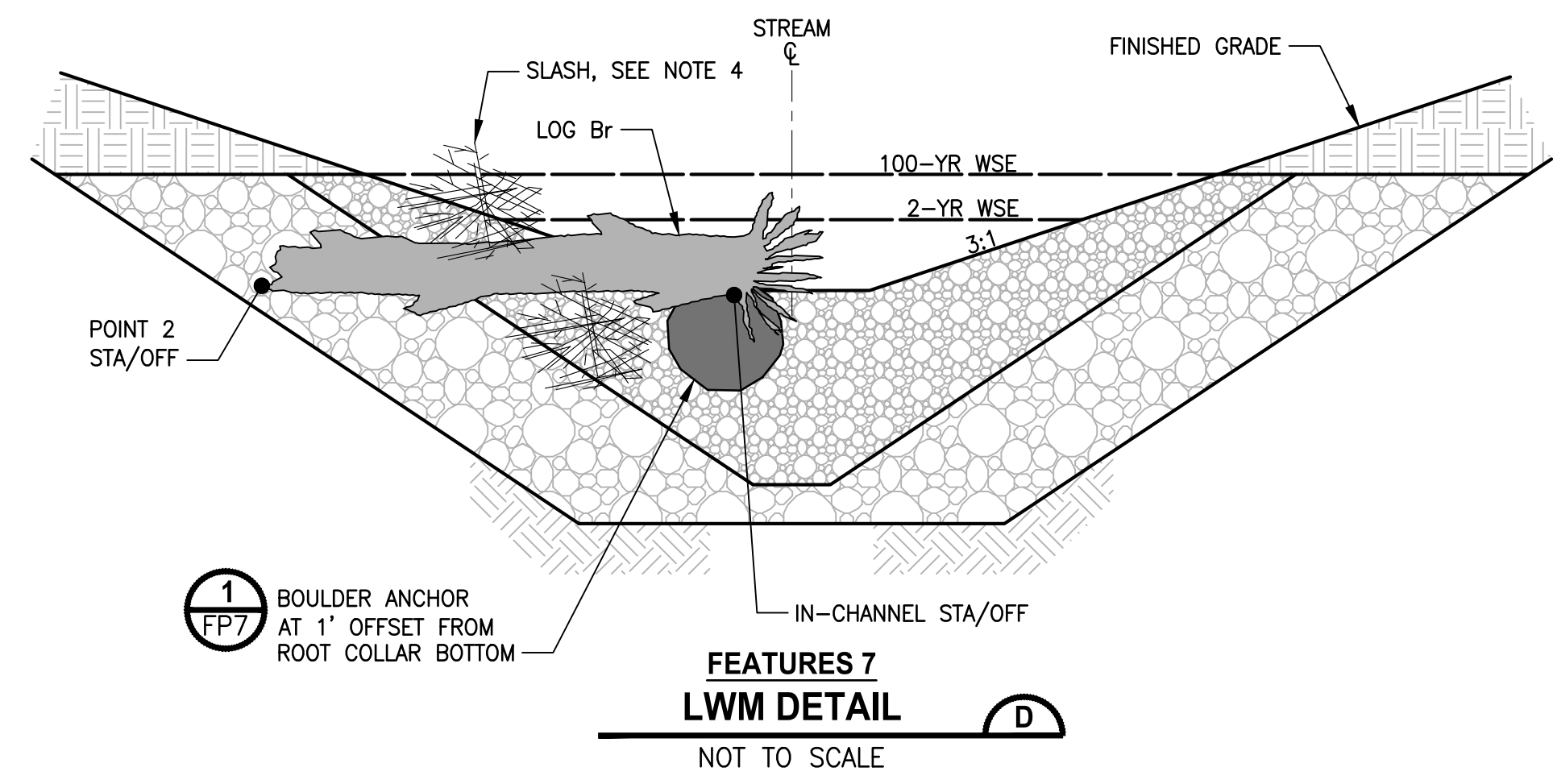
**FEATURES 1 & 4
LWM DETAIL**
NOT TO SCALE



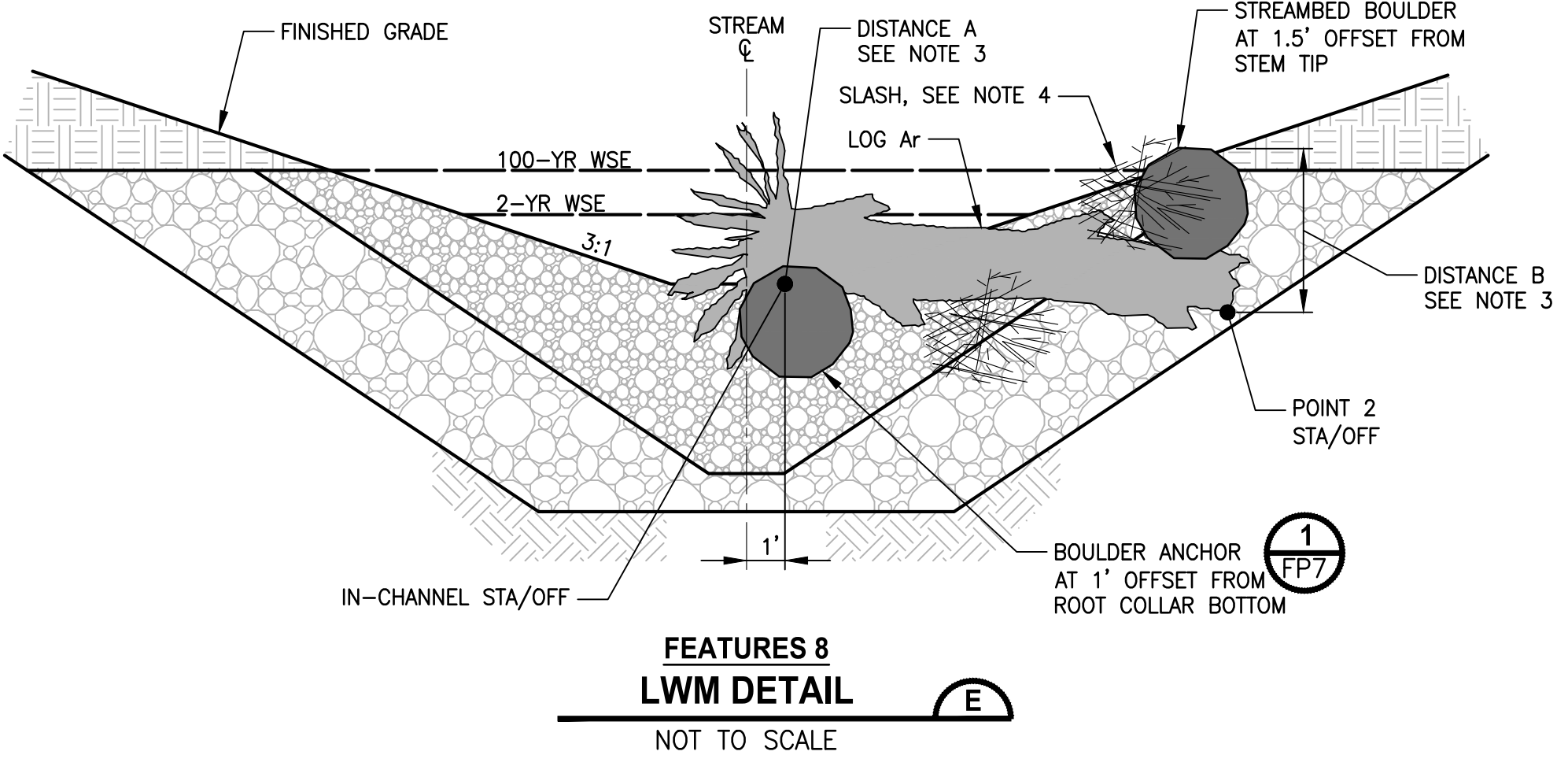
**FEATURES 2 & 5
LWM DETAIL**
NOT TO SCALE



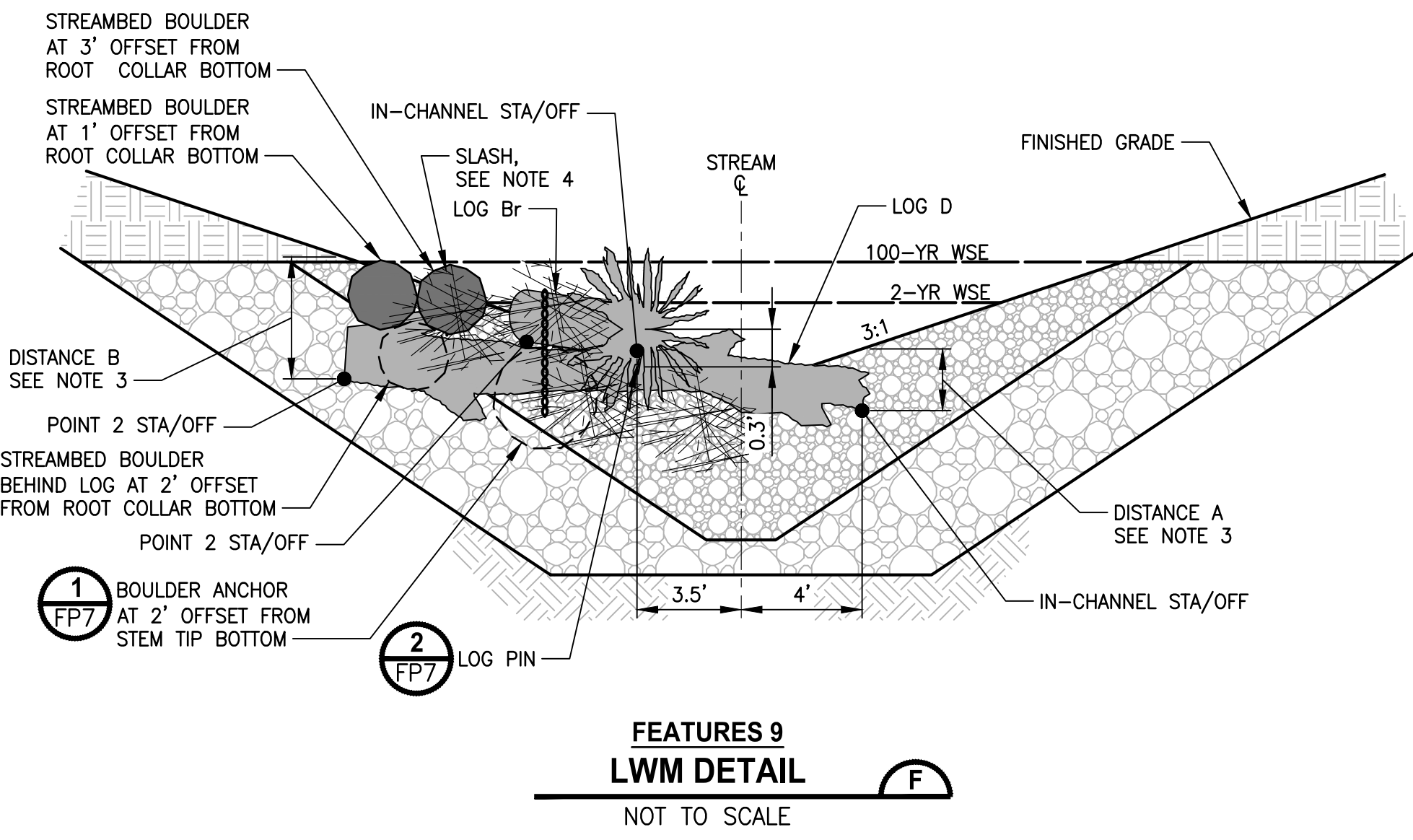
**FEATURES 3 & 6
LWM DETAIL**
NOT TO SCALE



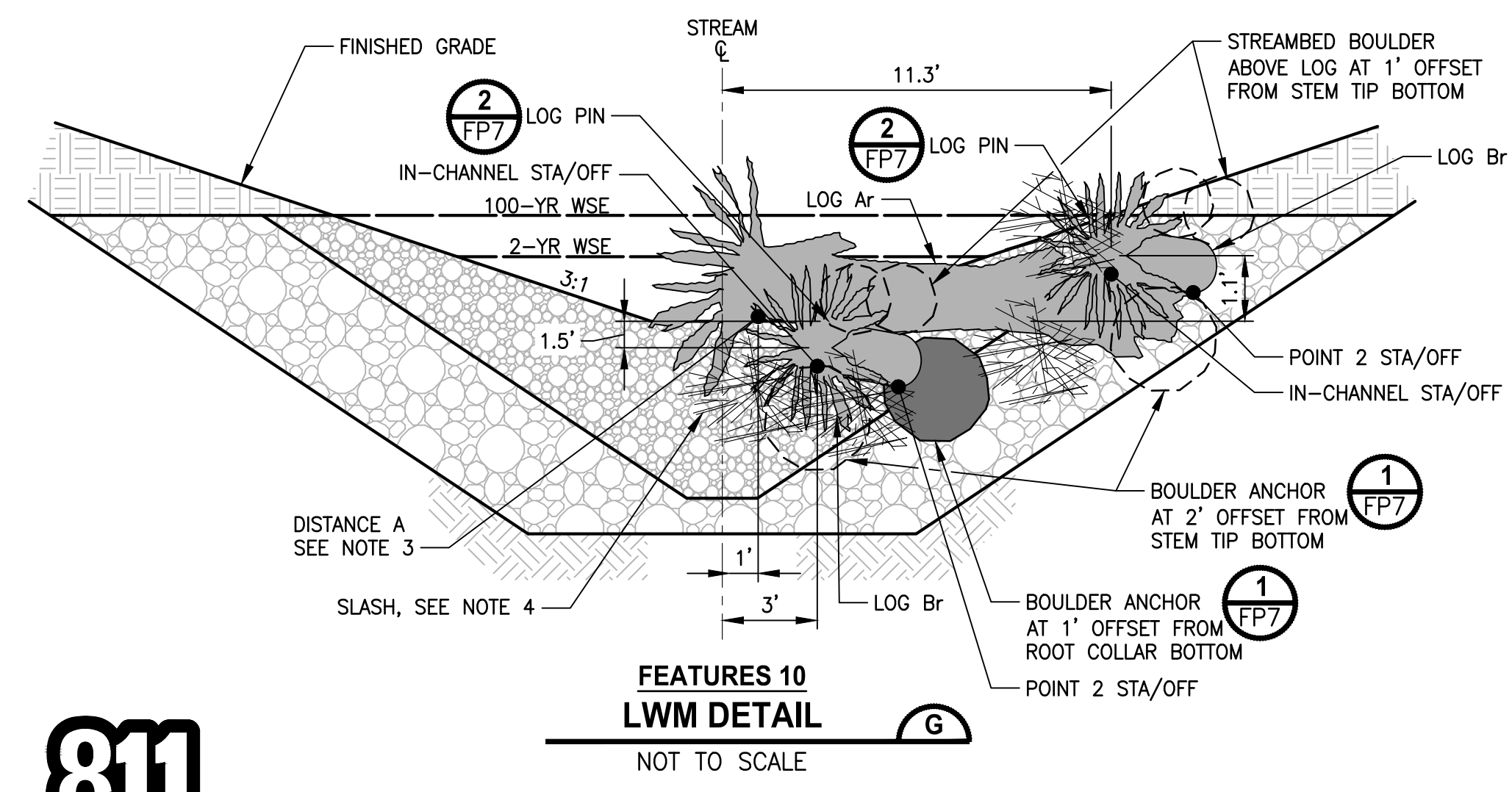
**FEATURES 7
LWM DETAIL**
NOT TO SCALE



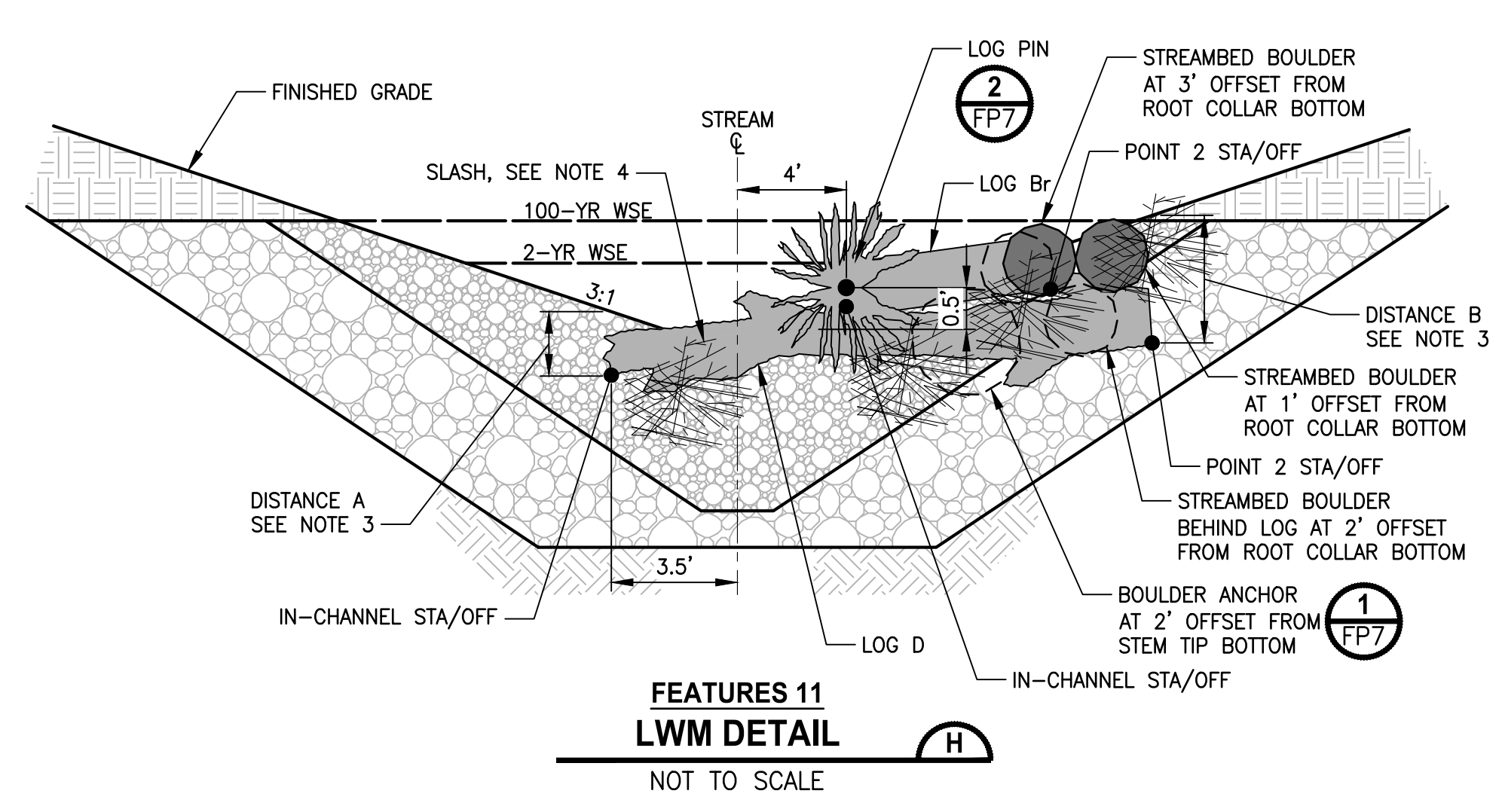
**FEATURES 8
LWM DETAIL**
NOT TO SCALE



**FEATURES 9
LWM DETAIL**
NOT TO SCALE



**FEATURES 10
LWM DETAIL**
NOT TO SCALE



**FEATURES 11
LWM DETAIL**
NOT TO SCALE

GENERAL NOTES:

- SEE SHEET FP7 FOR LWM SCHEDULE AND LWM FEATURE CONTROL TABLE.
- LOCATION AND ORIENTATION OF STREAMBED FEATURES (STEP-POOLS, WOODY MATERIALS, ETC.) ARE APPROXIMATE AND SHALL BE STAKED PER PLAN BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. FINAL LOCATION AND ORIENTATION OF THESE STREAMBED FEATURES SHALL BE DIRECTED BY THE ENGINEER.
- SEE SHEET 7 FOR LWM CONTROL TABLE AND DEFINITIONS FOR IN-CHANNEL, POINT 2 AND DISTANCE A AND B REFERENCE POINTS.
- INSTALL 1 CY OF SLASH AROUND EACH LOG AS DIRECTED BY ENGINEER.



Know what's below.
Call before you dig.

REVISIONS	DATE	BY	DESIGNED
			N. REDDEN
			B. PURGANAN
			T. PRINCE
			C. BUITRAGO

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME: BL1521075P19T03FP-01_GDC
 JOB No.: 54-1521-075 P28 T04
 DATE: FEBRUARY 2026



Parametrix
 719 2nd Avenue, Suite 200 • Seattle, WA 98104
 Ph: 206.394.3700

PROJECT NAME
**EAST LAKE SAMMAMISH
 MASTER PLAN TRAIL
 GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
 SAMMAMISH, WA

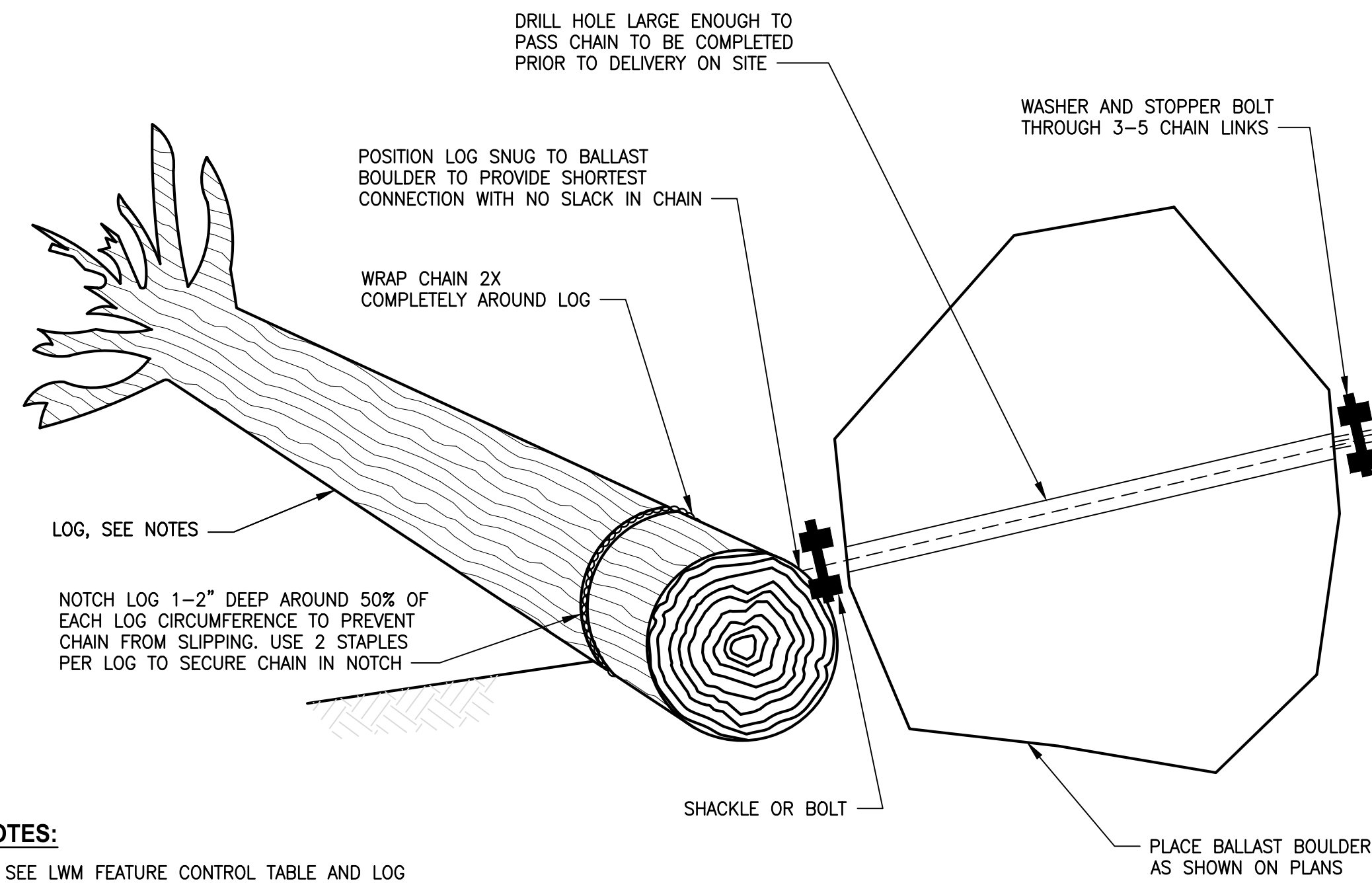
**FISH PASSAGE CULVERTS
 STREAM SECTIONS AND DETAILS**

SHEET NO.
21 OF 35

FP6

Conformed Set

LAYOUT: FP7
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 PLOTTED BY: purgabut DATE: Tuesday, February 10, 2026 1:45:10 PM



NOTES:

- SEE LWM FEATURE CONTROL TABLE AND LOG SCHEDULE FOR LOG TYPE AND SIZE AND FOR STREAMBED BOULDERS, BOULDER ANCHORS, AND LOG PINS USED.
- SEE SHEETS FP2 AND FP3 FOR LWM FEATURE DETAILS WITHIN BOX CULVERTS.

**ISOMETRIC DETAIL
BOULDER ANCHOR
DETAIL**

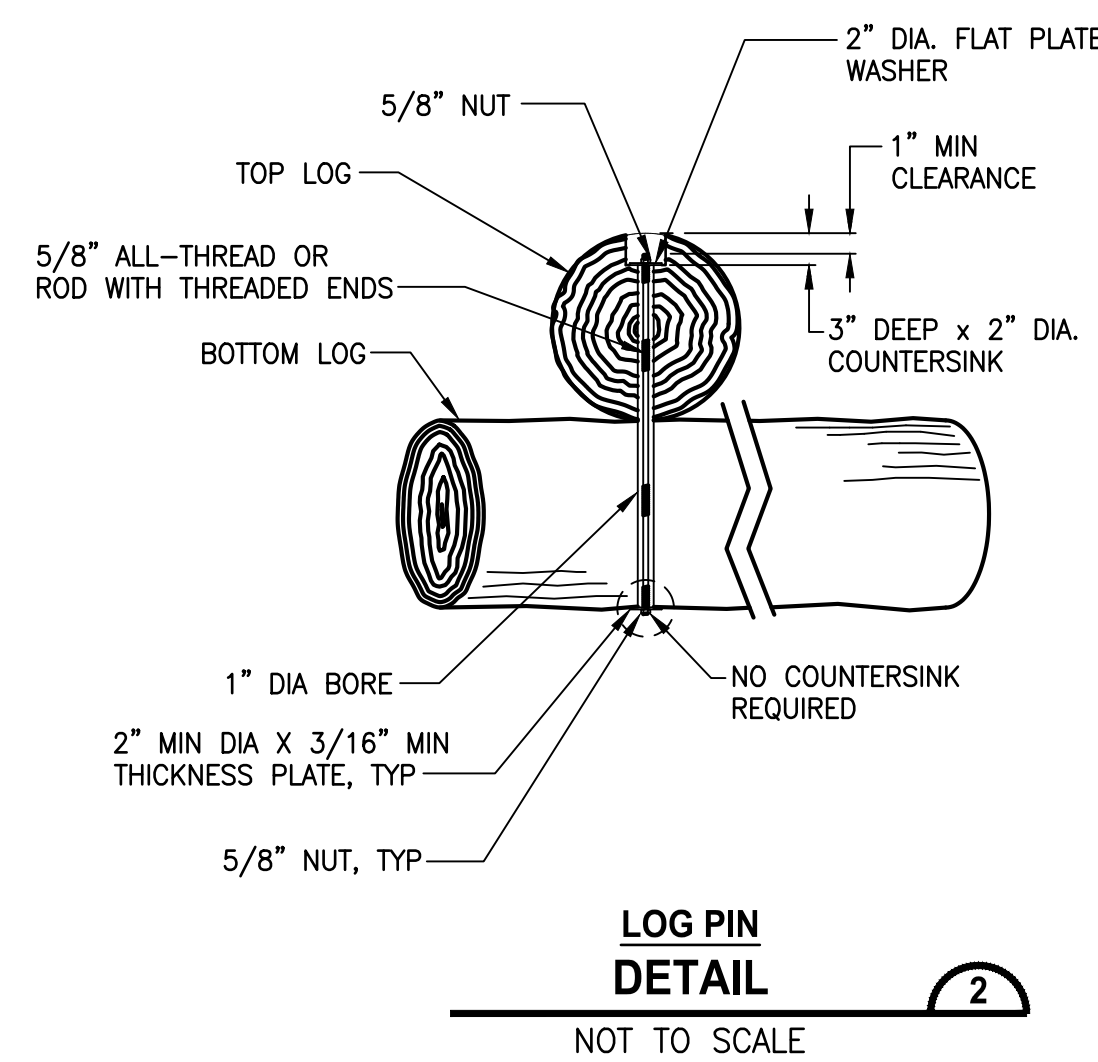
NOT TO SCALE

LWM FEATURE CONTROL TABLE									
LWM FEATURE	LOGS	IN-CHANNEL STA/OFF (G-LINE)	POINT 2 STA/OFF (G-LINE)	DISTANCE A (FT) (SEE NOTE 5)	DISTANCE B (FT) (SEE NOTE 5)	BOULDER TYPE (QTY)	BOULDER ANCHOR (QTY)	LOG PIN (QTY)	DETAIL REFERENCE
LWM #1	LOG Ar	12+50 (1' LT)	12+47 (13' LT)	N/A	4.2	TYPE 3 (1)	1	-	A
	LOG Br	12+64 (4' RT)	12+52 (5' RT)	N/A	3.0	-	1	-	B
LWM #2	LOG D	12+56 (2' LT)	12+50 (12' RT)	2.5	2.7	TYPE 2 (2)	-	1	B
	LOG B	12+73 (3' RT)	12+68 (8' LT)	2.5	2.4	-	1	-	C
LWM #3	LOG Ar	12+82 (2' LT)	12+79 (13' LT)	N/A	4.2	TYPE 3 (1)	1	-	A
	LOG Br	12+97 (4' RT)	12+85 (5' RT)	N/A	3.0	-	1	-	B
LWM #4	LOG D	12+90 (4' LT)	12+85 (10' RT)	2.5	2.7	TYPE 2 (2)	-	1	B
	LOG B	13+06 (3' RT)	13+01 (8' LT)	2.5	2.4	-	1	-	C
LWM #5	LOG Br	13+13 (0.3' RT)	13+01 (8' LT)	N/A	3.8	-	1	-	D
	LOG Ar	13+18 (1' RT)	13+15 (12' RT)	N/A	4.2	TYPE 3 (1)	1	-	E
LWM #6	LOG Br	13+30 (3' LT)	13+19 (9' LT)	0.2	1.2	-	1	-	F
	LOG D	13+25 (3' RT)	13+24 (12' LT)	2.2	3.4	TYPE 2 (3)	-	1	F
LWM #7	LOG Ar	13+40 (1' RT)	13+37 (13' RT)	N/A	4.2	-	1	-	G
	LOG Br	13+42 (3' RT)	13+31 (7' RT)	3.5	1.5	TYPE 2 (2)	1	1	G
LWM #8	LOG Br	13+42 (7' RT)	13+31 (11' RT)	3.7	1.7	TYPE 2 (2)	1	1	G
	LOG Br	13+51 (4' LT)	13+42 (12' LT)	0.2	1.2	TYPE 2 (1)	1	-	H
LWM #9	LOG D	13+50 (4' RT)	13+48 (11' RT)	2.2	3.4	TYPE 2 (3)	-	1	H

GENERAL NOTES:

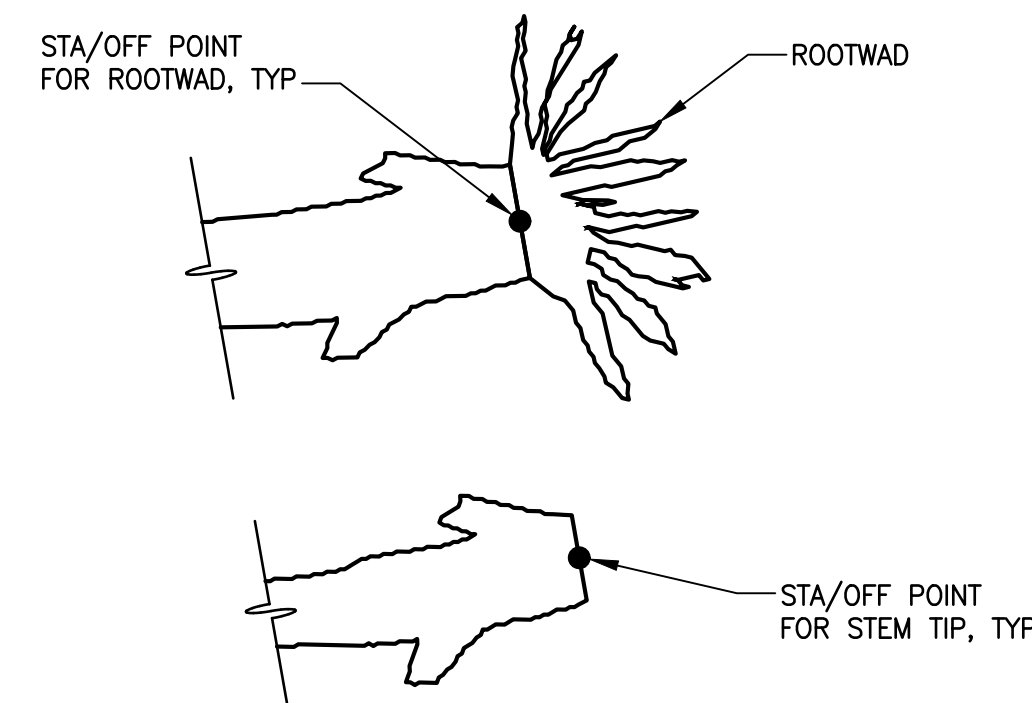
- ALL RODS, BOLTS, CHAINS, AND HARDWARE SHALL BE STEEL PER SPECIAL PROVISIONS 8-34.
- SEE LWM FEATURE CONTROL TABLE AND LOG SCHEDULE FOR LOG TYPE AND SIZE AND FOR STREAMBED BOULDERS, BOLDER ANCHORS, AND LOG PINS USED.
- SEE SHEET FP6 FOR LWM FEATURE DETAILS AND LOCATIONS FOR INSTALLATION OF BOULDER ANCHORS, LOG PINS, AND STREAMBED BOULDERS FOR LOG BALLAST. SEE SHEETS FP2 AND FP3 FOR LWM FEATURE DETAILS WITHIN BOX CULVERTS.
- SEE SPECIAL PROVISION "WOODY MATERIAL" FOR CONSTRUCTION REQUIREMENTS AND TABLE THIS SHEET FOR LOG TYPE, DISTANCE A, DISTANCE B, AND STATION/OFFSETS.
- DISTANCE A REFERS TO VERTICAL DISTANCE BETWEEN FINISHED GRADE AND STEM TIP BOTTOM. DISTANCE B REFERS TO VERTICAL DISTANCE BETWEEN FINISHED GRADE AND ROOTWAD COLLAR BOTTOM. POSITIVE VALUES INDICATE BURIAL N/A INDICATES LOG IS AT GRADE.

LOG SCHEDULE						
LOG TYPE	LOG NAME	LOG LENGTH (FT)	LOG DIAMETER (FT)	ROOTWAD LENGTH (FT)	ROOTWAD DIAMETER (FT)	VOLUME (FT ³)
Ar	LOG WITH ROOTWAD 1	12	2	3	6	37.8
Br	LOG WITH ROOTWAD 2	12	1.5	2.25	4.5	21.3
B	LOG WITHOUT ROOTWAD 1	12	1.5	-	-	21.3
D	LOG WITHOUT ROOTWAD 2	15	1.5	-	-	26.5



**LOG PIN
DETAIL**

NOT TO SCALE



**LOG LOCATION
DETAIL**

NOT TO SCALE



Know what's below.
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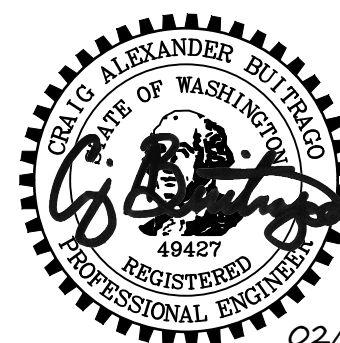
REVISIONS	DATE	BY	DESIGNED
			N. REDDEN
			B. PURGANAN
			T. PRINCE
			C. BUITRAGO

ONE INCH AT FULL SCALE.
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FILE NAME
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JOB No.
54-1521-075 P28 T04

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02/10/2026

Parametrix
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Ph: 206.394.3700

PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
SAMMAMISH, WA

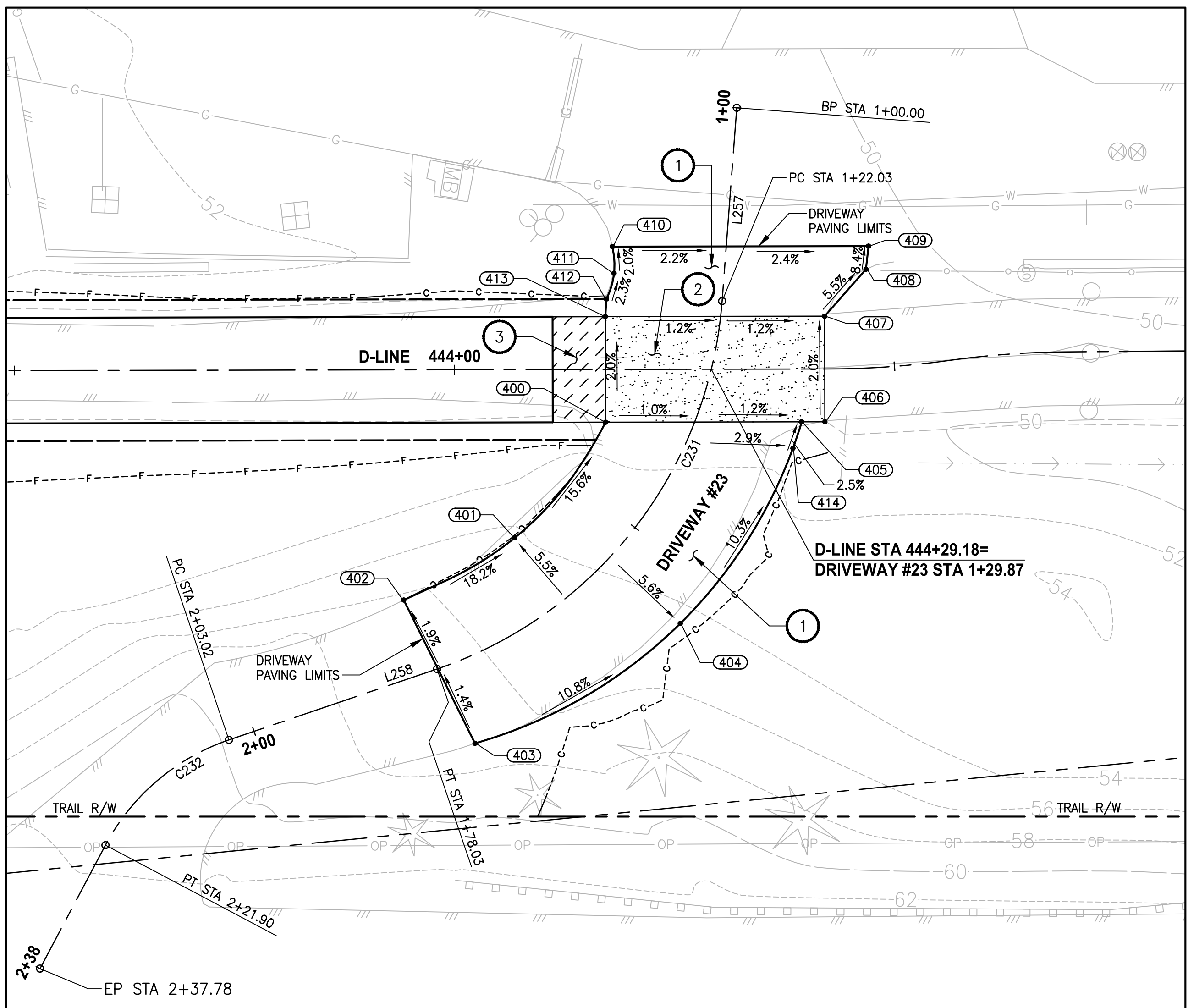
**FISH PASSAGE CULVERTS
STREAM SECTIONS AND DETAILS**

SHEET NO.
22 OF 35

FP7

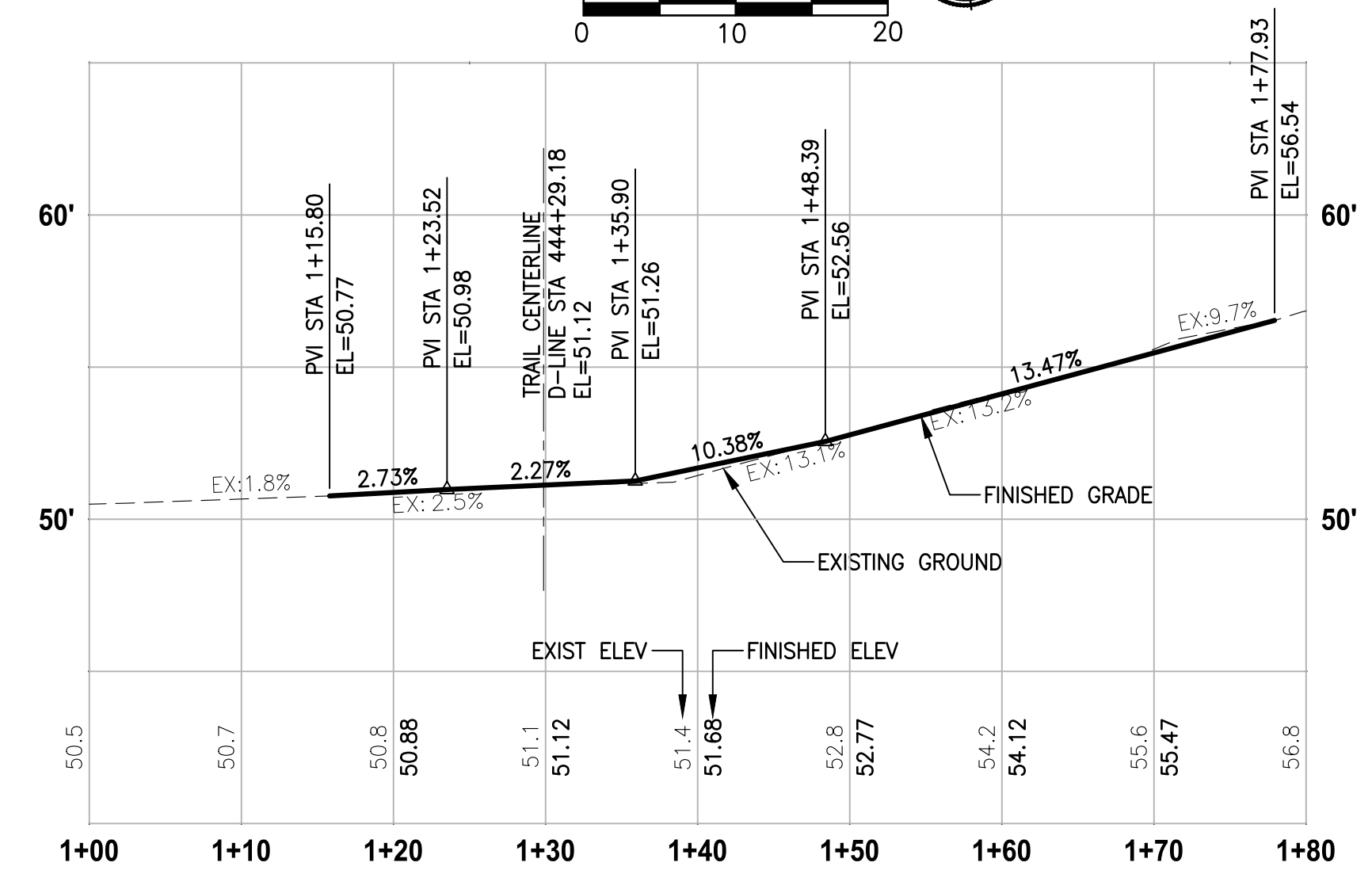
Conformed Set

PATH: U:\PSO\Projects\Clients\1521-KingCo\554-1521-075-ELST\99Secs\CADD\Phase 19\T03_Civil\Draw-GDC_2025\DWG\ PLOTTED BY: purgaban DATE: Tuesday, February 10, 2026 7:04:36 AM LAYOUT: DP2



- CONSTRUCTION NOTES:**
- HMA DRIVEWAY PAVEMENT SECTION SHALL BE 4" HMA CL 1/2 PG 58H-22 OVER 8" CRUSHED SURFACING BASE COURSE.
 - PATTERNED CONCRETE INTERSECTION, SEE 2 MDS
 - CROSSWALK CONCRETE PAD, SEE DETAIL 2 ON SHEET MD4.

- LEGEND:**
- PATTERNED CONCRETE DRIVEWAY
 - HMA
 - CROSSWALK CONCRETE PAD
 - DITCH EXCAVATION AND CONSTRUCTION, SEE DETAIL 1 THIS SHEET



DRIVEWAY #23 POINT TABLE

POINT #	D-LINE STATION	OFFSET	ELEVATION	DESCRIPTION
400	444+17.15	6.00' RT	51.37	CONC-ASPH
401	444+06.81	19.11' RT	53.87	CURVE MIDPOINT
402	443+94.18	26.15' RT	56.47	ME-CURVE PT
403	444+02.24	42.45' RT	56.76	ME-CURVE PT
404	444+25.59	28.89' RT	54.03	CURVE MIDPOINT
405	444+39.44	6.00' RT	51.12	CONC-ASPH
406	444+42.07	6.00' RT	51.08	CONC-ASPH
407	444+42.07	6.00' LT	50.84	CONC-ASPH
408	444+47.31	11.21' LT	50.50	ME-ASPH
409	444+47.81	13.83' LT	50.28	ME-ASPH
410	444+17.95	13.95' LT	50.96	ME-CURVE PC
411	444+18.15	10.91' LT	51.02	CURVE MIDPOINT
412	444+17.27	8.00' LT	51.09	CURVE PT
413	444+17.15	6.00' LT	51.13	CONC
414	444+38.44	9.00' RT	51.19	CURVE PT

DRIVEWAY #23 LINE TABLE

LINE	LENGTH	BEARING	BEGIN EASTING	BEGIN NORTHING	END EASTING	END NORTHING
L257	22.03	S79° 15' 26"E	1335874.25	227235.53	1335895.89	227231.43
L258	24.98	S12° 24' 07"E	1335933.82	227194.58	1335939.19	227170.18

DRIVEWAY #23 CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	BEGIN EASTING	BEGIN NORTHING	END EASTING	END NORTHING
C231	56.01	48.00	66°51'19"	1335895.89	227231.43	1335933.82	227194.58
C232	18.88	25.00	43°16'44"	1335939.19	227170.18	1335949.51	227154.90



DRIVEWAY #23 (SHEET AL2)
 HORIZ: 1"=10'
 VERT: 1"=5'

Conformed Set

REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			B. PURGANAN
			Y. HO
			C. BUITRAGO

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
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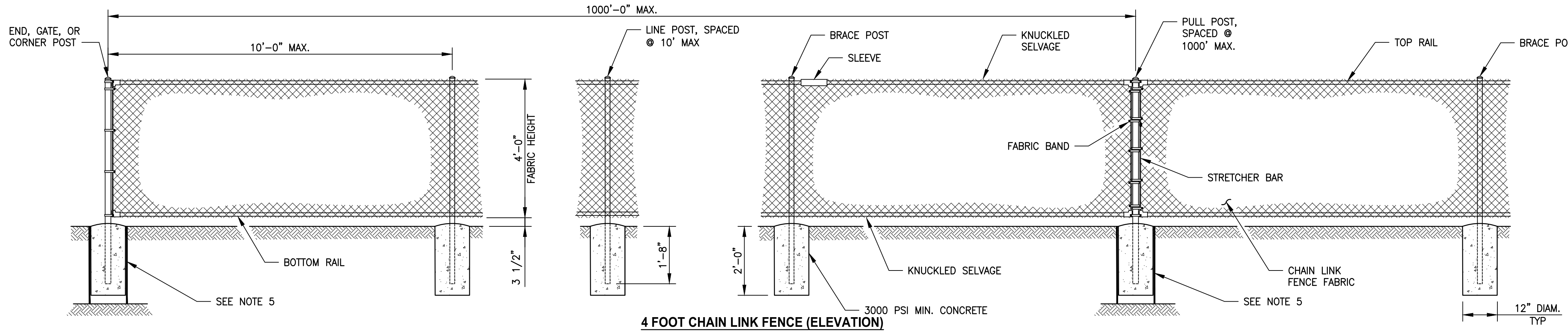
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PROJECT NAME
**EAST LAKE SAMMAMISH
 MASTER PLAN TRAIL
 GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
 SAMMAMISH, WA

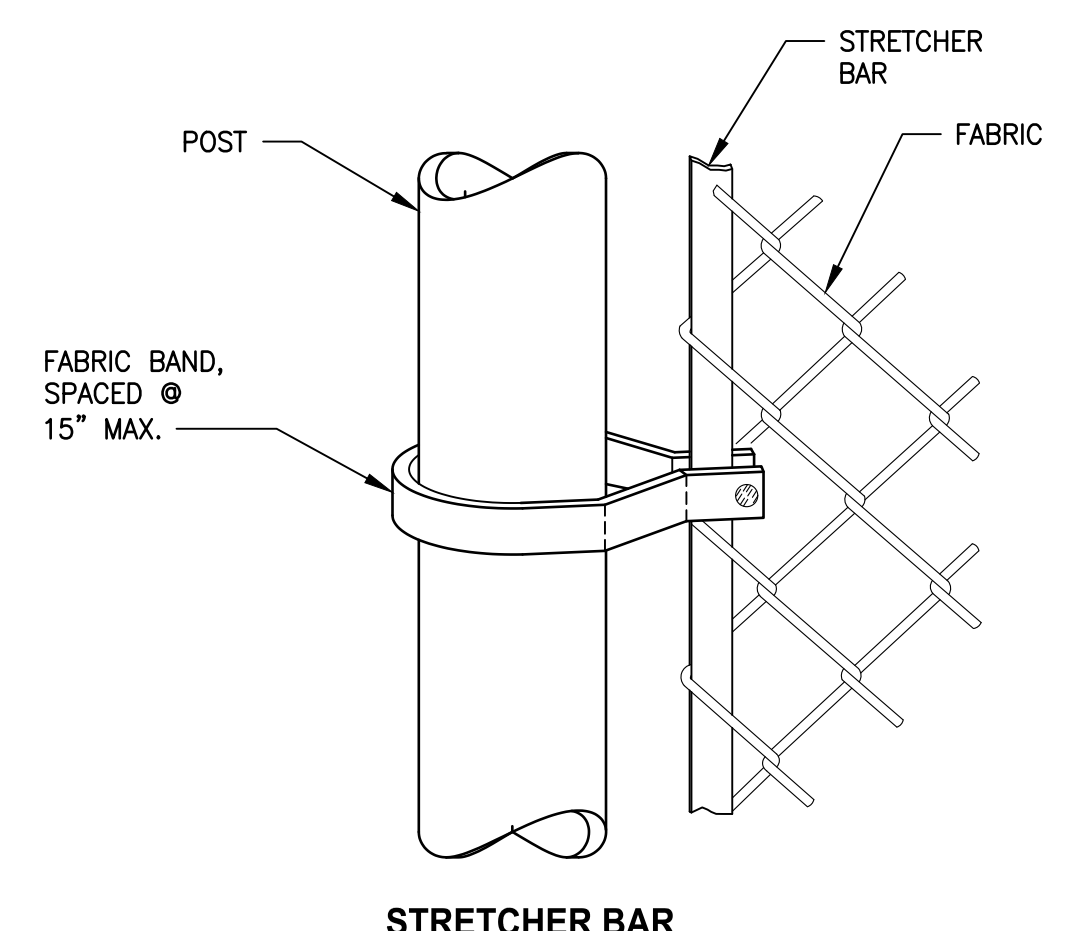
DRIVEWAY PLAN AND PROFILE

SHEET NO.
 24 OF 35
DP2

LAYOUT: MD1
 PATH: U:\PSO\Projects\Clients\1521-KingCo\554-1521-075-ELST\99Specs\CADD\Phase 19\T03_Civil\Draw-GDC_2025\DWG\ PLOTTED BY: purgaban DATE: Tuesday, February 10, 2026 7:04:46 AM



4 FOOT CHAIN LINK FENCE (ELEVATION) DETAIL 1
NOT TO SCALE

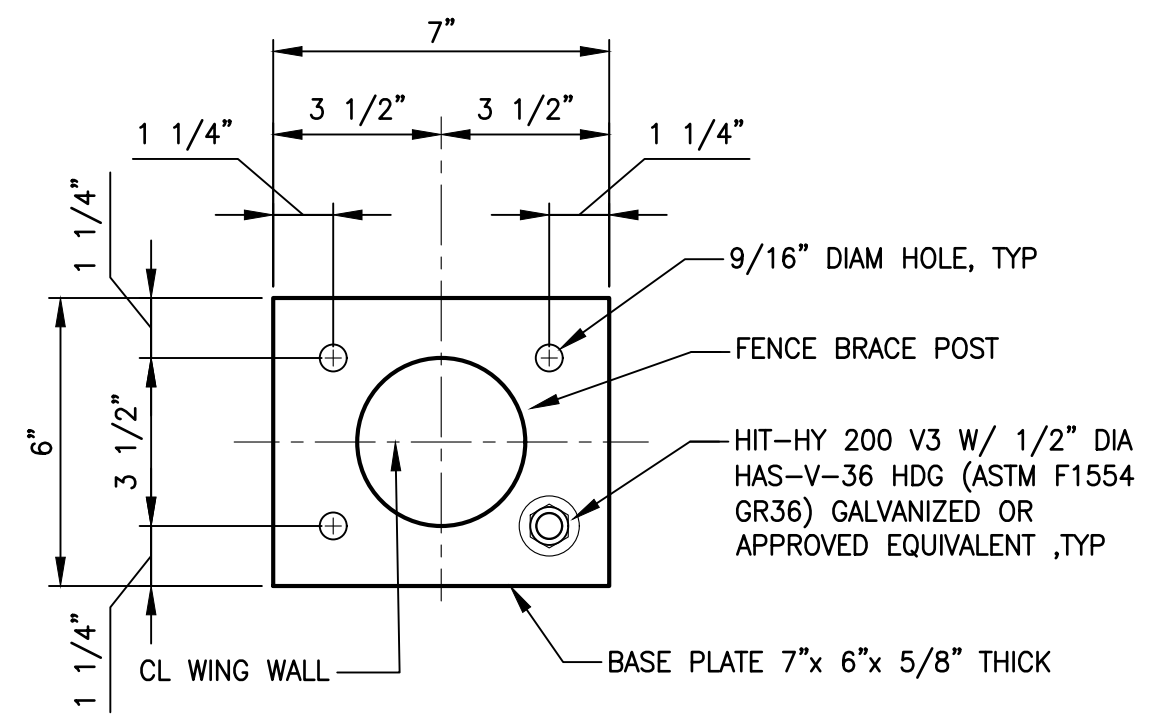
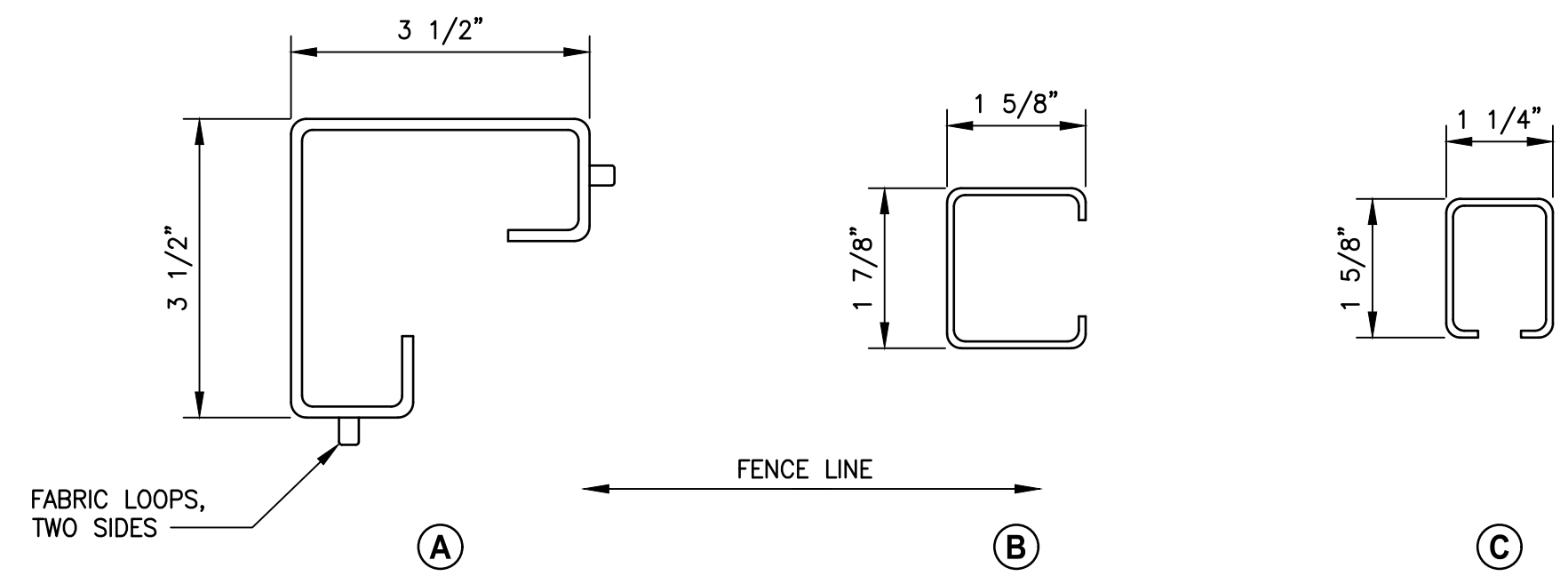


STRETCHER BAR DETAIL 2
NOT TO SCALE

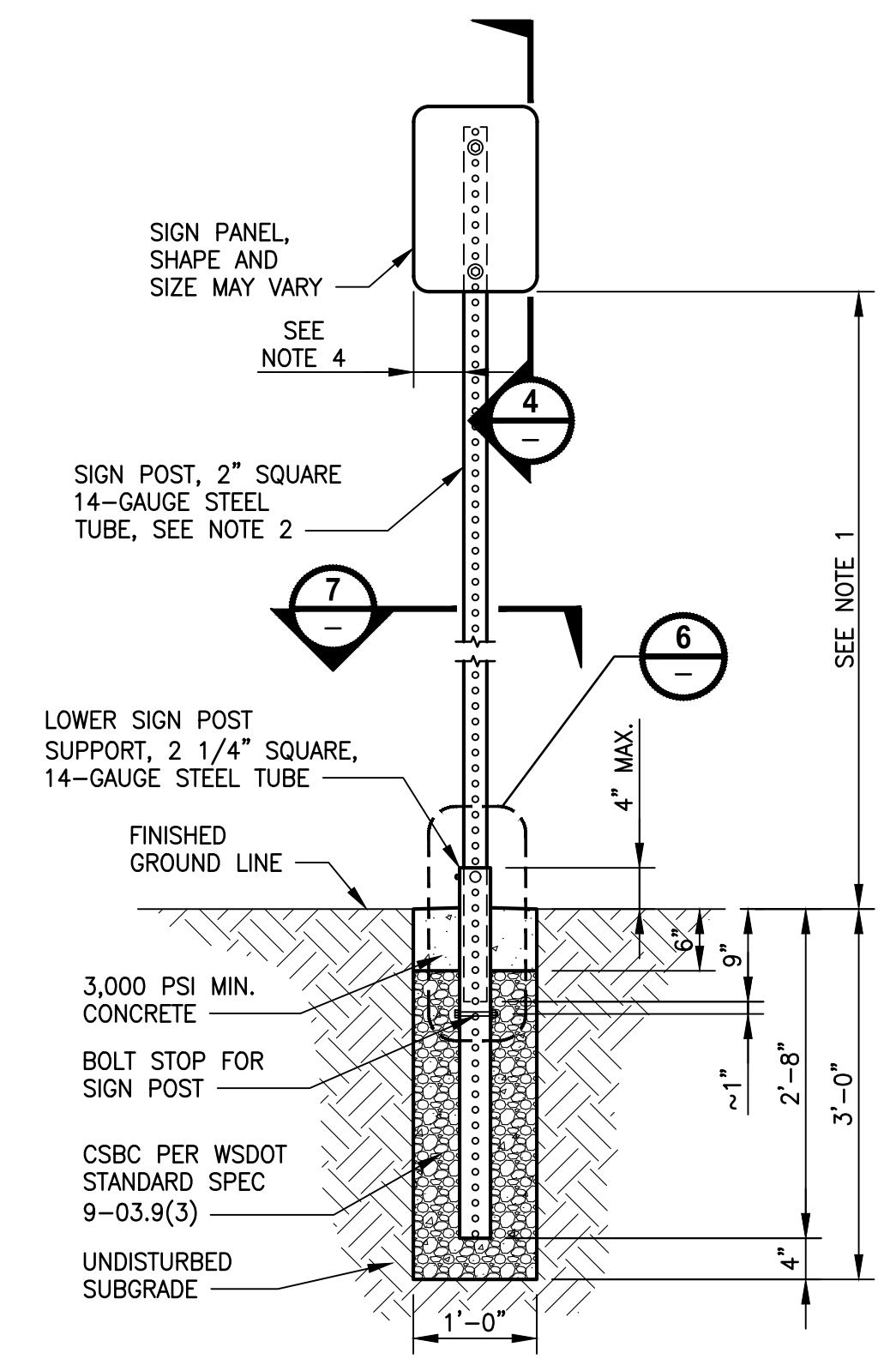
POST AND RAIL SPECIFICATIONS

MEMBER	PIPE	CONC.	
	NOM. SIZE (SCH 40)	SECTION	WEIGHT (LB/FT)
END, CORNER, OR PULL POST	2 7/8" DIAM.	(A)	5.10
LINE OR BRACE POST	2 7/8" DIAM.	(B)	2.40
BRACE, TOP RAIL OR BOTTOM RAIL	1 5/8" DIAM.	(C)	1.35
GATE POST	3 1/2" DIAM.		

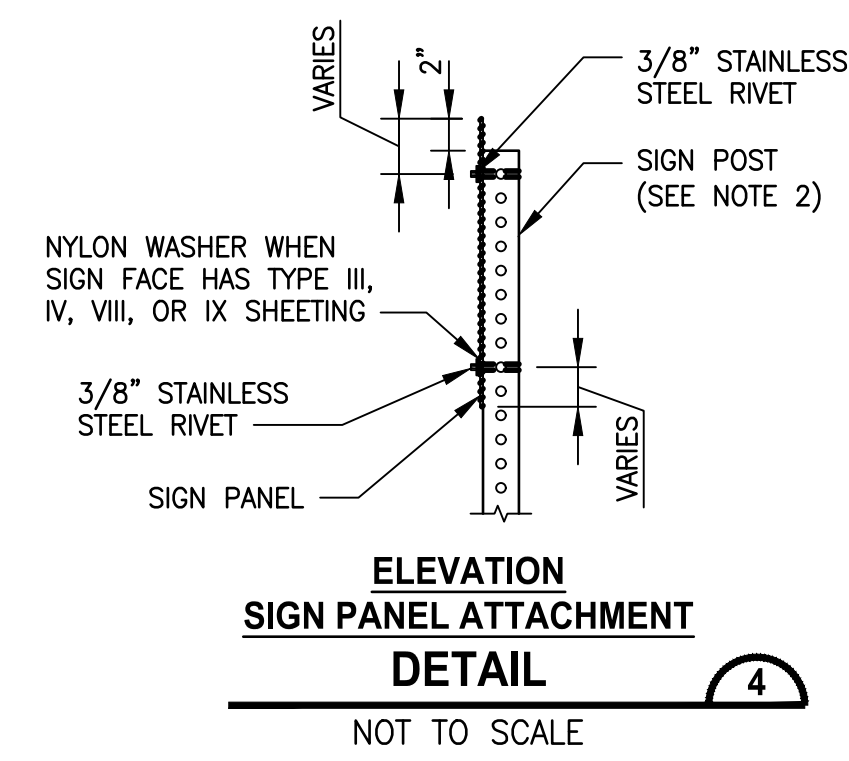
- NOTES:**
- CHAIN LINK FENCE FABRIC SHALL BE HOT-DIP GALVANIZED WITH A MINIMUM OF 0.8 OUNCE PER SQUARE FOOT OF SURFACE AREA.
 - FENCING MATERIAL SHALL BE COATED WITH AN ULTRAVIOLET-INSENSITIVE PLASTIC OR OTHER INERT MATERIAL AT LEAST 2 MILS IN THICKNESS. ANY PRETREATMENT OR COATING SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE COLOR SHALL MATCH FEDERAL STANDARD NUMBER *** 595 B 27038 BLACK ***, OR BE AS APPROVED BY THE ENGINEER.
 - TENSION WIRE SHALL BE PLACED WITHIN THE LIMITS OF THE FIRST FULL FABRIC WEAVE.
 - DETAILS ARE ILLUSTRATIVE AND SHALL NOT LIMIT HARDWARE DESIGN OR POST SELECTION OF ANY PARTICULAR FENCE TYPE.
 - SONOTUBE OR EQUIVALENT SHALL ONLY BE USED IN SLOPE PROTECTION OR STEEPER SLOPED AREAS. SONOTUBES SHALL BE INSTALLED AT EVERY OTHER POST LOCATION PER PLAN LENGTH SHOWN ON THE AL SHEETS.



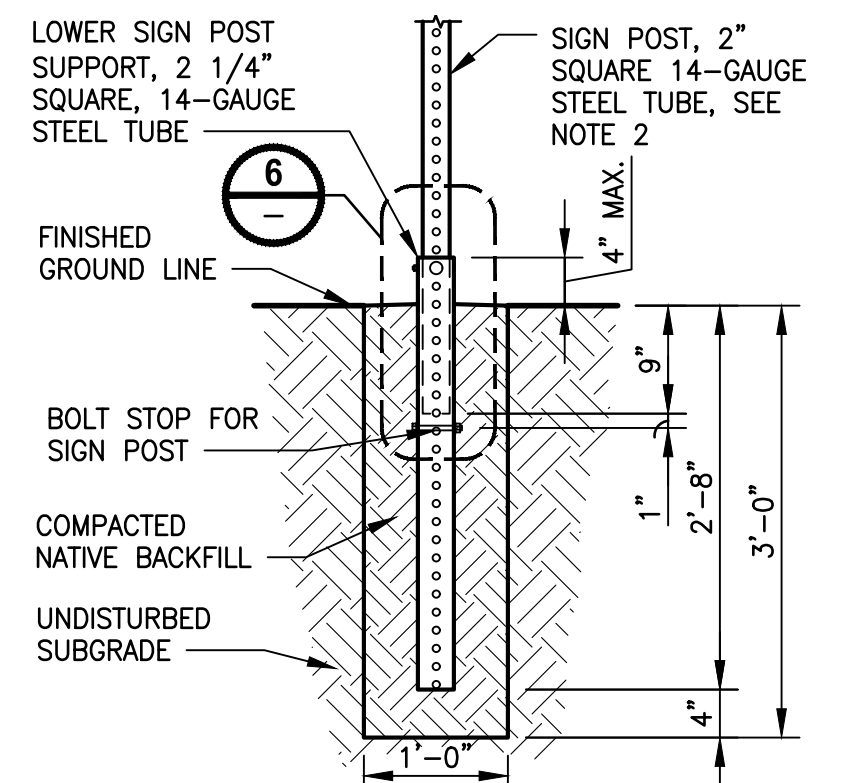
CULVERT WINGWALLS - BASE PLATE DETAIL 8
NOT TO SCALE



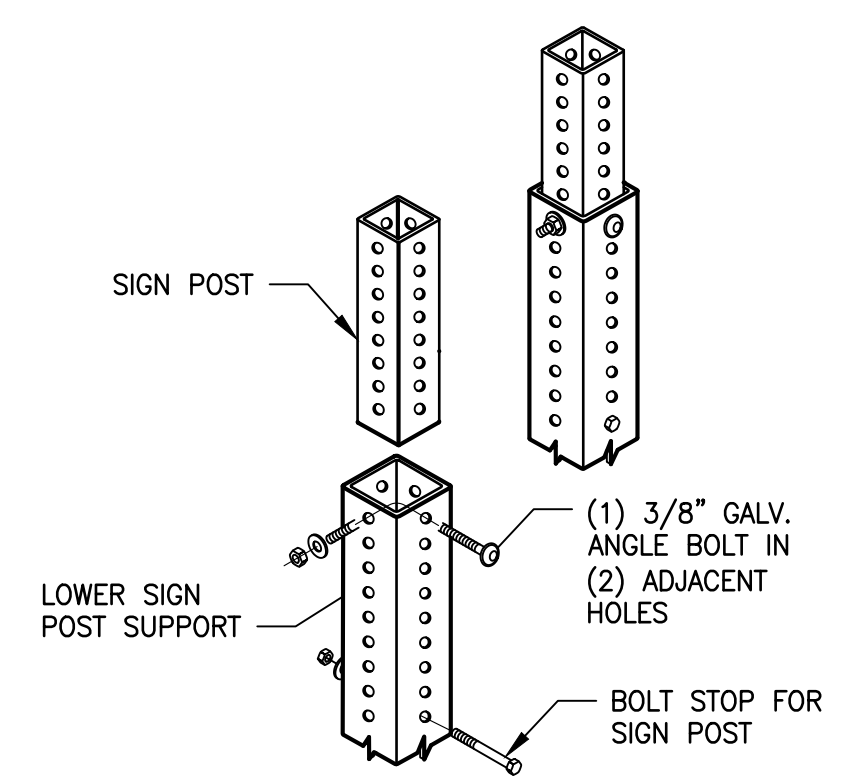
ELEVATION CONCRETE SIGN SUPPORT DETAIL 3
NOT TO SCALE



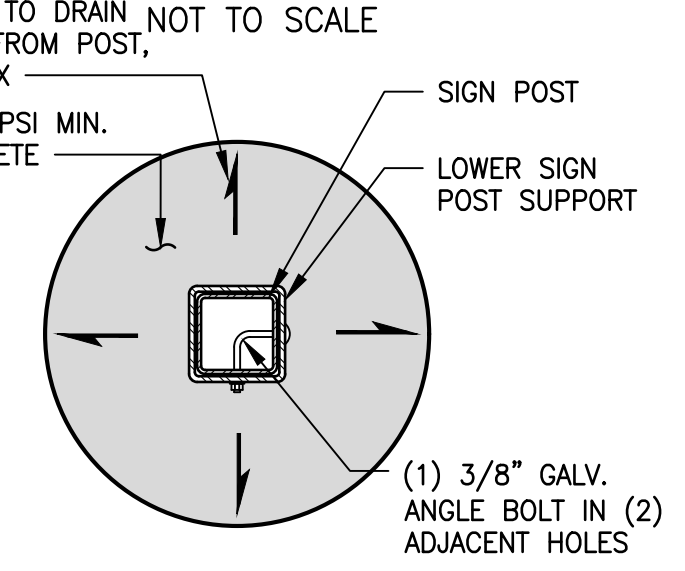
ELEVATION SIGN PANEL ATTACHMENT DETAIL 4
NOT TO SCALE



ELEVATION NATIVE BACKFILL SIGN SUPPORT DETAIL 5
NOT TO SCALE

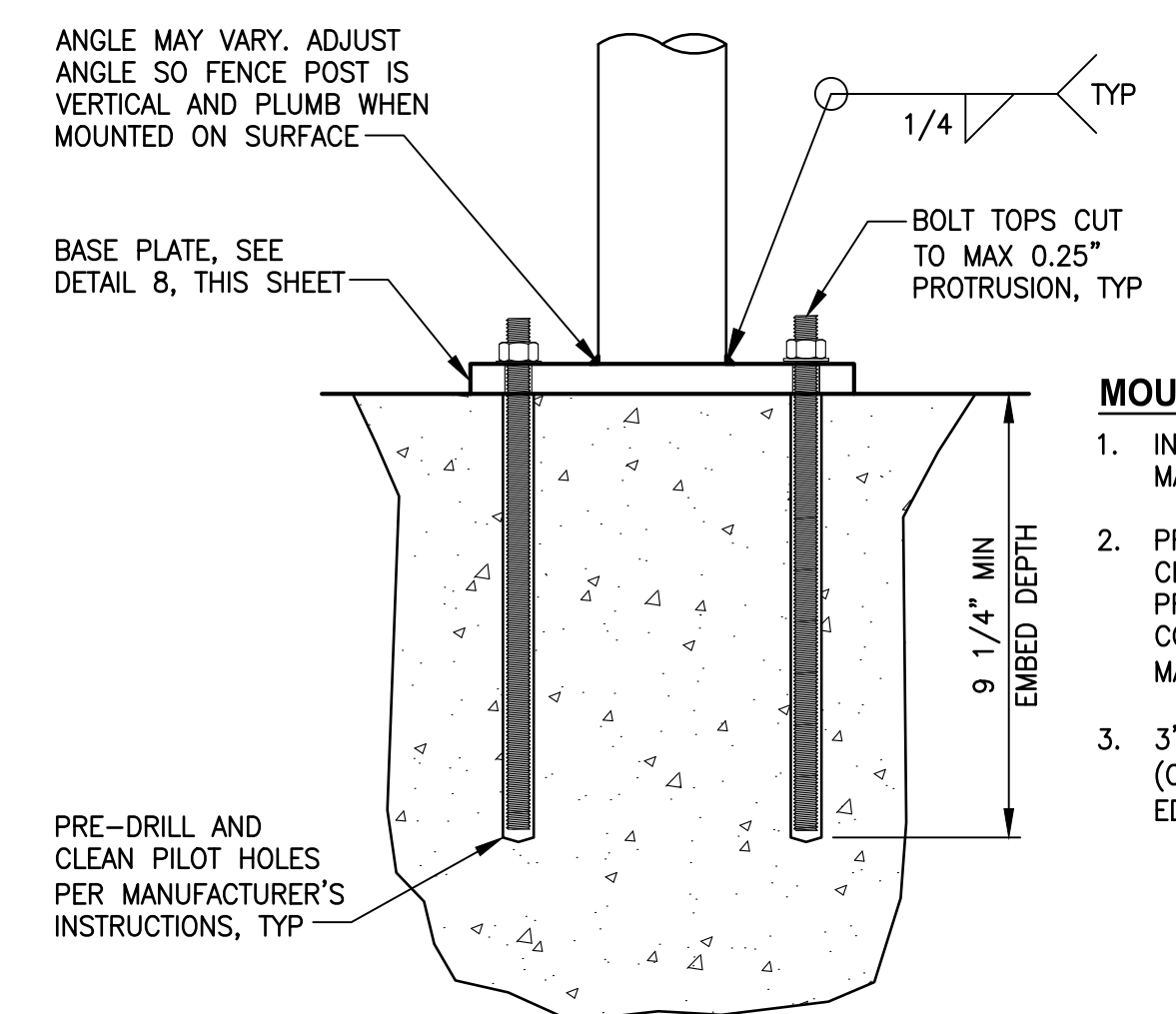


ISOMETRIC LOWER SIGN POST SUPPORT ASSEMBLY DETAIL 6
NOT TO SCALE



PLAN VIEW SIGN SUPPORT BASE DETAIL 7
NOT TO SCALE

- NOTES:**
- USE 7 FOOT MIN. MOUNTING HEIGHT FOR TRAFFIC SIGNS. USE 5 FOOT MIN. MOUNTING HEIGHT FOR TRAIL SIGNS.
 - PERFORATED SQUARE STEEL POST SHALL MEET REQUIREMENTS OF STANDARD SPECIFICATION 9-06.
 - USE ONLY BASE CONNECTION HARDWARE THAT MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS 9-06 AND 9-28.
 - USE OF CONCRETE FOOTING SIGN SUPPORT (DETAIL 3) OR NATIVE BACKFILL SIGN SUPPORT (DETAIL 5) PER KC PARKS ENGINEER'S DECISION.
 - LATERAL CLEARANCE DISTANCES FOR TRAIL AND TRAFFIC SIGNS SHALL BE PER KC PARKS STANDARDS, MUTCD OR WSDOT REQUIREMENTS, LOCAL JURISDICTION, OR AS APPROVED BY THE ENGINEER.
 - REFLECTOR ADDED TO SIGN POST PER KC PARKS ENGINEER'S DETERMINATION.
 - DIMENSIONS FOR THE PARTS USED TO ASSEMBLE THE BASE CONNECTIONS ARE INTENTIONALLY NOT SHOWN. BASE CONNECTIONS ARE PATENTED, MANUFACTURED PRODUCTS THAT ARE IN COMPLIANCE WITH NCHRP 350 CRASH TEST CRITERIA. BASE CONNECTION DETAILS ARE SHOWN ONLY TO ILLUSTRATE ASSEMBLY OF PARTS.



SURFACE MOUNTING DETAIL 9
NOT TO SCALE

- MOUNTING NOTES:**
- INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTION.
 - PRE-DRILL CONCRETE PILOT HOLES. CLEAR PILOT HOLE OF ALL DEBRIS PRIOR TO INSTALLATION OF CONCRETE ANCHORS PER MANUFACTURER'S INSTRUCTIONS.
 - 3" MINIMUM BOLT-EDGE DISTANCE (CENTER OF BOLT TO CONCRETE EDGE)



Conformed Set

REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			B. PURGANAN
			Y. HO
			C. BUITRAGO

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
 FILE NAME: BL1521075P19T03MD-01_GDC
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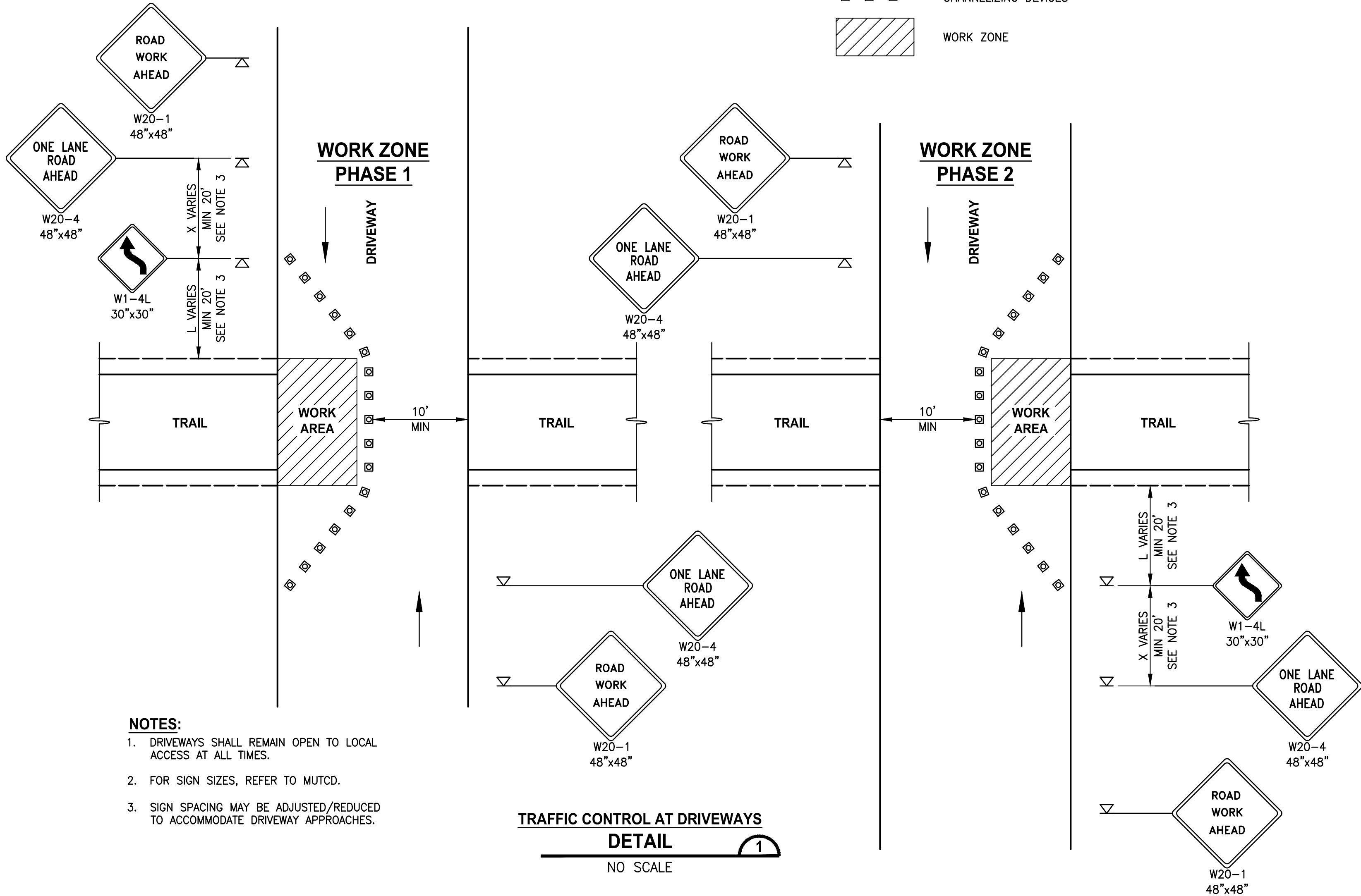
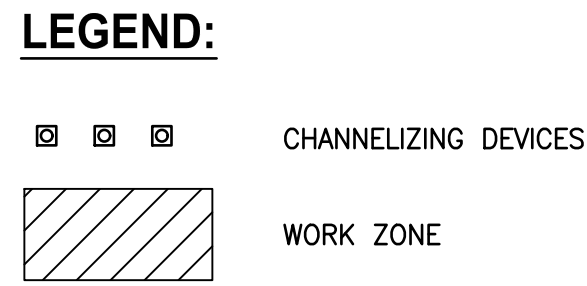
Parametrix
 719 2nd Avenue, Suite 200 • Seattle, WA 98104
 Ph: 206.394.3700

PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL GEORGE DAVIS CREEK CULVERT REPLACEMENTS
 SAMMAMISH, WA

MISCELLANEOUS DETAILS

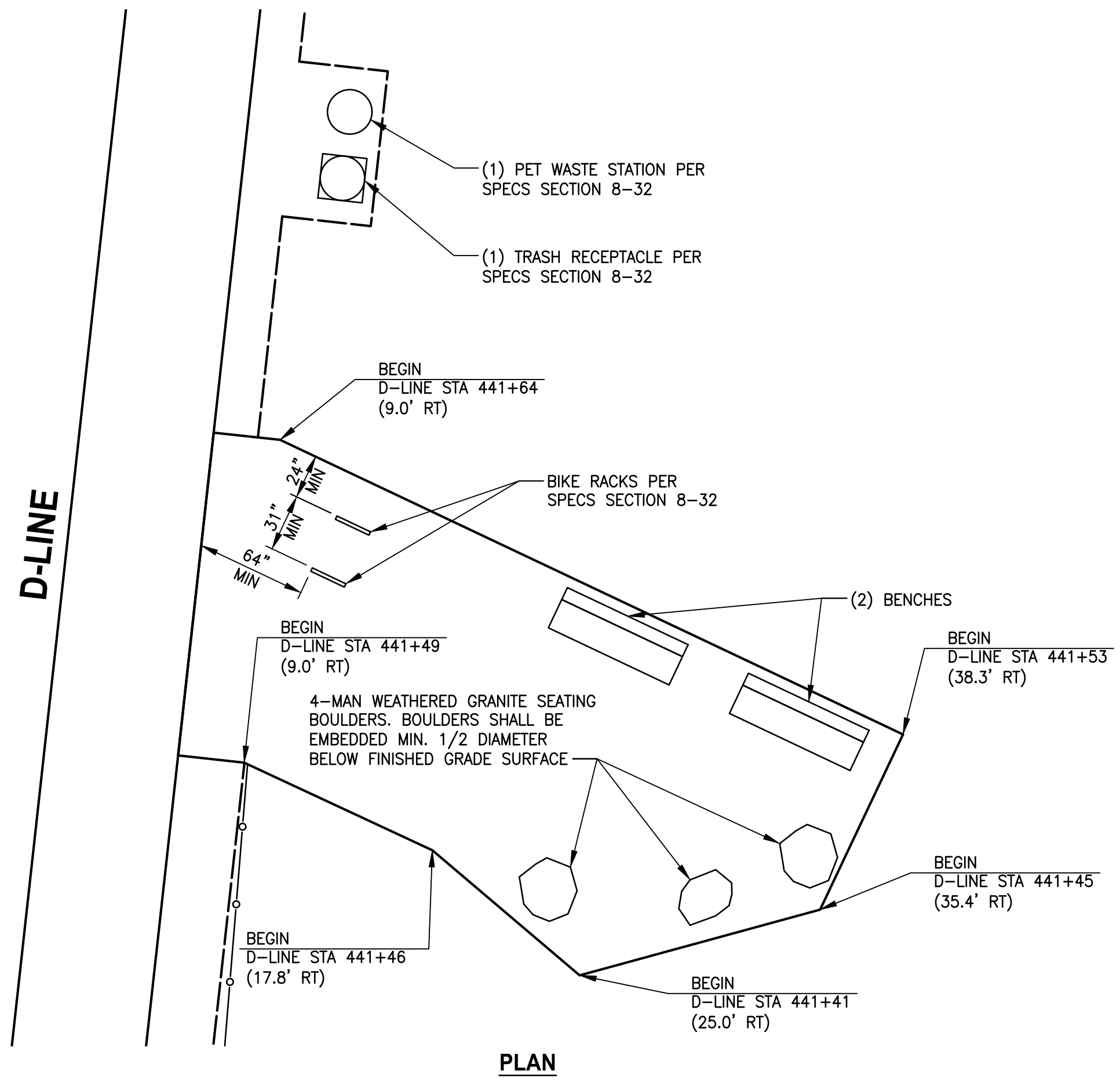
SHEET NO. 25 OF 35
MD1

PATH: U:\PSO\Projects\Clients\1521-KingCo\564-1521-075-ELST\99\Specs\CADD\Phase 19\T03_Chil\DWG-GDC_2025\DWG-
 LAYOUT: MD2

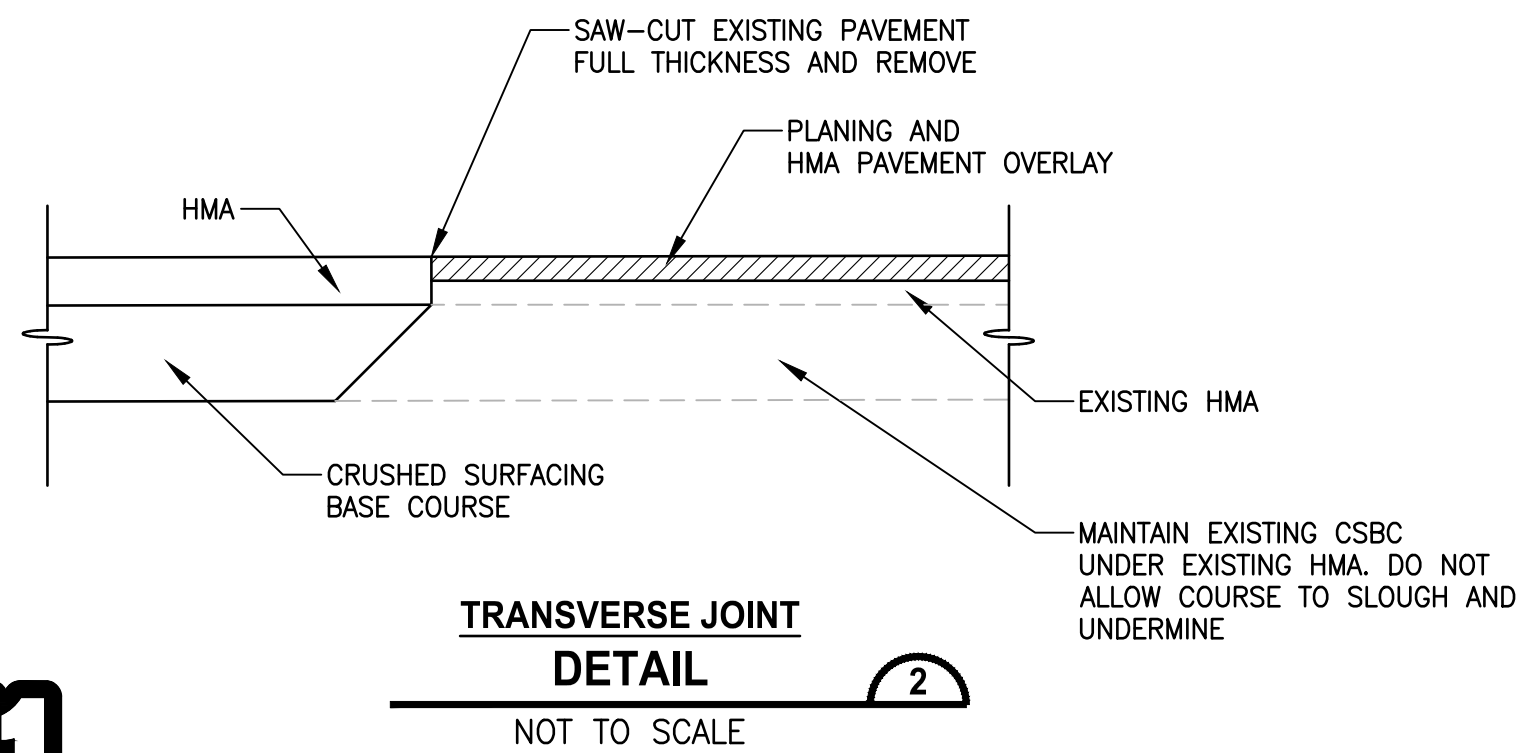


- NOTES:**
1. DRIVEWAYS SHALL REMAIN OPEN TO LOCAL ACCESS AT ALL TIMES.
 2. FOR SIGN SIZES, REFER TO MUTCD.
 3. SIGN SPACING MAY BE ADJUSTED/REDUCED TO ACCOMMODATE DRIVEWAY APPROACHES.

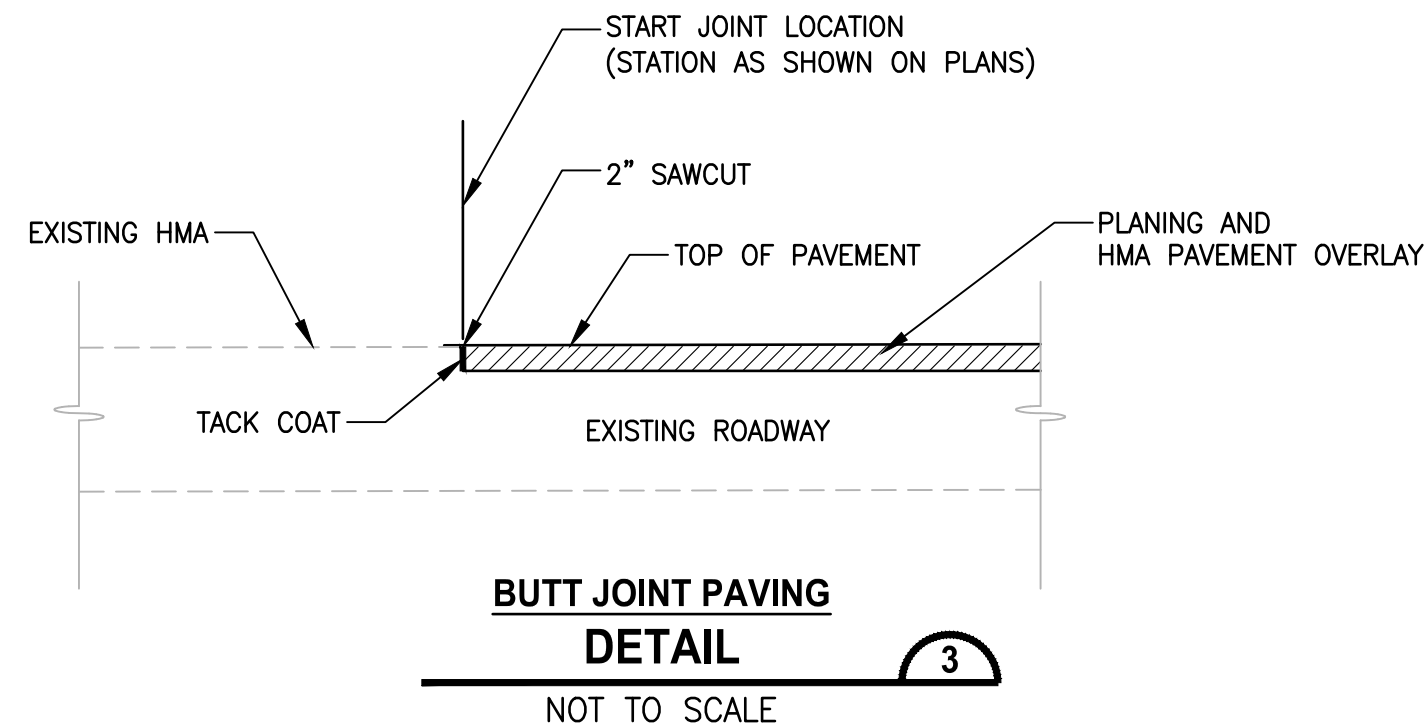
**TRAFFIC CONTROL AT DRIVEWAYS
DETAIL 1**
NO SCALE



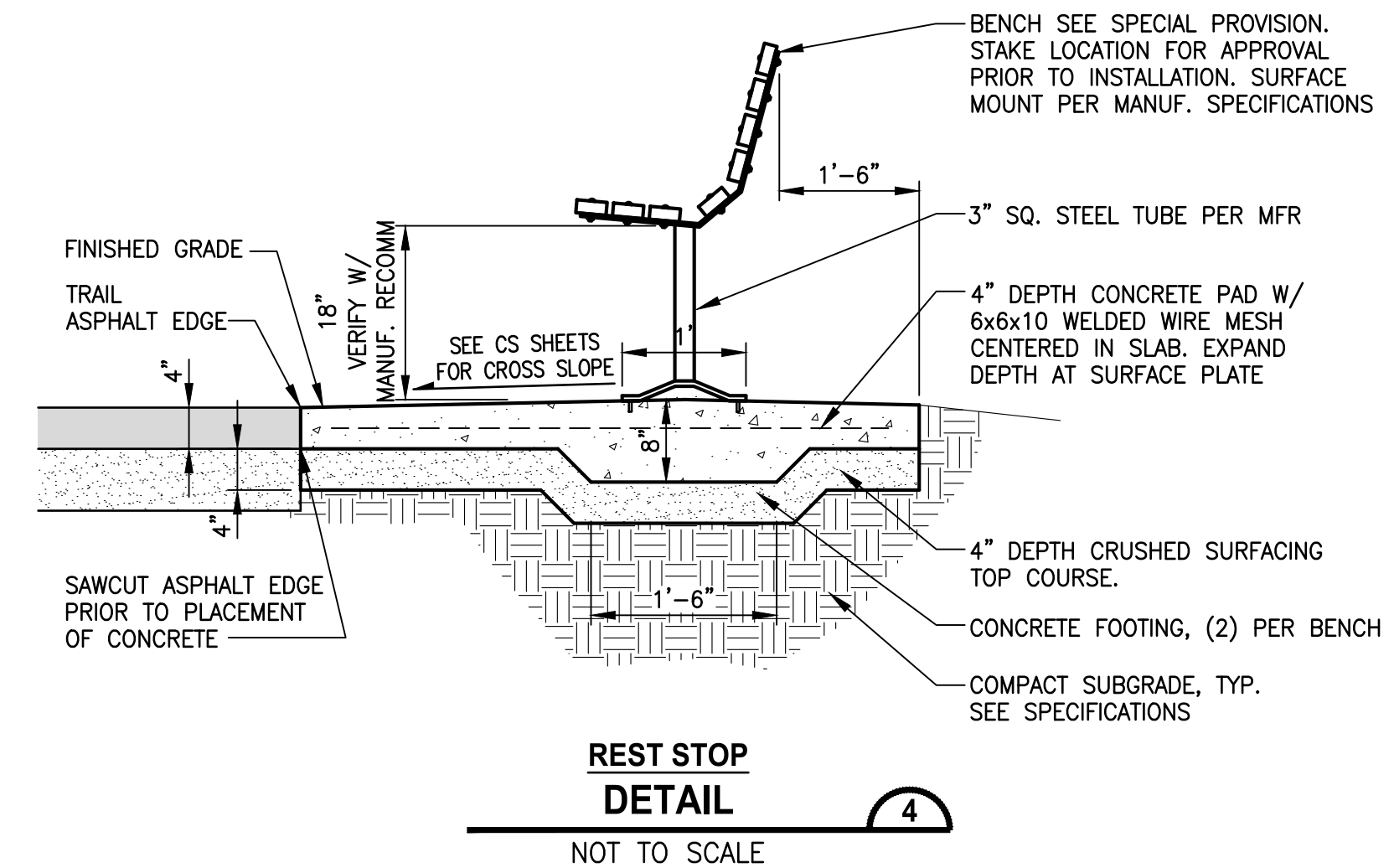
PLAN



**TRANSVERSE JOINT
DETAIL 2**
NOT TO SCALE



**BUTT JOINT PAVING
DETAIL 3**
NOT TO SCALE



**REST STOP
DETAIL 4**
NOT TO SCALE



Know what's below.
Call before you dig.

REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			B. PURGANAN
			Y. HO
			C. BUITRAGO

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME: BL1521075P19T03MD-01_GDC
 JOB No.: 564-1521-075 P28 T04
 DATE: FEBRUARY 2026



Parametrix
 719 2nd Avenue, Suite 200 • Seattle, WA 98104
 Ph: 206.394.3700

PROJECT NAME
**EAST LAKE SAMMAMISH
 MASTER PLAN TRAIL
 GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
 SAMMAMISH, WA

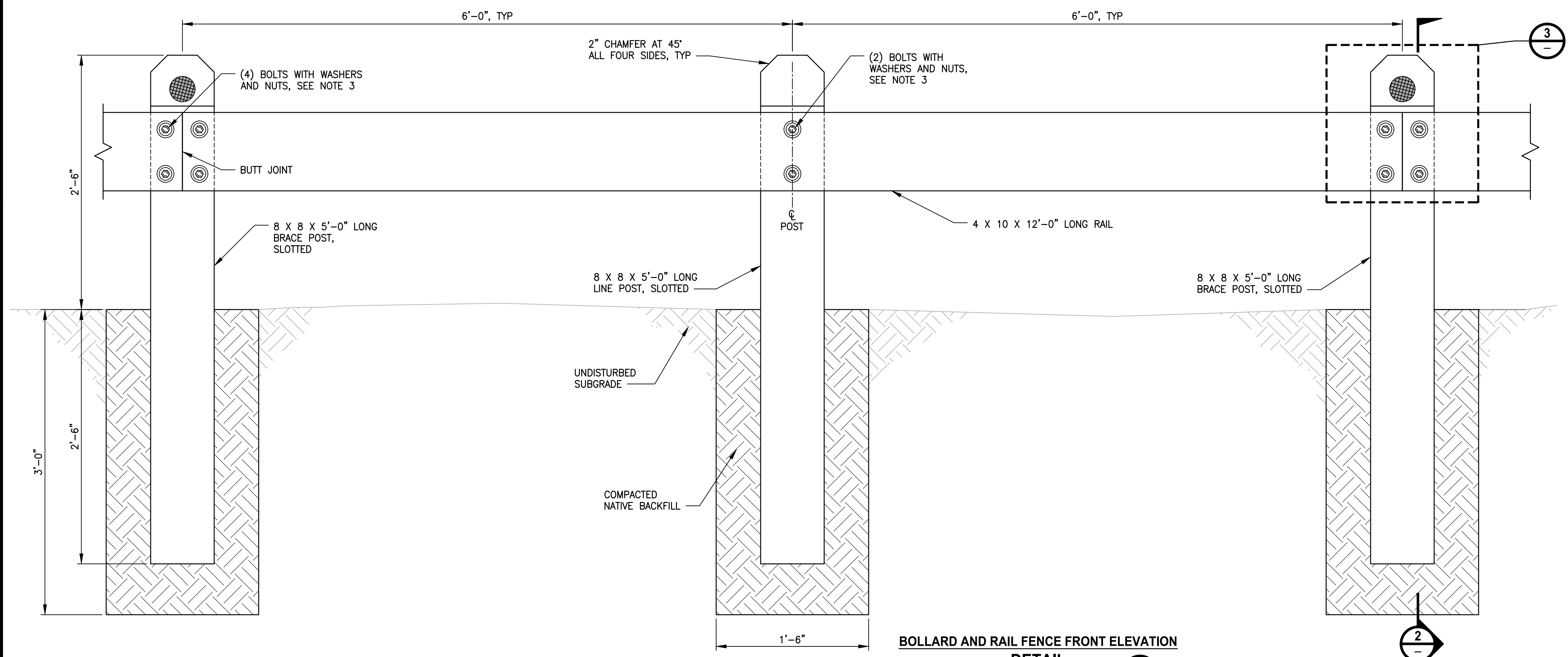
MISCELLANEOUS DETAILS

SHEET NO.
26 OF 35

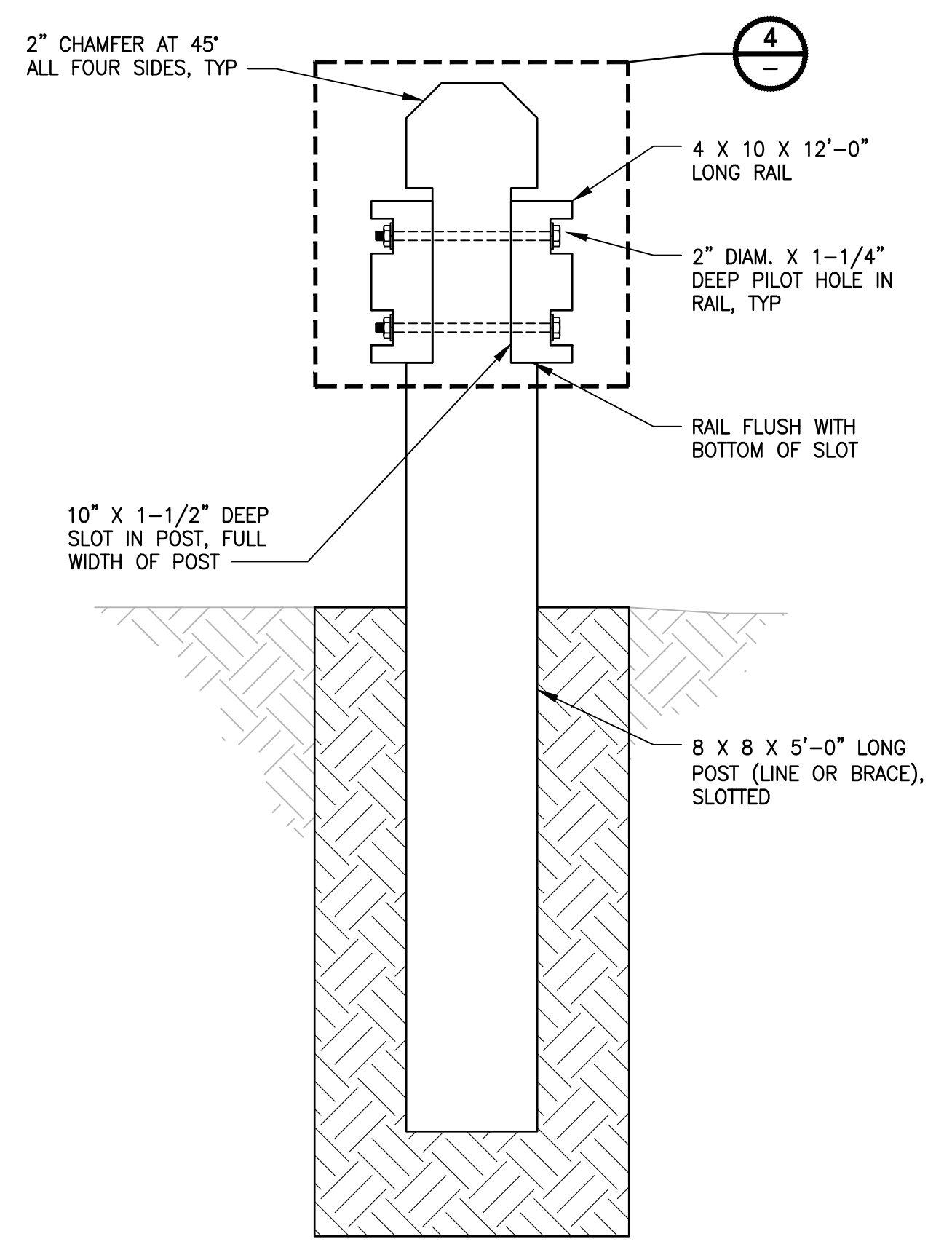
MD2

Conformed Set

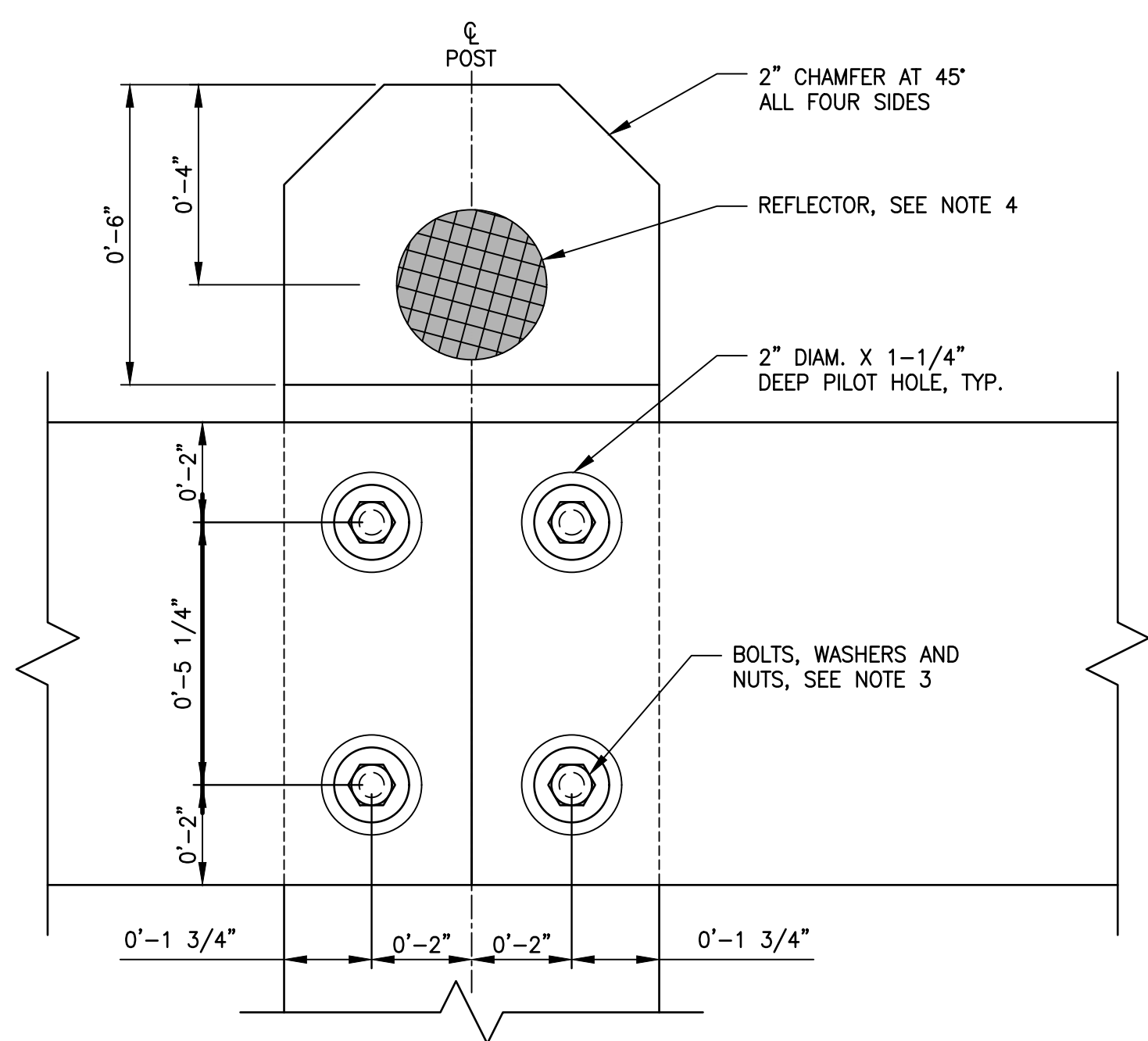
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 PLOTTED BY: purgaban DATE: Tuesday, February 10, 2026 7:04:55 AM



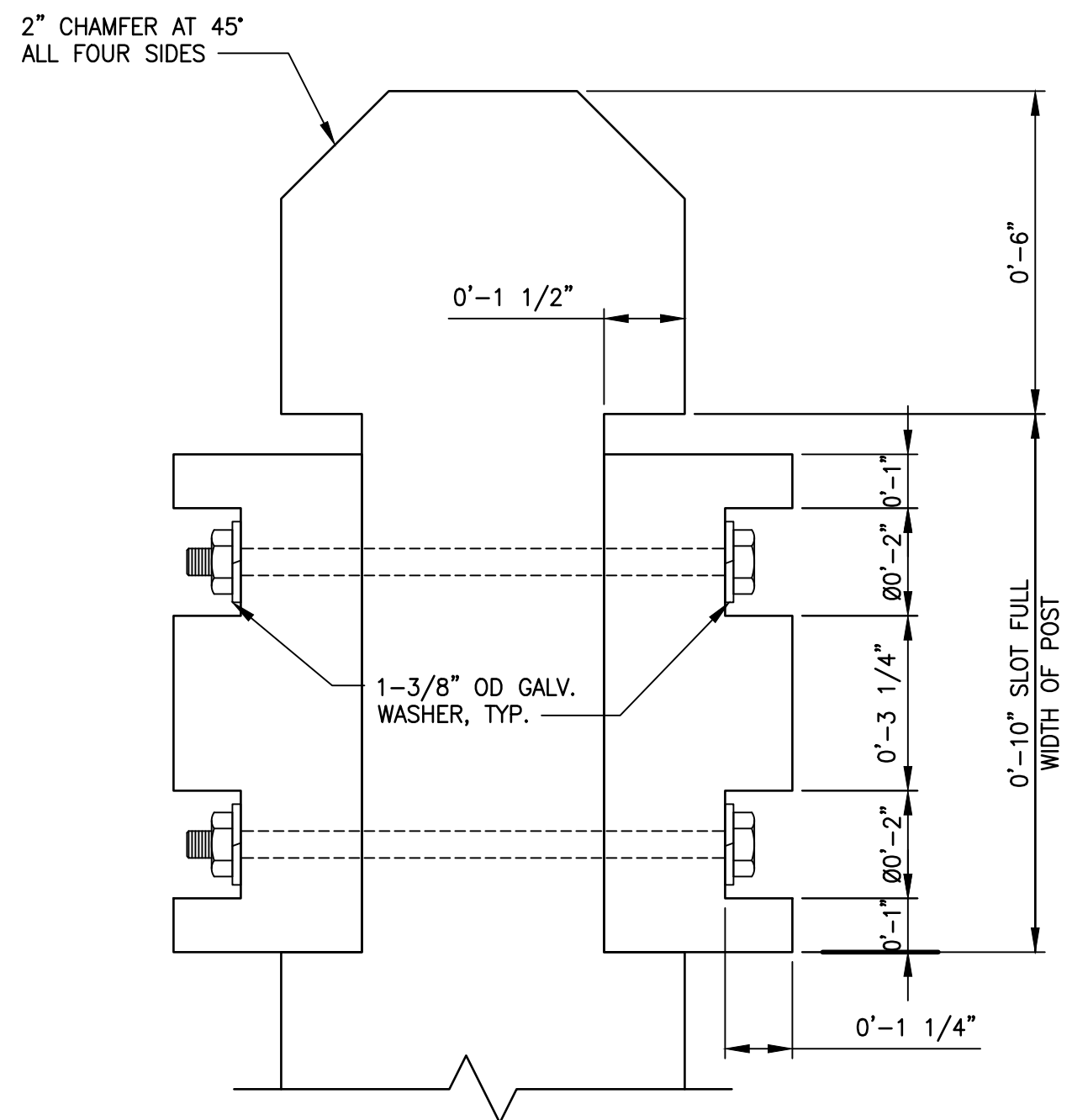
BOLLARD AND RAIL FENCE FRONT ELEVATION DETAIL
 NOT TO SCALE



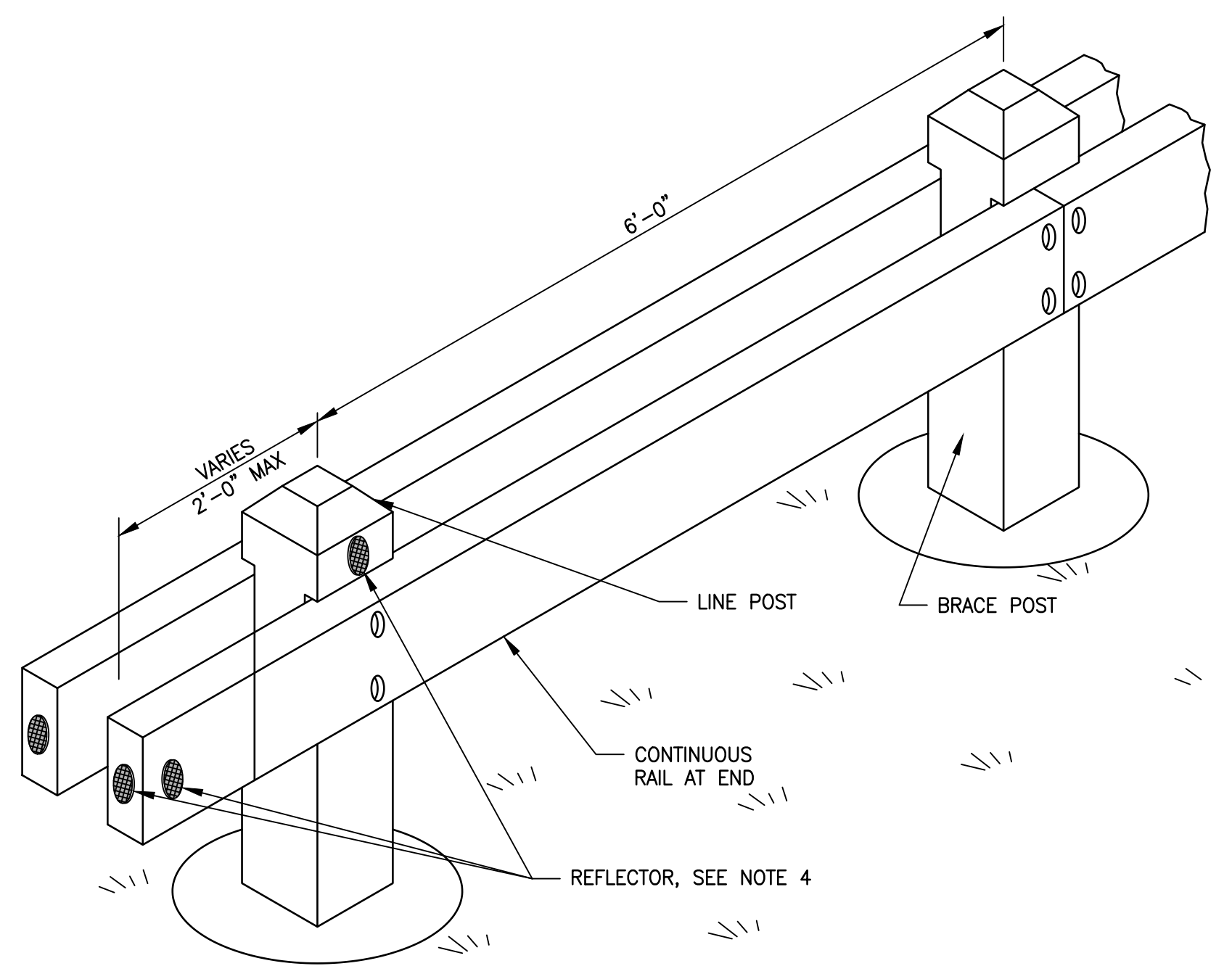
BOLLARD AND RAIL FENCE - SINGLE SIDE ELEVATION DETAIL
 NOT TO SCALE



FENCE ASSEMBLY DETAIL
 NOT TO SCALE



FENCE ASSEMBLY ELEVATION - DOUBLE ELEVATION DETAIL
 NOT TO SCALE



END RAIL ISOMETRIC - SINGLE ISOMETRIC DETAIL
 NOT TO SCALE

NOTES:

1. ALL BOARDS AND POSTS SHALL BE UNTREATED CEDAR LUMBER
2. SET POSTS PLUMB.
3. BOLTS SHALL BE 5/8" X 8" LONG STAINLESS STEEL HEX BOLT AND NUT WITH (2) 1-3/8" OUTSIDE DIAMETER STAINLESS STEEL WASHERS, EACH SIDE.
4. INSTALL 3" DIAMETER RED REFLECTIVE BUTTONS USING SCREWS AND BOLTS ON ALL POSTS AND END RAIL AS SHOWN IN PLANS.

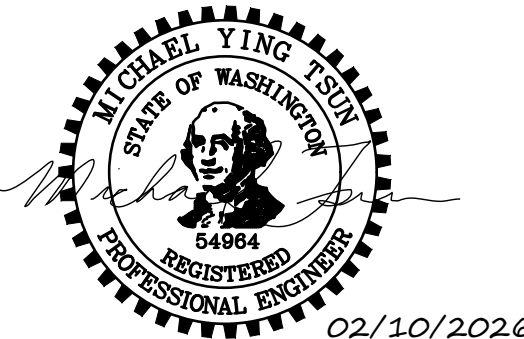


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REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			B. PURGANAN
			Y. HO
			C. BUITRAGO

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 FILE NAME: BL1521075P19T03MD-01_GDC
 JOB No.: 554-1521-075 P28 T04
 DATE: FEBRUARY 2026



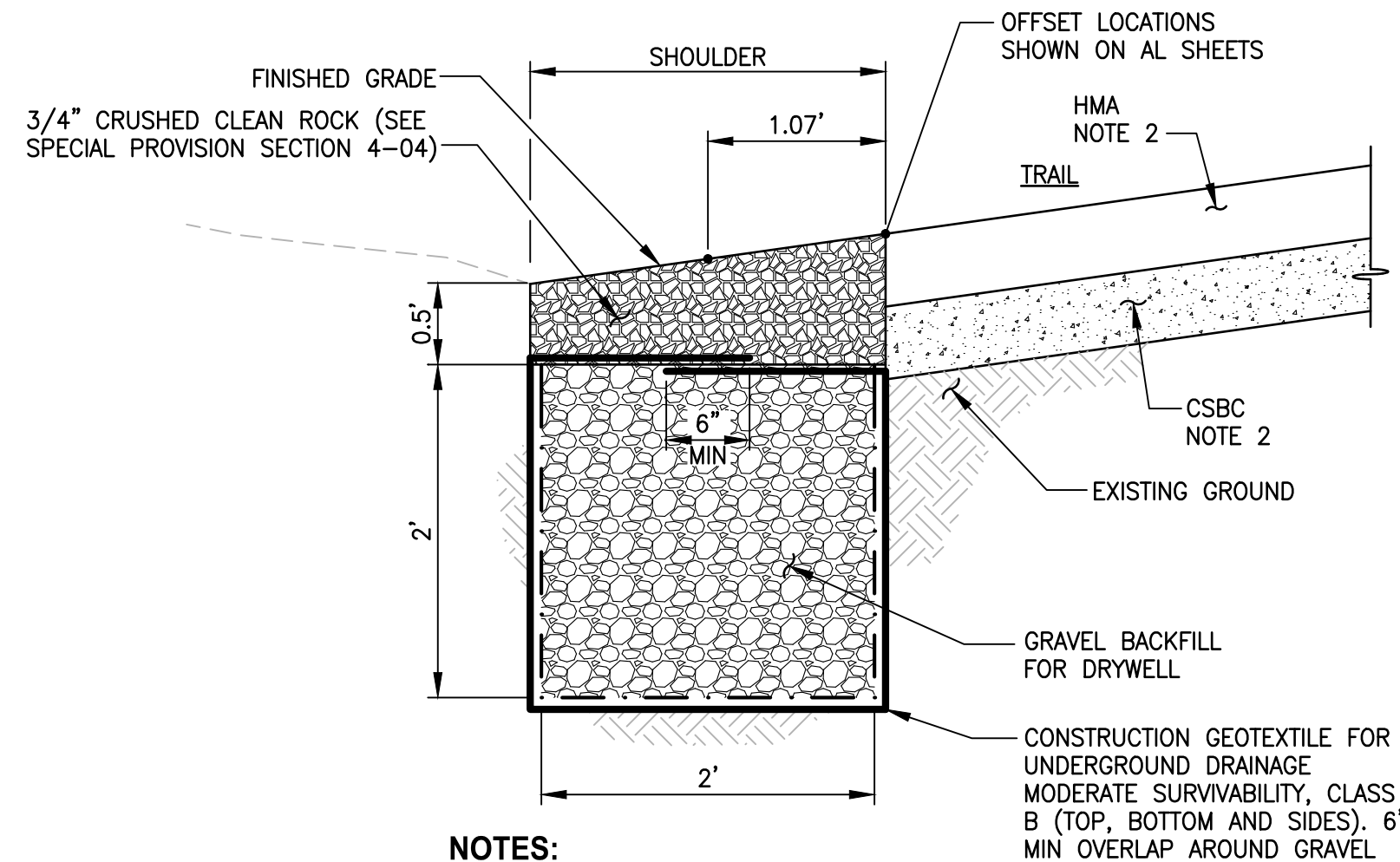
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PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL GEORGE DAVIS CREEK CULVERT REPLACEMENTS
 SAMMAMISH, WA

MISCELLANEOUS DETAILS

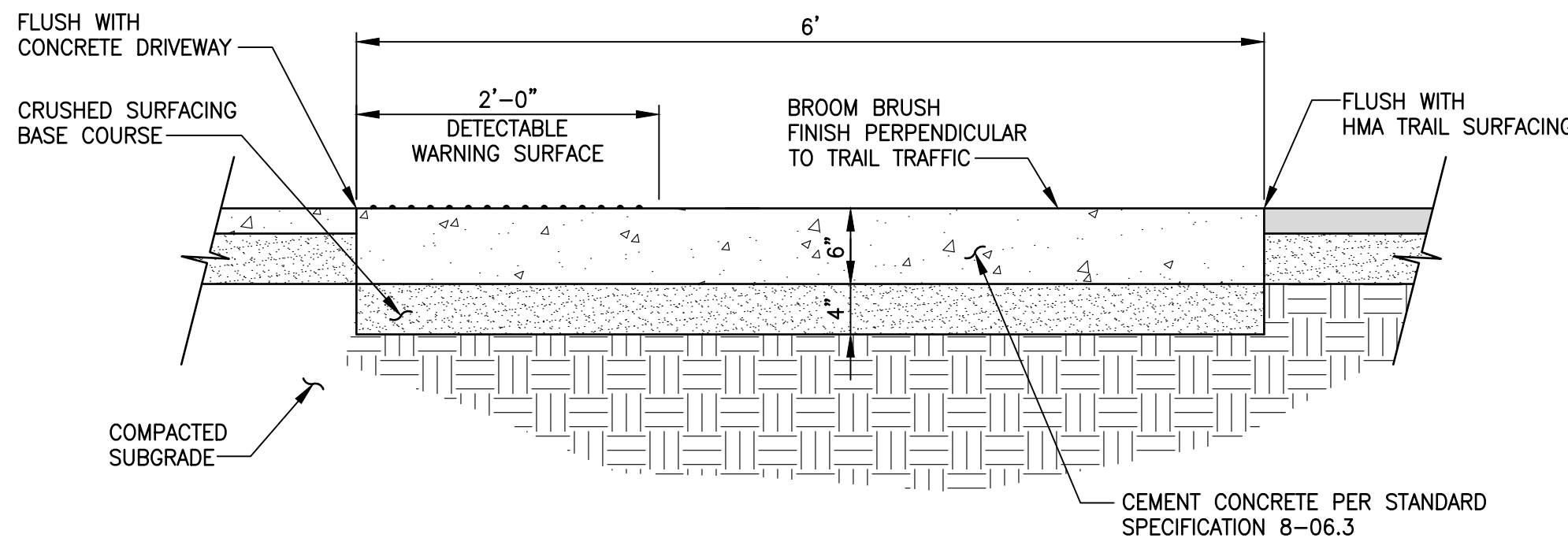
SHEET NO.
 27 OF 35
MD3

LAYOUT: MD4
 PATH: U:\PSO\Projects\Clients\1521-KingCo\564-1521-075-ELST\99Sees\CADD\Phase 19\T03_Civil\DWG-GDC_2025\DWG
 PLOTTED BY: purgaban DATE: Tuesday, February 10, 2026 7:05:00 AM

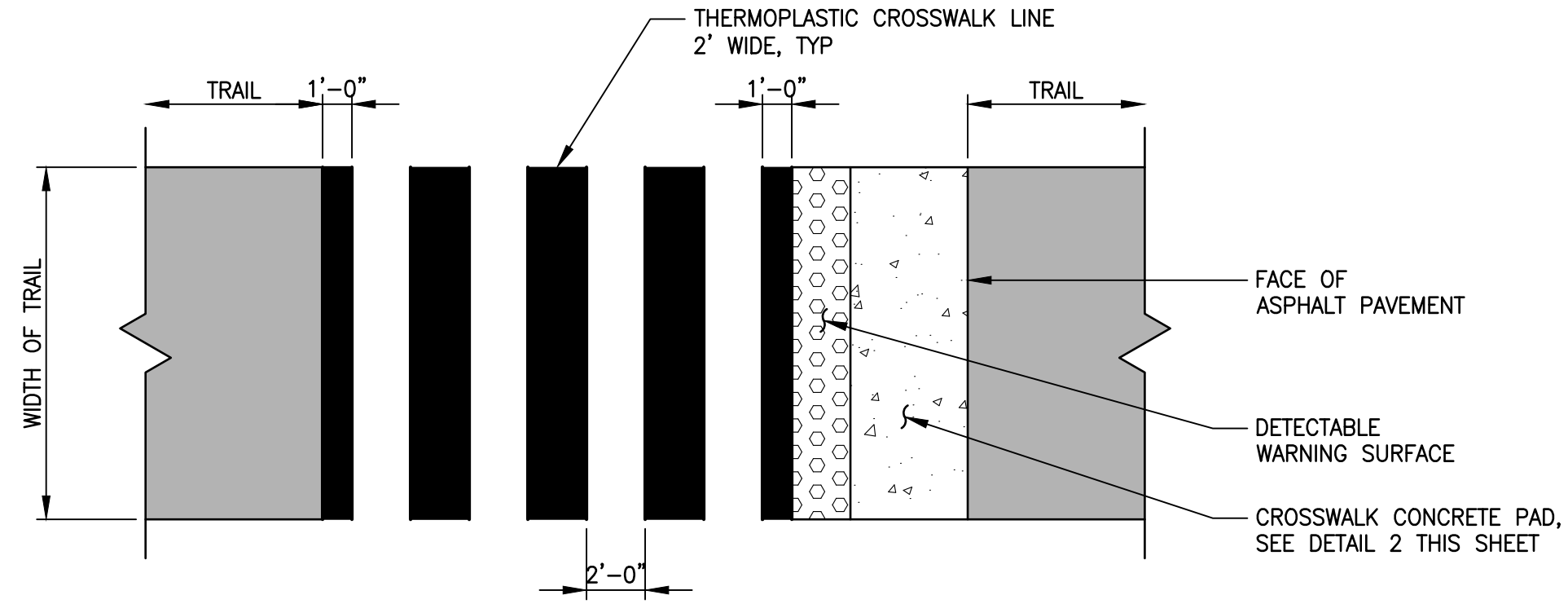


- NOTES:**
1. PROTECT INFILTRATION TRENCH AREAS. SEE SPECIAL PROVISIONS FOR DETAILS.
 2. SEE SHEET CS1 FOR TRAIL HMA AND CRUSHED ROCK BASE THICKNESS.

**INFILTRATION TRENCH
DETAIL**
NOT TO SCALE



**CROSSWALK CONCRETE PAD
DETAIL**
NOT TO SCALE



**CROSSWALK MARKING
DETAIL**
NOT TO SCALE



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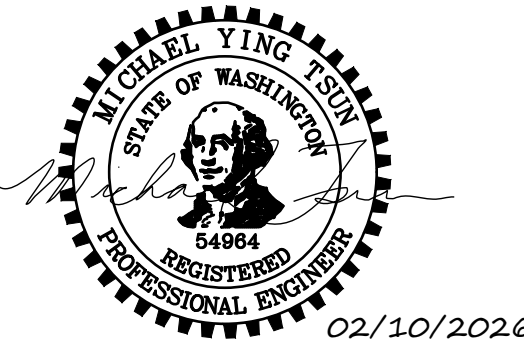
REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			DRAWN B. PURGANAN
			CHECKED Y. HO
			APPROVED C. BUITRAGO

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME
BL1521075P19T03MD-01_GDC

JOB No.
564-1521-075 P28 T04

DATE
FEBRUARY 2026



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PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
SAMMAMISH, WA

MISCELLANEOUS DETAILS

SHEET NO.
28 OF 35
MD4

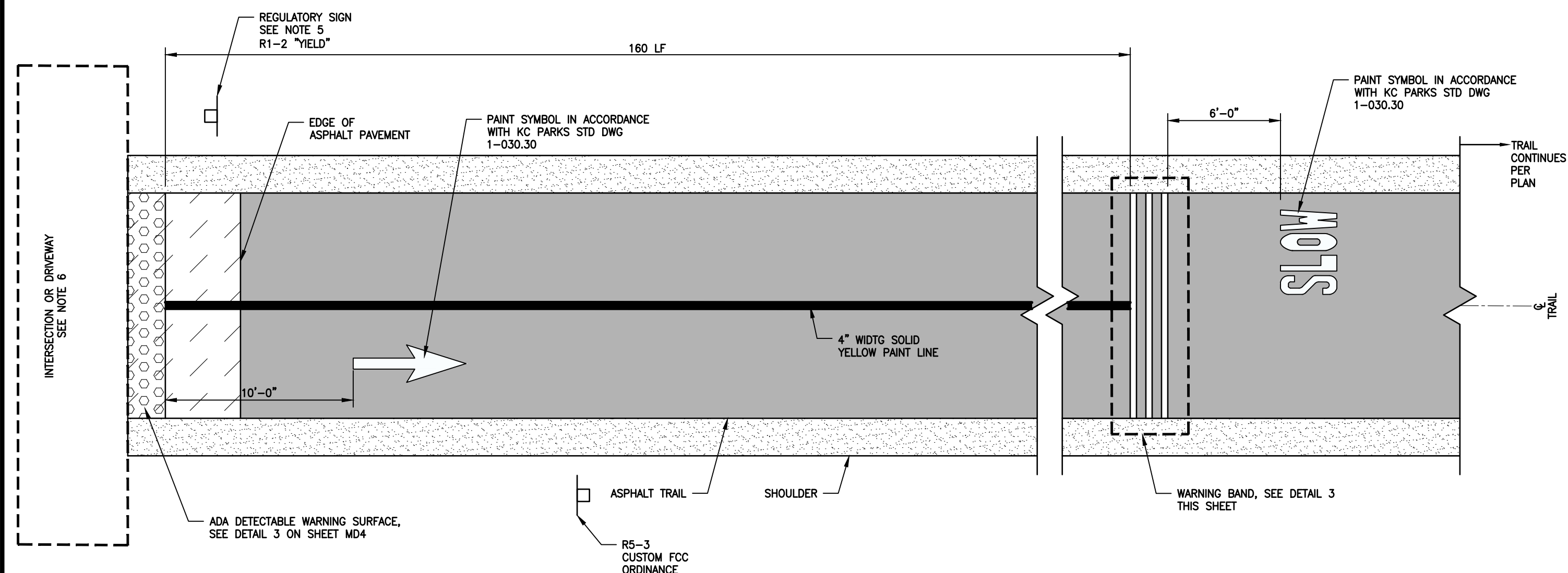
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NOTES:

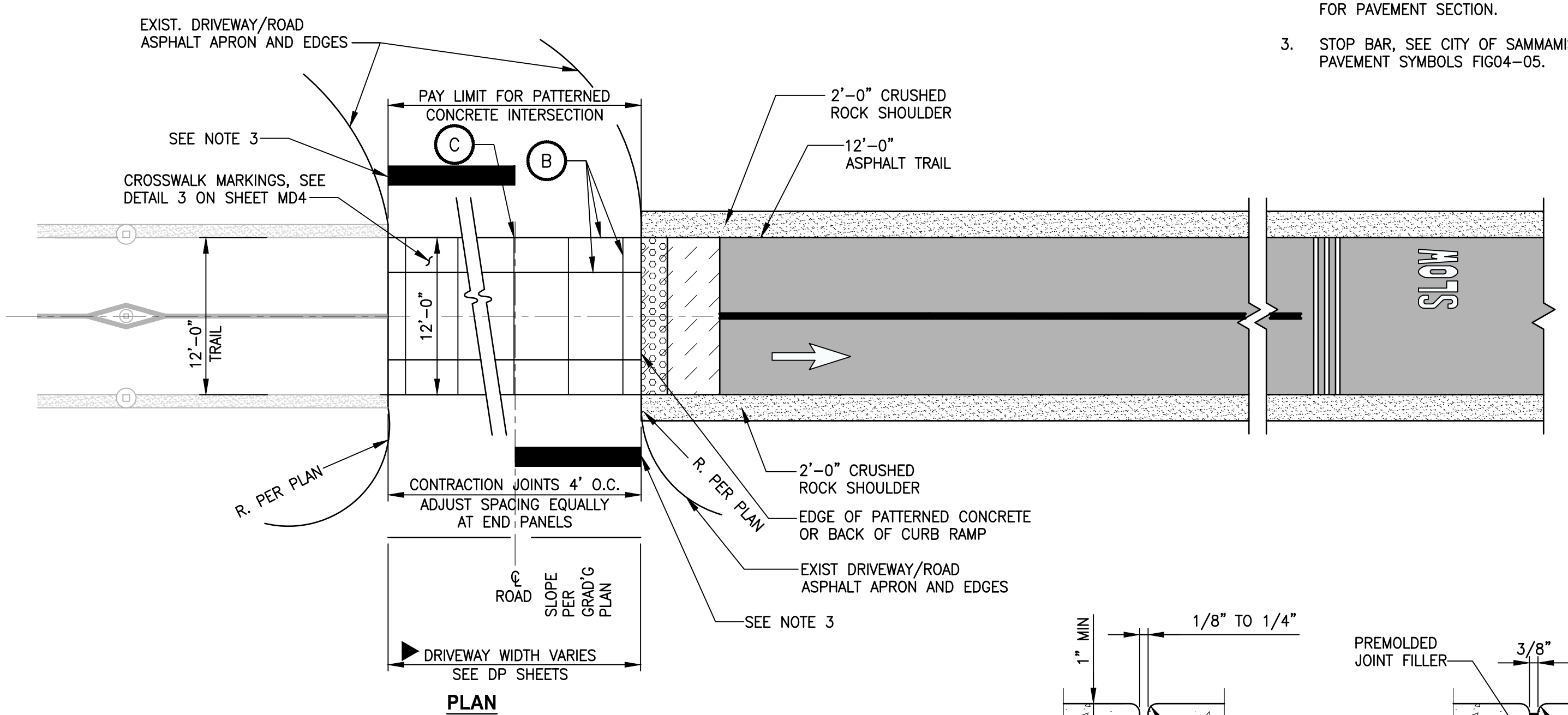
1. THE REQUIRED MINIMUM STOPPING SIGHT DISTANCE IS DETERMINED ACCORDING TO THE ASHTO GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES (CURRENT EDITION), SECTION 5.2.8. THE CENTERLINE STRIPE SHALL EXTEND THE FULL LENGTH OF THE CALCULATED STOPPING SIGHT DISTANCE.
2. THE ENGINEER OF RECORD SHALL EVALUATE THE NEED FOR ADDITIONAL ACCESS CONTROL MEASURES OUTSIDE THE TRAIL PAVEMENT AND SHOULDER WIDTH.
3. PAVEMENT MARKING SYMBOL MATERIAL SHALL BE WHITE PAINT CONFORMING TO WSDOT STANDARD SPECIFICATION 9-34.
4. SIGNS, PAVEMENT MARKINGS, AND OTHER TRAIL FEATURES NOT PERTAINING TO APPROACH DETAILS HAVE BEEN OMITTED FROM THIS PLAN FOR CLARITY. FOR TRAIL CROSSING DETAILS WHERE KC PARKS HAS JURISDICTION, REFER TO KC PARKS STD DWG 1-020.10.
5. IMPORTANT: APPLICATION OF REGULATORY AND WARNING SIGNS SHALL BE SITE SPECIFIC AND DESIGNED BY THE ENGINEER OF RECORD
6. THE DESIGNER OR ENGINEER OF RECORD SHALL DESIGN THE DETECTABLE WARNING SURFACE AND INTERSECTION LAYOUT TO COMPLY WITH LOCAL JURISDICTIONAL REQUIREMENTS.
7. ADA DETECTABLE WARNING SURFACE SHALL SPAN FULL WIDTH OF TRAIL AND BE PLACED PER RECOMMENDATION OF ENGINEER OF RECORD AND JURISDICTIONAL HAVING AUTHORITY
8. TEMPORARY TRAFFIC CONTROL DEVICES, PAVEMENT MARKINGS, OR OBJECT MARKERS SHALL BE SITE SPECIFIC AND DETERMINED BY THE ENGINEER OF RECORD.

NOTES:

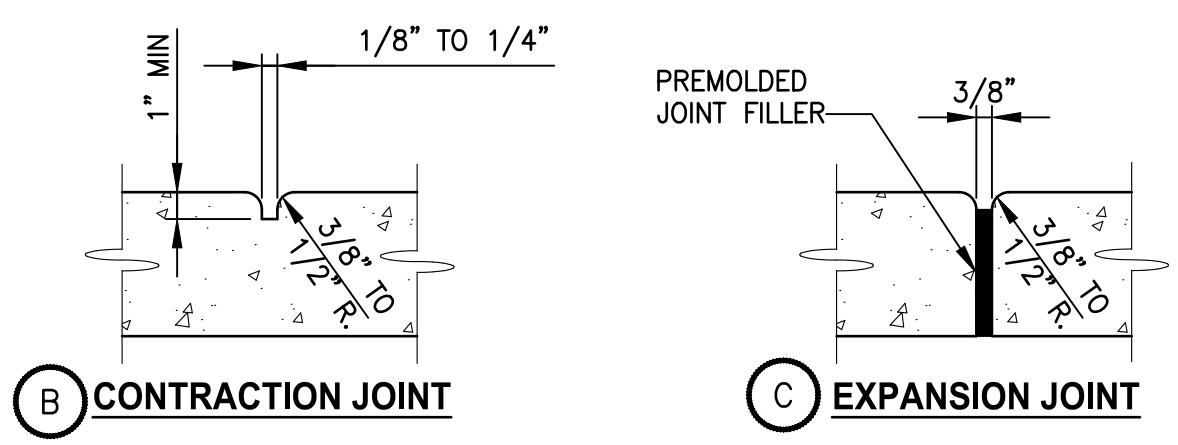
1. EXPANSION JOINT ALONG DRIVEWAY CENTERLINE. 15' MAXIMUM SPACING WHEN DRIVEWAY WIDTHS EXCEED 30'.
2. 4" WIDE SMOOTH TROWELED PERIMETER FOR EACH 4'x4' SQUARE PATTERN. SEE FOR PAVEMENT SECTION.
3. STOP BAR, SEE CITY OF SAMMAMISH PAVEMENT SYMBOLS FIG04-05.



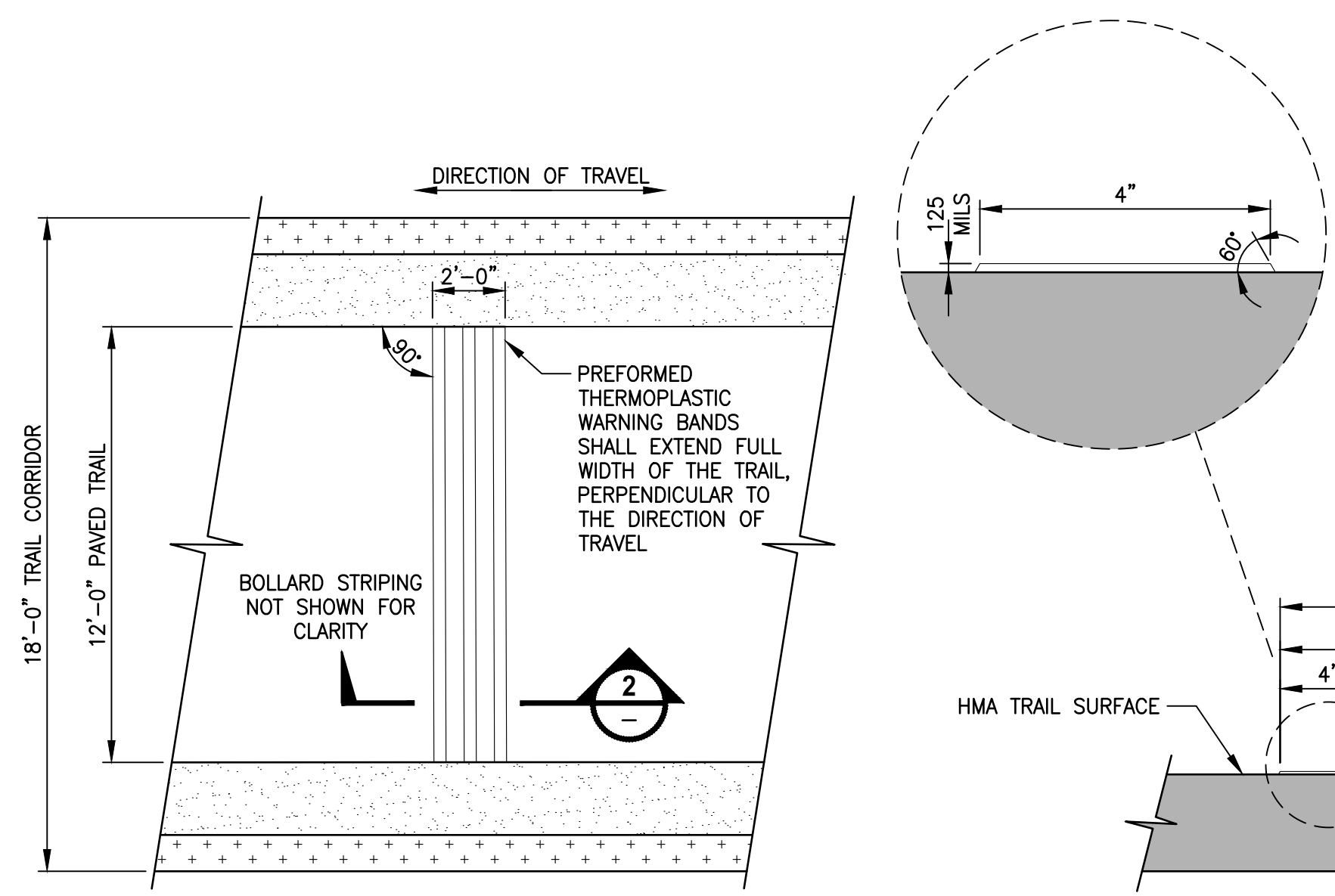
TRAIL CROSSING APPROACH LAYOUT AND STRIPING (PLAN) DETAIL 1
NOT TO SCALE



TYPICAL DRIVEWAY CROSSING (AT GRADE) DETAIL 2
NOT TO SCALE



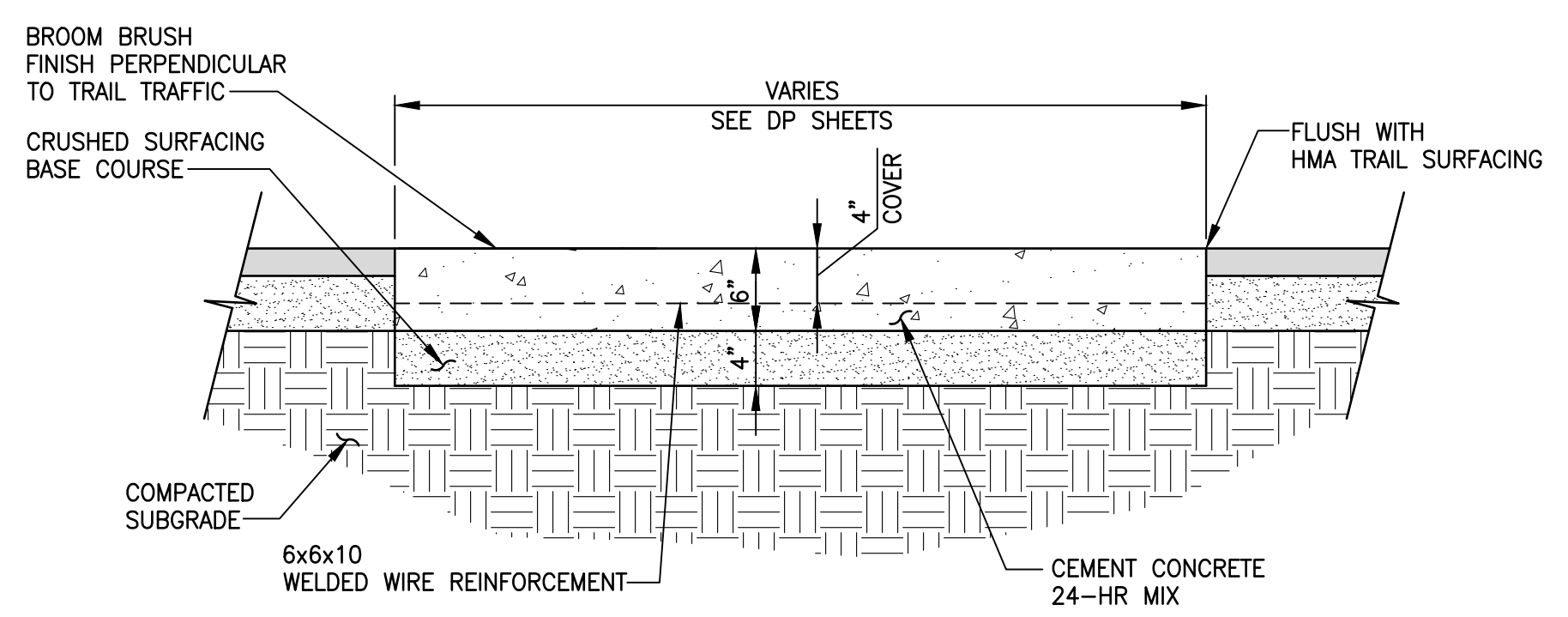
B CONTRACTION JOINT **C EXPANSION JOINT**



PREFORMED THERMOPLASTIC WARNING BAND DETAIL 3
NOT TO SCALE

NOTES:

1. WARNING BANDS SHALL EXTEND THE FULL WIDTH OF THE TRAIL AND INSTALLED PERPENDICULAR TO THE TRAIL DIRECTION OF TRAVEL.
2. TRAIL PAVEMENT MARKINGS AND CERTAIN DETAILS AND DIMENSIONS ARE OMITTED FROM THESE PLANS FOR CLARITY.
3. INSTALLATION OF PAVEMENT MARKINGS SHALL CONFORM TO WSDOT STANDARD SPECIFICATION 8-22 AND MANUFACTURER'S RECOMMENDATION.
4. ALL PAVEMENT MARKINGS MATERIAL SHALL MEET THE REQUIREMENTS OF WSDOT STANDARD SPECIFICATION 9-34.
5. INSTALL WARNING BANDS PER MANUFACTURER'S RECOMMENDATIONS.



PATTERNED CONCRETE DRIVEWAY SECTION DETAIL 4
NOT TO SCALE



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			M. TSUN
			B. PURGANAN
			Y. HO
			C. BUITRAGO

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 FILE NAME: BL1521075P19T03MD-01_GDC
 JOB No.: 54-1521-075 P28 T04
 DATE: FEBRUARY 2026



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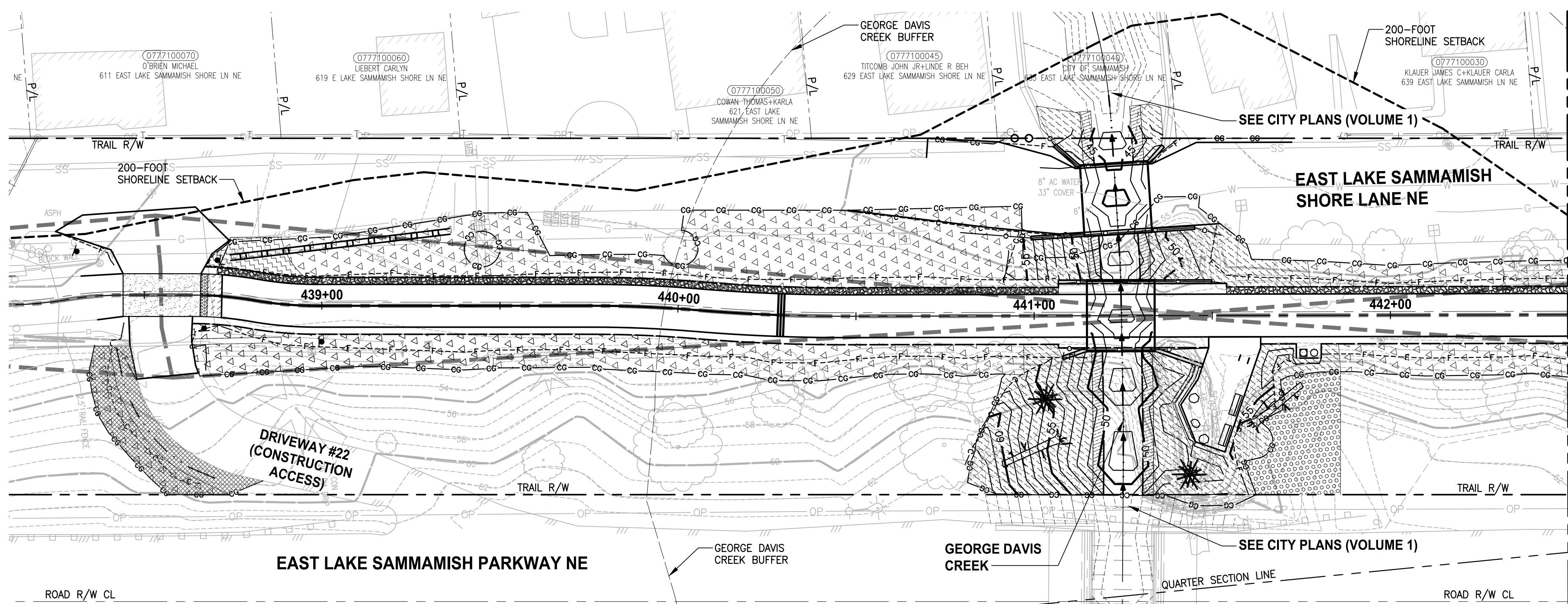
PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL GEORGE DAVIS CREEK CULVERT REPLACEMENTS
 SAMMAMISH, WA

MISCELLANEOUS DETAILS
 MD5

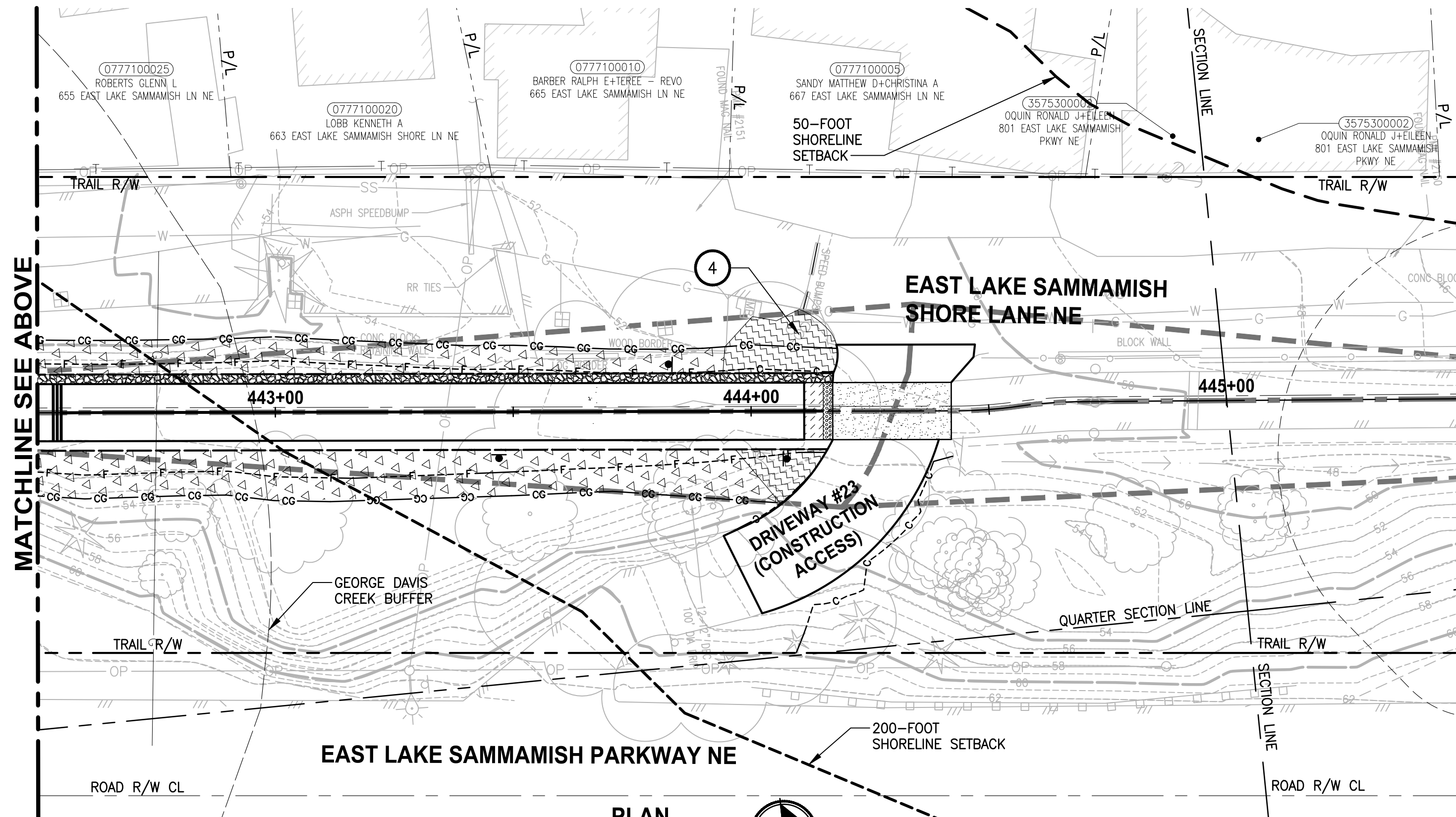
SHEET NO.
 29 OF 35

Conformed Set

LAYOUT: LA1
 PATH: U:\PSOX\Projects\Clients\1521-075-ELST\98West\CADD\Phase 19\T03_Civil\DWG-CDC_2025\DWG\



MATCHLINE SEE BELOW



MATCHLINE SEE ABOVE

LANDSCAPE CONSTRUCTION NOTES:

- 1 SOIL AMENDMENT. PLACE 3" SOIL AMENDMENT AND TILL INTO SOIL TO A DEPTH OF 10" THROUGHOUT ENTIRE PLANTING AREA. SEE DETAIL 6 ON SHEET LD1.
- 2 TOPSOIL TYPE A. PLACE 6" LAYER TOPSOIL OVER THE ENTIRE SURFACE OF PLANTING AREA.
- 3 WOOD CHIP MULCH. PLACE 3" LAYER WOOD CHIP MULCH OVER THE ENTIRE SURFACE OF THE AREA PLANTED.
- 4 EXISTING FIRE HYDRANT POINT OF CONNECTION FOR TEMPORARY IRRIGATION SYSTEM IF IRRIGATION IS AUTHORIZED BY ENGINEER AND INCLUDED IN PROJECT.
- 5 INSTALL BIODEGRADABLE EROSION CONTROL BLANKET

GENERAL NOTES:

1. SEE SHEET LD1 FOR PLANT MATERIAL LIST AND DETAILS FOR PLANTING, SOIL PREPARATION AND HABITAT FEATURES. SEE SHEETS LD2 AND LD3 FOR MITIGATION AREA REQUIREMENTS.
2. CONTRACTOR SHALL SETBACK PLANTINGS FROM OTHER OBJECTS AS PROVIDED IN THE PLANT MATERIAL SETBACK CHART ON SHEET LD1. ONLY LOW SHRUBS LESS THAN 3' TALL AT MATURITY CAN BE PLANTED WITHIN SIGHT DISTANCE TRIANGLE AREAS.
3. PLACE 4" TOPSOIL AND SEED ALL DISTURBED AREAS NOT OTHERWISE DESIGNATED FOR PLANTING AND OUTSIDE OF WETLANDS WITH WILDFLOWER SEED MIX. WETLAND AREAS WHICH ARE TEMPORARILY DISTURBED SHALL BE RESTORED WITH WET NATIVE SEED OR AS DIRECTED BY OWNERS REPRESENTATIVE.
4. IF DIRECTED BY THE ENGINEER INSTALL TEMPORARY IRRIGATION TO PROVIDE SUPPLEMENTAL WATERING TO ALL PLANTING AREAS. SEE SPECIFICATION SPECIAL PROVISIONS FOR TEMPORARY IRRIGATION INSTALLATION AND OPERATION REQUIREMENTS.

LEGEND:

- TRILSIDE SHRUB PLANTING AREAS
- INTERSECTION PLANTING AREAS
- RIPARIAN PLANTING AREAS
- RIPARIAN BUFFER ENHANCEMENT PLANTING AREAS
- STREAMSIDE PLANTINGS
- BIODEGRADABLE EROSION CONTROL BLANKET
- HABITAT BRUSH PILE
- HABITAT LOG
- 14.5' X 295' SIGHT DISTANCE TRIANGLE FOR STOP CONTROLLED INTERSECTION ON DRIVEWAYS PER COS STD FIG 02-19A. PLANT ONLY LOW SHRUBS WITHIN SIGHT DISTANCE TRIANGLE AREAS.

PLANTING NOTES:

1. CONTRACTOR SHALL ARRANGE TO MEET ON SITE WITH PROJECT REPRESENTATIVE TO DISCUSS LIMITS OF WORK AND METHODS. CONSTRUCTION ACTIVITIES SHALL NOT COMMENCE UNTIL ACCESS, LIMITS OF WORK, AND METHODS ARE APPROVED.
2. MITIGATION WORK ELEMENTS INCLUDING CLEARING & GRUBBING, HERBICIDE TREATMENT, SOIL AMENDMENT, WOOD CHIP MULCH, HABITAT FEATURES AND PLANTING LOCATIONS SHALL BE LOCATED IN AREAS CLEARED OF UNWANTED VEGETATION AND OPEN AREAS WITHOUT NATIVE VEGETATIVE COVER WITHIN THE MITIGATION AREA.
3. MITIGATION AREA BOUNDARY LIMITS SHALL BE STAKED FOR APPROVAL PROJECT REPRESENTATIVE. ELECTRONIC FILES FOR LIMITS WILL BE PROVIDED UPON AWARD OF CONTRACT.
4. PLANTING PLANS REPRESENT A CONCEPTUAL PLANT LAYOUT, FINAL PLANT LOCATIONS SHALL BE APPROVED BY PROJECT REPRESENTATIVE PRIOR TO PLANTING.
5. USE ONLY HAND TOOLS TO CLEAR AND CULTIVATE SOIL UNDER THE CANOPY (WITHIN AND 5' OUTSIDE THE DRIPLINE) OF EXISTING TREES.
6. ALL PLANTS SHALL BE NURSERY GROWN A MINIMUM OF ONE YEAR. PLANT MATERIAL IS TO BE SUPPLIED BY COMMERCIAL NURSERIES THAT SPECIALIZE IN PLANTS NATIVE TO THE PACIFIC NORTHWEST. PLANT SUBSTITUTIONS ARE SUBJECT TO APPROVAL BY PROJECT REPRESENTATIVE.
7. PLANTING SHALL TAKE PLACE DURING THE DORMANT SEASON (OCTOBER 1ST TO MARCH 1ST). PLANTING MAY BE ALLOWED AT OTHER TIMES AFTER REVIEW AND WRITTEN APPROVAL BY PROJECT REPRESENTATIVE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS AND EXCESS SOIL OCCASIONED BY THIS PROJECT.
9. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION.
10. CONTRACTOR SHALL SETBACK PLANTINGS FROM OTHER OBJECTS AS PROVIDED IN THE PLANT MATERIAL SETBACK CHART THIS SHEET. ONLY SMALL SHRUBS LESS THAN 3' TALL AT MATURITY SHALL BE PLANTED WITHIN 8' OF TRAIL EDGE AND WITHIN SIGHT DISTANCE TRIANGLE AREAS.
11. ALL DIMENSIONS FOR LISTED HEIGHT, LENGTH AND CONTAINER SIZE ARE MINIMUM REQUIREMENTS.
12. EXISTING AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND NOT SHOWN TO BE RE-VEGETATED ON THESE PLANS SHALL BE RESTORED AND SEEDDED.
13. DISCREPANCIES BETWEEN THE PLANS AND SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT REPRESENTATIVE PRIOR TO PROCEEDING WITH EFFECTED WORK.
14. SEE TESC SHEETS FOR TEMPORARY EROSION CONTROL MEASURES.
15. AFTER COMPLETION OF INITIAL PLANTING SPRAY MITIGATION AREA TREES AND SHRUBS ONLY WITH AN HERBIVORE REPELLENT TREATMENT.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING PLANTS FOR THE FIRST YEAR AFTER ACCEPTANCE OF COMPLETION OF PLANTING FOR THE PROJECT. COUNTY WILL MAKE PROVISIONS FOR WATERING AS NEEDED FOR THE REMAINDER OF THE ESTABLISHMENT PERIOD AFTER THE FIRST YEAR.

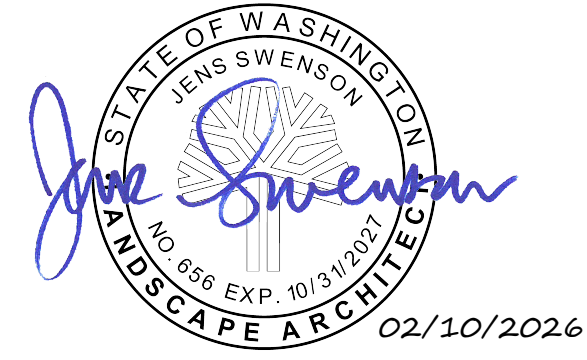


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REVISIONS	DATE	BY	DESIGNED
			J. CERALDE
			B. PURGANAN
			J. SWENSON
			C. BUITRAGO

ONE INCH AT FULL SCALE.
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FILE NAME: BL1521075P19T03LA-01_GDD
 JOB No.: 54-1521-075 P28 T04
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 Ph: 206.394.3700

PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL GEORGE DAVIS CREEK CULVERT REPLACEMENTS
 SAMMAMISH, WA

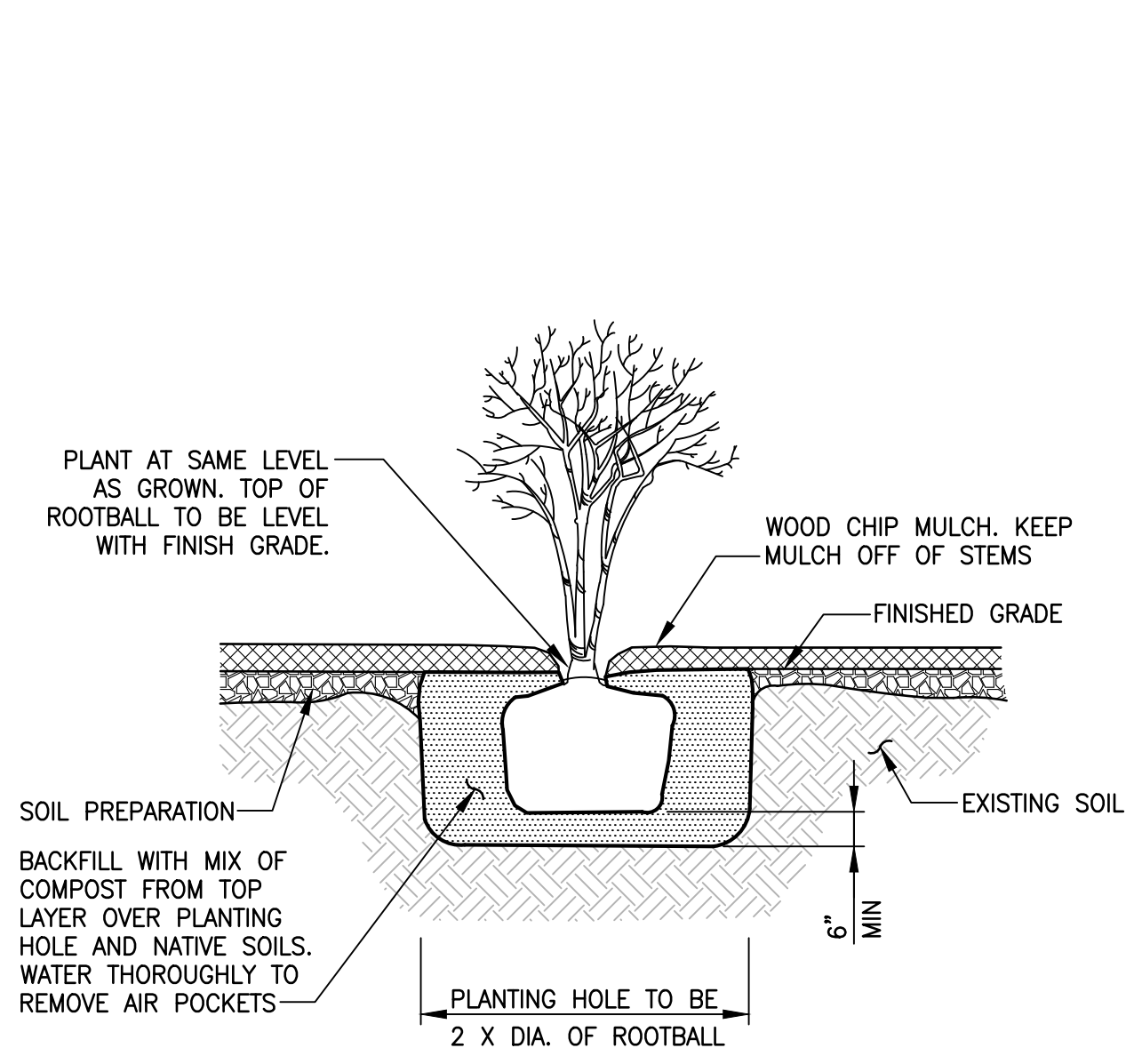
LANDSCAPE PLAN

SHEET NO.
30 OF 35

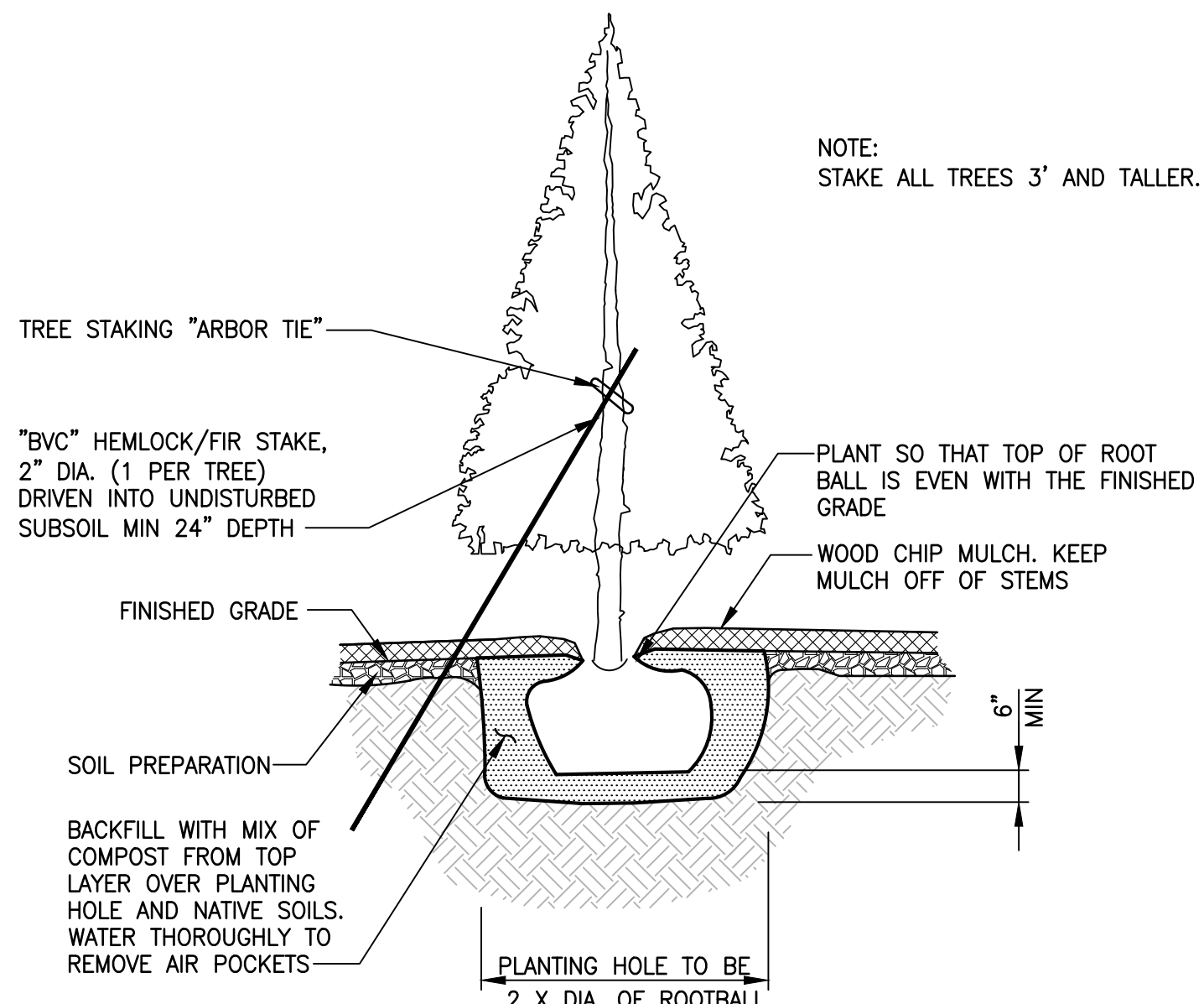
LA1

Conformed Set

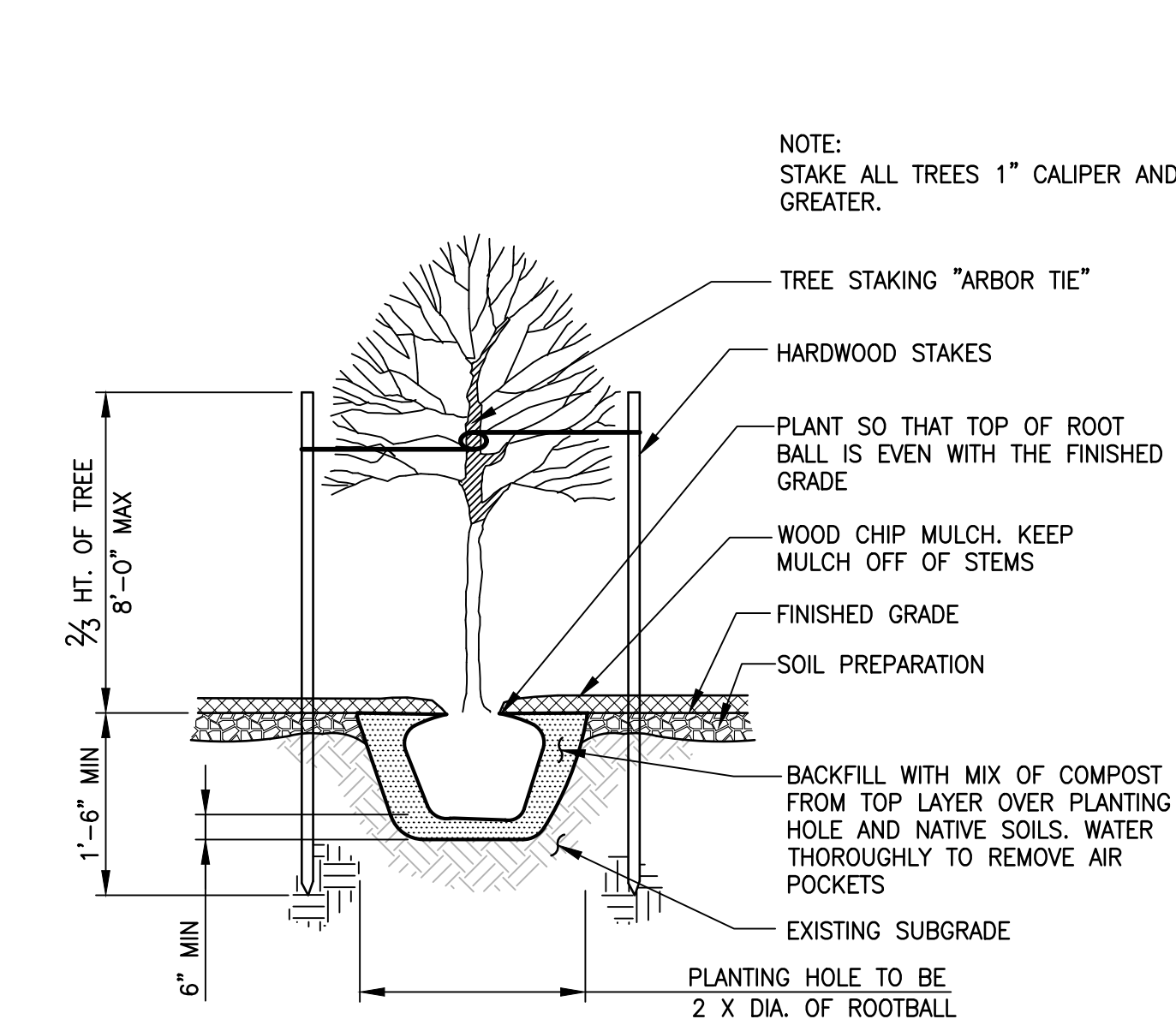
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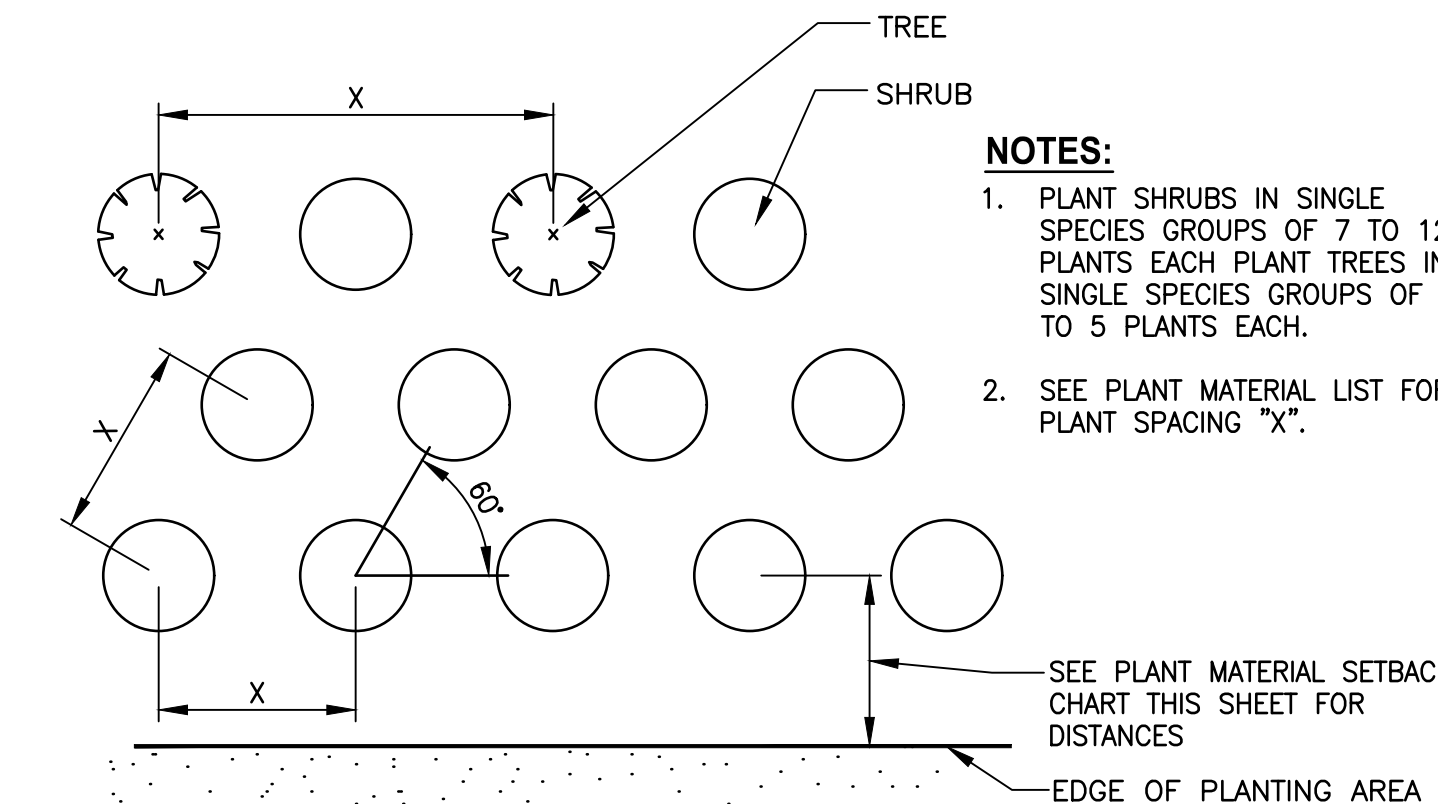
SHRUB AND SMALL TREE PLANTING DETAIL
NO SCALE



CONIFEROUS TREE PLANTING DETAIL
NO SCALE

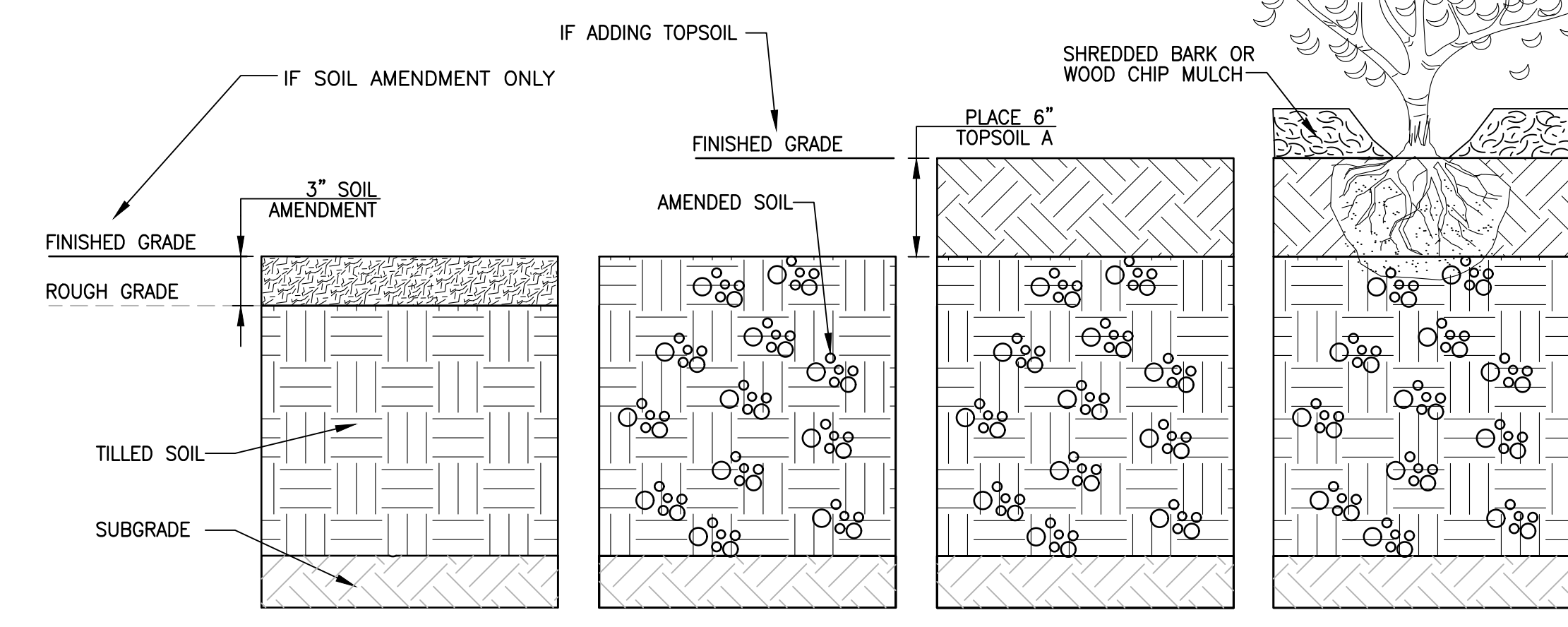


DECIDUOUS TREE PLANTING DETAIL
NO SCALE



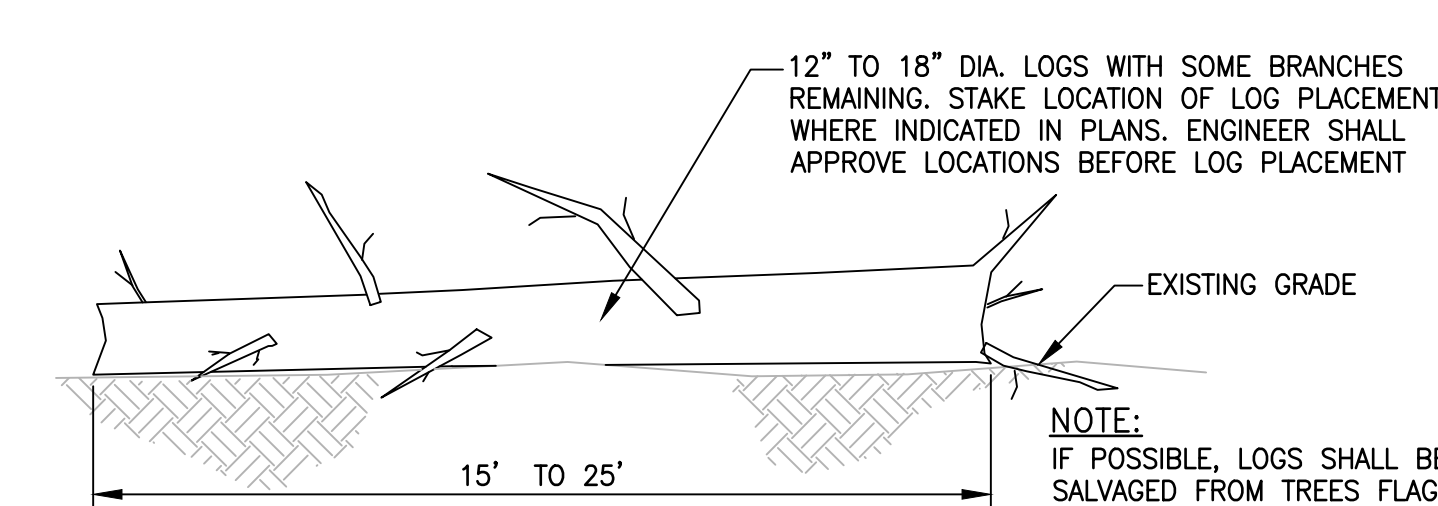
TYPICAL TREE AND SHRUB SPACING DETAIL
NO SCALE

- NOTES:**
1. PLANT SHRUBS IN SINGLE SPECIES GROUPS OF 7 TO 12 PLANTS EACH. PLANT TREES IN SINGLE SPECIES GROUPS OF 1 TO 5 PLANTS EACH.
 2. SEE PLANT MATERIAL LIST FOR PLANT SPACING "X".
- SEE PLANT MATERIAL SETBACK CHART THIS SHEET FOR DISTANCES

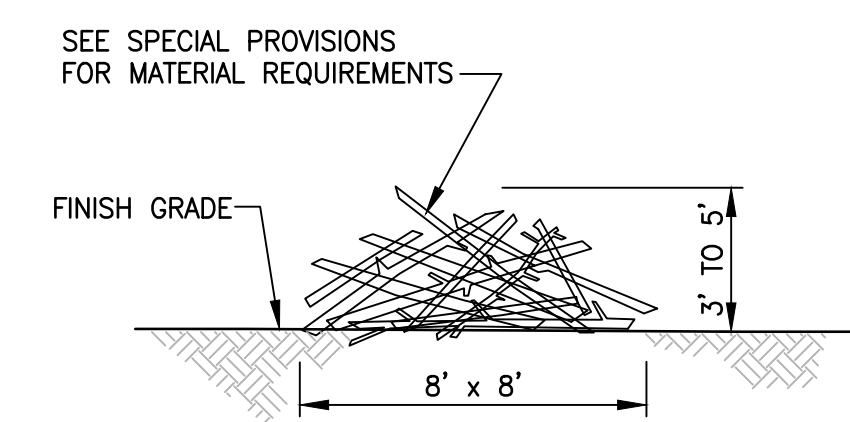


PLANTING AREA SOIL PREPARATION SEQUENCE OF WORK DETAIL
NO SCALE

- STEP 1**
TILL, DISC OR RIP SOIL IN PLANTING AREAS TO 10" DEPTH. PLACE 3" OF SOIL AMENDMENT OVER SOIL SURFACE.
- STEP 2**
TILL SOIL AMENDMENT INTO TOP 10" OF ENTIRE PLANTING ZONES' NATIVE SOIL AFTER CLEARING AND GRUBBING.
- STEP 3**
PLACE TOPSOIL.
- STEP 4**
INSTALL PLANTS FOLLOWED BY 3" WOOD CHIP MULCH.



HABITAT LOG DETAIL
NO SCALE



HABITAT BRUSH PILE DETAIL
NO SCALE

PLANT MATERIAL SETBACK CHART

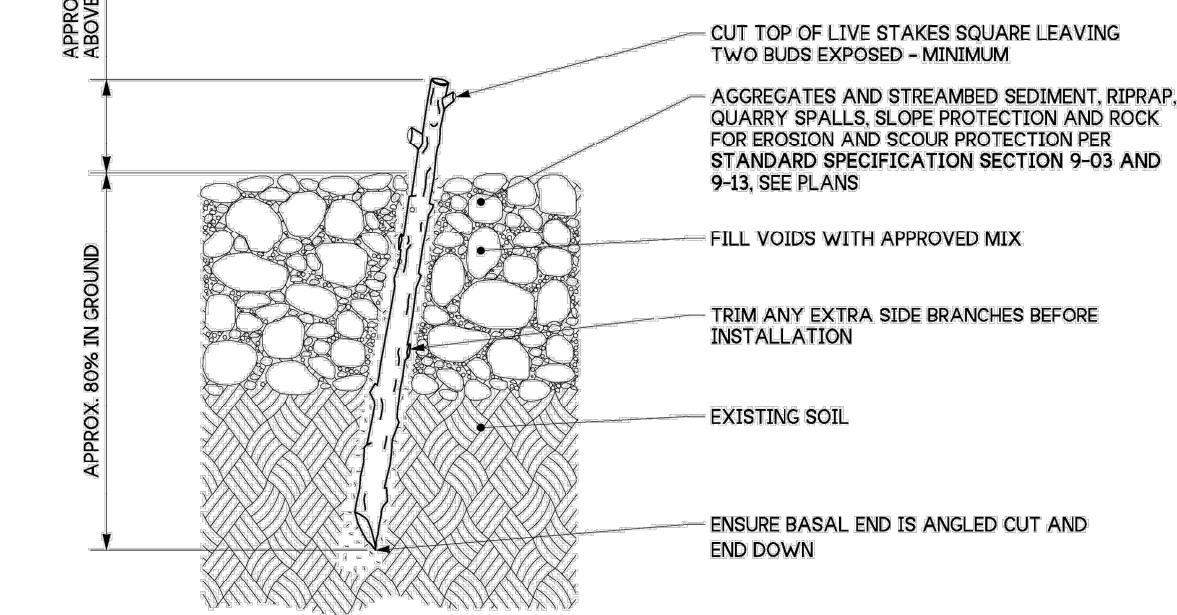
	GUARDRAIL BARRIER	EDGE OF ROADWAY	PATHS, TRAILS	WALL	FENCE	SIGNS	EXISTING TREE, TRUNK	EXISTING VEGETATION MASS	WITHIN SIGHT DISTANCE TRIANGLE	WATER METER
EVERGREEN TREE	15'	15'	15'	8'	8'	15'	10'	-	NOT ALLOWED	5'
ORNAMENTAL/NATIVE DECIDUOUS TREE	6'	6'	15'	8'	8'	15'	10'	-	NOT ALLOWED	5'
MEDIUM AND LARGE SHRUBS - GREATER THAN 3' TALL	5'	5'	10'	3'	3'	6'	5'	5'	NOT ALLOWED	5'
SMALL SHRUB - LESS THAN 3' TALL	3'	5'	3'	2'	3'	2'	5'	5'	OK	1.5'

TYPICAL MINIMUM DISTANCE SETBACKS ARE TO THE CENTER STEM OR TRUNK OF PLANT MATERIAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER DURING LAYOUT AND STAKING OF PLANT LOCATIONS.

PLANT MATERIALS LIST

QUANTITY	BOTANICAL NAME	COMMON NAME	MIN SIZE / CONDITION	NOTES/SPACING
RIPARIAN BUFFER PLANTING AREAS				
<i>Trees</i>				
4	ACER MACROPHYLLUM	BIG-LEAF MAPLE	1" CALIPER	SPACE 10' O.C.
4	FRAXINUS LATIFOLIA	OREGON ASH	1" CALIPER	
3	PICEA SITCHENSIS	SITKA SPRUCE	4' HT	
4	PRUNUS EMARGINATA	BITTER CHERRY	1" CALIPER	
3	PSEUDOTSUGA MENZIESII	DOUGLAS-FIR	4' HT	
7	RHAMNUS PURSHIANA	CASCARA	1" CALIPER	
3	THUJA PLICATA	WESTERN RED CEDAR	4' HT	
<i>Shrubs</i>				
6	ACER CIRCINATUM	VINE MAPLE	12" HT/ #1 CONT	SPACE 4.5' O.C.
11	AMELANCHIER ALNIFOLIA	WESTERN SERVICEBERRY	12" HT/ #1 CONT	
11	HOLODISCUS DISCOLOR	OCEAN SPRAY	12" HT/ #1 CONT	
17	MAHONIA AQUIFOLIUM	TALL OREGON GRAPE	12" HT/ #1 CONT	
6	PHILADELPHUS LEWISII	MOCK ORANGE	12" HT/ #1 CONT	
11	PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	12" HT/ #1 CONT	
11	RIBES SANGUINEUM	RED FLOWERING CURRANT	12" HT/ #1 CONT	
17	ROSA NUTKANA	NOOTKA ROSE	12" HT/ #1 CONT	
23	SYMPHORICARPOS ALBUS	SNOWBERRY	12" HT/ #1 CONT	
<i>Low Shrubs</i>				
35	GAULTHERIA SHALLON	SALAL	#1 CONT/ 3" HT	SPACE 2.5' O.C.
35	MAHONIA REPENS	LOW OREGON GRAPE	#1 CONT/ 6" HT	
46	POLYSTICHUM MUNITUM	SWORD FERN	#1 CONT/ 6" HT	
RIPARIAN BUFFER ENHANCEMENT AREA				
<i>Shrubs</i>				
7	MAHONIA AQUIFOLIUM	TALL OREGON GRAPE	12" HT/ #1 CONT	SPACE 4.5' O.C.
7	ROSA NUTKANA	NOOTKA ROSE	12" HT/ #1 CONT	
7	SYMPHORICARPOS ALBUS	SNOWBERRY	12" HT/ #1 CONT	
STREAMSIDE PLANTINGS				
<i>Livestake Cuttings</i>				
60	CORNUS SERICEA	RED-TWIG DOGWOOD	1/2" DIA. X 36" CUTTING	SPACE 2' O.C.
60	SALIX SITCHENSIS	SITKA WILLOW	1/2" DIA. X 36" CUTTING	
TRAILSIDE PLANTING AREAS				
<i>Trees</i>				
9	PSEUDOTSUGA MENZIESII	DOUGLAS-FIR	4' HT	SPACE 4.5' O.C.
9	RHAMNUS PURSHIANA	CASCARA	1" CALIPER	
<i>Shrubs</i>				
7	ACER CIRCINATUM	VINE MAPLE	12" HT/ #1 CONT	SPACE 4.5' O.C.
10	MAHONIA AQUIFOLIUM	TALL OREGON GRAPE	12" HT/ #1 CONT	
7	PHILADELPHUS LEWISII	MOCK ORANGE	12" HT/ #1 CONT	
10	RIBES SANGUINEUM	RED FLOWERING CURRANT	12" HT/ #1 CONT	
10	ROSA NUTKANA	NOOTKA ROSE	12" HT/ #1 CONT	
24	SYMPHORICARPOS ALBUS	SNOWBERRY	12" HT/ #1 CONT	
<i>Low Shrubs</i>				
369	GAULTHERIA SHALLON	SALAL	#1 CONT/ 3" HT	SPACE 2.5' O.C.
369	MAHONIA REPENS	LOW OREGON GRAPE	#1 CONT/ 6" HT	
738	POLYSTICHUM MUNITUM	SWORD FERN	#1 CONT/ 6" HT	
INTERSECTION PLANTING AREAS				
<i>Low Shrubs</i>				
37	CORNUS SERICEA 'KELSEY'	KELSEY DWARF DOGWOOD	#2 CONT/ 9" HT	SPACE 2.5' O.C.
37	HEMEROCALLIS 'STELLA DE ORO'	DAYLILY	#1 CONT/ 3" HT	
32	POLYSTICHUM MUNITUM	SWORD FERN	#1 CONT/ 6" HT	

- NOTES:**
1. PRE-PILOT HOLE WITH REBAR OR STAR DRILL NO GREATER THAN 1/2" (IN) SIZE.
 2. INSTALL LIVE STAKES USING HANDS. DO NOT HAMMER DIRECTLY ON LIVESTAKE
 3. AVOID STRIPPING BARK OR BRUISING PLANT MATERIAL DURING INSTALLATION.
 4. FILL VOIDS AROUND HOLE AFTER INSTALLATION.



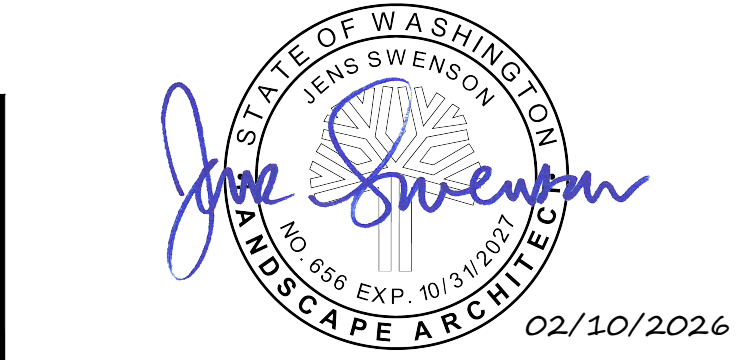
LIVE STAKE INSTALLATION DETAIL
NO SCALE



Conformed Set

REVISIONS	DATE	BY	DESIGNED
			J. CERALDE
			B. PURGANAN
			J. SWENSON
			C. BUITRAGO

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
 FILE NAME: BL1521075P19T03LD-01_GDC
 JOB No.: 54-1521-075 P28 T04
 DATE: FEBRUARY 2026



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 Ph: 206.394.3700

PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL GEORGE DAVIS CREEK CULVERT REPLACEMENTS
 SAMMAMISH, WA

PLANTING DETAILS

SHEET NO. 31 OF 35
LD1

PATH: U:\PSO\Projects\Clients\1521-075-ELST\985\CA000\Phase 19\T03_Civil\Draw-GDC_2025\DWG\ LAYOUT: LD2 PLOTTED BY: purgabut DATE: Tuesday, February 10, 2026 7:06:21 AM

1.1 Restoration Goals, Objectives, and Performance Standards

The overall goal for the George Davis Creek fish passage improvement project is to improve instream habitat and replace habitats and functions of riparian conditions lost as a result of the project. The proposed stream restoration of George Davis Creek (Type F stream) will occur both upstream and downstream of the trail by installing fish passable culverts, improving instream habitat through re-routing and regrading portions the stream to address steep topography, physical constraints around the stream, and sediment loads within the stream, and daylighting the stream in the trail right of way. The existing twin culverts beneath the trail will be replaced with a new 20-foot-long, 17-foot-span, 9.5-foot-rise concrete box culvert that is fish passable. The proposed new structure at the East Lake Sammamish Shore Lane NE crossing will be a 20-foot long, 17-foot span, 10-foot rise concrete box culvert. Restoration of the riparian stream buffer vegetation involves enhancement of 4,525 sf or 0.104 acre of buffer adjacent to George Davis Creek with native woody shrubs. Specific goals and objectives formulated to achieve this result are presented below.

The new crossings will be coordinated with two projects being conducted by the City of Sammamish including the replacement of the culvert beneath East Lake Sammamish Parkway and daylighting George Davis Creek downstream of East Lake Sammamish Shore Lane NE. The City will be responsible for monitoring their project areas; however, the existing alignment of George Davis Creek will need to be re-aligned so that both the King County's and the City of Sammamish fish passage improvement projects will align with one another. In effect the existing stream channel between East Lake Sammamish Trail and the Interim Use Trail will be filled and a new channel established just south of the existing channel.

1.1.1 Restoration Goals

The restoration goals are:

- Replace two fish barrier culverts on George Davis Creek with fish passable culverts.
- Establish/restore 0.104 acre of forested stream buffer. Achievement of these goals is expected to provide the following improvements to stream and stream buffer functions:
 - Provide additional fish habitat by removing fish barriers, increasing open stream channel, and opening up available upstream habitat.
 - Increase the production of organic matter by planting trees and shrubs in the established/restored stream buffer.
 - Increase fish and wildlife habitat and improve biological diversity by planting with a variety of native buffer plant species and by installing habitat features (habitat logs and brush piles).

1.1.2 Restoration Objectives and Performance Standards

1.1.2.1 Streams

Instream Habitat

Objective 1: Replace existing fish barrier culverts at the George Davis Creek trail crossing and East Lake Sammamish Shore Lane NE with fish passage culverts to open up available upstream habitat.

Performance Standards:

Year 1, 3, and 5 Constructed habitat elements including the new fish passable culverts, regraded channels, and streambed material will remain in place as constructed at the two culvert replacement sites. An individual culvert monitoring plan has been developed for the George Davis Creek culverts that will guide monitoring at these culverts.

1.1.2.2 Stream Buffers Areas

Objective 2: Establish/Restore a minimum of 0.104-acre of forested stream buffer.

Performance Standards:

Year 1 Survival of planted woody species in increased/enhanced wetland buffer and enhanced stream buffer areas will be at least 80 percent.

Year 2 Record percent cover of native woody species in increased/enhanced wetland buffer and enhanced stream buffer areas to establish a baseline for areal cover.

Year 3 Native woody species will achieve a minimum of 25 percent areal cover in the restored stream buffer area.

Year 5 Native woody species will achieve a minimum of 50 percent areal cover in the restored stream buffer area.

1.1.2.3 Invasive Species

Objective 3: Limit invasive non-native species throughout the restoration site planting areas.

Performance Standards:

Year 1, 2, 3, 5 Himalayan blackberry, cutleaf blackberry, Scotch broom, English ivy, reed canarygrass, and hedge false bindweed will not exceed 20 percent areal cover in all planting areas.

1.1.2.4 Wildlife Habitat

Objective 4: Provide wildlife habitat.

Performance Standards:

Year 1, 2, 3, 5 Increase in areal cover of native woody species in all restoration areas, as measured in Objectives 1 and 2 to be used as a surrogate to indicate increasing habitat functions.

Year 1, 3, 5 Increase in species richness of native species over preexisting conditions in all restoration areas, as measured in Objectives 1

Year 1, 2, 3, 5 Installed habitat features are present and functional.

1.1.2.5 Anthropogenic Disturbance

Objective 5: Protect the restoration site from anthropogenic disturbance.

Performance Standards:

Year 1 through 5 Conduct qualitative monitoring to assess the status of the site yearly during the 5-year monitoring period to monitor for human disturbance, including but not limited to filling, trash, and vandalism.

Year 1 through 5 Install and maintain fences and appropriate signs along the trail adjacent to each site to identify their protected status.

1.2 Record Drawings

Record drawings and/or a report documenting the as-built or installed conditions will be prepared after construction and plantings are complete. The report will include the following components: (1) drawings that clearly identify the boundaries of the restoration areas; (2) locations of the sampling and monitoring sites (including photo-point locations); (3) locations of hydrology monitoring stations; (4) photographs of the restoration sites; and (5) an analysis of any changes to the restoration plan that occurred during construction. A copy of the record drawing report will be sent to the City and USACE within 60 days of completion of construction and planting.

1.3 Monitoring

The restoration areas will be monitored during and after construction. During construction, monitoring will ensure that the BMPs are observed to minimize impacts, and the on-site construction work (including grading and planting) will be coordinated to ensure that the sites are constructed as designed.

After construction is completed, long-term monitoring will be performed annually to ensure that the goals and objectives of the restoration are being met. Monitoring of the restoration areas will be performed over a 5-year period by a qualified professional (SMC 21A.50.145). A combination of quantitative and qualitative monitoring activities will be used to assess the management objectives and associated performance standards described in the restoration plan. Activities will include site visits to monitor unnatural site disturbance, photographs to document site development, and data collection for the quantitative evaluation of performance standards. The results of the monitoring will be submitted to the permitting agencies.

Appropriate contingency measures will be developed, as needed, by a qualified professional to ensure that the sites develop healthy vegetation that meets the obligations described in this restoration plan and the associated permits.

1.3.1 Quantitative Monitoring

The following bulleted items describe the methods to be used for the quantitative monitoring, monitoring schedule, and report deadlines.

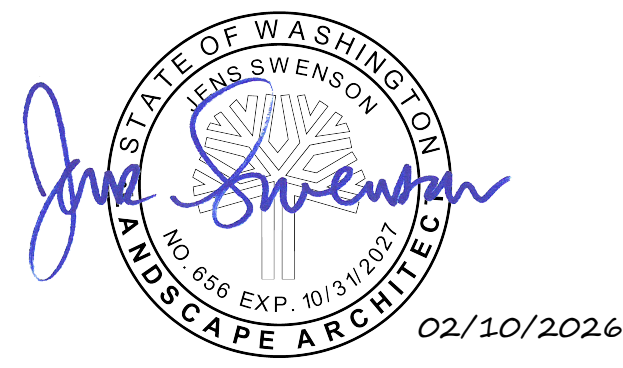
- The planting sites will be assessed by an appropriate quantitative vegetative field assessment methodology. The line intercept method will be used for determining percent areal cover for woody and invasive species.
- Quantitative vegetation assessments will follow the same method in each consecutive monitoring year.
- Quantitative vegetation assessments will be performed between June 15 and September 15 of each monitoring year.
- Monitoring reports will be sent to agencies requiring monitoring reports by October 31 of each monitoring year.
- Permanent photographic stations will be established to monitor the development of the sites. Photographs will be taken along transect lines and from vantage points that capture the general restoration area. All photographs will be labeled to identify locations.



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REVISIONS	DATE	BY	DESIGNED
			J. CERALDE
			DRAWN B. PURGANAN
			CHECKED J. SWENSON
			APPROVED C. BUITRAGO

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PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
GEORGE DAVIS CREEK CULVERT REPLACEMENTS**
SAMMAMISH, WA

MITIGATION NOTES

SHEET NO.
32 OF 35
LD2

Conformed Set

LAYOUT: LD3
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1.3.2 Qualitative Monitoring

Qualitative monitoring will be conducted as follows:

- A qualified professional will qualitatively assess the constructed habitat elements including the new fish passable culverts, regraded channels, and streambed material for the first 3 years.
- Qualitative assessment will be performed yearly to visually assess the health of plants and identify areas that may need control of non-native invasive species or other maintenance activities.
- During all qualitative monitoring years, photographic documentation of the site will occur from permanent photograph stations.

1.4 Maintenance

The proposed restoration is intended to achieve the performance standards with minimal ongoing maintenance. However, King County will manage and maintain the site for 5 years, or until all performance standards are met and the site is closed with the approval of permitting agencies.

As mentioned previously, King County Parks has a formal maintenance program for its trail mitigation and restoration projects. The County understands that regular maintenance is necessary to achieve its mitigation and restoration commitments in public trail corridors.

Planted vegetation species are adapted to varying site conditions in the Puget Sound lowland, although supplemental irrigation may be needed during the first two growing seasons after installation to ensure the long-term survival of the plants. The need for irrigation will be evaluated based on the conditions observed during the establishment period.

To ensure rapid establishment of the plant community, trees and shrubs will be planted closer together than would generally occur in natural mature stands. Some natural mortality is expected to occur during the monitoring period. All dead and downed woody material will be left in place to provide microhabitats for wildlife. Plants will be replaced as needed to meet performance standards.

Maintenance to control nuisance species in the restoration areas will likely be necessary. During the monitoring period, if it becomes evident that invasive species are impeding establishment of desirable native plants, measures will be implemented to control nuisance species. A progressively aggressive approach will be used to control nuisance species. Control measures will first include hand cutting and/or grubbing and removal; if this fails, an environmentally sensitive herbicide (e.g., Rodeo or equivalent) may be applied.

A project specific Vegetation Management Plan (VMP) will identify the practices, policies, and procedures for addressing hazard trees, maintaining vegetation at intersections within sight distance triangles and along the trail corridor, addressing noxious weeds, and maintaining drainage features (ditches, pipes, culverts). King County is currently redesigning drainage to comply with the most current stormwater regulations. King County will provide a segment specific update to the Vegetation Management Plan, including a maintenance schedule.

There are some specific instances where care needs to be taken when conducting regularly scheduled maintenance activities. This is directly related to management activities within restoration sites as well as for the protection of existing critical area features such as streams that are adjacent to the alignment and are detailed further below.

1.4.1 Ditch Maintenance Activities

Care needs to be taken when conducting maintenance on ditches that drain to streams or those that are associated with wetlands. Activities such as removal of accumulated sediment can alter flow patterns, alter the hydroperiod of wetlands, and encourage growth of invasive and noxious plant species. It is recommended that accumulated sediment removal from ditches be limited only to that necessary to maintain flow within the ditch (top 1 to 2 inches of accumulated sediment). In addition, over-excavation can also result in removal of native vegetation and may interfere with the success of restoration areas in meeting their specific identified performance standards during regularly scheduled maintenance activities.

1.4.2 Vegetation Maintenance

Care should be taken when maintaining vegetation along the trail alignment, particularly within trailside wetlands, restoration areas and along streams. It is recommended that these areas be clearly marked and differentiated from landscaping areas so that each area specific maintenance needs are met. Vegetation in restoration areas should never be mowed. Instead vegetation should only be trimmed to the extent that the trail remains unobstructed and to maintain adequate flow conveyance through ditch systems along the trail. This will ensure that restoration areas meet their target performance standards during regularly scheduled monitoring.

1.5 Contingency Measures

Adaptive management is driven by the monitoring results and the performance standards. If the performance standards are not met, adaptive management activities will be implemented to achieve the desired condition. Management activities may include implementation of contingencies described in Table 5-5, or other appropriate measures. Site conditions will be evaluated to determine the cause of the problem and the most appropriate countermeasure.

Table 5-5. Contingency Measures for the Restoration Site

Problem	Contingency Measure
Less than 80% of planted woody species survive in Year 1	King County biologists (or other qualified biologist) will assess the site to determine what conditions are preventing the plants from thriving. Appropriate measures will be taken to correct any conditions that are limiting growth. Plants will be replaced with appropriate native species to achieve the Year 1 standard. Additional measures (such as providing additional protection) will be considered if necessary.
Percent cover for woody species not met during Years 3, 5	King County biologists (or other qualified biologist) will assess the site to determine what conditions are preventing the plants from thriving. Appropriate measures, such as increased weed control or extra plantings, will be taken to correct any conditions that are limiting growth.
Invasive species exceed percent cover threshold	Implement/revise invasive species control plan.
Performance standards not met at Year 5	Continue the monitoring regime for 1 additional year. The site will continue to be evaluated every year until each site has met the stated performance standards associated with management objectives. Other contingency measures may be implemented during this period.

Information from the annual monitoring program will be used to identify any maintenance and/or corrective actions. If problems are identified in monitoring, King County biologists will determine the

cause of the problem and implement proper maintenance or corrective activities. These activities will be discussed in the annual monitoring report.

1.6 Performance Security/Financial Assurance

This restoration project will be sponsored by King County. The County will implement a suitable mechanism to ensure that the project is implemented successfully and monitored for a minimum of 5 years, or until the project restoration is deemed a success by achieving its performance standards.

1.7 Site Protection

The County owns the property underlying the restoration site. They will protect the restoration site in perpetuity through a legal mechanism that permits maintenance and monitoring of the restoration area. This mechanism shall be retained by the County and may be submitted to the USACE after permit issuance, if required. In addition, permanent fencing and/or signs indicating that the area is a natural or sensitive or critical area to be protected from disturbance will be posted along the boundaries of each restoration area.

1.8 Long-term Management Plan

The restoration site is located on King County property. After attainment of performance standards and acceptance of the restoration project by the USACE, the County will implement a long-term management plan for the sites as part of trail operations, if required.

Site management activities will include noxious weed control, damage repair from vandalism, trash removal, and signage maintenance.

Monitoring reports or technical memoranda will document annual management activities and identify key issues and actions needed for the following year. Reports are anticipated to be submitted every year to the USACE, by the end of the calendar year, for the first 5 years following attainment of performance standards.

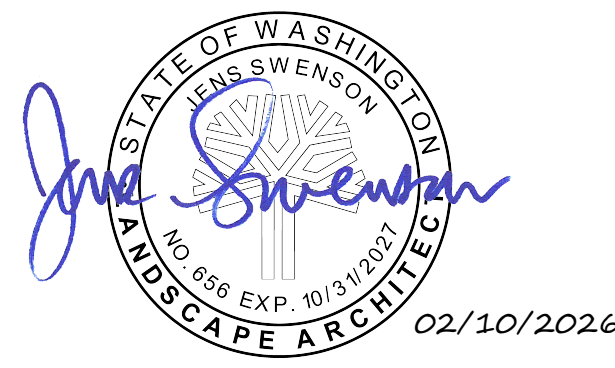
The County will issue a letter of assurance to cover long-term management costs of the restoration site to the USACE ensuring the County's compliance with the long-term management plan.



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REVISIONS	DATE	BY	DESIGNED
			J. CERIALDE
			DRAWN B. PURGANAN
			CHECKED J. SWENSON
			APPROVED C. BUITRAGO

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PROJECT NAME
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 MASTER PLAN TRAIL
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 SAMMAMISH, WA

MITIGATION NOTES

SHEET NO.
33 OF 35

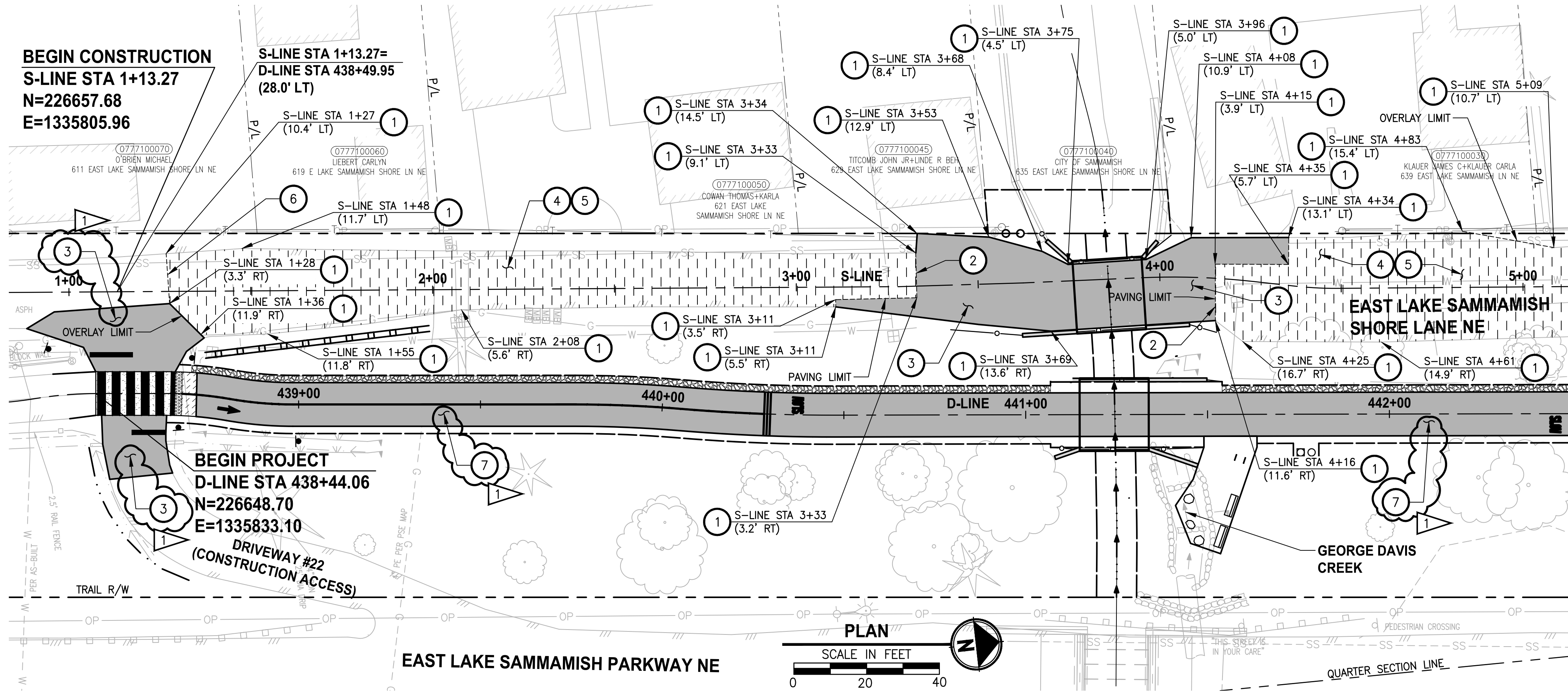
LD3

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BEGIN CONSTRUCTION
S-LINE STA 1+13.27
N=226657.68
E=1335805.96

S-LINE STA 1+13.27=
D-LINE STA 438+49.95
(28.0' LT)



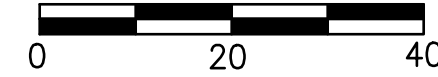
BEGIN PROJECT
D-LINE STA 438+44.06
N=226648.70
E=1335833.10

DRIVEWAY #22
(CONSTRUCTION ACCESS)

EAST LAKE SAMMAMISH PARKWAY NE

PLAN

SCALE IN FEET



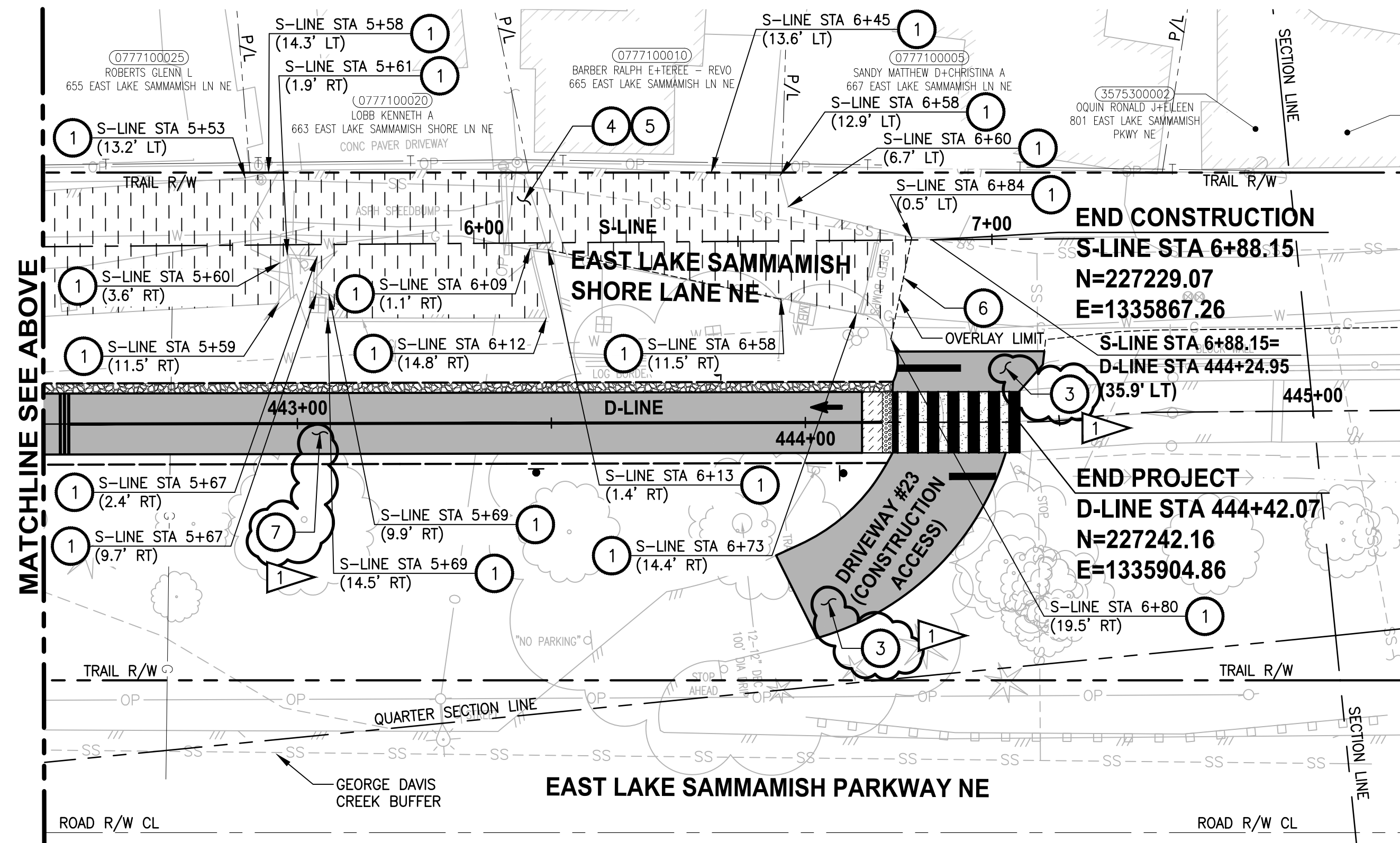
PAVING CONSTRUCTION NOTES:

- 1 EDGE OF PAVEMENT.
- 2 TRANSVERSE JOINT, SEE DETAIL 2 ON SHEET MD2.
- 3 HMA CL 1/2" PG 58H-22.
- 4 HMA CL 1/2" PG 58H-22 FOR OVERLAY.
- 5 PLANING BITUMINOUS PAVEMENT 2 INCH DEPTH.
- 6 BUTT JOINT, SEE DETAIL 3 ON SHEET MD2.
- 7 HMA CL 3/8" PG58H-22.

LEGEND:

- HMA LIMIT
- PLANING AND 2" HMA PAVEMENT OVERLAY
- HMA PAVING

MATCHLINE SEE BELOW



MATCHLINE SEE ABOVE

EAST LAKE SAMMAMISH PARKWAY NE

PLAN

SCALE IN FEET



END CONSTRUCTION

S-LINE STA 6+88.15
N=227229.07
E=1335867.26

S-LINE STA 6+88.15=
D-LINE STA 444+24.95
(35.9' LT)

END PROJECT

D-LINE STA 444+42.07
N=227242.16
E=1335904.86

DRIVEWAY #23
(CONSTRUCTION ACCESS)



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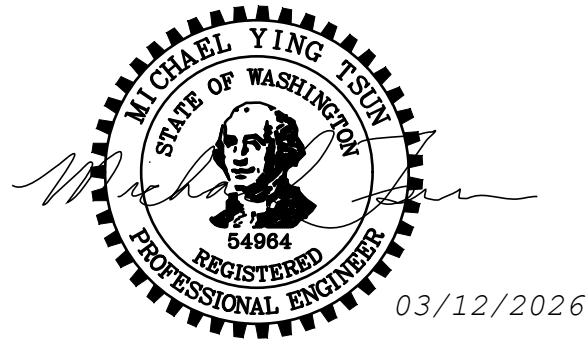
REVISIONS	DATE	BY	DESIGNED
1	3/11/26	MYT	M. TSUN
			B. PURGANAN
			Y. HO
			C. BUITRAGO

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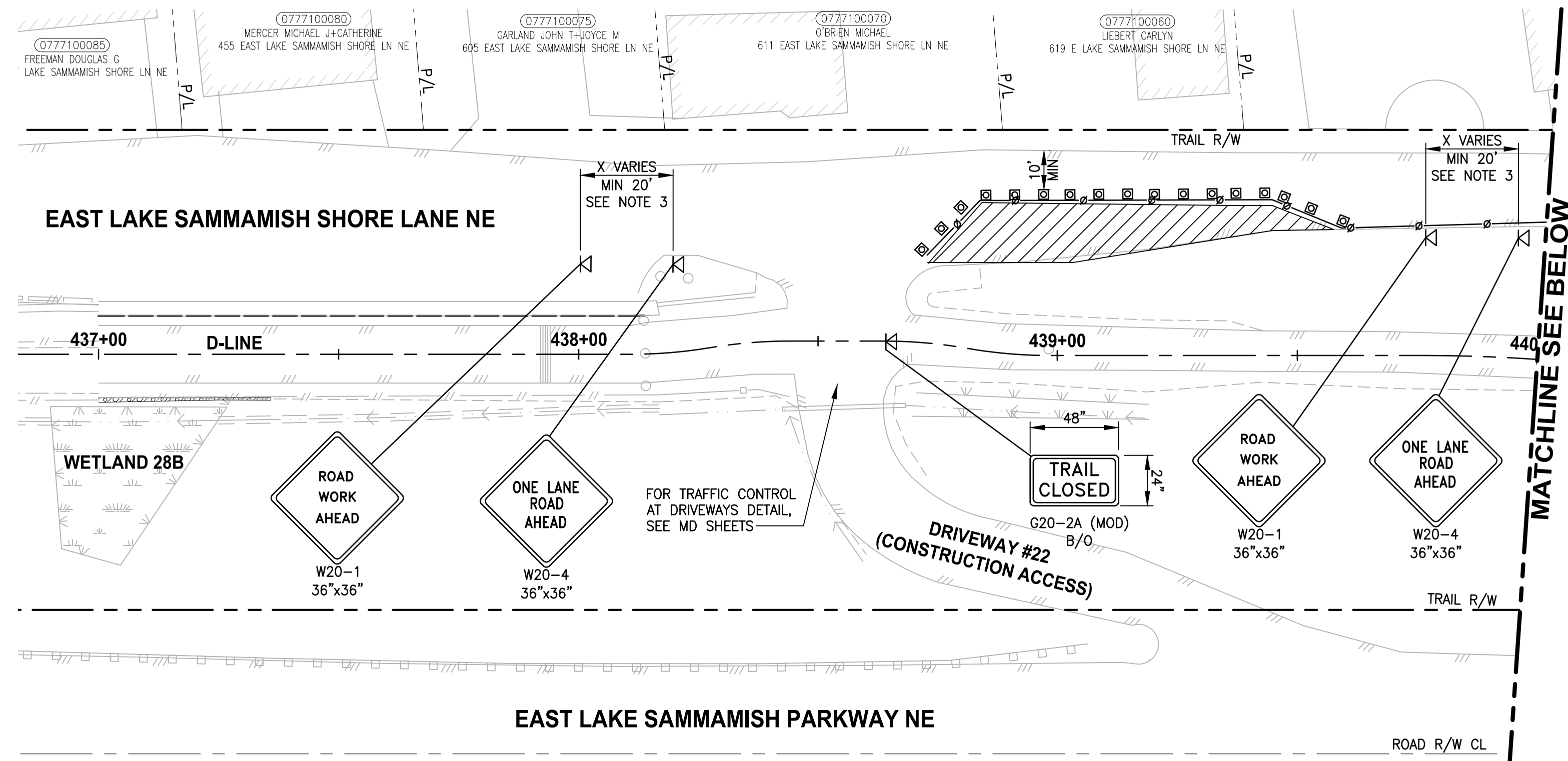
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 SAMMAMISH, WA

SHEET NO.
 34 OF 35

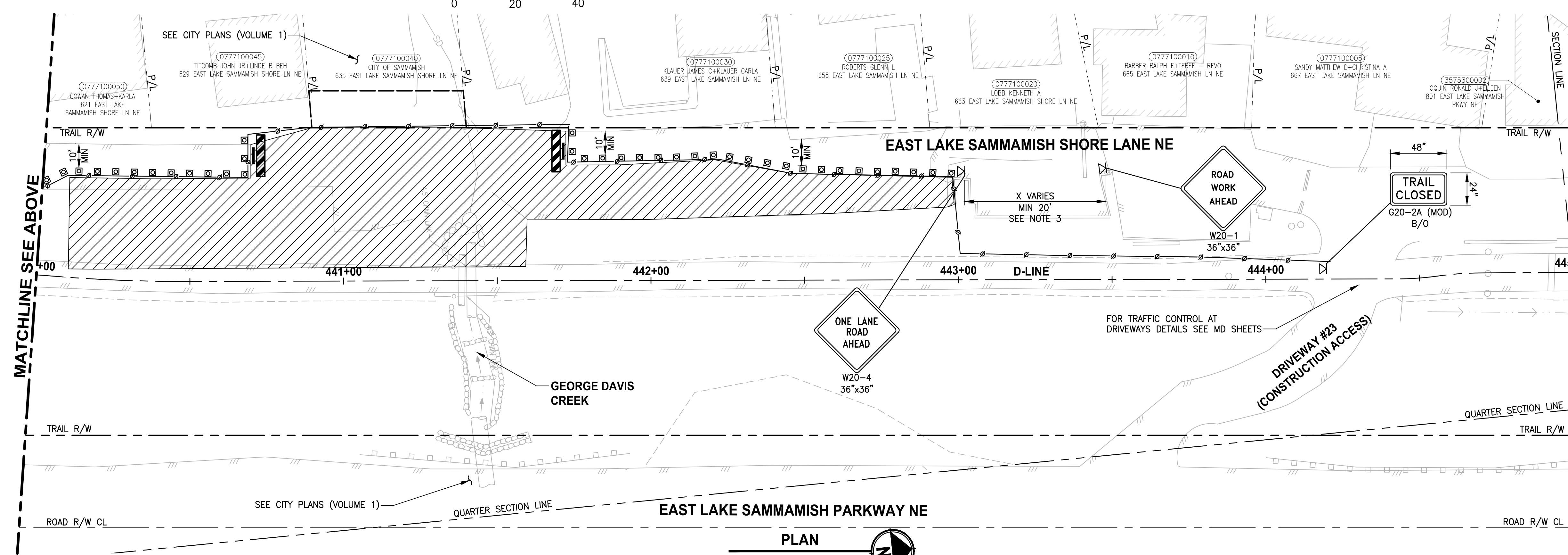
PAVING PLAN

PV1

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MATCHLINE SEE BELOW



- NOTES:**
- DRIVEWAYS SHALL REMAIN OPEN TO LOCAL ACCESS AT ALL TIMES.
 - FOR SIGN SIZES, REFER TO MUTCD.
 - SIGN SPACING MAY BE ADJUSTED/REDUCED TO ACCOMMODATE DRIVEWAY APPROACHES.

- LEGEND:**
- CHANNELIZING DEVICES
 - WORK ZONE
 - TYPE III BARRICADE. SEE APPENDIX B IN SPECIFICATIONS.
 - TEMPORARY SIGN LOCATION
 - TEMPORARY CHAIN LINK SECURITY FENCE



REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			B. PURGANAN
			Y. HO
			C. BUITRAGO

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PROJECT NAME
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 SAMMAMISH, WA

TRAFFIC CONTROL PLAN
 SHEET NO. 35 OF 35
TC1

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