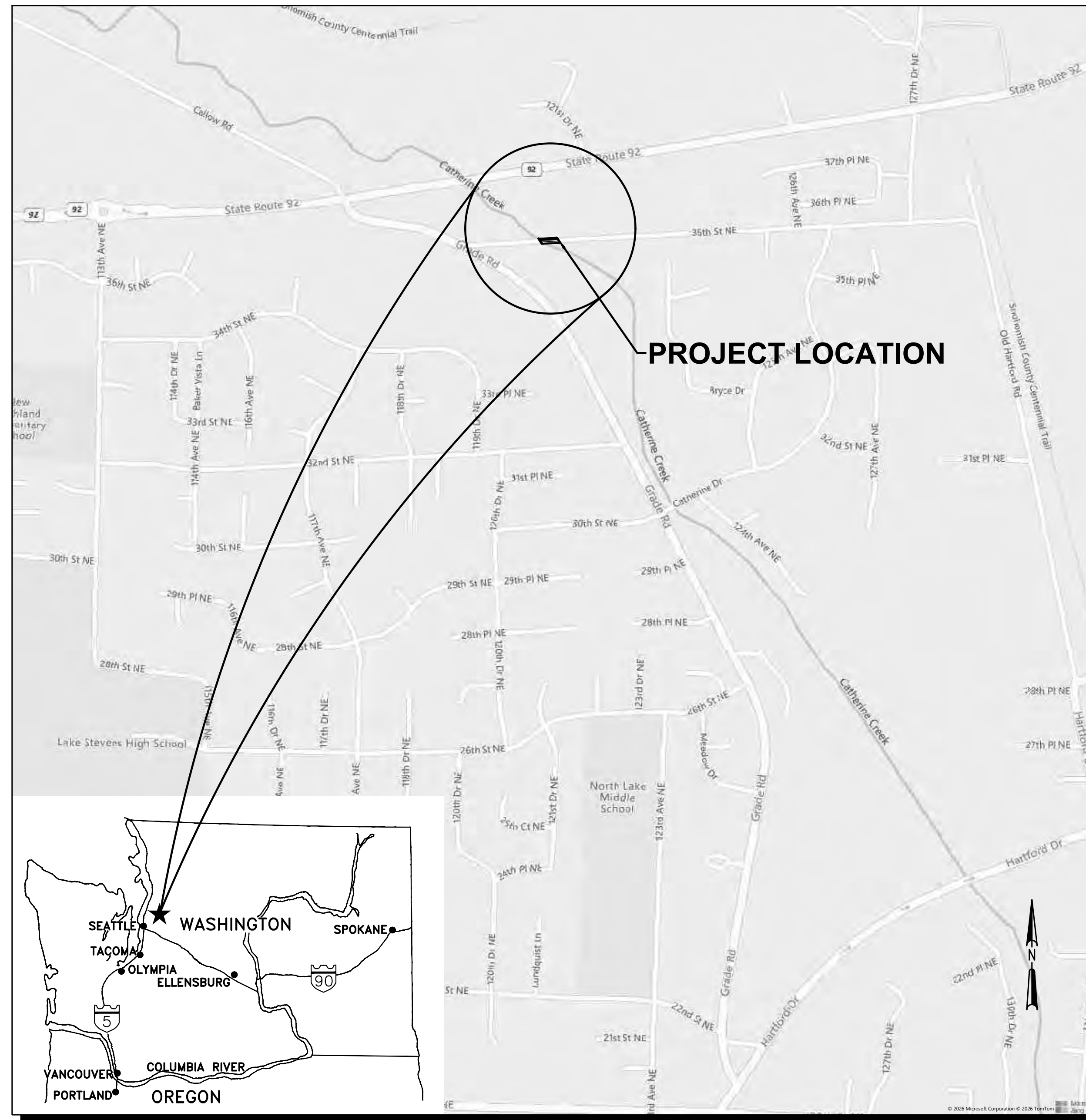


30% SUBMITTAL CATHERINE CREEK BRIDGE REPLACEMENT

CITY OF LAKE STEVENS, WA
SEC. 05, T. 29 N., R. 06 E.

**DAVID EVANS
AND ASSOCIATES INC.**
14432 SE Eastgate Way
Suite 400
Bellevue, WA 98007
425.519.6500



VICINITY MAP
NTS

SHEET INDEX		
SHEET NUMBER	PLAN REFERENCE NO.	SHEET TITLE
1	CV	INDEX & VICINITY MAP
2-3	RP	ROADWAY PLAN AND PROFILE
4	RS	ROADWAY TYPICAL SECTIONS
5	DW	DRIVEWAY PROFILES
6	CH	CHANNELIZATION PLAN
7-8	SD	STORMWATER PLAN
9-15	B	BRIDGE
16-18	W	WALLS
19-30	ST	STREAM AND FLOODPLAIN RESTORATION

CATHERINE CREEK BRIDGE REPLACEMENT
30% SUBMITTAL
CITY OF LAKE STEVENS

INDEX & VICINITY MAP

LAKE STEVENS

REVIEWED BY: REVIEW BY: _____
NO. DATE REVISION

PRELIMINARY

CHECKED BY: CHECKED BY: _____
DESIGNED BY: DESIGNED BY: _____
DRAWN BY: J. CULPEPPER

FIRST SUBMITTAL DATE: 3/02/26

PROJECT NO.
LAST0002083

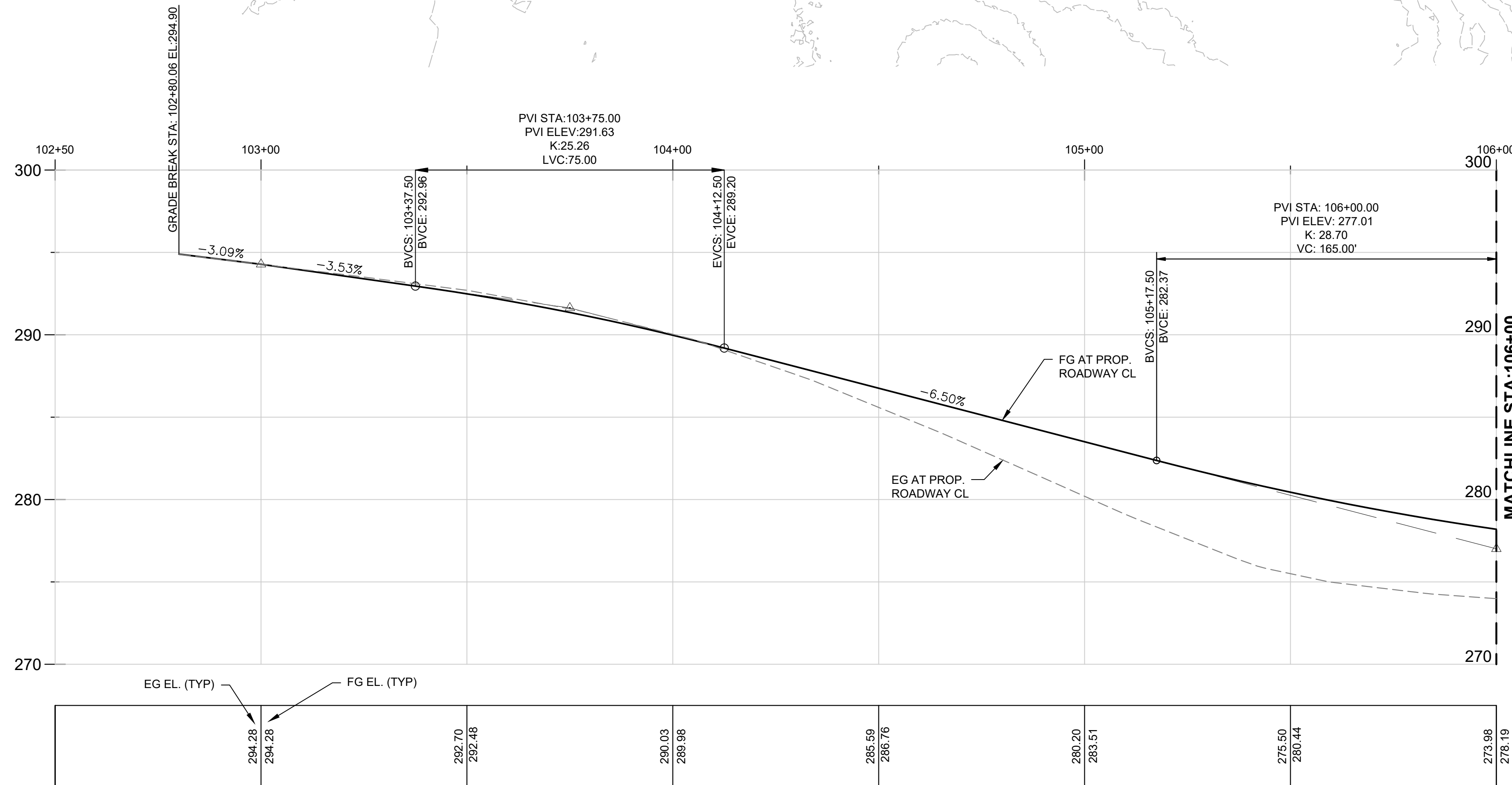
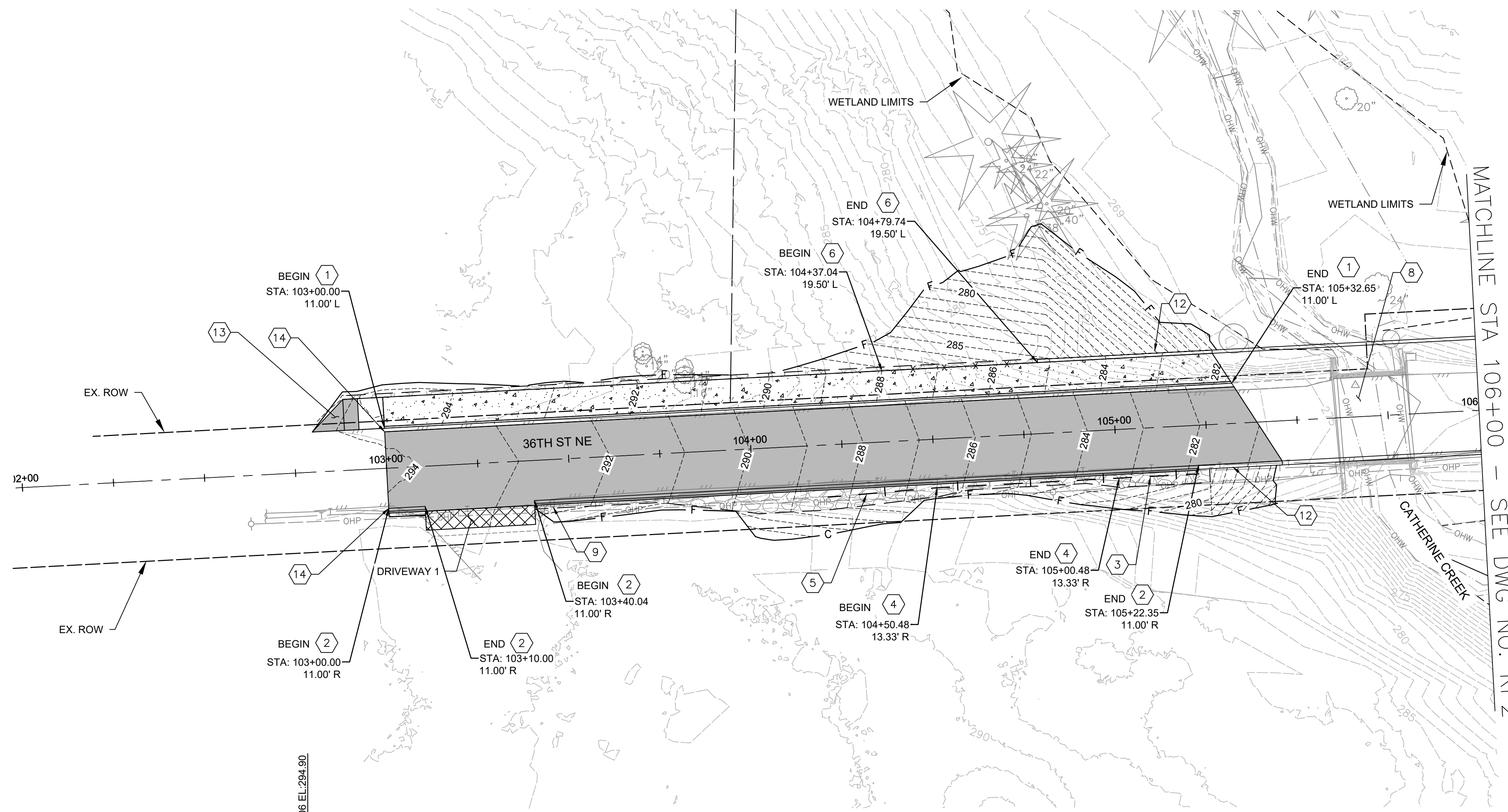
SHEET NO.
CV01

CAUTION
LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE AND MAY NOT BE ACCURATE OR ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATION OF UTILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. YOU MUST CALL 811 NOT LESS THAN 2 FULL BUSINESS DAYS BEFORE BEGINNING EXCAVATION WHERE ANY UNDERGROUND UTILITIES MAY BE LOCATED. FAILURE TO DO SO COULD MEAN BEARING SUBSTANTIAL REPAIR COSTS.

CALL
2 BUSINESS DAYS
BEFORE YOU DIG
FOR UTILITY LOCATE
811



Plot Date: 3/10/2026 3:46 PM
Save Date: 3/10/2026 3:42 PM
By: Jim Culpepper
File: P:\L\last0002083\0400CAD\EBISH\HEETS\RH-LAST2083-CV1.dwg



CONSTRUCTION NOTES:

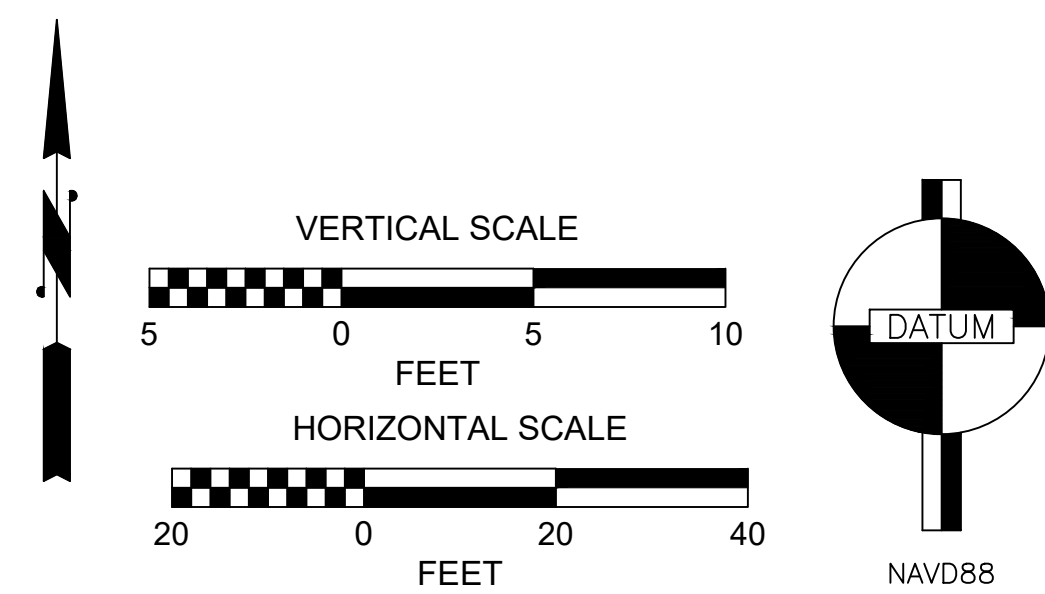
- 1 CEMENT CONC. TRAFFIC CURB AND GUTTER PER CITY OF LAKE STEVENS STD PLAN 6-220
- 2 EXTRUDED CURB PER CITY OF LAKE STEVENS STD PLAN 6-220 - CONCRETE CURB
- 3 BEAM GUARDRAIL TRANSITION SECTION TYPE 24 PER WSDOT STD PLAN C-25.30-01
- 4 BEAM GUARDRAIL TYPE 31 PER WSDOT STD PLAN C-20.10-09
- 5 BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL PER WSDOT STD PLAN C-22.45-07
- 6 PEDESTRIAN RAILING (DETAILS TO BE PROVIDED AT 60%)
- 7 NOT USED AT 30%
- 8 SEE STRUCTURAL NOTES FOR BRIDGE DETAILS
- 9 REMOVE AND REPLACE EXISTING MAILBOX
- 10 ADJUST VALVE BOX
- 11 CEMENT CONC. DRIVEWAY TYPE 1 PER CITY OF LAKE STEVENS STD PLAN 3-020 - SEE DWG NO. DW1 FOR DETAILS
- 12 SEE STRUCTURAL NOTES FOR WALL DETAILS
- 13 ASPHALT RAMP
- 14 MATCH EXISTING GRADE

LEGEND:

- GRAVEL SHOULDER (SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS)
- CEMENT CONC. SIDEWALK
- HMA CL 1/2 IN. PG 58H-22
- HMA FOR APPROACH CL 1/2 IN. PG 58H-22
- GUARDRAIL
- PEDESTRIAN RAILING
- FILL
- CUT

GENERAL NOTES:

- 1. SEE DRAINAGE SHEETS FOR ALL STORM DRAIN IMPROVEMENTS

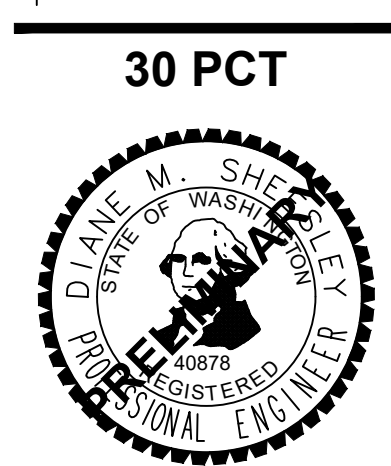


NOT FOR CONSTRUCTION



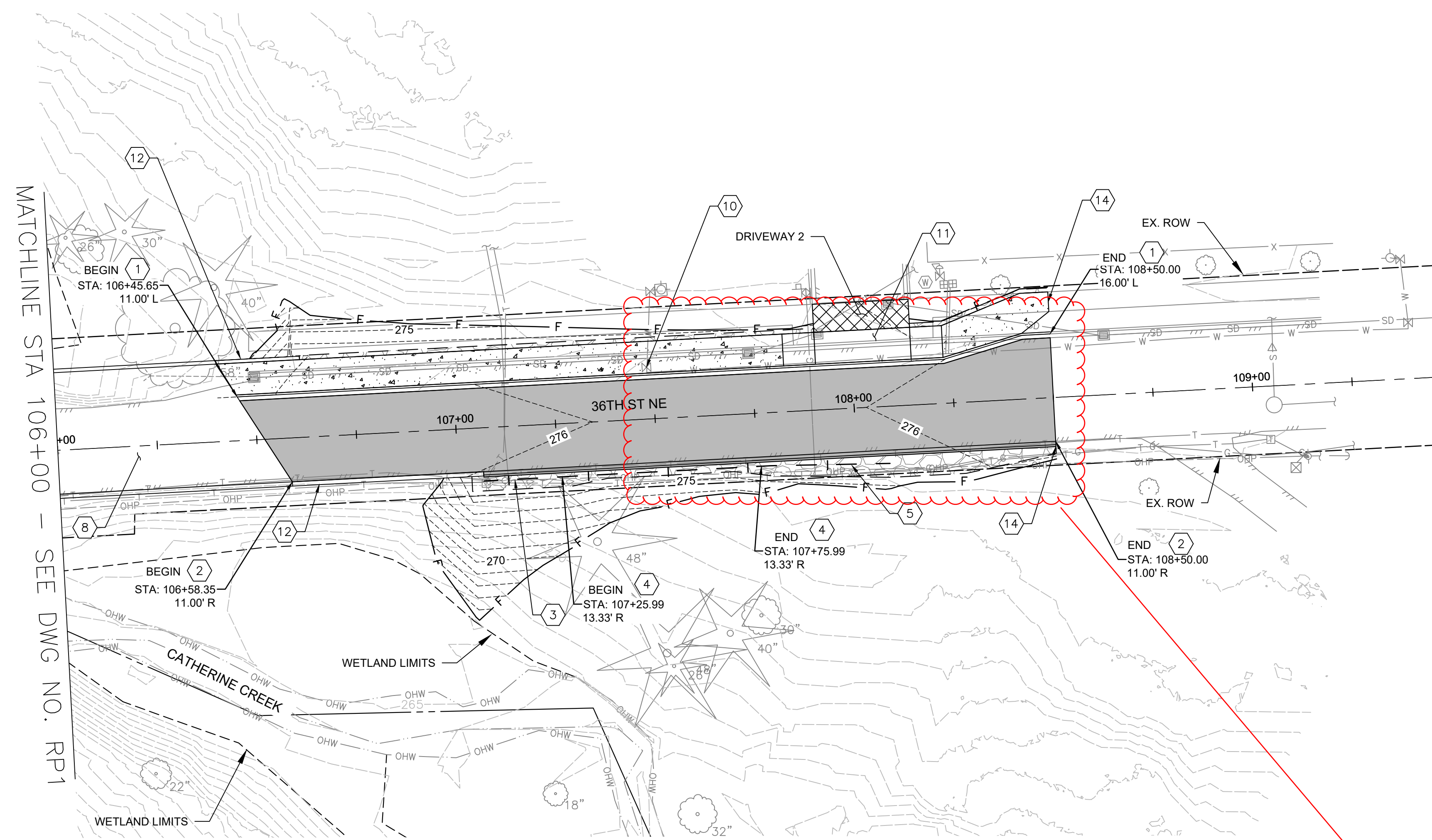
WA
 CITY OF LAKE STEVENS
ROADWAY PLAN AND PROFILE
 LAKE STEVENS

REVIEWED BY:	DATE:
NO.	DATE
REVISION	BY
CK	



30 PCT
 CHECKED BY: DMS
 DESIGNED BY: KVV
 DRAWN BY: MJH
 FIRST SUBMITTAL DATE: 03/11/26
 PROJECT NO.
LAST00002083
 SHEET NO. --- OF X
RP1

Plot Date: 3/8/2026 10:52 AM
 Save Date: 3/6/2026 3:04 PM
 By: Malahia Heck
 File: X:\lake Stevns - City Of\Projects\2024\0256 - Lake Stevns Catherine Creek Bridge Replacement\CAD\02 - Plan Sheets\2024\0256-RP.dwg



MATCHLINE STA 106+00 - SEE DWG NO. RP1

CONSTRUCTION NOTES:

- ① CEMENT CONC. TRAFFIC CURB AND GUTTER PER CITY OF LAKE STEVENS STD PLAN 6-220
- ② EXTRUDED CURB PER CITY OF LAKE STEVENS STD PLAN 6-220 - CONCRETE CURB
- ③ BEAM GUARDRAIL TRANSITION SECTION TYPE 24 PER WSDOT STD PLAN C-25.30-01
- ④ BEAM GUARDRAIL TYPE 31 PER WSDOT STD PLAN C-20.10-09
- ⑤ BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL PER WSDOT STD PLAN C-22.45-07
- ⑥ PEDESTRIAN RAILING (DETAILS TO BE PROVIDED AT 60%)
- ⑦ NOT USED AT 30%
- ⑧ SEE STRUCTURAL NOTES FOR BRIDGE DETAILS
- ⑨ REMOVE AND REPLACE EXISTING MAILBOX
- ⑩ ADJUST VALVE BOX
- ⑪ CEMENT CONC. DRIVEWAY TYPE 1 PER CITY OF LAKE STEVENS STD PLAN 3-020 - SEE DWG NO. DW1 FOR DETAILS
- ⑫ SEE STRUCTURAL NOTES FOR WALL DETAILS
- ⑬ ASPHALT RAMP
- ⑭ MATCH EXISTING GRADE

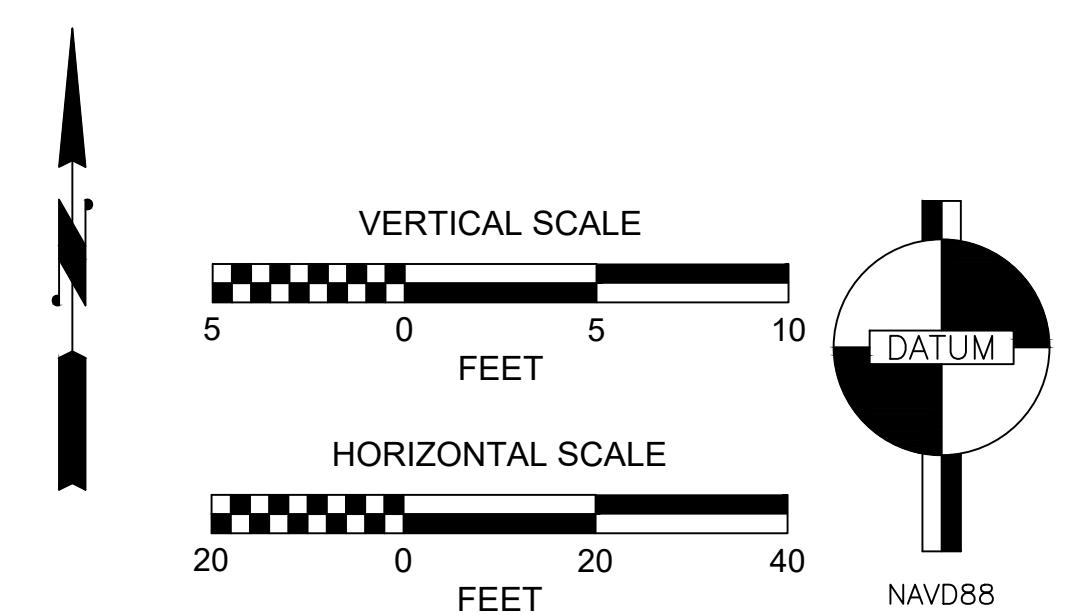
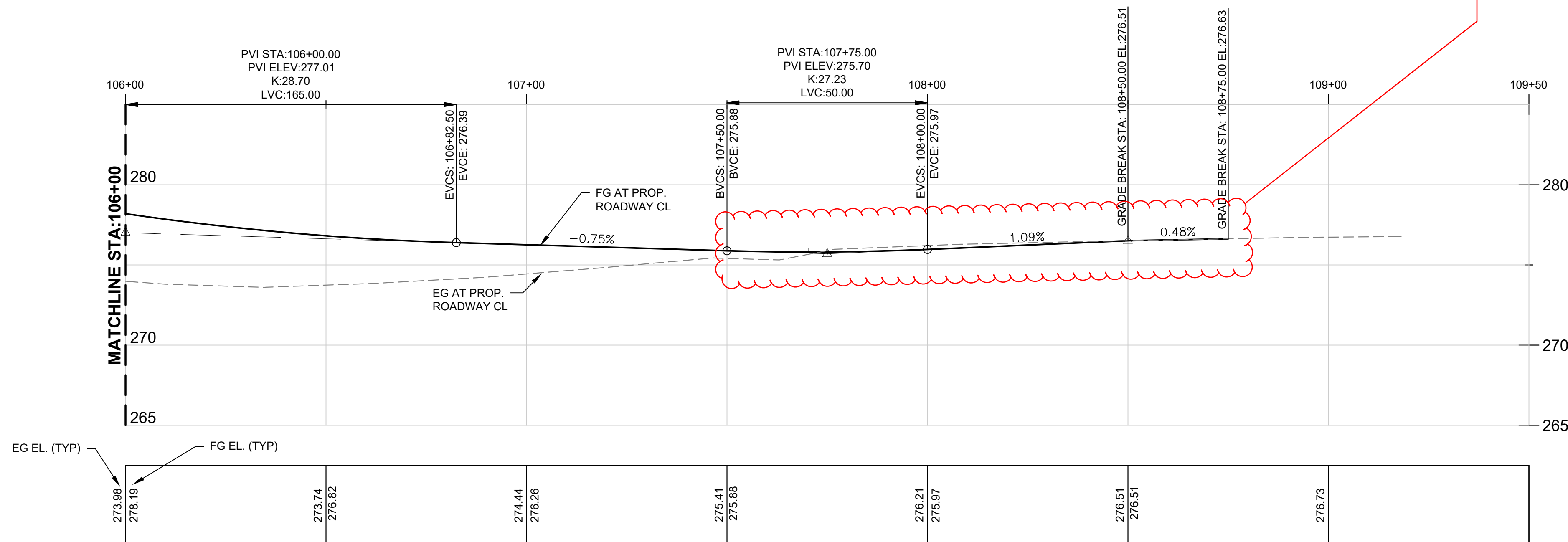
LEGEND:

- GRAVEL SHOULDER (SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS)
- CEMENT CONC. SIDEWALK
- HMA CL 1/2 IN. PG 58H-22
- HMA FOR APPROACH CL 1/2 IN. PG 58H-22
- GUARDRAIL
- PEDESTRIAN RAILING
- FILL
- CUT

GENERAL NOTES:

- 1. SEE DRAINAGE SHEETS FOR ALL STORM DRAIN IMPROVEMENTS

OA - Given the miniscule change of grading in this stretch, is it necessary to include all of this portion in the design? Could be a cost savings



NOT FOR CONSTRUCTION

Plot Date: 3/8/2026 10:52 AM
Save Date: 3/8/2026 3:04 PM
By: Malahia Heck
File: X:\lake Stevens\City Of\Projects\2024\0256 - Lake Stevens Catherine Creek Bridge Replacement\CADD\02 - Plan Sheets\2024\0256-RP.dwg

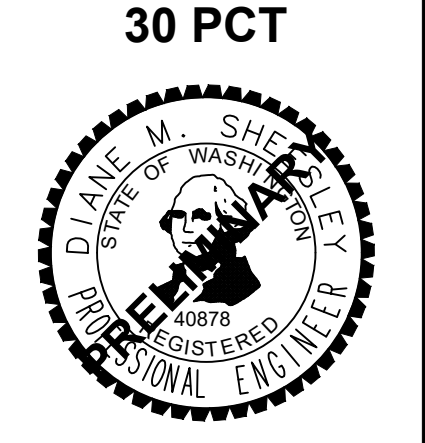
PERTEET
801 2ND AVENUE, SUITE 302
SEATTLE, WA 98104
206.436.0951 | 800.615.9900

CITY OF LAKE STEVENS
ROADWAY PLAN AND PROFILE

CATHERINE CREEK BRIDGE REPLACEMENT

LAKE STEVENS WA

REVIEWED BY: REVIEW BY	DATE: DATE
NO. DATE REVISION	BY: CK



30 PCT

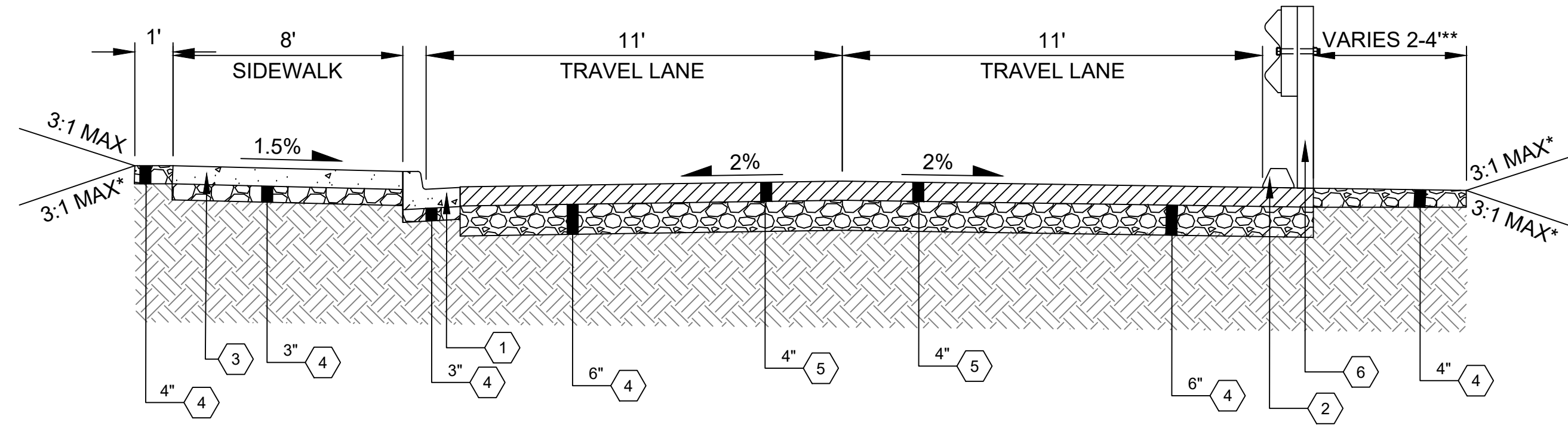
CHECKED BY: DMS
DESIGNED BY: KVV
DRAWN BY: MJH

FIRST SUBMITTAL DATE: 03/11/26

PROJECT NO.
LAST00002083

SHEET NO. **X** OF **X**
RP2

NW 1/4 SEC 5, TW 29 N, R 6 E, W.M.



TYPICAL SECTION

N.T.S.

STA 103+00 TO STA 105+02.74

STA 106+84.12 TO STA 105+50

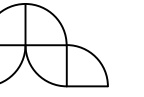
*RETAINING WALL WHERE SHOWN ON THE PLANS, SEE STRUCTURAL SHEETS FOR DETAILS

**SEE WSDOT STANDARD PLAN C-25.30-01, C-20.10-09, AND C-22.45-07 FOR GUARDRAIL GRADING DETAILS

CONSTRUCTION NOTES:

- 1 CEMENT CONC. CURB AND GUTTER PER CITY OF LAKE STEVENS STD 6-220
- 2 EXTRUDED CURB - CEMENT PER CITY OF LAKE STEVENS STD 6-220
- 3 CEMENT CONC. SIDEWALK PER WSDOT STD F.30.10-04
- 4 CRUSHED SURFACING BASE COURSE
- 5 HMA CL 1/2 IN. PG 58H-22
- 6 GUARDRAIL WHERE SHOWN ON THE PLANS

PERTEET
801 2ND AVENUE, SUITE 302
SEATTLE, WA 98104
206.436.0515 | 800.615.9900



CATHERINE CREEK BRIDGE REPLACEMENT

CITY OF LAKE STEVENS
ROADWAY TYPICAL SECTIONS

WA

LAKE STEVENS

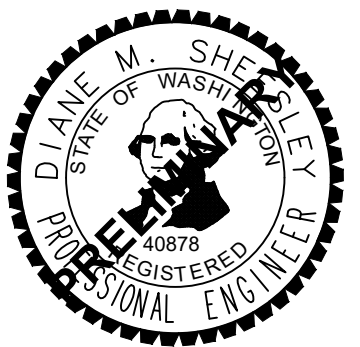
DATE: DATE

BY: CK

REVIEWED BY: REVIEW BY

NO. DATE REVISION

30 PCT



CHECKED BY: DMS
DESIGNED BY: KVV
DRAWN BY: MJH

FIRST SUBMITTAL DATE: 03/11/26

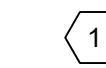
PROJECT NO.

LAST0002083

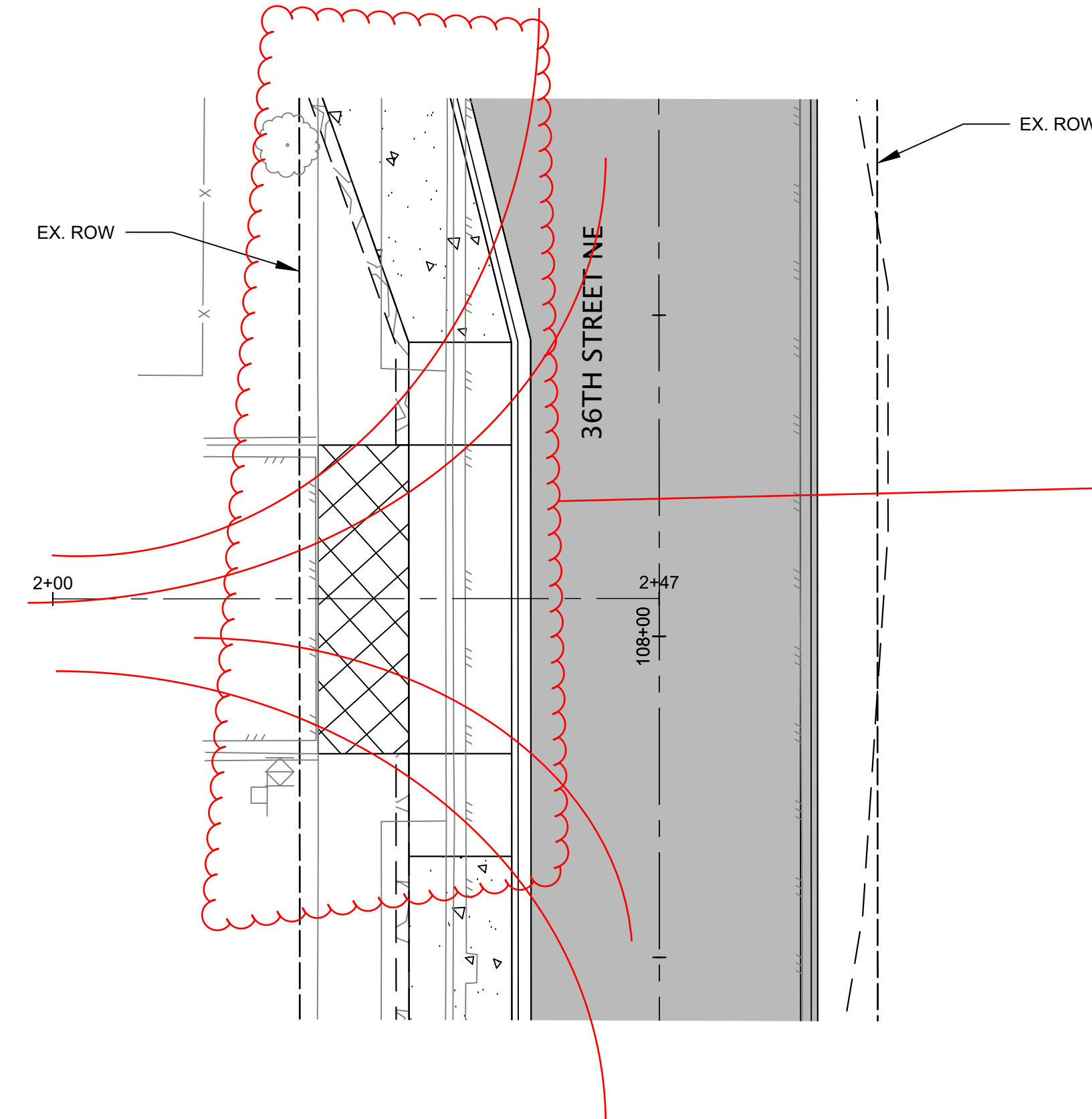
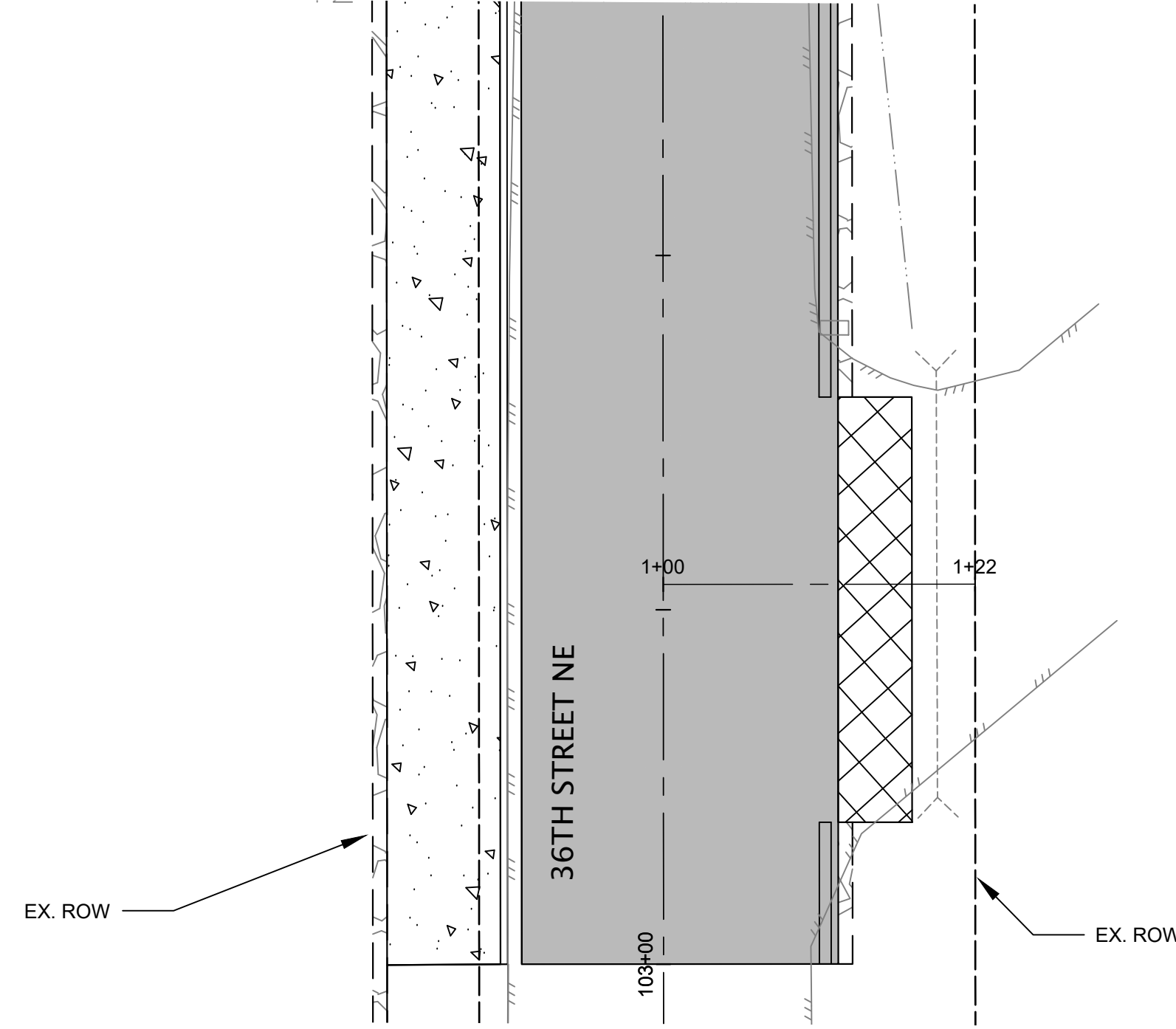
SHEET NO. ---- OF X

RS2

NOT FOR CONSTRUCTION



ADDITIONAL INFORMATION WILL BE PROVIDED AT 60% IF NEEDED

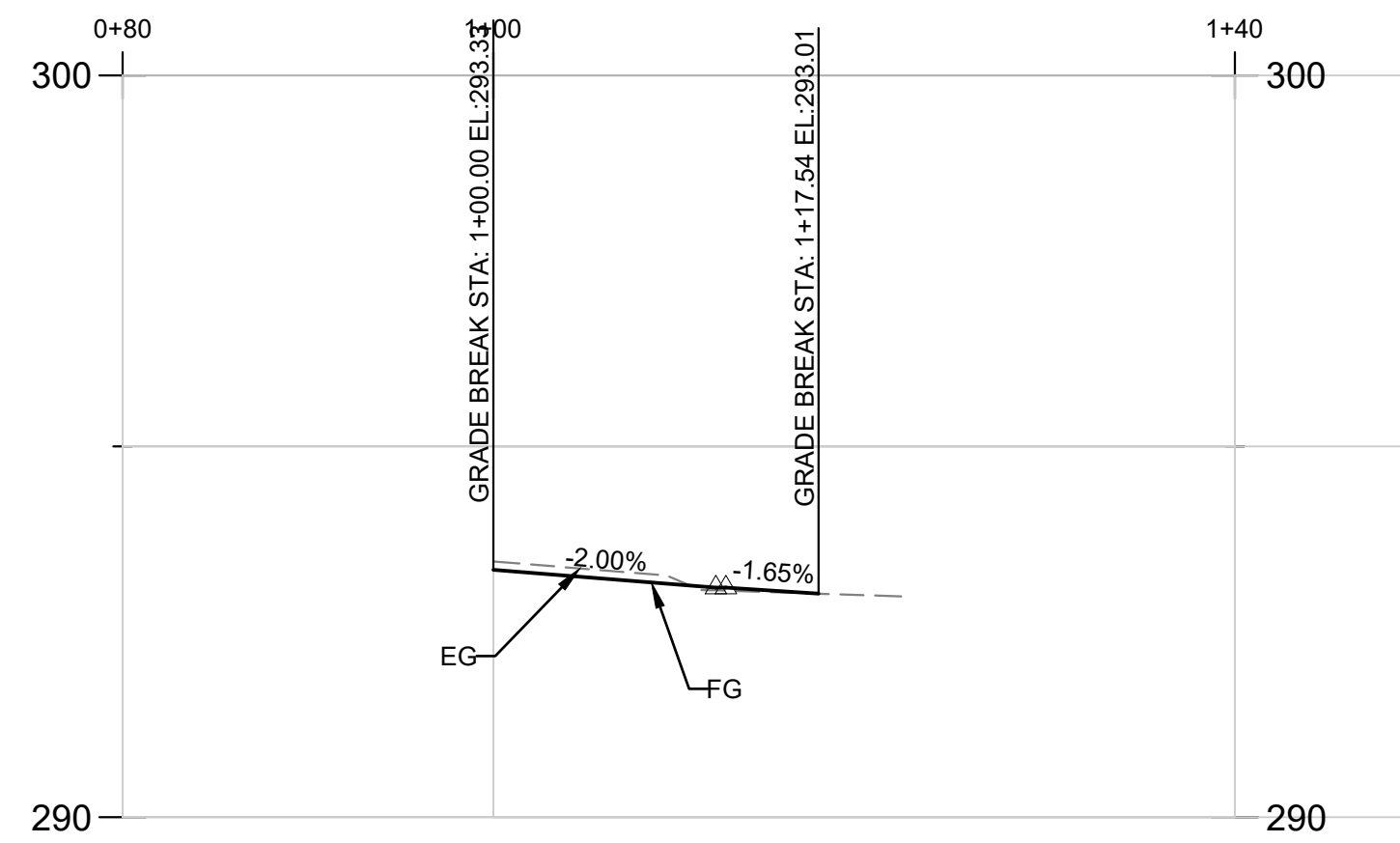


LEGEND:

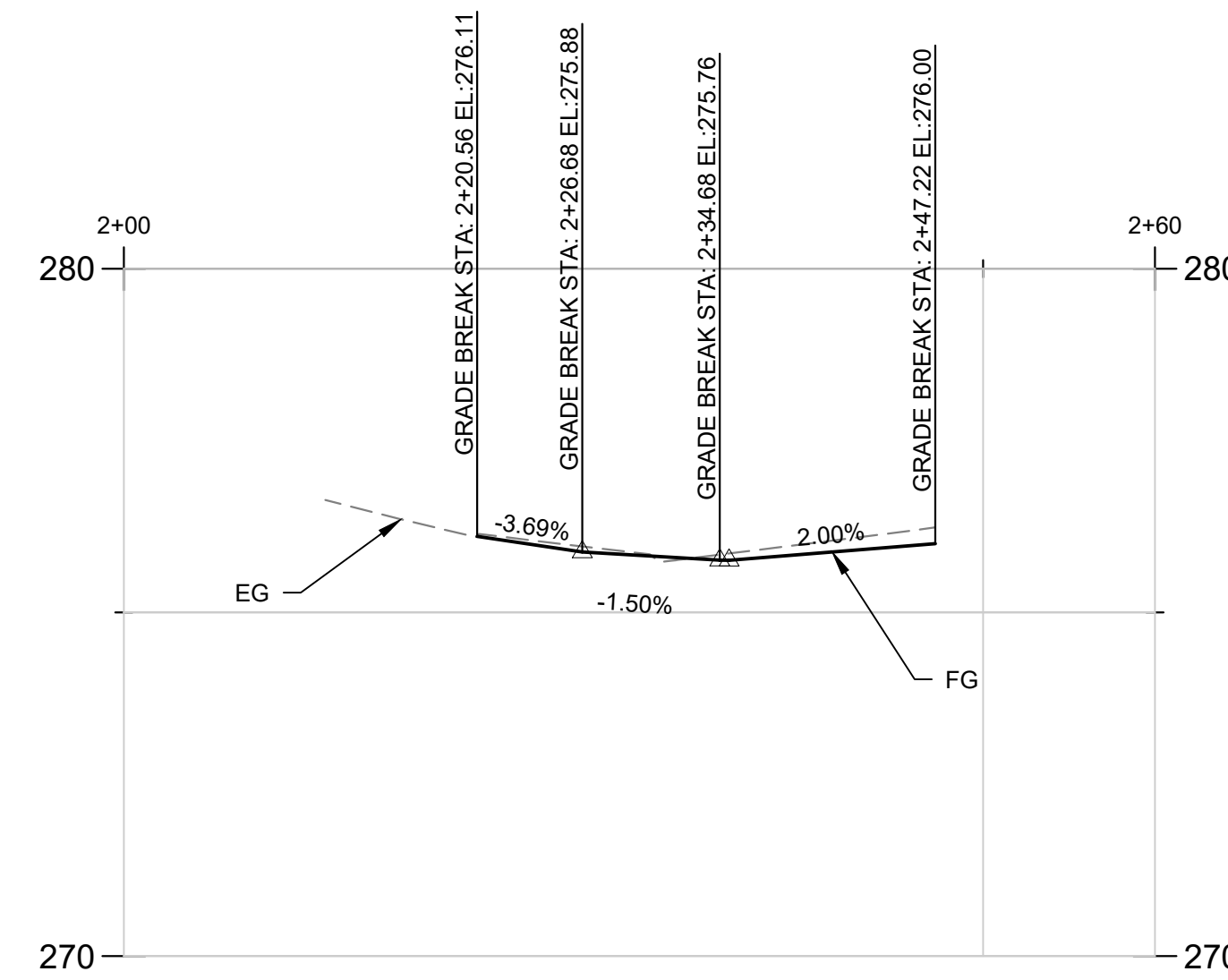
- CEMENT CONC. SIDEWALK
- HMA CL 1/2 IN. PG 58H-22
- HMA FOR APPROACH CL 1/2 IN. PG 58H-22

GENERAL NOTES:

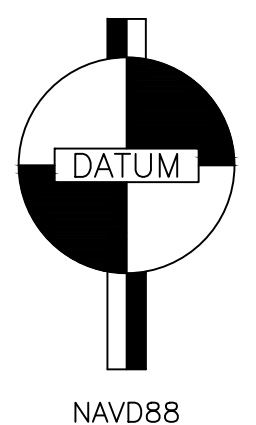
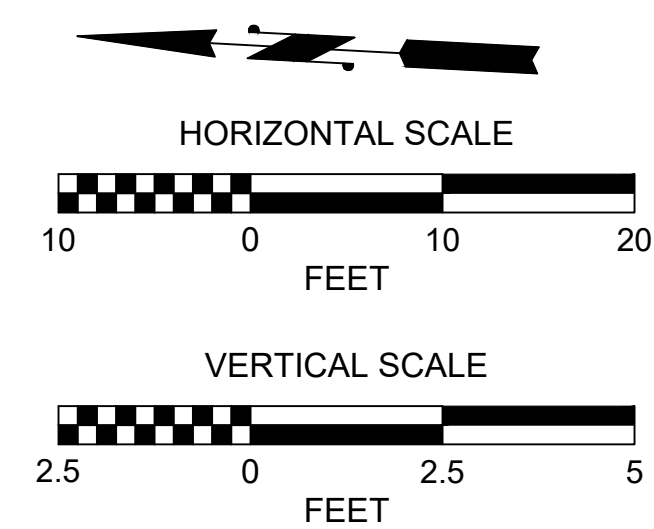
1. POINT TABLE WITH GRADING INFORMATION WILL BE ADDED AT 60% SUBMITTAL
2. DRIVEWAY PAVEMENT SECTION WILL BE ADDED AT 60% SUBMITTAL



DRIVEWAY #1

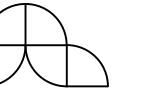


DRIVEWAY #2



NAVD88

NOT FOR CONSTRUCTION



REVIEWED BY: REVIEW BY: DATE: DATE: BY: CK

30 PCT



CHECKED BY: DMS
DESIGNED BY: KVV
DRAWN BY: MJH

FIRST SUBMITTAL DATE: 03/11/26

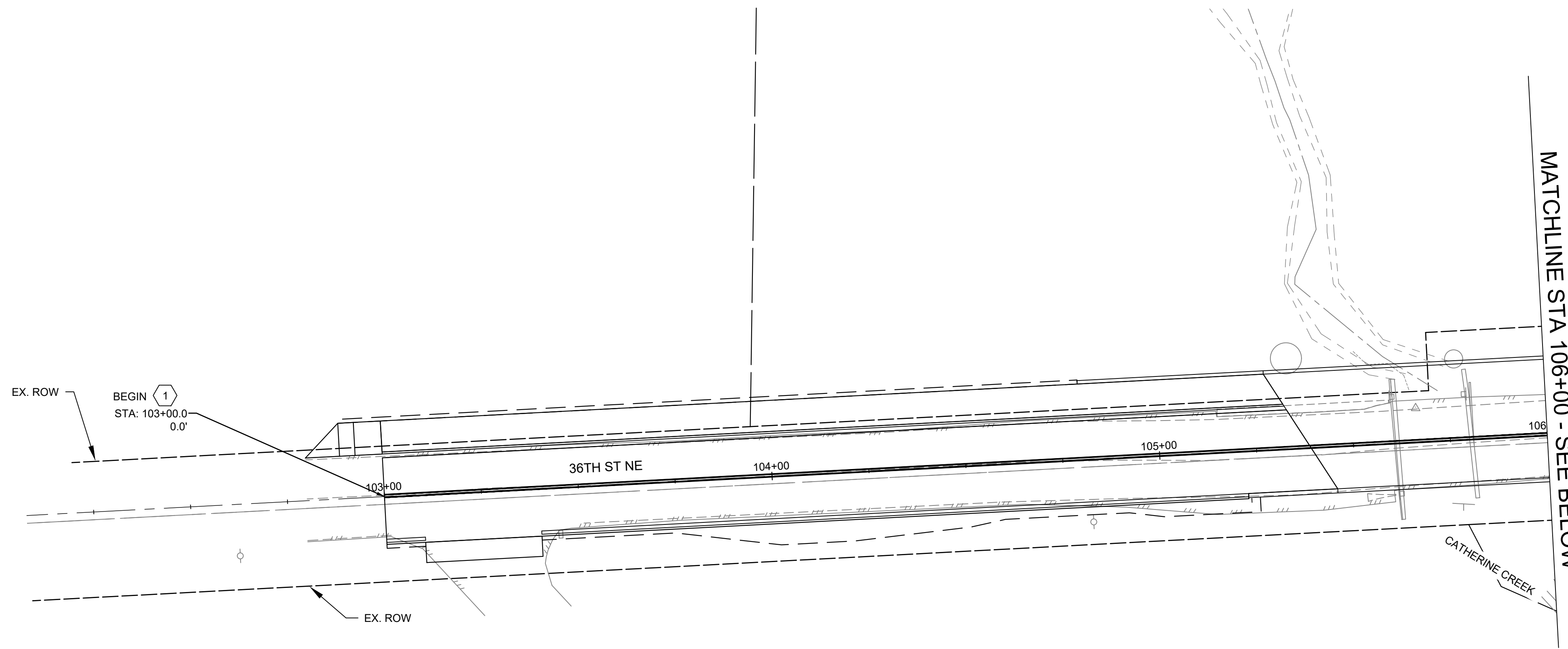
PROJECT NO.
LAST00002083

SHEET NO. ---- OF X

DW1

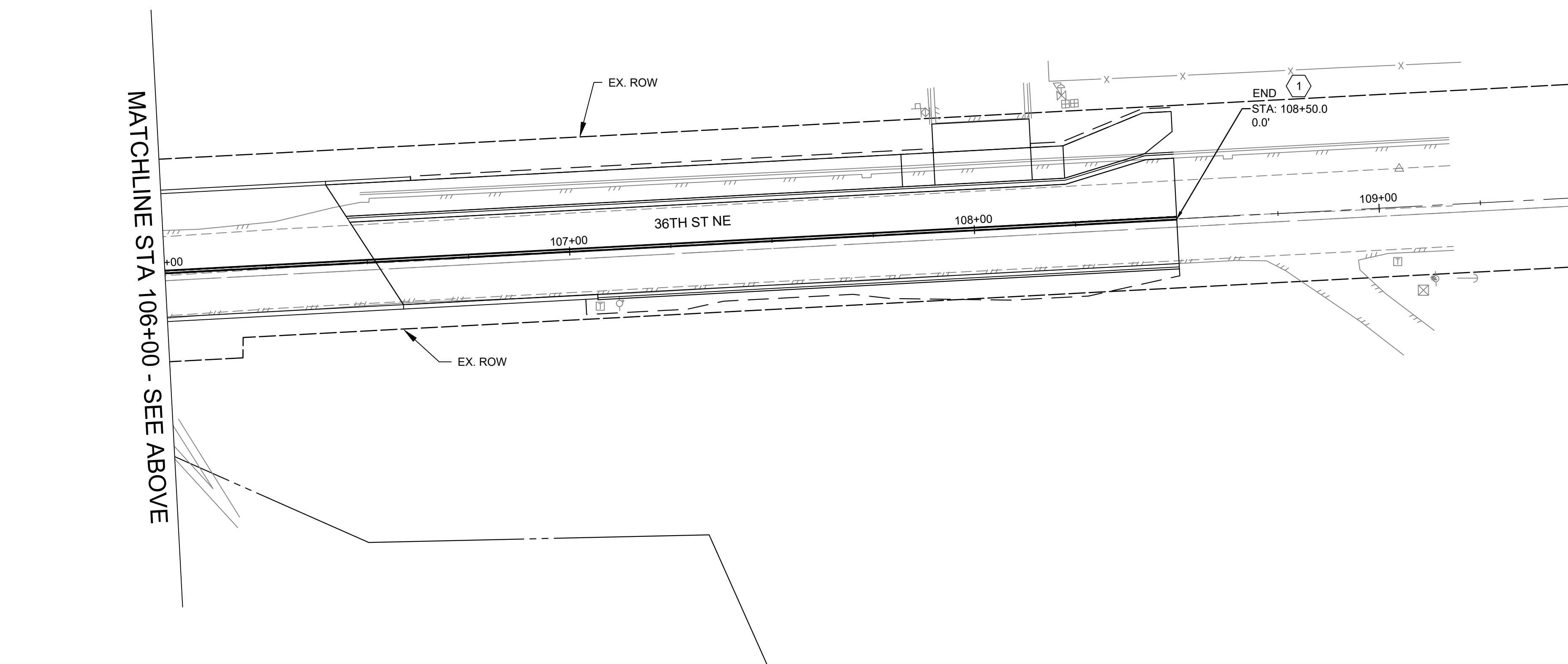
CONSTRUCTION NOTES:

1 PAINT LINE - YELLOW DOUBLE CENTERLINE PER CITY OF LAKE STEVENS
STD DWG 6-452



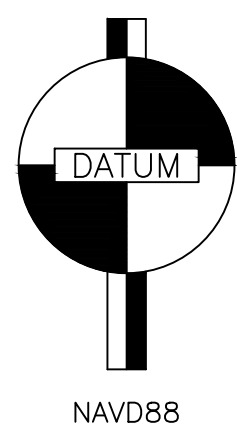
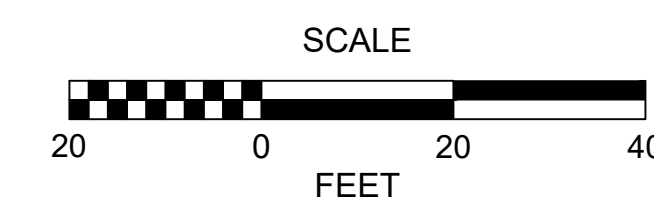
LEGEND:

ADDITIONAL INFORMATION WILL BE PROVIDED AT 60% IF NEEDED



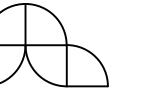
GENERAL NOTES:

1. ADDITIONAL INFORMATION WILL BE PROVIDED AT 60% IF NEEDED



NOT FOR CONSTRUCTION

PERTEET
801 2ND AVENUE, SUITE 302
SEATTLE, WA 98104
206.436.0915 | 800.615.9900



WA

CATHERINE CREEK BRIDGE REPLACEMENT

CITY OF LAKE STEVENS
CHANNELIZATION PLAN

LAKE STEVENS

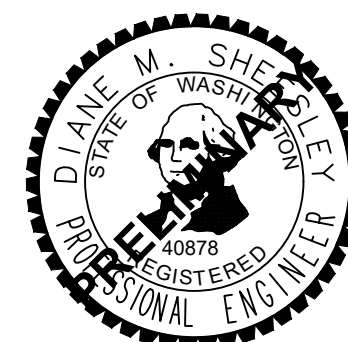
DATE: DATE

BY: CK

REVIEWED BY: REVIEW BY

NO. DATE REVISION

30 PCT



CHECKED BY: DMS
DESIGNED BY: KVV
DRAWN BY: MJH

FIRST SUBMITTAL DATE: 03/11/26

PROJECT NO.
LAST0002083

SHEET NO. ---- OF X

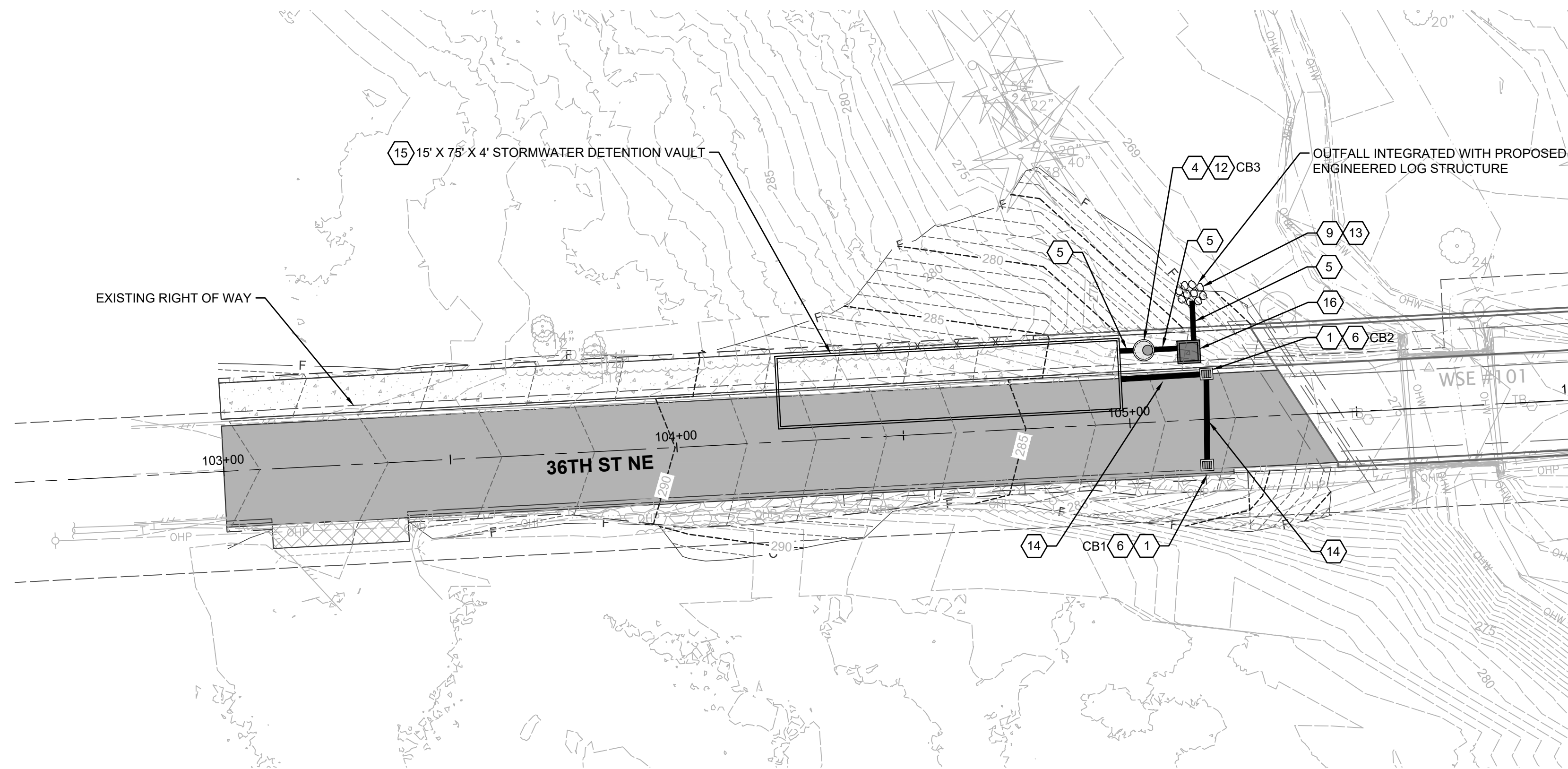
CH1

GENERAL SHEET NOTES

1. CONTRACTOR SHALL INSTALL CATCH BASIN INLET PROTECTION WITHIN 25-FEET DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY.
2. STATION & OFFSET FOR DRAINAGE STRUCTURES ARE TO CENTER OF STRUCTURES. CONTRACTOR TO ADJUST STRUCTURES TO FINAL GRADE.
3. DIMENSIONS PROVIDED ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
4. CONTRACTOR TO VERIFY UTILITY CROSSINGS PRIOR TO CONSTRUCTION.

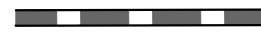





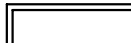
STORM DRAIN NOTES

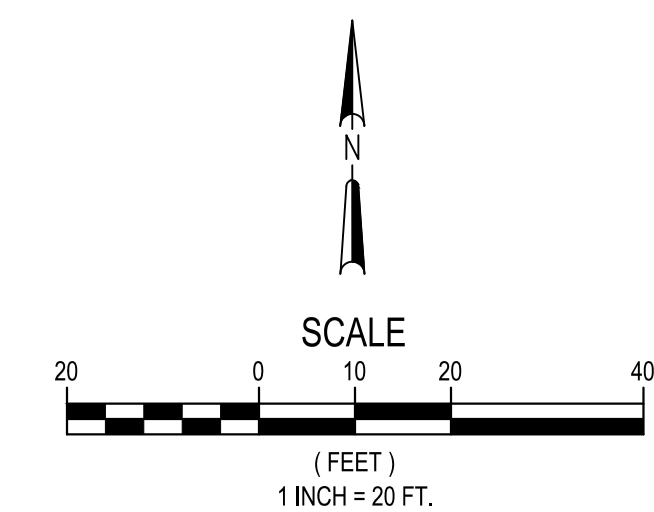
1. INSTALL CB TYPE 1 PER LAKE STEVENS STD PLAN 5-050.
2. INSTALL CB TYPE 1 WITH THRU CURB INLET PER LAKE STEVENS STD PLAN 5-150.
3. INSTALL CB TYPE 2 48" PER LAKE STEVENS STD PLAN 5-070.
4. INSTALL CB TYPE 2 54" WITH FLOW RESTRICTOR PER LAKE STEVENS STD PLAN 5-010.
5. INSTALL HDPE 12-INCH DIAM. PIPE PER WSDOT STD. PLAN 9-05.23.
6. INSTALL STANDARD FRAME AND VANED GRATE PER LAKE STEVEN STD PLANS 5-130 AND 5-190.
7. ADJUST CATCH BASIN.
8. CONNECT PROPOSED PIPE TO EXISTING DRAINAGE STRUCTURE.
9. OUTFALL PROTECTION PER DETAIL TO BE PROVIDED.
10. REMOVE DRAINAGE PIPE.
11. REMOVE DRAINAGE STRUCTURE.
12. LOCKING MANHOLE FRAME AND COVER PER LAKE STEVENS STD PLANS 5-160 AND 5-170.
13. BEVELED END PIPE SECTION PER LAKE STEVENS STD PLAN 5-290.
14. INSTALL DUCTILE IRON 12-INCH DIAM. PIPE PER WSDOT STD. PLAN 9-05.23.
15. INSTALL DETENTION VAULT PER DIMENSIONS IN PLANS. DETAILS TO BE PROVIDED IN FUTURE SUBMITTAL.
16. INSTALL WATER QUALITY VAULT. DETAILS TO BE PROVIDED IN FUTURE SUBMITTAL.



MATCHLINE, STA. 16+00, SEE DWG. NO. SD02

LEGEND

-  PROPOSED STORM PIPE
-  CATCHBASIN TYPE 1
-  CATCHBASIN TYPE 2
-  WATER QUALITY VAULT
-  OUTFALL PROTECTION
-  DRAINAGE REMOVAL
-  DETENTION VAULT




**DAVID EVANS
AND ASSOCIATES INC.**
14432 SE Eastgate Way
Suite 400
Bellevue, WA 98007
425.519.6500

**CATHERINE CREEK BRIDGE REPLACEMENT
30% SUBMITTAL**
 CITY OF LAKE STEVENS
SD01 - STORMWATER PLAN 1 OF 2
 LAKE STEVENS WA

NO.	DATE	REVISION	REVIEW BY	DATE	BY

PRELIMINARY



CHECKED BY: CHECKED BY
DESIGNED BY: DESIGNED BY
DRAWN BY: DRAFTED BY

FIRST SUBMITTAL DATE: 3/02/26

PROJECT NO.
LAST0002083

SHEET NO.
SD01

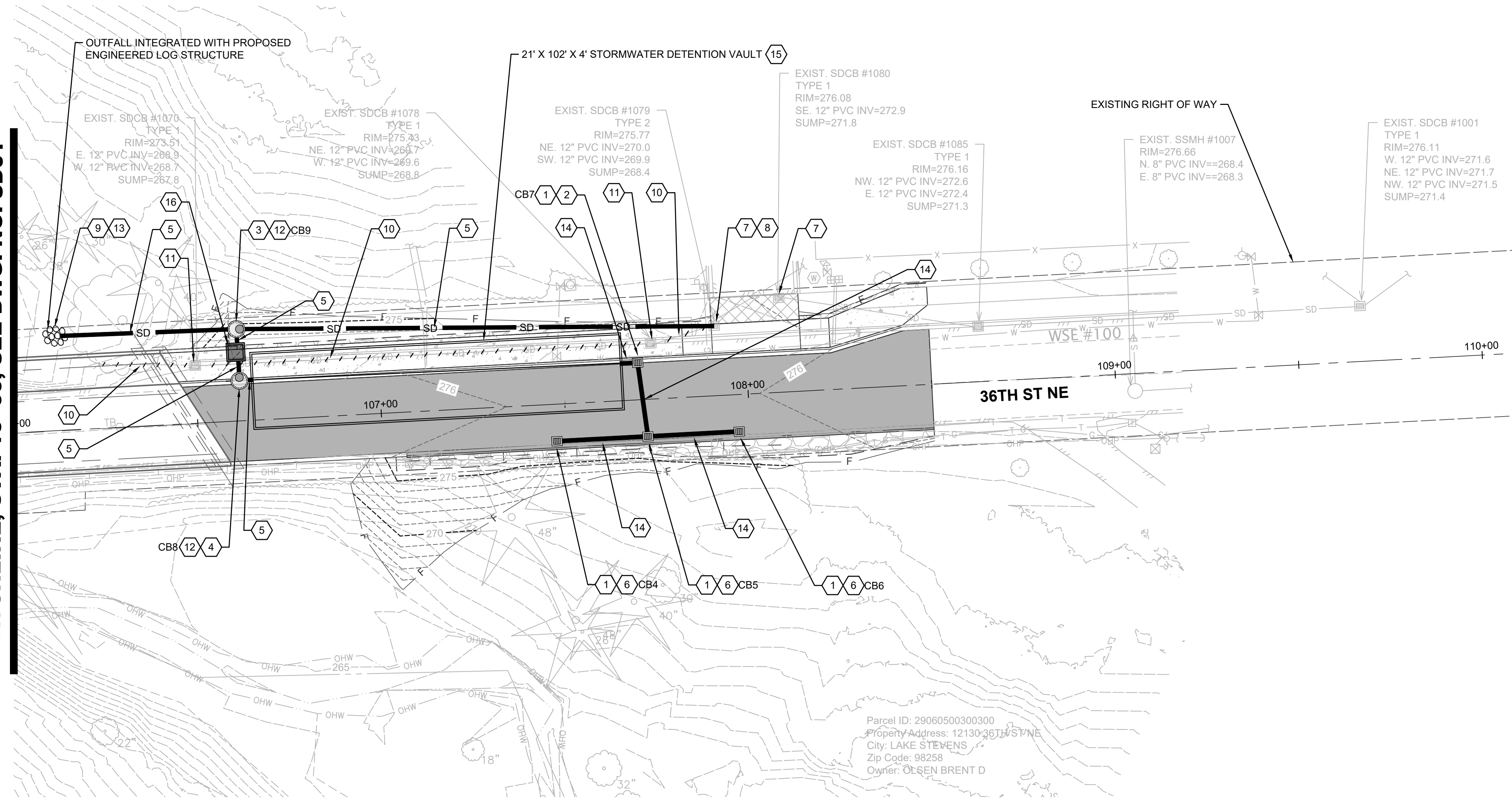
GENERAL SHEET NOTES

1. CONTRACTOR SHALL INSTALL CATCH BASIN INLET PROTECTION WITHIN 25-FEET DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY.
2. STATION & OFFSET FOR DRAINAGE STRUCTURES ARE TO CENTER OF STRUCTURES. CONTRACTOR TO ADJUST STRUCTURES TO FINAL GRADE.
3. DIMENSIONS PROVIDED ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
4. CONTRACTOR TO VERIFY UTILITY CROSSINGS PRIOR TO CONSTRUCTION.

STORM DRAIN NOTES

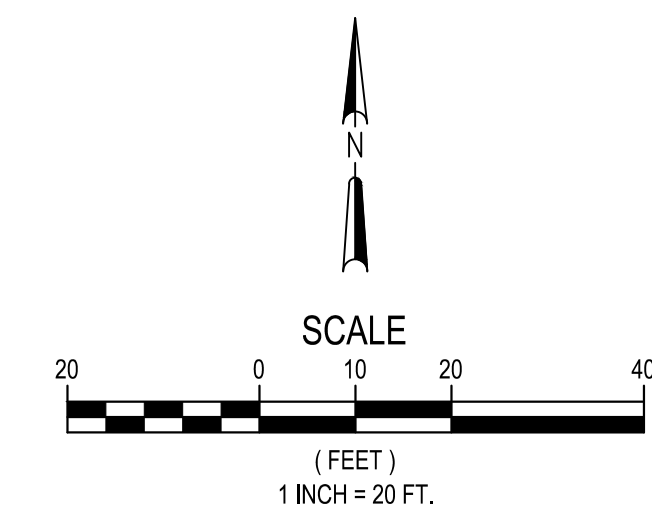
1. INSTALL CB TYPE 1 PER LAKE STEVENS STD PLAN 5-050.
2. INSTALL CB TYPE 1 WITH THRU CURB INLET PER LAKE STEVENS STD PLAN 5-150.
3. INSTALL CB TYPE 2 48" PER LAKE STEVENS STD PLAN 5-070.
4. INSTALL CB TYPE 2 54" WITH FLOW RESTRICTOR PER LAKE STEVENS STD PLAN 5-010.
5. INSTALL HDPE 12-INCH DIAM. PIPE PER WSDOT STD. PLAN 9-05.23.
6. INSTALL STANDARD FRAME AND VANED GRATE PER LAKE STEVEN STD PLANS 5-130 AND 5-190.
7. ADJUST CATCH BASIN.
8. CONNECT PROPOSED PIPE TO EXISTING DRAINAGE STRUCTURE.
9. OUTFALL PROTECTION PER DETAIL TO BE PROVIDED.
10. REMOVE DRAINAGE PIPE.
11. REMOVE DRAINAGE STRUCTURE.
12. LOCKING MANHOLE FRAME AND COVER PER LAKE STEVENS STD PLANS 5-160 AND 5-170.
13. BEVELED END PIPE SECTION PER LAKE STEVENS STD PLAN 5-290.
14. INSTALL DUCTILE IRON 12-INCH DIAM. PIPE PER WSDOT STD. PLAN 9-05.23.
15. INSTALL DETENTION VAULT PER DIMENSIONS IN PLANS. DETAILS TO BE PROVIDED IN FUTURE SUBMITTAL.
16. INSTALL WATER QUALITY VAULT. DETAILS TO BE PROVIDED IN FUTURE SUBMITTAL.

MATCHLINE, STA. 16+00, SEE DWG. NO. SD01



LEGEND

- PROPOSED STORM PIPE
- CATCHBASIN TYPE 1
- CATCHBASIN TYPE 2
- WATER QUALITY VAULT
- OUTFALL PROTECTION
- DRAINAGE REMOVAL
- DETENTION VAULT



Plot Date: 3/11/2026 1:55 AM
By: Andrew Lang
Save Date: 3/11/2026 8:45 AM
File: P:\L\LAST0002083\04\CAD\DRH\SHHEETS\IT-SD-LAST2083.dwg

DAVID EVANS AND ASSOCIATES INC.
14432 SE Eastgate Way
Suite 400
Bellevue, WA 98007
425.519.6500

CATHERINE CREEK BRIDGE REPLACEMENT
30% SUBMITTAL
CITY OF LAKE STEVENS
SD02 - STORMWATER PLAN 2 OF 2
LAKE STEVENS
WA

NO.	DATE	REVISION	BY	CHK

PRELIMINARY



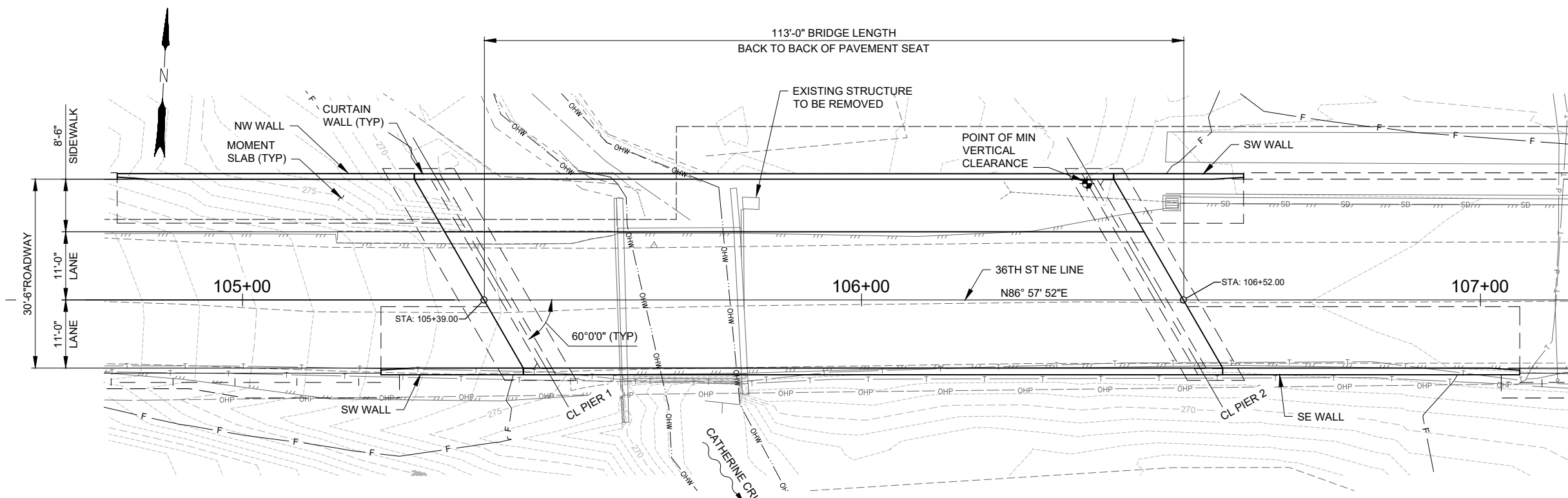
CHECKED BY: CHECKED BY
DESIGNED BY: DESIGNED BY
DRAWN BY: J. CULPEPPER

FIRST SUBMITTAL DATE: 3/02/26

PROJECT NO.
LAST0002083

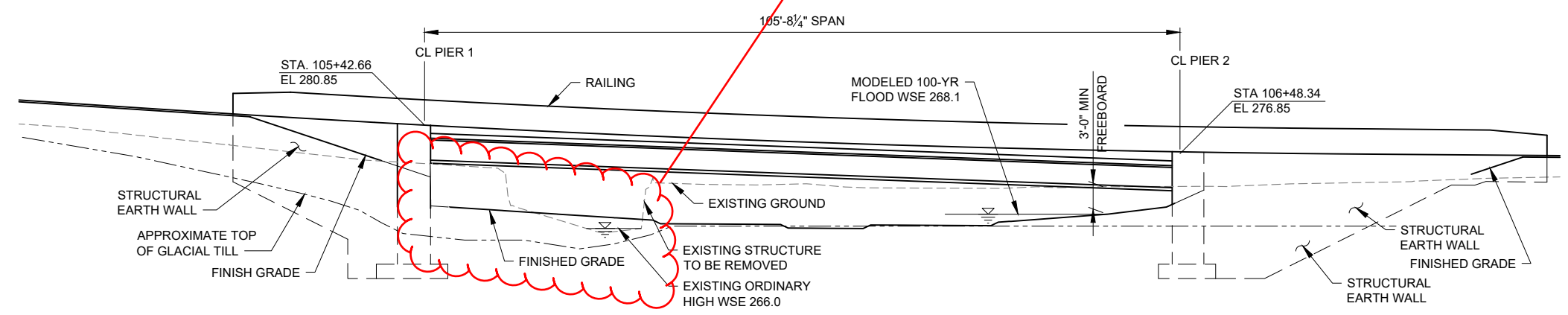
SHEET NO.
SD02

SEC XX, T.XX N., R. XX W., W.M.



BRIDGE PLAN

OA - Topo on the grading plan appears to need to reflect this change but did not seem to account for it.



REFERENCE LINE EL 250.0

DATUM:
NAVD 88

BRIDGE ELEVATION

STATIONS AND ELEVATIONS ARE SHOWN ON 36TH ST NE LINE. ELEVATIONS SHOWN ARE FINISHED GRADE AT TOP OF BRIDGE DECK AND ARE EQUAL TO PROFILE GRADE.

CATHERINE CREEK BRIDGE REPLACEMENT
30% SUBMITTAL

CITY OF LAKE STEVENS
PLAN AND ELEVATION

WA
LAKE STEVENS

NO.	DATE	REVISION	REVIEW BY	DATE	BY

PRELIMINARY

CHECKED BY: CHECKED BY:
DESIGNED BY: DESIGNED BY:
DRAWN BY: J. CULPEPPER
FIRST SUBMITTAL DATE: 3/02/26
PROJECT NO.
LAST00002083
SHEET NO.

LOADING: HL-93

B01

Plot Date: 3/11/2026 1:33 PM
Save Date: 3/9/2026 8:42 PM
By: Dustin Altenburg
File: P:\Last00002083\0400CAD\BISH\HEETS\EB01-LAST2083-PE01.dwg

GENERAL NOTES

- WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2026.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 10TH EDITION 2024. DEAD LOAD INCLUDES ADDITIONAL FUTURE WEARING SURFACE OF 35 POUNDS PER SQUARE FOOT. THE BRIDGE TRAFFIC BARRIERS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS FOR TEST LEVEL 4 (TL-4) BARRIERS.
- THE SEISMIC DESIGN OF THIS STRUCTURE HAS BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 3RD EDITION 2023, USING THE SEISMIC DESIGN INFORMATION FROM THE GEOTECHNICAL REPORT "GEOTECHNICAL ENGINEERING REPORT, CATHERINE CREEK BRIDGE REPLACEMENT, 36TH STREET NE CROSSING, CITY OF LAKE STEVENS". SEE TABLE "SEISMIC DESIGN PARAMETERS" FOR A SUMMARY OF THE SEISMIC DESIGN VALUES.
- THE CONCRETE IN BRIDGE DECKS SHALL BE CLASS 4000D. THE CONCRETE IN BRIDGE APPROACH SLABS SHALL BE CLASS 4000A. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
- REINFORCING BARS SHALL CONFORM TO ASTM A706 GRADE 60 UNLESS OTHERWISE NOTED.
- THE BACKFILL BEHIND THE ABUTMENTS MAY BE PLACED PRIOR TO PLACEMENT OF THE SUPERSTRUCTURE.
- UNLESS OTHERWISE SHOWN IN THE PLANS, CONCRETE COVER MEASURED FROM THE FACE OF CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 2½" AT THE TOP OF THE BRIDGE DECK, 1" AT THE BOTTOM OF THE BRIDGE DECK, 3" AT THE BOTTOM OF FOOTING, AND 2" AT ALL OTHER LOCATIONS.
- ALL VISIBLE OR EXPOSED CONCRETE CORNERS/EDGES SHALL RECEIVE A ¼ INCH CHAMFER UNLESS OTHERWISE SHOWN OR NOTED.
- FALSEWORK SHALL BE CAREFULLY RELEASED TO PREVENT IMPACT OR UNDUE STRESS IN THE STRUCTURE.
- CONDUITS, JUNCTION BOXES, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL COORDINATE THESE PLANS WITH THE ELECTRICAL, I.T.S. AND OTHER CIVIL PLANS.
- EXISTING FEATURES AND DIMENSIONS ARE BASED ON INSPECTION REPORTS AND AS-BUILT PLANS. ALL DIMENSIONS NOTED WITH AN ASTERISK (*) SHALL BE FIELD MEASURED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS AND PROCEEDING WITH CONSTRUCTION.
- THE CONCRETE SEALS AT PIERS == AND == ARE DESIGNED FOR A SEAL VENT ELEVATION OF ==. AFTER THE SEALS ARE PLACED, COFFERDAMS SHALL NOT BE DEWATERED WHEN THE WATER SURFACE IS ABOVE THE DESIGN ELEVATION. PROVISIONS SHALL BE MADE TO FLOOD THE COFFERDAM IN THE EVENT THAT THE WATER SURFACE RISES ABOVE THE DESIGN ELEVATION. IF, IN THE OPINION OF THE ENGINEER, WATER CONDITIONS AT THE TIME OF CONSTRUCTION DO NOT REQUIRE SEALS FOR FOOTING (SHAFT CAP) CONSTRUCTION, THE ENGINEER MAY DELETE THE SEALS, AND EXCAVATION SHALL PROCEED ONLY TO THE BOTTOM OF THE FOOTING (SHAFT CAP).
- NOMINAL BEARING RESISTANCE OF SPREAD FOOTING SHALL BE TAKEN AS FOLLOWS:

PIER NO	SERVICE LIMIT STATE	STRENGTH AND EXTREME EVENTS STATE
1	XXXXX KSF	XXXXX KSF
2	XXXXX KSF	XXXXX KSF

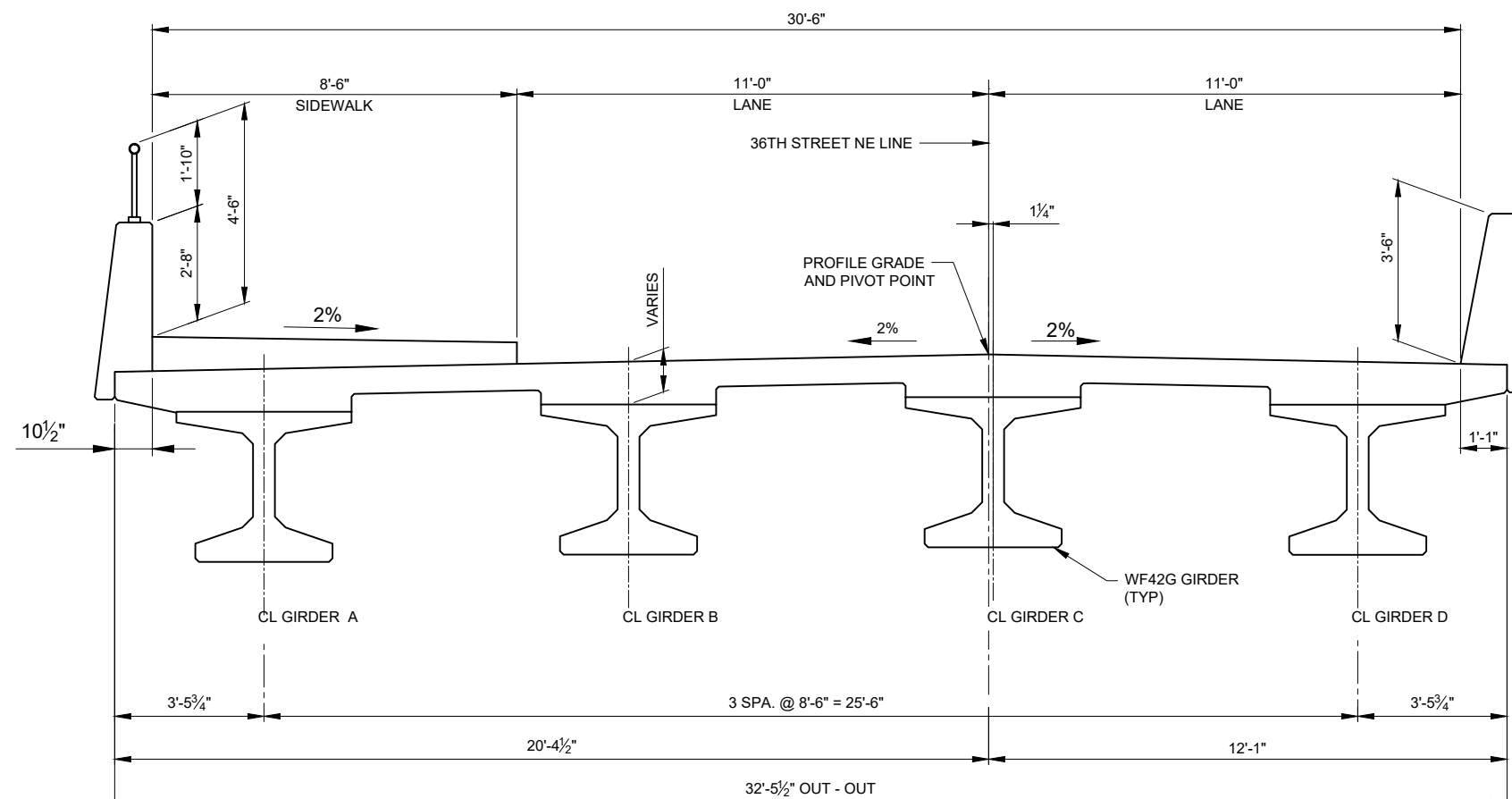
SEISMIC DESIGN PARAMETERS

PARAMETER DESCRIPTION	SEE
SITE CLASS	C
SITE FACTORED PEAK GROUND ACCELERATION COEFFICIENT (A _S)	0.363 g
EQUIVALENT EARTHQUAKE RESPONSE SPECTRAL ACCELERATION COEFFICIENT AT SHORT PERIODS (SDS)	0.845 g
EQUIVALENT EARTHQUAKE RESPONSE SPECTRAL ACCELERATION COEFFICIENT AT 1-SECOND PERIOD (SDC)	0.403 g
SEISMIC DESIGN CATEGORY(SDC) BASED ON (SDS)	C

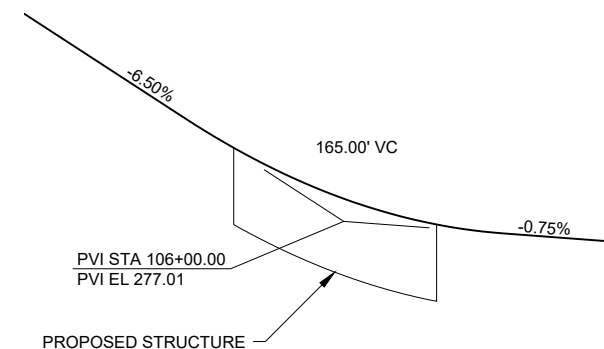
SEE-SAFETY EVALUATION EARTHQUAKE
g-GRAVITATIONAL CONSTANT



CATHERINE CREEK BRIDGE REPLACEMENT
 30% SUBMITTAL
 CITY OF LAKE STEVENS
GENERAL NOTES, BRIDGE SECTION AND PROFILE
 WA
 LAKE STEVENS



TYPICAL SECTION



GRADELINE DIAGRAM

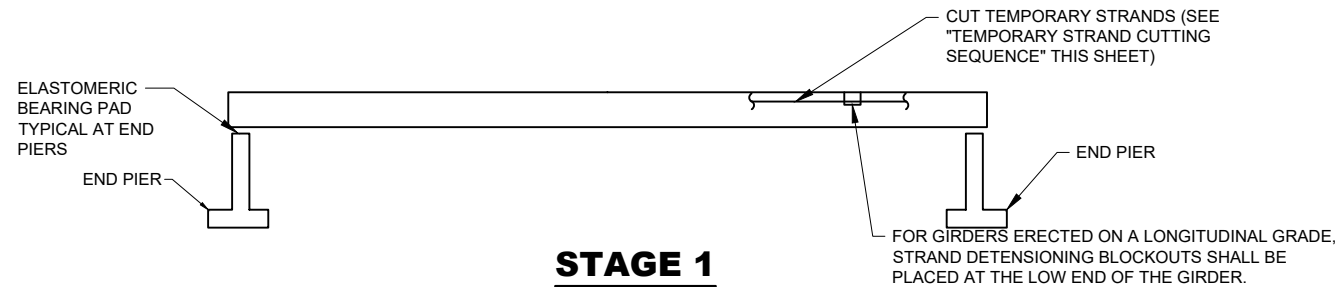
Plot Date: 2/17/2026 2:46 PM
 Save Date: 2/17/2026 2:46 PM
 By: Dustin Altenburg
 File: P:\Users\Dustin\OneDrive\Documents\Projects\2026\20260217\LAST00002083-TS01.dwg

REVIEWED BY	DATE	REVISION

PRELIMINARY

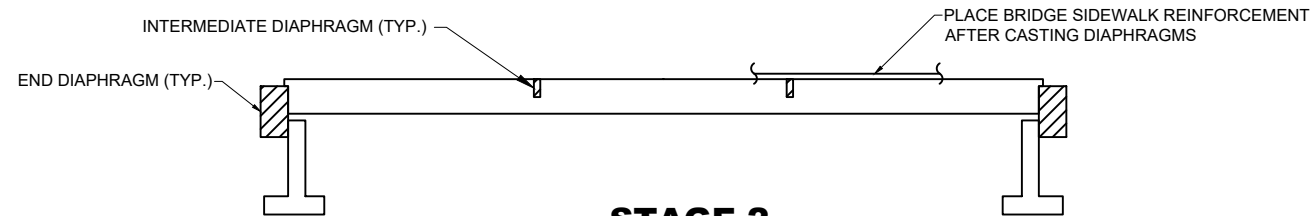
CHECKED BY: CHECKED BY
 DESIGNED BY: DESIGNED BY
 DRAWN BY: J. CULPEPPER
 FIRST SUBMITTAL DATE: 5/23/25
 PROJECT NO.
LAST00002083
 SHEET NO.

B02



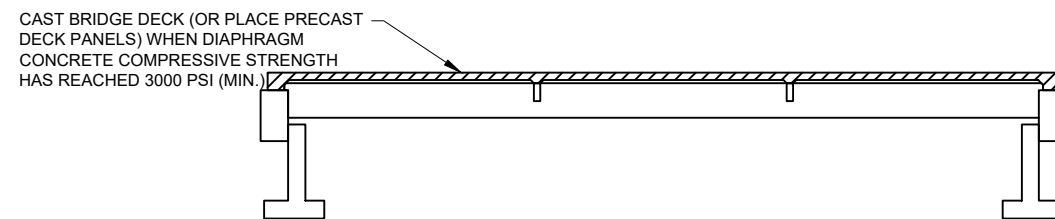
**STAGE 1
SET GIRDERS IN PLACE**

INSTALL TEMPORARY BRACING FOR ERECTION IN ACCORDANCE WITH STD. SPEC. SECTION 6-02.3(17)F4.

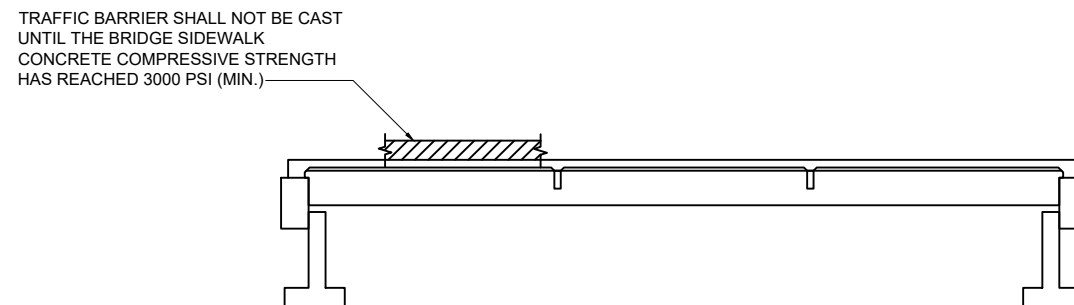


**STAGE 2
CAST DIAPHRAGMS AND
PLACE BRIDGE SIDEWALK REINFORCEMENT**

INSTALL TEMPORARY BRACING FOR DIAPHRAGM AND DECK PLACEMENT IN ACCORDANCE WITH STD. SPEC. SECTION 6-02.3(17)F5.



**STAGE 3
CAST BRIDGE SIDEWALK**



**STAGE 4
CAST TRAFFIC BARRIERS**

CONSTRUCTION SEQUENCE - SUPERSTRUCTURE

TEMPORARY STRAND CUTTING SEQUENCE

1. ERECT AND BRACE GIRDERS.
2. JUST PRIOR TO CUTTING THE TEMPORARY STRANDS, REMOVE EXPANDED POLYSTYRENE IN BLOCKOUTS IN TOP FLANGE OF GIRDERS. ONCE THE EXPANDED POLYSTYRENE HAS BEEN REMOVED FROM THE STRAND DETENSIONING BLOCKOUT, PREVENT MOISTURE FROM ENTERING THE BLOCKOUT UNTIL THE TEMPORARY TOP STRAND IS CUT AND THE BLOCKOUT FILLED WITH GROUT.
3. CUT STRANDS IN BLOCKOUTS. STRANDS MAY BE CUT BY USING A CUTTING TORCH AND MOVING FLAME BACK AND FORTH OVER THE LENGTH OF EXPOSED STRAND TO LET INDIVIDUAL WIRES BREAK ONE AT A TIME TO LESSEN THE SHOCK TO THE GIRDER. STRANDS SHALL BE RELEASED IN A SYMMETRICAL MANNER ABOUT THE GIRDER CENTERLINE STARTING WITH THOSE FURTHEST FROM THE CENTERLINE AND WORKING INWARDS. FOR POST-TENSIONED TEMPORARY TOP STRANDS, ACTIVELY RESTRAIN THE STRAND CHUCKS AT THE GIRDER ENDS DURING CUTTING.
4. WITHIN 24 HOURS OF CUTTING THE TEMPORARY STRANDS, FILL THE BLOCKOUTS WITH A GROUT CONFORMING TO STD. SPEC. 9-20.3(2). REMOVE ALL MOISTURE IN BLOCKOUTS PRIOR TO FILLING THEM WITH GROUT.

NO.	DATE	REVISION	REVIEWED BY	DATE	BY

PRELIMINARY

CHECKED BY: J. CULPEPPER
DESIGNED BY: J. CULPEPPER
DRAWN BY: J. CULPEPPER

FIRST SUBMITTAL DATE: 5/23/25

PROJECT NO.
LAST00002083

SHEET NO.
BR03



**DAVID EVANS
AND ASSOCIATES INC.**
14432 SE Eastgate Way
Suite 400
Bellevue, WA 98007
425.519.6500

WA

CATHERINE CREEK BRIDGE REPLACEMENT

30% SUBMITTAL

CITY OF LAKE STEVENS

FOOTING PLAN

LAKE STEVENS

REVIEWED BY: REVIEW BY: DATE: DATE BY: CK

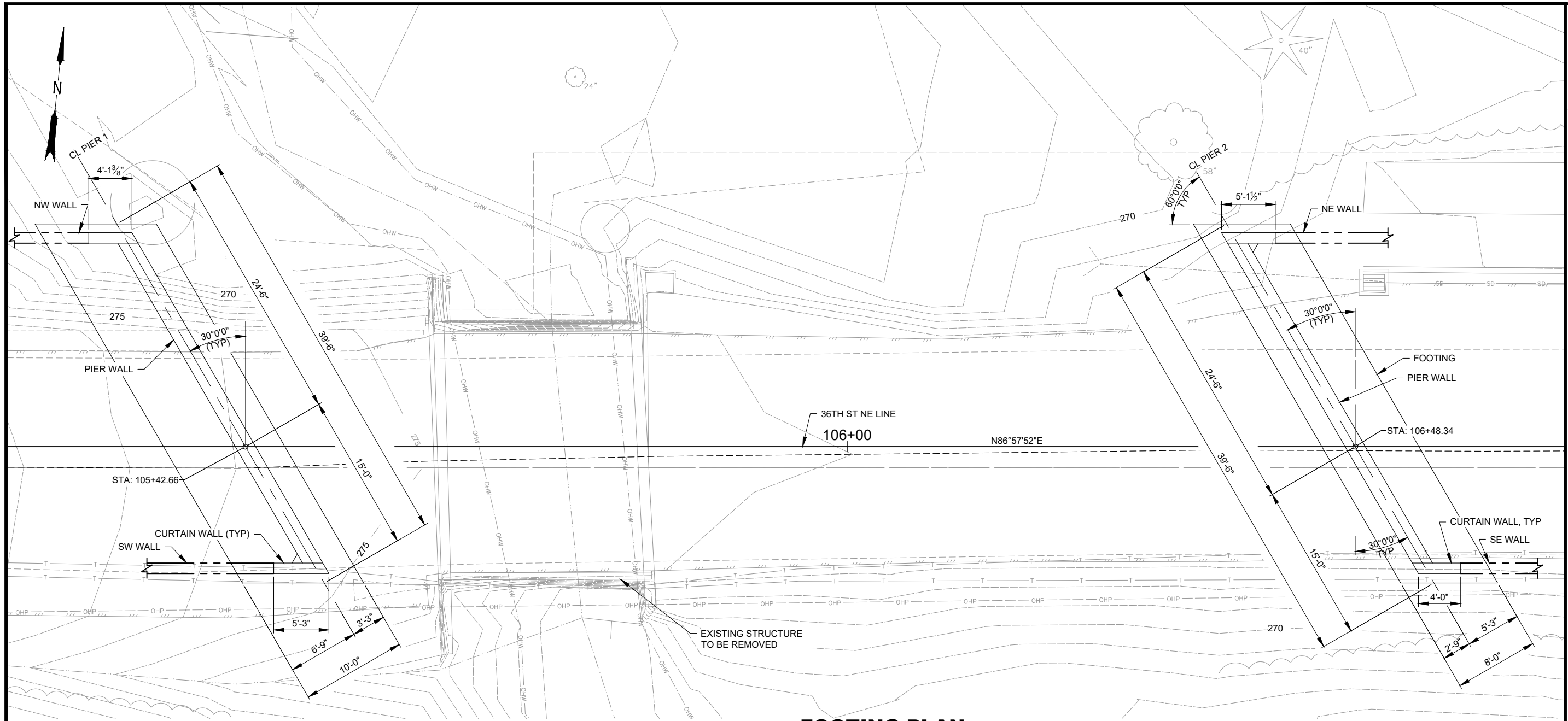
PRELIMINARY

CHECKED BY: CHECKED BY:
DESIGNED BY: DESIGNED BY:
DRAWN BY: J. CULPEPPER

FIRST SUBMITTAL DATE: 3/02/26

PROJECT NO.
LAST00002083

SHEET NO.
B05

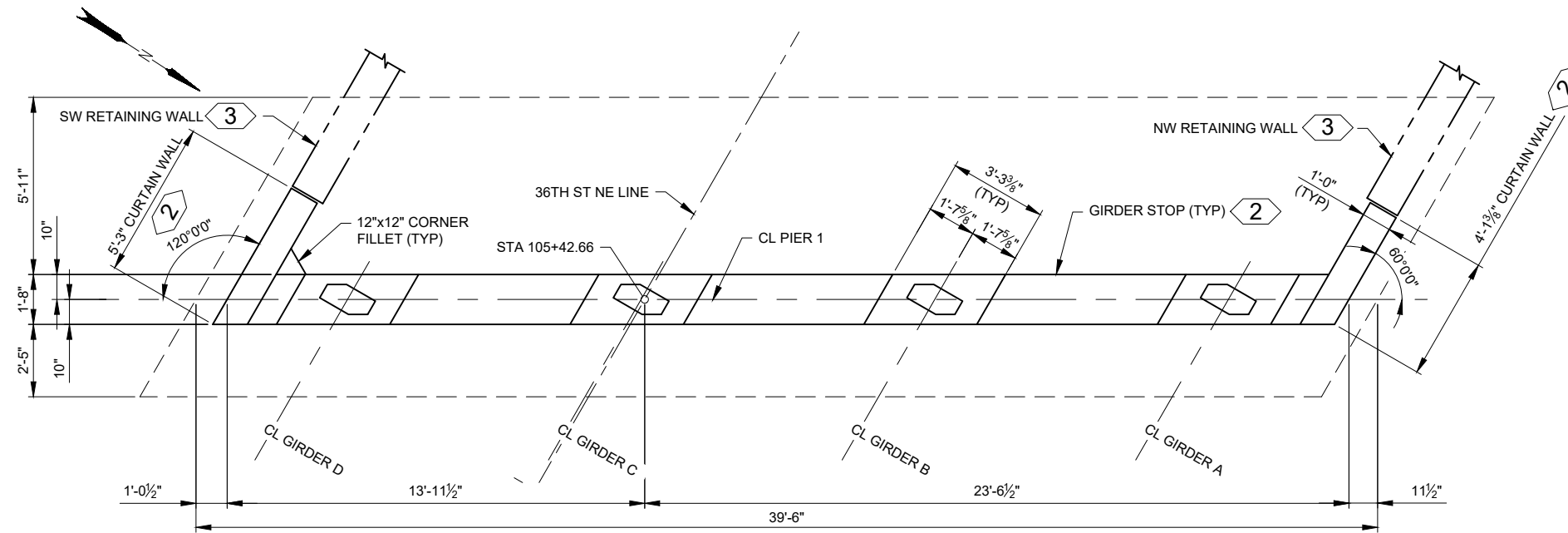


FOOTING PLAN

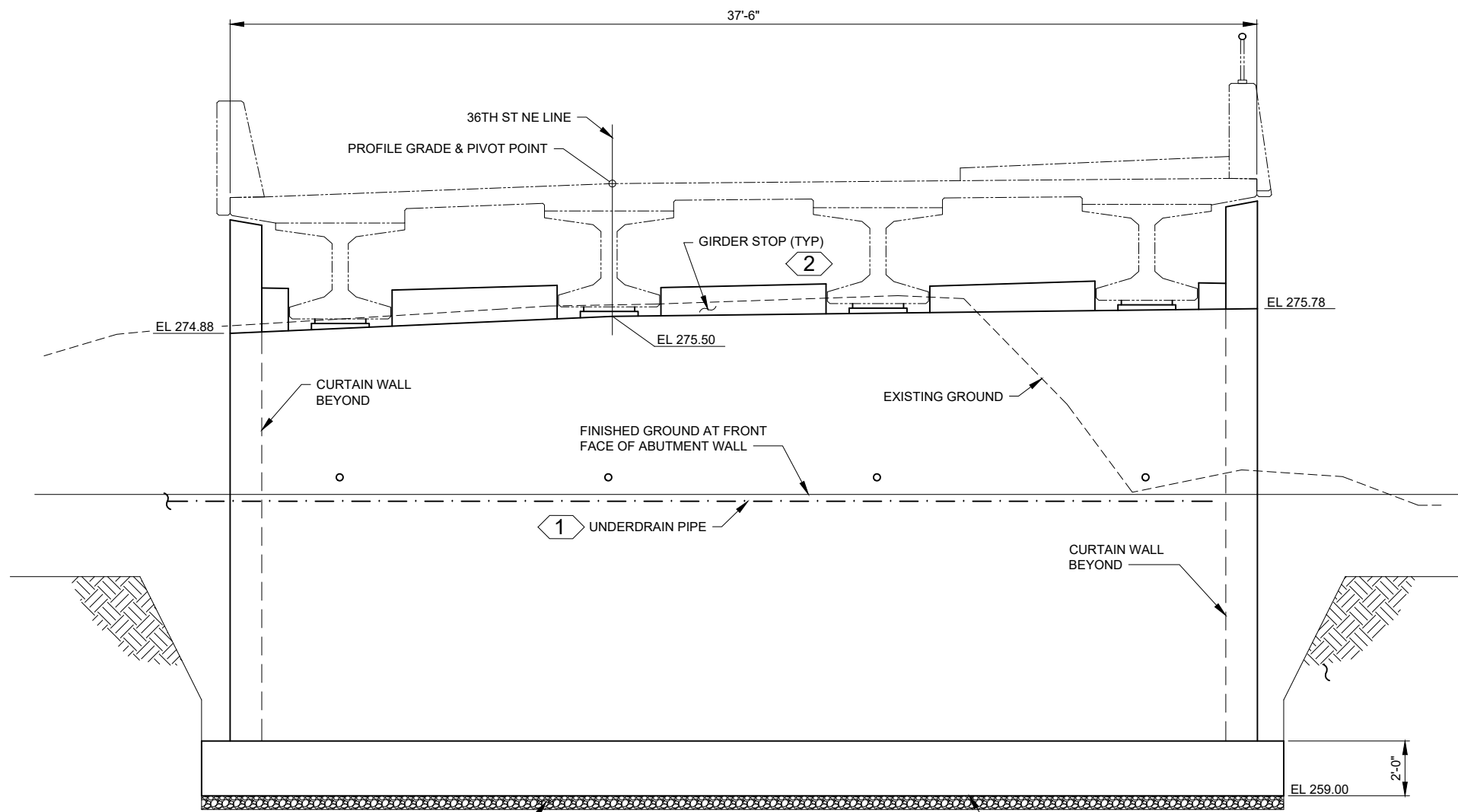
BEARING OF PIERS IS N33°02'08\"/>

PIERS ARE SIMILAR UNLESS SHOWN OTHERWISE

Plot Date: 3/9/2026 8:34 PM
Save Date: 3/9/2026 2:55 PM
By: Dustin Altenburg
File: P:\Last\00002083\04\CAD\BISHHEETS\B05-LAST2083-FT01.dwg



PLAN



ELEVATION

SHOWN AT CL OF PIER, LOOKING BACK ON STATION

TOP OF GROUT PAD ELEVATIONS	
GIRDER	ELEVATION
A	275.86
B	275.74
C	275.63
D	275.19

DAVID EVANS AND ASSOCIATES INC.
 14432 SE Eastgate Way
 Suite 400
 Bellevue, WA 98007
 425.519.6500

CATHERINE CREEK BRIDGE REPLACEMENT
 30% SUBMITTAL
 CITY OF LAKE STEVENS
PIER 1 PLAN AND ELEVATION
 WA
 LAKE STEVENS

REVIEWED BY	REVIEW BY	DATE	DATE

PRELIMINARY

CHECKED BY: CHECKED BY
 DESIGNED BY: DESIGNED BY
 DRAWN BY: J. CULPEPPER
 FIRST SUBMITTAL DATE: 3/02/26
 PROJECT NO.
LAST00002083
 SHEET NO.

KEY NOTES:

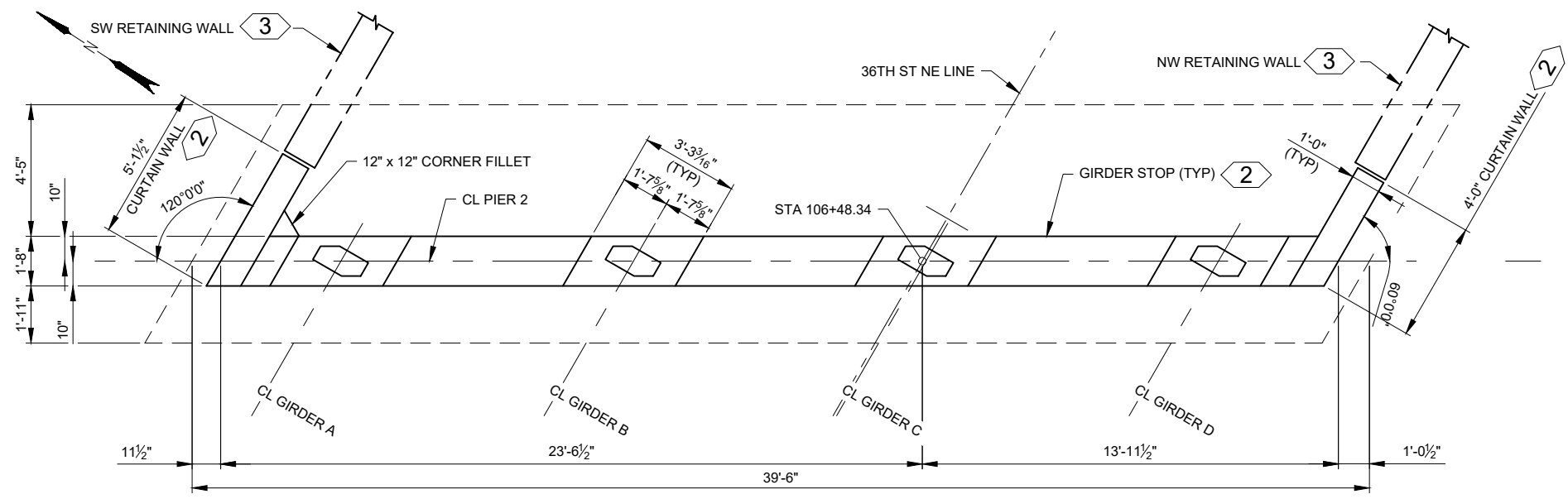
- 1 DAYLIGHT UNDERDRAIN ON SLOPE BEYOND SOUTH CURTAIN WALL, WITH ANTI-RODENT ENTRY FITTING AND MINIMUM LONGITUDINAL SLOPE OF 1%.
- 2 SEE PIER DETAIL SHEETS FOR DETAILS.
- 3 SEE RETAINING WALL SHEETS FOR DETAILS.

Plot Date: 3/8/2026 10:56 AM
 Save Date: 3/8/2026 10:56 AM
 By: Dustin Altenburg
 File: P:\L\last00002083\0400CAD\EB\SH\EB06-LAST2083-BT01.dwg

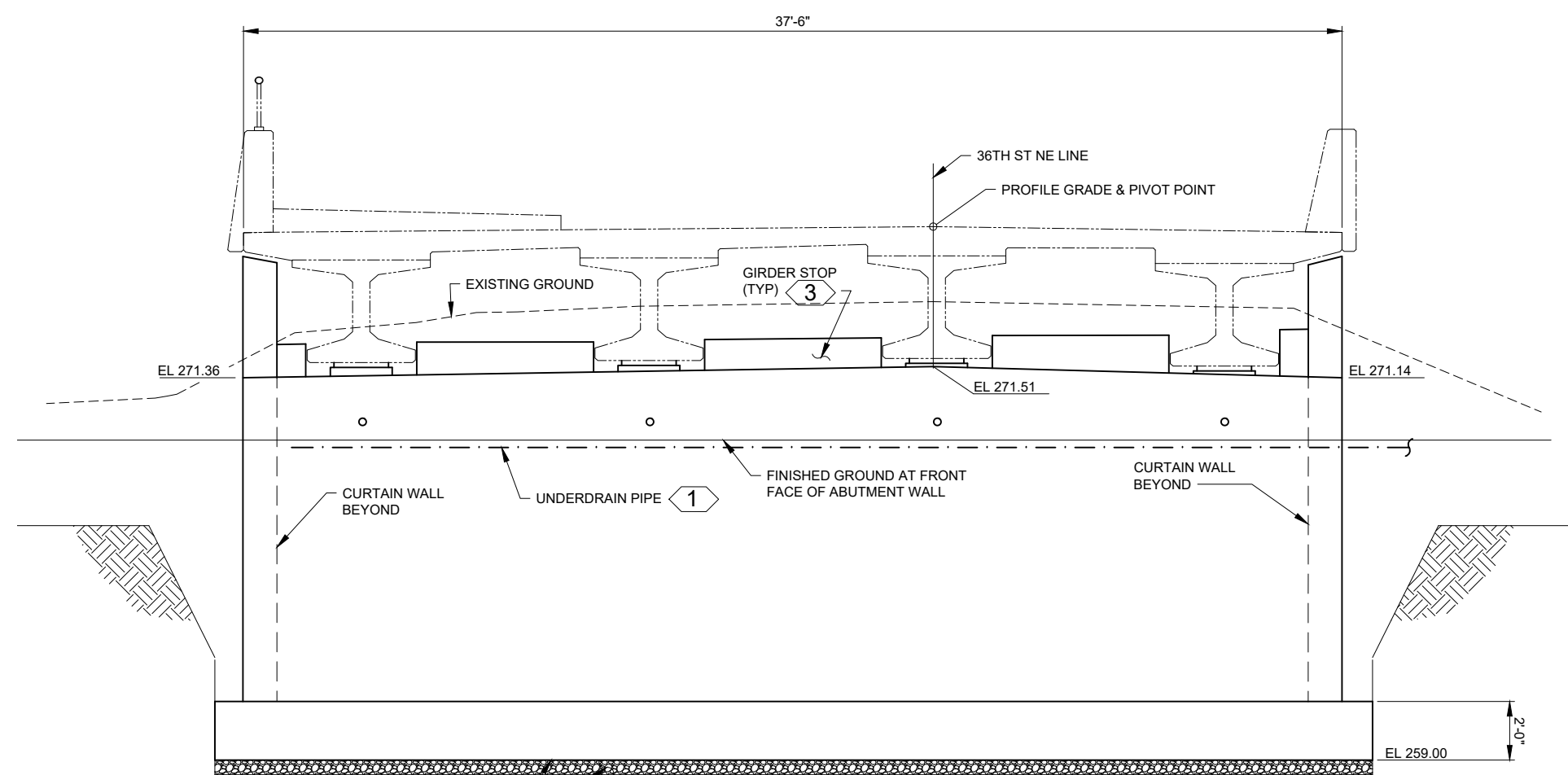
TOP OF GROUT PAD ELEVATIONS	
GIRDER	ELEVATION
A	271.51
B	271.57
C	271.64
D	271.37

DAVID EVANS AND ASSOCIATES INC.
 14432 SE Eastgate Way
 Suite 400
 Bellevue, WA 98007
 425.519.6500

CATHERINE CREEK BRIDGE REPLACEMENT
 30% SUBMITTAL
 CITY OF LAKE STEVENS
PIER 2 PLAN AND ELEVATION
 LAKE STEVENS WA



PLAN



ELEVATION

SHOWN AT CL OF PIER, LOOKING AHEAD ON STATION

KEY NOTES:

- 1 DAYLIGHT UNDERDRAIN ON SLOPE BEYOND SOUTH CURTAIN WALL, WITH ANTI-RODENT ENTRY FITTING AND MINIMUM LONGITUDINAL SLOPE OF 1%.
- 2 SEE PIER DETAIL SHEETS FOR DETAILS.
- 3 SEE RETAINING WALL SHEETS FOR DETAILS.

REVIEWED BY	DATE	REVISION	BY	CK

PRELIMINARY

CHECKED BY: CHECKED BY:
 DESIGNED BY: DESIGNED BY:
 DRAWN BY: J. CULPEPPER
 FIRST SUBMITTAL DATE: 3/02/26
 PROJECT NO.
LAST00002083
 SHEET NO.

B07

Plot Date: 3/8/2026 8:35 PM
 Save Date: 3/8/2026 11:15 AM
 By: Dustin Altenburg
 File: P:\L\last00002083\04\00\CAD\BISHHEETS\B07-LAST12083-BT02.dwg

NO.	DATE	REVISION	REVIEW BY	DATE	BY

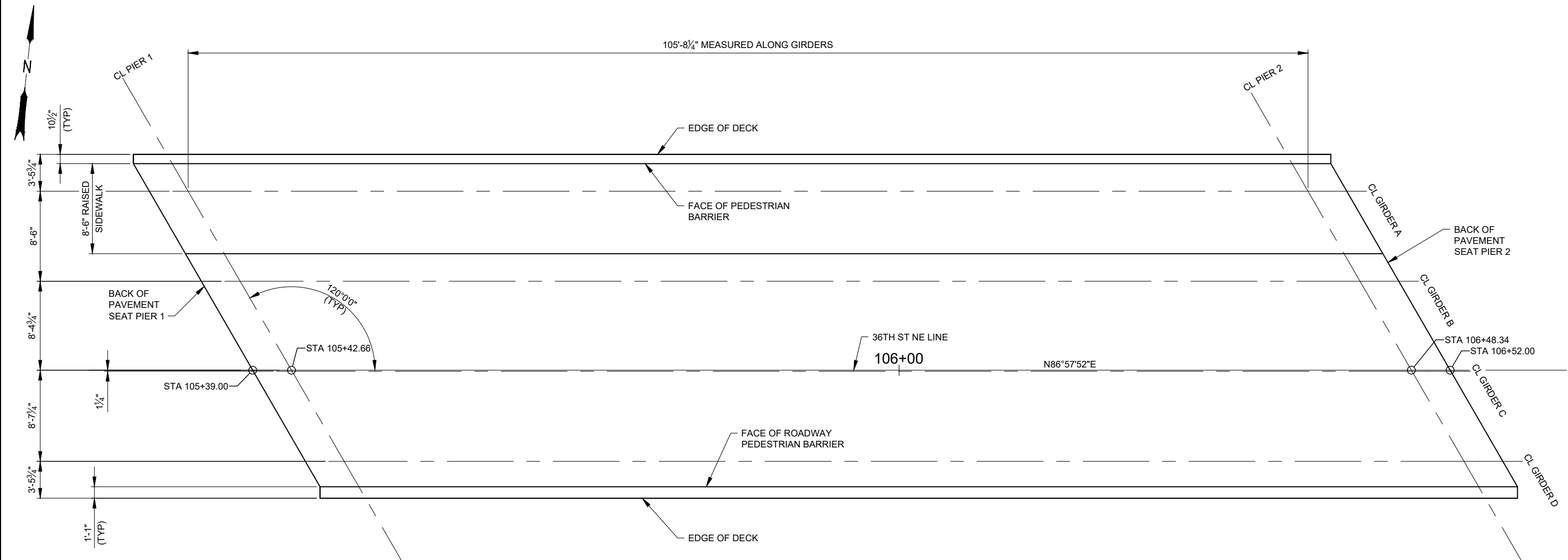
PRELIMINARY

CHECKED BY: CHECKED BY:
DESIGNED BY: DESIGNED BY:
DRAWN BY: J. CULPEPPER

FIRST SUBMITTAL DATE: 3/02/26

PROJECT NO.
LAST00002083

SHEET NO.
B13

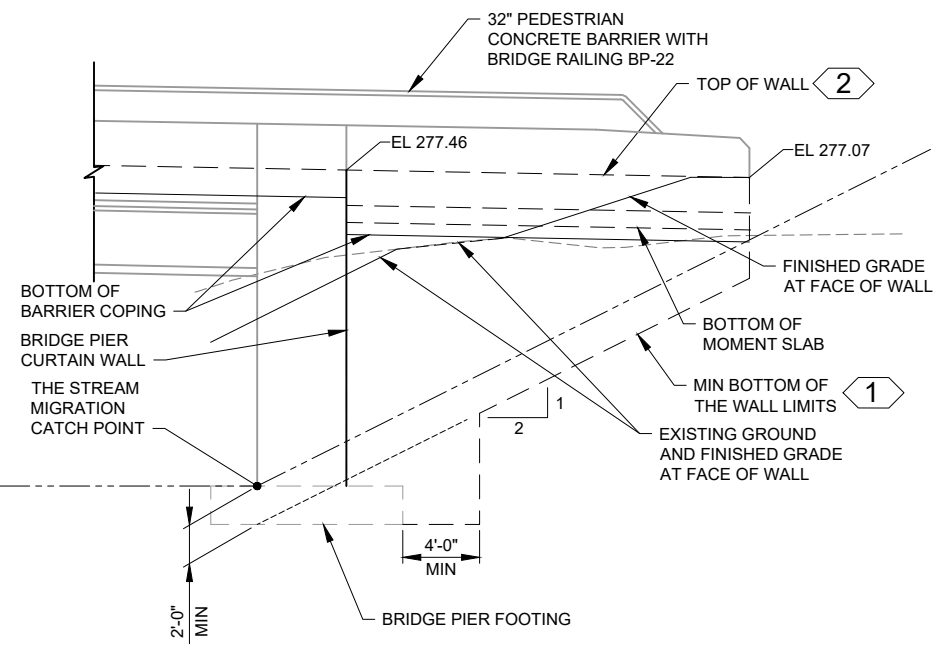
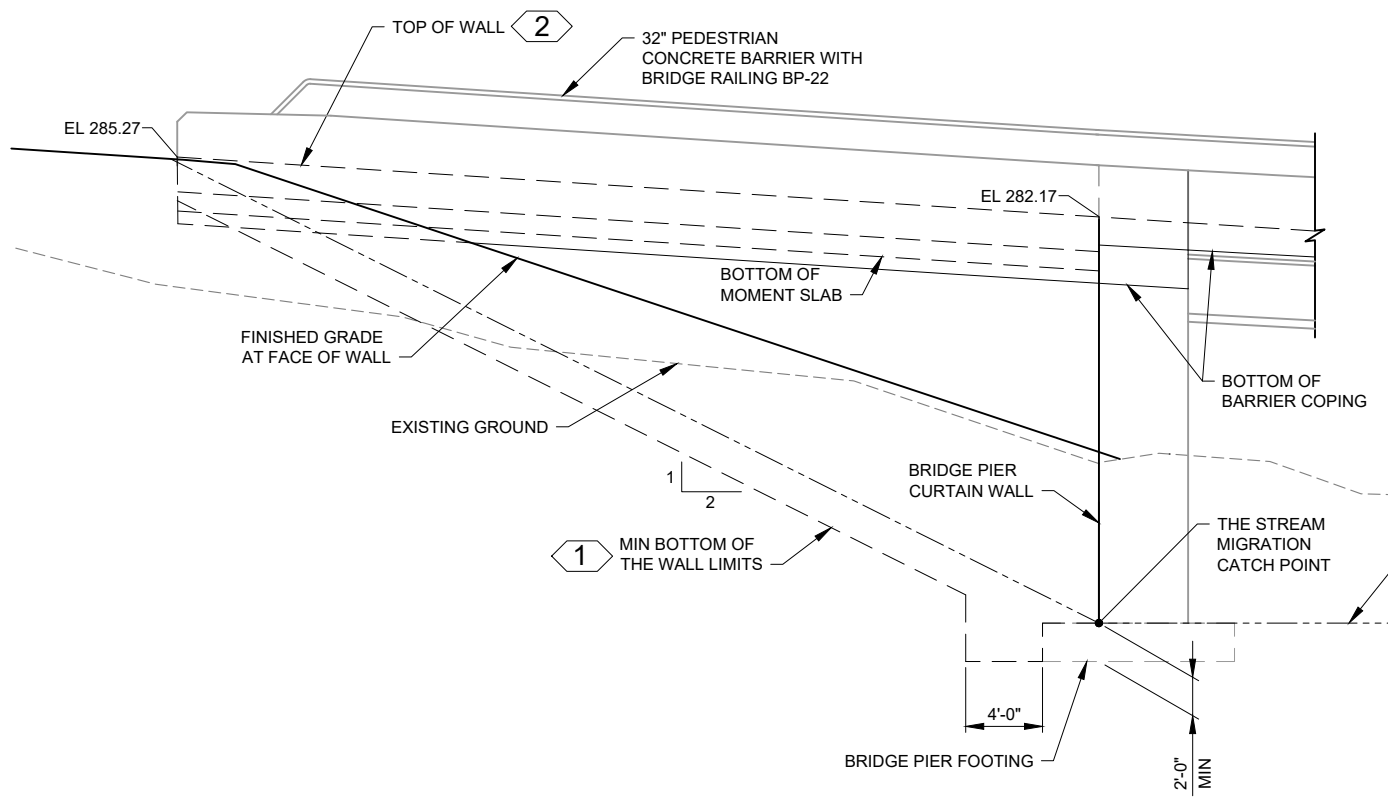
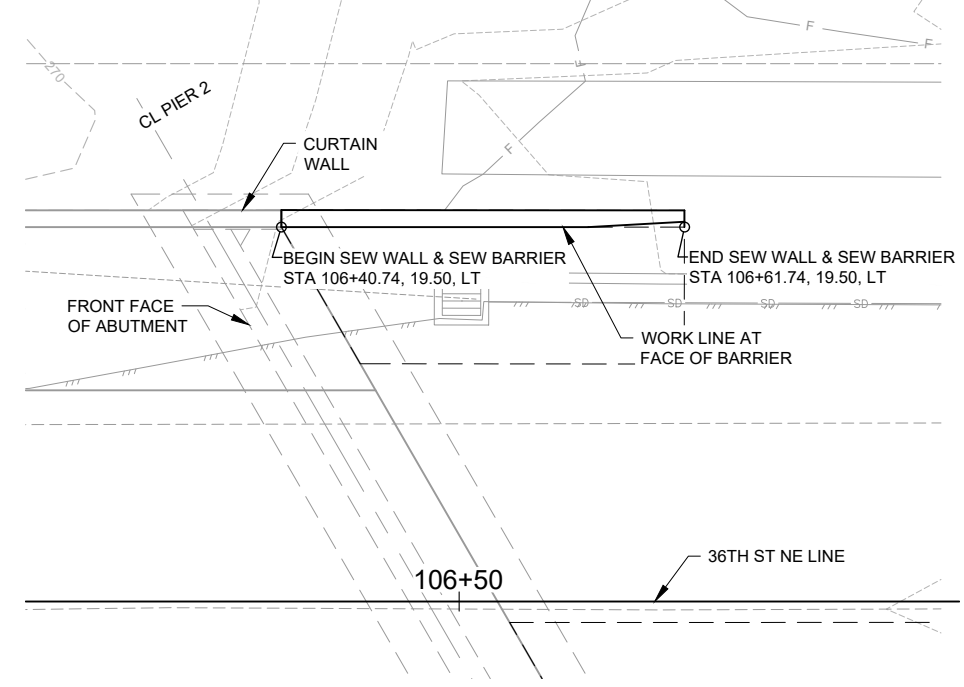
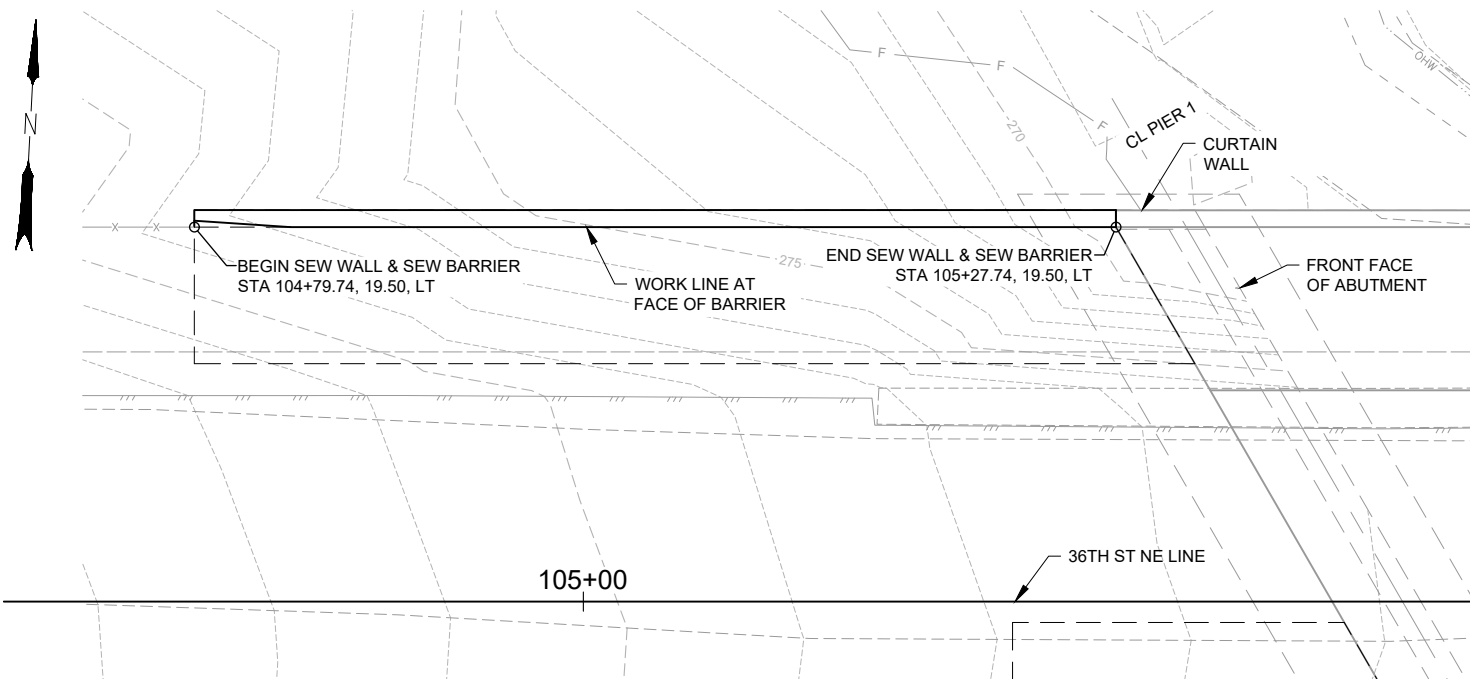


FRAMING PLAN
BEARING OF ALL GIRDERS IS N86°57'52"E

Plot Date: 3/2/2026 10:11 AM
 Save Date: 2/17/2026 11:53 AM
 By: Dustin Altenburg
 File: P:\Last00002083\0400CAD\EB\SHETS\EB13-LAST2083-FR01.dwg

NOTES:

1. STATIONS AND OFFSETS GIVEN AT WALL WORK LINE. SEE RETAINING WALL DETAIL SHEETS FOR LOCATION OF TOP OF WALL ELEVATIONS AND FINISHED GRADE AT WALL FACE
2. SEE PIER PLAN AND ELEVATION SHEETS FOR PIER DETAILS



KEY NOTES:

- 1 ACTUAL TOP OF LEVELING PAD TO BE DETERMINED BY THE WALL MANUFACTURER. SEE TYPICAL WALL SECTION FOR DETAILS
- 2 FINISHED SIDEWALK GRADE AT INSIDE FACE OF BARRIER

Plot Date: 3/9/2026 8:37 PM
 Save Date: 3/9/2026 8:16 PM
 By: Dustin Altenburg
 File: P:\L\last0002083\0400CAD\EB\SH\EB22-LAST2083-WA01.dwg

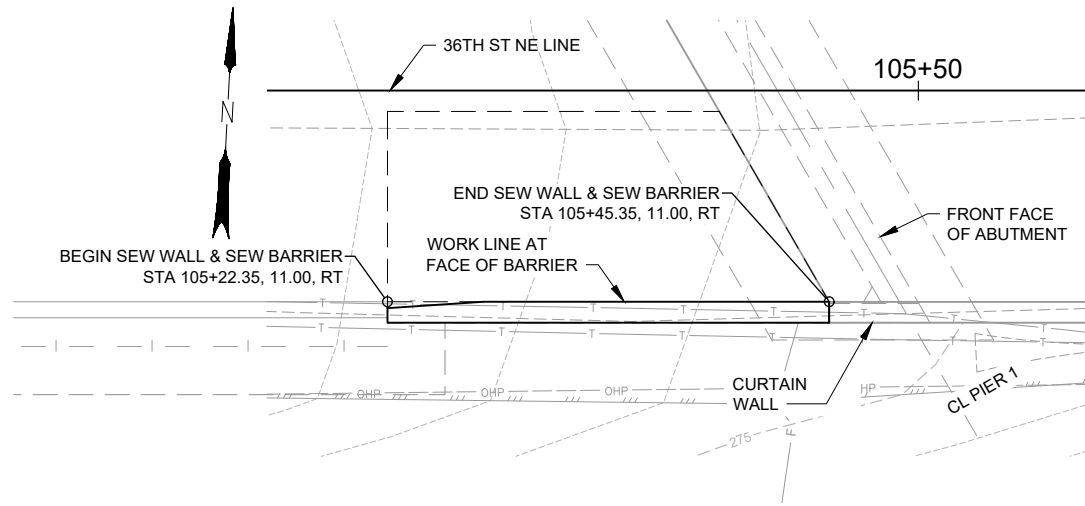
NO.	DATE	REVISION	REVIEW BY	DATE	BY	CK

PRELIMINARY

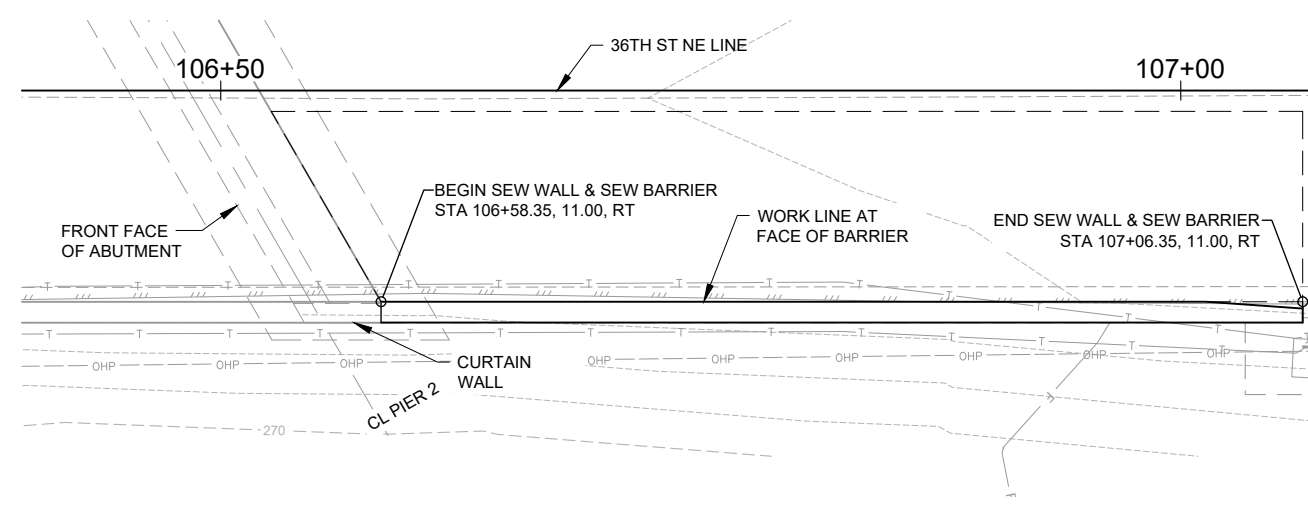
CHECKED BY: CHECKED BY
 DESIGNED BY: DESIGNED BY
 DRAWN BY: J. CULPEPPER
 FIRST SUBMITTAL DATE: 3/02/26
 PROJECT NO.
LAST0002083
 SHEET NO.
W01

NOTES:

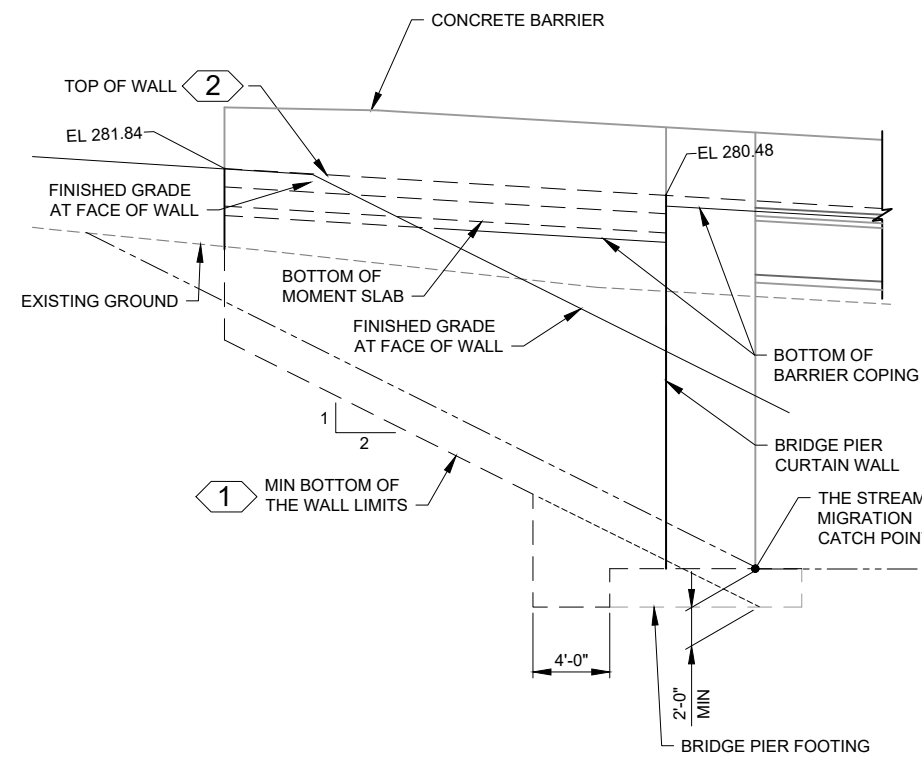
1. STATIONS AND OFFSETS GIVEN AT WALL WORK LINE. SEE RETAINING WALL DETAIL SHEETS FOR LOCATION OF TOP OF WALL ELEVATIONS AND FINISHED GRADE AT WALL FACE
2. SEE PIER PLAN AND ELEVATION SHEETS FOR PIER DETAILS



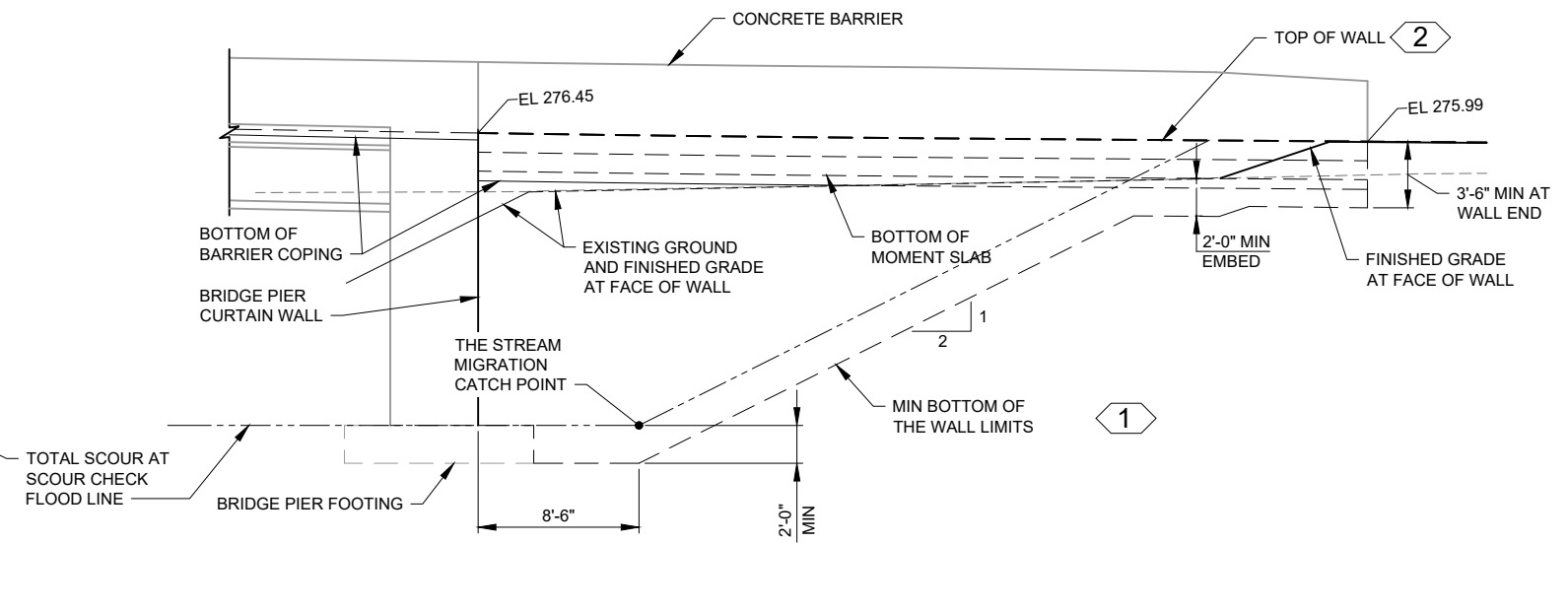
SW RETAINING WALL PLAN



SE RETAINING WALL PLAN



SW RETAINING WALL ELEVATION



SE RETAINING WALL ELEVATION

KEY NOTES:

- 1 ACTUAL TOP OF LEVELING PAD TO BE DETERMINED BY THE WALL MANUFACTURER. SEE TYPICAL WALL SECTION FOR DETAILS
- 2 FINISHED GRADE AT INSIDE FACE OF BARRIER

NO.	DATE	REVISION	REVIEW BY	DATE	BY

PRELIMINARY

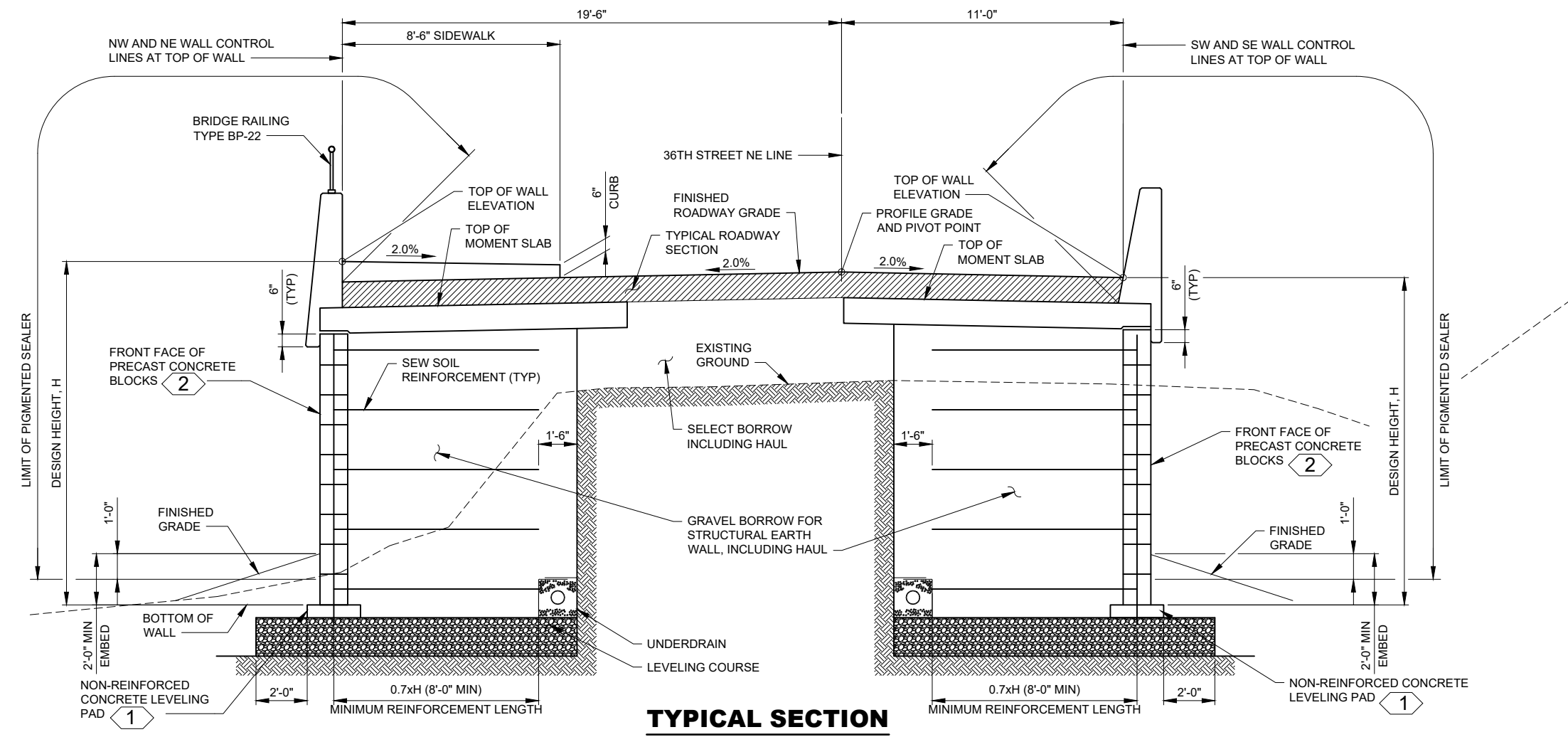
CHECKED BY: CHECKED BY
 DESIGNED BY: DESIGNED BY
 DRAWN BY: J. CULPEPPER

FIRST SUBMITTAL DATE: 3/02/26

PROJECT NO.
LAST00002083

SHEET NO.
W02

Plot Date: 3/9/2026 8:38 PM
 Save Date: 3/9/2026 8:17 PM
 By: Dustin Altenburg
 File: P:\L\last00002083\0400CAD\EB\SH\EB23-LAST2083-WA02.dwg



TYPICAL SECTION

MOMENT SLAB (ON WALL) SCHEDULE - STD PLAN C-81.15

WALL NAME	MS TYPE	BEGIN				END				LENGTH	CROSS SLOPE &	B	ACTUAL FILL (IN)	#BO
		STATION	OFFSET	SKEW	ATTACH	STATION	OFFEST	SKEW	ATTACH					
NW	18W.12-18	104+79.74	19.50' LT	0.00°	GUARDRAIL	105+27.74	19.50' LT	30.00°	BARRIER	48.00'	2%	8.00'	22.08	0
SW	5W.06-12	105+22.35	11.00' RT	0.00°	GUARDRAIL	105+45.35	11.00' RT	30.00°	BARRIER	23.00'	2%	11.00'	12.00	0
NE	5W.12-18	106+40.74	19.50' LT	30.00°	BARRIER	106+61.74	19.50' LT	0.00°	GUARDRAIL	21.00'	2%	11.00'	22.08	0
SE	18W.06-12	106+58.35	1.00' RT	30.00°	BARRIER	107+06.35	1.00' RT	0.00°	GUARDRAIL	48.00'	2%	9.00'	12.00	0

KEY NOTES:

- 1 6" NON-REINFORCED CONCRETE LEVELING PADS SHALL BE 12" MIN WIDER THAN PRECAST CONCRETE BLOCKS
- 2 BATTER PER WALL MANUFACTURER REQUIREMENTS

NO.	DATE	REVISION	BY	CHK

PRELIMINARY

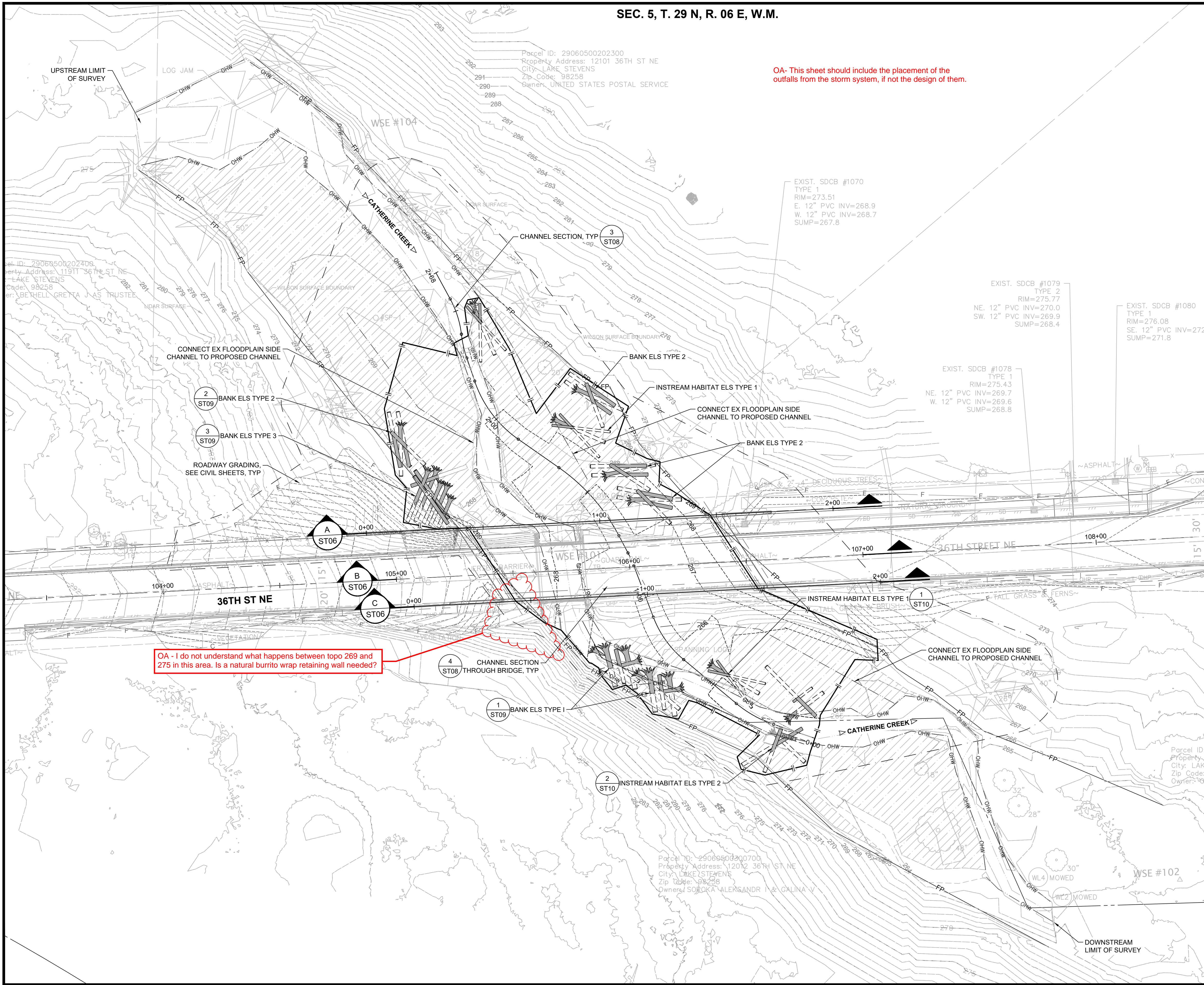
CHECKED BY: CHECKED BY
 DESIGNED BY: DESIGNED BY
 DRAWN BY: J. CULPEPPER
 FIRST SUBMITTAL DATE: 3/02/26
 PROJECT NO.
LAST00002083
 SHEET NO.
W03

Plot Date: 3/6/2026 7:21 AM
 Save Date: 3/3/2026 11:29 AM
 By: Dustin Altenburg
 File: P:\L\last00002083\0400CAD\EB\SHETS\EB24-LAST2083-WA03.dwg

SEC. 5, T. 29 N, R. 06 E, W.M.



OA- This sheet should include the placement of the outfalls from the storm system, if not the design of them.

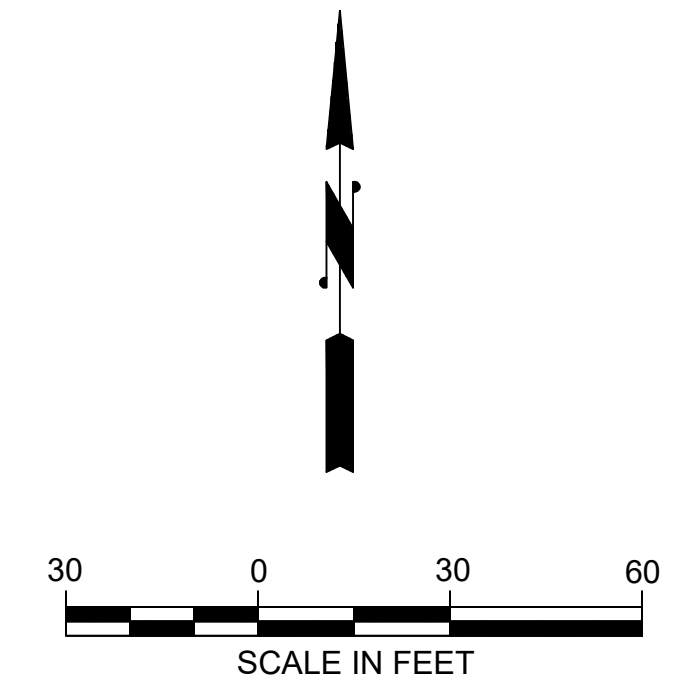


OA - I do not understand what happens between topo 269 and 275 in this area. Is a natural burrito wrap retaining wall needed?

LEGEND

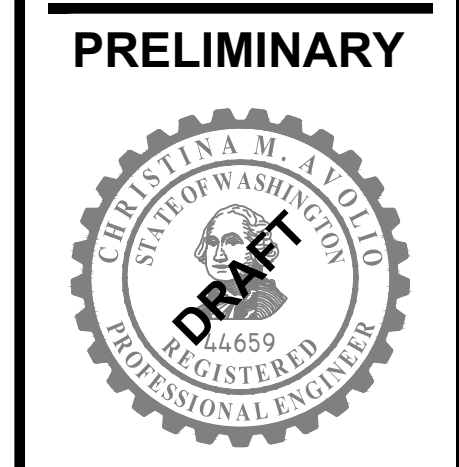
---	DISTURBANCE LIMITS
FP	EX MODELED FLOODPLAIN BOUNDARY
OHW	EX ORDINARY HIGH WATER
- - -	EX FLOODPLAIN SIDE CHANNEL
F	ROADWAY GRADING LIMITS
	RESTORATION GRADING LIMITS
100	EX MAJOR CONTOUR
260	EX MINOR CONTOUR
261	PROPOSED MAJOR CONTOUR
261	PROPOSED MINOR CONTOUR
WETLAND	WETLAND
☆	EX 2" (ETC) CONIFER TREE
○	EX 2" (ETC) DECIDUOUS TREE

- GENERAL NOTES**
- SEE SHEET ST02 FOR STREAM AND FLOODPLAIN RESTORATION SITE PREPARATION AND TESC PLAN.
 - SEE SHEET ST03 FOR STREAM AND FLOODPLAIN RESTORATION FLOW BYPASS AND FISH EXCLUSION PLAN.
 - SEE SHEET ST05 FOR STREAM AND FLOODPLAIN RESTORATION GRADING PLAN AND PROFILE.
 - SEE SHEET ST11 FOR STREAM AND FLOODPLAIN RESTORATION PLANTING PLAN.



CATHERINE CREEK BRIDGE REPLACEMENT
 30% SUBMITTAL
 CITY OF LAKE STEVENS
 SITE PLAN
 STREAM AND FLOODPLAIN RESTORATION
 LAKE STEVENS
 WA

REVIEWED BY:	REVIEW BY:
NO. DATE REVISION	DATE DATE BY CHK



PRELIMINARY
 CHECKED BY: CHECKED BY
 DESIGNED BY: DESIGNED BY
 DRAWN BY: CPM
 FIRST SUBMITTAL DATE: 3/02/26
 PROJECT NO.
LAST00002083
 SHEET NO.
ST01

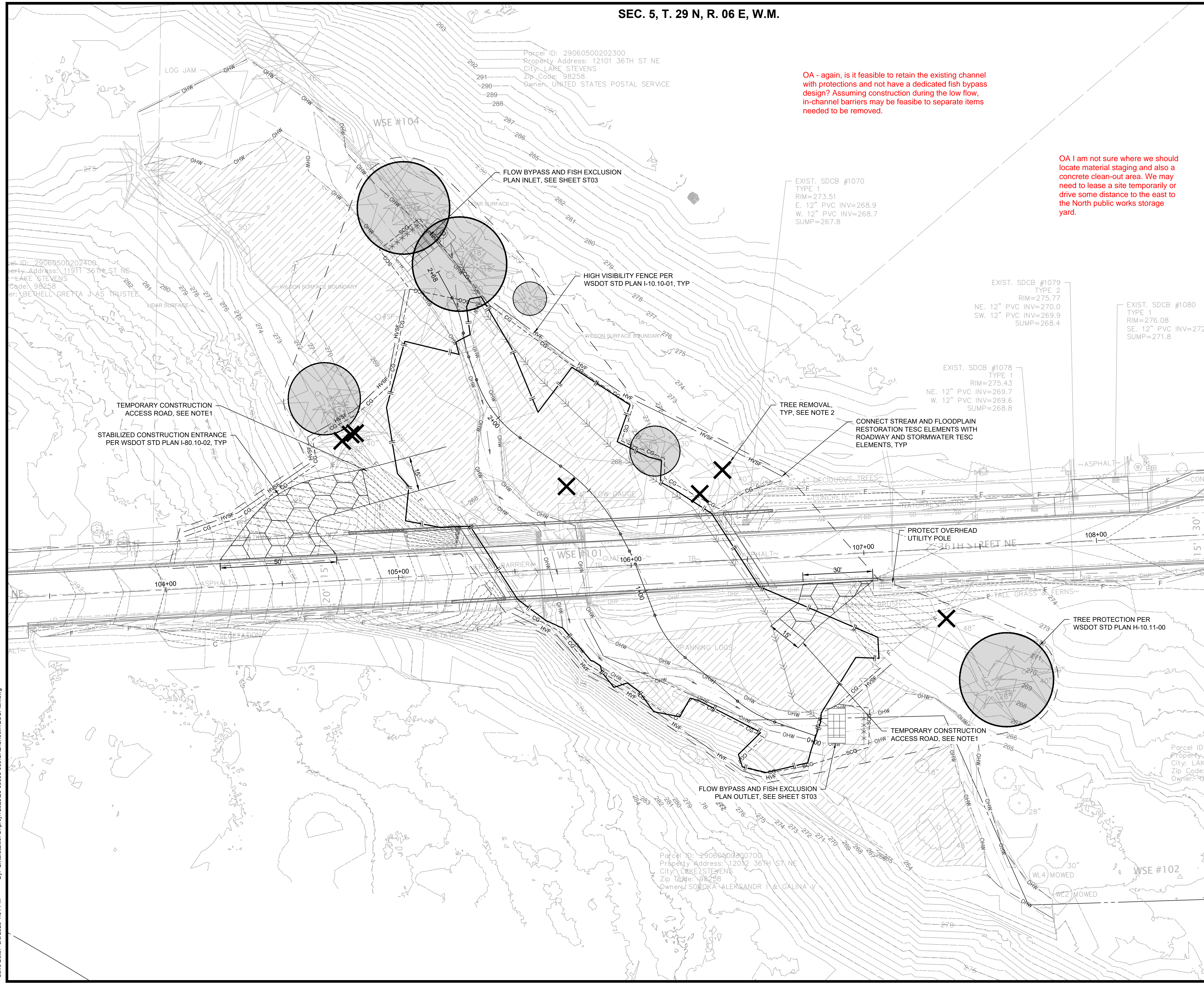
Plot Date: 3/9/2026 4:35 PM
 Save Date: 3/9/2026 4:33 PM
 By: Chuck Marston
 By: Chansuffie O'wroynY202625-08605-000CADSheetRestorationPlan.dwg

SEC. 5, T. 29 N, R. 06 E, W.M.



OA - again, is it feasible to retain the existing channel with protections and not have a dedicated fish bypass design? Assuming construction during the low flow, in-channel barriers may be feasible to separate items needed to be removed.

OA I am not sure where we should locate material staging and also a concrete clean-out area. We may need to lease a site temporarily or drive some distance to the east to the North public works storage yard.



LEGEND

- DISTURBANCE LIMITS
- GRADING LIMITS
- HI-VIZ SILT FENCE
- HI-VIZ FENCE
- CLEAR AND GRUB LIMITS
- SELECTIVE CLEAR AND GRUB LIMITS
- STABILIZED CONSTRUCTION ENTRANCE
- TREE PROTECTION
- REMOVE TREE

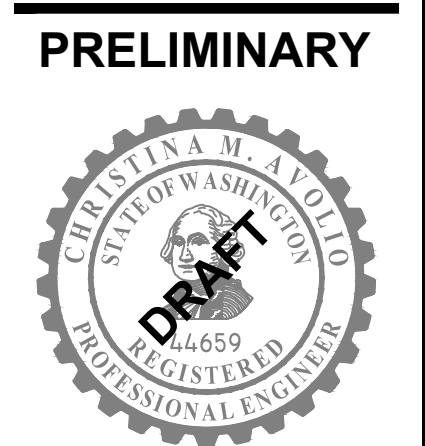
TESC NOTES

1. TEMPORARY CONSTRUCTION ACCESS ROADS TO BE CREATED VIA PLACING SEPARATION GEOTEXTILE AND 1 FOOT THICK LAYER OF ARBORIST WOOD CHIP MULCH.
2. SALVAGE ALL WOOD FROM TREE REMOVAL TO BE USED AS RACKING AND SLASHING FOR ELJ AND HABITAT STRUCTURE CONSTRUCTION AS DIRECTED BY ENGINEER.



CATHERINE CREEK BRIDGE REPLACEMENT
 30% SUBMITTAL
 CITY OF LAKE STEVENS
SITE PREPARATION AND TESC PLAN
 STREAM AND FLOODPLAIN RESTORATION
 LAKE STEVENS

REVIEWED BY:	REVIEW BY:
NO. DATE REVISION	DATE DATE BY/CK



CHECKED BY: CHECKED BY
 DESIGNED BY: DESIGNED BY
 DRAWN BY: CPM

FIRST SUBMITTAL DATE: 3/02/26

PROJECT NO.
LAST00002083

SHEET NO.
ST02

Plot Date: 3/8/2026 4:46 PM
 Save Date: 3/8/2026 4:34 PM
 By: Chuck Marston
 By: Chansuffie O'roji\Y2026\25-08605-000\CAD\Sheet\TESCPlan.dwg

Parcel ID: 29060500202408
 Property Address: 11911 36TH ST NE
 CITY: LAKE STEVENS
 Zip Code: 98258
 Owner: BETHELL GRETTA J AS TRUSTEE

Parcel ID: 29060500202300
 Property Address: 12101 36TH ST NE
 CITY: LAKE STEVENS
 Zip Code: 98258
 Owner: UNITED STATES POSTAL SERVICE

Parcel ID: 29069900200700
 Property Address: 12012 36TH ST NE
 CITY: LAKE STEVENS
 Zip Code: 98258
 Owners: SOBOKA ALEXANDR I & GALINA V

Parcel ID:
 Property Address:
 City: LAKE STEVENS
 Zip Code:
 Owner:

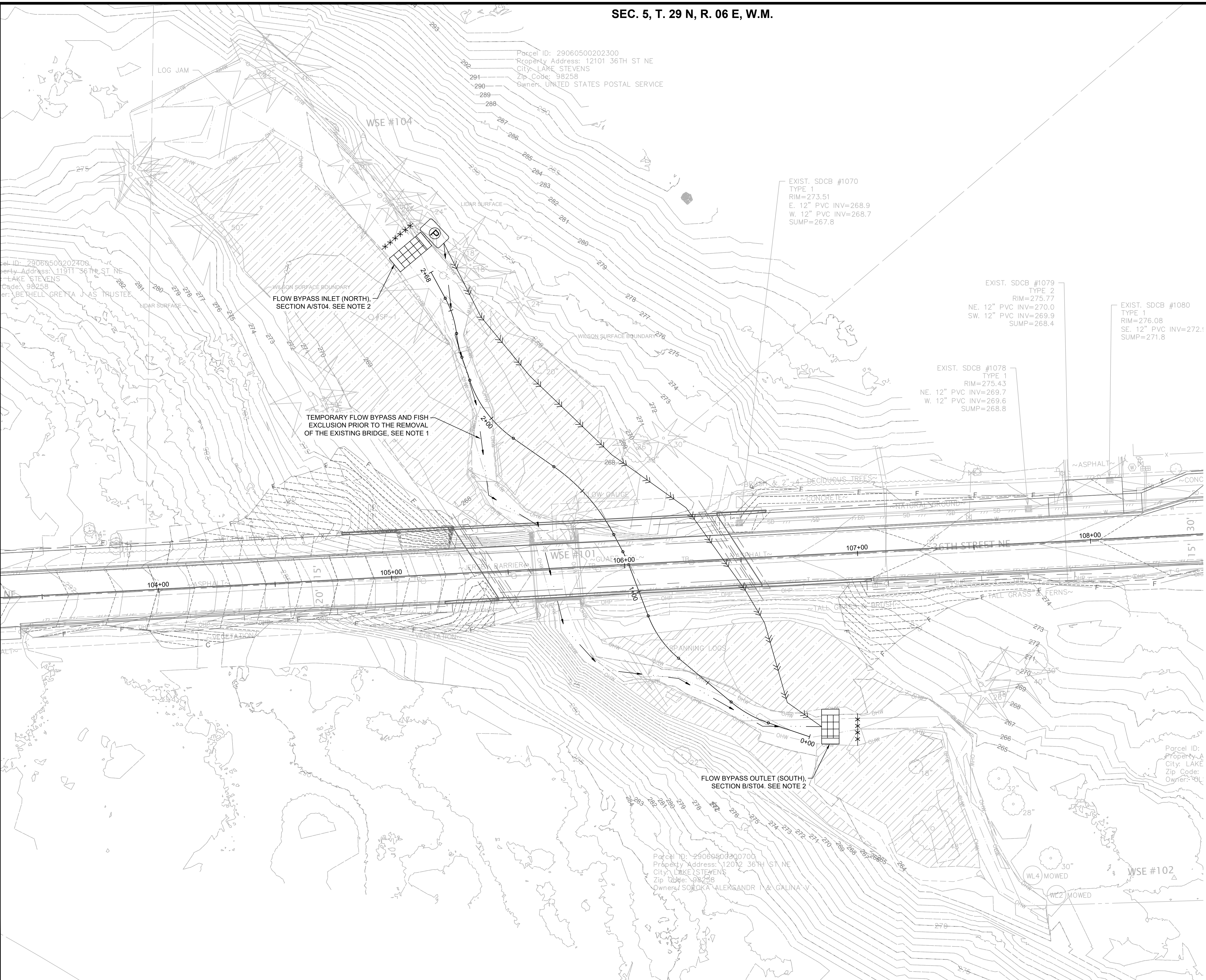
SEC. 5, T. 29 N, R. 06 E, W.M.



Parcel ID: 29060500202300
 Property Address: 12101 36TH ST NE
 City: LAKE STEVENS
 Zip Code: 98258
 Owner: UNITED STATES POSTAL SERVICE

Parcel ID: 29060500202408
 Property Address: 11911 36TH ST NE
 City: LAKE STEVENS
 Zip Code: 98258
 Owner: BETHELL GRETTA J AS TRUSTEE

Plot Date: 3/9/2026 4:38 PM
 Save Date: 3/9/2026 4:33 PM
 By: Chuck Marston
 By: Chmarstufle, O:\proj\Y2025\25-08605-000\CAD\Sheet\FlowBypass.dwg



EXIST. SDCB #1070
 TYPE 1
 RIM=273.51
 E. 12" PVC INV=268.9
 W. 12" PVC INV=268.7
 SUMP=267.8

EXIST. SDCB #1079
 TYPE 2
 RIM=275.77
 NE. 12" PVC INV=270.0
 SW. 12" PVC INV=269.9
 SUMP=268.4

EXIST. SDCB #1080
 TYPE 1
 RIM=276.08
 SE. 12" PVC INV=272.1
 SUMP=271.8

EXIST. SDCB #1078
 TYPE 1
 RIM=275.43
 NE. 12" PVC INV=269.7
 W. 12" PVC INV=269.6
 SUMP=268.8

FLOW BYPASS INLET (NORTH),
 SECTION A/ST04. SEE NOTE 2

TEMPORARY FLOW BYPASS AND FISH
 EXCLUSION PRIOR TO THE REMOVAL
 OF THE EXISTING BRIDGE, SEE NOTE 1

FLOW BYPASS OUTLET (SOUTH),
 SECTION B/ST04. SEE NOTE 2

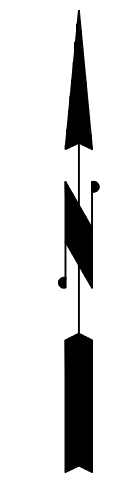
Parcel ID: 29069900200700
 Property Address: 12012 36TH ST NE
 City: LAKE STEVENS
 Zip Code: 98258
 Owners: SOBOKA ALEXANDR I & GALINA V

LEGEND

- XXXXXXXXXXXX FISH EXCLUSION NET, SEE DETAIL 1/ST04
- INITIAL FLOW BYPASS PIPE
- LATER FLOW BYPASS PIPE
- [Grid Symbol] BULK BAG COFFERDAM
- [P Symbol] BYPASS PUMP, SEE DETAIL 1/ST04

TESC NOTES

1. TEMPORARY FLOW BYPASS PIPE ALIGNMENT WILL BE ADJUSTED AFTER EXISTING BRIDGE REMOVAL
2. TIE IN THE UPSTREAM FLOW BYPASS ACROSS THE WETLAND AS DIRECTED BY THE ENGINEER OR BIOLOGIST.



CATHERINE CREEK BRIDGE REPLACEMENT
 30% SUBMITTAL

CITY OF LAKE STEVENS
FLOW BYPASS AND FISH EXCLUSION PLAN
 STREAM AND FLOODPLAIN RESTORATION

LAKE STEVENS WA

REVIEWED BY: REVIEW BY: DATE: DATE REVISION BY: CK

PRELIMINARY



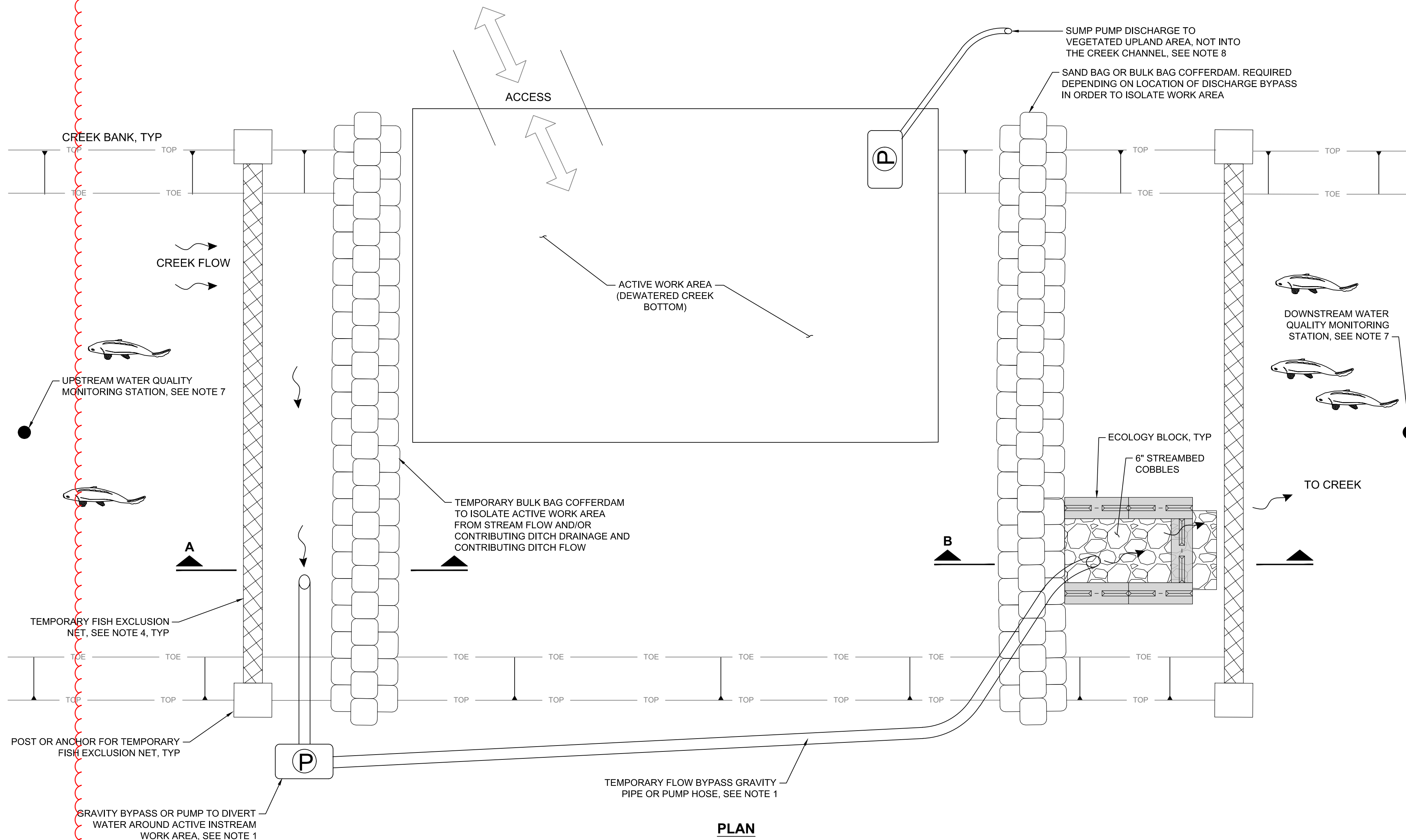
CHECKED BY: CHECKED BY
 DESIGNED BY: DESIGNED BY
 DRAWN BY: CPM

FIRST SUBMITTAL DATE: 3/02/26

PROJECT NO.
LAST00002083

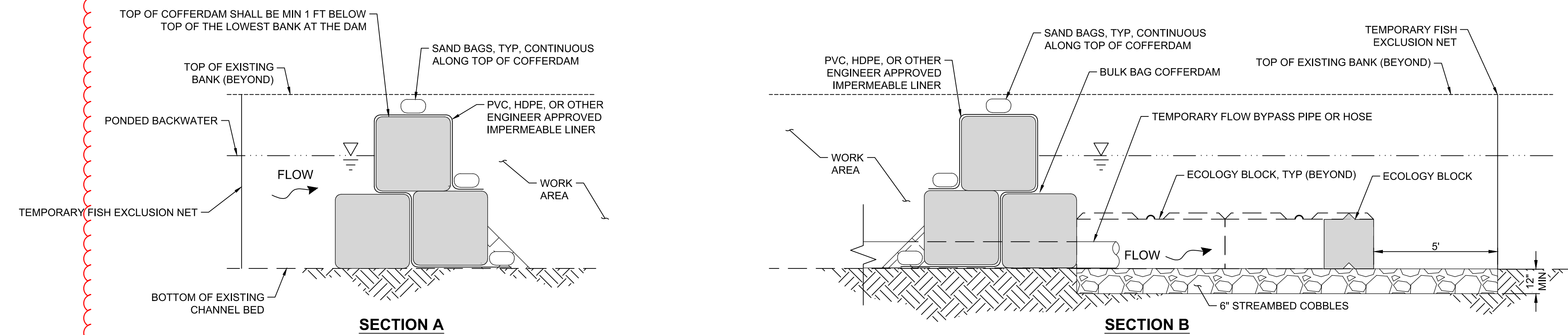
SHEET NO.
ST03

OA-1 recall hearing, during the site visit with the agencies, that maintaining the existing channel was a feasible, low cost way to implement the project. Is bypass actually necessary?



NOTES:

- THIS FLOW BYPASS AND FISH EXCLUSION SCHEMATIC REPRESENTS THE MINIMUM FLOW BYPASS REQUIREMENTS. ALTERNATIVE PROPOSALS FOR FLOW BYPASS MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND ANY ADJUSTMENTS WILL BE MADE AT THE CONTRACTOR'S EXPENSE. CONDITIONS OF PROJECT PERMITS AND EASEMENTS MUST BE FOLLOWED AT ALL TIMES. SEE CONTRACT SPECIFICATIONS.
- ALL TEMPORARY FLOW BYPASS EQUIPMENT, PIPES AND HOSES SHALL BE LOCATED AND ALIGNED WITHIN THE PERMANENT AND TEMPORARY CONSTRUCTION EASEMENTS, SEE CONTRACT SPECIFICATIONS.
- ALL EXCAVATIONS THAT HAVE POTENTIAL TO IMPACT THE WETTED CHANNEL SHALL BE ISOLATED FROM THE ACTIVE FLOW BY THE CONTRACTOR. ISOLATION MEANS SHALL CONSIST OF A TEMPORARY FLOW BARRIER TO DIVERT WATER AROUND THE ACTIVE WORK AREA. CONTRACTOR SHALL USE EVERY MEASURE POSSIBLE TO MINIMIZE TURBIDITY DISCHARGES INTO CREEK AND SHALL STOP CONSTRUCTION AS DIRECTED BY ENGINEER IF TURBIDITY EXCEEDS PERMITTED LEVELS. COFFERDAM CONSTRUCTION SHALL NOT COMMENCE UNTIL THE UPSTREAM AND DOWNSTREAM TEMPORARY FISH EXCLUSION NETS HAVE BEEN INSTALLED OR COFFERDAM AND FISH REMOVAL IS COMPLETE. SEE NOTE 4.
- FISH EXCLUSION AND FISH REMOVAL WORK TO BE PERFORMED BY THE CONTRACTOR AND MUST BE TIMED AND COORDINATED WITH STREAM FLOW BYPASS PER THE WSDOT FISH EXCLUSION PROTOCOLS AND STANDARDS (2023 UPDATE) AND THE REQUIREMENTS OF THE HYDRAULIC PROJECT APPROVAL PERMIT. TEMPORARY FISH EXCLUSION NET MUST REMAIN IN PLACE DURING INSTREAM WORK AND COFFERDAM REMOVAL.
- SIZE, QUANTITY AND CONFIGURATION OF BULK BAGS SHOWN FOR COFFERDAMS ARE CONCEPTUAL ONLY AND WILL VARY FROM THAT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING APPROPRIATE SIZE, QUANTITY AND CONFIGURATION OF BULK BAGS AND/OR SANDBAGS NECESSARY TO BYPASS FLOW AND ISOLATE THE WORK AREA AND ENABLE SUCCESSFUL OPERATION OF BYPASS SYSTEM AND MINIMIZE FLOW LEAKAGE TO THE EXTENT NECESSARY TO COMPLETE CONSTRUCTION AND CONFORM TO PERMIT REQUIREMENTS. MINOR EXCAVATION OF BANKS WILL BE ALLOWED TO KEY-IN BULK BAGS AS NECESSARY TO MINIMIZE FLOW LEAKAGE AND COMPLETE INSTALLATION OF COFFERDAM. ALL BULK BAGS SHALL BE FILLED WITH CLEAN WASHED ROUNDED GRAVEL AND SANDBAGS FILLED WITH CLEAN, WASHED SAND.
- TEMPORARY PUMPING OF CREEK AND DITCH FLOWS DURING INSTALLATION AND REMOVAL OF UPSTREAM COFFERDAM AND DOWNSTREAM OUTLET ENERGY DISSIPATER, AND DURING ALL INSTREAM CONSTRUCTION, WILL BE REQUIRED EXCEPT DURING HIGH FLOWS. SEE CONTRACT SPECIFICATIONS REGARDING FLOW BYPASS REQUIREMENTS DURING HIGH FLOWS. BYPASS PUMPS AND PIPES TO BE PROTECTED FROM CONSTRUCTION ACTIVITIES AT ALL TIMES. SOME TEMPORARY PIPE ANCHORING MAY BE REQUIRED. SEE CONTRACT SPECIFICATIONS.
- WATER QUALITY MONITORING STATIONS TO BE LOCATED UPSTREAM AND DOWNSTREAM OF FLOW BYPASS SYSTEM PER PROJECT PERMITS.
- GROUNDWATER WILL BE ENCOUNTERED IN EXCAVATIONS. CONTRACTOR SHALL DEWATER AS NECESSARY FOR CONSTRUCTION AND INSPECTION. ALL DEWATERING WATER SHALL BE DISCHARGED TO UPLAND AREAS OR AN EROSION CONTROL BMP AS APPROVED BY THE ENGINEER. THE WATER SHALL NOT BE DIRECTLY DISCHARGED INTO CREEK. EROSION CONTROL BMPs MAY BE NECESSARY TO ENSURE THAT DEWATERING ACTIVITIES SHALL NOT IMPACT WATER QUALITY IN CREEK NOR CAUSE EROSION WHEN DISCHARGED TO UPLAND AREAS.
- THE FLOW BYPASS AND FISH EXCLUSION SYSTEM SHALL BE MAINTAINED 24 HOURS PER DAY DURING CONSTRUCTION AND MONITORED BY THE CONTRACTOR DURING WORKING AND NON-WORKING HOURS.
- CONTRACTOR SHALL REMOVE ALL TEMPORARY FLOW BYPASS MATERIALS FOLLOWING CONSTRUCTION AND FULLY RESTORE DISTURBED AREAS TO PRE-CONSTRUCTION CONDITIONS.



DETAIL - TEMPORARY FLOW BYPASS AND FISH EXCLUSION PLAN

SCALE: NTS

1
ST03

Plot Date: 3/9/2026 4:38 PM
 Save Date: 3/9/2026 4:33 PM
 By: Chuck Marston
 By: Charsuffile, O:\proj\2025\25-08605-000\CAD\Sheet\FlowBypass.dwg

CATHERINE CREEK BRIDGE REPLACEMENT
 30% SUBMITTAL
 CITY OF LAKE STEVENS
 FLOW BYPASS AND FISH EXCLUSION DETAILS
 STREAM AND FLOODPLAIN RESTORATION
 WA
 LAKE STEVENS

REVIEWED BY:	REVIEW BY:
DATE:	DATE:
NO.:	NO.:
REVISION:	REVISION:

PRELIMINARY

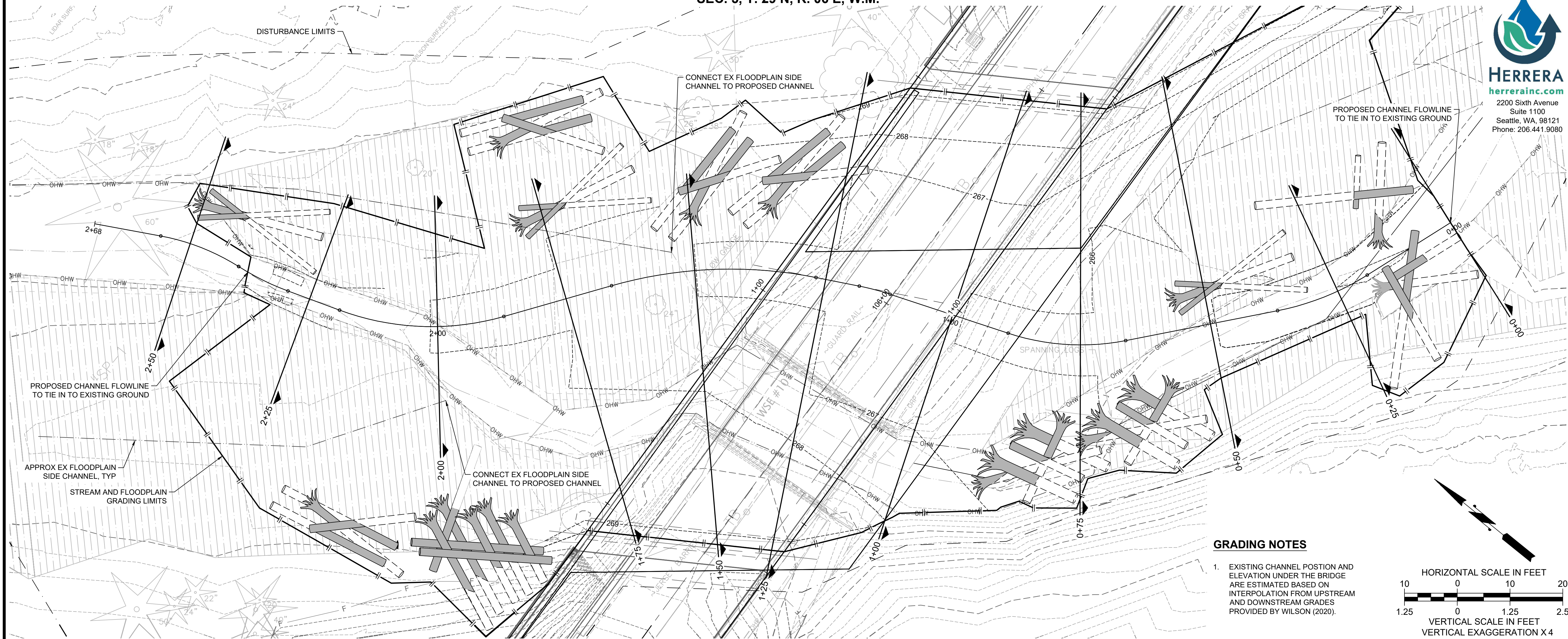


CHECKED BY: CHECKED BY
 DESIGNED BY: DESIGNED BY
 DRAWN BY: CPM

FIRST SUBMITTAL DATE: 3/02/26

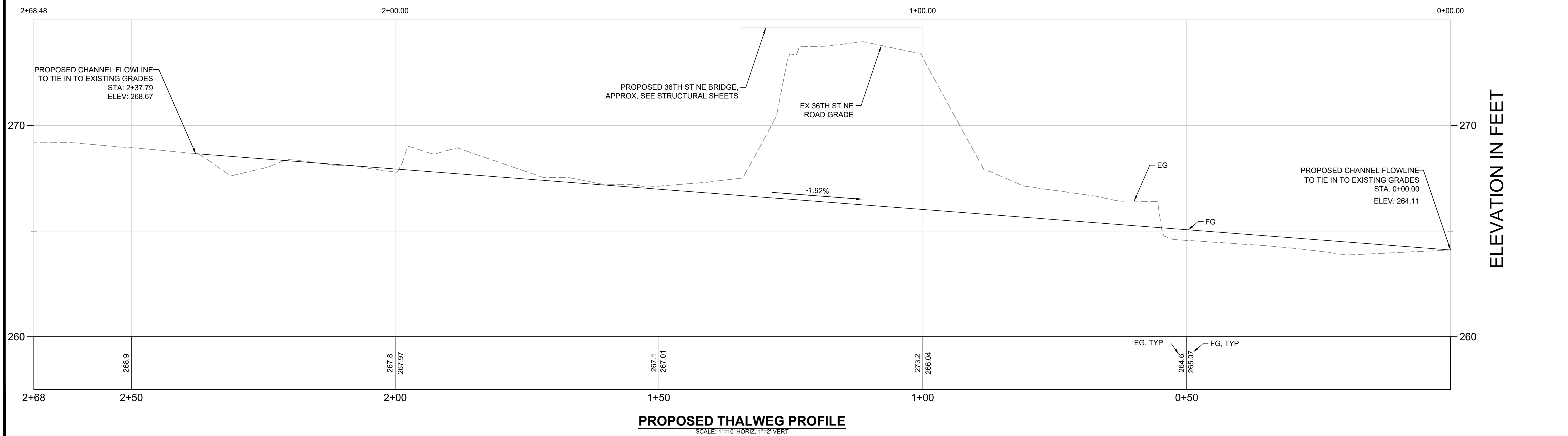
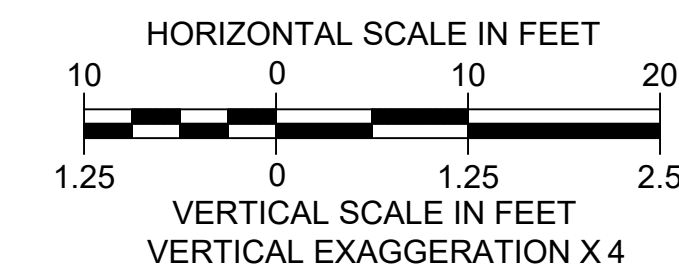
PROJECT NO.
LAST00002083

SHEET NO.
ST04



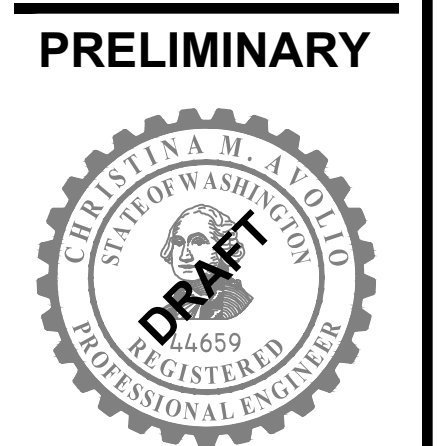
GRADING NOTES

- EXISTING CHANNEL POSITION AND ELEVATION UNDER THE BRIDGE ARE ESTIMATED BASED ON INTERPOLATION FROM UPSTREAM AND DOWNSTREAM GRADES PROVIDED BY WILSON (2020).



**CATHERINE CREEK BRIDGE REPLACEMENT
30% SUBMITTAL**
CITY OF LAKE STEVENS
GRADING PLAN AND PROFILE
STREAM AND FLOODPLAIN RESTORATION

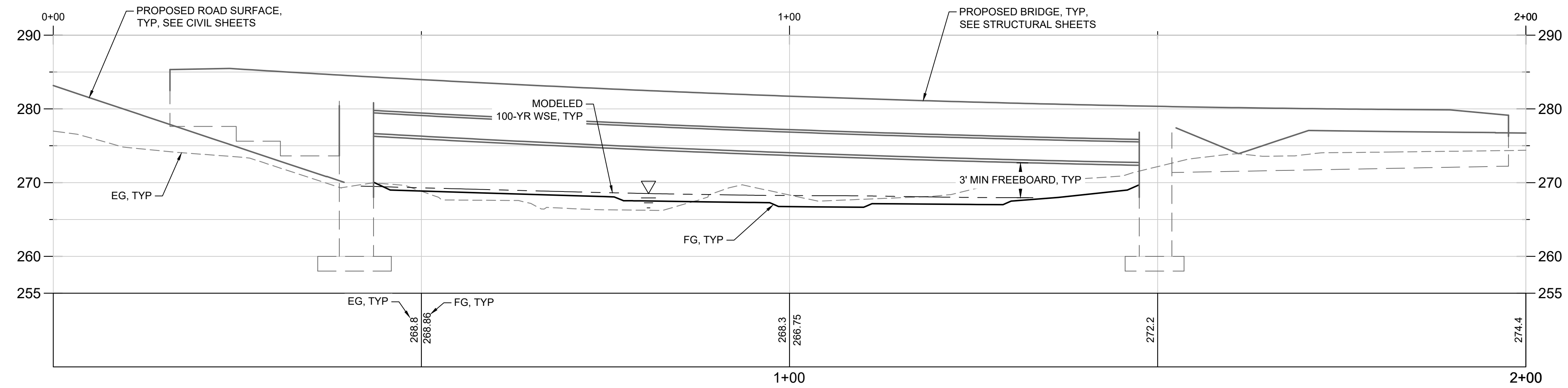
DATE	BY	CK
REVIEWED BY:	REVIEW BY:	
NO.	DATE	REVISION



CHECKED BY: CHECKED BY
 DESIGNED BY: DESIGNED BY
 DRAWN BY: CPM
 FIRST SUBMITTAL DATE: 3/02/26
 PROJECT NO.
LAST00002083
 SHEET NO.
ST05

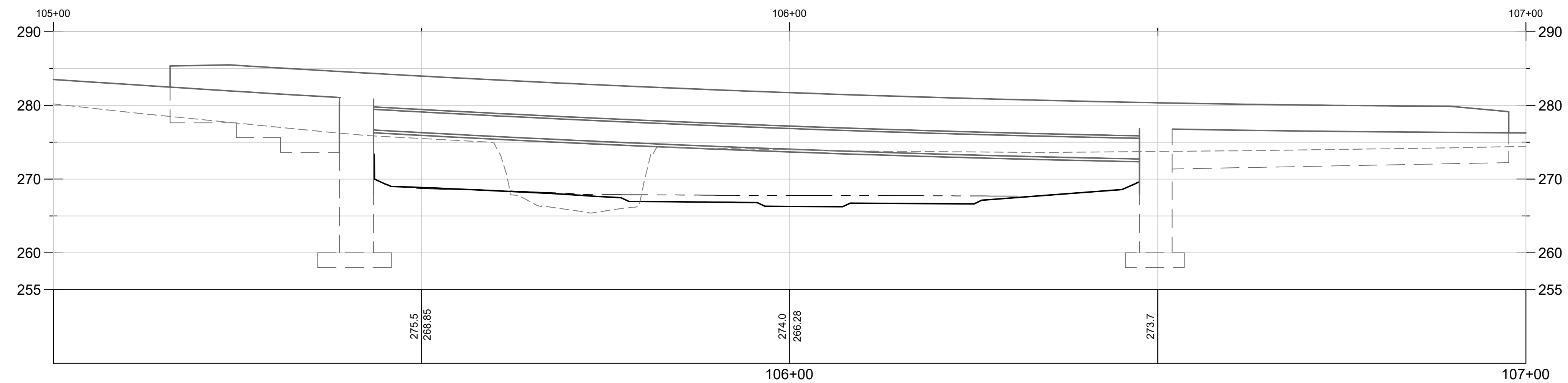
Plot Date: 3/8/2026 4:39 PM
 Save Date: 3/8/2026 4:34 PM
 By: Chuck Marston
 By: Chansufile: O:\proj\2025\25-08605-000\CAD\Sheet\Grading.dwg

SEC. 5, T. 29 N, R. 06 E, W.M.



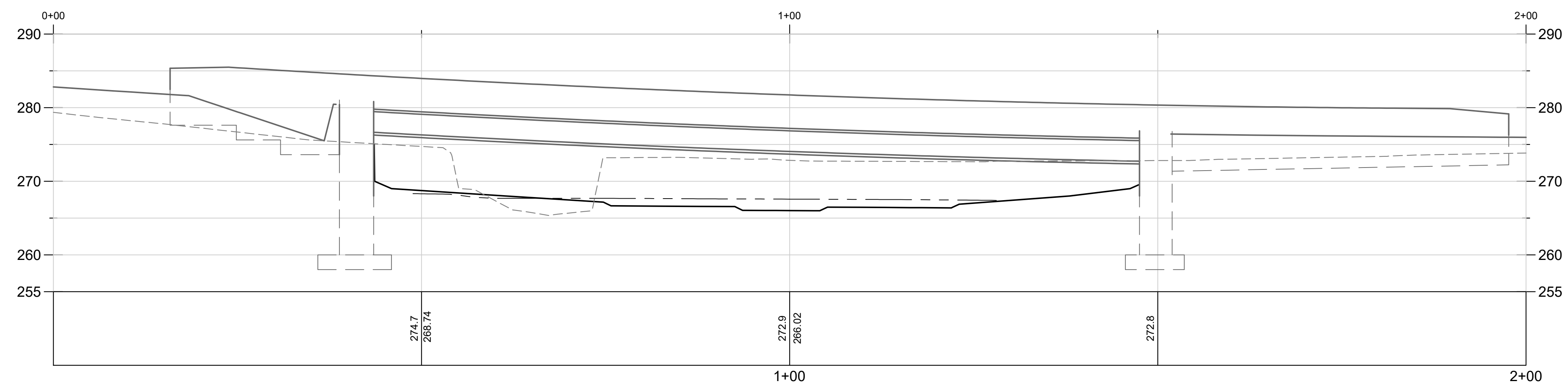
36TH ST NE NORTH EDGE, LOOKING UPSTREAM/NORTH

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



36TH ST NE CL, LOOKING UPSTREAM/NORTH

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



36TH ST NE SOUTH EDGE, LOOKING UPSTREAM/NORTH

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



CATHERINE CREEK BRIDGE REPLACEMENT
 30% SUBMITTAL
 CITY OF LAKE STEVENS
 BRIDGE CROSSING PROFILES
 STREAM AND FLOODPLAIN RESTORATION
 WA
 LAKE STEVENS

NO.	DATE	REVISION	REVIEWED BY	DATE	BY

PRELIMINARY



CHECKED BY: CHECKED BY
 DESIGNED BY: DESIGNED BY
 DRAWN BY: CPM

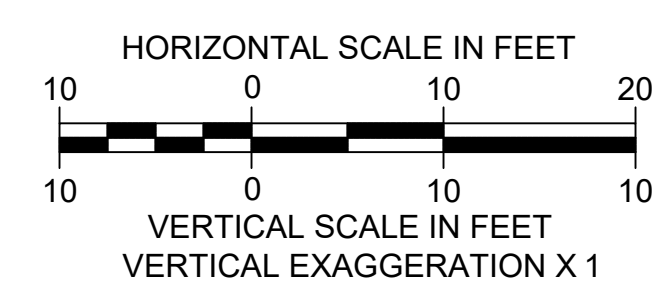
FIRST SUBMITTAL DATE: 3/02/26

PROJECT NO.
LAST0002083

SHEET NO.
ST06

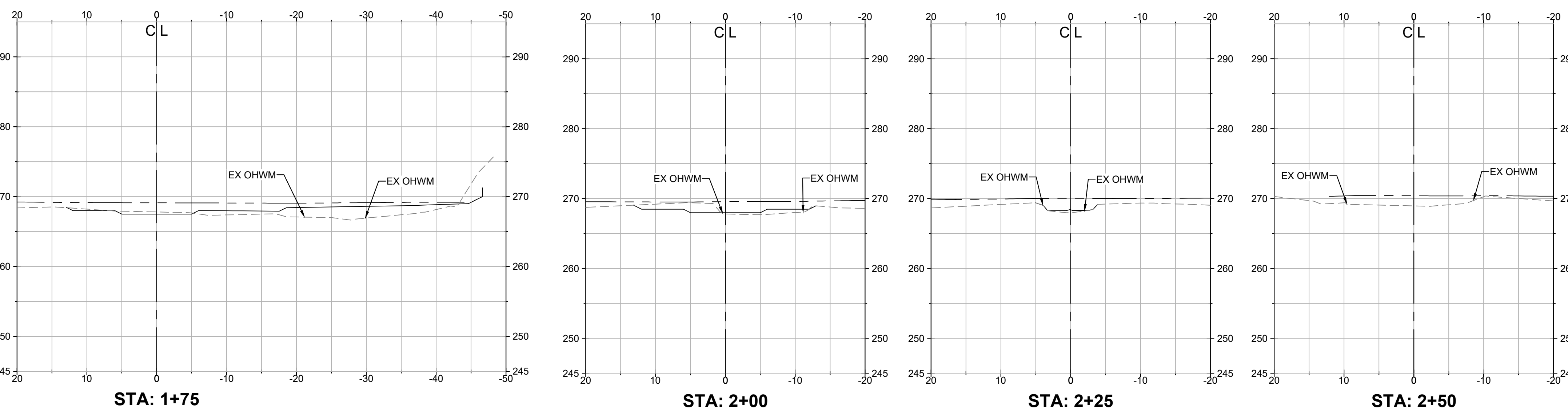
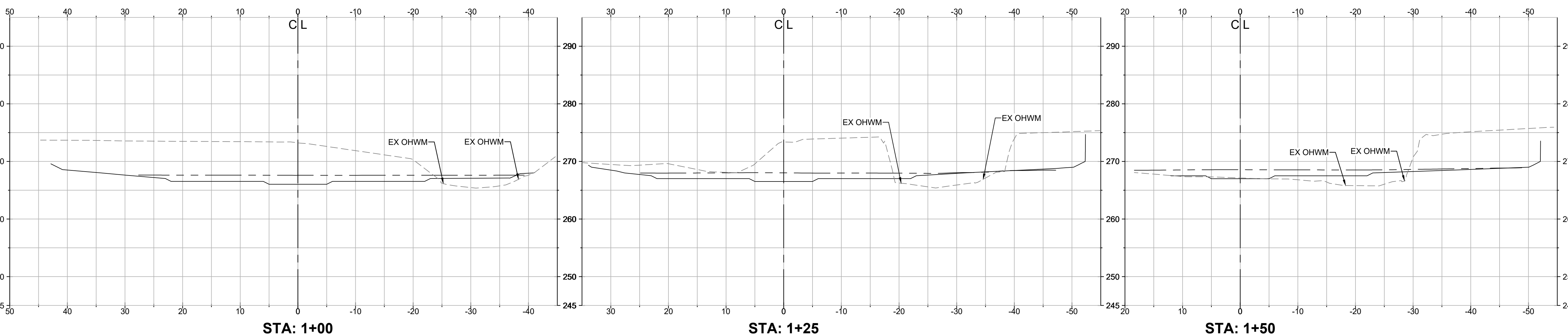
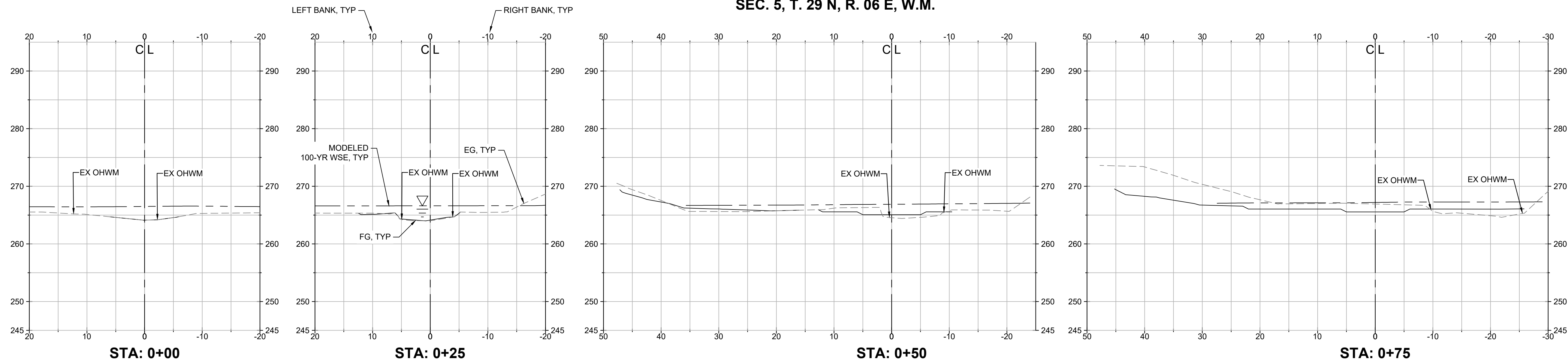
BRIDGE CROSSING PROFILE NOTES

- SEE 1/ST08 FOR TYPICAL CHANNEL SECTION THROUGH BRIDGE.
- EXISTING CHANNEL POSITION AND ELEVATION UNDER THE BRIDGE ARE ESTIMATED BASED ON INTERPOLATION FROM UPSTREAM AND DOWNSTREAM GRADES PROVIDED BY WILSON (2020).



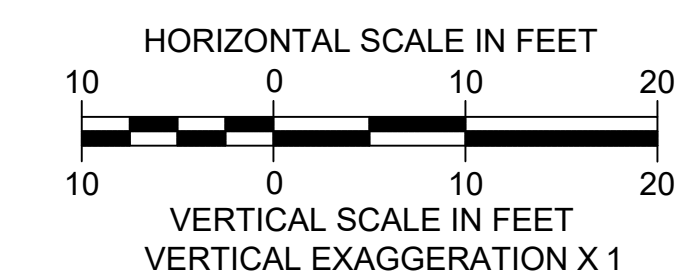
Plot Date: 3/8/2026 4:39 PM
 Save Date: 3/8/2026 4:34 PM
 By: Chuck Marston
 By: Omar Staffle: O:\proj\2025\25-08605-000\CAD\Sheet\Grading.dwg

SEC. 5, T. 29 N, R. 06 E, W.M.



SECTION NOTE

- 1. SEE 3/S08 FOR TYPICAL CHANNEL SECTION.



CATHERINE CREEK BRIDGE REPLACEMENT
 30% SUBMITTAL
 CITY OF LAKE STEVENS
 SECTIONS
 STREAM AND FLOODPLAIN RESTORATION
 WA
 LAKE STEVENS

NO.	DATE	REVISION	REVIEWED BY	DATE

PRELIMINARY



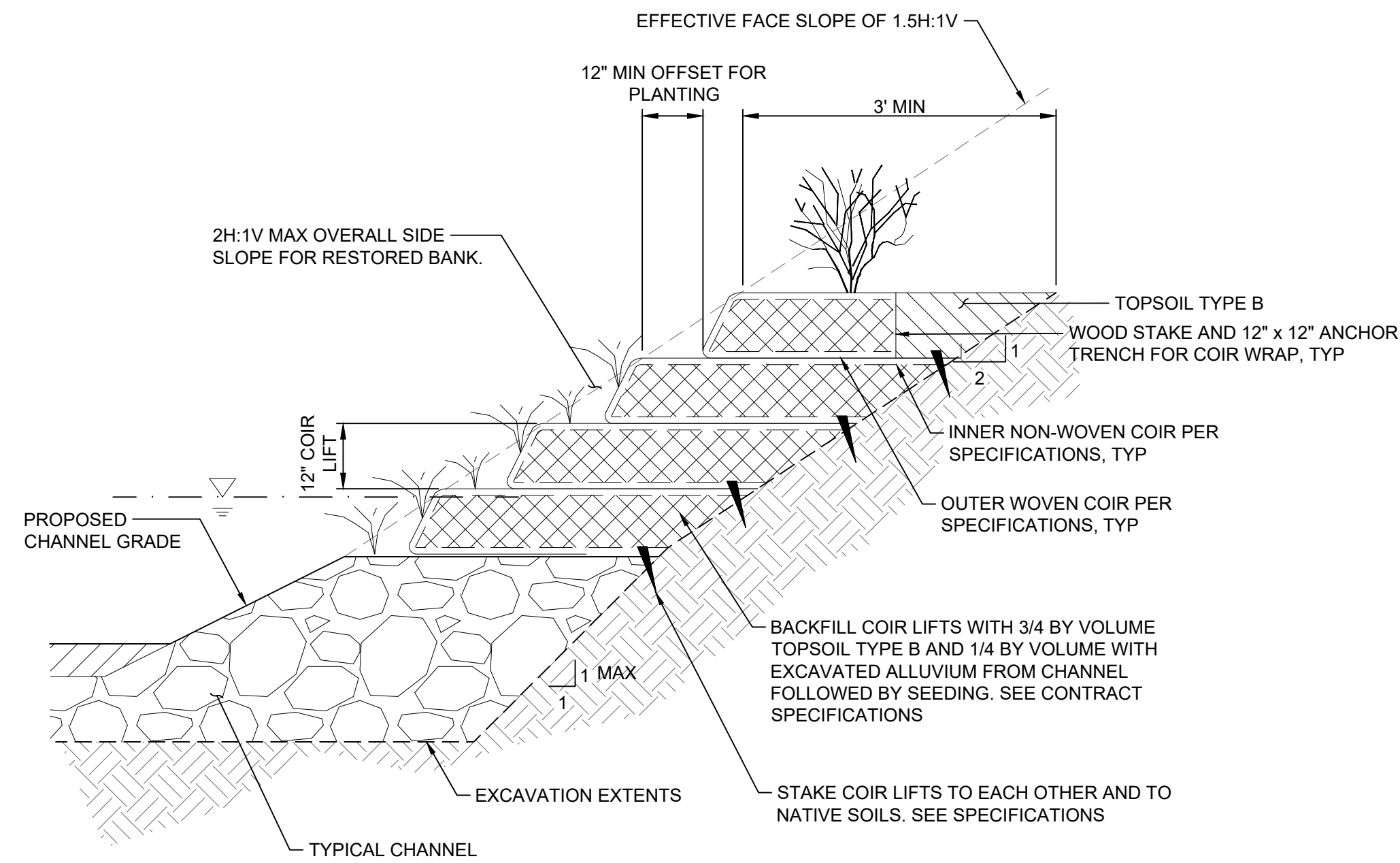
CHECKED BY: CHECKED BY:
DESIGNED BY: DESIGNED BY:
DRAWN BY: CPM

FIRST SUBMITTAL DATE: 3/02/26

PROJECT NO.
LAST0002083

SHEET NO.
ST07

Plot Date: 3/8/2026 4:39 PM
 Save Date: 3/8/2026 4:34 PM
 By: Chuck Marston
 By: Chansuffie: O:\proj\Y2025\25-08605-000\CAD\Sheet\Grading.dwg

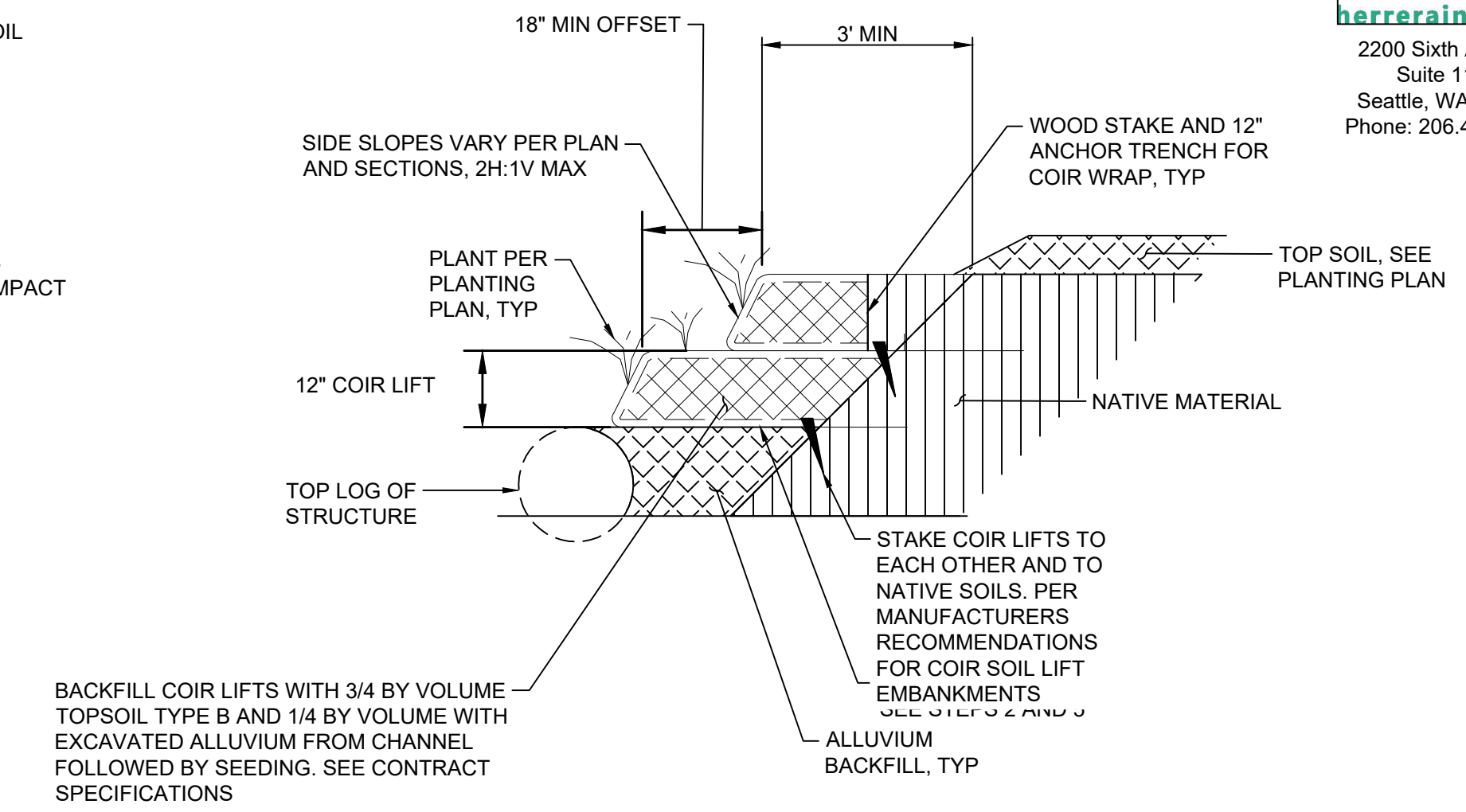


DETAIL - BANK STABILIZATION FOR GRADED AREAS
SCALE: N.T.S.

1
ST01

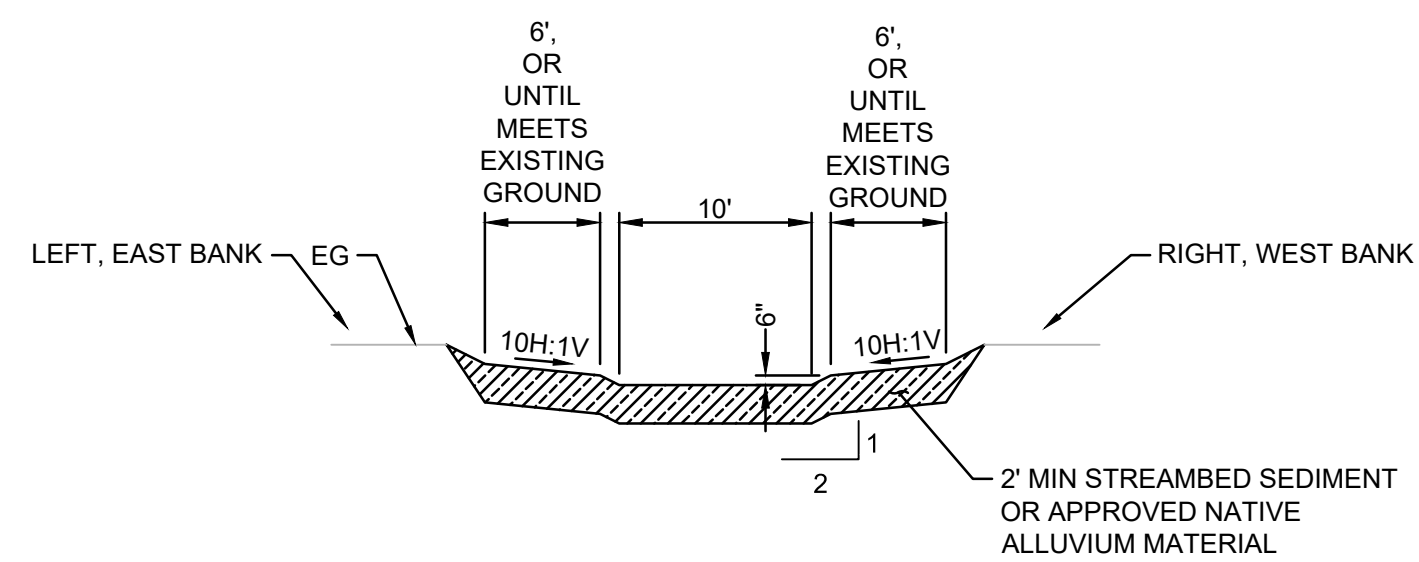
COIR WRAP PREPARATION
(SEE SPECIFICATIONS)

- STEP 1**
- OVEREXCAVATE TO PLACE COIR WRAP SOIL LIFTS
 - PROTECT SUBGRADE FROM FOOT TRAFFIC AND CONSTRUCTION ACTIVITIES THAT COULD CAUSE SOIL DISTURBANCE OR BANK SETTLEMENT PRIOR TO COIR PLACEMENT
- STEP 2**
- PLACE OUTER WOVEN COIR FOR THE BOTTOM OF THE LIFT
 - PLACE INNER NON-WOVEN COIR
 - STAKE COIR FABRIC TO NATIVE SOIL BELOW LIFT
- STEP 3**
- INSTALL FORM (IF CONTRACTOR CHOOSES) TO HOLD COIR WRAP AND SOIL TO DESIGN DIMENSIONS
 - PLACE 12" HIGH LAYER OF SOIL COMPOSED OF TOPSOIL TYPE B AMENDED WITH ALLUVIUM AND COMPACT PER SPECIFICATIONS
- STEP 4**
- PLACE SEED MIX PER PLANTING PLAN AND SPECIFICATIONS
- STEP 5**
- WRAP OUTER WOVEN COIR AND INNER NON-WOVEN COIR AROUND SOIL LIFT TO ENCASE THE LIFT
- STEP 6**
- STAKE PER DETAIL



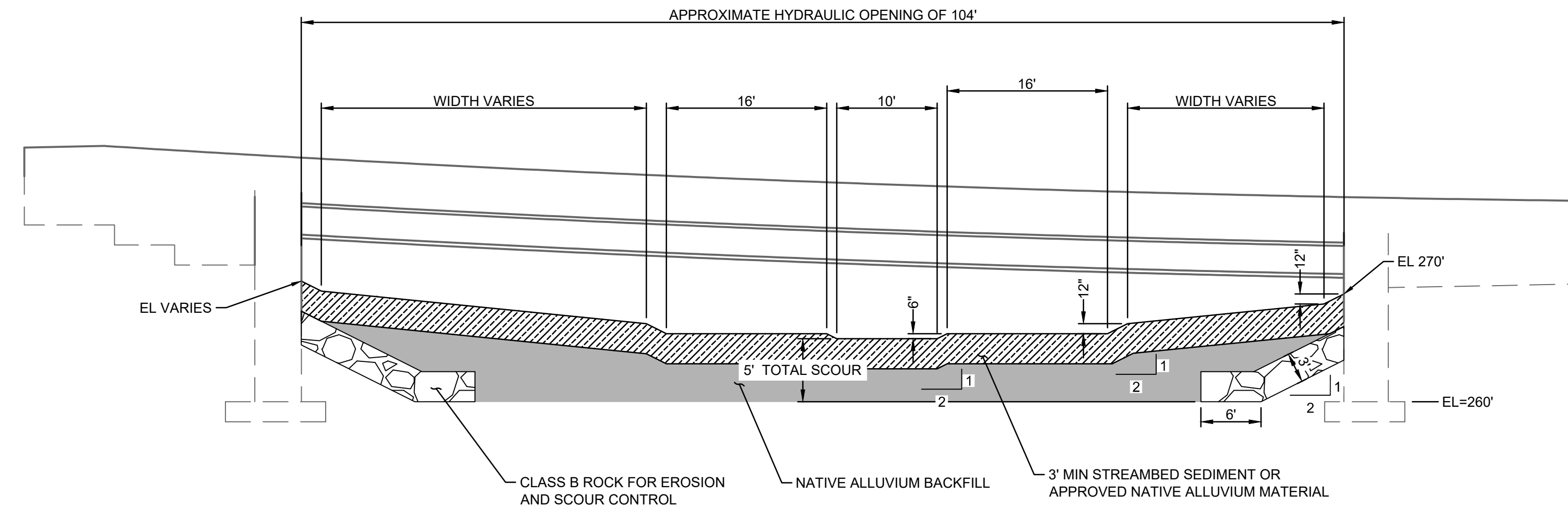
DETAIL - BANK STABILIZATION ABOVE ELS
SCALE: N.T.S.

2
ST01



DETAIL - TYPICAL CHANNEL SECTION
SCALE: N.T.S.

3
ST07



DETAIL - TYPICAL CHANNEL SECTION THROUGH BRIDGE
SCALE: N.T.S.

4
ST06

CATHERINE CREEK BRIDGE REPLACEMENT
30% SUBMITTAL

CITY OF LAKE STEVENS
STREAM AND FLOODPLAIN RESTORATION

LAKE STEVENS WA

REVIEWED BY: REVIEW BY: DATE: DATE: BY: BY: CK

PRELIMINARY

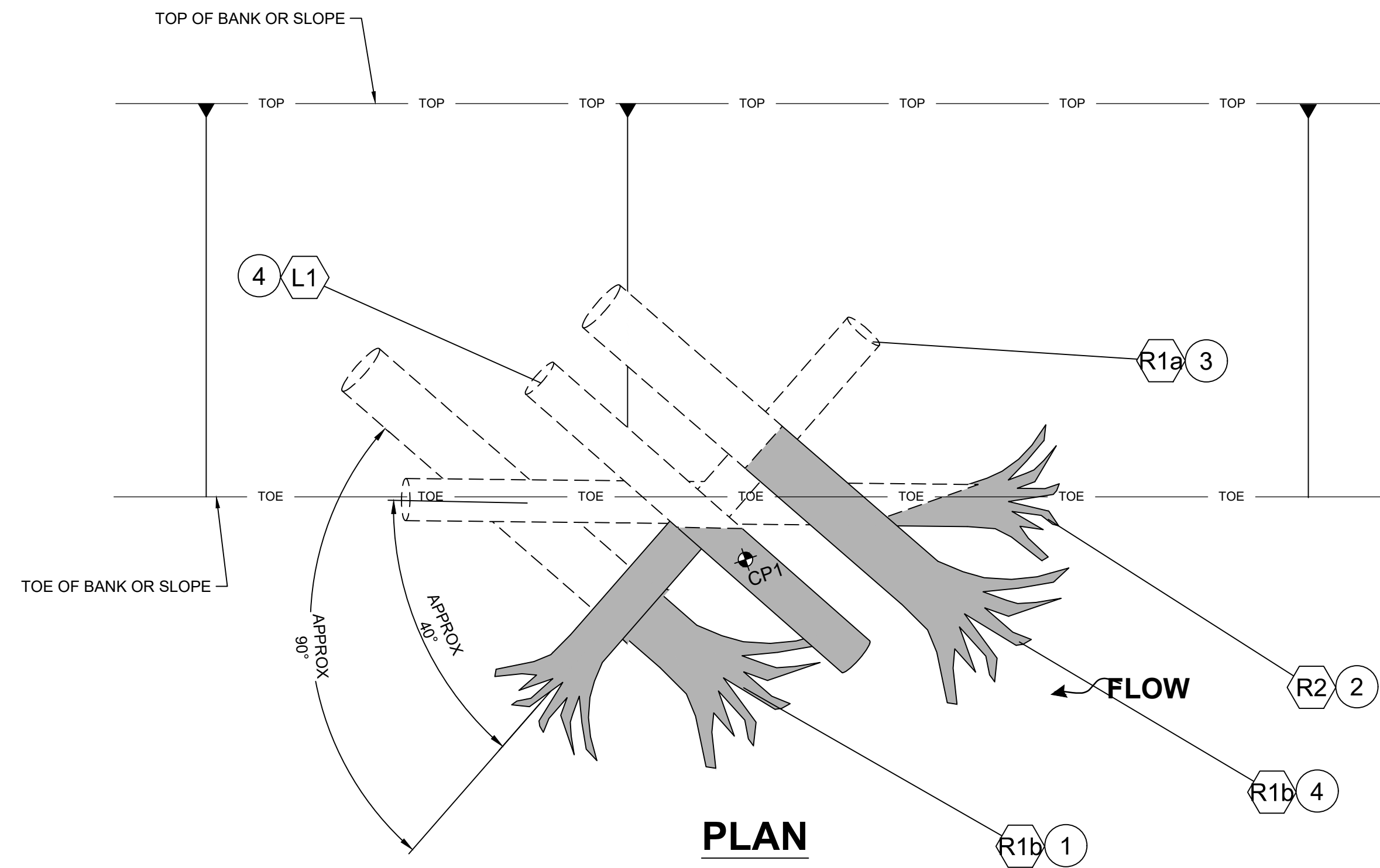


CHECKED BY: CHECKED BY
DESIGNED BY: DESIGNED BY
DRAWN BY: CPM

FIRST SUBMITTAL DATE: 3/02/26

PROJECT NO.
LAST0002083

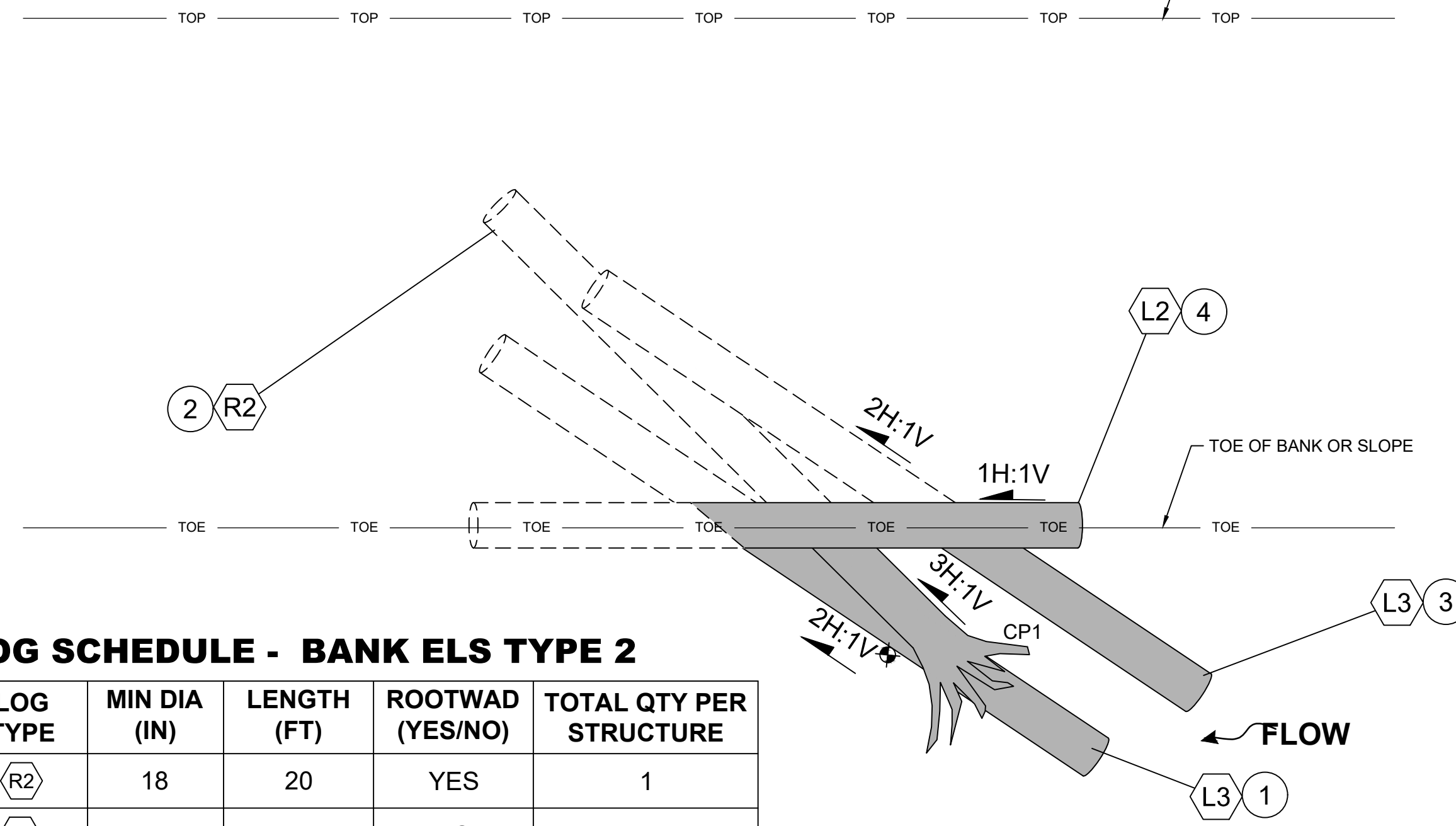
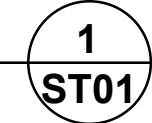
SHEET NO.
ST08



LOG SCHEDULE - BANK ELS TYPE 1

LOG TYPE	MIN DIA (IN)	LENGTH (FT)	ROOTWAD (YES/NO)	TOTAL QTY PER STRUCTURE
R1a	18	15	YES	1
R1b	24	15	YES	2
R2	18	20	YES	1
L1	18	15	NO	1
1	DENOTES LOG PLACEMENT SEQUENCE			

DETAIL - BANK ELS TYPE 1
SCALE: N.T.S.

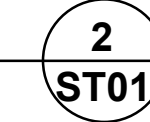


LOG SCHEDULE - BANK ELS TYPE 2

LOG TYPE	MIN DIA (IN)	LENGTH (FT)	ROOTWAD (YES/NO)	TOTAL QTY PER STRUCTURE
R2	18	20	YES	1
L2	18	20	NO	1
L3	18	25	NO	2
1	DENOTES LOG PLACEMENT SEQUENCE			

PLAN

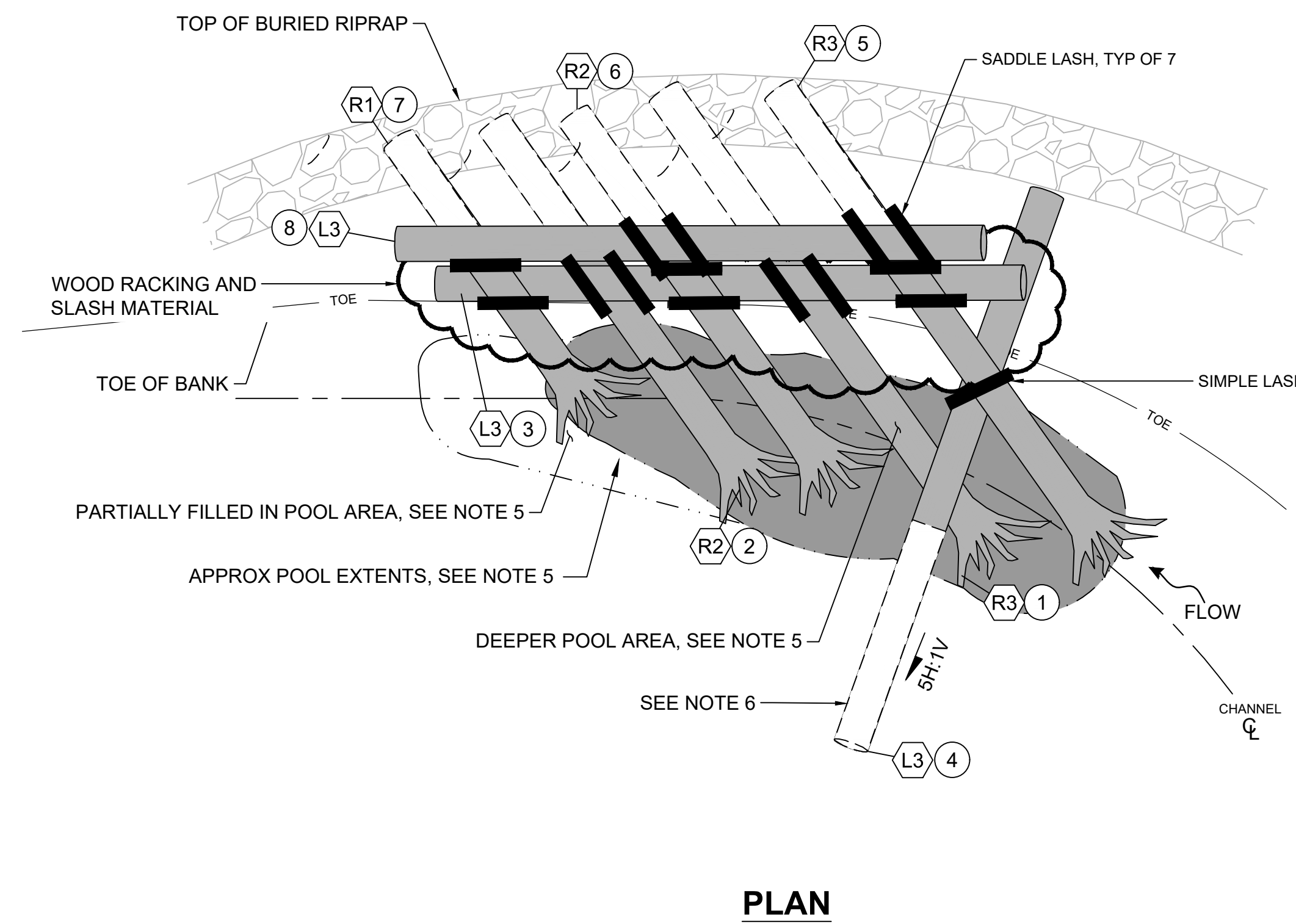
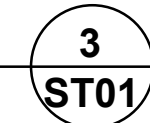
DETAIL - BANK ELS TYPE 2
SCALE: N.T.S.



LOG SCHEDULE - BANK ELS TYPE 3

LOG TYPE	MIN DIA (IN)	LENGTH (FT)	ROOTWAD (YES/NO)	TOTAL QTY PER STRUCTURE
R1	18	15	YES	1
R2	18	20	YES	2
R3	18	25	YES	2
L3	18	25	NO	3
1	DENOTES LOG PLACEMENT SEQUENCE			

DETAIL - BANK ELS TYPE 3
SCALE: N.T.S.



PLAN

WA

**CATHERINE CREEK BRIDGE REPLACEMENT
30% SUBMITTAL**

**CITY OF LAKE STEVENS
ENGINEERED LOG STRUCTURES 1
STREAM AND FLOODPLAIN RESTORATION**

LAKE STEVENS

NO.	DATE	REVISION	REVIEW BY	DATE	BY/CK

PRELIMINARY



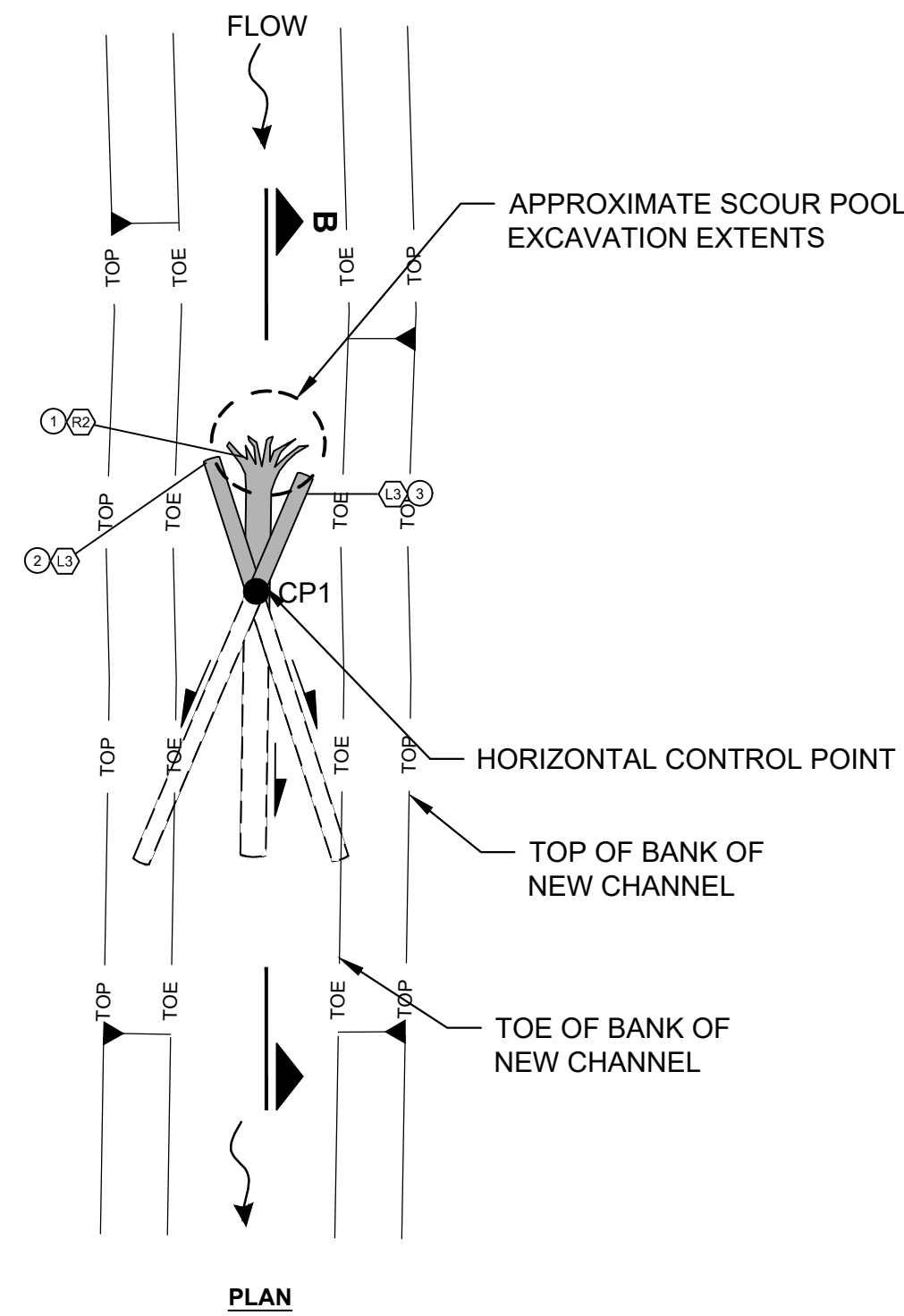
CHECKED BY: _____
DESIGNED BY: _____
DRAWN BY: CPM

FIRST SUBMITTAL DATE: 3/02/26

PROJECT NO.
LAST0002083

SHEET NO.

ST09

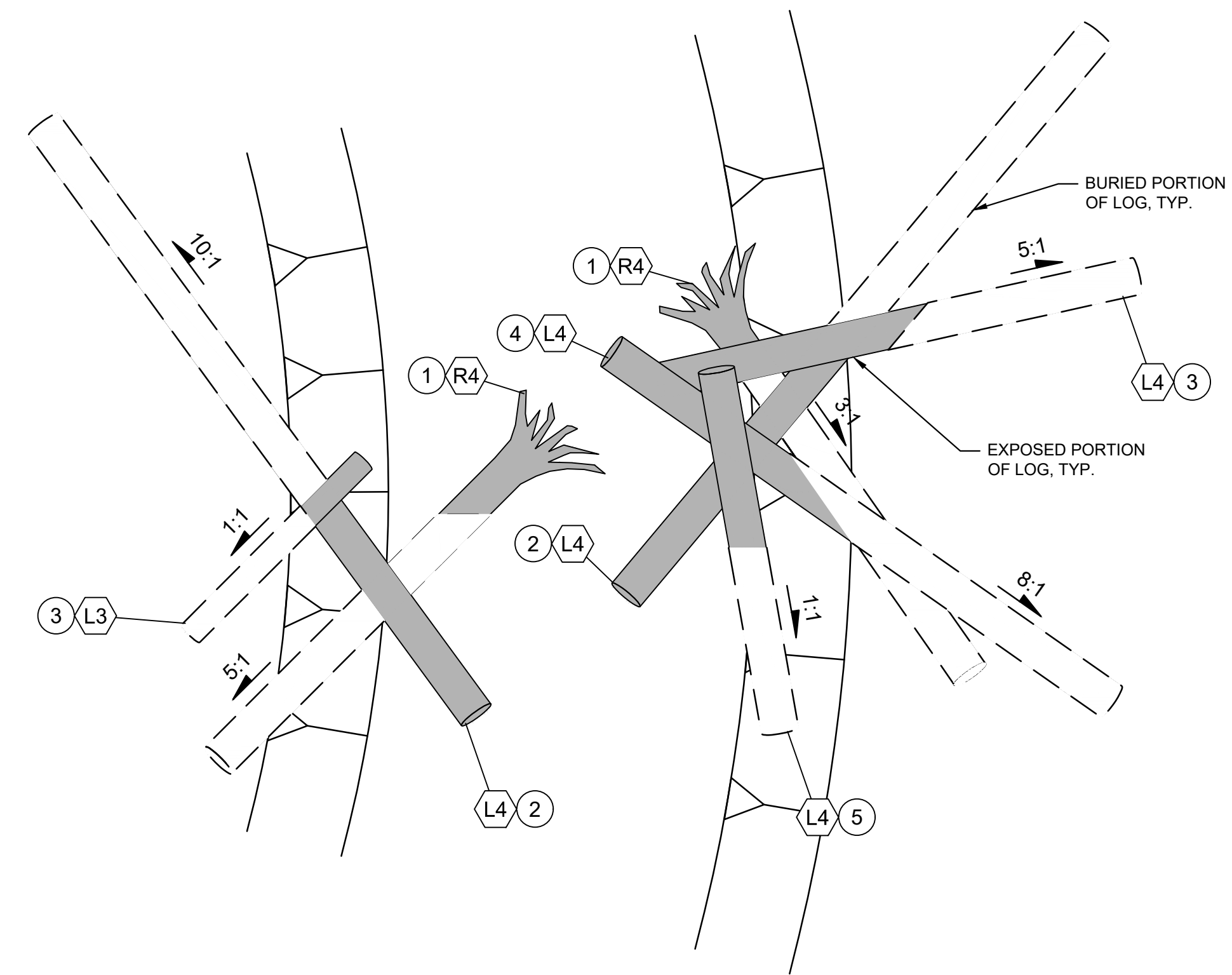


**LOG SCHEDULE - INSTREAM HABITAT
ELS TYPE 1**

LOG TYPE	MIN DIA (IN)	LENGTH (FT)	ROOTWAD (YES/NO)	TOTAL QTY PER STRUCTURE
R2	18-24	20	YES	1
L3	18-24	25	NO	2
1	DENOTES LOG PLACEMENT SEQUENCE			

**DETAIL - INSTREAM HABITAT
ELS TYPE 1**
SCALE: N.T.S.

1
ST01



**LOG SCHEDULE - INSTREAM HABITAT ELS
TYPE 2**

LOG TYPE	MIN DIA (IN)	LENGTH (FT)	ROOTWAD (YES/NO)	TOTAL QTY PER STRUCTURE
R4	18	30	YES	2
L3	12	25	NO	1
L4	18	30	NO	5
1	DENOTES LOG PLACEMENT SEQUENCE			

**DETAIL - INSTREAM HABITAT
ELS TYPE 2**
SCALE: N.T.S.

2
ST01

Plot Date: 3/8/2026 4:40 PM
Save Date: 3/8/2026 4:34 PM
By: Chuck Marston
By: Chmarst\file: O:\proj\Y2025\25-08605-000\CAD\Sheet\Details-ELS.dwg

WA

**CATHERINE CREEK BRIDGE REPLACEMENT
30% SUBMITTAL**

**CITY OF LAKE STEVENS
ENGINEERED LOG STRUCTURES 2
STREAM AND FLOODPLAIN RESTORATION**

LAKE STEVENS

REVIEWED BY	DATE	REVISION	BY	CHK

PRELIMINARY



CHECKED BY: CHECKED BY
DESIGNED BY: DESIGNED BY
DRAWN BY: CPM

FIRST SUBMITTAL DATE: 3/02/26

PROJECT NO.
LAST00002083

SHEET NO.
ST10

SEC. 5, T. 29 N, R. 06 E, W.M.



CONCEPT PLANT SCHEDULE

	RIPARIAN FOREST PLANTING - 100% ASSUMING CLEARING AND REPLANTING OF 100% OF TOTAL AREA.	1,774 SF
	RIPARIAN FOREST PLANTING - 50% ASSUMING CLEARING AND REPLANTING OF 50% OF TOTAL AREA.	366 SF
	ROADSIDE PLANTING - 100% ASSUMING CLEARING AND REPLANTING OF 100% OF TOTAL AREA.	4,483 SF
	ROADSIDE PLANTING - 50% ASSUMING CLEARING AND REPLANTING OF 50% OF TOTAL AREA.	688 SF
	FORESTED WETLAND PLANTING - 50% ASSUMING CLEARING AND REPLANTING OF 50% OF TOTAL AREA.	7,735 SF

RIPARIAN FOREST PLANTING LIST:

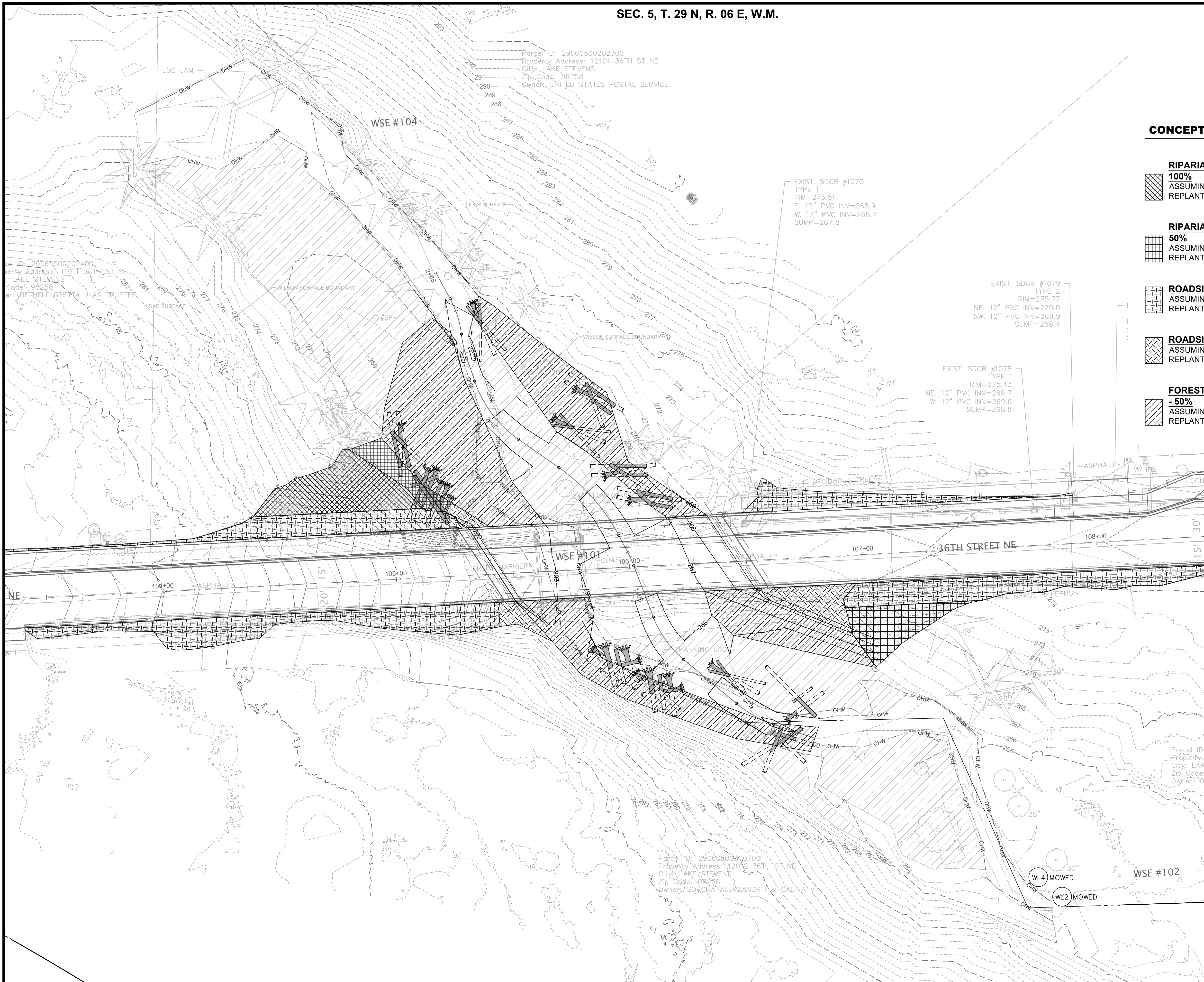
- ACER CIRCINATUM / VINE MAPLE
- ACER MACROPHYLLUM / BIG LEAF MAPLE
- ALNUS RUBRA / RED ALDER
- GAULTHERIA SHALLON / SALAL
- MAHONIA NERVOSA / DWARF OREGON GRAPE
- OEMLERIA CERASIFORMIS / INDIAN PLUM
- PHYSOCARPUS CAPITATUS / PACIFIC NINEBARK
- PICEA SITCHENSIS / SITKA SPRUCE
- POLYSTICHUM MUNITUM / WESTERN SWORD FERN
- POPULUS BALSAMIFERA SSP. TRICHOCARPA / BLACK COTTONWOOD
- PSEUDOTSUGA MENZIESII / DOUGLAS FIR
- RUBUS SPECTABILIS / SALMONBERRY
- SAMBUCUS RACEMOSA / RED ELDERBERRY
- SYMPHORICARPOS ALBUS / COMMON WHITE SNOWBERRY
- TELLIMA GRANDIFLORA / FRINGECUP
- THUJA PLICATA / WESTERN REDCEDAR
- TSUGA HETEROPHYLLA / WESTERN HEMLOCK
- TOLMIEA MENZIESII / YOUTH-ON-AGE

ROADSIDE PLANTING LIST:

- LONICERA INVOLUCRATA / TWINBERRY
- MAHONIA NERVOSA / DWARF OREGON GRAPE
- PHYSOCARPUS CAPITATUS / PACIFIC NINEBARK
- POLYSTICHUM MUNITUM / WESTERN SWORD FERN
- SAMBUCUS RACEMOSA / RED ELDERBERRY
- SYMPHORICARPOS ALBUS / COMMON WHITE SNOWBERRY
- TELLIMA GRANDIFLORA / FRINGECUP
- TOLMIEA MENZIESII / YOUTH-ON-AGE

FORESTED WETLAND PLANTING LIST:

- CAREX OBNUPTA / SLOUGH SEDGE
- CORNUS SERICEA / RED OSIER DOGWOOD
- ELEOCHARIS PALUSTRIS / COMMON SPIKERUSH
- GLYCERIA ELATA / TALL MANNAGRASS
- SALIX SITCHENSIS / SITKA WILLOW
- SCRIPUS MICROCARPUS / SMALL-FRUITED BULLRUSH
- SPIRAEA DOUGLASII / HARDHACK



WA
 LAKE STEVENS
 CITY OF LAKE STEVENS
 30% SUBMITTAL
 CATHERINE CREEK BRIDGE REPLACEMENT
 PLANTING PLAN
 STREAM AND FLOODPLAIN RESTORATION

REVIEWED BY:	DATE:	REVISION:	DATE:
BY:	BY:	NO.	BY:

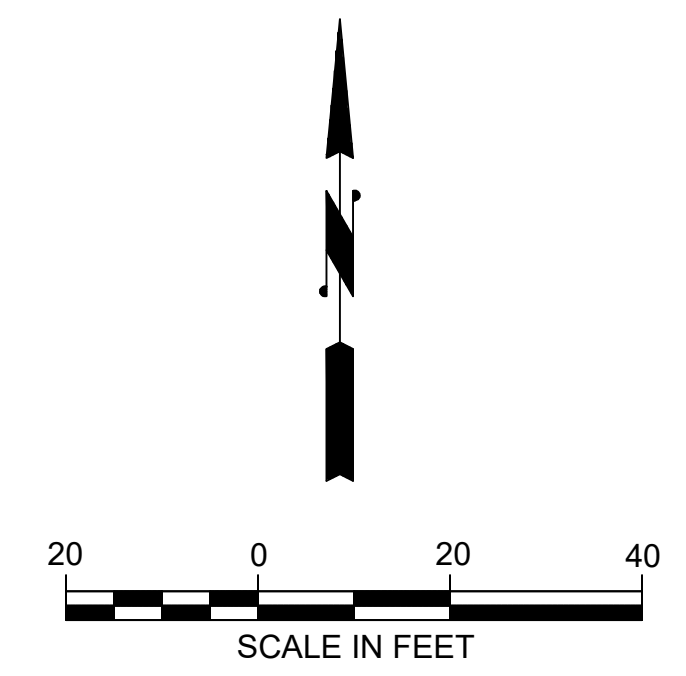
PRELIMINARY



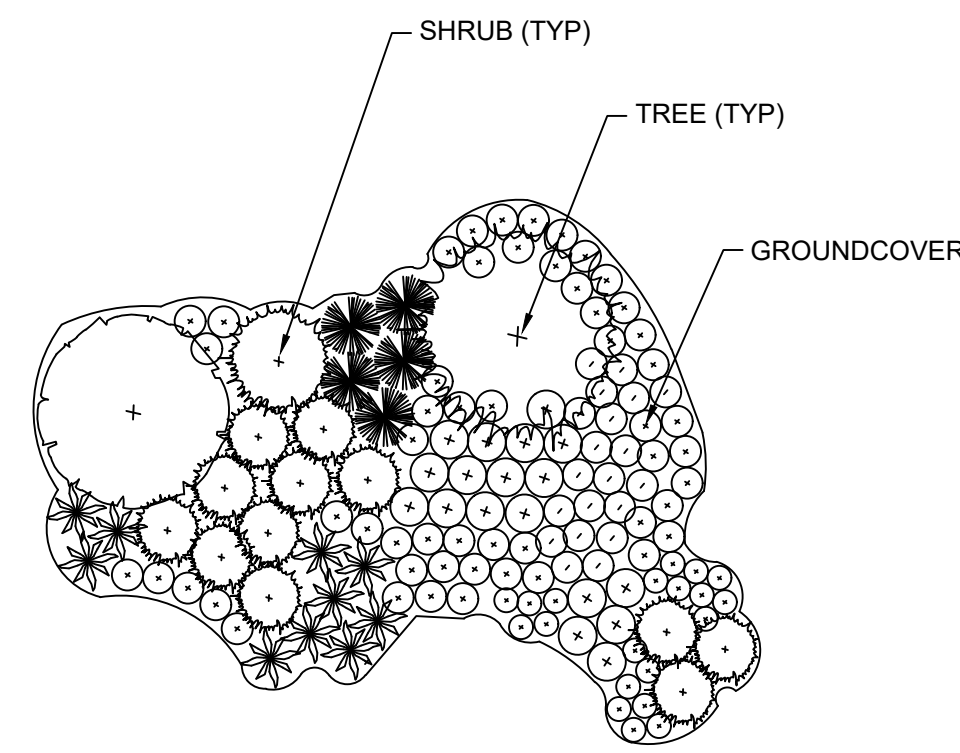
CHECKED BY: KF
 DESIGNED BY: LH
 DRAWN BY: CPM

FIRST SUBMITTAL DATE: 3/02/26
 PROJECT NO.
LAST0002083

SHEET NO.
ST11

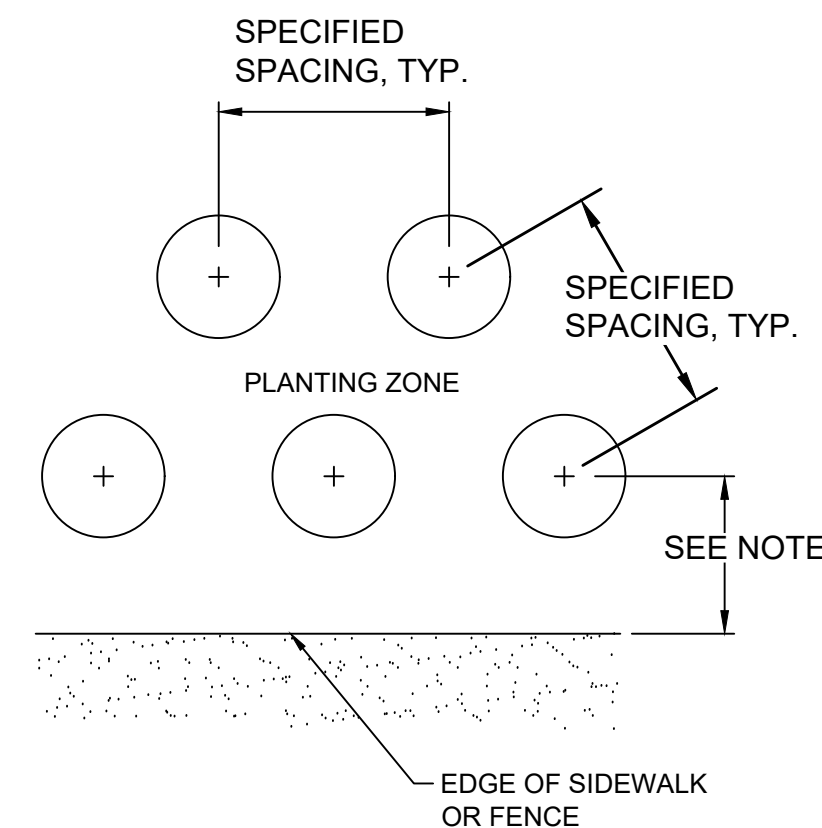


Plot Date: 3/9/2026 4:41 PM
 Save Date: 3/9/2026 4:33 PM
 By: Chuck Marston
 File: O:\proj\Y2025\25-08605-000\CAD\Sheet\Planting.dwg



PLANTING LAYOUT NOTES:

1. PLANT GROUNDCOVERS, SHRUBS, AND TREES WITHIN AREAS SHOWN ON PLAN. GROUNDCOVERS AND SHRUBS SHALL BE IN CLUSTERS OF UNEVEN NUMBERS (E.G. THREE, FIVE, SEVEN, ETC.)
2. PLANTS SHALL BE ARRANGED SO THAT AS THEY MATURE, THEY GROW IN TO MASSINGS AND FULLY COVER THE SOIL SURFACE.
3. PROVIDE A 3 FOOT RADIUS MULCH-ONLY AREA AROUND EACH TREE AND A 2 FOOT RADIUS MULCH-ONLY AREA AROUND EACH SHRUB.

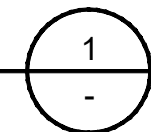


NOTES:

1. PLANT SHRUBS NO CLOSER THAN 2.5 FEET FROM SIDEWALK AND IMPERVIOUS AREAS.
2. PLANT TREES NO CLOSER THAN 10 FEET FROM SIDEWALK AND IMPERVIOUS AREAS.

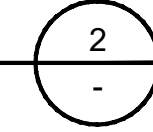
DETAIL - PLANTING LAYOUT

SCALE: NTS



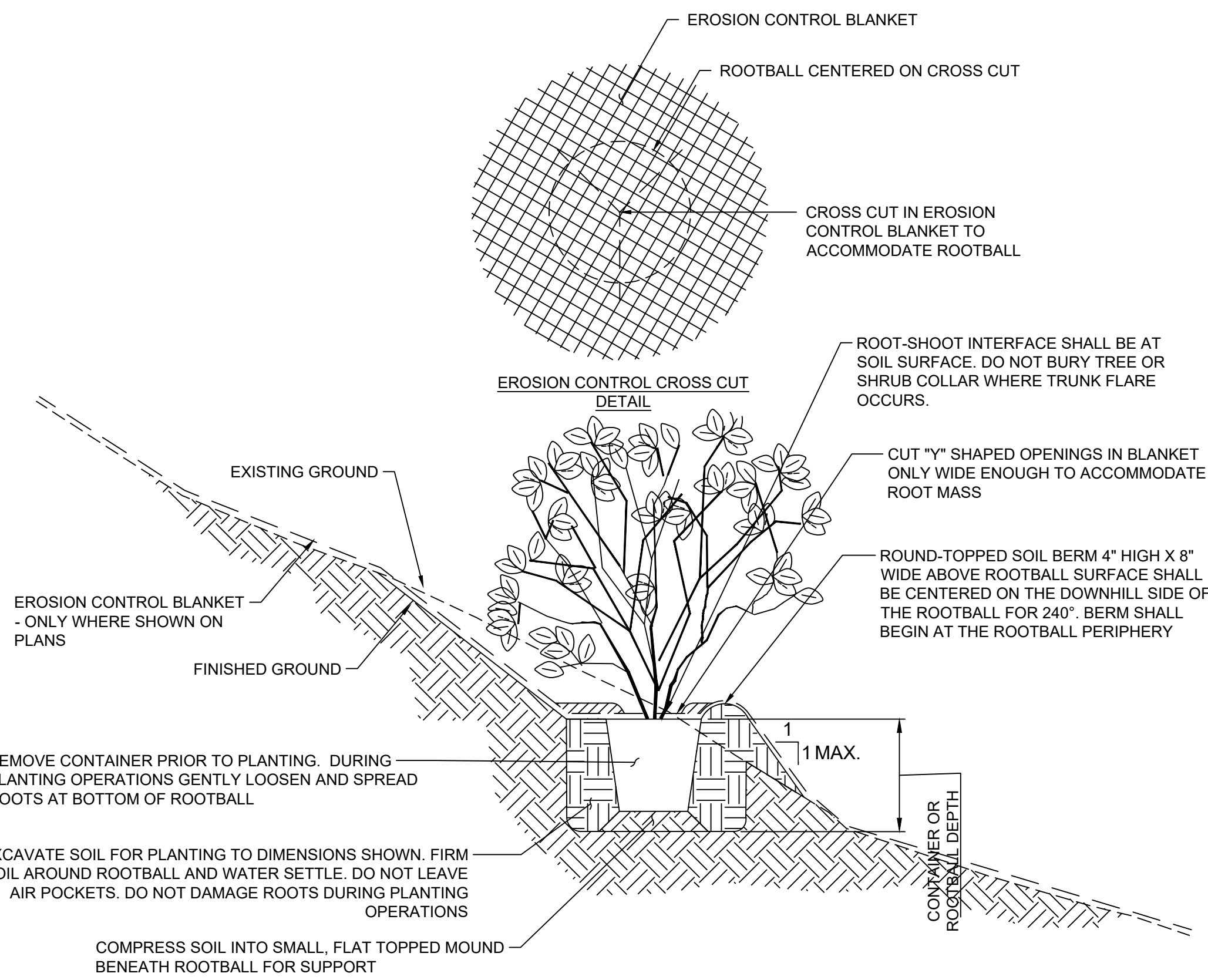
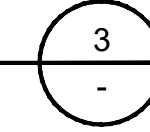
DETAIL - PLANT SPACING

SCALE: NTS



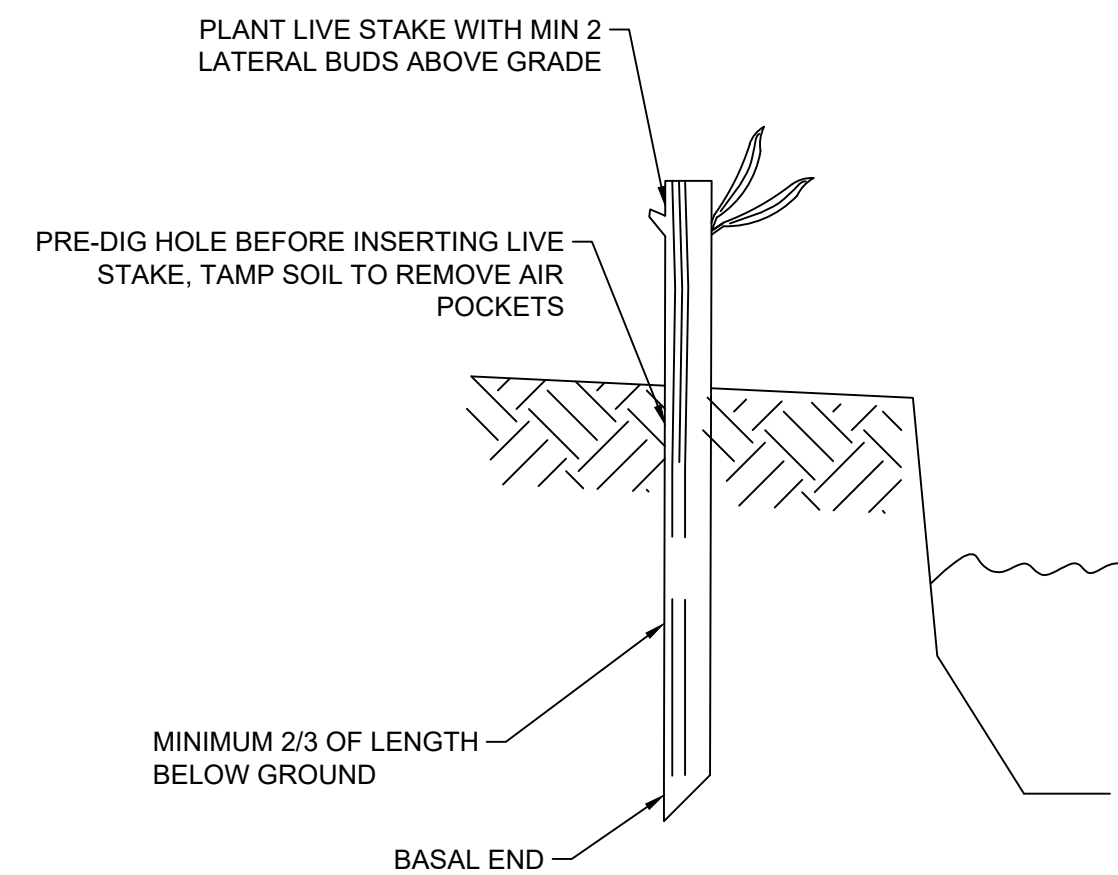
DETAIL - CONTAINER OR ROOT CONTROL BAG PLANTING ON SLOPE

SCALE: NTS



PLANTING NOTES:

1. WEED CLEARING SHALL OCCUR PRIOR TO EARTHWORK TO MINIMIZE THE SPREAD OF INVASIVE VEGETATION. ALL CLEARING AND GRUBBING OF INVASIVE SPECIES SHALL INCLUDE THE REMOVAL OF STEMS, ROOTS, AND DEBRIS TO A DEPTH OF 6 INCHES. NO HERBICIDE/PESTICIDE SHALL BE USED WITHIN PROJECT AREA.
2. SITE PREPARATION AND FINAL GRADING TO BE APPROVED BY ENGINEER PRIOR TO PLANT INSTALLATION.
3. THE PROJECT AREA WITHIN PROJECT LIMITS SHALL BE MAINTAINED IN A WEED FREE CONDITION UNTIL THE END OF THE PLANT ESTABLISHMENT PERIOD.
4. BOUNDARIES BETWEEN PLANTING ZONES TO BE FLAGGED AND APPROVED BY ENGINEER PRIOR TO PLANT INSTALLATION.
5. EXISTING AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND NOT SHOWN TO BE RE-VEGETATED ON THESE PLANS SHALL BE RESTORED AS DIRECTED BY THE LANDSCAPE ARCHITECT AT THE CONTRACTOR'S EXPENSE.
6. FALL PLANTING SHALL TAKE PLACE IN LATE SEPTEMBER OR OCTOBER. WINTER PLANTING SHALL TAKE PLACE BETWEEN DECEMBER AND FEBRUARY, AS PLANT MATERIAL IS AVAILABLE AND SITE CONDITIONS ALLOW.
7. ALL PLANT MATERIAL SHALL BE GROWN FROM REGIONALLY APPROPRIATE SEED. CONTAINER MATERIAL SHALL BE NURSERY GROWN PER ANSI STANDARDS (ANSI Z60.1-2014). PLANT MATERIAL SHALL BE SUPPLIED BY COMMERCIAL NURSERIES THAT SPECIALIZE IN NATIVE PLANTS.
8. ALL PLANT MATERIAL TO BE INSPECTED UPON DAY OF DELIVERY. ALL PLANTS WITH DAMAGED ROOTS, LEADERS, OR BRANCHES SHALL BE REJECTED. NO ROOTBOUND, J-ROOTED, OR DISEASED CONTAINER STOCK SHALL BE ACCEPTED.
9. PLANTS SHALL BE TAGGED OR MARKED FOR IDENTIFICATION WHEN DELIVERED.
10. PLANT SUBSTITUTIONS MUST BE REQUESTED A MINIMUM OF 30 DAYS PRIOR TO PLANT INSTALLATION AND ARE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT.
11. KEEP PLANTS SHADED AND PROTECTED UNTIL THE ACTUAL TIME OF PLANTING. DO NOT LET PLANT MATERIAL SIT IN DIRECT AFTERNOON SUN OR DRY OUT BEFORE PLANTING.
12. CONTRACTOR TO CREATE SAMPLE LAYOUT FOR EACH PLANTING ZONE AND SAMPLE LAYOUTS TO BE APPROVED BY ENGINEER PRIOR TO PLANT INSTALLATION ACROSS ENTIRE SITE.
13. THOROUGHLY WATER ALL PLANTED AREAS, UNLESS PLANTS ARE INSTALLED IN INUNDATED AREAS OR SATURATED SOILS, IMMEDIATELY AFTER PLANTING. WATER FOR OPTIMAL GROWTH AND HEALTH DURING DRY PERIODS THROUGHOUT PLANT ESTABLISHMENT PERIOD.
14. FORESTED WETLAND PLANTING AREAS SHALL NOT RECEIVE SOIL AMENDMENTS PRIOR TO PLANTING.
15. RIPARIAN FOREST AND ROADSIDE PLANTING AREAS SHALL RECEIVE BIOTIC SOIL AMENDMENTS, USING PROGANICS AT A RATE OF 3,500 POUNDS/ACRE OR EQUIVALENT, BIOPRIME AT A RATE OF 40 POUNDS/ACRE OR EQUIVALENT PRODUCT, AND JUMPSTART AT A RATE OF 1.25 GALLONS PER ACRE OR EQUIVALENT. THE PRODUCTS LISTED ARE AVAILABLE AT PROFILE PRODUCTS. EQUIVALENT SUBSTITUTIONS SHALL BE SUBMITTED FOR APPROVAL AS REQUEST FOR SUBSTITUTIONS TO LANDSCAPE ARCHITECT.

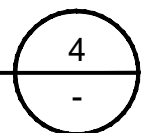


NOTES:

1. LIVE STAKES SHALL HAVE A MINIMUM BASAL END DIAMETER BETWEEN 3/4" TO 1.5".
2. LIVE STAKES SHALL HAVE A MINIMUM OF 6 INCHES OF BASAL ENDS OF LIVE STAKES SOAKED FOR A MINIMUM OF 48 HOURS AND NO LONGER THAN 2 WEEKS PRIOR TO INSTALLATION.

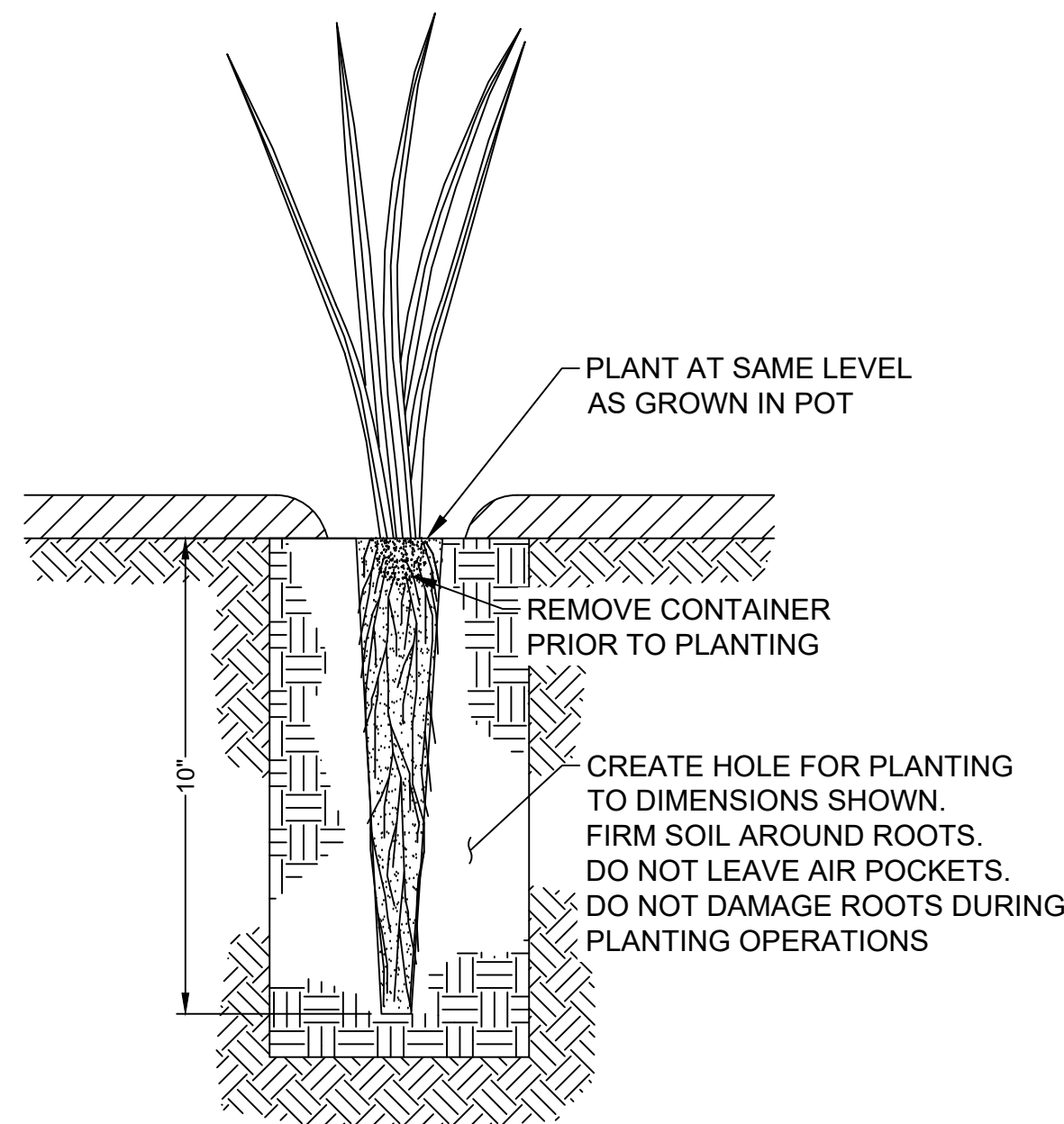
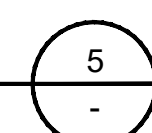
LIVE STAKE PLANTING DETAIL

SCALE: NTS



DETAIL - DEEP ROOTED PLUG

SCALE: NTS



DETAIL - ONE, TWO, AND FIVE GALLON CONTAINER TREE AND SHRUB PLANTING

SCALE: NTS

