

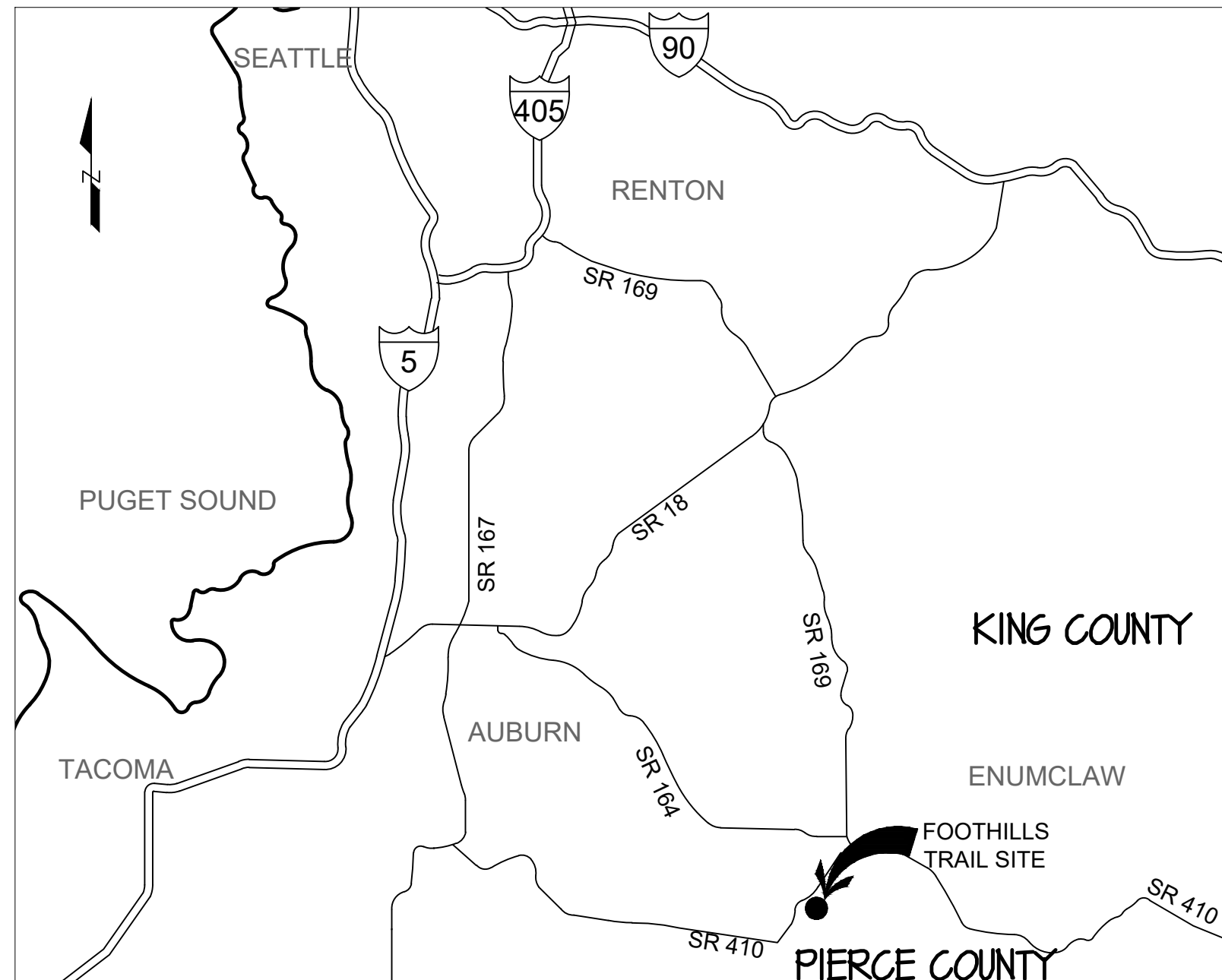
KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS FOOTHILLS TRAIL PHASE II SEGMENT B

KING COUNTY, WASHINGTON

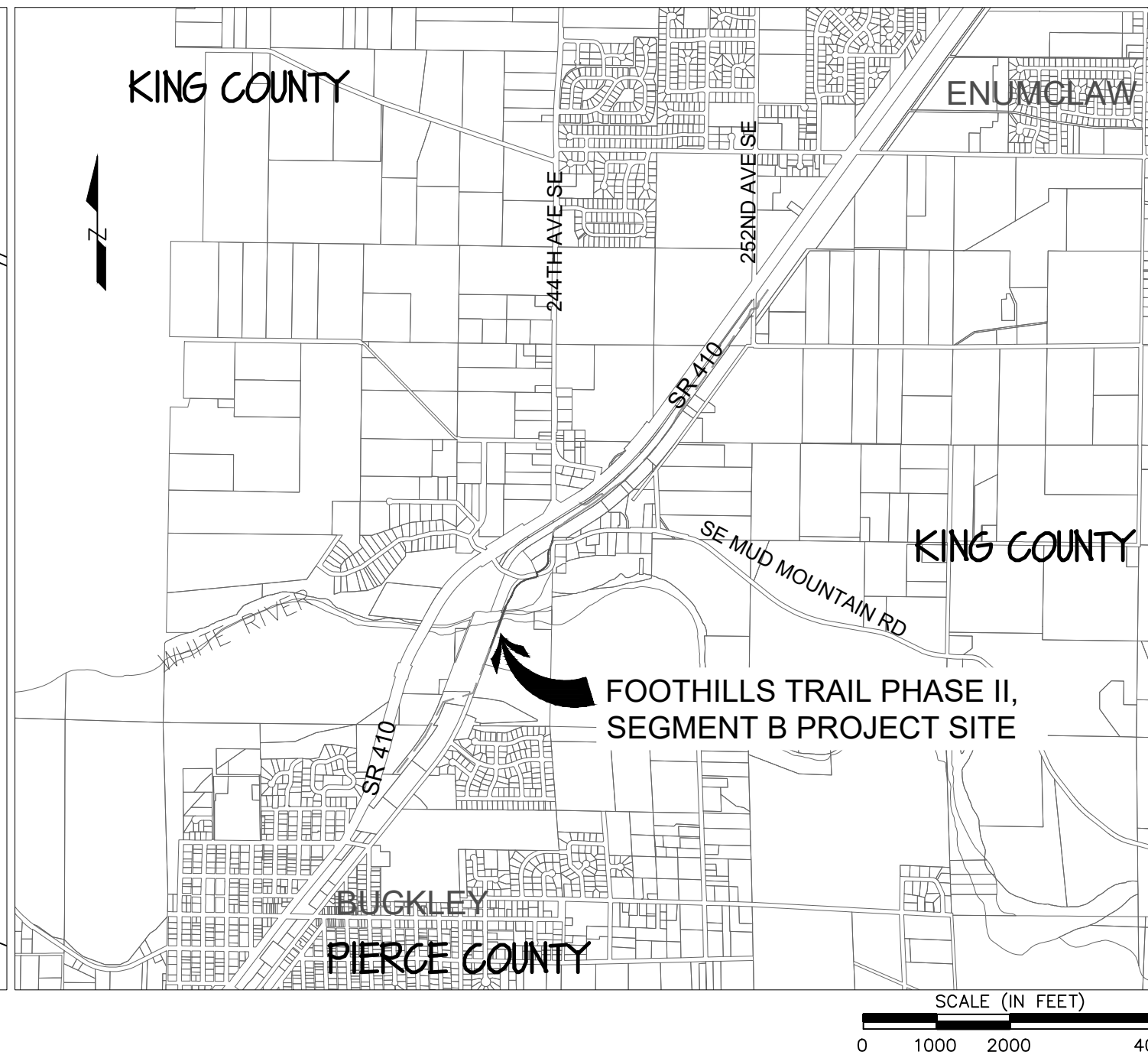
KING COUNTY CONTRACT NO. : E00115E08

HUITT-ZOLLARS PROJECT NO. : 15095305

AREA MAP



PROJECT MAP



PROJECT INFORMATION

PROJECT NAME: FOOTHILLS TRAIL PHASE II SEGMENT B

TAX PARCELS OWNED BY KING COUNTY: 342006-9020, 342006-9086, 342006-9087, 342006-9032, 352006-9074, 642700-0185, 642700-0270

TAX PARCELS OWNED BY OTHERS: 342006-9052 - EASEMENT - REC # xxx
342006-9026 - EASEMENT - REC # 20160720001288
642700-0225 - EASEMENT - REC # 20160805001035

JURISDICTION: KING COUNTY, WA

ZONING: A-35 & RA-10

SHORELINE DESIGNATIONS: AQUATIC, RESOURCE, CONSERVANCY, RURAL & RESIDENTIAL

DISTURBED AREA: 3.0 AC

PROPOSED IMPERVIOUS SURFACE AREA: 24,900 SF (0.57 AC)

VOLUME OF ESTIMATED EXCAVATION: 10,000 CY

VOLUME OF ESTIMATED FILL: 2,300 CY

ROCK ARMOR REMOVAL: 3,000 CY

CONTACTS

APPLICANT/OWNER

KING COUNTY PARKS
201 SOUTH JACKSON ST, ROOM 700
SEATTLE, WA 98104

CONTACT: CHRIS ERICKSON
PHONE: (206) 477-4564

SURVEY

LIN & ASSOCIATES, INC.
901 FIFTH AVENUE, SUITE 1610
SEATTLE, WA 98164

CONTACT: ADOLPH FURTADO, PE
PHONE: (206) 621-1218 EXT. 14

PRIME - CIVIL

HUITT-ZOLLARS
818 STEWART ST, SUITE 1120
SEATTLE, WA 98101

CONTACT: DON HELLING, PE
PHONE: (206) 324-5500

ENVIRONMENTAL

THE WATERSHED COMPANY
1416 NW 46TH STREET, STE 105 PMB 346
KIRKLAND, WA 98033

CONTACT: HUGH MORTENSEN, PWS
PHONE: (425) 822-5242

GEOTECHNICAL

HART CROWSER
3131 ELLIOTT AVE, SUITE 600
SEATTLE, WA 98121

CONTACT: JEFFREY WAGNER, PE
PHONE: (206) 324-9530

CULTURAL RESOURCE

CULTURAL RESOURCE CONSULTANTS
1416 NW 46TH STREET, STE 105 PMB 346
SEATTLE, WA 98107

CONTACT: MARGARET BERGER
PHONE: (206) 855-9020

STRUCTURAL

V+M STRUCTURAL DESIGN, INC.
2212 QUEEN ANN AVENUE N #530
SEATTLE, WA 98109

CONTACT: SCHAUN VALDOVINOS, PE
PHONE: (206) 880-1533

EXELTECH CONSULTING, INC.
8729 COMMERCE PLACE DRIVE NE, SUITE A
LACEY, WA 98516

CONTACT: SAEED JAVIDI, PE
PHONE: (360) 357-8289

DATUM:

HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 / 1991 ADJUSTMENT (NAD 83/91), WASHINGTON NORTH ZONE.

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

PROJECT HORIZONTAL AND VERTICAL CONTROL: SEE SURVEY CONTROL SHEET CS100.



Know what's below.
Call before you dig.

90% SUBMITTAL

Approval of these plans is for construction of road and drainage improvements, site drainage & grading and temporary erosion control in unincorporated King County only. These plans do not authorize any other utility approval or improvements proposed in any State right of way.

Site plan approval is void if the commercial building permit has not been obtained or renewed within two years of approval.

Subdivision plan approval is void if the final plat is not recorded prior to the preliminary plat approval expiration.



King County

Department of Natural Resources and Parks
Parks and Recreation Division
King Street Center, KSC-NR-0700
201 So. Jackson Street, Suite 700
Seattle, Washington 98104
Telephone: (206) 477-4527
Fax: (206) 263-6217

PRO RATA SHARE ASSESSMENT ANALYSIS (County Use Only)

Section	Township	Range	Tax Parcel	Number

Site Location is within the _____ drainage shed(s)
Pro Rata Share Assessment(s) are: Required Not Required
from the site due to development for increased storm water runoff.
Peak Runoff Assessment Rate(\$) per c.f.s. increases.(10 year, 2 hour storm)
Peak Volume Assessment Rate(\$) per Ac. Ft. increases.(2 year, 2 hour storm)

AGREEMENTS, PLAN REFERENCES, PERMITS ETC. (To be completed by Consultant)

Preliminary Plat Approval/Permit Issued Date: NA
Expiration Date: —
Other Related Permit Numbers Received: —
Right-of-Way Use Permit: —
Grading: GRDE XX-XXXX
Building/Structural: —
Other: GRDE 16-0063
Board feet of tree removal on site: 0
Cubic yards of material hauled on/off the site: 10,000
Is this a highly sensitive area site? (Yes/No): YES
Note: If "yes", per SWDM Appendix D44 a Highly Sensitive Site Erosion Control Supervisor is required. See ESC plan.

Police—Fire—Rescue

RECOMMENDED FOR APPROVAL (To be completed by King County)

Date _____

Review Engineer _____

Senior Engineer _____

Traffic & Planning Engineer _____

Sensitive Areas _____

Structural Review Engineer _____

Other _____

King County
APPROVED FOR CONSTRUCTION
DEPARTMENT OF LOCAL SERVICES PERMITTING DIVISION

Date _____ Scott Smith, P.E.
Development Engineer

Contractors shall notify operators who maintain underground utility lines in the area of proposed excavation or blasting at least two business days, but not more than ten working days prior to commencement of excavation or demolition in accordance with RCW Title 19. Names and telephone numbers of the operators of underground utility lines in this project appear below. These numbers shall also be used to serve in an emergency conditions as required.

Name	Phone
Scott Woodbury	(360) 615-5728
City of Enumclaw Public Works (water & gas)	
Stuart Vaughan	(253) 396-3124
City of Tacoma Water	
Hong Nguyen	(425) 449-6609
Puget Sound Energy	
Call Before You Dig	DIAL-A-DIG 1-800-424-5555

PROJECT CONTACT INFORMATION
(To be completed by Consultant)

Applicant Contract Owner Lease
Name: Chris Erickson - Project Manager (206) 477-4564
Address and Zip Code: 201 S Jackson St Rm 700, Seattle WA 98104
 A Partnership
 An Individual

Ownership Owner Trustee
Name: King County Parks (206) 477-4564
Address and Zip Code: 201 S Jackson St Rm 700, Seattle WA 98104
 A Corporation
 A Partnership
 An Individual

Certified Surveyor Engineer
Name: Don Helling - Project Manager (206) 324-5500
Address and Zip Code: 818 Stewart St, Seattle WA 98101
 A Partnership
 An Individual

HUITT-ZOLLARS
Multi-States, Inc.
818 Stewart St, Suite 1120
Seattle, Washington, 98101-1479
Phone (206) 324-5500 Fax (206) 328-1880



FOOTHILLS TRAIL
PHASE II SEGMENT B
KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
CONTRACT # C---

ISSUE / REVISIONS	ID	DATE	DESCRIPTION
30% SUBMITTAL	△	2/13/2020	30% SUBMITTAL
65% SUBMITTAL	△	12/30/2020	65% SUBMITTAL
90% SUBMITTAL	△	5/24/2021	90% SUBMITTAL

PROJECT NO. 15095305
SITE NO. _____
FILE _____
CONTRACT NO. E00115E08 - AM. 20
DRAWN BY VUL CHECKED BY GRS
SHEET TITLE _____

COVER SHEET

GI-001

SHEET INDEX

CIVIL

SHEET	DRAWING	DESCRIPTION
1	GI-001	COVER SHEET
2	GI-002	SHEET INDEX
3	GI-003	NOTES, LEGENDS, AND ABBREVIATIONS
4	GI-004	OVERALL TRAIL PLAN KEY MAP
5	CS-100	SURVEY CONTROL PLAN
6	CS-101	ALIGNMENTS LAYOUT, LINES AND CURVES TABLE
7	CE-101	EROSION CONTROL PLAN, STA 142+00 TO STA 144+50
8	CE-102	EROSION CONTROL PLAN, STA 144+50 TO STA 148+00
9	CE-103	EROSION CONTROL PLAN, STA 148+00 TO STA 151+00
10	CE-104	EROSION CONTROL PLAN, STA 152+00 TO NORTH BANK WHITE RIVER
11	CE-301	EROSION CONTROL ROCK ARMOR REMOVAL
12	CE-501	EROSION CONTROL NOTES AND DETAILS
13	CE-502	EROSION CONTROL DETAILS
14	CG-101	GRADING PLAN BOISE CREEK BRIDGE TO STA 144+50
15	CG-102	GRADING PROFILE BOISE CREEK BRIDGE TO STA 144+50
16	CG-103	GRADING PLAN STA 144+50 TO STA 148+00
17	CG-104	GRADING PROFILE STA 144+50 TO STA 148+00
18	CG-105	GRADING PROFILE DRIVEWAY AND TURNAROUND
19	CG-106	GRADING PLAN STA 148+00 TO STA 151+50 AND ACCESS ROAD
20	CG-107	GRADING PROFILE STA 148+00 TO STA 151+50
21	CG-108	GRADING PLAN STA 151+50 TO WHITE RIVER BRDG NORTH ABUTMENT
22	CG-109	GRADING PROFILE STA 151+50 TO WHITE TIVER BRDG NORTH ABUTMENT
23	CG-110	DRAINAGE PLAN WHT RVR BR DECK STA 154+75 TO STA 158+75
24	CG-111	WHITE RIVER BRIDGE PROFILE STA 154+75 TO STA 158+75
25	CG-112	BOISE CREEK BRIDGE SURFACING PLAN
26	CG-113	MAINTENANCE ACCESS GRADING BLOW-UP DETAIL
27	CG-201	WALL #S 1 & 2 PROFILE & SECTIONS
28	CG-202	WALL # 3 PROFILE & SECTIONS
29	CG-203	WALL # 4 PROFILE & SECTIONS
30	CG-204	WALL # 5 PROFILE & SECTIONS
31	CG-301	GRADING SECTIONS, BOISE CREEK TO SE MMR RD
32	CG-302	GRADING SECTIONS, BOISE CREEK TO SE MMR RD
33	CG-303	GRADING SECTIONS MUD MTN RD TO WHITE RIVER
34	CG-401	DETENTION SYSTEM PLAN AND PROFILE
35	CG-410	DRAINAGE, DETENTION SYSTEM DETAILS
36	CG-411	DRAINAGE, TYPE 2 CATCH BASIN DETAILS
37	CG-412	DRAINAGE, TYPE 1 CATCH BASIN DETAILS & NOTES
38	CG-413	DRAINAGE, PIPE DETAILS
39	CG-501	TRAIL DETAILS
40	CG-502	TRAIL DETAILS
41	CP-101	TRAIL PLAN BOISE CREEK BRIDGE TO STA 144+50
42	CP-102	TRAIL PLAN STA 1450 TO STA 148+00
43	CP-103	TRAIL PLAN STA 148+00 TO STA 151+50
44	CP-104	TRAIL PLAN STA 152+00 TO STA 155+00
45	CP-105	BOISE CREEK BRIDGE DECK STRIPING PLAN
46	CP-401	SE MUD MTN RD TRAIL CROSSING BLOW UP PLAN AND DETAILS
47	CP-501	TRAIL IMPROVEMENT DETAILS
48	CP-502	TRAIL IMPROVEMENT DETAILS
49	CP-503	TRAIL IMPROVEMENT DETAILS
50	CP-504	TRAIL IMPROVEMENTS DETAILS
51	CU-101	UTILITY PLAN WATER SERVICES
52	CU-501	UTILITIES DETAILS

STRUCTURAL - WHITE RIVER BRIDGE

SHEET	DRAWING	DESCRIPTION
1	S-01	COVER PAGE
2	S-02	DRAWING INDEX
3	S-03	GENERAL STRUCTURAL NOTES
4	S-04	SUGGESTED CONSTRUCTION STAGING - SHEET 1
5	S-05	SUGGESTED CONSTRUCTION STAGING - SHEET 2
6	S-06	SUGGESTED CONSTRUCTION STAGING - SHEET 3
7	S-07	SUGGESTED CONSTRUCTION STAGING - SHEET 4
8	S-08	SITE PLAN
9	S-09	ALIGNMENT AND PROFILE
10	S-10	GENERAL ARRANGEMENT - SHEET 1
11	S-11	GENERAL ARRANGEMENT - SHEET 2
12	S-12	GENERAL ARRANGEMENT - SHEET 3
13	S-13	FOUNDATION LAYOUT
14	S-14	DRILLED SHAFT DETAILS
15	S-15	ABUTMENT A1 - OUTLINE
16	S-16	ABUTMENT A1 - REINFORCEMENT - SHEET 1
17	S-17	ABUTMENT A1 - REINFORCEMENT - SHEET 2
18	S-18	PIER P2 - EXISTING STRUCTURE DEMOLITION
19	S-19	PIER P2 - NEW STRUCTURE OUTLINE
20	S-20	PIER P2 - REINFORCEMENT - SHEET 1
21	S-21	PIER P2 - REINFORCEMENT - SHEET 2
22	S-22	PIER P3 - EXISTING RETROFIT - SHEET 1
23	S-23	PIER P3 - EXISTING RETROFIT - SHEET 2
24	S-24	PIER P3 - BEARING SUPPORTS
25	S-25	PIER P4 - EXISTING RETROFIT - SHEET 1
26	S-26	PIER P4 - EXISTING RETROFIT - SHEET 2
27	S-27	PIER P4 - BEARING SUPPORTS
28	S-28	ABUTMENT A5 - OUTLINE
29	S-29	ABUTMENT A5 - REINFORCEMENT - SHEET 1
30	S-30	ABUTMENT A5 - REINFORCEMENT - SHEET 2
31	S-31	BEARINGS AND SHEAR KEYS - SHEET 1
32	S-32	BEARINGS AND SHEAR KEYS - SHEET 2
33	S-33	ARCH DETAILS - SPAN 1 - SHEET 1
34	S-34	ARCH DETAILS - SPAN 1 - SHEET 2
35	S-35	ARCH DETAILS - SPAN 1 - SHEET 3
36	S-36	ARCH DETAILS - SPAN 1 - SHEET 4
37	S-37	ARCH DETAILS - SPAN 1 - SHEET 5
38	S-38	ARCH DETAILS - SPANS 2 AND 3 - SHEET 1
39	S-39	ARCH DETAILS - SPANS 2 AND 3 - SHEET 2
40	S-40	ARCH DETAILS - SPANS 2 AND 3 - SHEET 3
41	S-41	ARCH DETAILS - SPANS 2 AND 3 - SHEET 4
42	S-42	ARCH DETAILS - SPANS 2 AND 3 - SHEET 5
43	S-43	ARCH DETAILS - TYPICAL DETAILS - SHEET 1
44	S-44	ARCH DETAILS - TYPICAL DETAILS - SHEET 2
45	S-45	APPROACH SPAN FRAMING
46	S-46	CAMBER DIAGRAMS
47	S-47	DECK DETAILS - SHEET 1
48	S-48	DECK DETAILS - SHEET 2
49	S-49	DECK REINFORCEMENT - SHEET 1
50	S-50	DECK REINFORCEMENT - SHEET 2
51	S-51	JUMP SPAN - SHEET 1
52	S-52	JUMP SPAN - SHEET 2
53	S-53	EXPANSION JOINTS
54	S-54	MISCELLANEOUS DETAILS
55	S-55	OVERLOOK DETAILS - SHEET 1
56	S-56	OVERLOOK DETAILS - SHEET 2
57	S-57	GUARDRAIL DETAILS - SHEET 1
58	S-58	GUARDRAIL DETAILS - SHEET 2
59	S-59	GUARDRAIL DETAILS - SHEET 3

STRUCTURAL - WALLS

SHEET	DRAWING	DESCRIPTION
1	S-100	GENERAL STRUCTURAL NOTES
2	S-101	BOISE CREEK BRIDGE AND RETAINING WALLS PLAN WALLS 1-4
3	S-102	RETAINING WALLS PLAN WALLS 4-6
4	S-103	RETAINING WALLS - WALL SECTION LAYOUT
5	S-104	SOIL NAIL WALL LAYOUT WALL #3 SHEET 1 OF 2
6	S-105	SOIL NAIL WALL LAYOUT WALL #3 SHEET 2 OF 2
7	S-106	SOIL NAIL/TIE-BACK TYPICAL SECTIONS SHEET 1 OF 2
8	S-107	SOIL NAIL/TIE-BACK TYPICAL SECTIONS SHEET 2 OF 2
9	S-108	NORTH APPROACH EMBANKMENT SHEET 1 OF 2
10	S-109	NORTH APPROACH EMBANKMENT SHEET 2 OF 2
11	S-110	FENCE AND RAILS DETAILS
12	S-111	WALL PEDESTRIAN RAILING TYPE BP SHEET 1 OF 2
13	S-112	WALL PEDESTRIAN RAILING SHEET 2 OF 2
14	S-113	BOISE CREEK BRIDGE REPAIR PLAN
15	S-114	BOISE CREEK BRIDGE REPAIR DETAILS
16	S-115	BOISE CREEK BRIDGE WALL RETROFIT - TIE CONFIGURATION
17	S-116	BOISE CREEK BRIDGE WALL RETROFIT - FRP STRENGTHENING
18	S-117	BOISE CREEK BRIDGE WALL RETROFIT - FRP STRENGTHENING
19	S-118	BOISE CREEK BRIDGE WALL RETROFIT - CONNECTION DETAILS
20	S-119	BOISE CREEK BRIDGE WALL RETROFIT - WALER REINFORCEMENT DETAILS

MITIGATION

SHEET	DRAWING	DESCRIPTION
1	M-01	CRITICAL AREA OVERVIEW
2	M-02	IMPACT ASSESSMENT & MITIGATION PLAN (1 OF 4)
3	M-03	IMPACT ASSESSMENT & MITIGATION PLAN (2 OF 4)
4	M-04	IMPACT ASSESSMENT & MITIGATION PLAN (3 OF 4)
5	M-05	IMPACT ASSESSMENT & MITIGATION PLAN (4 OF 4)
6	M-06	PLANTING PLAN OVERVIEW, PLANT SCHEDULE & SOIL PREPARATION
7	M-07	PLANTING PLAN (1 OF 4)
8	M-08	PLANTING PLAN (2 OF 4)
9	M-09	PLANTING PLAN (3 OF 4)
10	M-10	PLANTING PLAN (4 OF 4)
11	M-11	MITIGATION & PLANTING PLAN DETAILS (1 OF 2)
12	M-12	MITIGATION & PLANTING PLAN DETAILS (2 OF 2)
13	M-13	MITIGATION PLAN MAINTENANCE & MONITORING REQUIREMENTS

DRAWING SHEET INDEX :

GI	=	GENERAL INFORMATION
CE	=	CIVIL EROSION AND SEDIMENT CONTROL
CS	=	CIVIL SITE (DIMENSION CONTROL)
CG	=	CIVIL GRADING
CP	=	CIVIL PLAN
S	=	STRUCTURAL
M	=	MITIGATION

GRDE XX-XXXX

KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



King County

Department of Natural Resources
and Parks
Parks and Recreation Division
King Street Center, KSC-NR-0700
201 So. Jackson Street, Suite 700
Seattle, Washington 98104
Telephone: (206) 477-4527
Fax: (206) 263-6217

HUTT-ZOLARS
Professional Engineer
818 Stewart St, Suite 1120
Seattle, Washington, 98101-1479
Phone (206) 324-5500 Fax (206) 328-1890



FOOTHILLS TRAIL
PHASE II SEGMENT B
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△	2/13/2020	30% SUBMITTAL
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PROJECT NO. 15095305

SITE NO.

FILE

CONTRACT NO. E00115E08 - AM. 20

DRAWN BY VUL CHECKED BY GRS

SHEET TITLE

SHEET INDEX

GI-002



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

90% SUBMITTAL

KC DLS GENERAL NOTES (*)

- ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH PERMIT CONDITIONS, THE KING COUNTY CODE (KCC), ROAD STANDARDS (KCRS), WASHINGTON STATE DOT (WSDOT) STANDARD SPECIFICATIONS AND THE CONDITIONS OF PRELIMINARY APPROVAL. ~~IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND THE PROFESSIONAL CIVIL ENGINEER TO CORRECT ANY ERROR, OMISSION, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS. ALL CORRECTIONS SHALL BE AT NO ADDITIONAL COST OR LIABILITY TO KING COUNTY.~~
- THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THE KING COUNTY DEPARTMENT OF PERMITTING AND ENVIRONMENTAL REVIEW (DPER) ENGINEERING REVIEW CHECKLIST. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE DPER PLAN REVIEWER. ANY VARIANCE FROM ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY KING COUNTY PRIOR TO CONSTRUCTION.
- APPROVAL OF THIS ROAD, GRADING, PARKING AND DRAINAGE PLAN DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION (E.G. DOMESTIC WATER CONVEYANCE, SEWER CONVEYANCE, GAS, ELECTRICAL, ETC.)
- BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRECONSTRUCTION MEETING MUST BE HELD BETWEEN THE DPER'S LAND USE INSPECTION SECTION, THE APPLICANT, AND THE APPLICANT'S CONSTRUCTION REPRESENTATIVE.
- A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- GRADING ACTIVITIES (SITE ALTERATION) ARE LIMITED TO THE HOURS OF 7 A.M. TO 7 P.M. MONDAY THROUGH SATURDAY FRIDAY AND 10 A.M. TO 5 P.M. ON SATURDAY AND SUNDAY, UNLESS OTHERWISE APPROVED WITH A WRITTEN DECISION BY THE REVIEWING AGENCY.
- IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS NECESSARY BEFORE INITIATING OFF-SITE WORK. EASEMENTS REQUIRE REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- FRANCHISED UTILITIES OR OTHER INSTALLATIONS THAT ARE NOT SHOWN ON THESE APPROVED PLANS SHALL NOT BE CONSTRUCTED UNLESS AN APPROVED SET OF PLANS THAT MEET ALL REQUIREMENTS OF KCRS CHAPTER 8 ARE SUBMITTED TO THE DPER'S LAND USE INSPECTION SECTION THREE DAYS PRIOR TO CONSTRUCTION.
- DATUM SHALL BE KCAS UNLESS OTHERWISE APPROVED BY DPER.
- DEWATERING SYSTEM (UNDERDRAIN) CONSTRUCTION SHALL BE WITHIN A RIGHT-OF-WAY OR APPROPRIATE DRAINAGE EASEMENT, BUT NOT UNDERNEATH THE ROADWAY SECTION. ALL UNDERDRAIN SYSTEMS MUST BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS.
- ALL UTILITY TRENCHES AND ROADWAY SUBGRADE SHALL BE BACKFILLED AND COMPACTED TO 95 PERCENT DENSITY, STANDARD PROCTOR UNLESS OTHERWISE NOTED.
- OPEN CUTTING OF EXISTING ROADWAYS FOR NON-FRANCHISED UTILITY OR STORM WORK IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY DPER AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH KCRS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL APPLY. WORK IN RIGHT-OF-WAY IS NOT AUTHORIZED UNTIL A TRAFFIC CONTROL PLAN IS APPROVED BY KING COUNTY.

KC DLS DRAINAGE NOTES (*)

- PROOF OF LIABILITY INSURANCE SHALL BE SUBMITTED TO DPER PRIOR TO THE CONSTRUCTION OF THE DRAINAGE FACILITIES, PREFERABLY AT THE PRECONSTRUCTION MEETING.
- ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT SPECIFICATIONS. THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL, AND ANY REQUIRED PIPE BEDDING, TO A UNIFORM GRADE SO THAT THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE.
- STEEL PIPE SHALL BE ALUMINIZED, OR GALVANIZED WITH ASPHALT TREATMENT #1 OR BETTER INSIDE AND OUTSIDE.
- ~~ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, SHALL HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.~~
- ~~ALL CATCH BASIN GRATES SHALL CONFORM TO KCRS, WHICH INCLUDES THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS" AND "PROPERTY OF KING COUNTY", EXCEPT THAT PRIVATE DRAINAGE SYSTEMS SHALL NOT HAVE THE WORDS "PROPERTY OF KING COUNTY".~~
- ALL DRIVEWAY CULVERTS LOCATED WITHIN KING COUNTY RIGHT-OF-WAY SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A MINIMUM 3:1 SLOPE FROM THE EDGE OF THE DRIVEWAY TO THE BOTTOM OF THE DITCH. CULVERTS SHALL HAVE BEVELED END SECTIONS TO MATCH THE SIDE SLOPE KCRS.
- ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1 FOOT, AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4"-8"/40%-70% PASSING; 2"-4" ROCK/30%-40% PASSING; AND -2" ROCK/10%-20% PASSING. INSTALLATION SHALL BE IN ACCORDANCE WITH KCRS.
- DRAINAGE OUTLETS (STUB-OUTS) SHALL BE PROVIDED FOR EACH INDIVIDUAL LOT, EXCEPT FOR THOSE LOTS APPROVED FOR INFILTRATION BY KING COUNTY. STUB-OUTS SHALL CONFORM TO THE FOLLOWING:
 - EACH OUTLET SHALL BE SUITABLY LOCATED AT THE LOWEST ELEVATION ON THE LOT, SO AS TO SERVICE ALL FUTURE ROOF DOWNSPOUTS AND FOOTING DRAINS, DRIVEWAYS, YARD DRAINS, AND ANY OTHER SURFACE OR SUBSURFACE DRAINS NECESSARY TO RENDER THE LOTS SUITABLE FOR THEIR INTENDED USE. EACH OUTLET SHALL HAVE FREE-FLOWING, POSITIVE DRAINAGE TO AN APPROVED STORMWATER CONVEYANCE SYSTEM OR TO AN APPROVED OUTFALL LOCATION.
 - OUTLETS ON EACH LOT SHALL BE LOCATED WITH A FIVE-FOOT-HIGH, 2" X 4" STAKE MARKED "STORM" OR "DRAIN". THE STUB-OUT SHALL EXTEND ABOVE SURFACE LEVEL, BE VISIBLE, AND BE SECURED TO THE STAKE.
 - PIPE MATERIAL SHALL CONFORM TO UNDERDRAIN SPECIFICATIONS DESCRIBED IN KCRS AND, IF NON-METALLIC, THE PIPE SHALL CONTAIN WIRE OR OTHER ACCEPTABLE DETECTION.
 - DRAINAGE EASEMENTS ARE REQUIRED FOR DRAINAGE SYSTEMS DESIGNED TO CONVEY FLOWS THROUGH INDIVIDUAL LOTS.
 - THE APPLICANT/CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS OF ALL STUB-OUT CONVEYANCE LINES WITH RESPECT TO THE UTILITIES (E.G. POWER, GAS, TELEPHONE, TELEVISION).
 - ALL INDIVIDUAL STUB-OUTS SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE LOT HOME OWNER.
- ALL DISTURBED PERVIOUS AREAS (COMPACTED, GRADED, LANDSCAPED, ETC.) OF THE DEVELOPMENT SITE MUST DEMONSTRATE ONE OF THE FOLLOWING: THE EXISTING DUFF LAYER SHALL BE STAGED AND REDISTRIBUTED TO MAINTAIN THE MOISTURE CAPACITY OF THE SOIL, OR; AMENDED SOIL SHALL BE ADDED TO MAINTAIN THE MOISTURE CAPACITY.
- SEASONAL CLEARING IS ~~LIMITED~~ NOT ALLOWED BETWEEN OCTOBER 1 AND MARCH 30 INCLUSIVE, UNLESS OTHERWISE APPROVED WITH A WRITTEN DECISION BY THE REVIEWING AGENCY.
- IMPROVEMENTS AND/OR ~~BUILDINGS~~ PAVEMENT SHALL NOT BE INSTALLED UNTIL DRAINAGE FACILITIES ARE "IN OPERATION", (KCC 9.04).

(*) NOTE:
 NOTES REFERENCE KING COUNTY SURFACE WATER DESIGN MANUAL, DATED APRIL 24, 2016
 EDITS TO KING COUNTY STANDARD NOTES BY HUITT-ZOLLARS ARE INDICATED BY UNDERLINING (ADDITIONS) OR STRIKE THROUGH (DELETIONS).

ABBREVIATIONS

AC	ASPHALTIC CONCRETE	FL	FLOW LINE OR FLANGE	PVC	POINT OF VERTICAL CURVE
ALT	ALTERNATE	FM	FORCE MAIN	PVI	POINT OF VERTICAL INTERSECTION
APPROX	APPROXIMATE	FT	FOOT/FEET	PVT	POINT OF VERTICAL TANGENT
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	G	GAS	R/W, ROW	RIGHT OF WAY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	GALV	GALVANIZED	R	RADIUS OR RIGHT
AVE	AVENUE	GRND	GROUND	REF	REFERENCE
BCV	BEGIN VERTICAL CURVE	GV	GATE VALVE	RIM	MANHOLE RIM ELEVATION
BLDG	BUILDING	H, HORZ	HORIZONTAL	RP	RADIUS POINT
BM	BENCHMARK	IE	INVERT ELEVATION	RT	RIGHT
B/P	BOTTOM OF PIPE	IN	INCH	S/W	SIDEWALK
C	COMMUNICATION	JB	JUNCTION BOX	S	SOUTH OR SLOPE
CB	CATCH BASIN	JT	JOINT TRENCH	SD	STORM DRAIN
CF	CUBIC FEET	KC	KING COUNTY	SF	SQUARE FEET
CIP	CAST-IN-PLACE	KCRS	KING COUNTY ROAD SERVICES	SEC	SECTION
CIP MON	CAST-IN-PLACE MONUMENT	KCSWDM	KING COUNTY SURFACE WATER DESIGN MANUAL	SEW	STRUCTURAL EARTH WALL
CJ	CENTER JOINT	L	LENGTH	SDMH	STORM MANHOLE
C	CENTERLINE	LF	LINEAR FEET	SS	SANITARY SEWER
CLR	CLEAR	LP	LOW POINT	SSMH	SANITARY SEWER MANHOLE
CONC	CONCRETE	LT	LEFT	STA	STATION
COORD	COORDINATE	MANUF	MANUFACTURER	STD	STANDARD
CULVT	CULVERT	MAX	MAXIMUM	TBM	TEMPORARY BENCH MARK
CY	CUBIC YARD	MED	MEDIUM	TEMP	TEMPORARY
D/W	DRIVEWAY	MH	MANHOLE	TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
DEF	DEFLECTION	MIN	MINIMUM	T/P	TOP OF PIPE
DEG	DEGREE	MON	MONUMENT IN CASE	T.W.	TOP OF WALL
DI	DUCTILE IRON	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	TYP	TYPICAL
DIA/DIAM/Ø	DIAMETER	MVO	MAIN VALVE OPENING	VAP	VERTICAL ANGLE POINT
DNRP	DEPARTMENT OF NATURAL RESOURCES AND PARKS	N	NORTH/NORTHING	VC	VERTICAL CURVE
DPER	DEPARTMENT OF PERMITTING AND ENVIRONMENTAL REVIEW	NIC	NOT IN CONTRACT	V, VERT	VERTICAL
DWG	DRAWING	NO	NUMBER	W	WEST OR WATER
E	EAST/EASTING OR ELECTRICAL	NST	NOT STEEPER THAN	W/	WITH
EA	EACH	NTS	NOT TO SCALE	WL	WETLAND
EG	EXISTING GRADE	OC	ON CENTER	WLRD	WATER AND LAND RESOURCES DIVISION
ELEV	ELEVATION	OD	OUTSIDE DIAMETER	WM	WATER MAIN OR WILLAMETTE MERIDIAN
EP/EOP	EDGE OF PAVEMENT	P	POWER OR POWER VAULT	WS	WATER SURFACE
EQ	EQUAL	PAVT	PAVEMENT	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
ESC	EROSION AND SEDIMENT CONTROL	PC	POINT OF CURVATURE	WV	WATER VALVE
ESMT	EASEMENT	PCC	POINT OF COMPOUND CURVE	XING	CROSSING
EV	END VERTICAL CURVE	PED	PEDESTAL/PEDESTRIAN		
EXIST	EXISTING	PI	POINT OF INTERSECTION		
FG	FINISH GRADE	PL	PROPERTY LINE		
FH	FIRE HYDRANT	POC	POINT OF CONNECTION		
FIN	FINISH	PP	POWER POLE OR PUGET POWER		
		PRC	POINT OF REVERSE CURVATURE		
		PSE	PUGET SOUND ENERGY		
		PT	POINT OF TANGENCY		

GENERAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE TO REQUIREMENTS OF THE CURRENT WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
- ALL GOVERNMENTAL SAFETY REGULATIONS SHALL BE STRICTLY ADHERED TO, INCLUDING OSHA, WISHA, AND THE WASHINGTON STATE DEPARTMENT OF LABOR AND INDUSTRY.
- THE APPROVAL OF THESE PLANS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH THE REQUIREMENTS OF OTHER GOVERNING AGENCIES.
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL CALL "ONE CALL" (811) FOR EXISTING UTILITY LOCATIONS.
- THE CONTRACTOR SHALL POTHOLE TO VERIFY THE LOCATION AND DEPTH OF UTILITY CROSSINGS PRIOR TO BEGINNING CONSTRUCTION IN THAT AREA.
- EXISTING UTILITIES SHOWN ARE BASED ON A FIELD SURVEY AND ARE ALSO SUPPLEMENTED WITH AVAILABLE RECORDS. THE CONTRACTOR WILL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES.
- CONSTRUCTION HOURS SHALL BE BETWEEN 7 AM AND 7 PM DURING THE WEEKDAYS. WEEKEND WORK SHALL BE APPROVED BY KING COUNTY PARKS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THE APPROVED CONTRACT DOCUMENTS ON THE SITE AT ALL TIMES.
- THE CONTRACTOR SHALL POST SIGNS AND INSTALL CONSTRUCTION LIMITS FENCING AS NEEDED TO KEEP THE PUBLIC OUTSIDE OF THE WORK AREA.
- THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS INCLUDED WITHIN THE "GEOTECHNICAL ENGINEERING DESIGN STUDY", PREPARED BY HART CROWSER, DATED JUNE 21, 2016 THAT IS A PART OF THE CONTRACT DOCUMENTS
- IF ANY NATIVE AMERICAN GRAVE(S) OR ARCHAEOLOGICAL/CULTURAL RESOURCES (INDIAN ARTIFACTS) ARE FOUND, ALL CONSTRUCTION ACTIVITY SHALL STOP AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER'S PROJECT REPRESENTATIVE.
- AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN WHAT WAS PRESENT PRIOR TO CONSTRUCTION.
- FINAL ACCEPTANCE WILL NOT BE MADE UNTIL TESTS, INSPECTIONS AND RECORD DRAWINGS ARE COMPLETE AND PROVEN SATISFACTORY.

LINETYPE LEGEND (EXISTING)

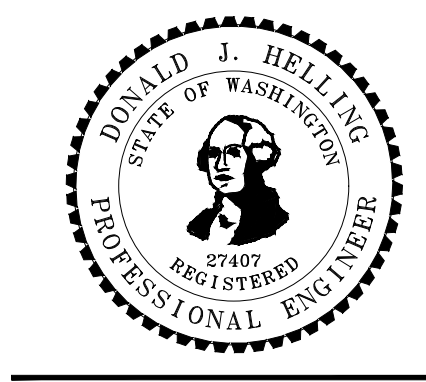
	730	CONTOUR MAJOR LINE
	729	CONTOUR MINOR LINE
		EDGE OF TREE LINE
		FENCE
		DELINEATED WETLAND / STREAM
		APPROXIMATE WETLAND / STREAM
		DITCH CENTERLINE
		PLSS SECTION LINE
		KING COUNTY PARKS PROPERTY
		RIGHT-OF-WAY LINE
		PROPERTY LINE

SYMBOL LEGEND (EXISTING)

	CONIFER TREE
	DECIDUOUS TREE
	SHRUB
	WETLAND FLAG
	POWER POLE
	STREET SIGN
	WATER METER
	WATER VALVE
	LOCATED PROPERTY MARKER
	PROJECT CONTROL POINT

GRDE XX-XXXX

KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



FOOTHILLS TRAIL
 PHASE II SEGMENT B
 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
 CONTRACT # C--

ISSUE / REVISIONS	ID	DATE	DESCRIPTION
	△	2/13/2020	30% SUBMITTAL
	△	12/30/2020	65% SUBMITTAL
	△	5/24/2021	90% SUBMITTAL

PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY VUL CHECKED BY GRS

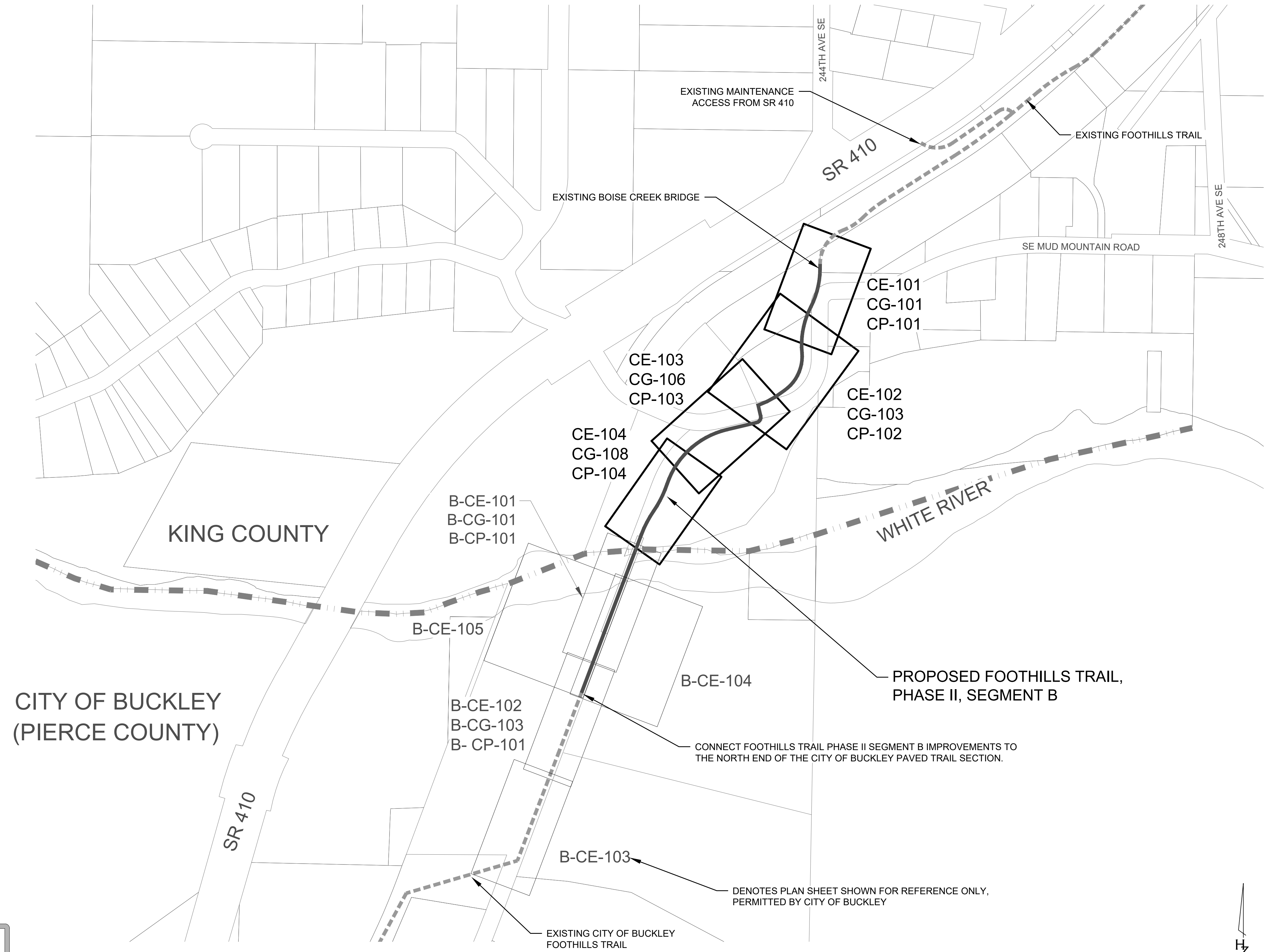
SHEET TITLE
**NOTES
 LEGENDS
 AND
 ABBREVIATIONS**

GI-003



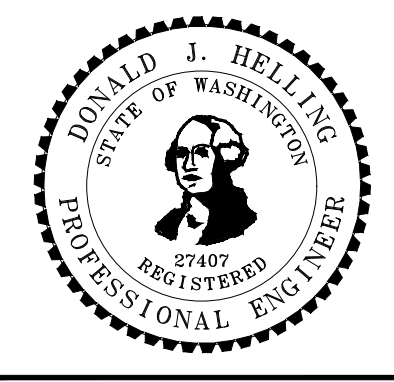
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King County
 Department of Natural Resources
 and Parks
Parks and Recreation Division
 King Street Center, KSC-NR-0700
 201 So. Jackson Street, Suite 700
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 Telephone: (206) 477-4527
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FOOTHILLS TRAIL
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 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
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PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY VUL CHECKED BY GRS
 SHEET TITLE
**OVERALL TRAIL
 PLAN KEY MAP**

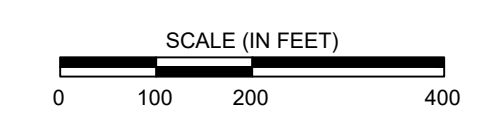
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 KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



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SEC. 26, 34 & 35, T 20 N, R 6 E, W.M.

NARRATIVE:

THE PURPOSE OF THIS SURVEY CONTROL SHEET IS TO ESTABLISH FIXED CONTROL TRAVERSE POSITIONS (HORIZONTAL AND VERTICAL COORDINATES) ALONG THE THE EXISTING ROUTE OF THE FOOTHILLS TRAIL AND ADJACENT STATE ROUTE 410, NEAR ENUMCLAW, WASHINGTON. THESE SERVICES WERE PROVIDED IN SUPPORT OF CIVIL DESIGN EFFORTS FOR AIDING IN THE ESTABLISHMENT OF THE PROPOSED CENTERLINE ALIGNMENT FOR THE FOOTHILLS TRAIL PROJECT.

HORIZONTAL BASIS OF BEARINGS (B.O.B.): NAD83-2011

THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM OF NAD83-2011 EPOCH 2010.00.

4 HORIZONTAL POSITIONS WERE DERIVED FROM DIRECT, MULTIPLE RTN GPS OBSERVATIONS, UTILIZING THE WASHINGTON STATE REFERENCE NETWORK (WSRN). SEPARATE GPS BASELINES ON EITHER END OF THE CONTROL TRAVERSE WERE CONSTRAINED TO MONUMENTED POSITIONS. THE NORTHERLY GPS REFERENCE BASELINE IS BETWEEN THE NORTH QUARTER AND THE NORTHEAST CORNER OF SECTION 35, TOWNSHIP 20 NORTH, RANGE 06 EAST, WILLAMETTE MERIDIAN, BEING POINT NUMBERS 99 AND 3870 IN THE COORDINATE TABLE LISTED HEREIN. THE SOUTHERN REFERENCE GPS BASELINE IS BETWEEN THE MONUMENTED INTERSECTION OF NORTH RIVER AVENUE AND DIERINGER AVENUE AND NORTHEASTERLY TO A SET 2" BRASS CAP AT SURFACE AT THE INTERSECTION OF NORTH RIVER AVENUE AND SOUTH SIDE OF THE EXISTING ASPHALT FOOTHILLS TRAIL, BEING POINT NUMBERS 31 AND 32 IN THE LISTED COORDINATE TABLE HEREIN. A STAR-NET LEAST SQUARES ADJUSTMENT BETWEEN SAID RTK BASELINES AND INTERMEDIATE TRAVERSE POSITIONS WERE USED TO ADJUST THE HORIZONTAL COORDINATE POSITIONING YIELDING A 95% CONFIDENCE IN POSITIONAL TOLERANCE.

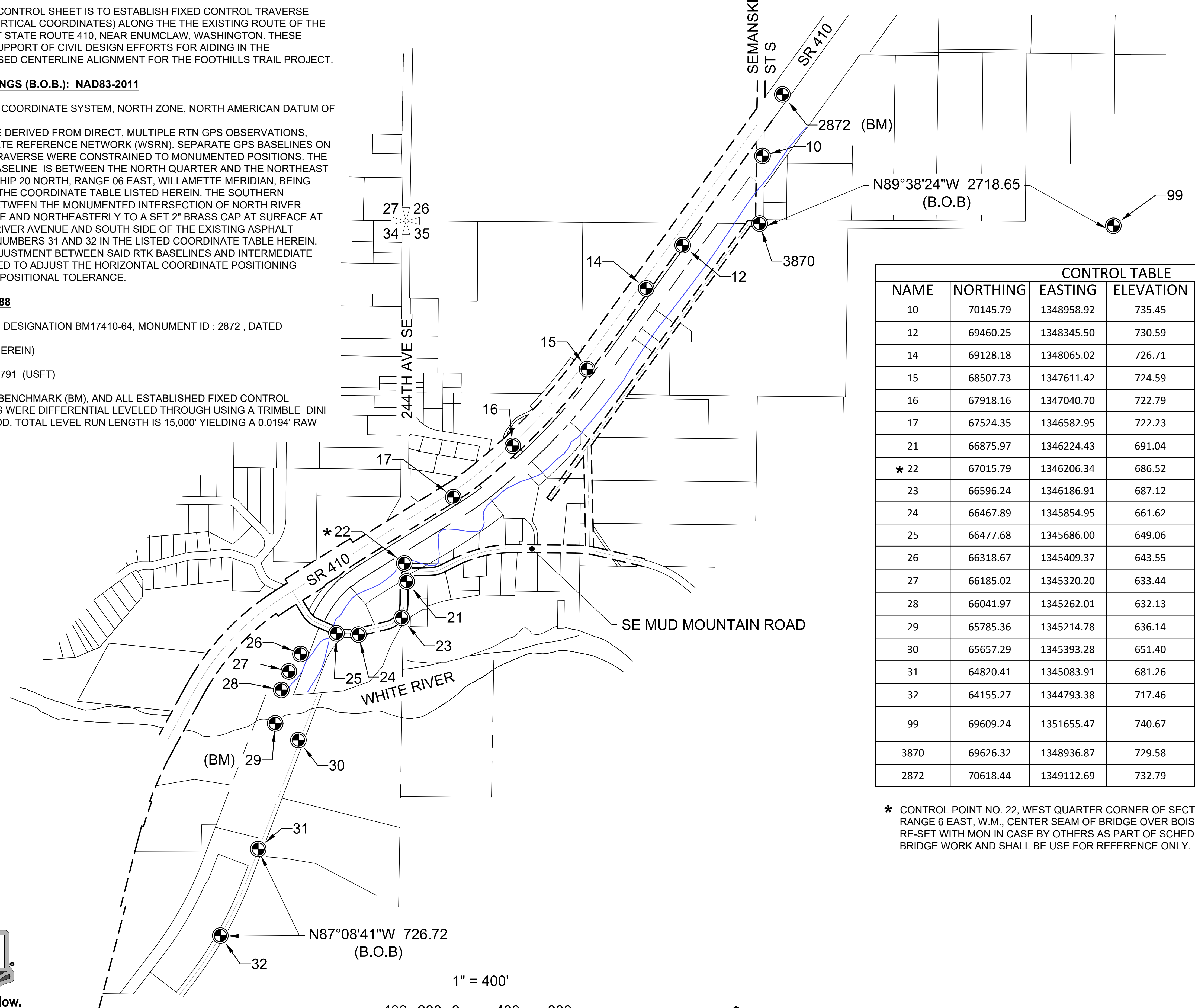
THE VERTICAL DATUM: NAVD88

PUBLISHED WSDOT DATA SHEET, DESIGNATION BM17410-64, MONUMENT ID : 2872 , DATED 07/02/2007.

(LISTED IN COORDINATE TABLE HEREIN)

ORTHOMETRIC ELEVATION = 732.791 (USFT)

THIS IS THE PROJECT VERTICAL BENCHMARK (BM), AND ALL ESTABLISHED FIXED CONTROL TRAVERSE ADJUSTED POSITIONS WERE DIFFERENTIAL LEVELED THROUGH USING A TRIMBLE DINI DIGITAL LEVEL AND BARCODE ROD. TOTAL LEVEL RUN LENGTH IS 15,000' YIELDING A 0.0194' RAW MISS CLOSURE.

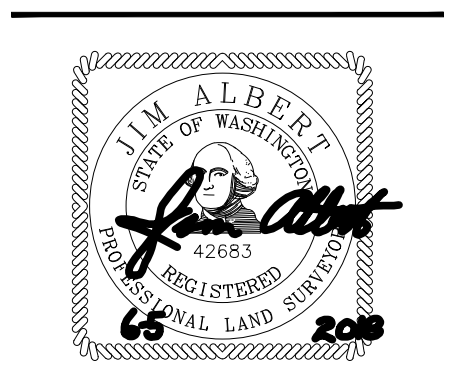


CONTROL TABLE				
NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION
10	70145.79	1348958.92	735.45	SET 2" BRASS DISK W/ CENTER PUNCH
12	69460.25	1348345.50	730.59	SET 2" BRASS DISK W/ CENTER PUNCH
14	69128.18	1348065.02	726.71	SET 5/8" REBAR & CAP
15	68507.73	1347611.42	724.59	SET 2" BRASS DISK W/ CENTER PUNCH
16	67918.16	1347040.70	722.79	SET 5/8" REBAR & CAP
17	67524.35	1346582.95	722.23	SET 2" BRASS DISK W/ CENTER PUNCH
21	66875.97	1346224.43	691.04	SET 2" BRASS DISK W/ CENTER PUNCH
* 22	67015.79	1346206.34	686.52	FND COTTON GIN SPIKE
23	66596.24	1346186.91	687.12	SET 5/8" REBAR & CAP
24	66467.89	1345854.95	661.62	SET 5/8" REBAR & CAP
25	66477.68	1345686.00	649.06	SET 5/8" REBAR & CAP
26	66318.67	1345409.37	643.55	SET 2" BRASS DISK W/ CENTER PUNCH
27	66185.02	1345320.20	633.44	SET 2" BRASS DISK W/ CENTER PUNCH
28	66041.97	1345262.01	632.13	SET 2" BRASS DISK W/ CENTER PUNCH
29	65785.36	1345214.78	636.14	FND 1-1/2" BRASS DISK W/ CENTER PUNCH
30	65657.29	1345393.28	651.40	SET 5/8" REBAR & CAP
31	64820.41	1345083.91	681.26	SET 2" BRASS DISK W/ CENTER PUNCH
32	64155.27	1344793.38	717.46	FND 2" BRASS DISK W/ CENTER PUNCH
99	69609.24	1351655.47	740.67	FND 4" X 4" CONCRETE MONUMENT W/ COPPER PLUG
3870	69626.32	1348936.87	729.58	FND STONE MONUMENT W/ LEAD PLUG
2872	70618.44	1349112.69	732.79	FND WSDOT BRASS DISK BM

* CONTROL POINT NO. 22, WEST QUARTER CORNER OF SECTION 35, TOWNSHIP 20 NORTH, RANGE 6 EAST, W.M., CENTER SEAM OF BRIDGE OVER BOISE CREEK. MONUMENT TO BE RE-SET WITH MON IN CASE BY OTHERS AS PART OF SCHEDULED 2021 BOISE CREEK BRIDGE WORK AND SHALL BE USE FOR REFERENCE ONLY.

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 Parks and Recreation Division
 King Street Center, KSC-NR-0700
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 Seattle, Washington 98104
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 Consulting Engineers
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 SEATTLE, WA. 98104
 PH: 206-621-1218
 EMAIL: LIN@LINASSOCIATES.COM



FOOTHILLS TRAIL
 PHASE II SEGMENT B
 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
 CONTRACT # C---

ISSUE / REVISIONS		
ID	DATE	DESCRIPTION
△	2/13/2020	30% SUBMITTAL
△	12/30/2020	65% SUBMITTAL
△	5/24/2021	90% SUBMITTAL

PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY CS CHECKED BY JA
 SHEET TITLE
SURVEY CONTROL PLAN

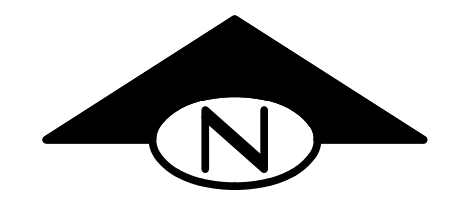
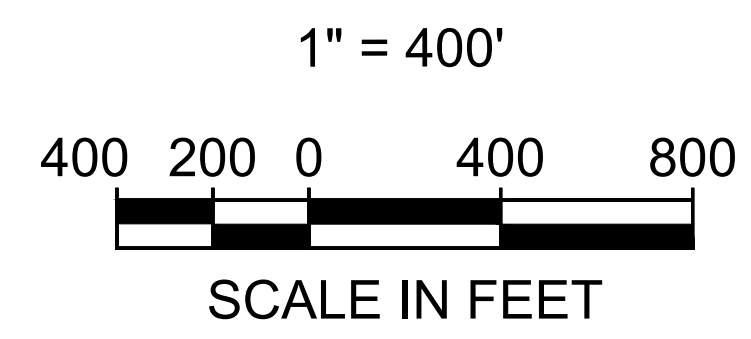
GRDE XX-XXXX	
KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

CS-100
 5 OF 52

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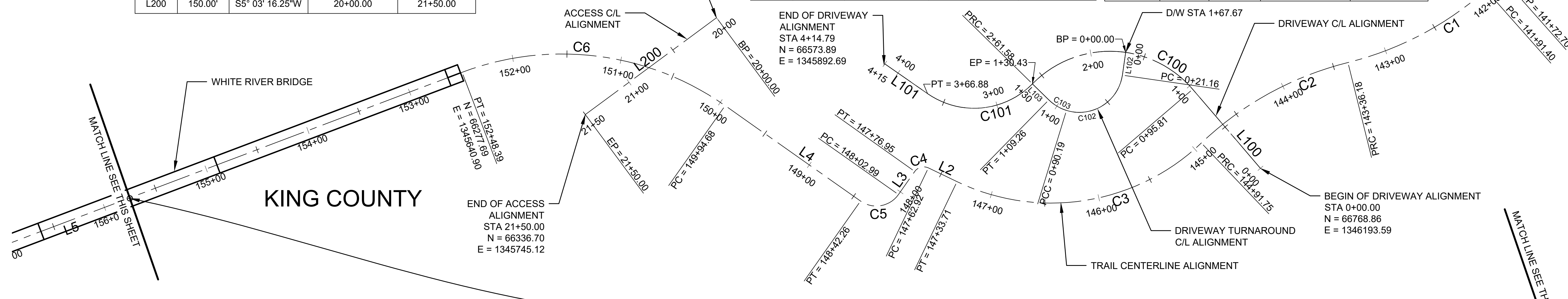
ACCESS CENTERLINE ALIGNMENT LINES AND CURVES DATA

LINE TABLE				
LINE #	LENGTH	BEARING	START STATION	END STATION
L200	150.00'	S5° 03' 16.25"W	20+00.00	21+50.00

LINE TABLE				
LINE #	LENGTH	BEARING	START STATION	END STATION
L100	95.81'	N89° 04' 29.68"W	0+00.00	0+95.81
L101	47.91'	S76° 23' 49.78"W	3+66.88	4+14.79

CURVE TABLE				
CURVE #	RADIUS	LENGTH	START STATION	END STATION
C100	100'	165.76'	0+95.81	2+61.58
C101	75'	105.31'	2+61.58	3+66.88

BEGIN OF TRAIL ALIGNMENT
 STA 141+72.70
 N = 67051.60
 E = 1346208.06
 SEE SHEET NOTE 1



TRAIL CENTERLINE ALIGNMENT LINES AND CURVES DATA

LINE TABLE				
LINE #	LENGTH	BEARING	START STATION	END STATION
L1	18.70'	S0° 04' 41.78"E	141+72.70	141+91.40
L2	29.20'	S67° 10' 51.70"W	147+33.71	147+62.92
L3	26.04'	S13° 17' 58.75"E	147+76.95	148+02.99
L4	152.42'	S76° 42' 01.25"W	148+42.26	149+94.68
L5	1,705.82'	S20° 47' 21.09"W	152+48.39	169+54.21

CURVE TABLE				
CURVE #	RADIUS	LENGTH	START STATION	END STATION
C1	300'	144.78'	141+91.40	143+36.18
C2	300'	155.57'	143+36.18	144+91.75
C3	200'	241.97'	144+91.75	147+33.71
C4	10'	14.03'	147+62.92	147+76.95
C5	25'	39.27'	148+02.99	148+42.26
C6	260'	253.72'	149+94.68	152+48.39

DRIVEWAY TURNAROUND CENTERLINE ALIGNMENT LINES AND CURVES DATA

LINE TABLE				
LINE #	LENGTH	BEARING	START STATION	END STATION
L102	21.16'	S40° 14' 46.29"E	0+00.00	0+21.16
L103	21.16'	S85° 56' 56.43"W	1+09.26	1+30.43

CURVE TABLE				
CURVE #	RADIUS	LENGTH	START STATION	END STATION
C102	40'	69.03'	0+21.16	0+90.19
C103	40'	19.07'	0+90.19	1+09.26

MATCH LINE = APPROX COUNTY BOUNDARY LINE AT TRAIL CENTERLINE STATION ± 155+75

STA 160+00.00
 N = 65575.02
 E = 1345374.13

END OF FOOTHILLS TRAIL PHASE II, SEGMENT B
 CONNECT TO EXISTING CITY OF BUCKLEY TRAIL
 STA ± 161+00

CITY OF BUCKLEY (PIERCE COUNTY)

SHEET NOTES

- FOOTHILLS TRAIL PHASE II, SEGMENT B BEGINS AT THE APPROXIMATE CENTER OF THE EXISTING BOISE CREEK ARCH BRIDGE, WHERE THE FOOTHILLS TRAIL PHASE II, SEGMENT A ENDS.

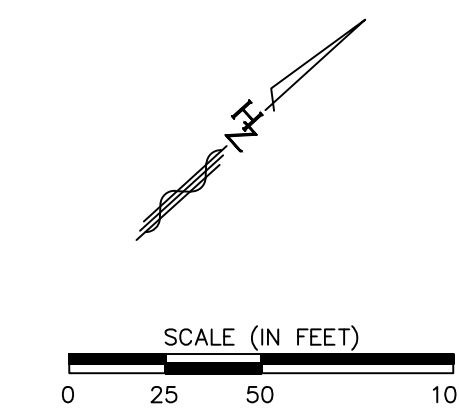
END OF TRAIL ALIGNMENT
 STA 169+54.21
 N = 64682.94
 E = 1345035.45

CASCADE WATER ALLIANCE FLUME ROAD CROSSING,
 APPROXIMATE STA ± 166+50



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GRDE XX-XXXX	
KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

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Parks and Recreation Division
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DONALD J. HELLING
 STATE OF WASHINGTON
 PROFESSIONAL ENGINEER

FOOTHILLS TRAIL
 PHASE II SEGMENT B
 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
 CONTRACT # C---

ISSUE / REVISIONS		
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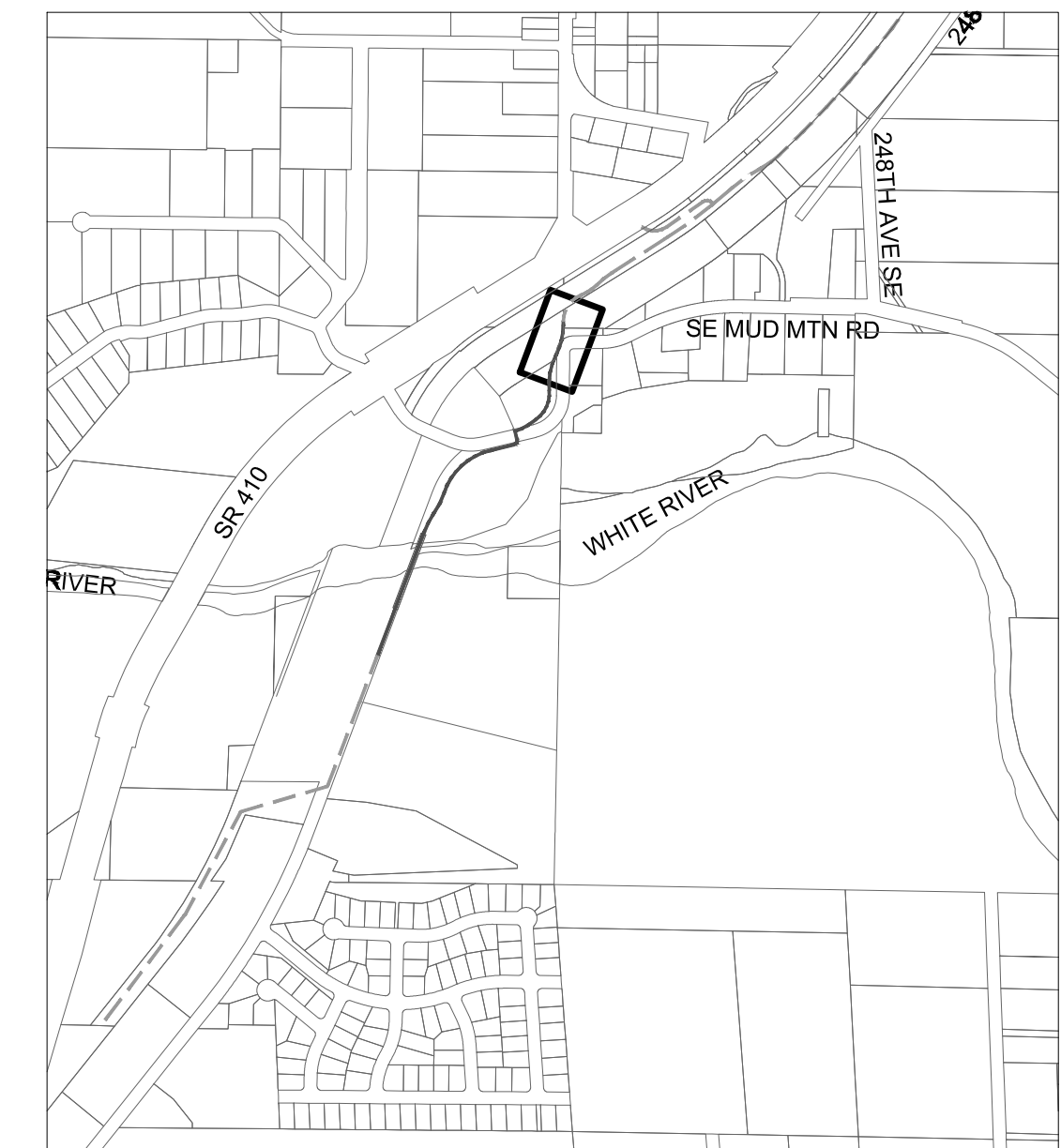
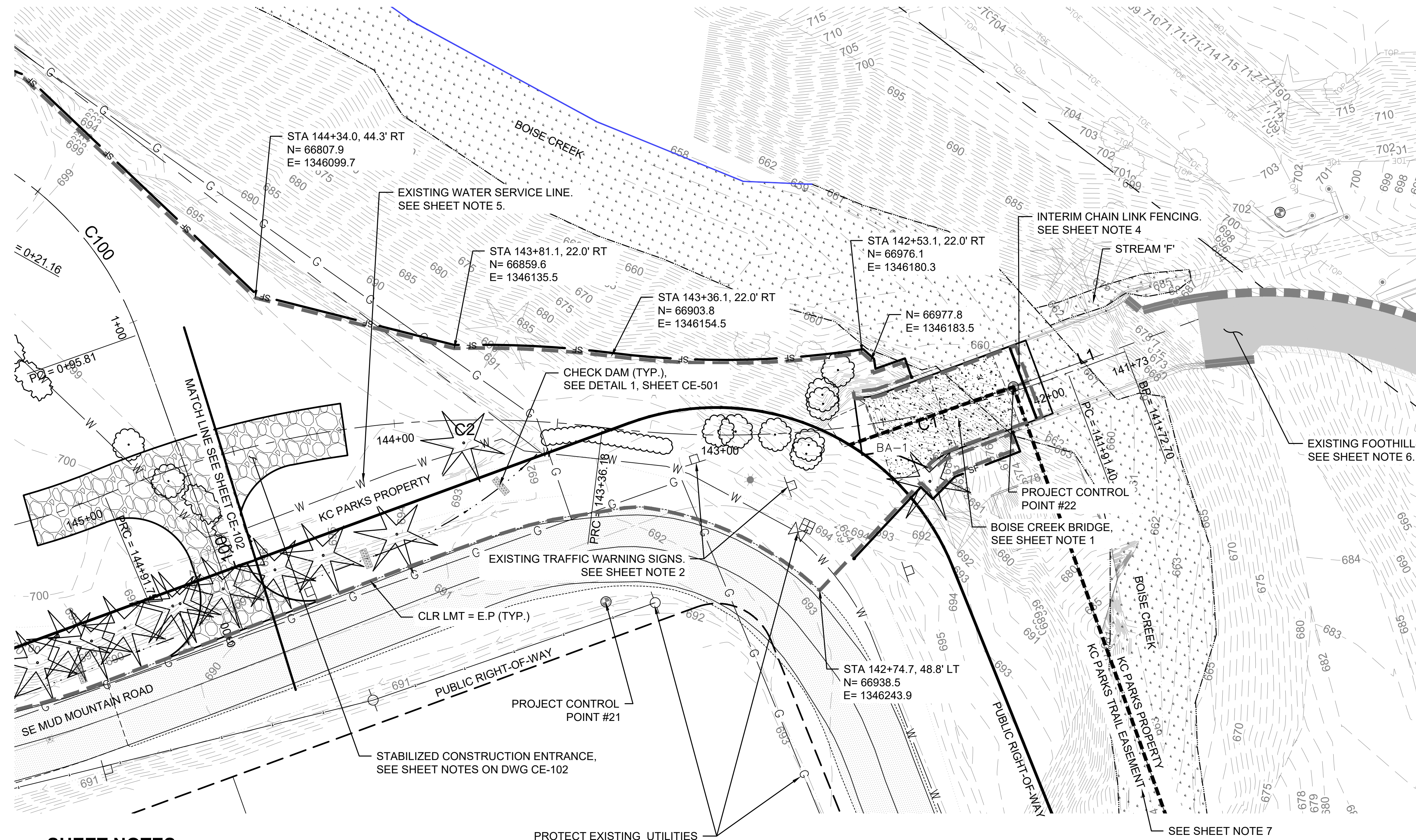
PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY VUL CHECKED BY GRS

SHEET TITLE
**ALIGNMENTS
 LAYOUT
 LINES
 AND
 CURVES TABLE**

CS-101

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SEC. 34 & 35, T 20 N, R 6 E, W.M.



KEY MAP

LEGEND

- CLEARING LIMITS
- PERIMETER PROTECTION (SILT FENCE/ WATTLE)
- TREES TO BE REMOVED
- TP-# TEST PIT #
- BA/BS-# BORING #

NOTES

1. PERIMETER PROTECTION (SILT FENCE/WATTLE) SHOWN OFFSET FROM CLEARING LIMITS FOR LEGIBILITY ONLY. PERIMETER PROTECTION SHALL BE PLACED AT CLEARING LIMIT LINE WHERE INDICATED.
2. KEEP ALL CONSTRUCTION EQUIPMENT, MATERIALS, AND ACTIVITIES WITHIN THE SILT FENCE/ CLEARING LIMITS AREA.
3. REMOVE BRANCHES GROWING TO 12 FEET ABOVE THE GROUND SURFACE WITHIN THE SILT FENCE/ CLEARING LIMITS AREA. CUT CLEAN AND FLUSH TO TRUNK OF TREE.

SHEET NOTES

1. THE EXISTING BOISE CREEK BRIDGE HAS AN H-10 LOAD LIMIT RATING, HEAVY EQUIPMENT AND MATERIALS EXCEEDING 10 TONS SHALL NOT BE PERMITTED ON THE BRIDGE STRUCTURE. CONTRACTOR SHALL POST AND MAINTAIN CONSTRUCTION LOAD LIMIT WARNING SIGNAGE ON WORKING END OF THE BRIDGE STRUCTURE UNTIL PERMANENT LOAD LIMIT WARNING SIGNAGE IS INSTALLED.
2. PROTECT AND MAINTAIN EXISTING MUD MOUNTAIN ROAD TRAFFIC WARNING SIGNS LOCATED WITHIN THE CLEARING LIMITS THROUGHOUT CONSTRUCTION.
3. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS OF CONSTRUCTION ACTIVITIES IN SE MUD MOUNTAIN ROAD FOR KING COUNTY DEPARTMENT OF LOCAL SERVICES REVIEW AND APPROVAL. THE TRAFFIC CONTROL PLANS SHALL INCLUDE, BUT NOT LIMIT TO, ROAD CLOSURE WITH DETOUR PLANS, LANE CLOSURE, WORK WITHIN THE RIGHT-OF-WAY, AND TEMPORARY CONSTRUCTION TRAFFIC ENTERING/ LEAVING THE ROADWAY.
4. PHASE II, SEGMENT A END OF TRAIL CHAIN LINK FENCING AND TRAIL CLOSURE SIGNS AT THE BOISE CREEK BRIDGE HAVE BEEN INSTALLED BY OTHERS. CONTRACTOR TO MAINTAIN AND/OR MODIFY THE TEMPORARY FENCING MEASURES AS NEEDED TO RESTRICT PUBLIC ACCESS TO THE BOISE CREEK BRIDGE CONSTRUCTION ACTIVITIES. FOLLOWING CONSTRUCTION, THE CONTRACTOR SHALL REMOVE THESE TEMPORARY FENCING MEASURES AS PART OF THEIR WORK.
5. EXISTING WATER SERVICE TO HOUSE # 24316 TO REMAIN IN SERVICE. IF THE EXISTING WATER SERVICE PIPING IS ENCOUNTERED DURING CONSTRUCTION THE CONTRACTOR SHALL PROVIDE AND INSTALL WATER SERVICE BY-PASS SYSTEM(S) AS NEEDED TO MAINTAIN SERVICE TO HOUSE # 24316. SEE SHEET CU-101 FOR FINAL WATER SERVICE IMPROVEMENTS.
6. THE FOOTHILLS TRAIL NORTH OF THE BOISE CREEK BRIDGE IS OPEN FOR PUBLIC USE. UNAUTHORIZED CONSTRUCTION ACCESS NORTH OF THE BRIDGE IS NOT PERMITTED.
7. KING COUNTY PARKS TRAIL IMPROVEMENTS CROSSING PARCEL # 642700-0225 VIA TRAIL ACCESS EASEMENT RECORDING NUMBER 20160805001035.



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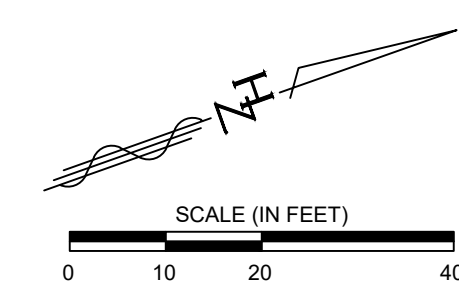
FOOTHILLS TRAIL
 PHASE II SEGMENT B
 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
 CONTRACT # C---

ID	DATE	DESCRIPTION
△	2/13/2020	30% SUBMITTAL
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△	5/24/2021	90% SUBMITTAL

PROJECT NO. 15095305
SITE NO.
FILE
CONTRACT NO. E00115E08 - AM. 20
DRAWN BY VUL CHECKED BY GRS
SHEET TITLE

EROSION CONTROL PLAN
STA 142+00
TO
STA 144+50

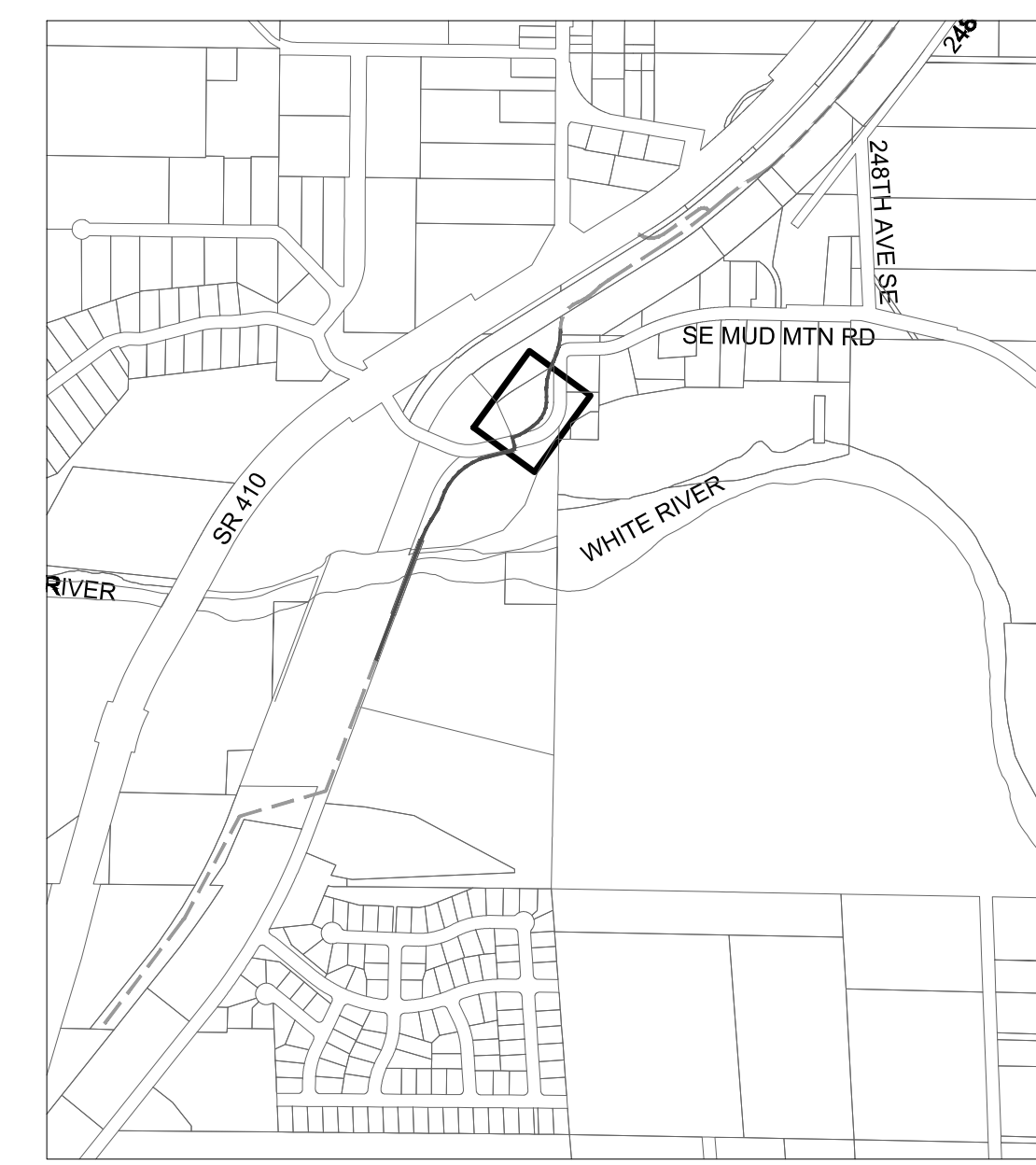
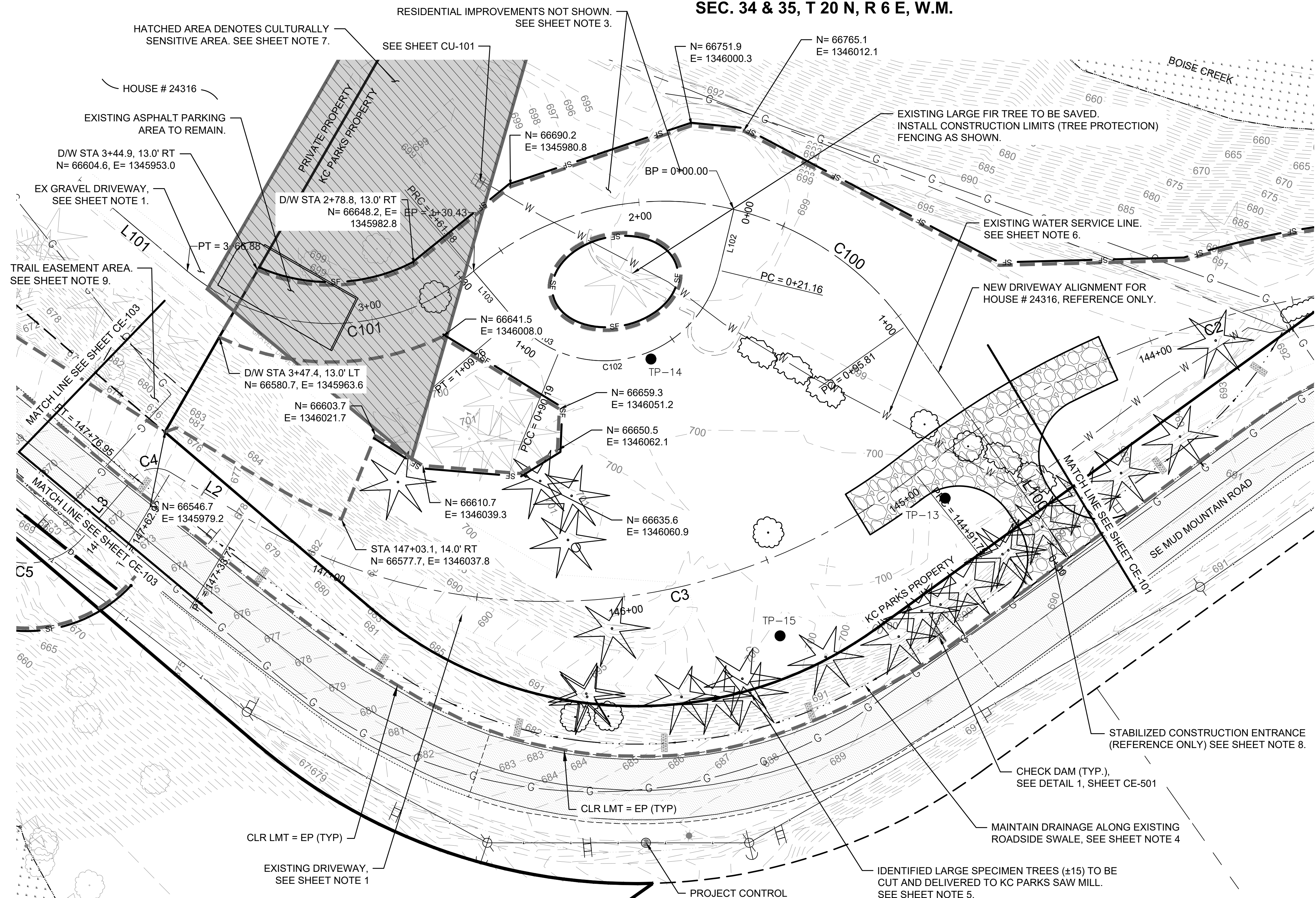
CE-101



GRDE XX-XXXX	
KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

Monday, May 24, 2021 9:32am
 J:\15095305 - Foothills Trail\E00115E08\10 CADD & BIM\10.1 AutoCAD\90% Sheet Files\

SEC. 34 & 35, T 20 N, R 6 E, W.M.



LEGEND

- CLEARING LIMITS
- SF - PERIMETER PROTECTION (SILT FENCE/WATTLE)
- ★ TREES TO BE REMOVED
- TP-# TEST PIT #
- ⊙ BA/BS-# BORING #

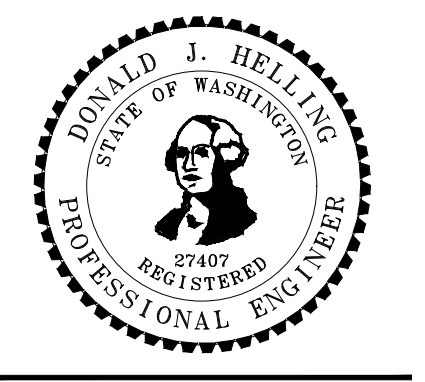
KEY MAP

- NOTES**
- PERIMETER PROTECTION (SILT FENCE/WATTLE) SHOWN OFFSET FROM CLEARING LIMITS FOR LEGIBILITY ONLY. PERIMETER PROTECTION SHALL BE PLACED AT CLEARING LIMIT LINE WHERE INDICATED.
 - KEEP ALL CONSTRUCTION EQUIPMENT, MATERIALS, AND ACTIVITIES WITHIN THE SILT FENCE/ CLEARING LIMITS AREA.
 - REMOVE BRANCHES GROWING TO 12 FEET ABOVE THE GROUND SURFACE WITHIN THE SILT FENCE/ CLEARING LIMITS AREA. CUT CLEAN AND FLUSH TO TRUNK OF TREE.

- SHEET NOTES**
- CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED AND COORDINATED TO MAINTAIN VEHICLE ACCESS TO HOUSE # 24316 FOR THE DURATION OF THE PROJECT.
 - SEE SHEET NOTES ON SHEET CE-101 REGARDING TRAFFIC CONTROL REQUIREMENTS FOR WORK WITHIN AND ADJACENT TO SE MUD MOUNTAIN ROAD.
 - EXISTING RESIDENTIAL IMPROVEMENTS ON THIS KING COUNTY PARKS OWNED PARCEL NOT SHOWN, TO BE DEMOLISHED AND REMOVED BY OTHERS.
 - PROVIDE TEMPORARY CHECK DAMS PER DETAIL ON SHEET CE-501 ALONG THE EXISTING SWALE OF SE MUD MOUNTAIN ROAD.
 - CONTRACTOR SHALL CUT, SALVAGE AND TRANSPORT IDENTIFIED SPECIMEN TREES TO KC PARKS SAW MILL AS DIRECTED BY THE OWNERS PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL REMOVE THE REMAINING TREES, STUMPS AND WOODY DEBRIS LOCATED WITHIN THE CLEARING LIMITS.
 - EXISTING WATER SERVICE TO HOUSE # 24316. SEE SHEET NOTES ON DRAWING SHEET CE-101.
 - IDENTIFIED CULTURALLY SENSITIVE AREA SHALL BE FLAGGED BY SURVEYOR. UNAUTHORIZED EXCAVATION SHALL NOT BE PERMITTED WITHIN THIS SENSITIVE AREA.
 - THE STABILIZED CONSTRUCTION ENTRANCE LOCATION SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THE STABILIZED CONSTRUCTION ENTRANCE WHERE THE CONTRACTOR'S CONSTRUCTION EQUIPMENT AND VEHICLES WILL BE DIRECTED TO ENTER AND LEAVE SE MUD MOUNTAIN ROAD FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL ROADWAY SURFACES ARE KEPT CLEAN THROUGHOUT THE PROJECT. SEE STABILIZED CONSTRUCTION ENTRANCE NOTES AND DETAILS ON SHEET CE-502.
 - KING COUNTY PARKS TRAIL IMPROVEMENTS CROSSING PARCEL # 34200069052 WITHIN TRAIL ACCESS EASEMENT RECORDING NUMBER 2021XXXXXX.

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FOOTHILLS TRAIL
 PHASE II SEGMENT B
 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
 CONTRACT # C---

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△	5/24/2021	90% SUBMITTAL

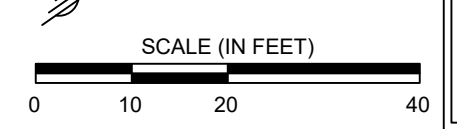
PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY VUL CHECKED BY GRS
 SHEET TITLE

EROSION CONTROL PLAN
 STA 144+50
 TO
 STA 148+00

CE-102
 8 OF 52

GRDE XX-XXXX
 KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

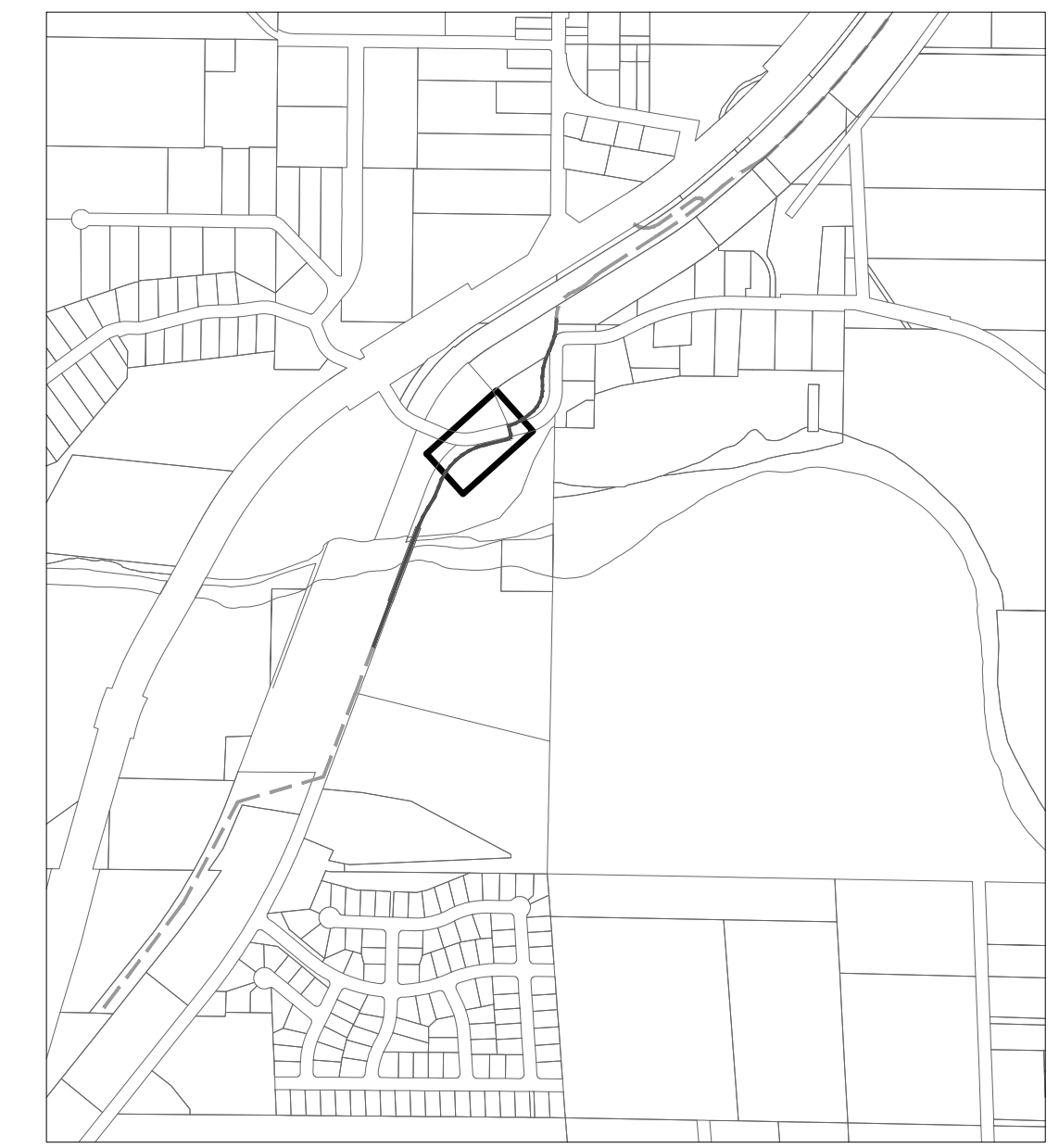
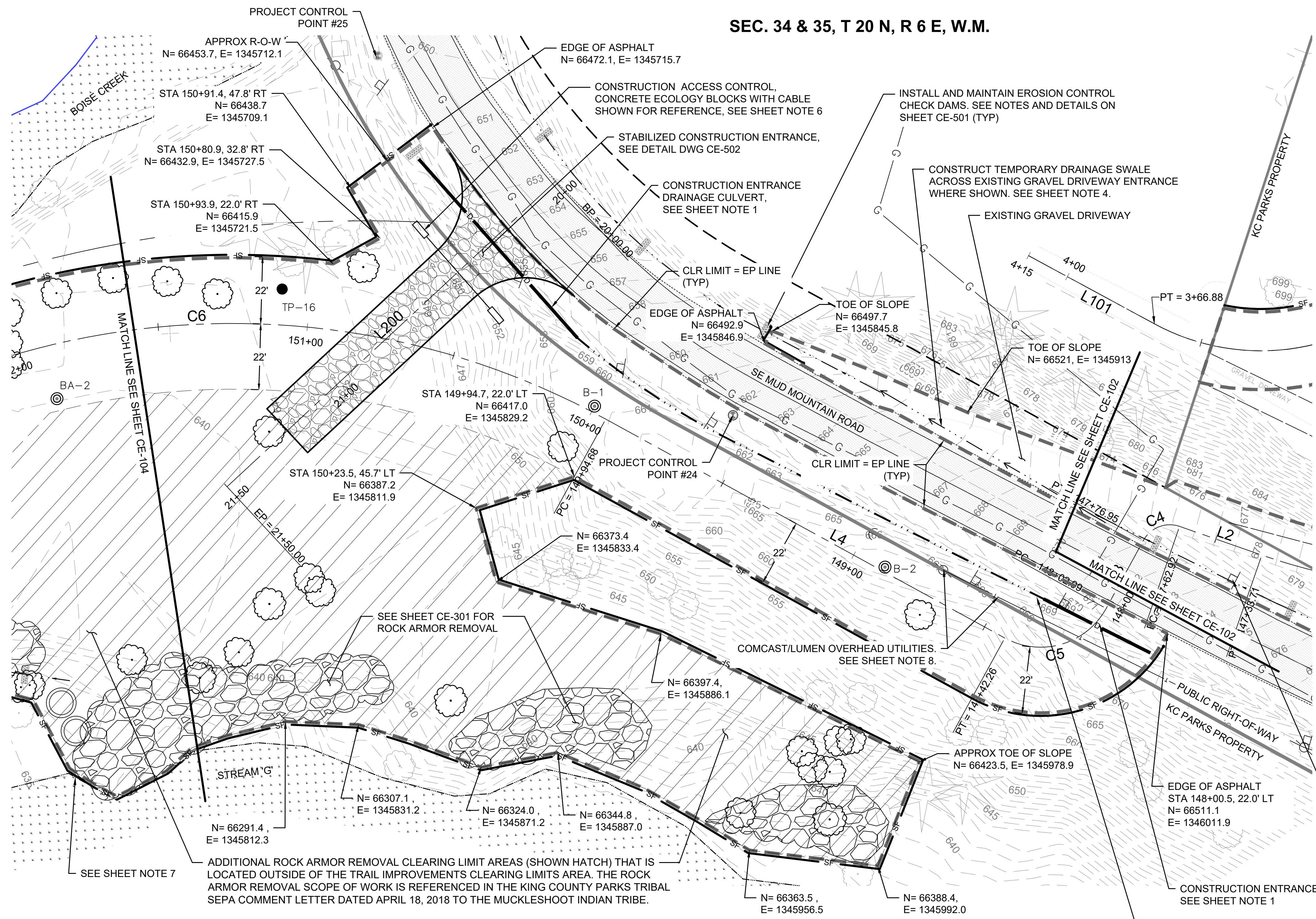


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SEC. 34 & 35, T 20 N, R 6 E, W.M.



KEY MAP

LEGEND

- CLEARING LIMITS
- PERIMETER PROTECTION (SILT FENCE/WATTLE)
- TREES TO BE REMOVED
- TEST PIT #
- BORING #

NOTES

1. PERIMETER PROTECTION (SILT FENCE/WATTLE) SHOWN OFFSET FROM CLEARING LIMITS FOR LEGIBILITY ONLY. PERIMETER PROTECTION SHALL BE PLACED AT CLEARING LIMIT LINE WHERE INDICATED.
2. KEEP ALL CONSTRUCTION EQUIPMENT, MATERIALS, AND ACTIVITIES WITHIN THE SILT FENCE/ CLEARING LIMITS AREA.
3. REMOVE BRANCHES GROWING TO 12 FEET ABOVE THE GROUND SURFACE WITHIN THE SILT FENCE/ CLEARING LIMITS AREA. CUT CLEAN AND FLUSH TO TRUNK OF TREE.

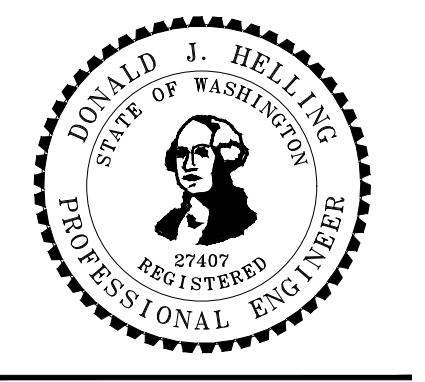
EXISTING TRAFFIC WARNING SIGNS. SEE SHEET NOTE 5.

SHEET NOTES

1. INSTALL PERMANENT 12-INCH Ø DI STORM DRAIN CULVERT PIPE IN LIEU OF A TEMPORARY CULVERT. SEE SHEET CG-106.
2. CONTRACTOR TO MAINTAIN EXISTING ROADSIDE DRAINAGE DURING CONSTRUCTION. STEEL SHEET PROTECTING THE EXISTING DITCH OR THE USE OF TEMPORARY DRAINAGE PIPES TO CONVEY THE SURFACE FLOWS WILL BE PERMITTED. THE ROADSIDE DRAINAGE DITCH WILL BE RESTORED TO ITS EXISTING CONFIGURATION FOLLOWING CONSTRUCTION.
3. SEE SHEET NOTE 3 ON SHEET CE-101 FOR SE MUD MOUNTAIN ROAD TRAFFIC CONTROL REQUIREMENTS.
4. EXISTING ROADSIDE DRAINAGE AT GRAVEL DRIVEWAY ENTRANCE FOLLOWS EDGE OF EXISTING PAVEMENT AND CONTINUES DOWNSTREAM ALONG THE EDGE OF THE PAVEMENT. CONTRACTOR SHALL DIRECT SURFACE FLOWS ACROSS GRAVEL DRIVEWAY ENTRANCE TO CONVEY RUNOFF TO THE EXISTING ROADSIDE SWALE DOWNSTREAM.
5. PROTECT AND MAINTAIN EXISTING MUD MOUNTAIN ROAD TRAFFIC WARNING SIGNS LOCATED WITHIN THE CLEARING LIMITS THROUGHOUT CONSTRUCTION.
6. CONTRACTOR TO PROVIDE TEMPORARY SE MUD MOUNTAIN ROAD CONSTRUCTION ACCESS CONTROL. THE CONTRACTOR SHALL LOCK AND SECURE THE CONSTRUCTION SITE AT THE END OF EACH WORKING DAY.
7. CLEARING LIMITS TO BE FIELD ADJUSTED AS NEEDED TO BE LOCATED OUTSIDE OF THE DELINEATED OHWM. ALL ROCK ARMOR REMOVAL SHALL BE CLEARLY LOCATED OUTSIDE OF THE STREAM / RIVER DELINEATION.
8. EXISTING COMCAST/LUMEN UTILITY POLES AND OVERHEAD UTILITIES WITHIN THE CLEARING LIMITS ARE SCHEDULED TO BE RELOCATED PRIOR TO CONSTRUCTION.

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 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
 CONTRACT # C---

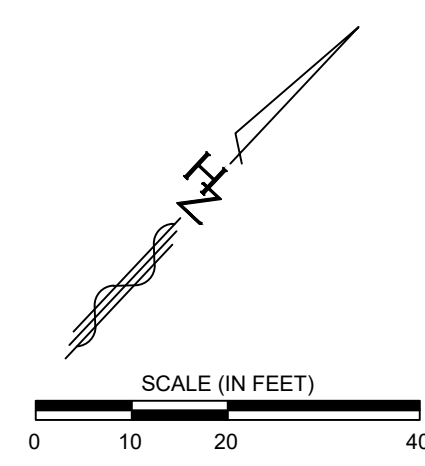
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65% SUBMITTAL	△	12/30/2020	
90% SUBMITTAL	△	5/24/2021	

PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY VUL CHECKED BY GRS
 SHEET TITLE

EROSION CONTROL PLAN
 STA 148+00
 TO
 STA 151+50

CE-103
 9 OF 52

GRDE XX-XXXX	
KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



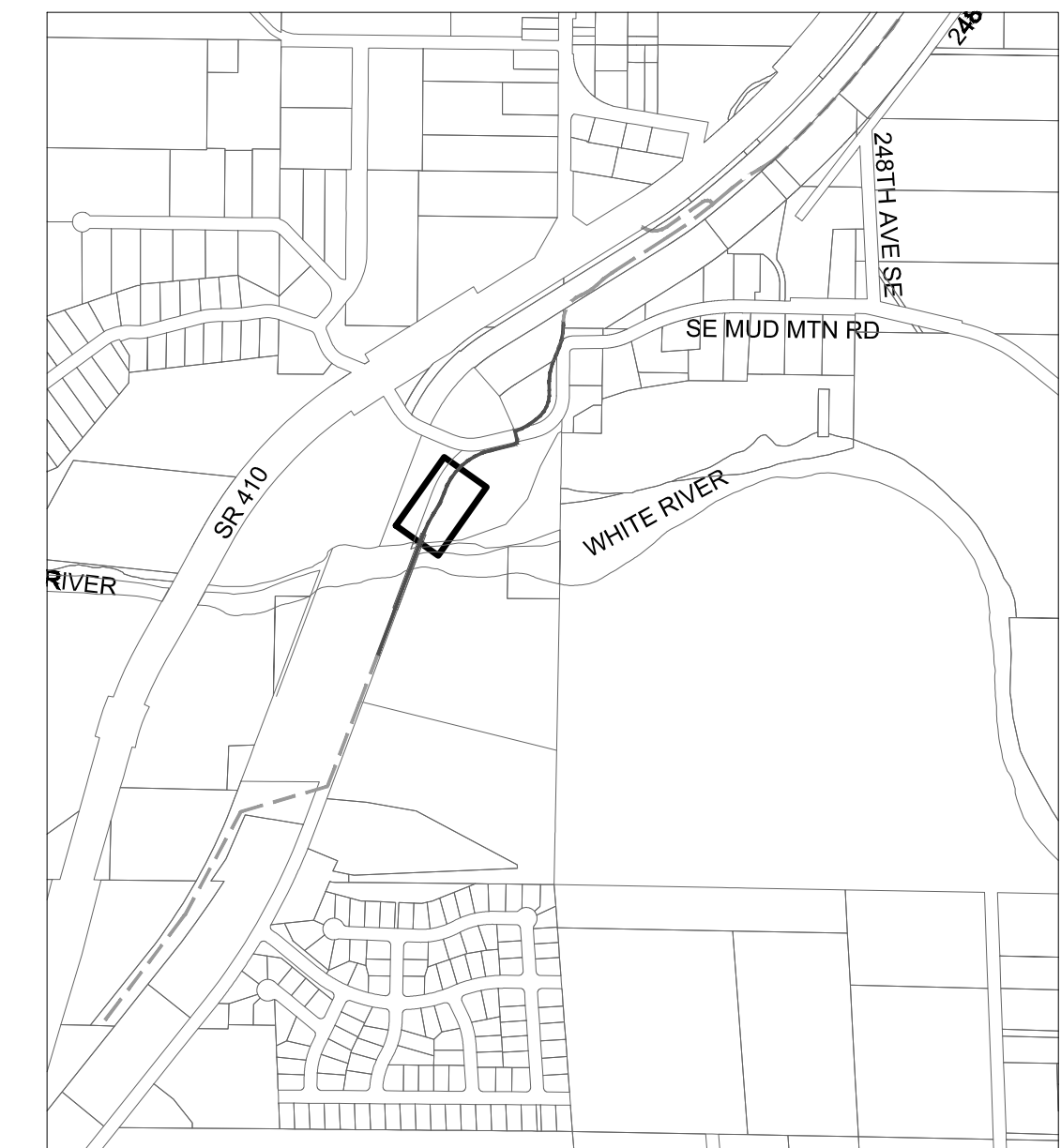
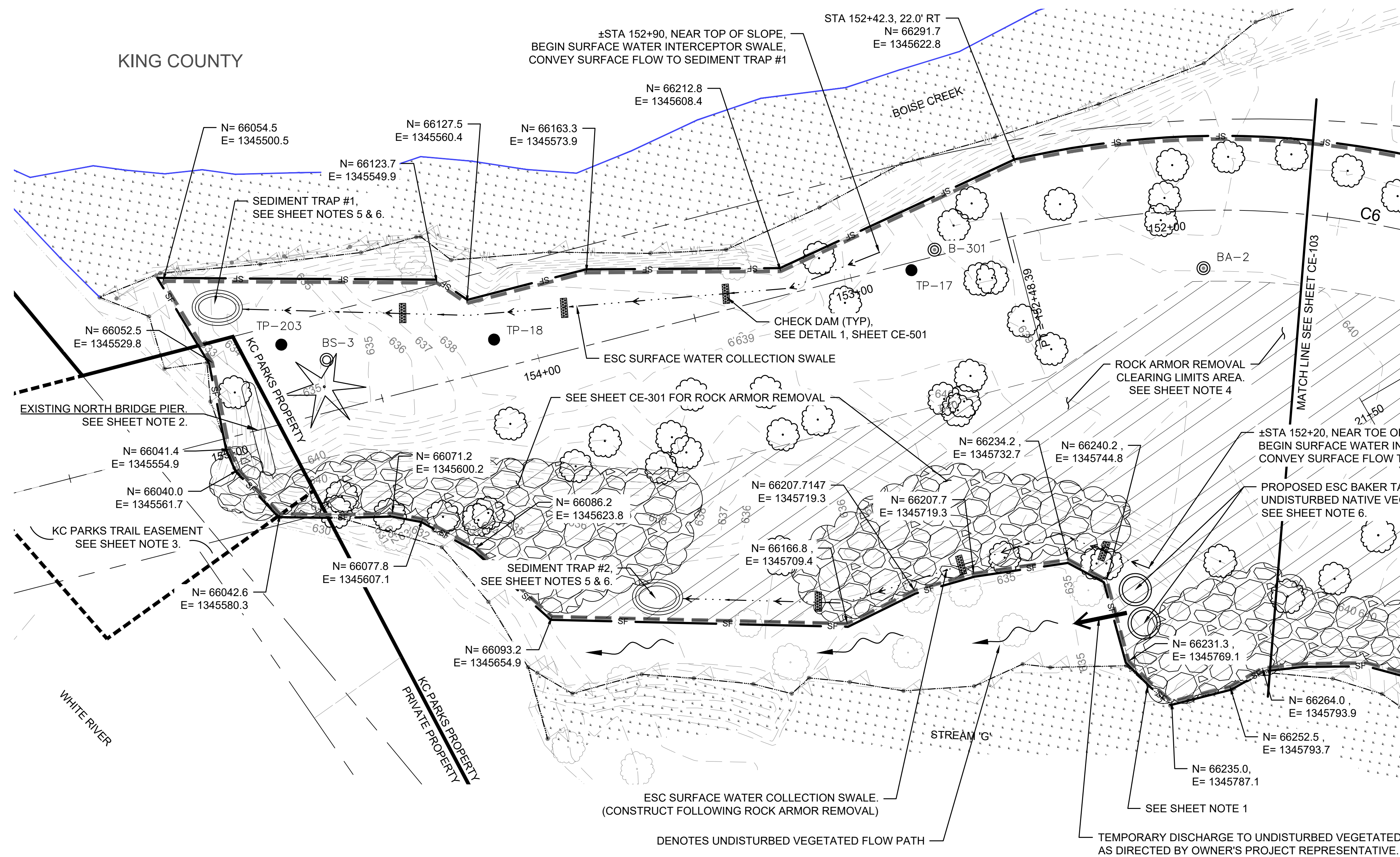
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KEY MAP

LEGEND

- CLEARING LIMITS
- - - PERIMETER PROTECTION (SILT FENCE/WATTLE)
- ★ TREES TO BE REMOVED
- TP-# TEST PIT #
- BA/BS-# BORING #

NOTES

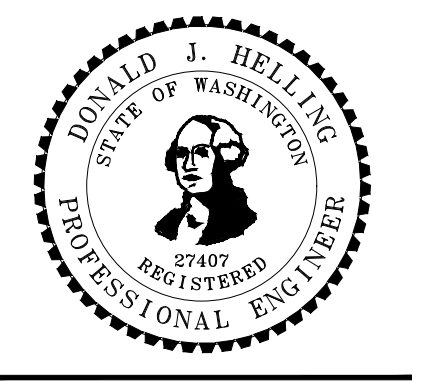
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3. REMOVE BRANCHES GROWING TO 12 FEET ABOVE THE GROUND SURFACE WITHIN THE SILT FENCE/ CLEARING LIMITS AREA. CUT CLEAN AND FLUSH TO TRUNK OF TREE.

SHEET NOTES

1. CLEARING LIMITS TO BE FIELD ADJUSTED AS NEEDED TO BE LOCATED OUTSIDE OF THE DELINEATED OHWM. ALL ROCK ARMOR REMOVAL SHALL BE CLEARLY LOCATED OUTSIDE OF THE STREAM / RIVER DELINEATION.
2. SEE WHITE RIVER BRIDGE PLANS FOR EXISTING NORTH BRIDGE PIER DEMOLITION AND NEW CONCRETE BRIDGE PIER DRILLED SHAFTS, COLUMNS AND CAP SCOPE OF WORK. THE CONTRACTOR SHALL SUBMIT FOR REVIEW A CONSTRUCTION WORK PLAN FOR THE EXISTING NORTH BRIDGE PIER DEMOLITION AND NEW CONCRETE BRIDGE PIER SCOPE OF WORK. THE WORK PLAN SHALL BE SITE SPECIFIC AND SHALL ILLUSTRATE HOW THE WORK WILL BE PERFORMED AND MEET THE CONDITIONS OF THE PERMIT(S).
3. KING COUNTY PARKS TRAIL IMPROVEMENTS CROSSING PARCEL # 3420069026 WITHIN TRAIL ACCESS EASEMENT RECORDING NUMBER 20160720001288.
4. ADDITIONAL ROCK ARMOR REMOVAL CLEARING LIMIT AREAS (SHOWN HATCH) THAT IS LOCATED OUTSIDE OF THE TRAIL IMPROVEMENTS CLEARING LIMITS AREA. THE ROCK ARMOR REMOVAL SCOPE OF WORK IS REFERENCED IN THE KING COUNTY PARKS TRIBAL SEPA COMMENT LETTER DATED APRIL 18, 2018 TO THE MUCKLESHOOT INDIAN TRIBE.
5. CONTRACTOR SHALL INSTALL SEDIMENT TRAP TO COLLECT SURFACE RUNOFF AT LOW POINT(S) OF DISTURBED GROUND SURFACE. SEDIMENT TRAP LOCATION, SIZE AND SHAPE ARE SHOWN AS ILLUSTRATION ONLY. THE SEDIMENT TRAP SHALL BE CONSTRUCTED TO FIT THE SITE CONDITIONS AND SHALL PROVIDE A MINIMUM 60 SQUARE FEET OF SURFACE AREA. SEE DETAIL 2 ON SHEET CE-501 FOR MORE REQUIREMENTS.
6. SURFACE WATER FROM DISTURBED AREAS SHALL BE ROUTED TO SEDIMENT RETENTION FACILITIES TO REMOVE SEDIMENT BEFORE BEING RELEASED FROM THE SITE. NATIVE SOIL CONDITIONS (SANDY GRAVEL) INDICATE INFILTRATION MAY OCCUR WITHIN THE TEMPORARY CONVEYANCE SWALES AND SEDIMENT TRAPS. PROVISIONS FOR PUMPING COLLECTED SURFACE WATER TO A RUNOFF SEDIMENT CONTAINMENT STORAGE TANK (BAKER TANK) AND / OR VEGETATED FLOW PATH TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT LEAVE THE CONSTRUCTION SITE OR VIOLATE APPLICABLE WATER STANDARDS. THE CONTRACTOR SHALL MONITOR DISCHARGE TO CONFIRM THAT SEDIMENT-LADEN WATER DOES NOT LEAVE THE CONSTRUCTION SITE.

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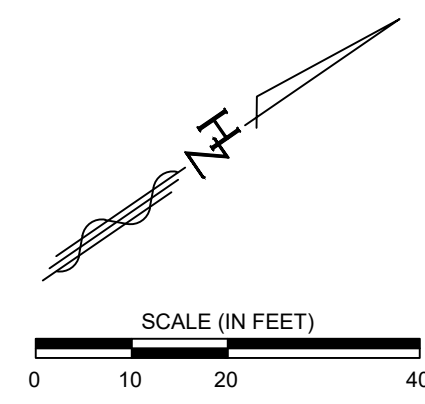
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 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
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△	12/30/2020	65% SUBMITTAL
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PROJECT NO.	15095305
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CONTRACT NO.	E00115E08 - AM. 20
DRAWN BY	VUL
CHECKED BY	GS
SHEET TITLE	

EROSION CONTROL PLAN
 STA 151+50
 155+00

CE-104



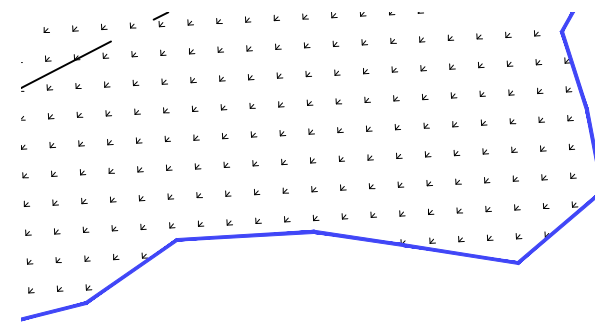
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KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

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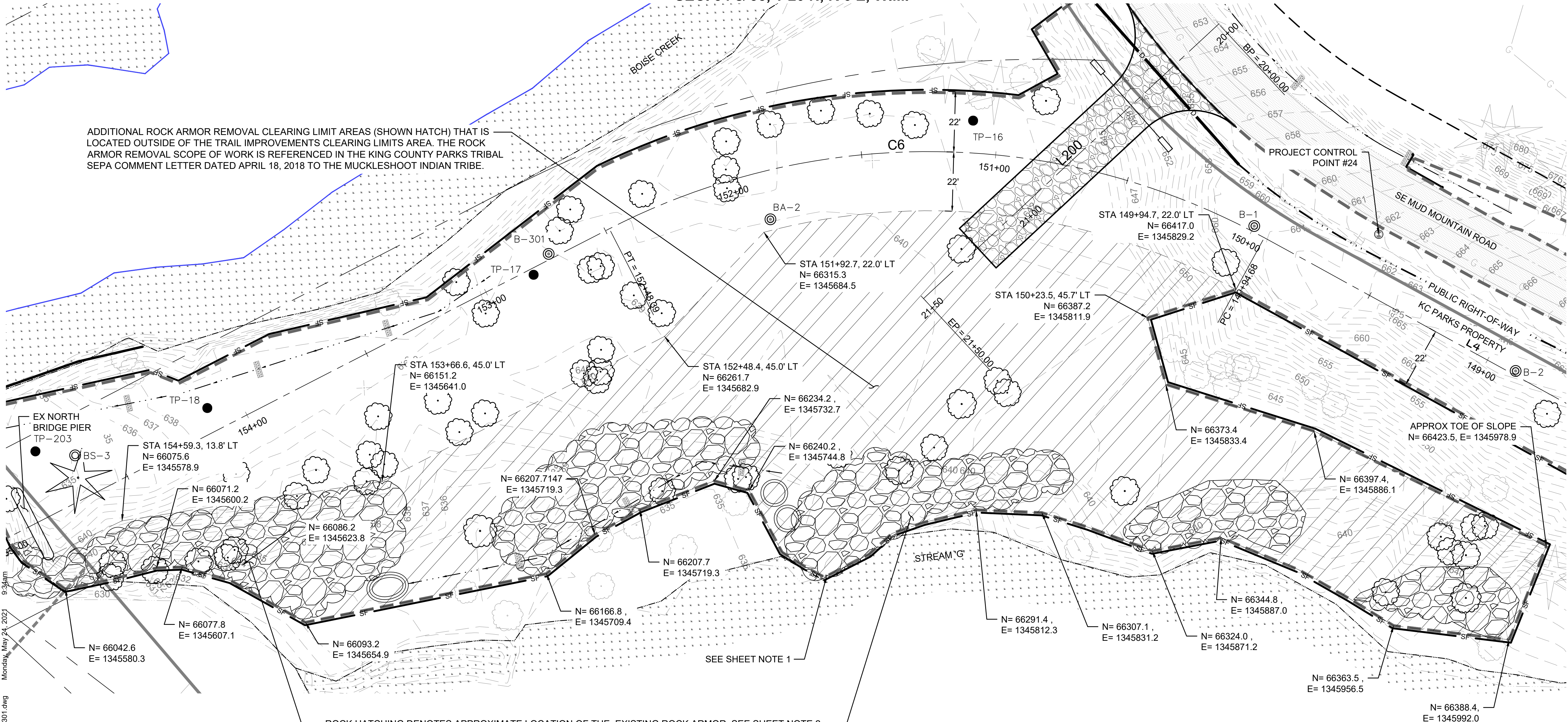


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ADDITIONAL ROCK ARMOR REMOVAL CLEARING LIMIT AREAS (SHOWN HATCH) THAT IS LOCATED OUTSIDE OF THE TRAIL IMPROVEMENTS CLEARING LIMITS AREA. THE ROCK ARMOR REMOVAL SCOPE OF WORK IS REFERENCED IN THE KING COUNTY PARKS TRIBAL SEPA COMMENT LETTER DATED APRIL 18, 2018 TO THE MUCKLESHOOT INDIAN TRIBE.



SHEET NOTES

- ROCK ARMOR CLEARING LIMITS TO BE FIELD ADJUSTED AS NEEDED TO BE LOCATED OUTSIDE OF THE DELINEATED OHWM. ALL ROCK ARMOR REMOVAL SHALL BE CLEARLY LOCATED OUTSIDE OF THE STREAM / RIVER DELINEATION.
- APPROXIMATE LIMITS OF THE EXISTING ROCK ARMOR TO BE REMOVED ARE SHOWN. THE CONTRACTOR SHALL WORK WITH THE OWNER'S PROJECT REPRESENTATIVE TO VERIFY AND FLAG THE LIMITS OF THE ROCK ARMOR SUBJECT FOR REMOVAL.
- TREES REMOVED WITHIN THE CLEARING LIMITS SHALL BE USED AS HABITAT LOGS, SEE MITIGATION PLANS.
- SMALL LOGS, BRANCHES AND LIMBS FROM ON-SITE REMOVED TREES SHALL BE USED TO CONSTRUCT FINE WOODY DEBRIS PILES, SEE MITIGATION PLANS.

NOTES

- PERIMETER PROTECTION (SILT FENCE/WATTLE) SHOWN OFFSET FROM CLEARING LIMITS FOR LEGIBILITY ONLY. PERIMETER PROTECTION SHALL BE PLACED AT CLEARING LIMIT LINE WHERE INDICATED.
- KEEP ALL CONSTRUCTION EQUIPMENT, MATERIALS, AND ACTIVITIES WITHIN THE SILT FENCE/ CLEARING LIMITS AREA.
- REMOVE BRANCHES GROWING TO 12 FEET ABOVE THE GROUND SURFACE WITHIN THE SILT FENCE/ CLEARING LIMITS AREA. CUT CLEAN AND FLUSH TO TRUNK OF TREE.

LEGEND

- CLEARING LIMITS
- PERIMETER PROTECTION (SILT FENCE/ WATTLE)
- TREES TO BE REMOVED
- TEST PIT #
- BORING #

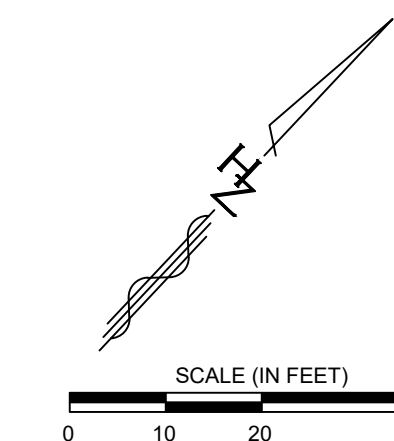
ROCK HATCHING DENOTES APPROXIMATE LOCATION OF THE EXISTING ROCK ARMOR, SEE SHEET NOTE 2.

SEE SHEET NOTE 1



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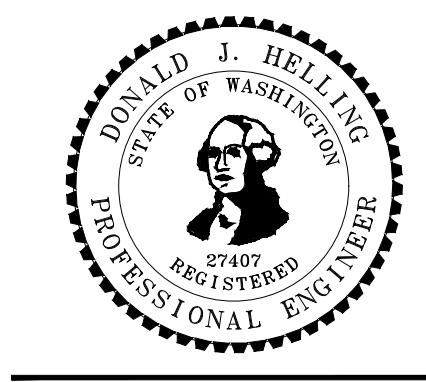
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Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

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FOOTHILLS TRAIL
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KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
CONTRACT # C---

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	△	12/30/2020	65% SUBMITTAL
	△	5/24/2021	90% SUBMITTAL

PROJECT NO.	15095305
SITE NO.	
FILE	
CONTRACT NO.	E00115E08 - AM. 20
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SHEET TITLE	

EROSION CONTROL PLAN
ROCK ARMOR REMOVAL

CE-301

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KING COUNTY ESC PLAN NOTES: (*)

- APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT CONTRACTOR'S/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED; PRIOR TO CONSTRUCTION (SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT CONTRACTOR'S/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEM OR WASH PADS MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACT OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.)
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT CONTRACTOR'S/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING DRY SEASON (MAY 1 TO SEPT. 30).
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH APPROVED ESC METHODS (E.G. SEEDING, MULCHING, PLASTIC COVERING, ETC.)
- ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING THE WET SEASON, OR WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- ANY PERMANENT RETENTION/DETENTION FACILITIES USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
- COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE SURFACE WATER DESIGN MANUAL.
- PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DPER INSPECTOR. THE DPER INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.

KING COUNTY (ESC) CONSTRUCTION SEQUENCE: (*)

- HOLD THE PRE-CONSTRUCTION MEETING.
- POST A SIGN WITH THE NAME AND PHONE NUMBER OF THE ESC SUPERVISOR (MAY BE CONSOLIDATED WITH THE REQUIRED NOTICE AND CONSTRUCTION SIGN).
- FLAG OR FENCE CLEARING LIMITS.
- INSTALL CATCH BASIN PROTECTION, IF REQUIRED.
- GRADE AND INSTALL CONSTRUCTION ENTRANCE.
- INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
- CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
- MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH KING COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- RELOCATE SURFACE WATER CONTROLS OR EROSION CONTROL MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE KING COUNTY EROSION AND SEDIMENT CONTROL STANDARDS.
- COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.
- SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
- UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMPs IF APPROPRIATE.

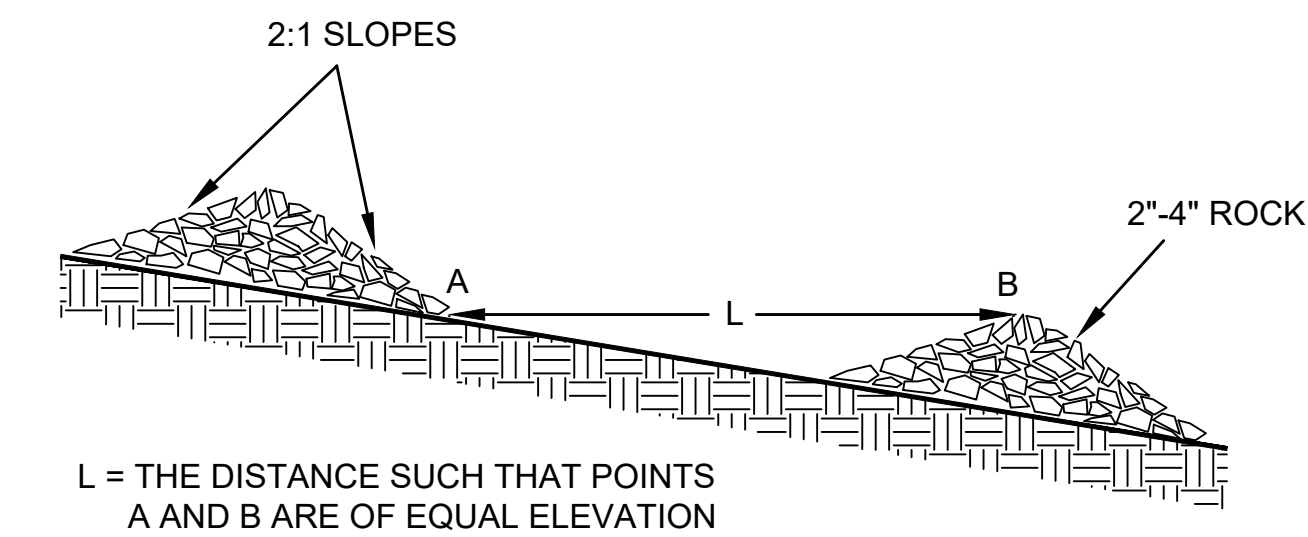
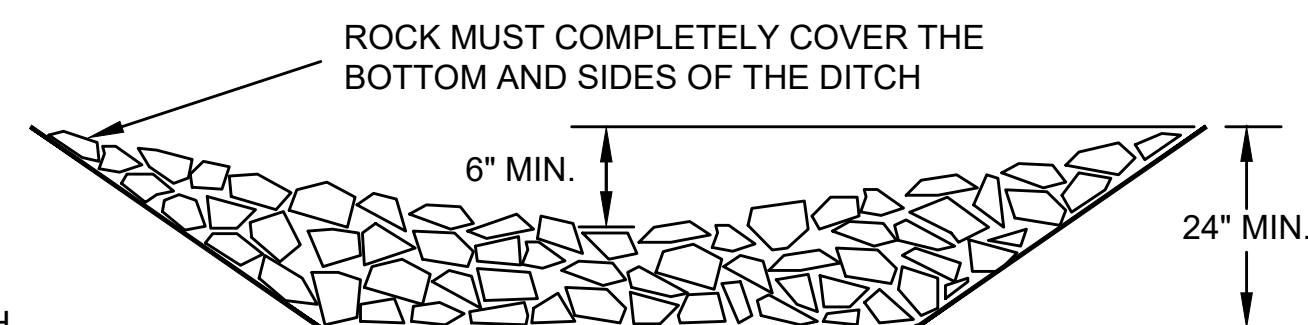


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(*) NOTE:
NOTES REFERENCE KING COUNTY SURFACE WATER DESIGN MANUAL, DATED APRIL 24, 2016

EDITS TO KING COUNTY STANDARD NOTES BY HUITT-ZOLLARS ARE INDICATED BY UNDERLINING (ADDITIONS) OR STRICKEN THROUGH (DELETIONS).



1 CHECK DAMS
CE501 (NTS) REFERENCE: 2016 KING CO. SURFACE WATER DESIGN MANUAL, FIG. D.2.1.6.E

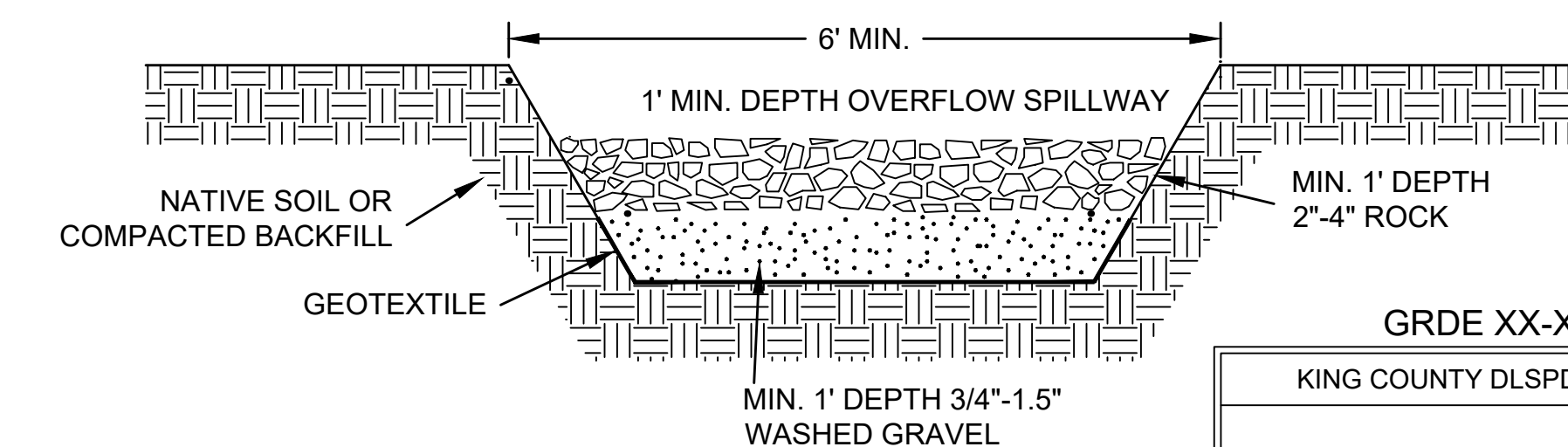
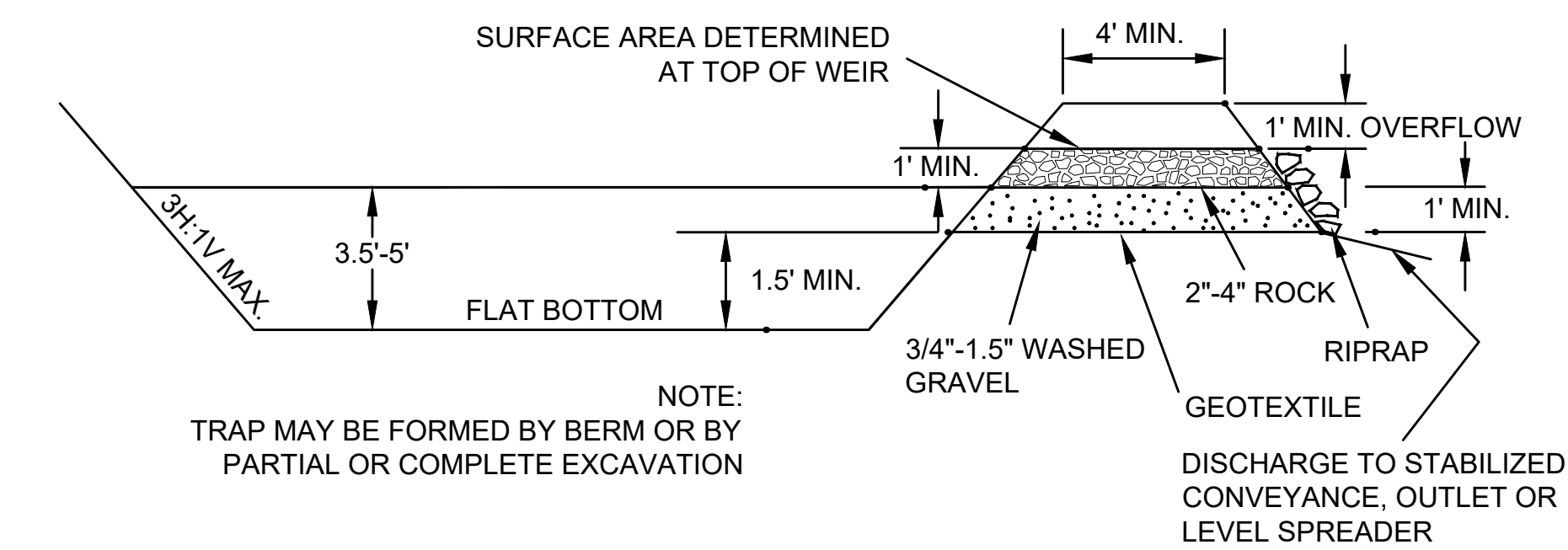
PROJECT NOTES:

- THE CONTRACTOR SHALL INSTALL, MAINTAIN AND UPON COMPLETION OF THE PROJECT, REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL FEATURES.
- EXISTING UTILITIES SHOWN ARE BASED ON A FIELD SURVEY AND ARE ALSO SUPPLEMENTED WITH AVAILABLE RECORDS.
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL CALL 811 "CALL BEFORE YOU DIG" FOR EXISTING UTILITY LOCATIONS. "CALL BEFORE YOU DIG" MUST BE NOTIFIED WITHIN TEN WORKING DAYS PRIOR TO EXCAVATION AT A PARTICULAR LOCATION.
- THE CONTRACTOR SHALL INSTALL TEMPORARY (MOVABLE) CONSTRUCTION CHAIN-LINK FENCING AND GATES AS NEEDED TO SECURE MATERIALS AND EQUIPMENT WITHIN THE CONSTRUCTION LIMITS AND DESIGNATED STAGING AREAS DURING BOTH WORKING AND NON-WORKING HOURS. CONSTRUCTION ACCESS LOCATIONS WILL REQUIRE TEMPORARY CONSTRUCTION FENCE/ GATES AS NEEDED TO SECURE THE SITE AND PREVENT PUBLIC VEHICLE ACCESS TO THE WORK AREAS.
- THE CONTRACTOR SHALL CLEARLY MARK CONSTRUCTION LIMITS PERIMETER WITH BRIGHT COLORED SURVEY FLAGGING SET 3 TO 6 FEET HIGH SUPPORTED WITH VEGETATION OR ANCHOR POST. IF SURVEY FLAGGING DOES NOT ADEQUATELY IDENTIFY APPROVED CONSTRUCTION LIMITS, ADDITIONAL CONSTRUCTION LIMITS FENCING (SEE DETAIL 4, SHEET CE-502) WILL BE REQUIRED.
- CONTRACTOR SHALL FURNISH AND MAINTAIN DEWATERING DEVICES THAT MAY BE REQUIRED BY THE WORK. DEWATERING WATER DISCHARGE FROM THE WORK AREA SHALL BE FREE FROM SILTS, SEDIMENT AND DEBRIS. IF REQUIRED, DISCHARGE WATER SHALL BE MADE CLEAR BY USE OF FILTERS, A BAKER TANK AND/OR OTHER MEANS, AT THE CONTRACTOR'S EXPENSE. SEE PROJECT MANUAL FOR GEOTECHNICAL REPORT.
- AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN WHAT WAS PRESENT PRIOR TO CONSTRUCTION AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL RESTORE/REPAIR DAMAGE TO HAUL ROUTES AND STAGING AREAS RESULTING FROM THEIR ACTIVITIES AND THE ACTIVITIES OF THEIR VENDORS, SUPPLIERS, AND SUBCONTRACTORS, AT THEIR EXPENSE.

TEMPORARY EROSION CONTROL SEED MIX (*)			
SEED TYPE	% WEIGHT	% PURITY	% GERMINATION
CHEWINGS OR RED FESCUE	40	98	90
ANNUAL OR PERENNIAL RYE	40	98	90
REDTOP OR COLONIAL BENTGRASS	10	92	85
WHITE DUTCH CLOVER	10	98	90

SEED SHALL BE APPLIED AT A RATE OF 120 POUNDS PER ACRE

3 TEMPORARY EROSION CONTROL SEED MIX
CE501 (NTS) (*) REFERENCE: 2016 KING CO. SURFACE WATER DESIGN MANUAL, TABLE D.2.1.2.B



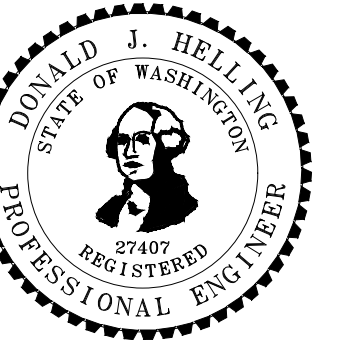
2 SEDIMENT TRAP
CE501 (NTS) REFERENCE: 2016 KING CO. SURFACE WATER DESIGN MANUAL, FIG. D.2.1.5.A



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PHASE II SEGMENT B
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CONTRACT # C---

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	△	12/30/2020	65% SUBMITTAL
	△	5/24/2021	90% SUBMITTAL

PROJECT NO. 15095305
SITE NO.
FILE
CONTRACT NO. E00115E08 - AM. 20
DRAWN BY VUL CHECKED BY GRS
SHEET TITLE

EROSION CONTROL NOTES AND DETAILS

GRDE XX-XXXX KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

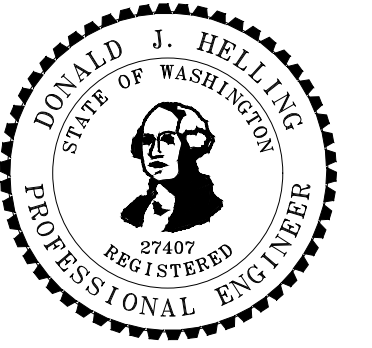
CE-501



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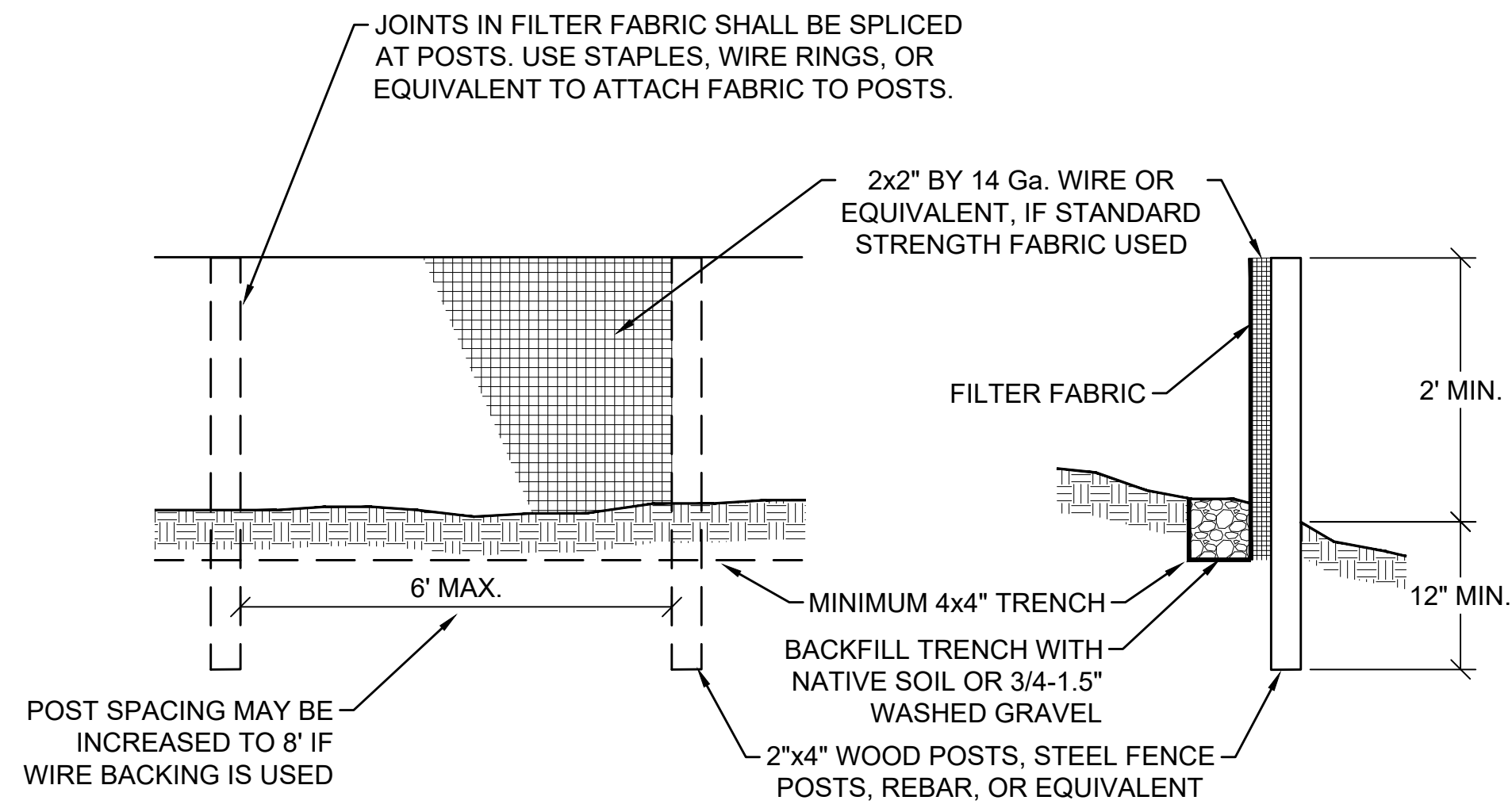
HUTT-ZOLLARS
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△	5/24/2021	90% SUBMITTAL

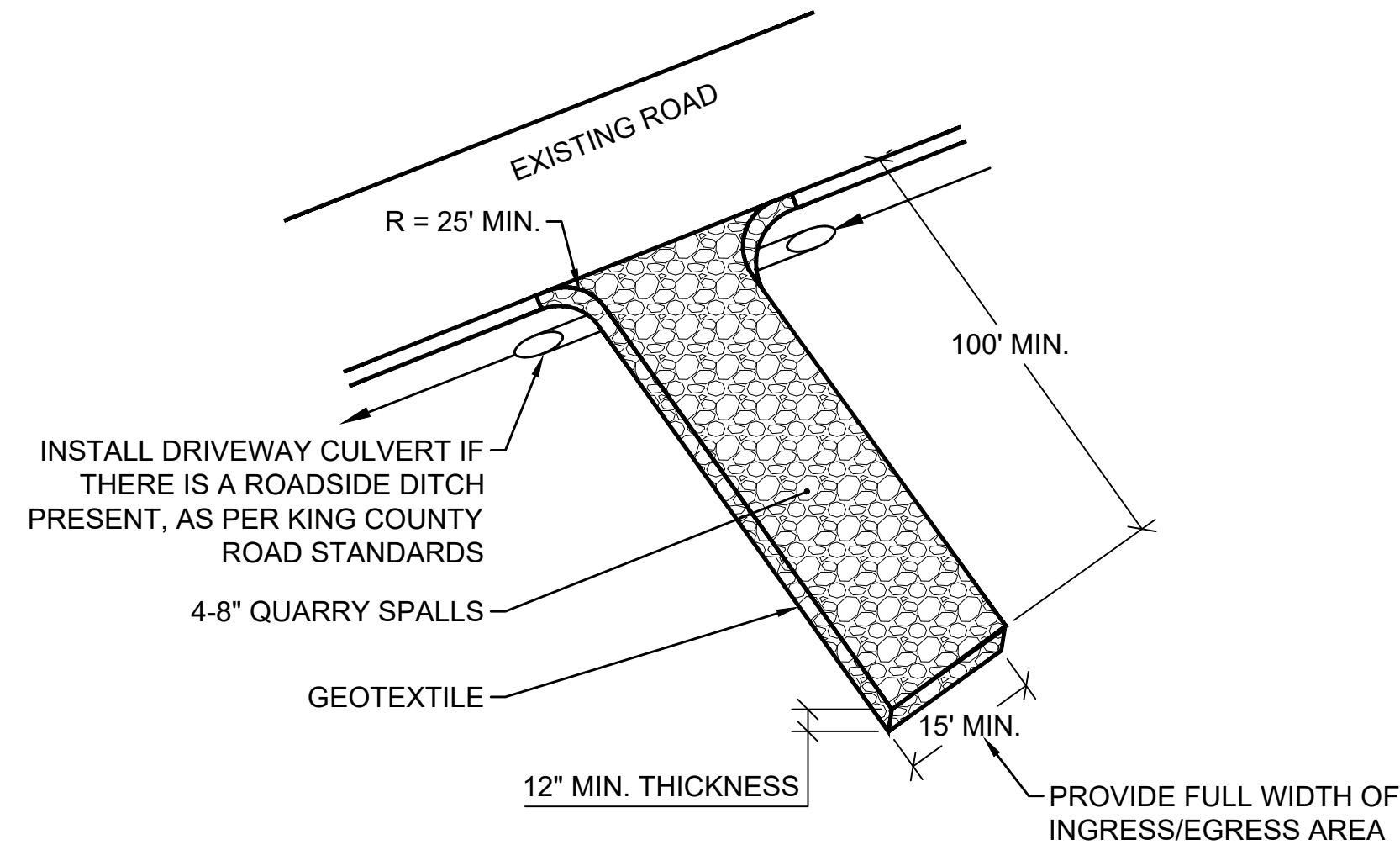
PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY VUL CHECKED BY GRS
 SHEET TITLE
EROSION CONTROL DETAILS



- NOTES:
1. FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE

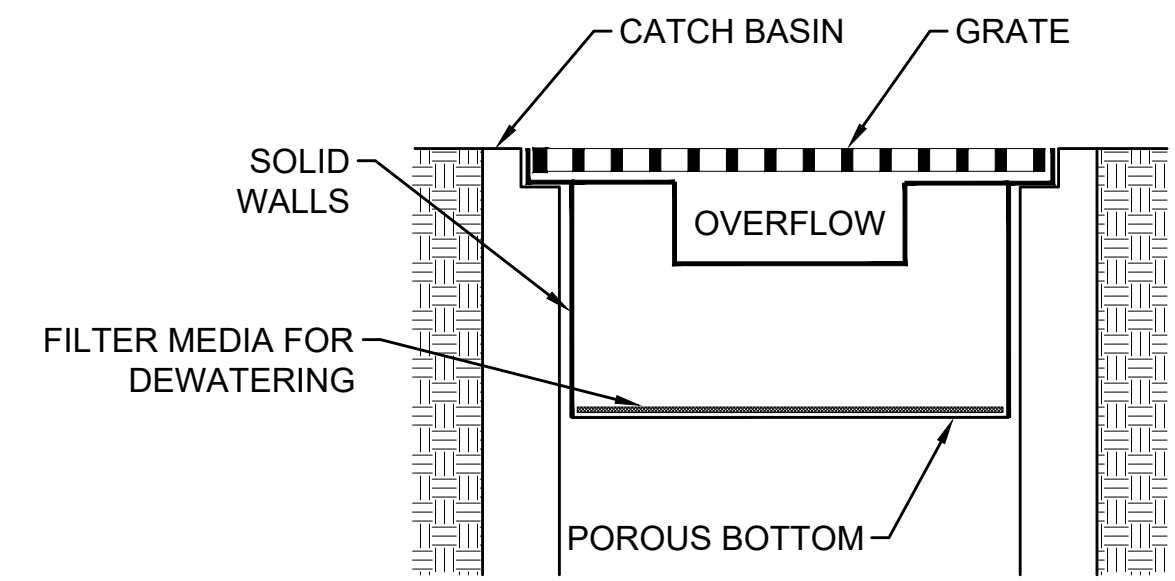
REFERENCE: 2016 KING CO. SURFACE WATER DESIGN MANUAL, FIG. D.2.1.3.A

1 HIGH VISIBILITY SILT FENCE (PERIMETER PROTECTION)
CE502 (NTS)



REFERENCE: 2016 KING CO. SURFACE WATER DESIGN MANUAL, FIG. D.2.1.4.A

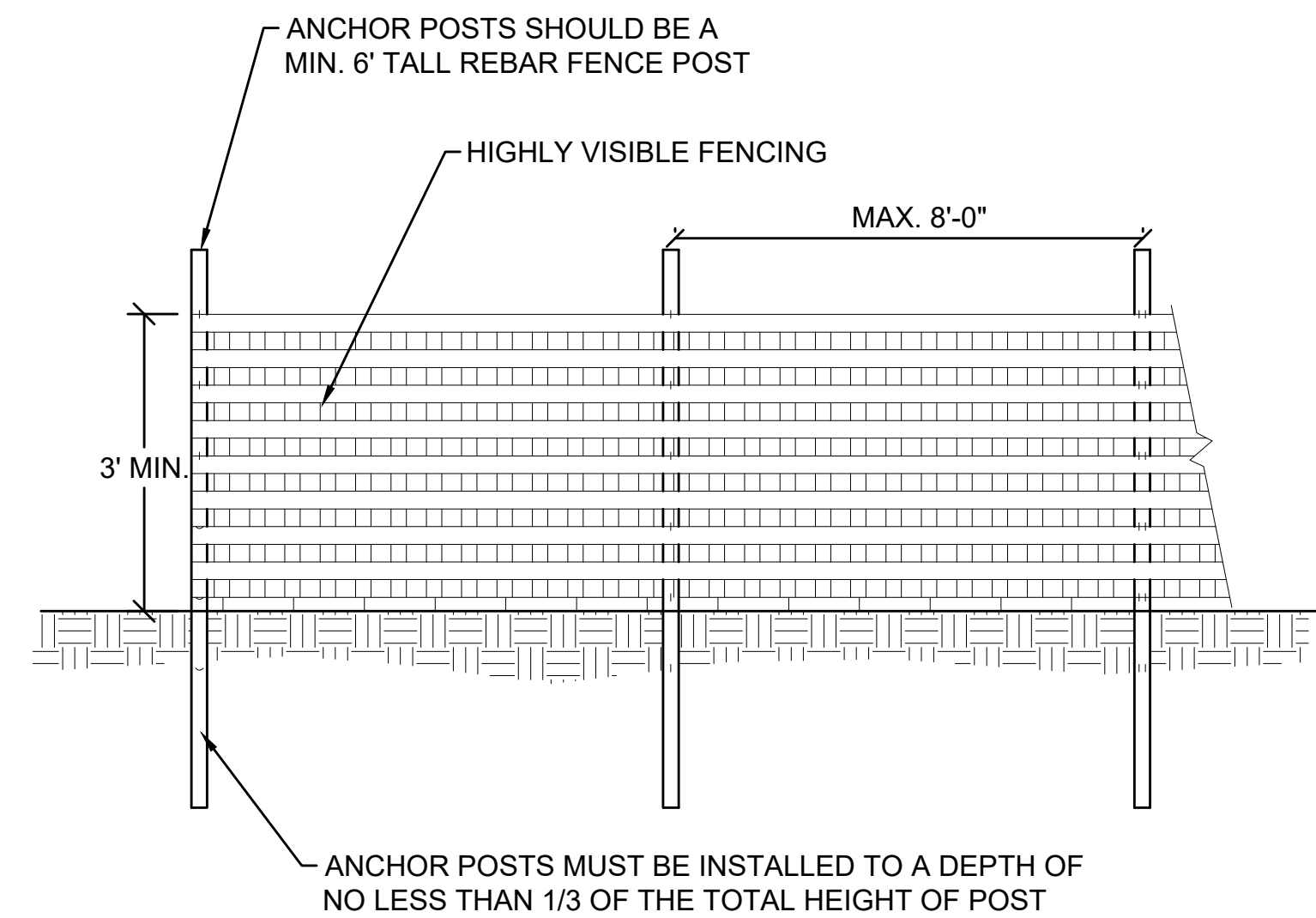
2 STABILIZED CONSTRUCTION ENTRANCE
CE502 (NTS)



- NOTES:
1. THIS DETAIL IS ONLY SCHEMATIC. ANY INSERT IS ALLOWED THAT HAS A MIN. 0.5 C.F. OF STORAGE, THE MEANS TO DEWATER THE STORED SEDIMENT, AN OVERFLOW, AND CAN BE EASILY MAINTAINED.
 2. INLET PROTECTION SHALL BE TEMPORARILY INSTALLED AND MAINTAINED ON NEWLY CONSTRUCTED CATCH BASIN WITH GRATED LID

REFERENCE: 2016 KING CO. SURFACE WATER DESIGN MANUAL, FIG. D.2.1.5.F

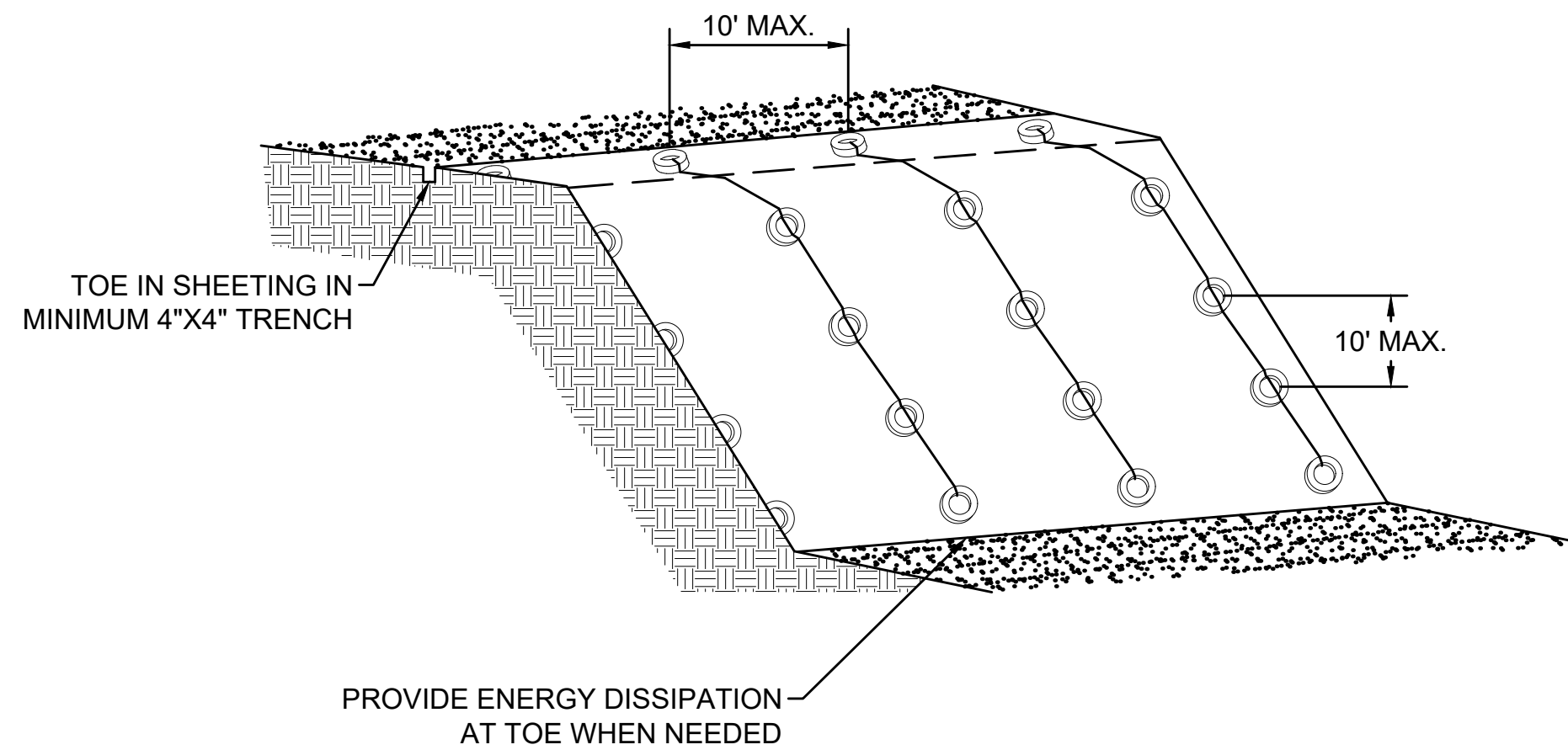
3 INLET PROTECTION
CE502 (NTS)



- NOTES:
1. WITH THE CLEARING LIMITS BEING PRIMARILY LOCATED WITHIN CRITICAL AREAS AND THEIR BUFFERS, DETAIL 4 WILL BE REQUIRED TO PREVENT ENCROACHMENT INTO THE AREAS THAT ARE NOT TO BE DISTURBED.
 2. THE CLEARING LIMITS FENCING SHALL NOT BE WIRED OR STAPLED TO TREES.

REFERENCE: 2016 KING CO. SURFACE WATER DESIGN MANUAL, SECTION D.2.1.1

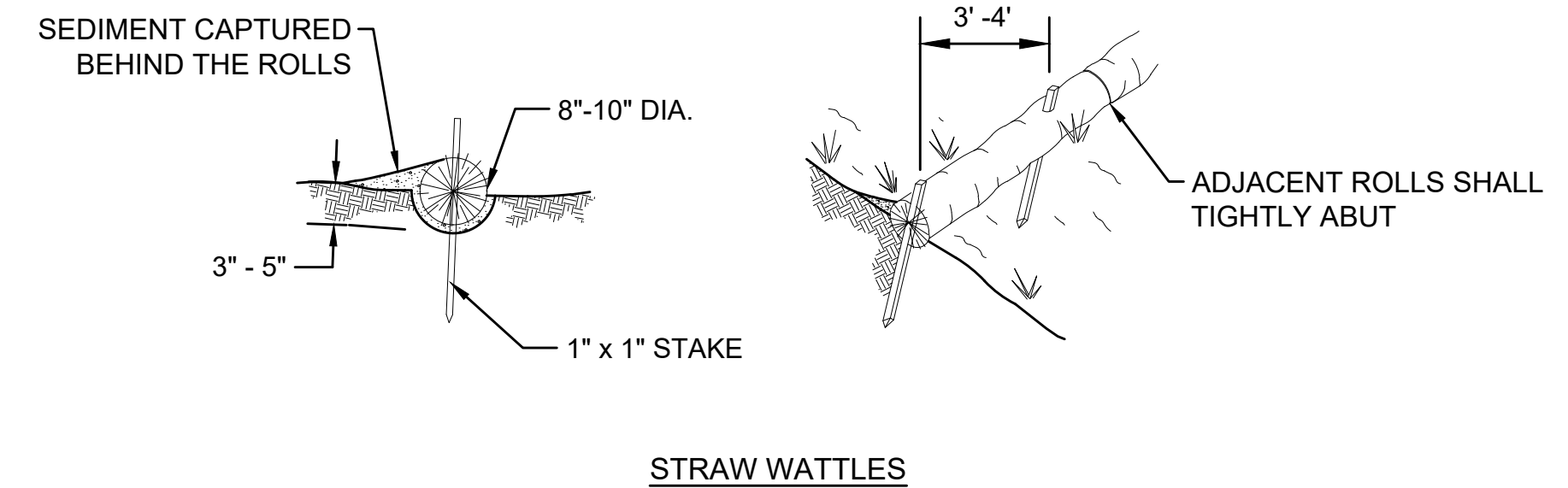
4 CONSTRUCTION LIMIT FENCE
CE502 (NTS)



- NOTES:
1. TIRES, SANDBAGS, OR EQUIVALENT MAY BE USED TO WEIGHT PLASTIC
 2. SEAMS BETWEEN SHEETS MUST OVERLAP A MINIMUM OF 12\"/>

REFERENCE: 2016 KING CO. SURFACE WATER DESIGN MANUAL, FIG. D.2.1.2.D

5 PLASTIC COVERING
CE502 (NTS)



- NOTES:
1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3\"/>
 - 2. DRIVE STAKE THROUGH MIDDLE OF WATTLE, LEAVING 2\"/>
 - 3. SEE PLAN FOR LOCATION AND SPACING OF STRAW WATTLES USED FOR SLOPE STABILIZATION.
 - 4. STRAW WATTLES MAY BE USED ALONG THE PERIMETER OF THE PROJECT FOR SEDIMENT CONTAINMENT WHERE MINOR RUNOFF IS EXPECTED. HIGH VISIBILITY SILT FENCE, DETAIL 1, WILL BE REQUIRED IF SEDIMENT IS NOT CONTAINED.

REFERENCE: 2016 KING CO. SURFACE WATER DESIGN MANUAL, FIG. D.2.1.2.E

6 STRAW WATTLES (PERIMETER PROTECTION)
CE502 (NTS)



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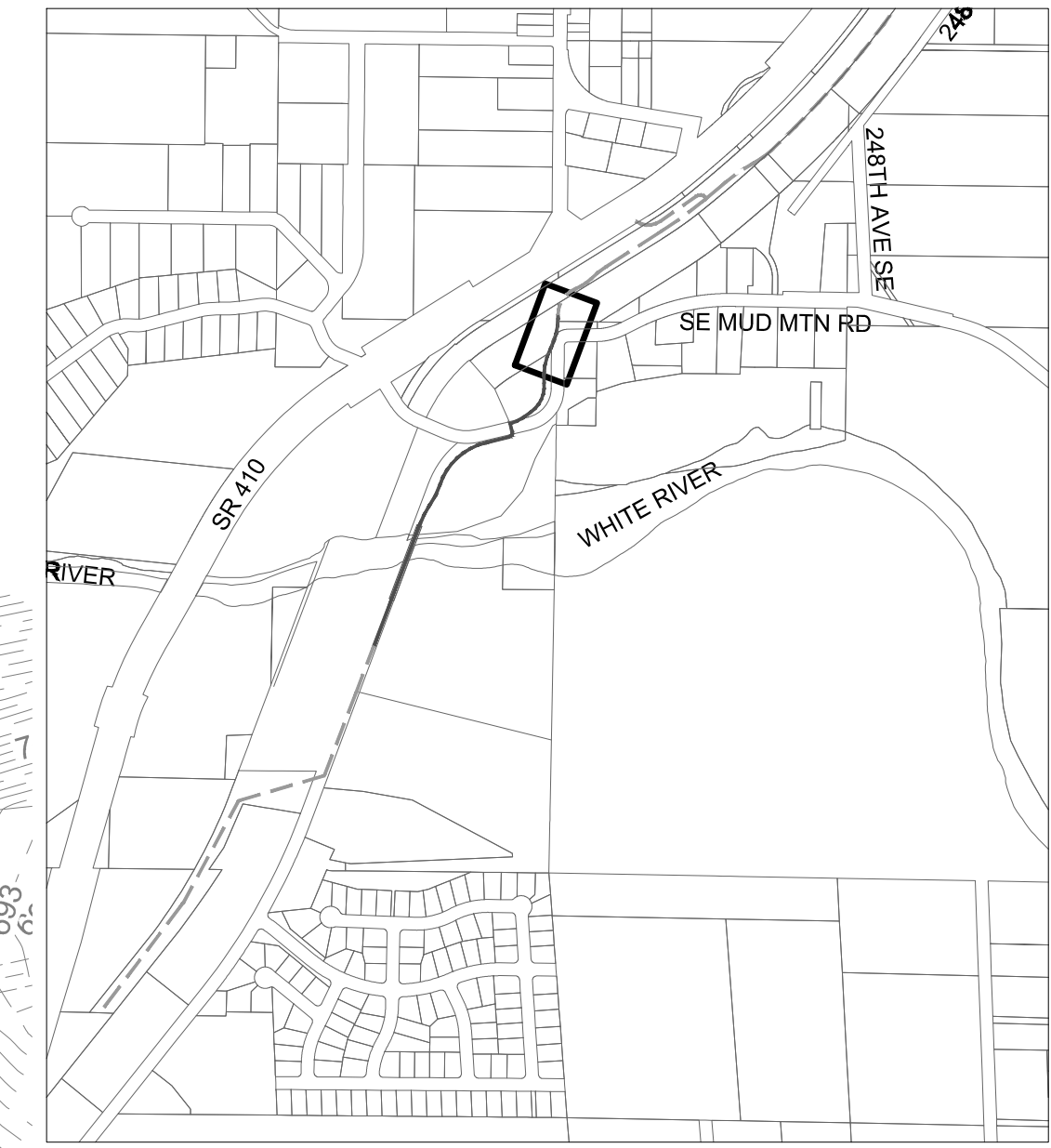
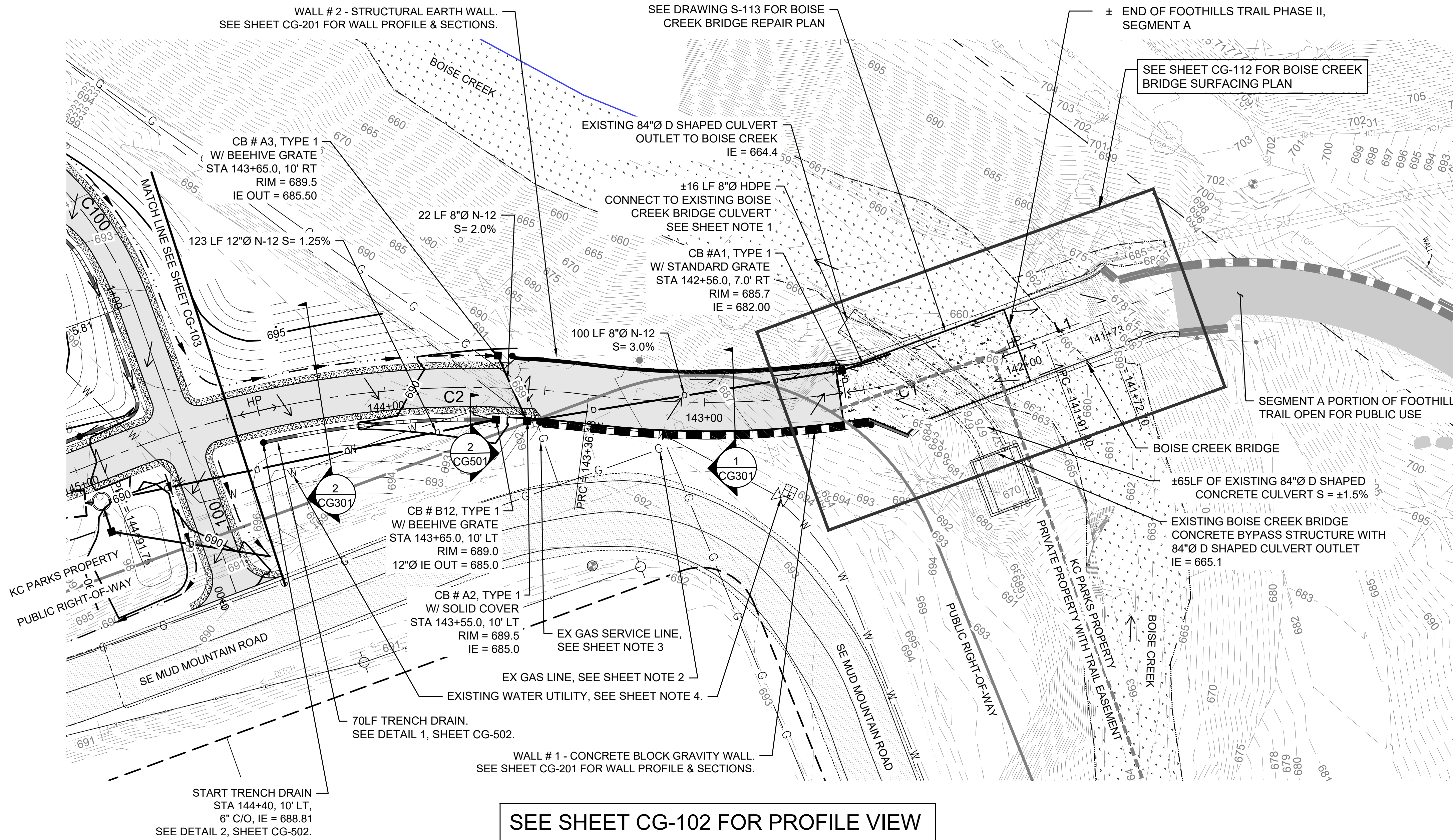
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KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

CE-502

SEC. 34 & 35, T 20 N, R 6 E, W.M.

SEE SHEET CG-112 FOR BRIDGE SURFACING PLAN



KEY MAP

LEGEND (PROPOSED)

- [Symbol] PAVED ASPHALT SURFACE
- [Symbol] GRAVEL SURFACE
- [Symbol] RETAINING WALL, CUT SECTION SEE STRUCTURAL SHEETS
- [Symbol] RETAINING WALL, FILL SECTION SEE STRUCTURAL SHEETS
- [Symbol] HP HIGH POINT
- [Symbol] LP LOW POINT
- [Symbol] FLOW ARROW
- [Symbol] CROSS SLOPE TRANSITION
- [Symbol] SWALE/ DITCH FLOW LINE
- [Symbol] ELEV PROPOSED CONTOUR MAJOR
- [Symbol] ELEV PROPOSED CONTOUR MINOR
- [Symbol] PROPOSED TRENCH DRAIN
- [Symbol] D PROPOSED STORM PIPE



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 CONTRACT NO. E00115E08 - AM. 20
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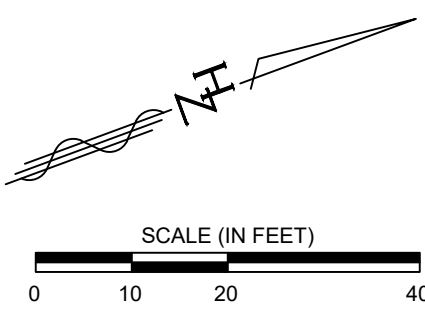
GRADING PLAN
 BOISE CREEK BRIDGE TO STA 144+50

CG-101
 14 OF 52

SHEET NOTES

- CONNECT STORM DRAIN OUTLET TO THE EXISTING CONCRETE CULVERT LOCATED BELOW THE EXISTING BOISE CREEK BRIDGE DECK. DRAINAGE WORK TO BE COORDINATED WITH BRIDGE REPAIR AND WALL #2 CONSTRUCTION. EXCAVATE DOWN TO TOP OF EXISTING CONCRETE D-SHAPE CULVERT AND CORE DRILL THROUGH TOP OF THE CONCRETE CULVERT AND CONNECT THE 8"Ø OUTLET NEAR THE TOP OF THE EXISTING CONCRETE CULVERT STRUCTURE, IE = ± 669.0. SEE PROFILE AND ADDITIONAL NOTES OF SHEET CG-102.
- THE CONTRACTOR SHALL COORDINATE WITH CITY OF ENUMCLAW WITH REGARD TO THE CONSTRUCTION OF WALL #1 ADJACENT TO THE CITY'S EXISTING NATURAL GAS LINE. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF THE NATURAL GAS LINE WITH THE CITY OF ENUMCLAW IF THE PIPELINE IS ENCOUNTERED AND RELOCATION DEEMED NECESSARY.
- RECORDS INDICATE THAT CONSTRUCTION EXCAVATION ACTIVITIES WILL ENCOUNTER AN EXISTING GAS SERVICE LINE THAT IS NO LONGER IN SERVICE. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH THE CITY OF ENUMCLAW IN ORDER TO IDENTIFY THE LOCATION AND PROPER ABANDONMENT OF THIS GAS SERVICE LINE NO LONGER IN SERVICE.
- EXISTING CITY OF ENUMCLAW WATER MAIN. SEE SHEET CU-101 FOR WATER MAIN REVISION AND CONSTRUCTION OF NEW WATER SERVICE FOR HOUSE #24316.

SEE SHEET CG-102 FOR PROFILE VIEW



GRDE XX-XXXX	
KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

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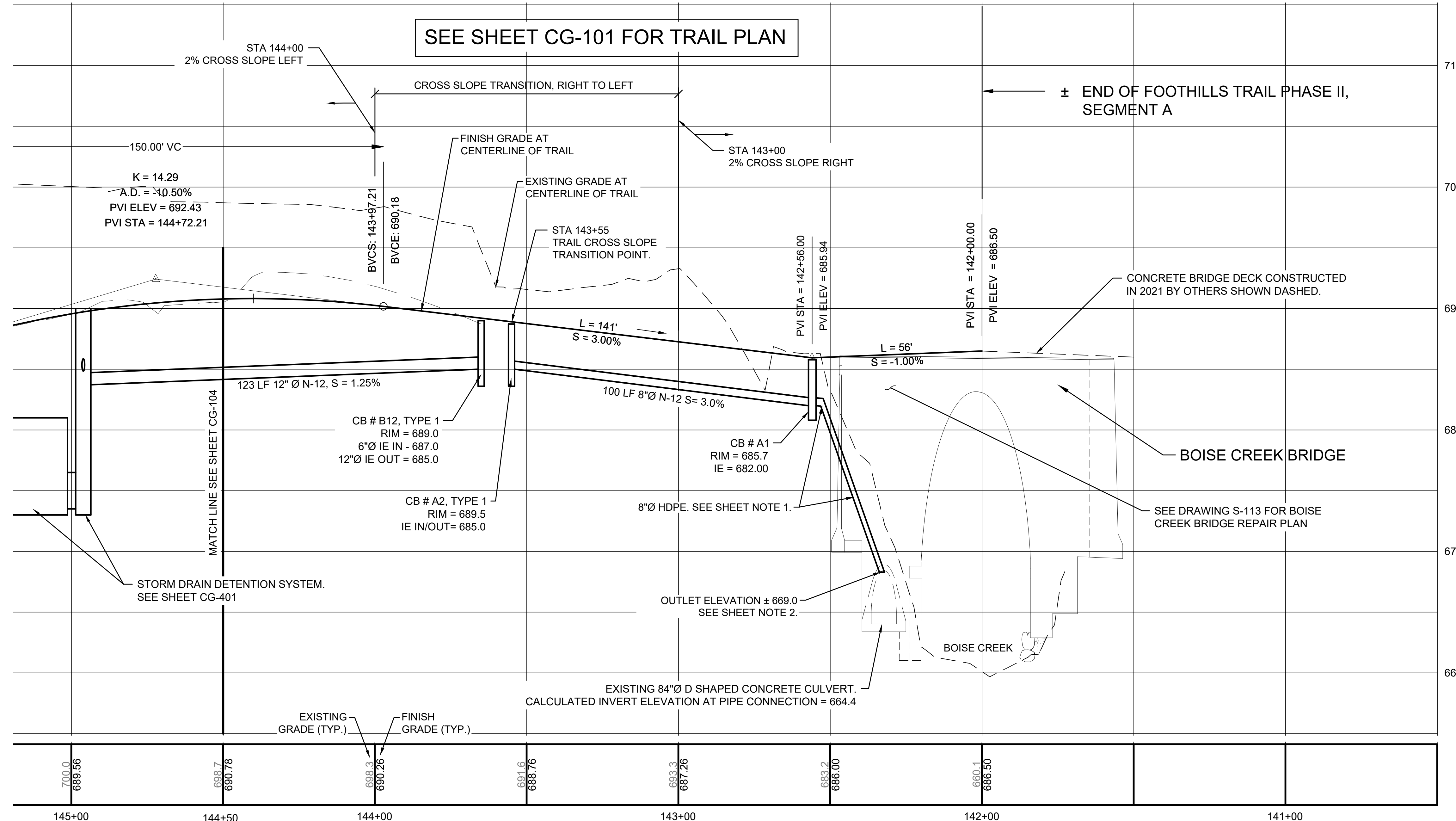
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GRADING PROFILE

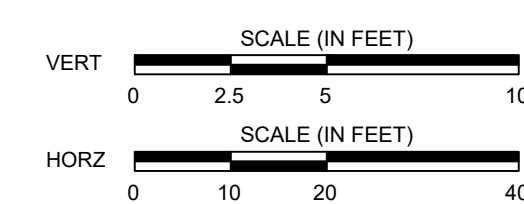
BOISE CREEK BRIDGE TO STA 144+50

CG-102



SHEET NOTES

1. HDPE PIPE LENGTH, TYPE OF VERTICAL BEND AND PIPE SLOPE TO CONNECT TO THE EXISTING CONCRETE D-SHAPE CULVERT WILL BE DETERMINED IN THE FIELD.
2. CONNECT HDPE STORM DRAIN PIPE TO THE TOP OF THE EXISTING CONCRETE D-SHAPE CULVERT. CORE DRILL TOP OF THE EXISTING CONCRETE CULVERT TO MAKE THE PIPE CONNECTION WITH HDPE FLANGE WITH 1-FOOT LONG PIPE NIPPLE EXTEND JUST PAST INTERIOR FACE OF THE CONCRETE D-SHAPE CULVERT. GROUT PIPE CONNECTION TO THE CONCRETE D-SHAPE CULVERT TO BE WATER-TIGHT AND BOLT FLANGE TO THE EXTERIOR OF THE CONCRETE CULVERT USING 2 - 3/8" Ø WEDGE ANCHOR BOLTS DRILLED AND ANCHORED TO THE CULVERT.



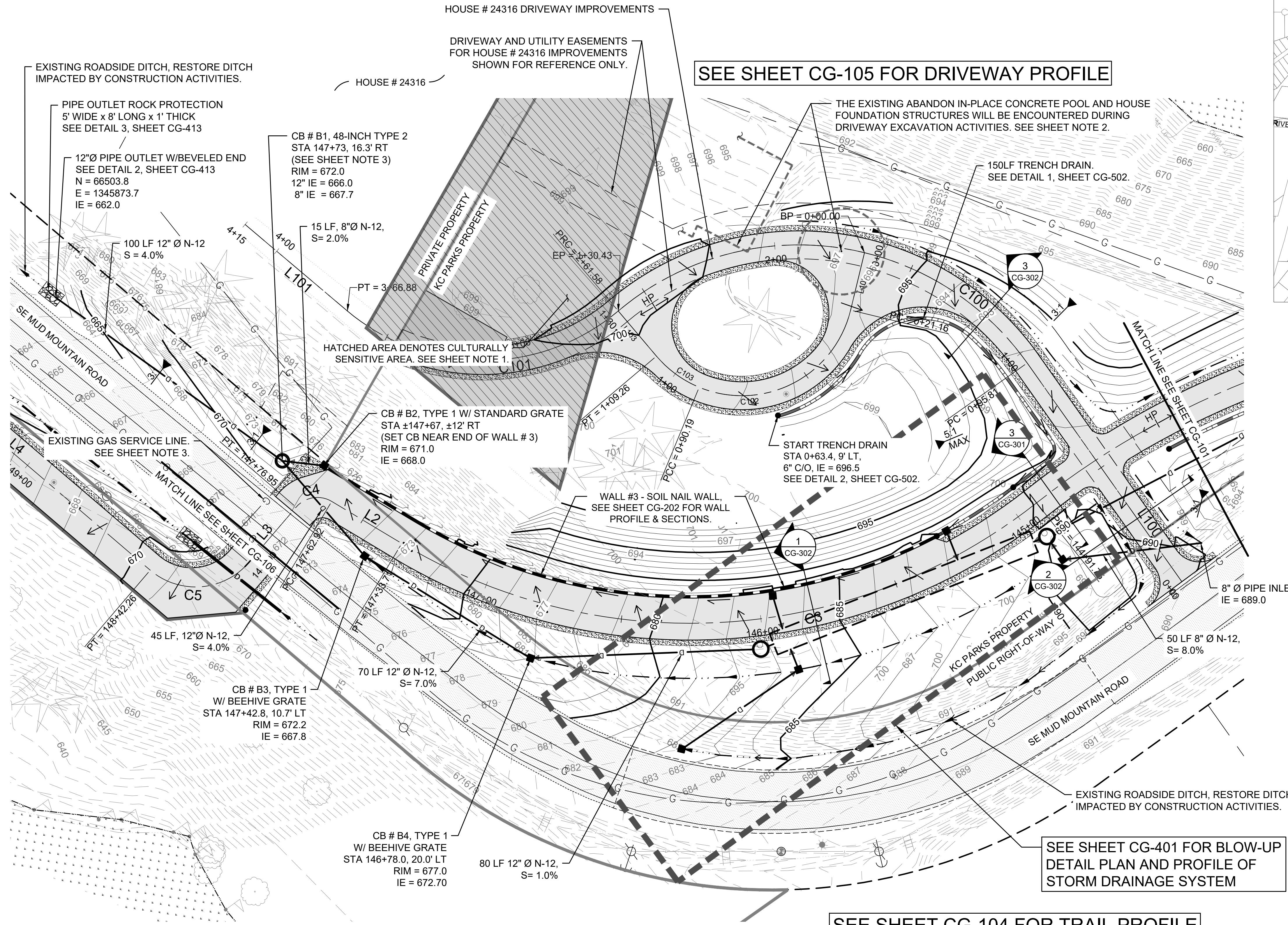
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KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



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SEE SHEET CG-105 FOR DRIVEWAY PROFILE

SEE SHEET CG-104 FOR TRAIL PROFILE



KEY MAP

LEGEND (PROPOSED)

- PAVED ASPHALT SURFACE
- GRAVEL SURFACE
- RETAINING WALL, CUT SECTION
SEE STRUCTURAL SHEETS
- RETAINING WALL, FILL SECTION
SEE STRUCTURAL SHEETS
- HIGH POINT
- LOW POINT
- FLOW ARROW
- CROSS SLOPE TRANSITION
- SWALE/DITCH FLOW LINE
- ELEV PROPOSED CONTOUR MAJOR
- ELEV PROPOSED CONTOUR MINOR
- PROPOSED TRENCH DRAIN
- PROPOSED STORM PIPE

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 CONTRACT NO. E00115E08 - AM. 20
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 SHEET TITLE
GRADING PLAN

STA 144+50
 TO
 STA 148+00

CG-103

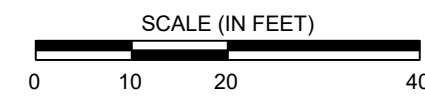
SHEET NOTES

1. UNAUTHORIZED EXCAVATION SHALL NOT BE PERMITTED WITHIN THE CULTURALLY SENSITIVE AREA.
2. THE CONTRACTOR SHALL REMOVE ANY PORTION OF THE EXISTING ABANDON IN-PLACE CONCRETE POOL AND HOUSE FOUNDATION STRUCTURES THAT IS LOCATED WITHIN 2-FEET VERTICALLY AND 2-FEET HORIZONTALLY OF THE DRIVEWAY FINISH GRADE IMPROVEMENTS.
3. RECORDS INDICATE THE EXISTING NATURAL GAS SERVICE FOR HOUSE # 24316 IS AT THIS LOCATION. CONTRACTOR SHALL POT HOLE AND LOCATE THE SERVICE LINE TO DETERMINE IF THE NATURAL GAS SERVICE LINE WILL BE ENCOUNTERED DURING CONSTRUCTION AND MAKE ANY DRAINAGE FIELD ADJUSTMENTS NEEDED FOR THE NATURAL GAS SERVICE LINE TO REMAIN. THE CONTRACTOR SHALL COORDINATE ANY NECESSARY ADJUSTMENT TO THE GAS SERVICE LINE WITH THE CITY OF ENUMCLAW.

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 KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
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FOOTHILLS TRAIL

PHASE II SEGMENT B

KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS

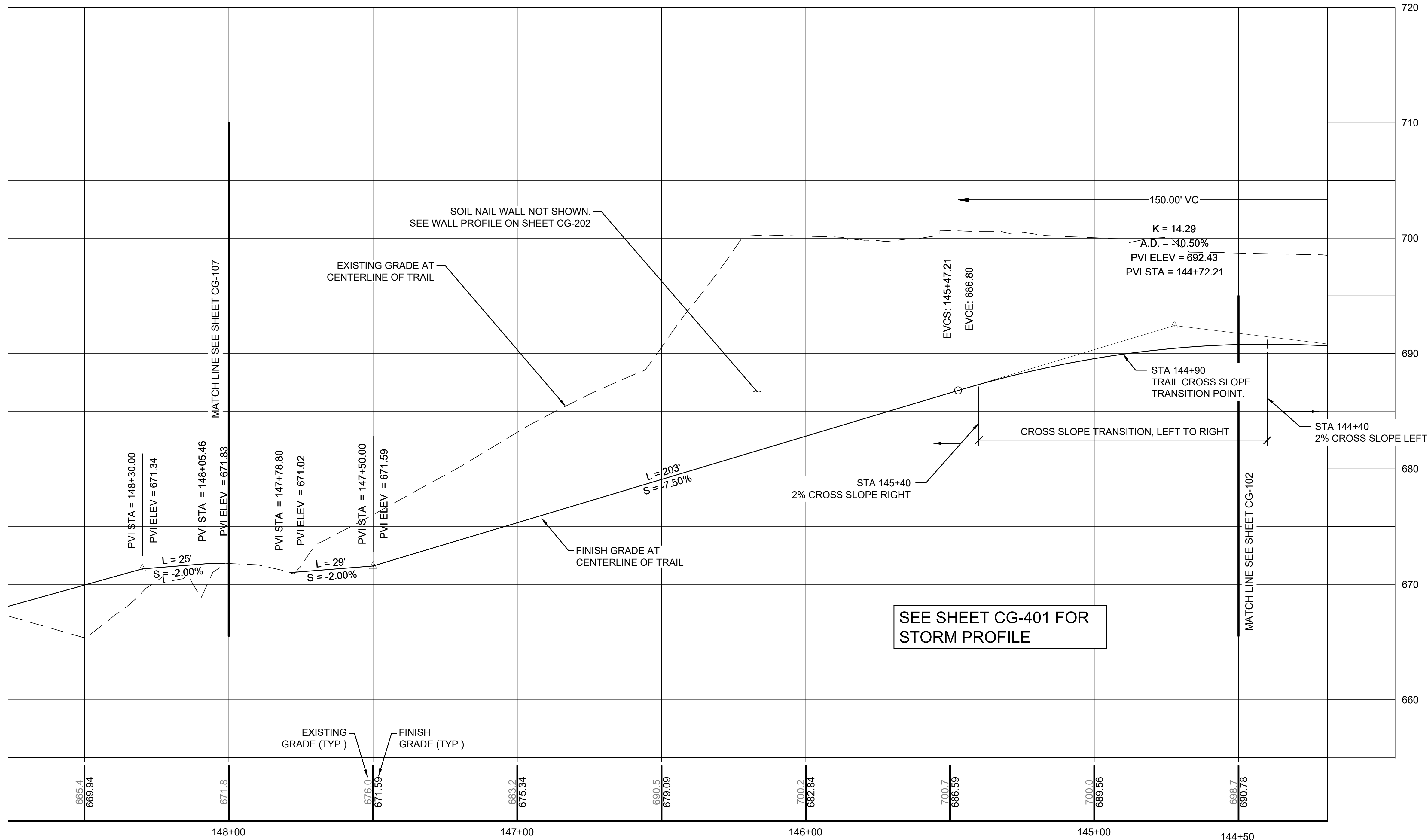
CONTRACT # C---

ISSUE / REVISIONS		
ID	DATE	DESCRIPTION
△	2/13/2020	30% SUBMITTAL
△	12/30/2020	65% SUBMITTAL
△	5/24/2021	90% SUBMITTAL

PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY VUL CHECKED BY GRS
 SHEET TITLE
GRADING PROFILE

STA 144+50
 TO
 STA 148+00

CG-104



SEE SHEET CG-401 FOR STORM PROFILE

SEE SHEET CG-103 FOR TRAIL PLAN

SOIL NAIL WALL NOT SHOWN. SEE WALL PROFILE ON SHEET CG-202

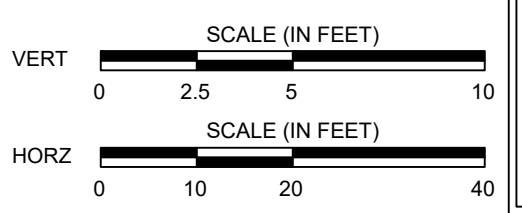
EXISTING GRADE AT CENTERLINE OF TRAIL

FINISH GRADE AT CENTERLINE OF TRAIL

EXISTING GRADE (TYP.)
FINISH GRADE (TYP.)

MATCH LINE SEE SHEET CG-107

MATCH LINE SEE SHEET CG-102



GRDE XX-XXXX
 KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



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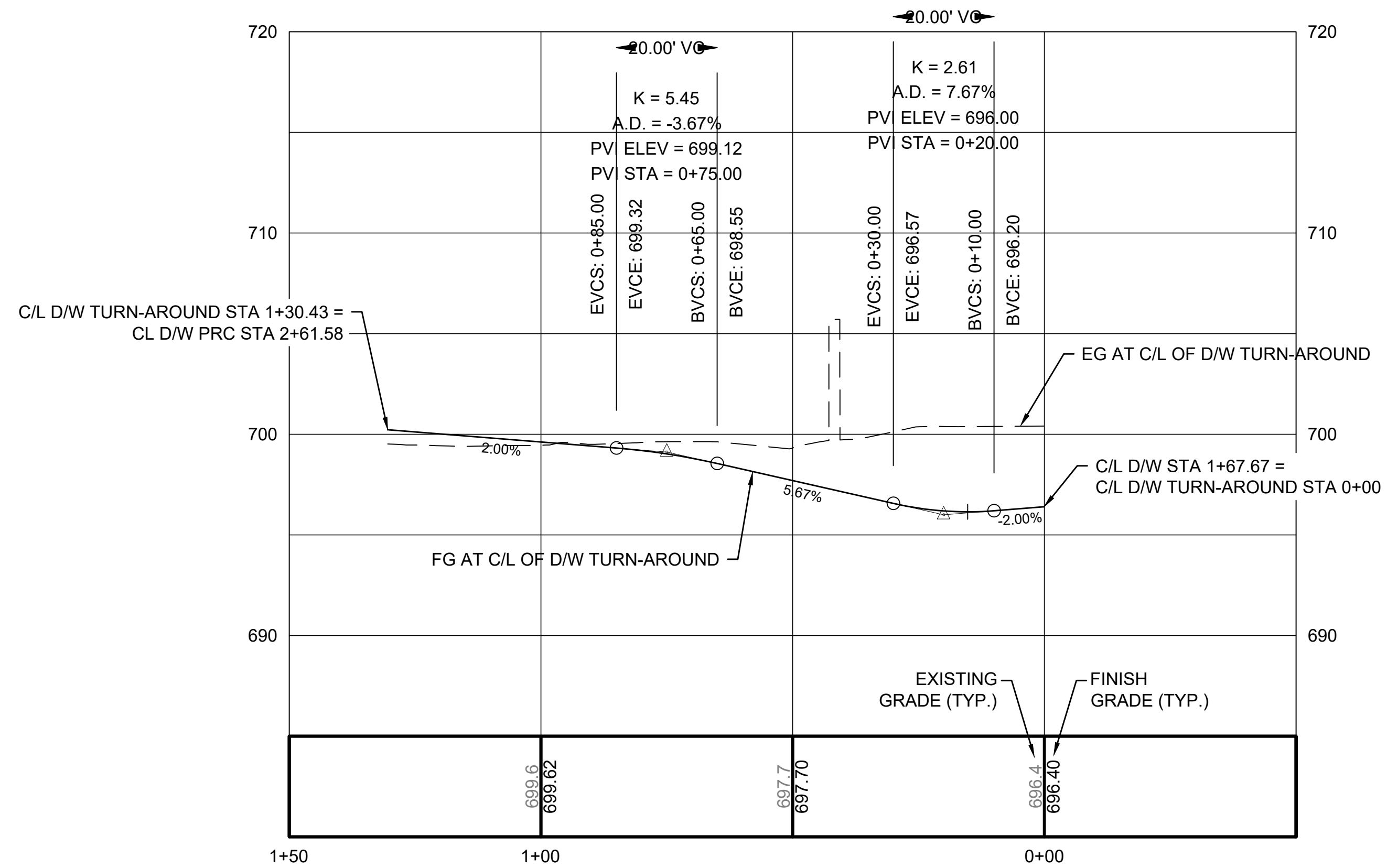
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FOOTHILLS TRAIL
PHASE II SEGMENT B
KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
CONTRACT # C---

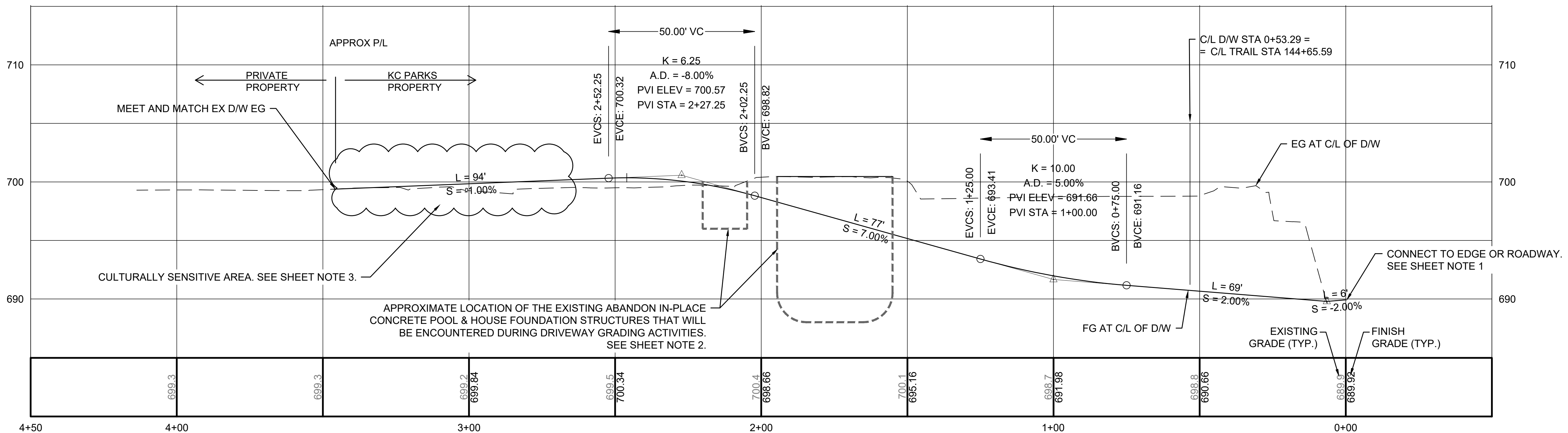
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△	2/13/2020	30% SUBMITTAL
△	12/30/2020	65% SUBMITTAL
△	5/24/2021	90% SUBMITTAL

PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
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 SHEET TITLE
 GRADING PROFILE



DRIVEWAY TURN-AROUND PROFILE

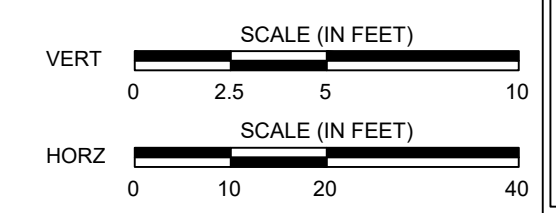
SEE SHEET CG-103 FOR DRIVEWAY PLAN



DRIVEWAY PROFILE

SHEET NOTES

- MATCH FINISH GRADE AT EDGE OF PAVED ROADWAY. SAW CUT CLEAN, STRAIGHT EDGE ± 1' FROM EXISTING EDGE OF ASPHALT AND SEAL JOINT.
- THE CONTRACTOR SHALL REMOVE ANY PORTION OF THE EXISTING ABANDON IN-PLACE CONCRETE POOL AND HOUSE FOUNDATION STRUCTURES THAT IS LOCATED WITHIN 2-FEET VERTICALLY AND 2-FEET HORIZONTALLY OF THE DRIVEWAY FINISH GRADE IMPROVEMENTS.
- IDENTIFIED CULTURALLY SENSITIVE AREA SHALL BE FLAGGED BY SURVEY. UNAUTHORIZED EXCAVATION SHALL NOT BE PERMITTED WITHIN THE CULTURALLY SENSITIVE AREA



GRDE XX-XXXX

KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

DRIVEWAY
CG-105
 18 OF 52

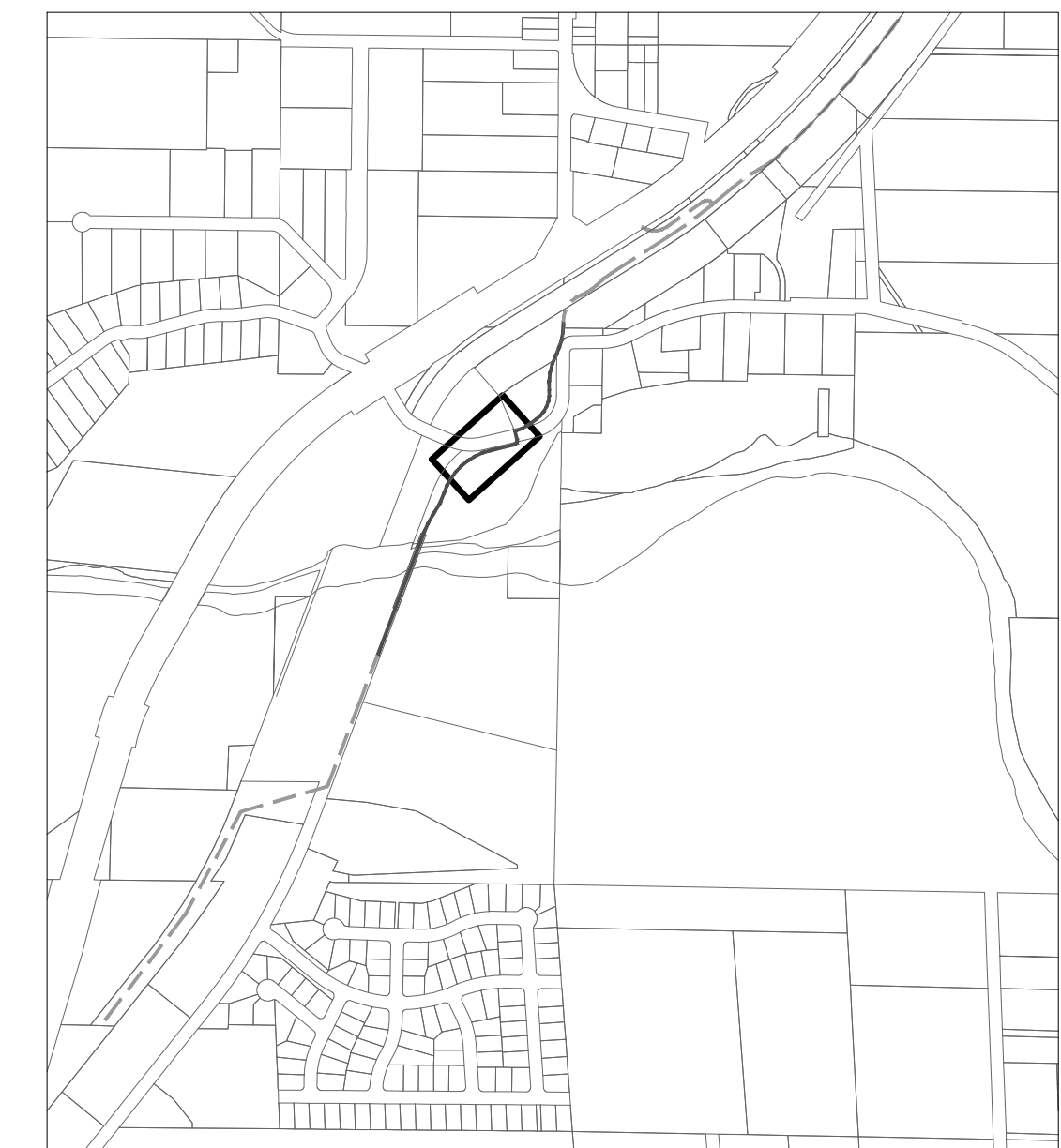
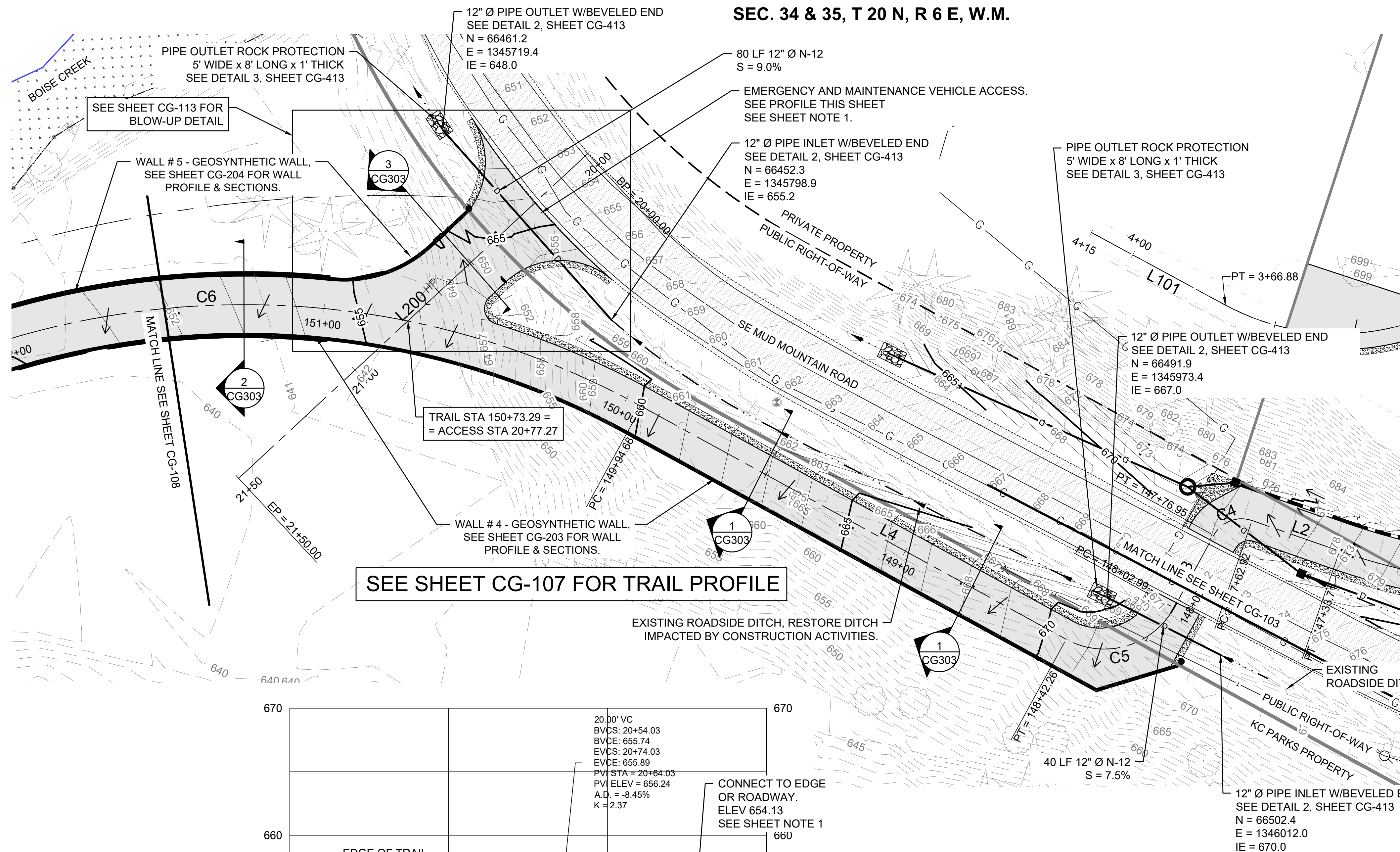


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SEC. 34 & 35, T 20 N, R 6 E, W.M.

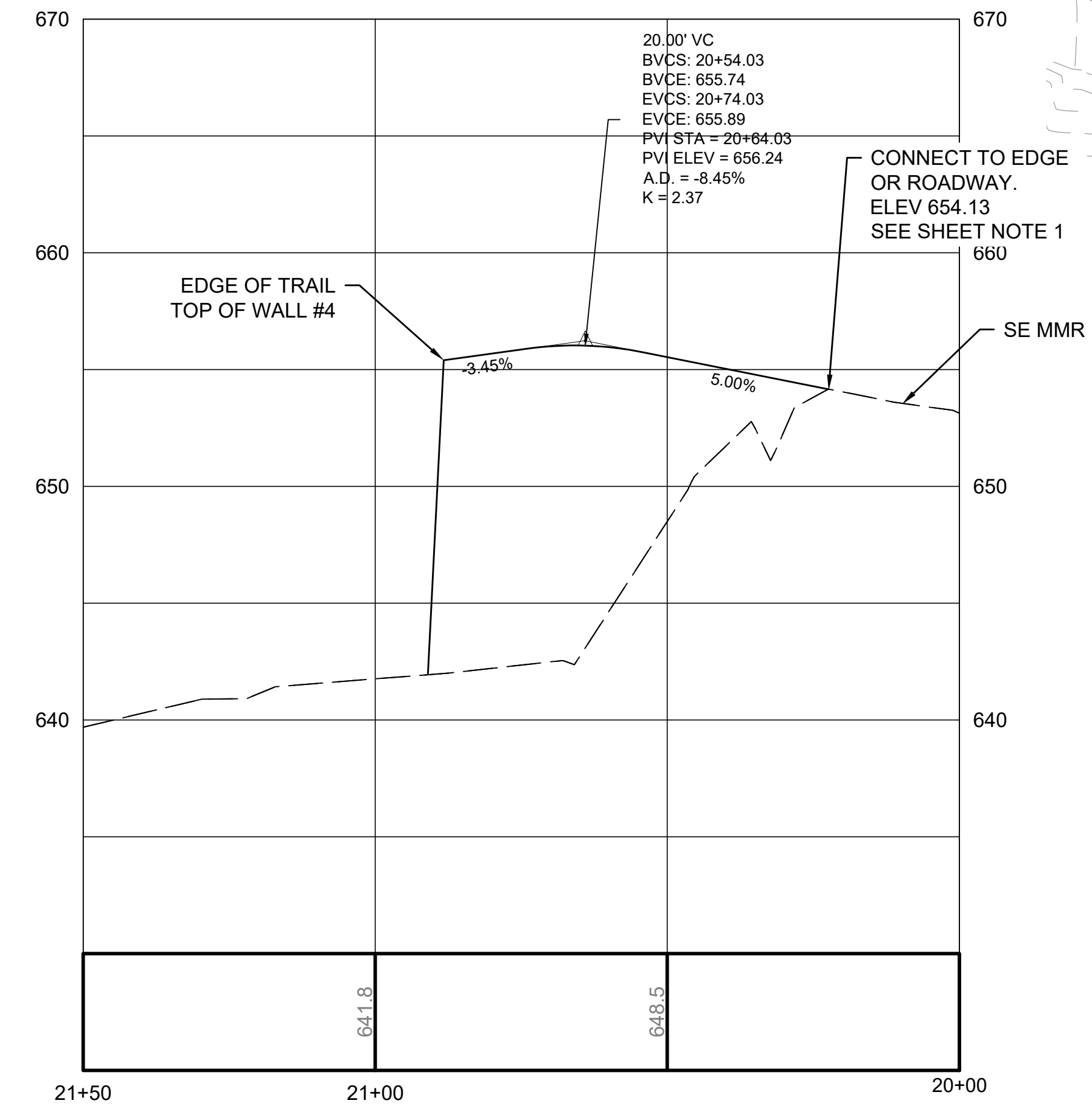


KEY MAP

LEGEND (PROPOSED)

- PAVED ASPHALT SURFACE
- GRAVEL SURFACE
- RETAINING WALL, CUT SECTION SEE STRUCTURAL SHEETS
- RETAINING WALL, FILL SECTION SEE STRUCTURAL SHEETS
- HP HIGH POINT
- LP LOW POINT
- FLOW ARROW
- CROSS SLOPE TRANSITION
- SWALE/DITCH FLOW LINE
- ELEV PROPOSED CONTOUR MAJOR
- ELEV PROPOSED CONTOUR MINOR
- PROPOSED TRENCH DRAIN
- PROPOSED STORM PIPE

SEE SHEET CG-107 FOR TRAIL PROFILE



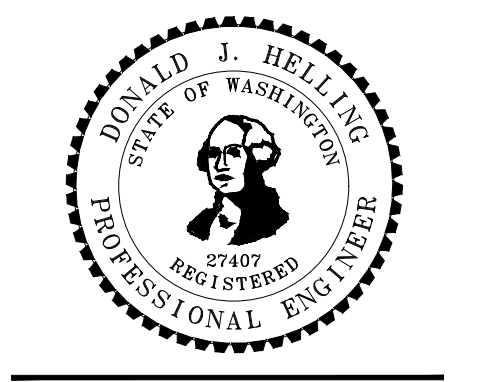
MAINTENANCE ACCESS PROFILE

SHEET NOTES

- MATCH FINISH GRADE AT EDGE OF PAVED ROADWAY. SAW CUT CLEAN, STRAIGHT EDGE ± 1' FROM EXISTING EDGE OF ASPHALT AND SEAL JOINT.

King County
 Department of Natural Resources and Parks
Parks and Recreation Division
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FOOTHILLS TRAIL
 PHASE II SEGMENT B
 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
 CONTRACT # C---

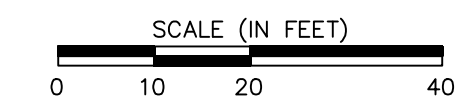
ISSUE / REVISIONS	ID	DATE	DESCRIPTION
	△	2/13/2020	30% SUBMITTAL
	△	12/30/2020	65% SUBMITTAL
	△	5/24/2021	90% SUBMITTAL

PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY VUL CHECKED BY GRS

SHEET TITLE
GRADING PLAN
 STA 148+00
 TO
 STA 151+50 AND
 ACCESS ROAD

CG-106
 19 OF 52

GRDE XX-XXXX	
KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

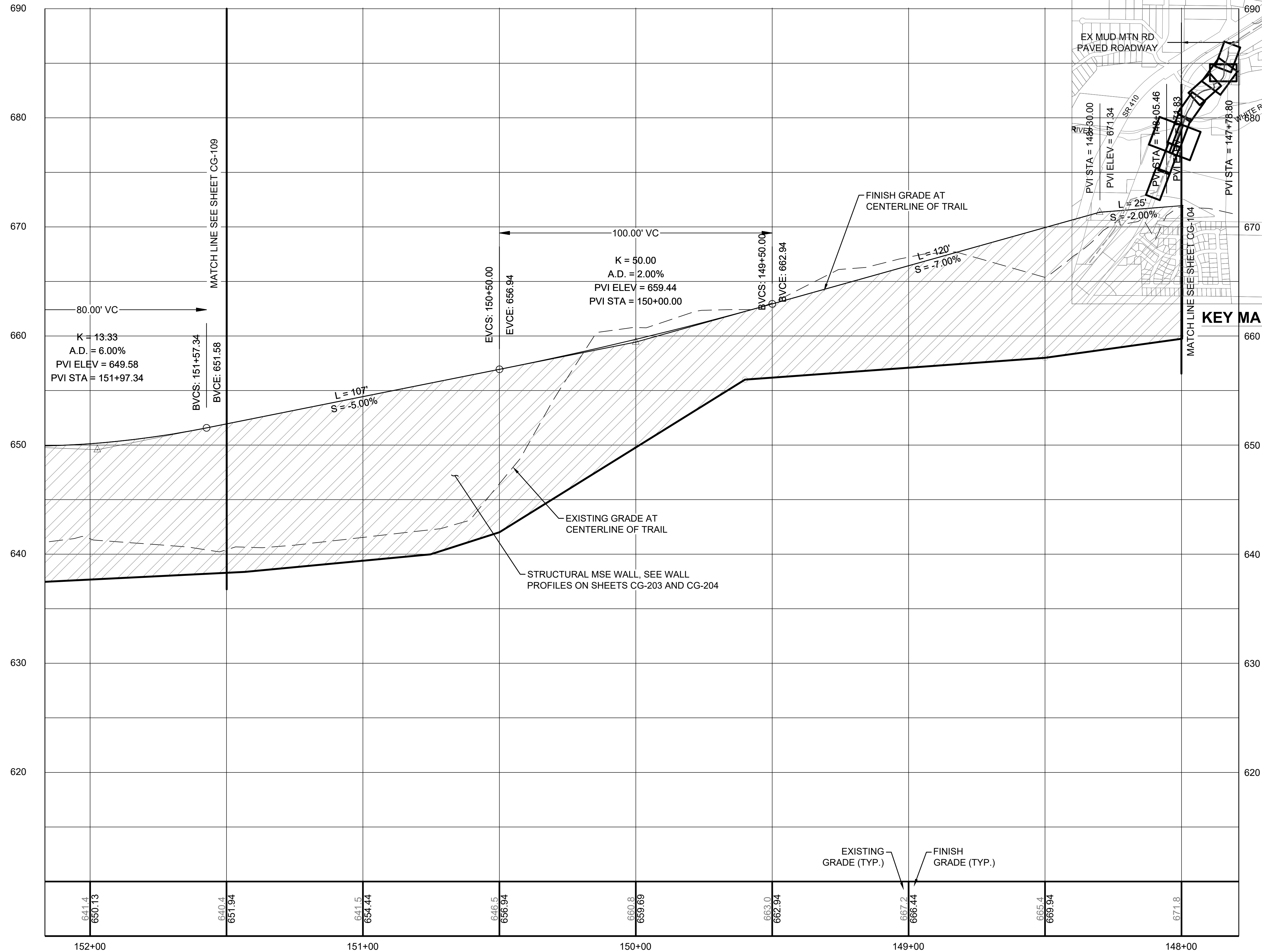


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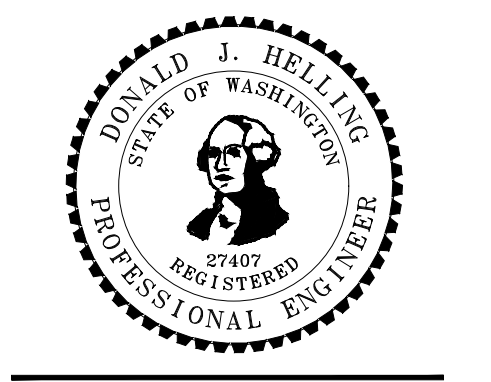
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FOOTHILLS TRAIL
 PHASE II SEGMENT B
 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
 CONTRACT # C---

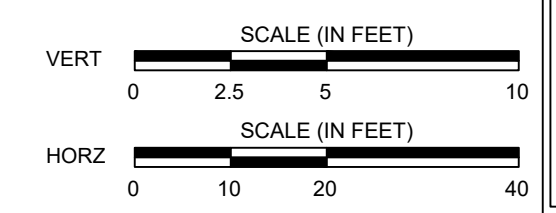
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	△	5/24/2021	90% SUBMITTAL

PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY LAJ CHECKED BY GS
 SHEET TITLE
GRADING PROFILE

STA 148+00
 TO
 STA 151+50

CG-107

SEE SHEET CG-106 FOR TRAIL PLAN



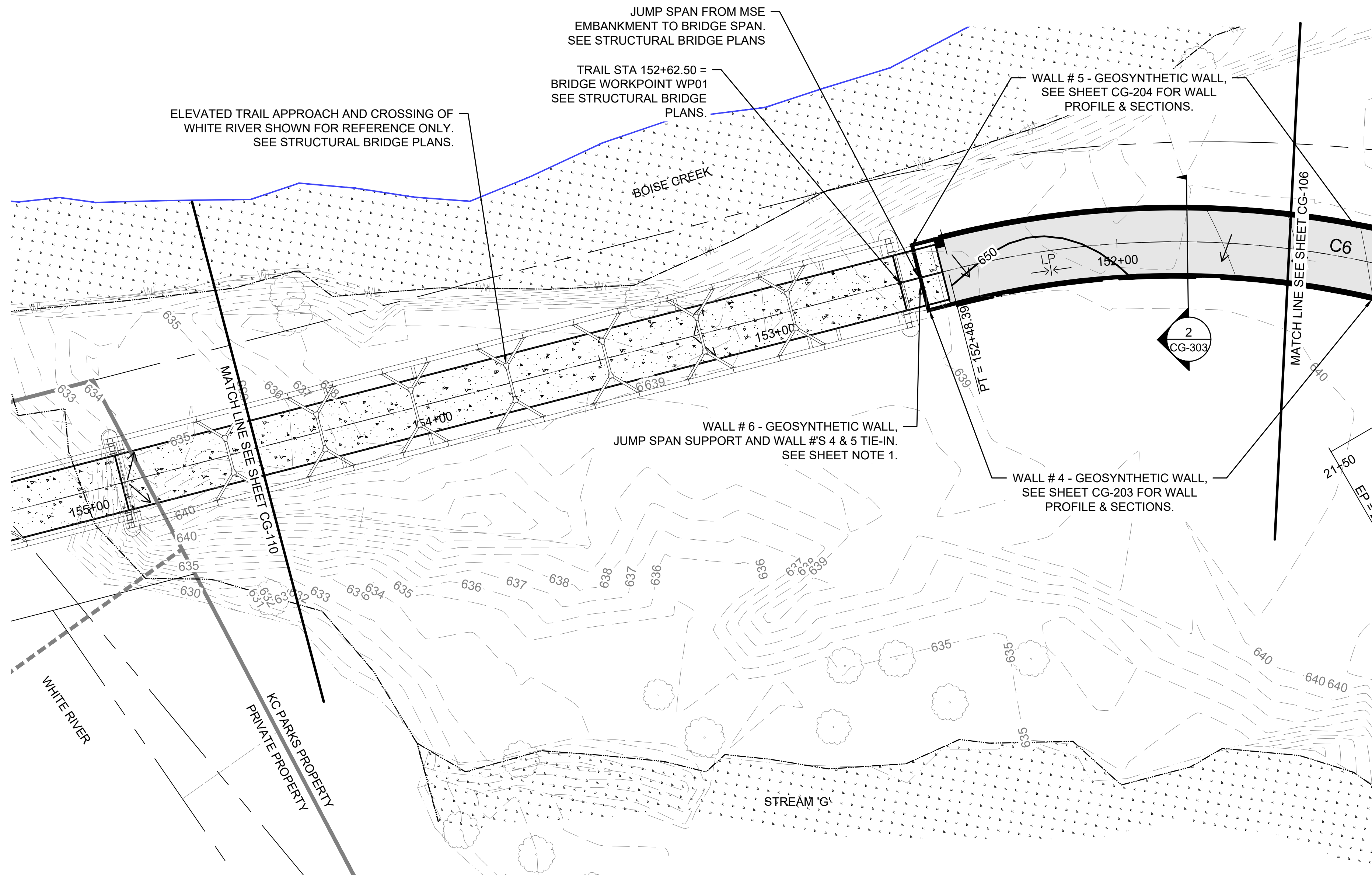
GRDE XX-XXXX

KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



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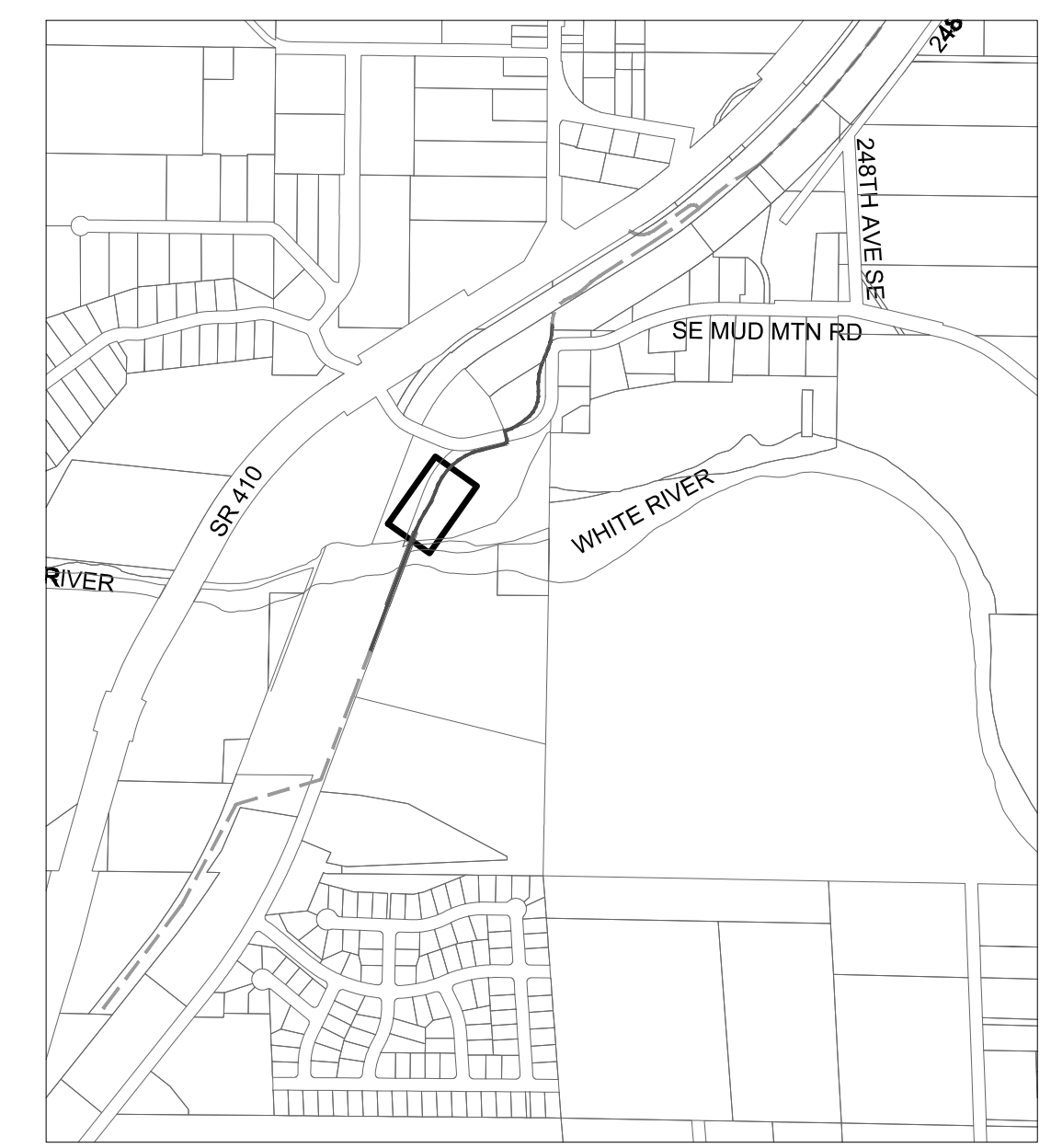
SEC. 34 & 35, T 20 N, R 6 E, W.M.



SEE SHEET CG-109 FOR PROFILE

SHEET NOTES

1. END / BEGINNING OF GEOSYNTHETIC WALL #S 4, 5 AND 6 TO BE COORDINATED WITH THE STRUCTURAL JUMP SPAN REQUIREMENTS. SEE STRUCTURAL PLANS.



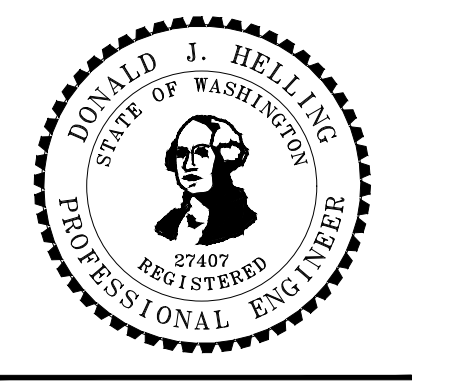
KEY MAP

LEGEND (PROPOSED)

- PAVED ASPHALT SURFACE
- GRAVEL SURFACE
- RETAINING WALL, CUT SECTION
SEE STRUCTURAL SHEETS
- RETAINING WALL, FILL SECTION
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- PROPOSED STORM PIPE

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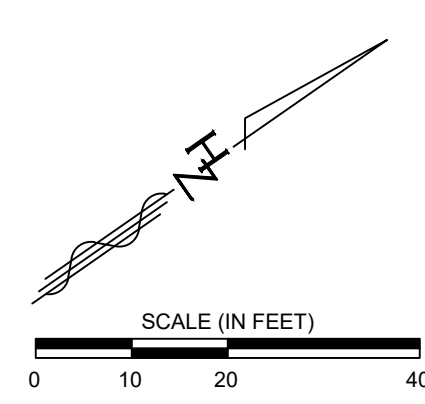
FOOTHILLS TRAIL
 PHASE II SEGMENT B
 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
 CONTRACT # C---

ISSUE / REVISIONS		
ID	DATE	DESCRIPTION
△	2/13/2020	30% SUBMITTAL
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△	5/24/2021	90% SUBMITTAL

PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY VUL CHECKED BY GS
 SHEET TITLE

GRADING PLAN
 STA 151+50
 TO
 WHITE RIVER BRDG
 NORTH ABUTMENT

CG-108



GRDE XX-XXXX	
KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



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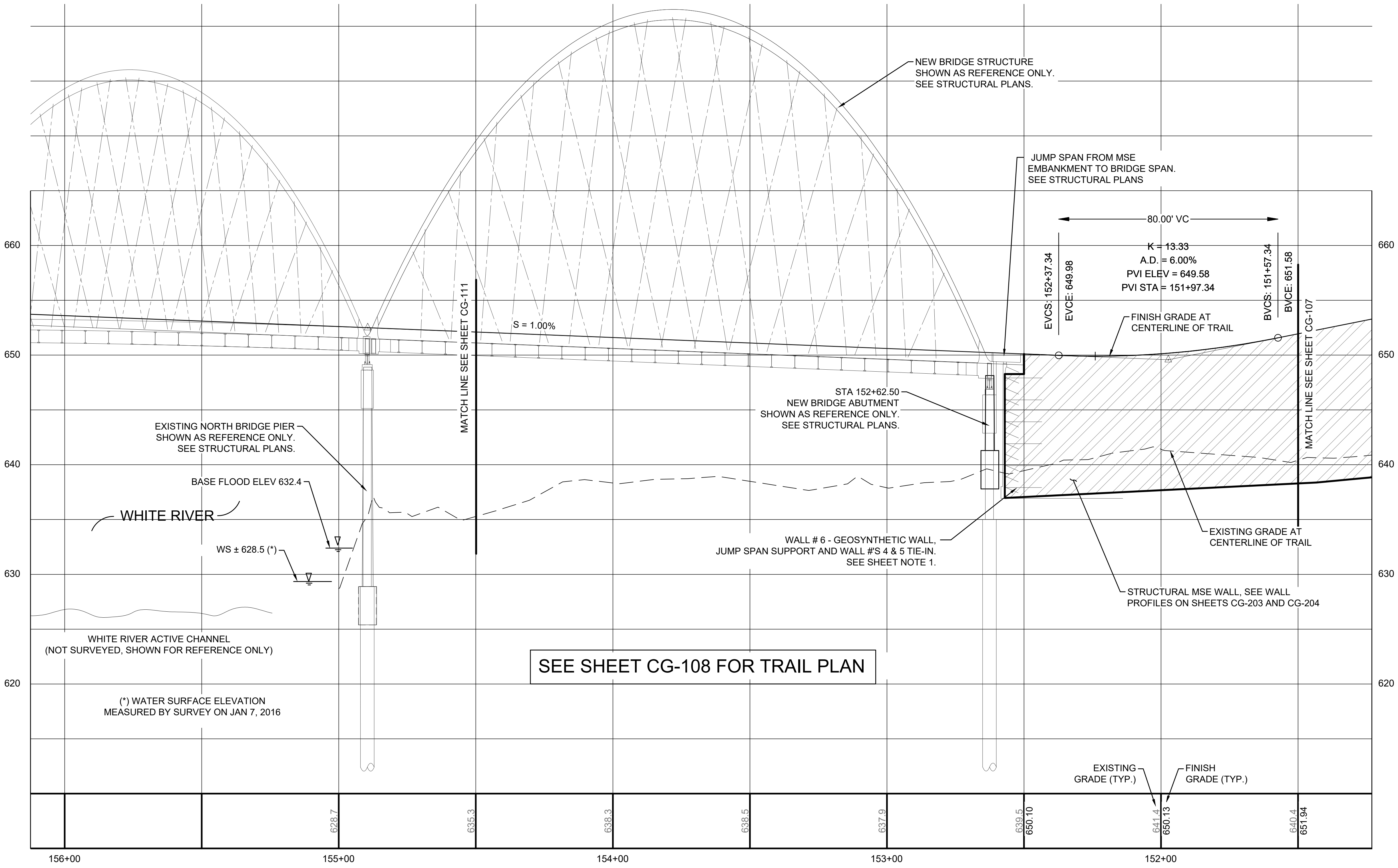
FOOTHILLS TRAIL
PHASE II SEGMENT B
KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
CONTRACT # C---

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PROJECT NO. 15095305
SITE NO.
FILE
CONTRACT NO. E00115E08 - AM. 20
DRAWN BY LAJ CHECKED BY GS
SHEET TITLE

GRDE XX-XXXX
TO
WHITE RIVER BRDG
NORTH ABUTMENT

CG-109
22 OF 52



SEE SHEET CG-108 FOR TRAIL PLAN

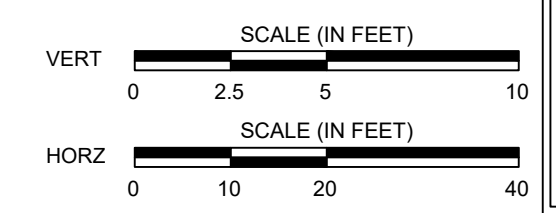
SHEET NOTES

1. END / BEGINNING OF GEOSYNTHETIC WALL #S 4, 5 AND 6 TO BE COORDINATED WITH THE STRUCTURAL JUMP SPAN REQUIREMENTS. SEE STRUCTURAL PLANS.



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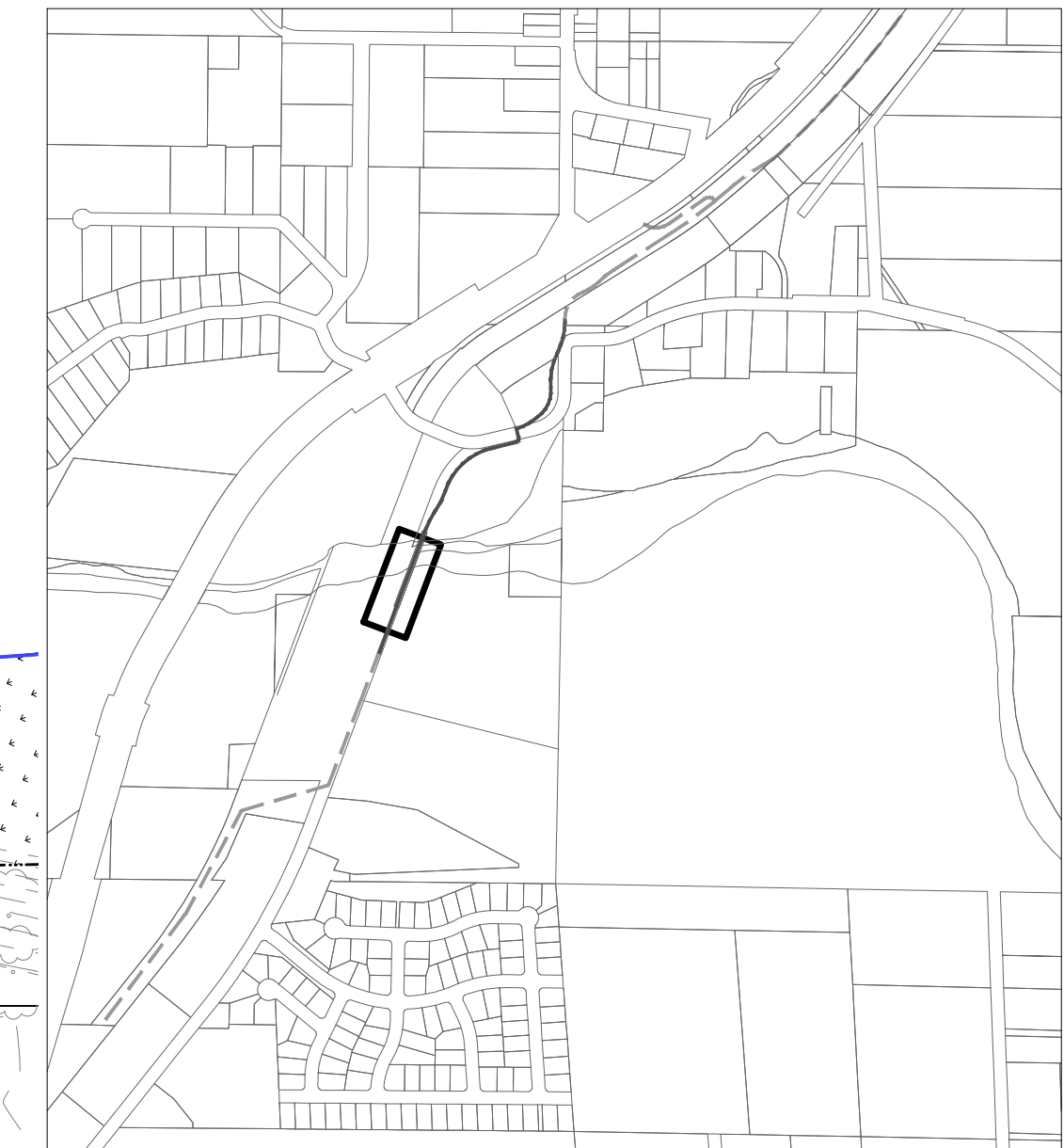
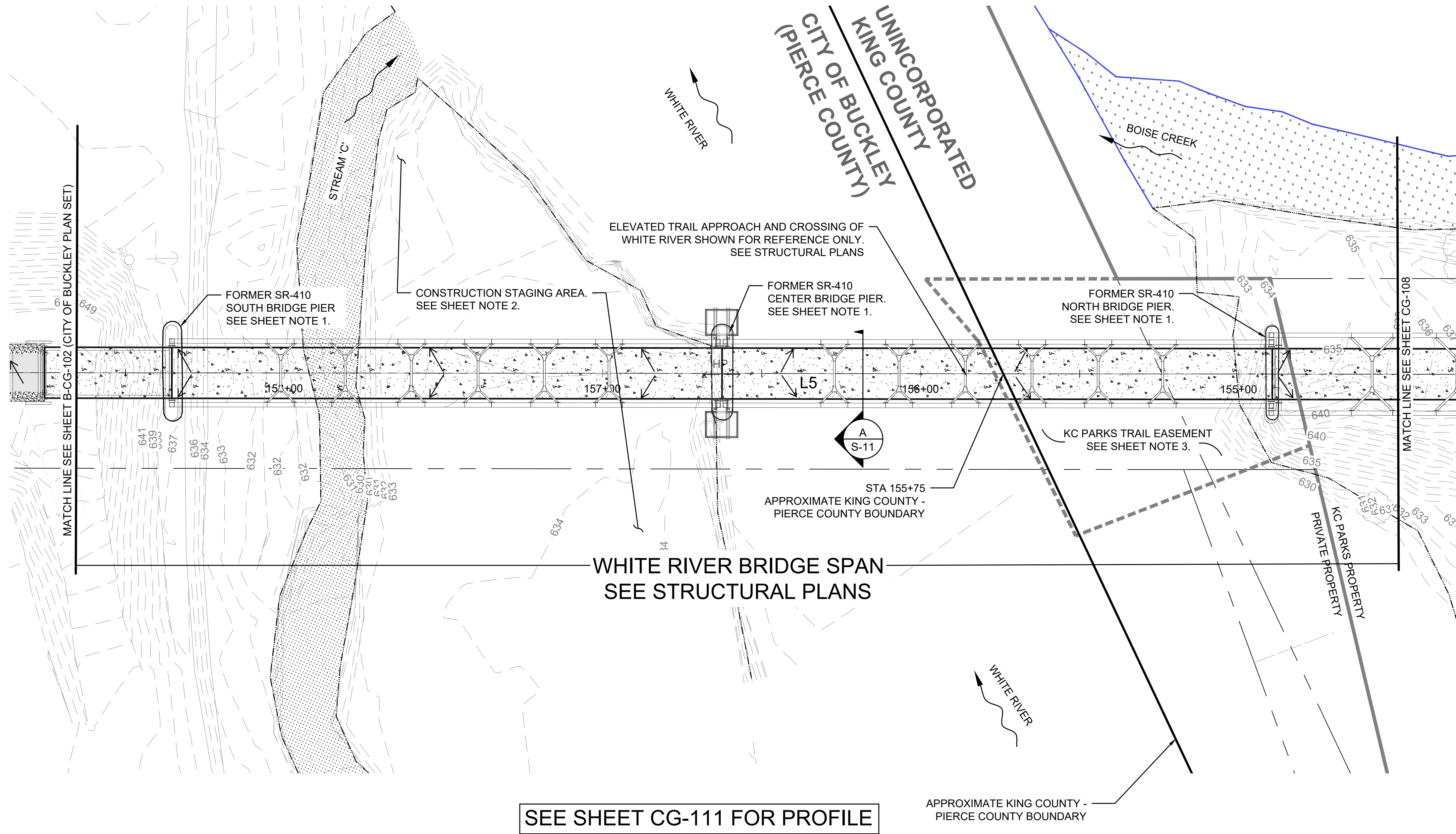
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Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

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SEC. 34 & 35, T 20 N, R 6 E, W.M.



KEY MAP

LEGEND (PROPOSED)

- PAVED ASPHALT SURFACE
- GRAVEL SURFACE
- RETAINING WALL, CUT SECTION
SEE STRUCTURAL SHEETS
- RETAINING WALL, FILL SECTION
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- ELEV PROPOSED CONTOUR MINOR
- PROPOSED TRENCH DRAIN
- PROPOSED STORM PIPE

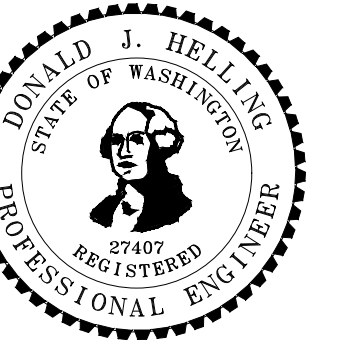
SHEET NOTES

1. STRUCTURAL PLANS AND CALCULATIONS OF BRIDGE & PIERS WILL BE REVIEWED AND APPROVED BY KING COUNTY D.O.T. BRIDGE AND STRUCTURAL GROUP UNDER THE KING COUNTY DEPARTMENT OF LOCAL SERVICES CLEARING AND GRADING PERMIT.
2. CLEARING AND GRADING ACTIVITIES AND CRITICAL AREA MITIGATION WITHIN THE CITY OF BUCKLEY WILL BE REVIEWED AND APPROVED BY THE CITY OF BUCKLEY.
3. KING COUNTY PARKS TRAIL IMPROVEMENTS CROSSING PARCEL # 3420069026 WITHIN TRAIL ACCESS EASEMENT RECORDING NUMBER 20160720001288.

SEE SHEET CG-111 FOR PROFILE

King County
 Department of Natural Resources
 and Parks
Parks and Recreation Division
 King Street Center, KSC-NR-0700
 201 So. Jackson Street, Suite 700
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FOOTHILLS TRAIL
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 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
 CONTRACT # C---

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△	5/24/2021	90% SUBMITTAL

PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY VUL CHECKED BY GS
 SHEET TITLE

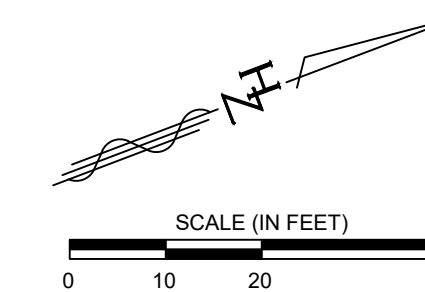
DRAINAGE PLAN
 WHT RVR BR DECK
 STA 154+75
 TO
 STA 158+75

CG-110



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GRDE XX-XXXX
 KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



King County

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Parks and Recreation Division
King Street Center, KSC-NR-0700
201 So. Jackson Street, Suite 700
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Multi-Disciplinary Engineering
818 Stewart St. Suite 1120 Seattle
Seattle, Washington, 98101-1479
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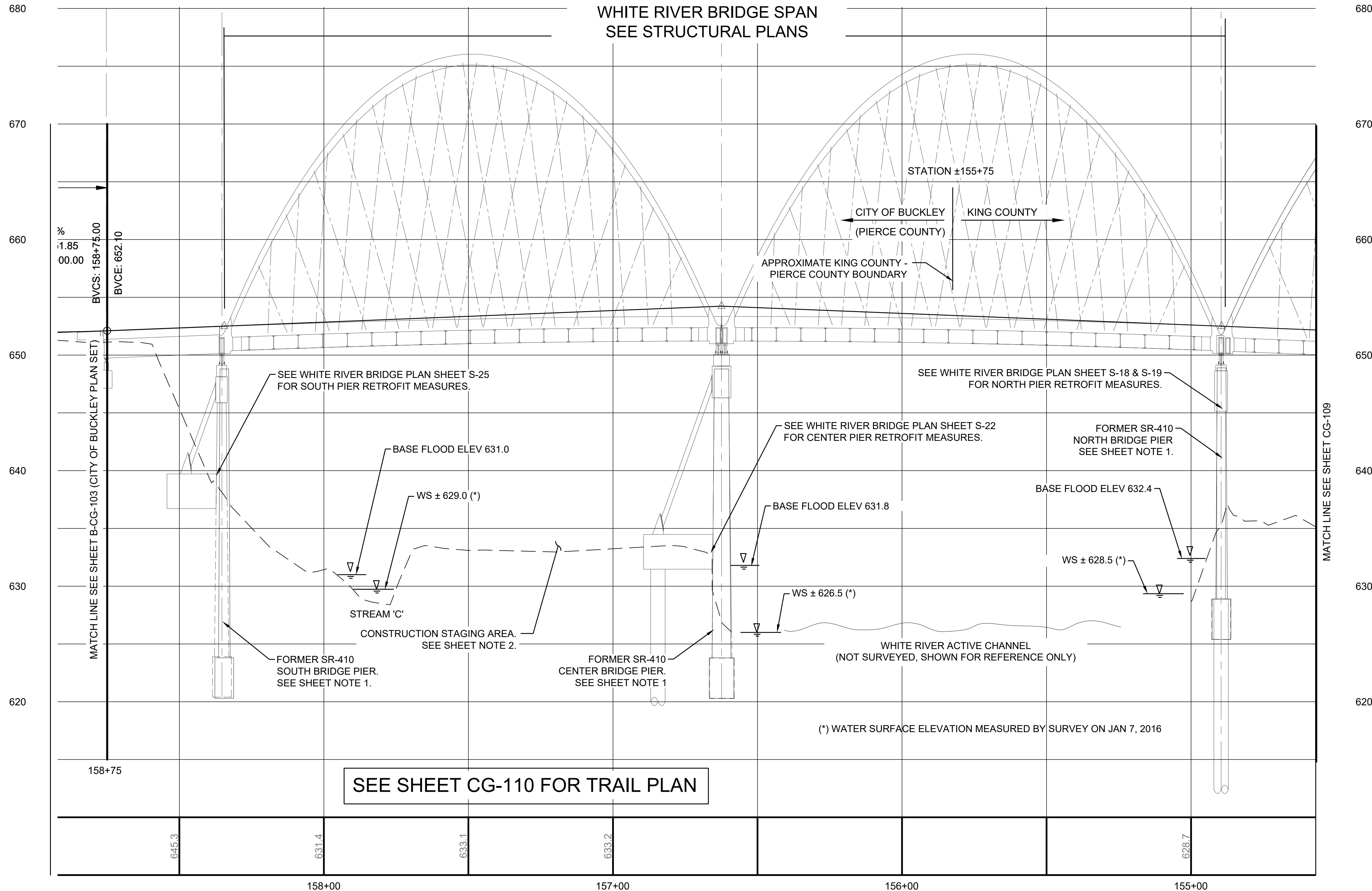
FOOTHILLS TRAIL
PHASE II SEGMENT B
KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
CONTRACT # C---

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PROJECT NO. 15095305
SITE NO.
FILE
CONTRACT NO. E00115E08 - AM. 20
DRAWN BY VUL CHECKED BY GS
SHEET TITLE

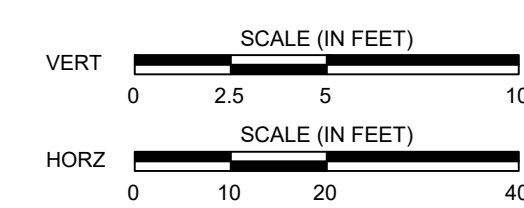
WHITE RIVER
BRIDGE PROFILE
STA 154+75
TO
STA 158+75

CG-111
24 OF 52



SHEET NOTES

- STRUCTURAL PLANS AND CALCULATIONS OF BRIDGE & PIERS WILL BE REVIEWED AND APPROVED BY KING COUNTY D.O.T. BRIDGE AND STRUCTURAL GROUP UNDER THE KING COUNTY DEPARTMENT OF LOCAL SERVICES CLEARING AND GRADING PERMIT.
- CLEARING AND GRADING ACTIVITIES AND CRITICAL AREA MITIGATION WITHIN THE CITY OF BUCKLEY WILL BE REVIEWED AND APPROVED BY THE CITY OF BUCKLEY.



GRDE XX-XXXX
KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



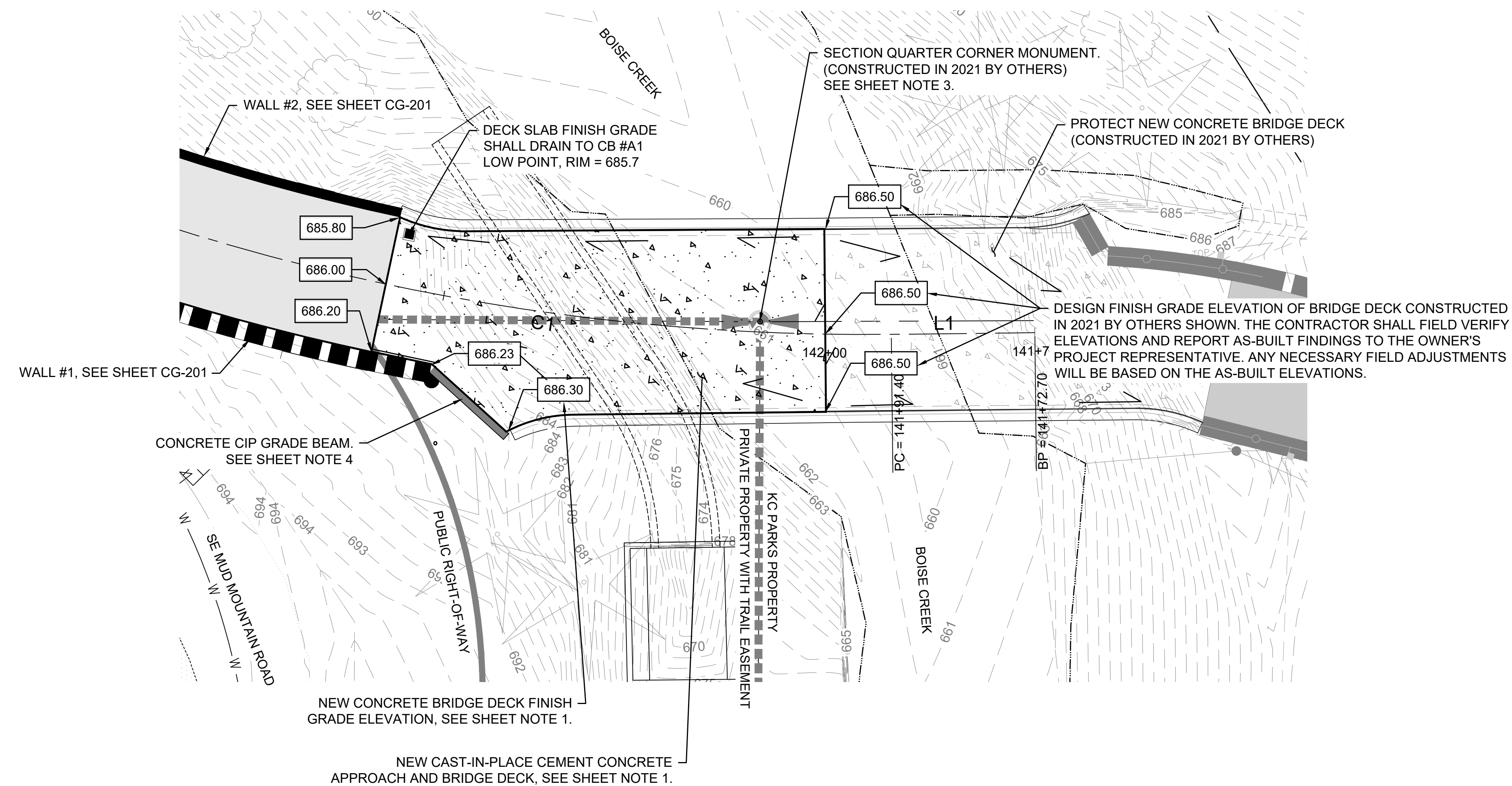
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 Seattle, Washington
 818 Stewart St, Suite 1120
 Seattle, Washington, 98101-1479
 Phone (206) 324-5500 Fax (206) 328-1880



SHEET NOTES:

1. ELEVATION IN TEXT FRAME DENOTES NEW CEMENT CONCRETE FINISH GRADE ELEVATION. SEE STRUCTURAL WALL PLANS FOR BOISE CREEK BRIDGE NEW CONCRETE SLAB NOTES, SECTIONS AND DETAILS.
2. VIBRATORY COMPACTION MACHINERY IS NOT ALLOWED WITHIN THE LIMITS OF THE BOISE CREEK ARCH BRIDGE STRUCTURE. A SINGLE WALK BEHIND PLATE COMPACTOR OR JUMPING JACK IS ACCEPTABLE FOR USE.
3. THE SECTION QUARTER CORNER MON IN CASE MONUMENT TO BE SET IN 2021 BY OTHERS. ANY ADJUSTMENTS TO THE CASE DURING NEW CONCRETE DECK CONSTRUCTION SHALL NOT DISTURB THE SURVEY MONUMENT INSIDE THE CASE.
4. CONSTRUCT STRUCTURAL WALL CIP GRADE BEAM TO SUPPORT THE PEDESTRIAN RAIL FROM THE SOUTHEAST CORNER OF THE BOISE CREEK BRIDGE TO THE NORTH END OF WALL #1. THE CIP GRADE BEAM TO BE FORMED AND CAST WITH THE CONCRETE BRIDGE DECK. SEE STRUCTURAL WALL PLANS FOR NOTES, SECTIONS AND DETAILS.

SEE SHEET CG-101 FOR TRAIL GRADING PLAN

SEE SHEET CG-102 FOR TRAIL GRADING PROFILE

SEE SHEET CG-201 FOR WALL PROFILES

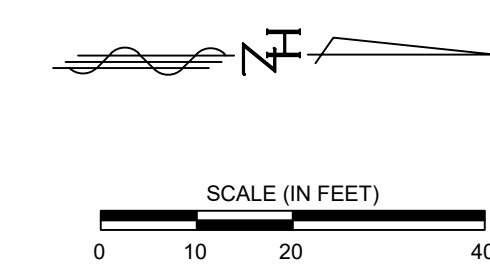
SEE STRUCTURAL WALL DRAWING SHEETS (S-100 SERIES) FOR BOISE CREEK BRIDGE REPAIR AND RETROFIT SCOPE OF WORK.

FOOTHILLS TRAIL
 PHASE II SEGMENT B
 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
 CONTRACT # C---

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PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
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SHEET TITLE
 BOISE CREEK
 BRIDGE
 SURFACING PLAN



GRDE XX-XXXX	
KING COUNTY DLSPD APPROVAL	
Review Engineer _____	Completion Date _____
Senior Engineer _____	Completion Date _____
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date _____

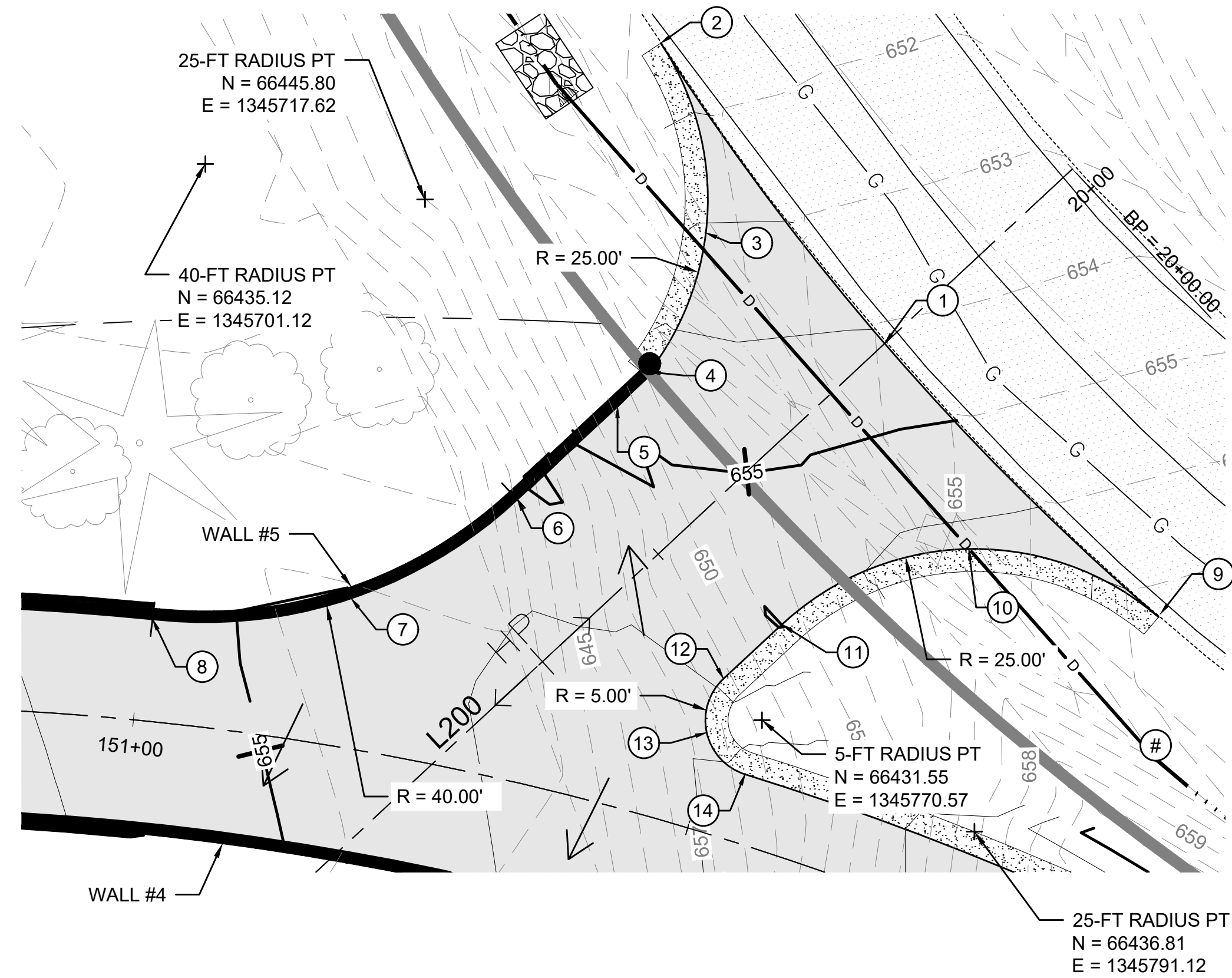
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SEC. 34 & 35, T 20 N, R 6 E, W.M.



MAINTENANCE ACCESS GRADING DETAIL

LEGEND (PROPOSED)

- PAVED ASPHALT SURFACE
- GRAVEL SURFACE
- RETAINING WALL, CUT SECTION
SEE STRUCTURAL SHEETS
- RETAINING WALL, FILL SECTION
SEE STRUCTURAL SHEETS
- HP
HIGH POINT
- LP
LOW POINT
- FLOW ARROW
- CROSS SLOPE TRANSITION
- SWALE/ DITCH FLOW LINE
- ELEV
PROPOSED CONTOUR MAJOR
- ELEV
PROPOSED CONTOUR MINOR
- PROPOSED TRENCH DRAIN
- D
PROPOSED STORM PIPE



King County

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FOOTHILLS TRAIL
PHASE II SEGMENT B
KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
CONTRACT # C---

GRADING POINT TABLE					
	DESCRIPTION	NORTHING	EASTING	ELEV	REMARKS
1	MATCH EP, C/L ACCESS ROAD	66463.54	1345756.34	654.13	
2	MATCH EP, BEGIN OF 25-FT RADIUS CURVE	66470.01	1345723.87	651.32	
3	EP AT 1/2 Δ OF 25-FT RADIUS CURVE	66461.44	1345737.13	652.93	
4	EP/ BEGIN WALL #5	66447.34	1345742.57	654.48	EP ELEV = TOP WALL #5 ELEV
5	EP AT END OF 25-FT RADIUS CURVE	66443.60	1345742.53	654.86	EP ELEV = TOP WALL #5 ELEV
6	EP AT BEGIN OF 40-FT RADIUS CURVE	66431.56	1345741.46	655.50	EP ELEV = TOP WALL #5 ELEV
7	EP AT 1/2 Δ OF 40-FT RADIUS	66423.12	1345739.80	655.50	EP ELEV = TOP WALL #5 ELEV
8	EP AT END OF 40-FT RADIUS CURVE	66402.45	1345725.05	654.66	WALL #5 PRC
9	MATCH EP, BEGIN OF 25-FT RADIUS CURVE	66461.80	1345790.51	657.33	
10	EP AT 1/2 Δ OF 25-FT RADIUS CURVE	66455.04	1345774.01	656.34	
11	EP AT END OF 25-FT RADIUS CURVE	66439.01	1345766.21	655.59	
12	EP AT BEGIN OF 5-FT CURVE	66431.99	1345765.59	655.94	
13	EP AT 1/2 Δ OF 5-FT RADIUS CURVE	66427.27	1345767.99	656.62	
14	EP AT END OF 5-FT RADIUS CURVE	66427.01	1345772.67	657.23	

ISSUE / REVISIONS		
ID	DATE	DESCRIPTION
△	2/13/2020	30% SUBMITTAL
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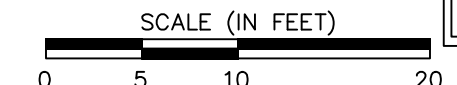
PROJECT NO. 15095305
SITE NO.
FILE
CONTRACT NO. E00115E08 - AM. 20
DRAWN BY VUL CHECKED BY GRS

SHEET TITLE
**MAINTENANCE
ACCESS GRADING
BLOW-UP DETAIL**

CG-113

GRDE XX-XXXX
KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



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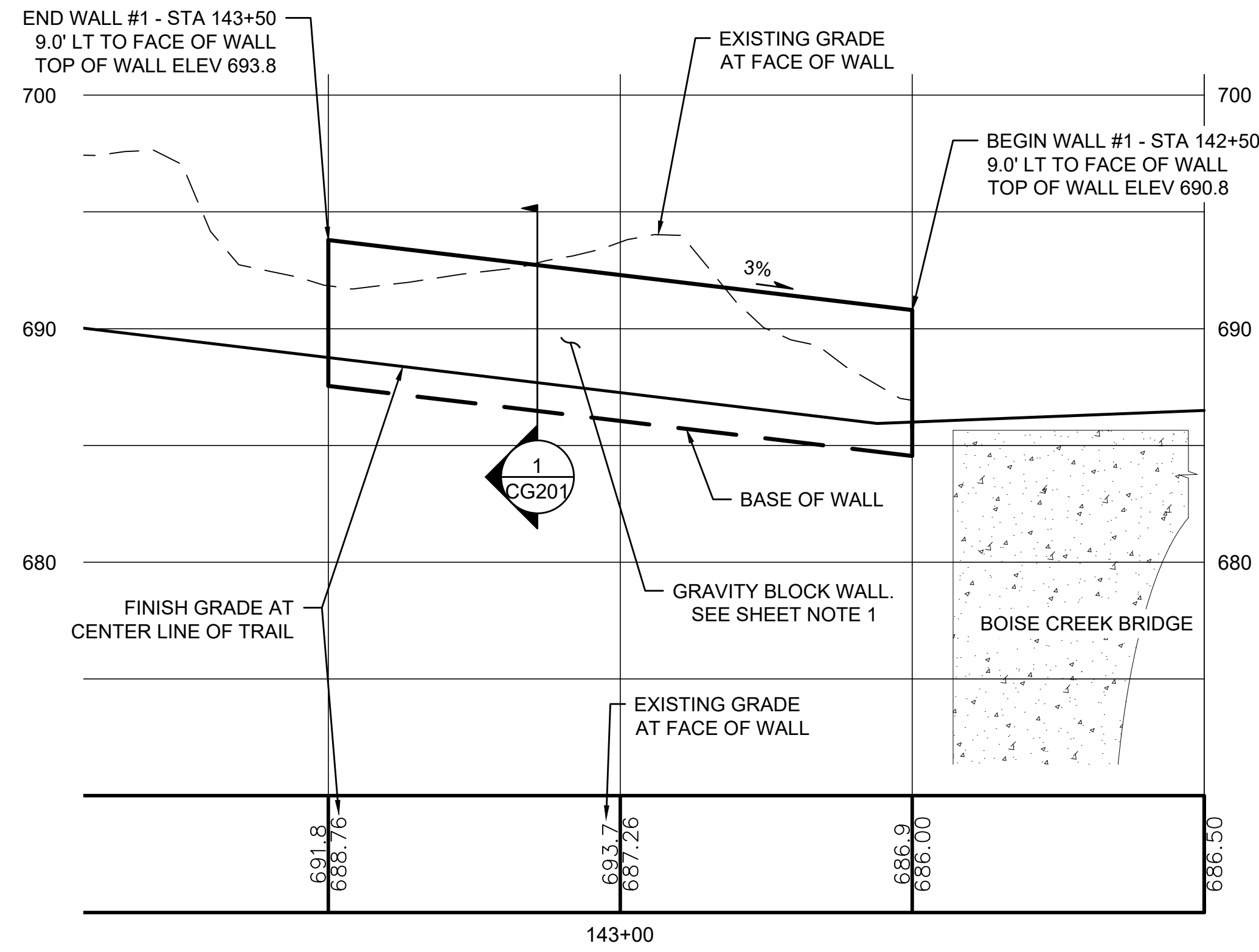


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PHASE II SEGMENT B
KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
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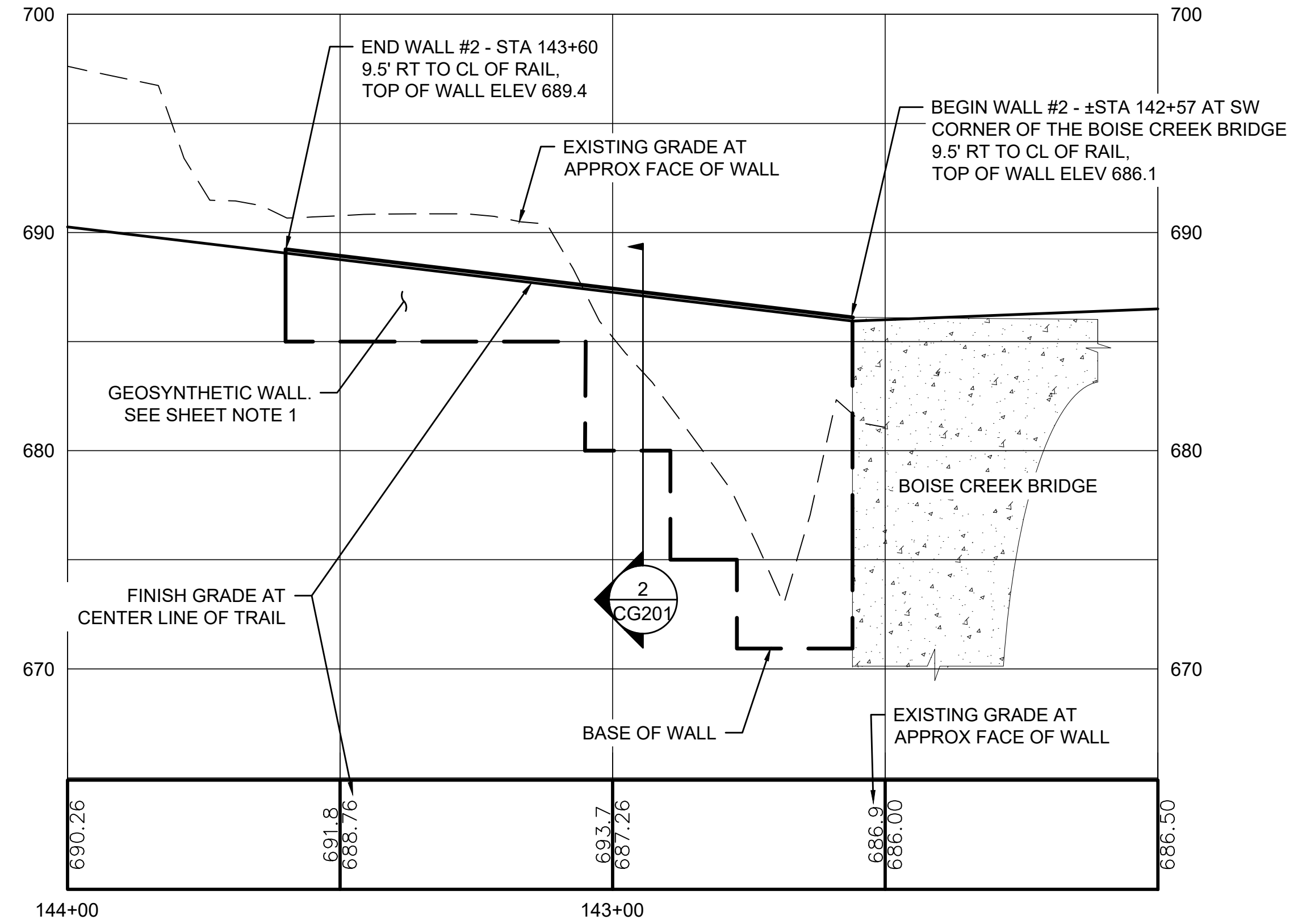
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ID	DATE	DESCRIPTION
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PROJECT NO. 15095305
SITE NO.
FILE
CONTRACT NO. E00115E08 - AM. 20
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SHEET TITLE

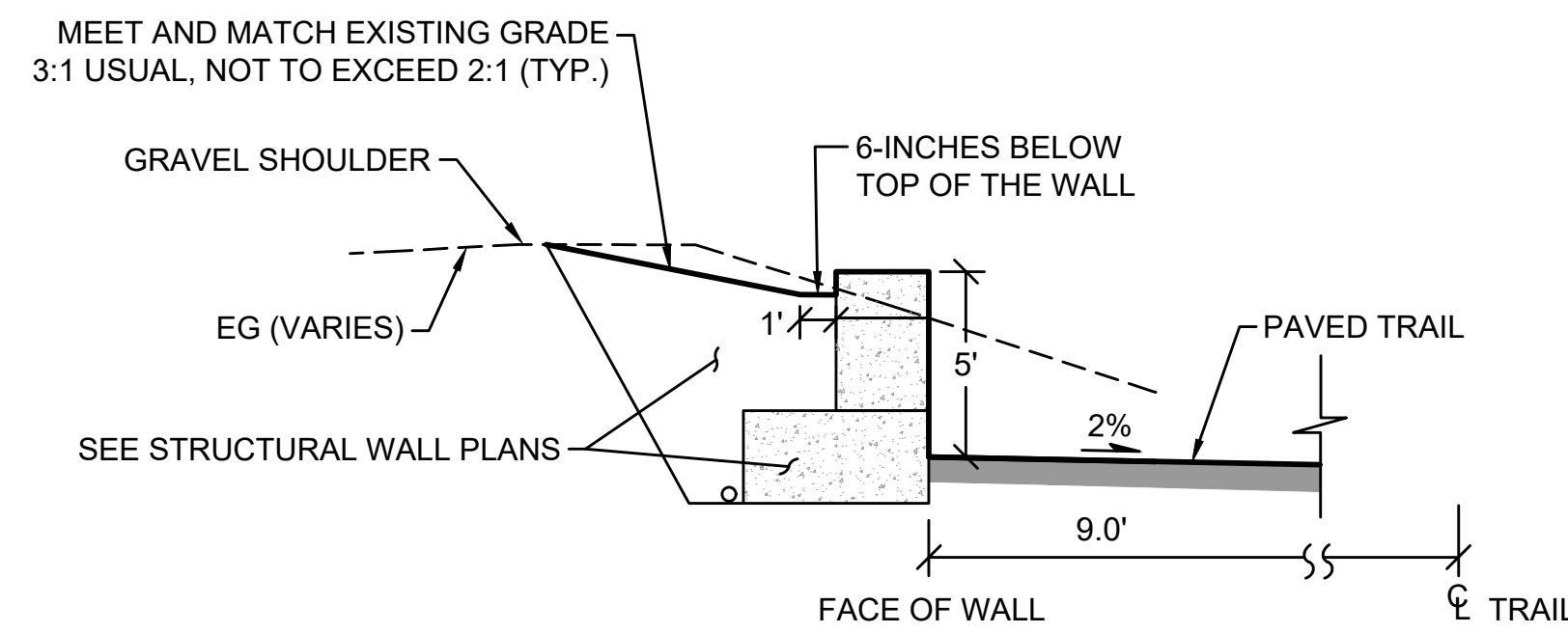
WALL #S 1 & 2
PROFILE & SECTIONS



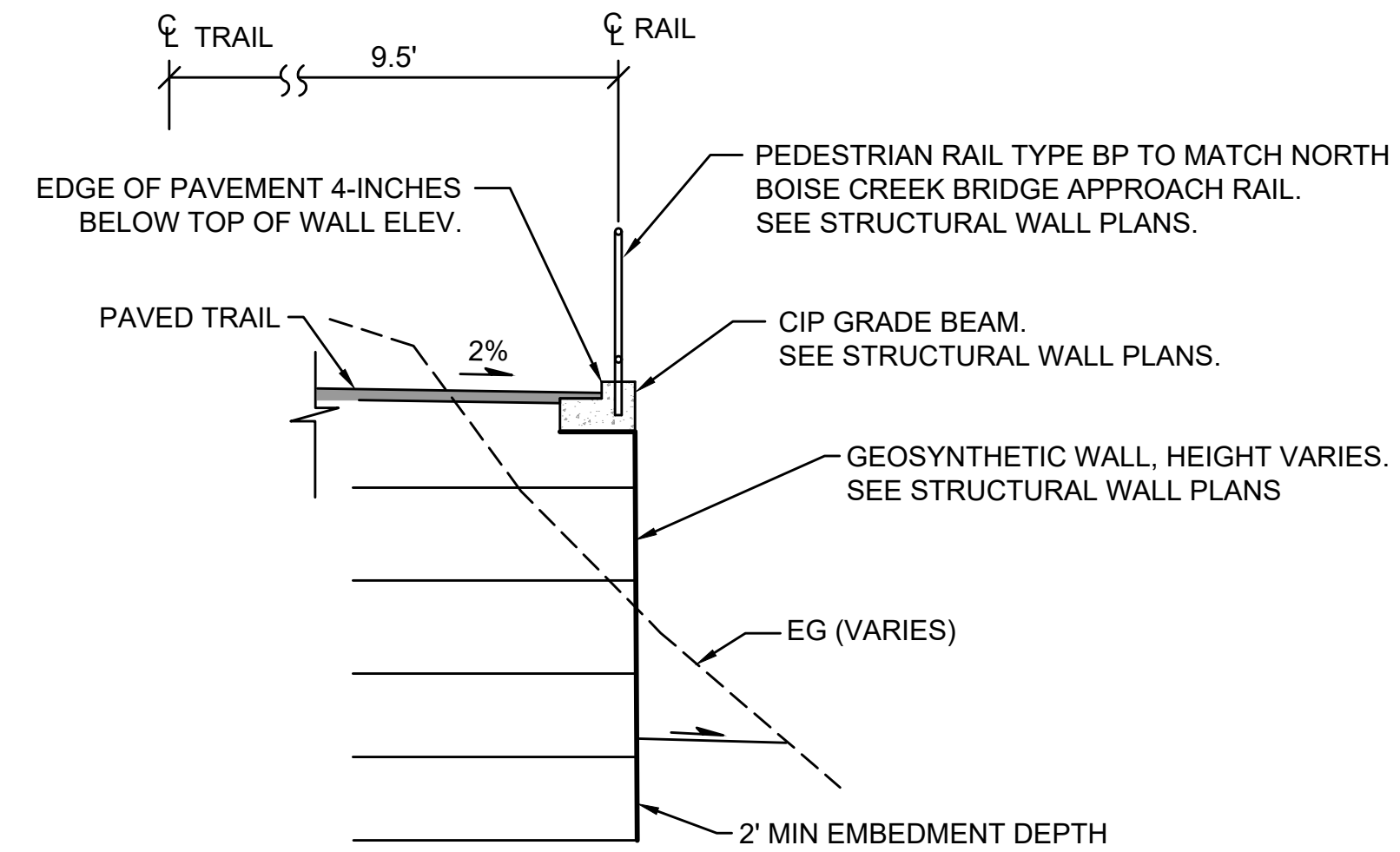
WALL #1 - GRAVITY CONCRETE BLOCK WALL PROFILE
(NEAR SE CORNER OF BOISE CREEK BRIDGE)



WALL #2 - STRUCTURAL EARTH WALL PROFILE
(SW CORNER OF BOISE CREEK BRIDGE)



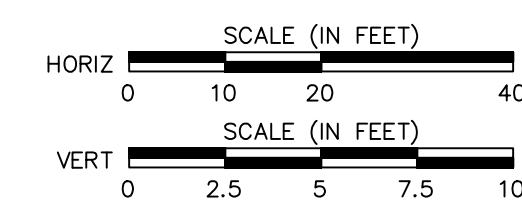
1 WALL #1 - GRAVITY CONCRETE BLOCK WALL SECTION
CG-201 STA 142+50 TO 143+50, LT (NTS)



2 WALL #2 - STRUCTURAL EARTH WALL SECTION
CG-201 BOISE CREEK BRIDGE TO STA 143+60, RT (NTS)

SHEET NOTES:

- WALL INFORMATION ILLUSTRATED ON THE CIVIL PLAN SET SHOWN FOR REFERENCE ONLY. SEE STRUCTURAL WALL DRAWING SHEETS (S-100 SERIES) FOR WALL NOTES, SECTIONS AND DETAILS.



GRDE XX-XXXX

KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

CG-201



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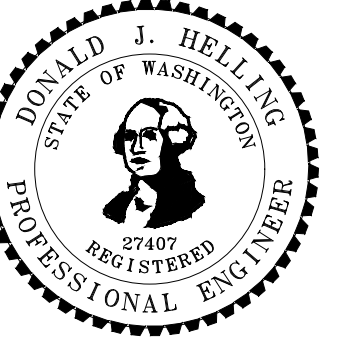
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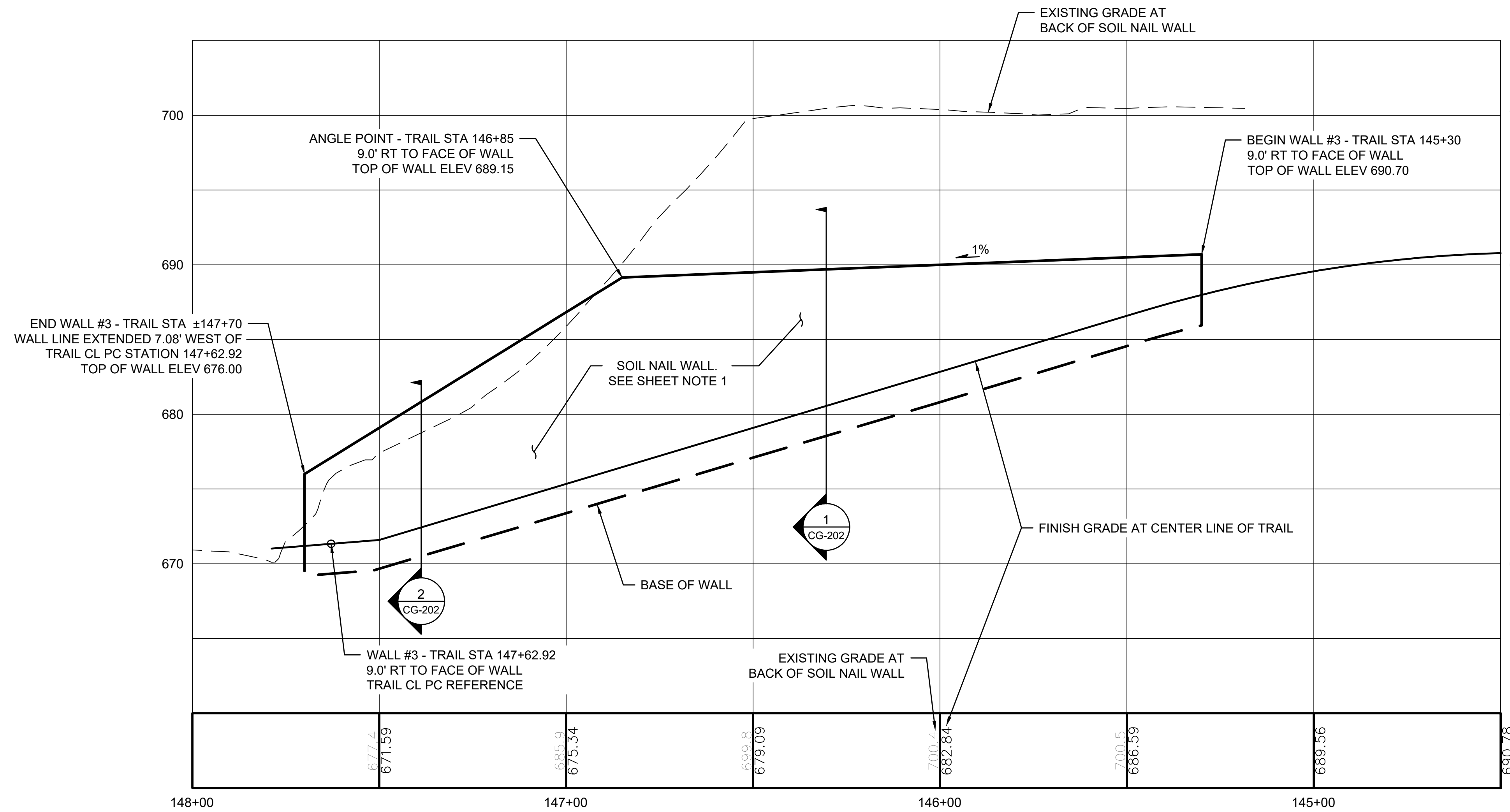
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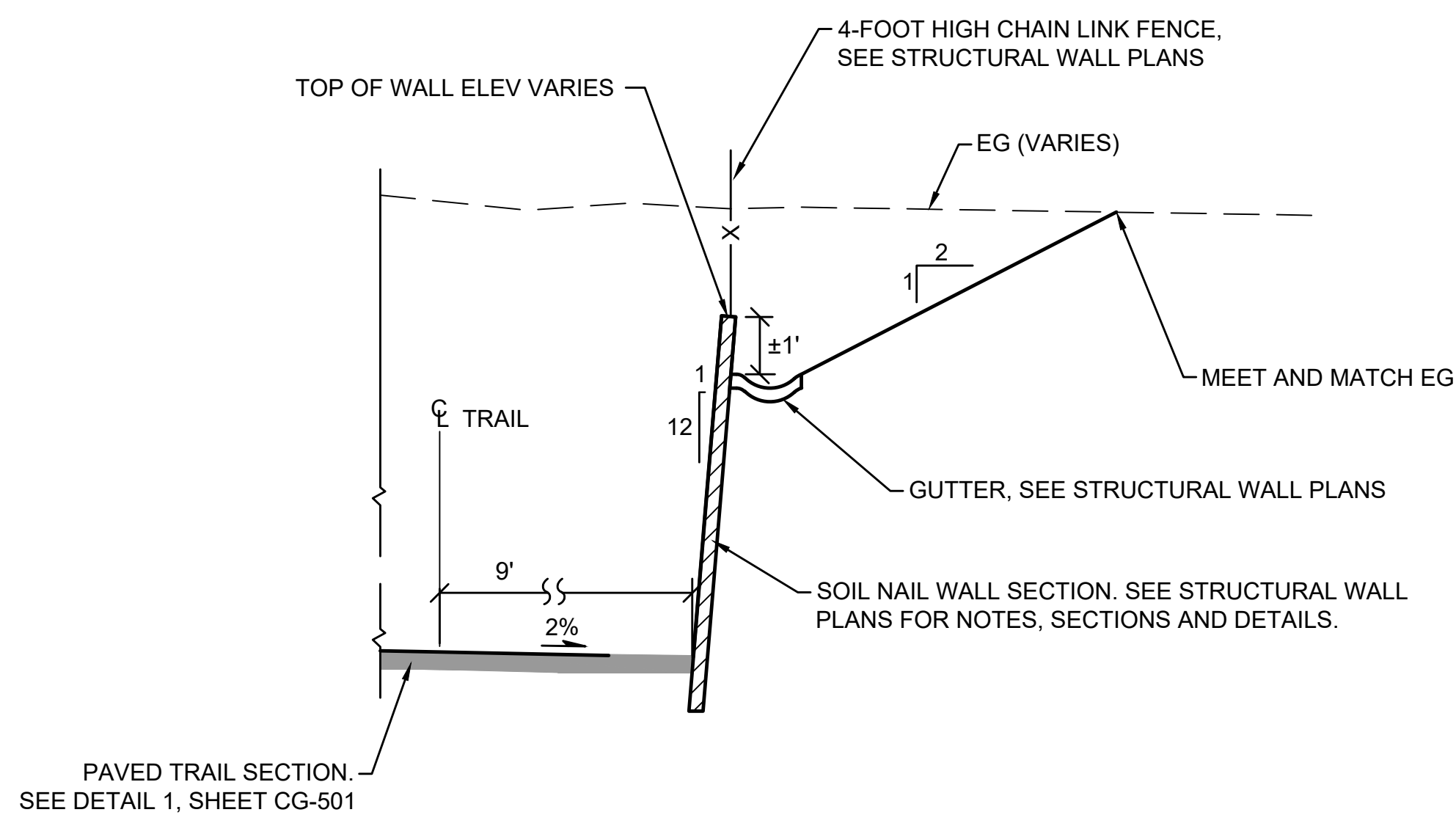
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PHASE II SEGMENT B
KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
CONTRACT # C---

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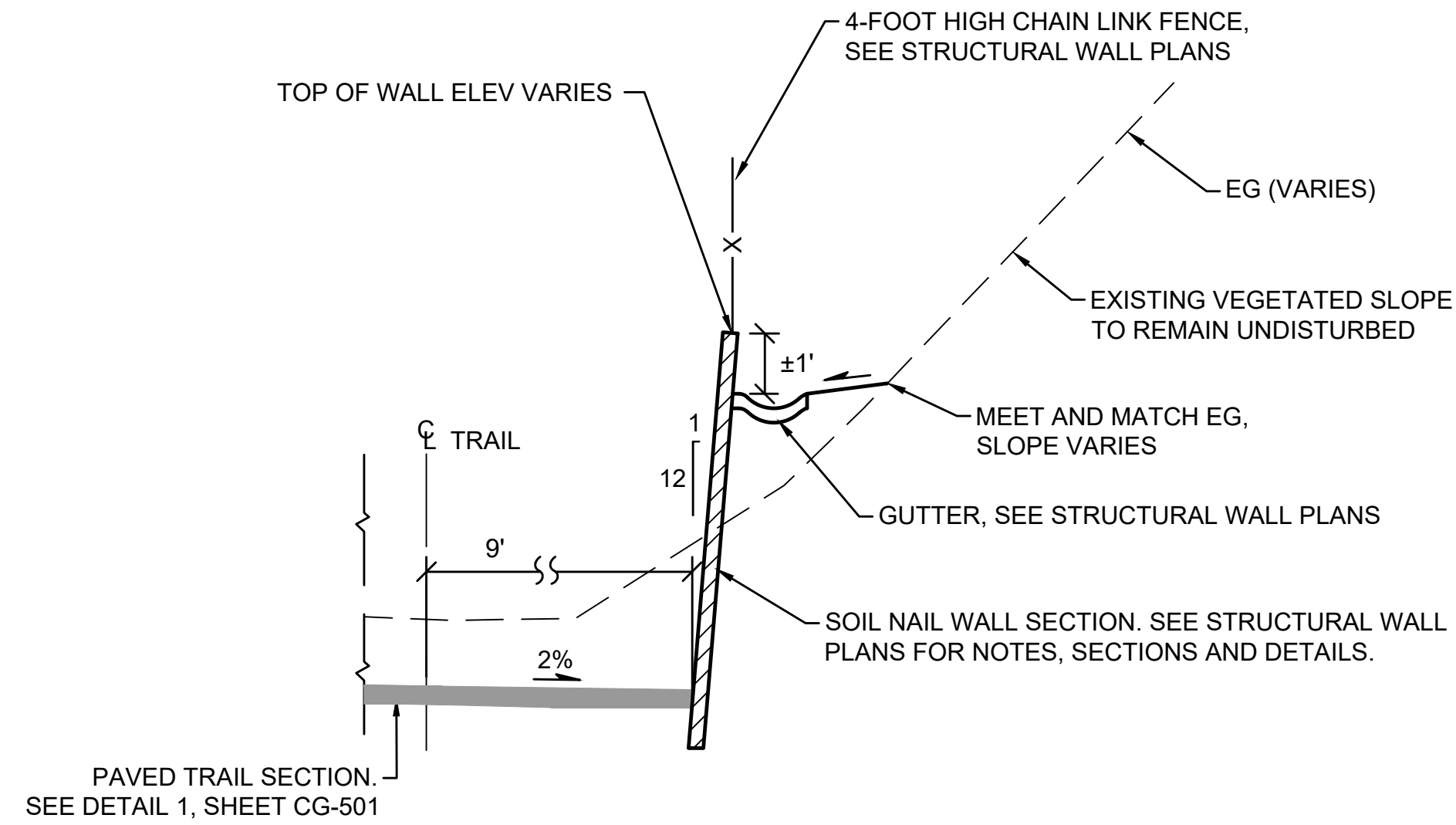
PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY VUL CHECKED BY GRS
 SHEET TITLE
WALL # 3
PROFILE & SECTIONS



WALL #3 PROFILE - CUT WALL/ SOIL NAIL WALL



1 WALL #3 - SOIL NAIL WALL (NTS)



2 WALL #3 - SOIL NAIL WALL (NTS)

GRDE XX-XXXX

KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

CG-202



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FOOTHILLS TRAIL
PHASE II SEGMENT B
KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
CONTRACT # C---

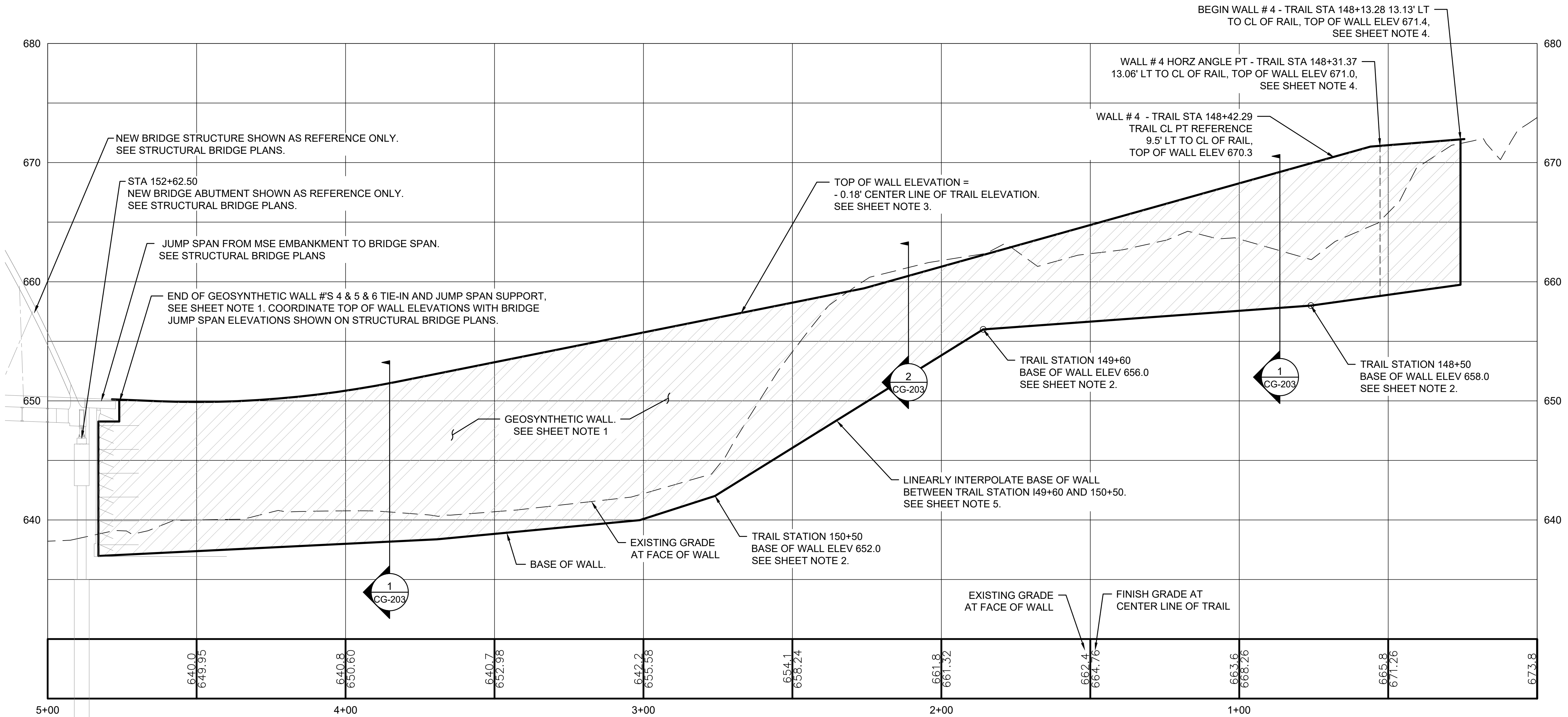
ISSUE / REVISIONS	ID	DATE	DESCRIPTION
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PROJECT NO. 15095305
SITE NO.
FILE
CONTRACT NO. E00115E08 - AM. 20
DRAWN BY VUL CHECKED BY GRS
SHEET TITLE

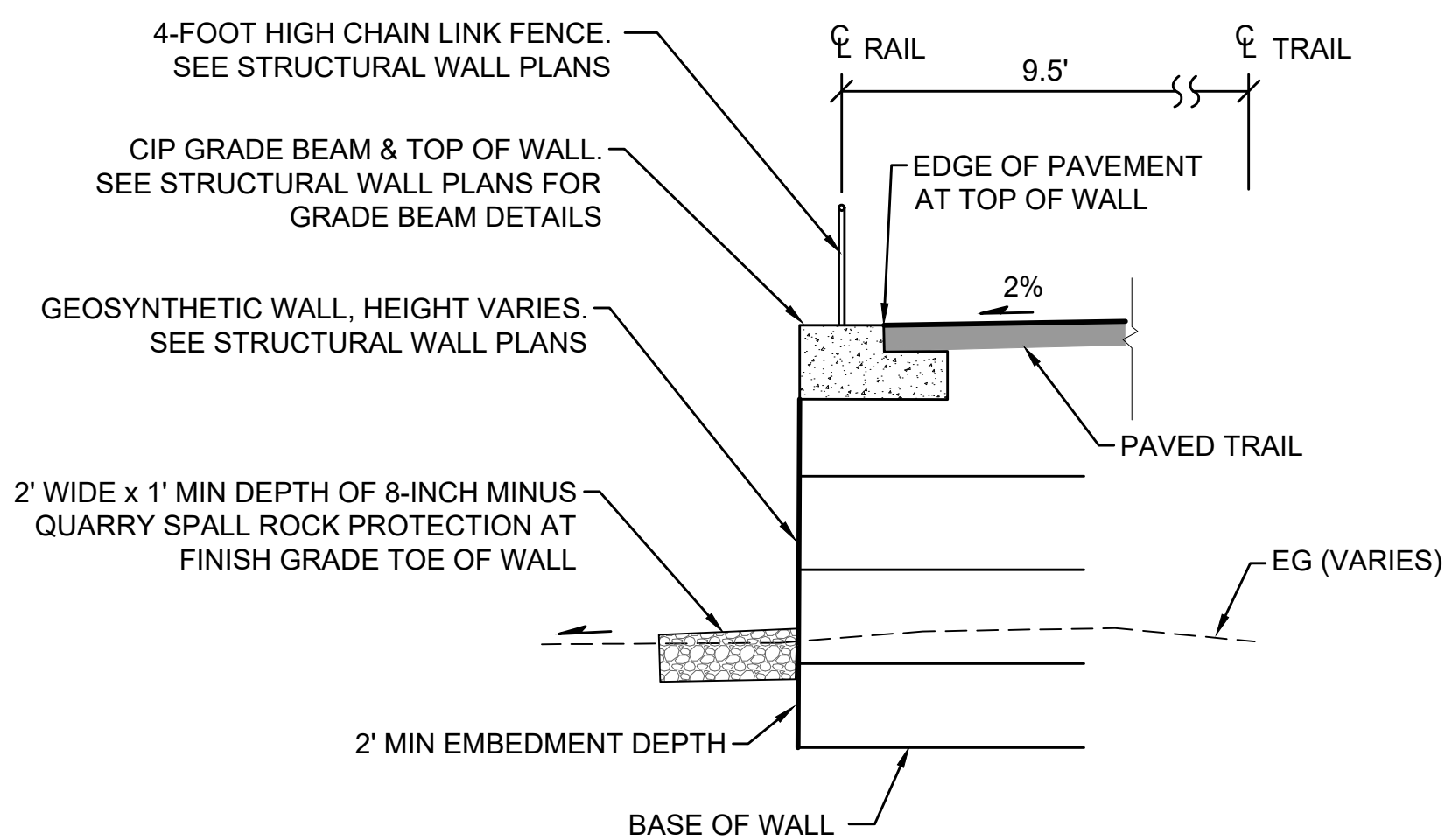
WALL # 4
PROFILE &
SECTIONS

CG-203

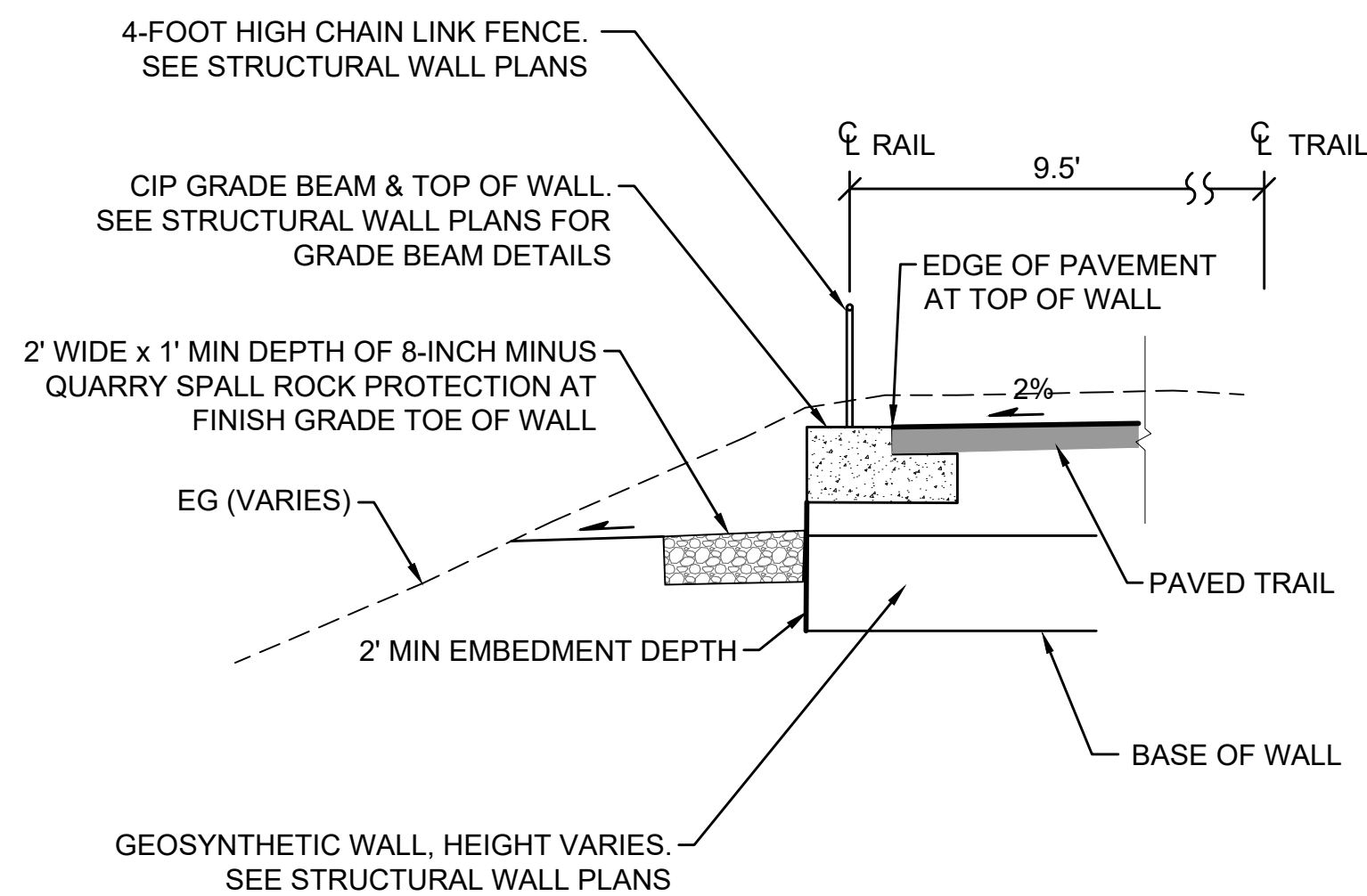
29 OF 52



WALL #4 PROFILE - GEOSYNTHETIC MSE WALL
(SOUTH SIDE OF MMR, EAST SIDE OF TRAIL)



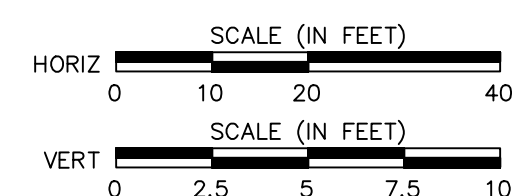
1 WALL #4 - GEOSYNTHETIC MSE WALL SECTION
CG-203 IN FILL AREA (NTS)



2 WALL #4 - GEOSYNTHETIC MSE WALL SECTION
CG-203 IN CUT AREA (NTS)

SHEET NOTES:

1. WALL INFORMATION ILLUSTRATED ON THE CIVIL PLAN SET SHOWN FOR REFERENCE ONLY. SEE STRUCTURAL WALL DRAWING SHEETS (S-100 SERIES) FOR WALL NOTES, SECTIONS AND DETAILS.
2. SITE SPECIFIC BOTTOM OF WALL MINIMUM EMBEDMENT ELEVATIONS SHOWN.
3. CENTER LINE OF TRAIL ALIGNMENT LOCATION AND PROFILE ELEVATIONS ARE SHOWN ON THE CG-100 SERIES DRAWINGS.
4. TOP OF WALL ELEVATION GIVEN WHERE THE DISTANCE FROM THE CENTER LINE OF TRAIL IS GREATER THAN THE TYPICAL 9-FOOT OFFSET DISTANCE.
5. STEP THE BOTTOM OF WALL ELEVATION BETWEEN STATIONS 149+60 AND 150+50 WHILE STAYING BELOW THE LINEAR INTERPOLATION LINE.



GRDE XX-XXXX
KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

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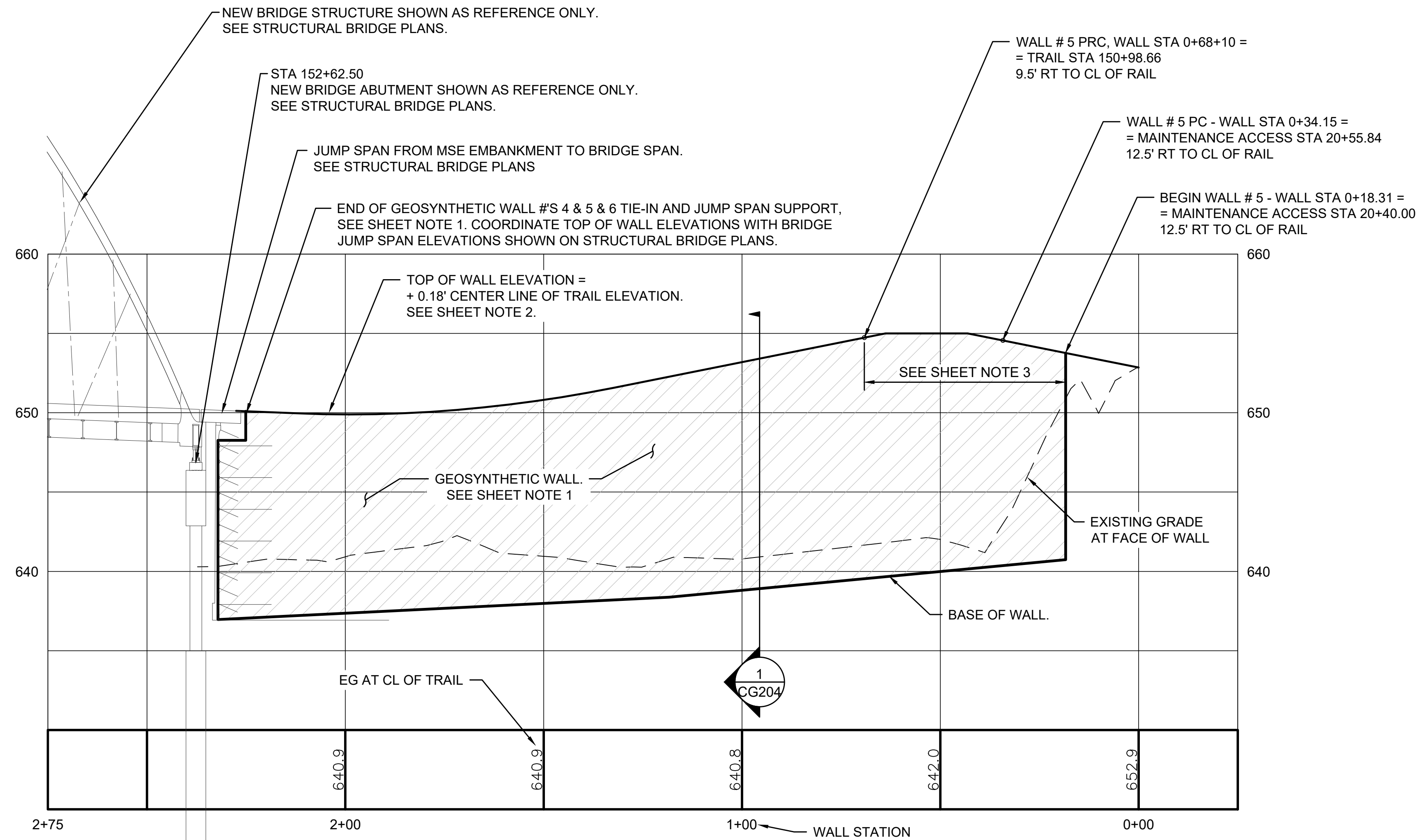
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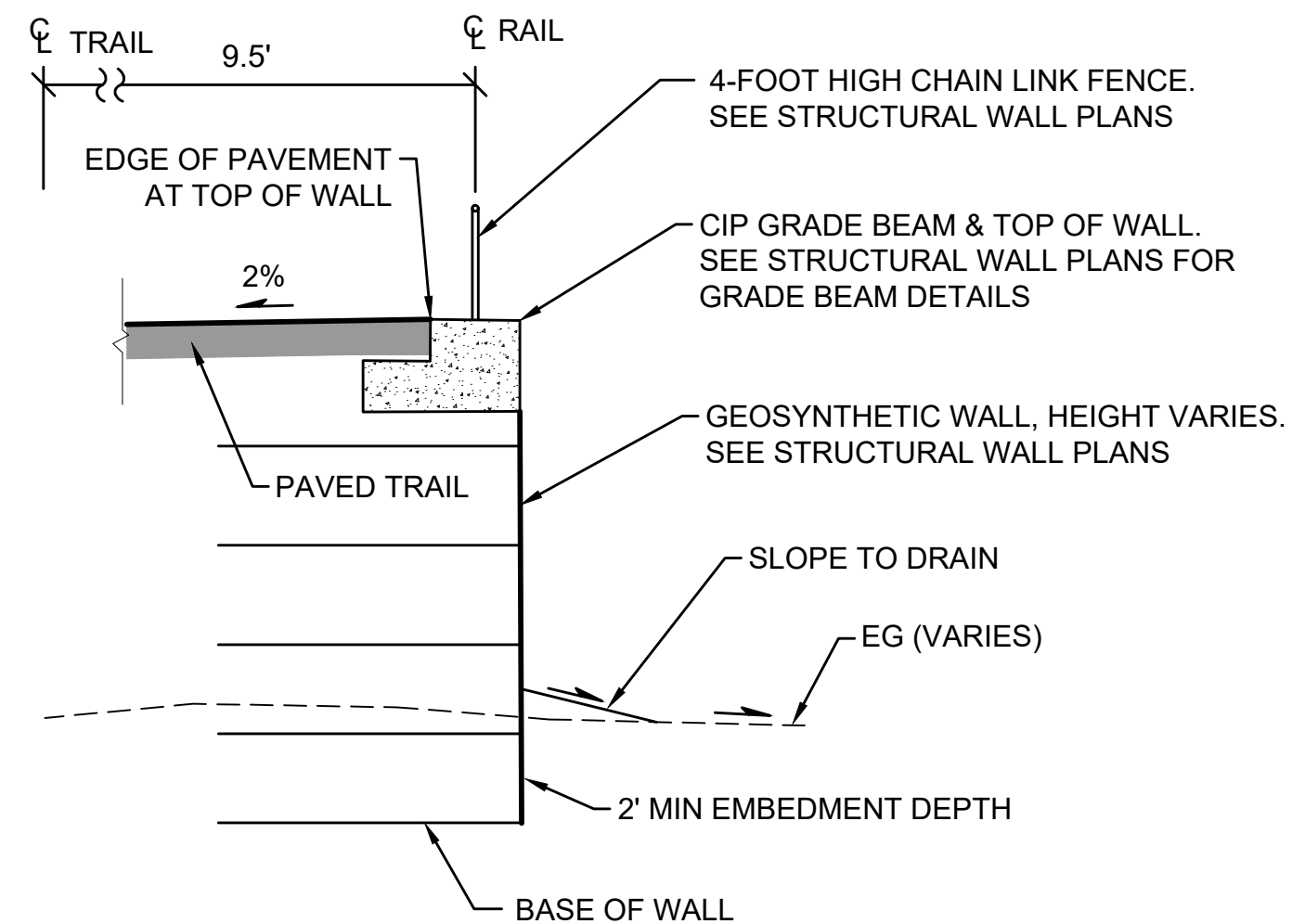
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FOOTHILLS TRAIL
PHASE II SEGMENT B
KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
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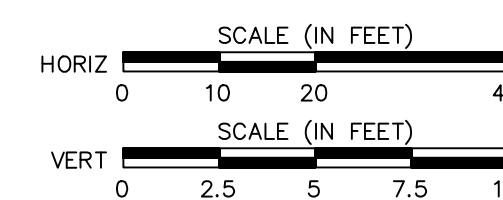
WALL #5 PROFILE - FILL WALL
(WEST SIDE OF ACCESS ROAD AND TRAIL)



1 WALL #5 - SECTION
CG-204 IN FILL AREA (NTS)

SHEET NOTES:

- 1. WALL INFORMATION ILLUSTRATED ON THE CIVIL PLAN SET SHOWN FOR REFERENCE ONLY. SEE STRUCTURAL WALL DRAWING SHEETS (S-100 SERIES) FOR WALL NOTES, SECTIONS AND DETAILS.
- 2. CENTER LINE OF TRAIL ALIGNMENT LOCATION AND PROFILE ELEVATIONS ARE SHOWN ON THE CG-100 SERIES DRAWINGS.
- 3. SEE POINT TABLE, SHEET CG-106 FOR TOP OF WALL #5/ EP ELEVATION BETWEEN BEGIN AND POINT OF REVERSE CURVE (PRC) LOCATION OF WALL #5. TOP OF WALL #5 PROFILE IS SHOWN AS APPROXIMATE FOR THIS WALL PORTION.



GRDE XX-XXXX
KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

ISSUE / REVISIONS

ID	DATE	DESCRIPTION
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△	5/24/2021	90% SUBMITTAL

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SITE NO.
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SHEET TITLE
WALL # 5
PROFILE & SECTION

CG-204
30 OF 52



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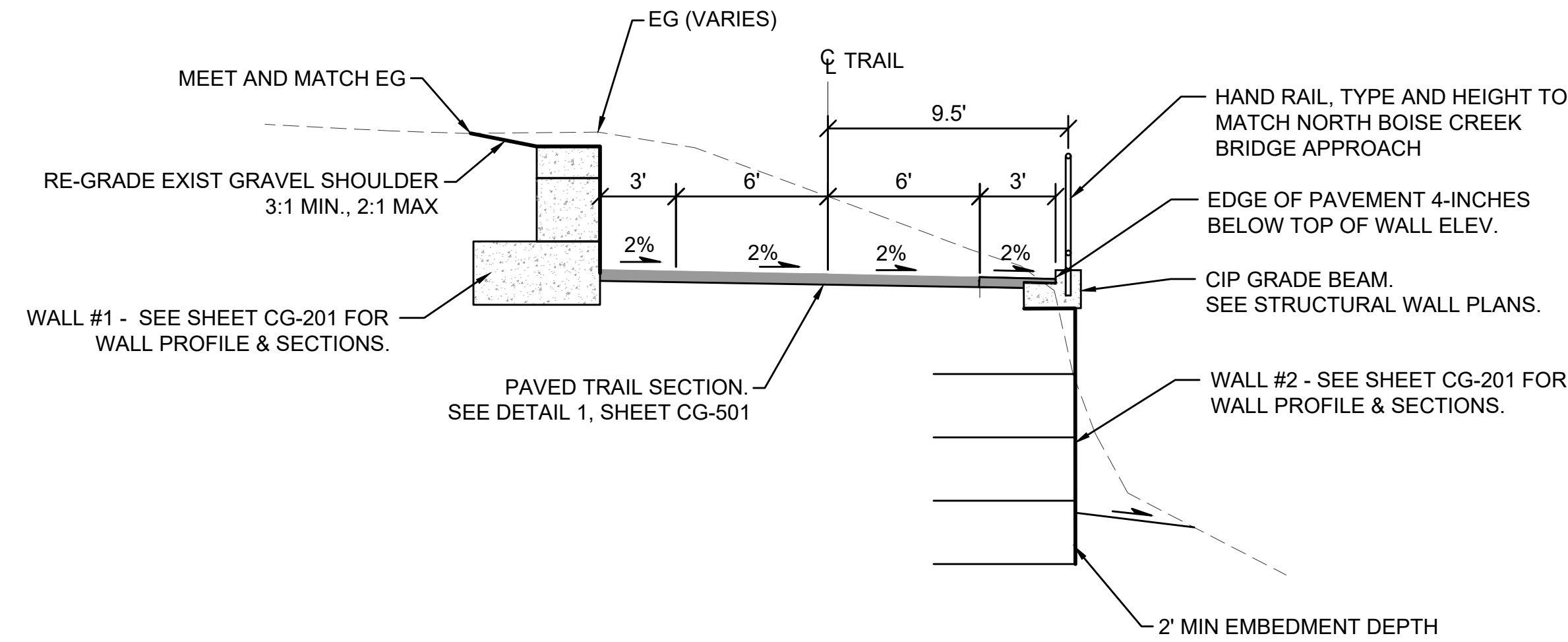
SEC. 34 & 35, T 20 N, R 6 E, W.M.



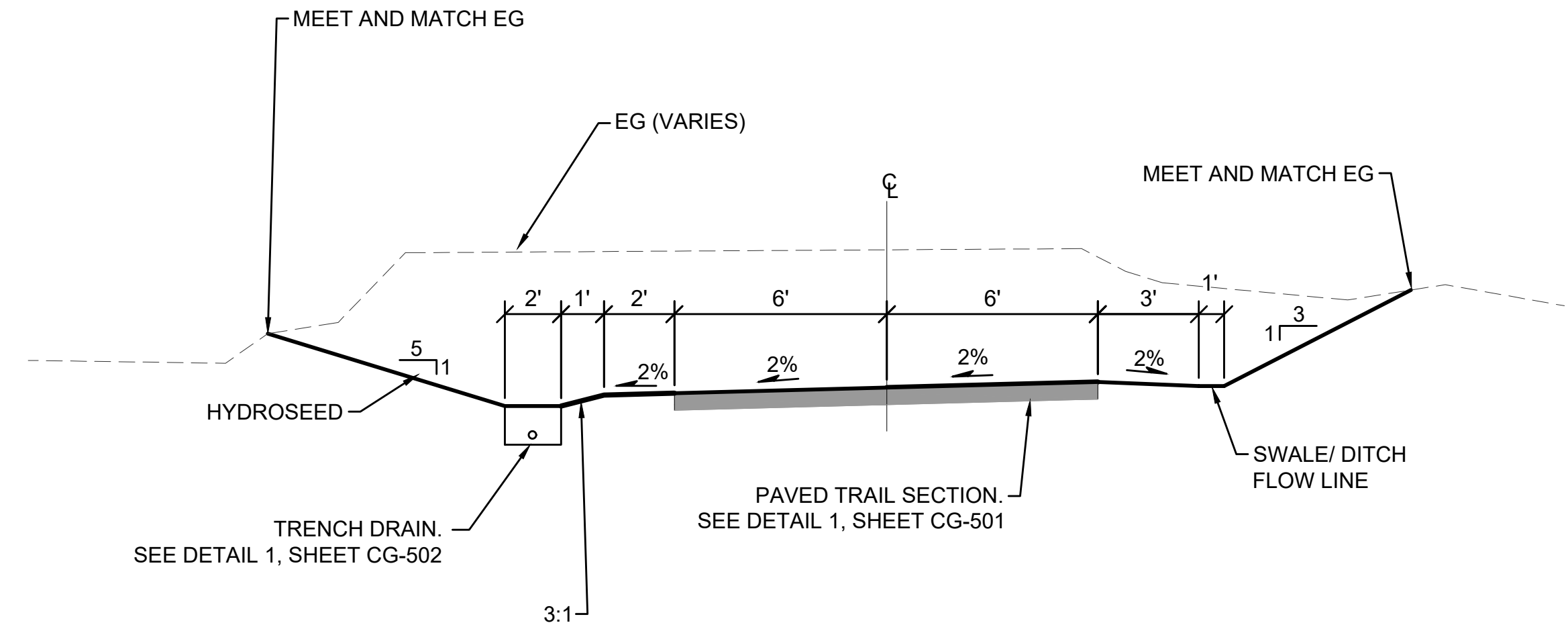
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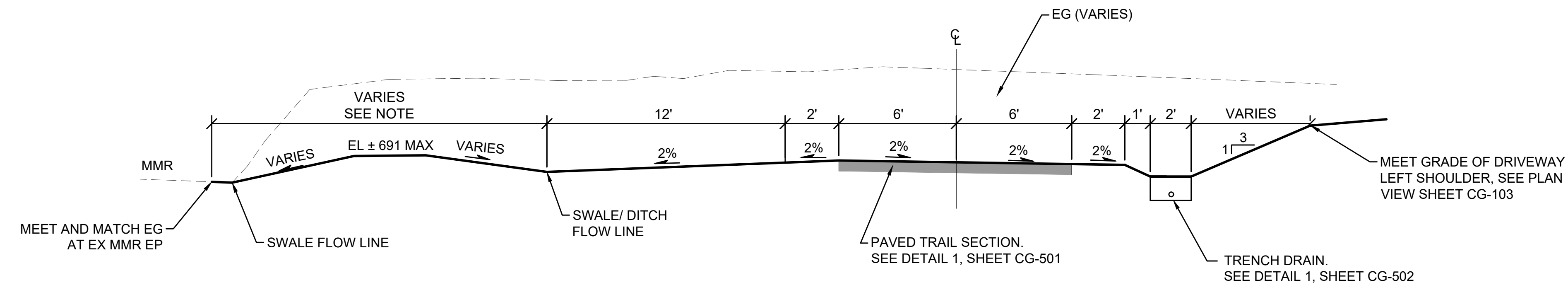
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1 GRADING SECTION
 CG301 TRAIL AT WALLS #1 AND #2 (NTS)



2 GRADING SECTION
 CG301 FROM END OF WALL #2 TO DRIVEWAY NORTH APPROACH (NTS)



3 GRADING SECTION
 CG301 FROM DRIVEWAY SOUTH APPROACH TO BEGIN WALL #3 (NTS)

NOTE:
 GRADING VARIES BETWEEN SWALE FLOW LINE AND MMR EP. SEE PLAN VIEW SHEET CG-103.

FOOTHILLS TRAIL
 PHASE II SEGMENT B
 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
 CONTRACT # C---

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PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
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SHEET TITLE
 GRADING SECTIONS,
 BOISE CREEK
 TO
 SE MMR RD

GRDE XX-XXXX	
KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

CG-301



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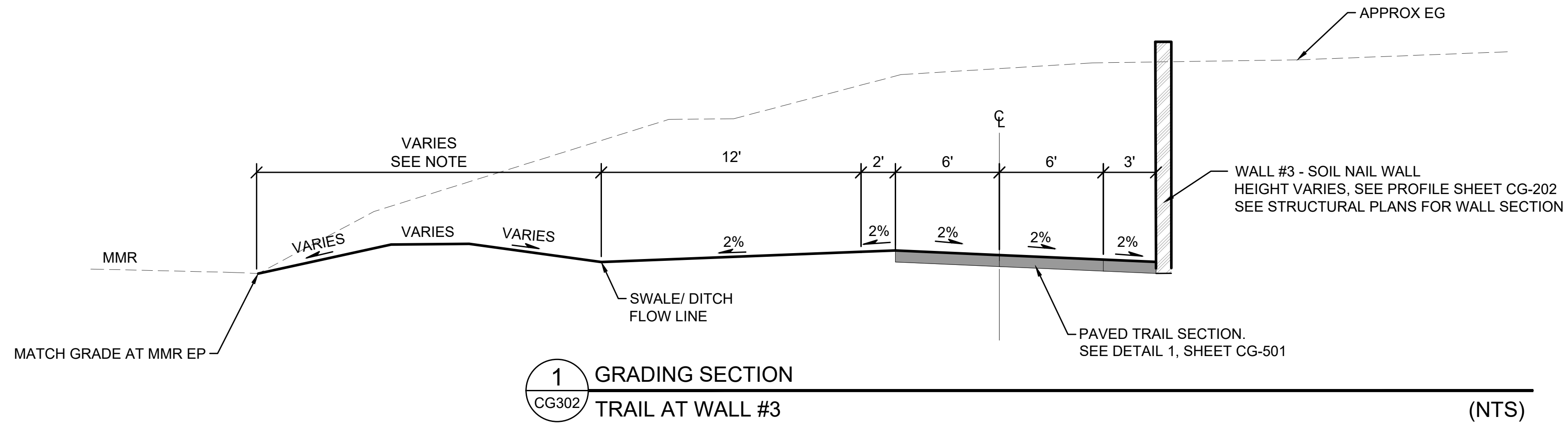
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 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
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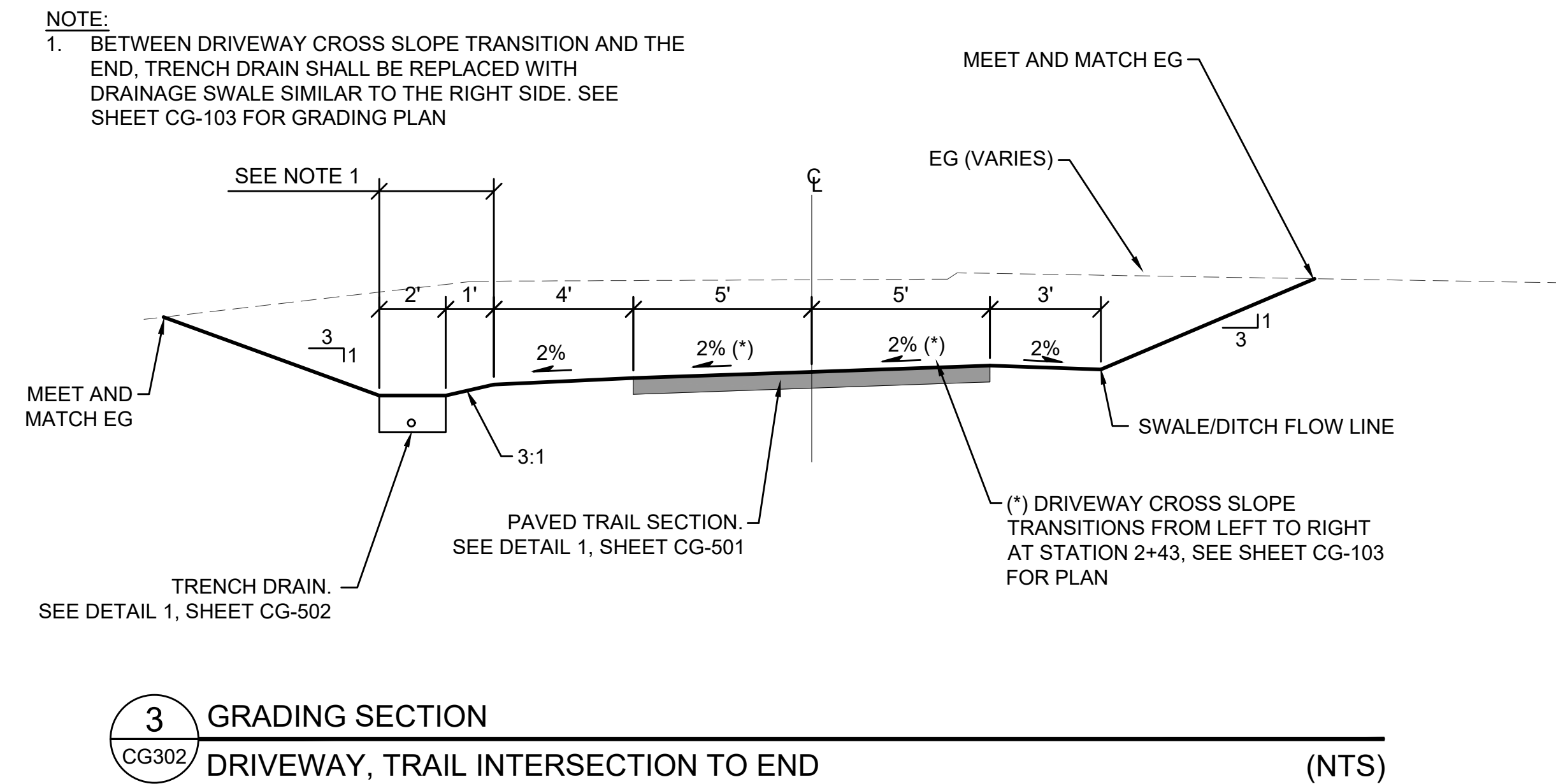
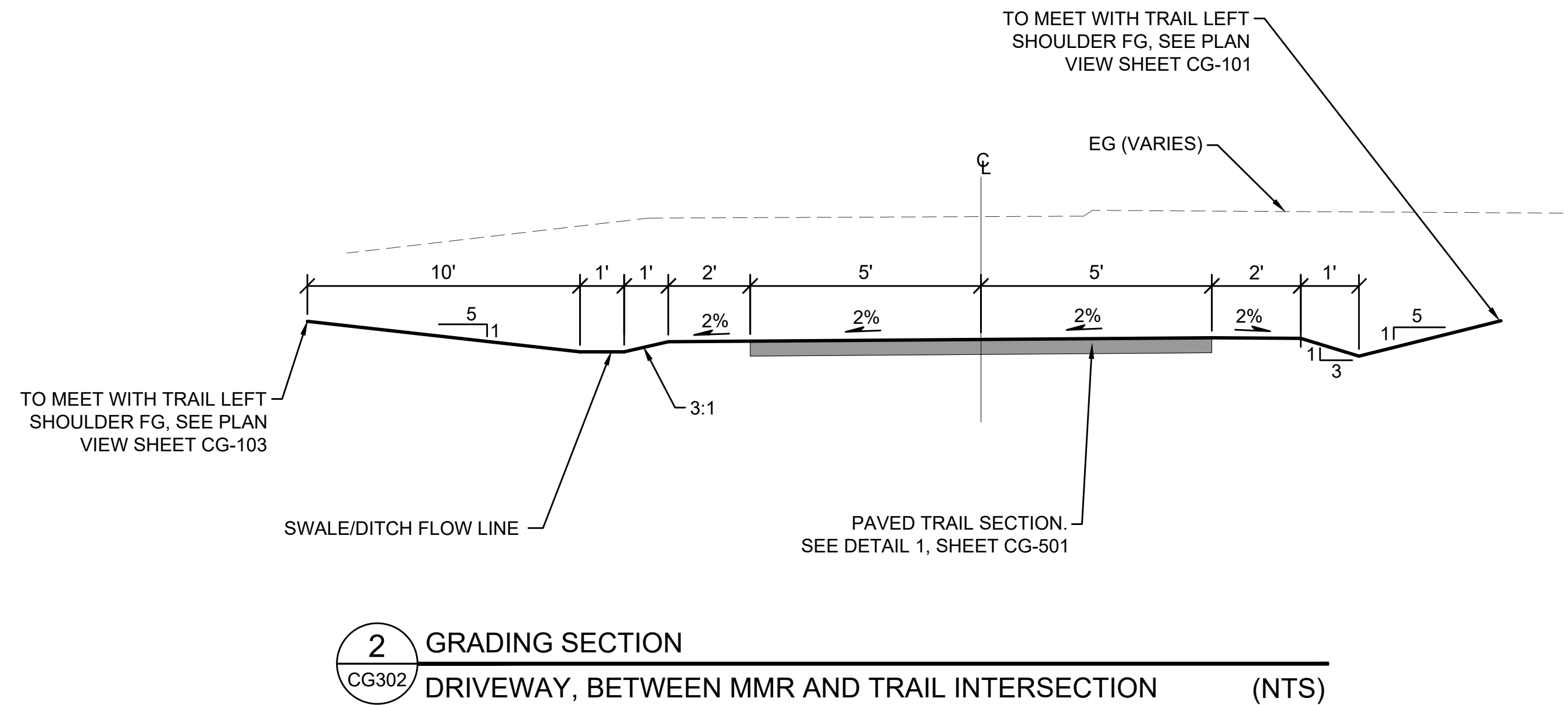
PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY VUL CHECKED BY GRS

SHHEET TITLE
**GRADING SECTIONS,
 BOISE CREEK
 TO
 SE MMR RD**

CG-302



NOTE:
 VARIED GRADING BETWEEN THE SWALE FLOW LINE AND MMR EP SHALL PROVIDE THE PROPOSED DRAINAGE APPROACH. SEE PLAN VIEW SHEET CG-103.



GRDE XX-XXXX
 KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



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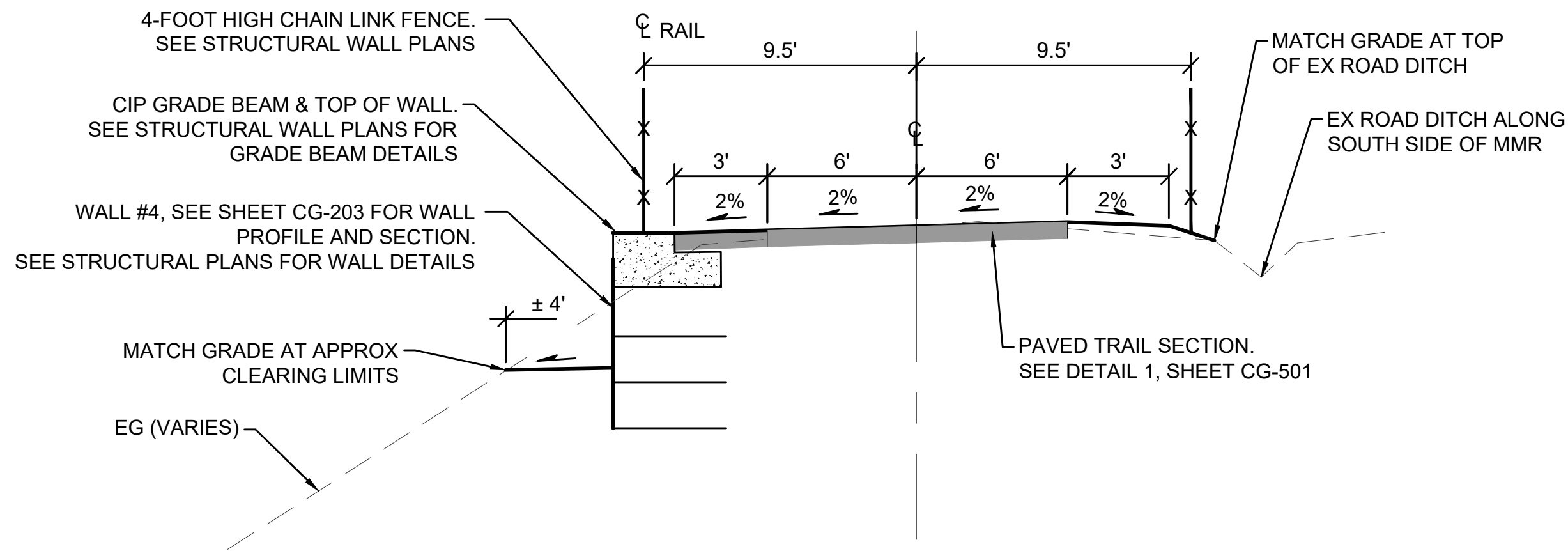
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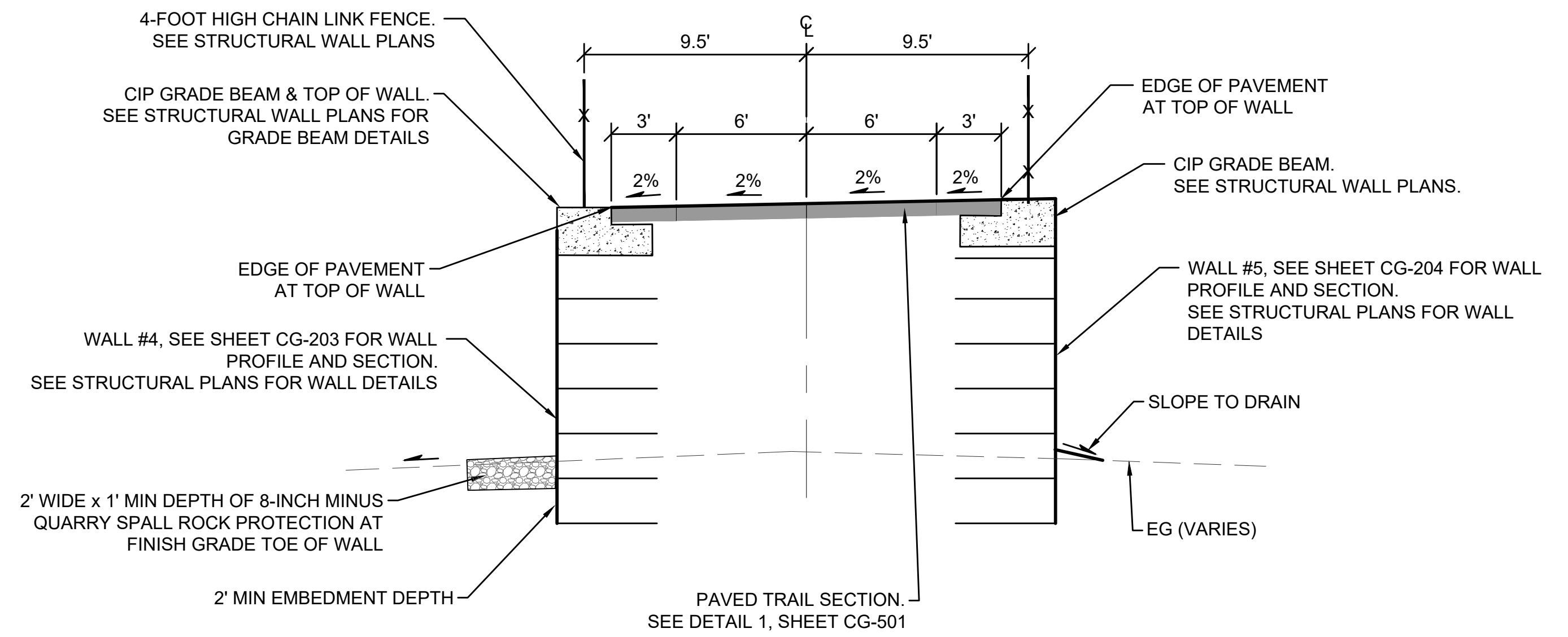
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 SITE NO.
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 SHEET TITLE

GRADING SECTIONS
 MUD MTN RD
 TO
 WHITE RIVER

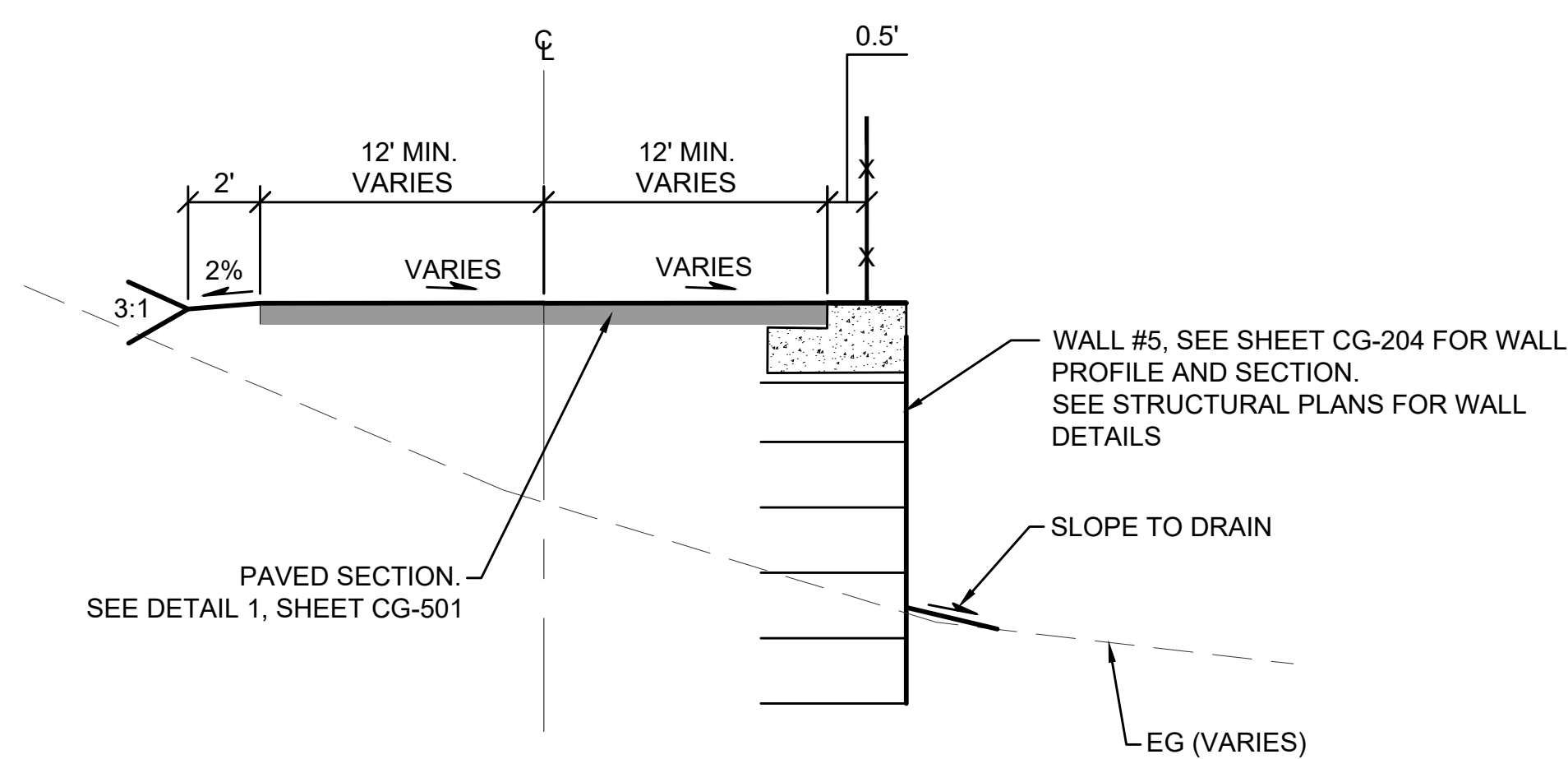
CG-303



1 GRADING SECTION
 CG303 TRAIL SECTION FROM MMR TO ACCESS ROAD APPROACH (NTS)



2 GRADING SECTION
 CG303 TRAIL SECTION FROM ACCESS ROAD TO WHITE RIVER BRIDGE APPROACH (NTS)



3 GRADING SECTION
 CG303 ACCESS ROAD (NTS)

GRDE XX-XXXX	
KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

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CONTRACT # C---

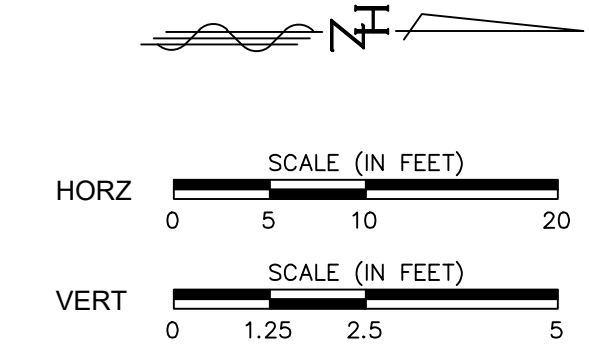
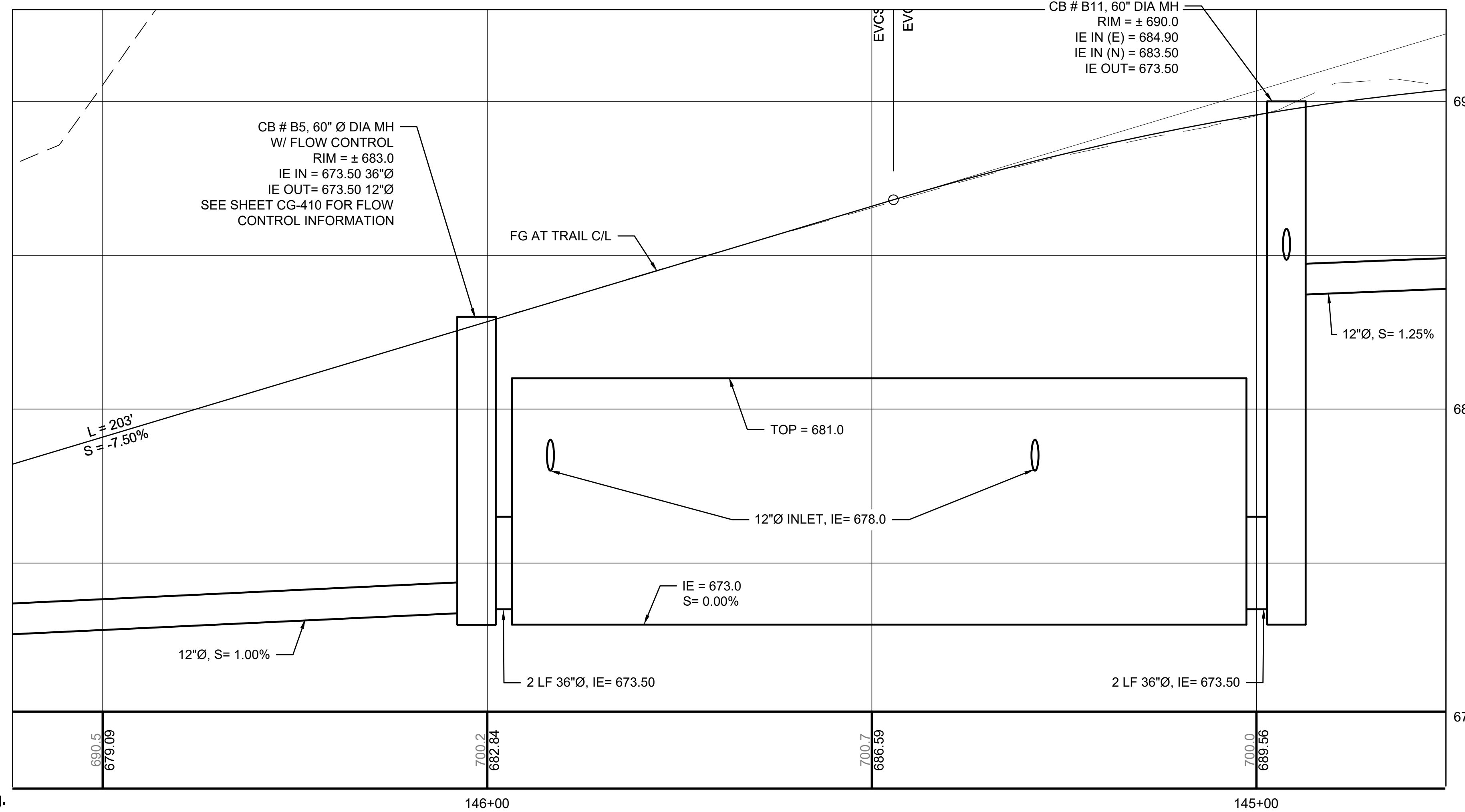
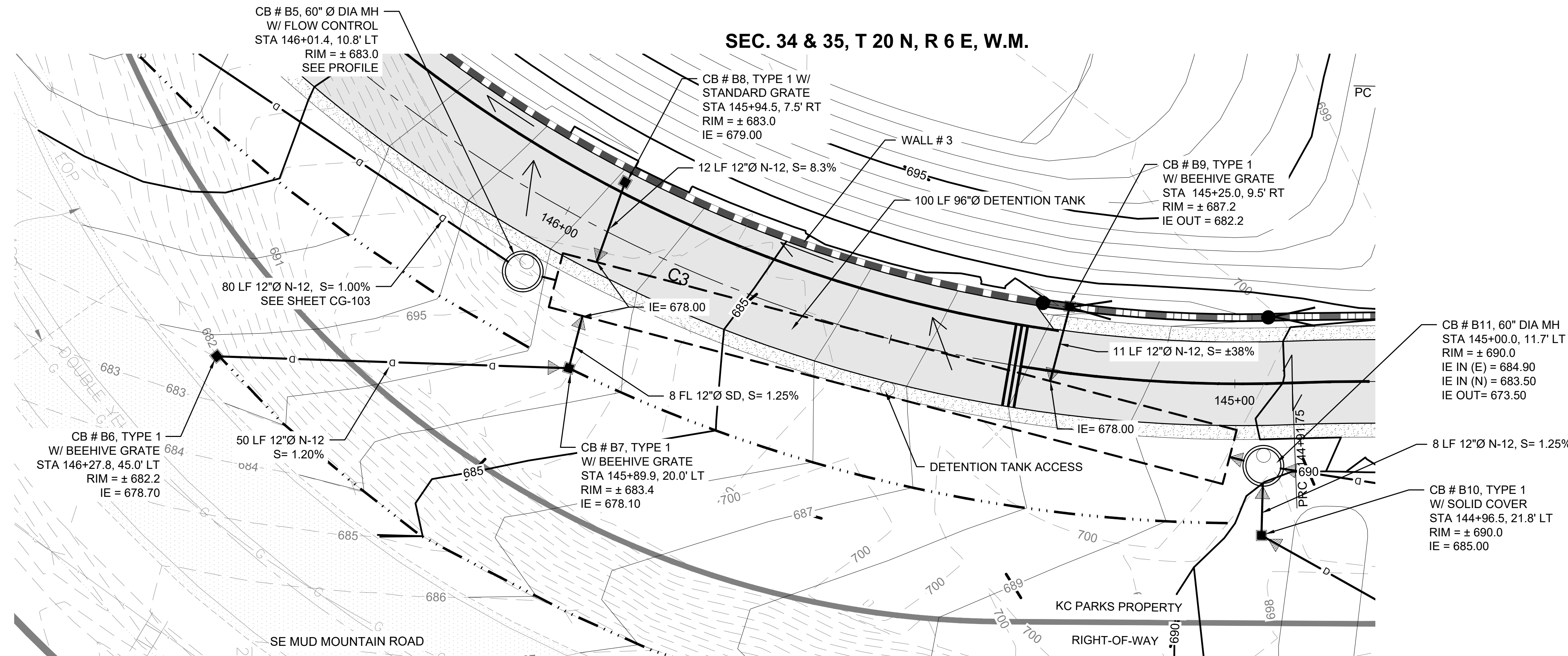
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SITE NO.
FILE
CONTRACT NO. E00115E08 - AM. 20
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SHEET TITLE

DETENTION SYSTEM
PLAN
AND
PROFILE

34 OF 52

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GRDE XX-XXXX
KING COUNTY DLSPD APPROVAL

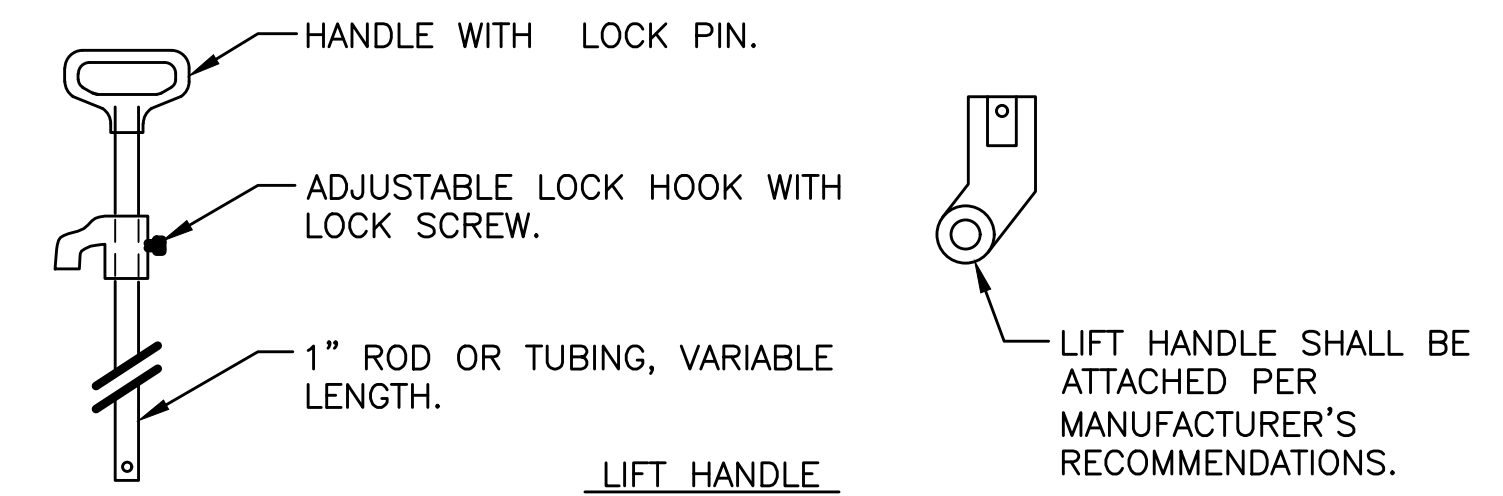
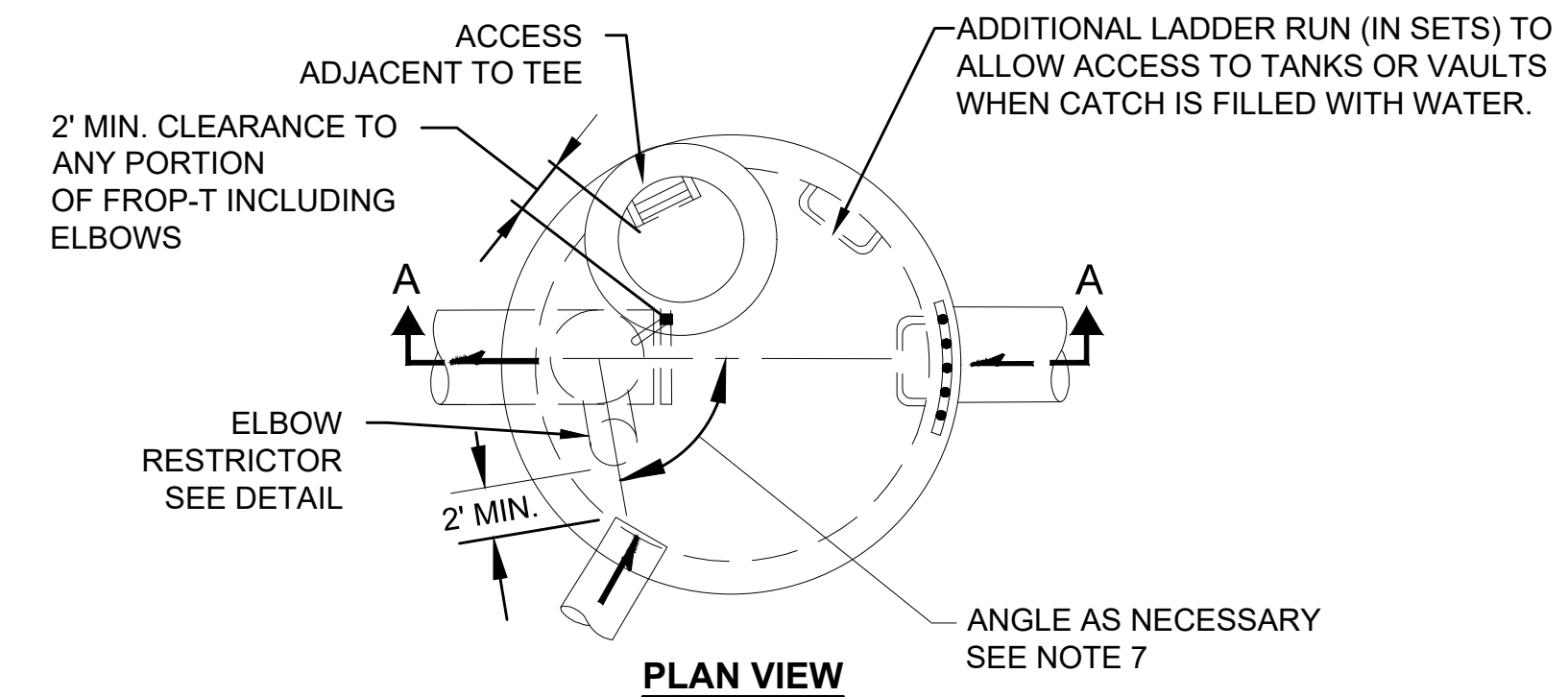
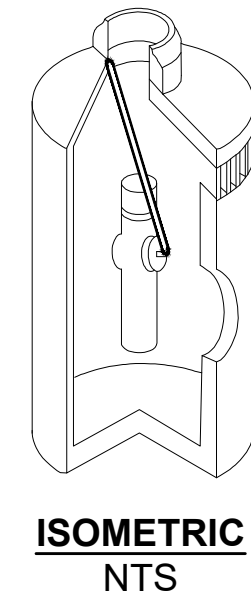
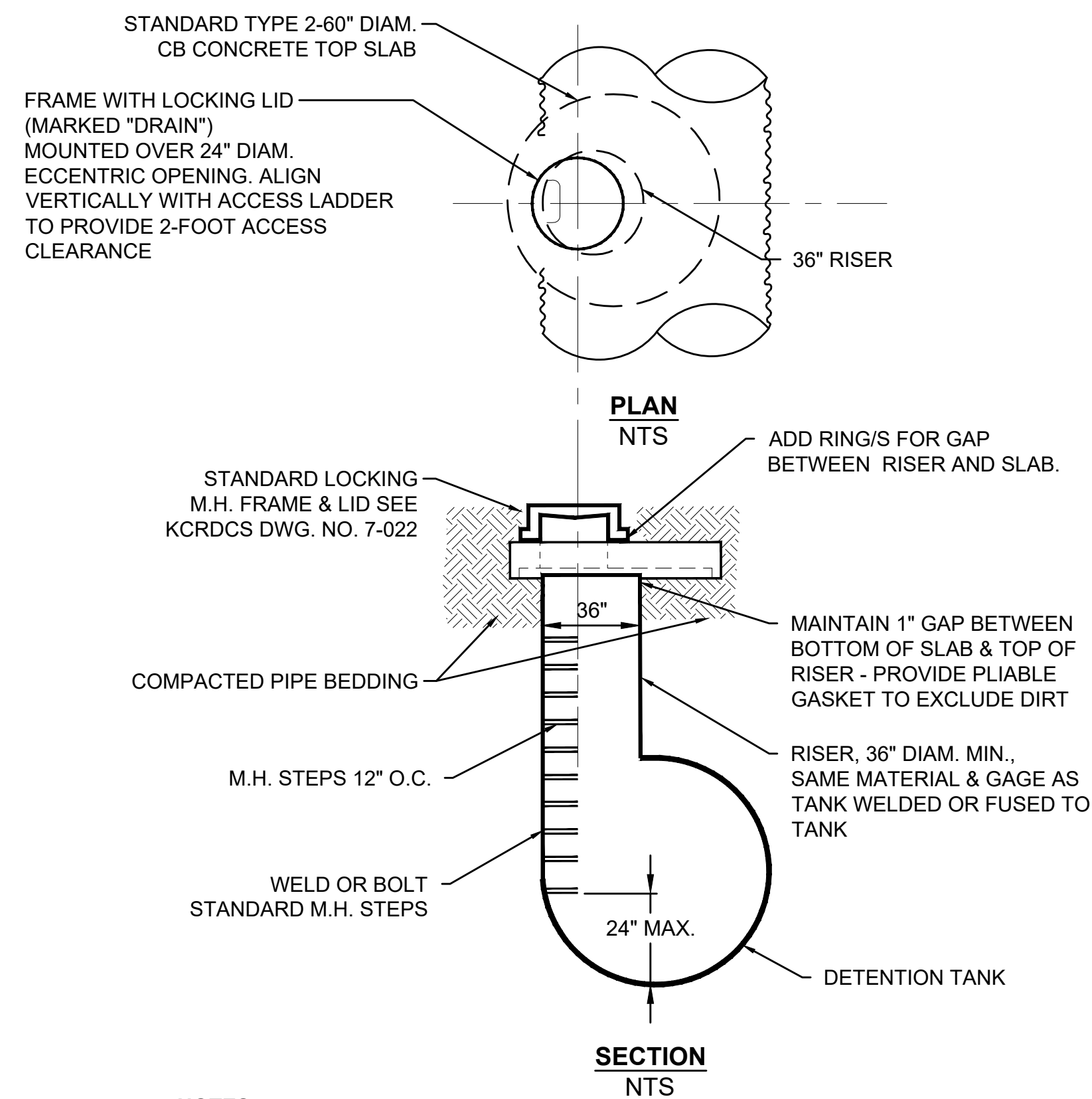
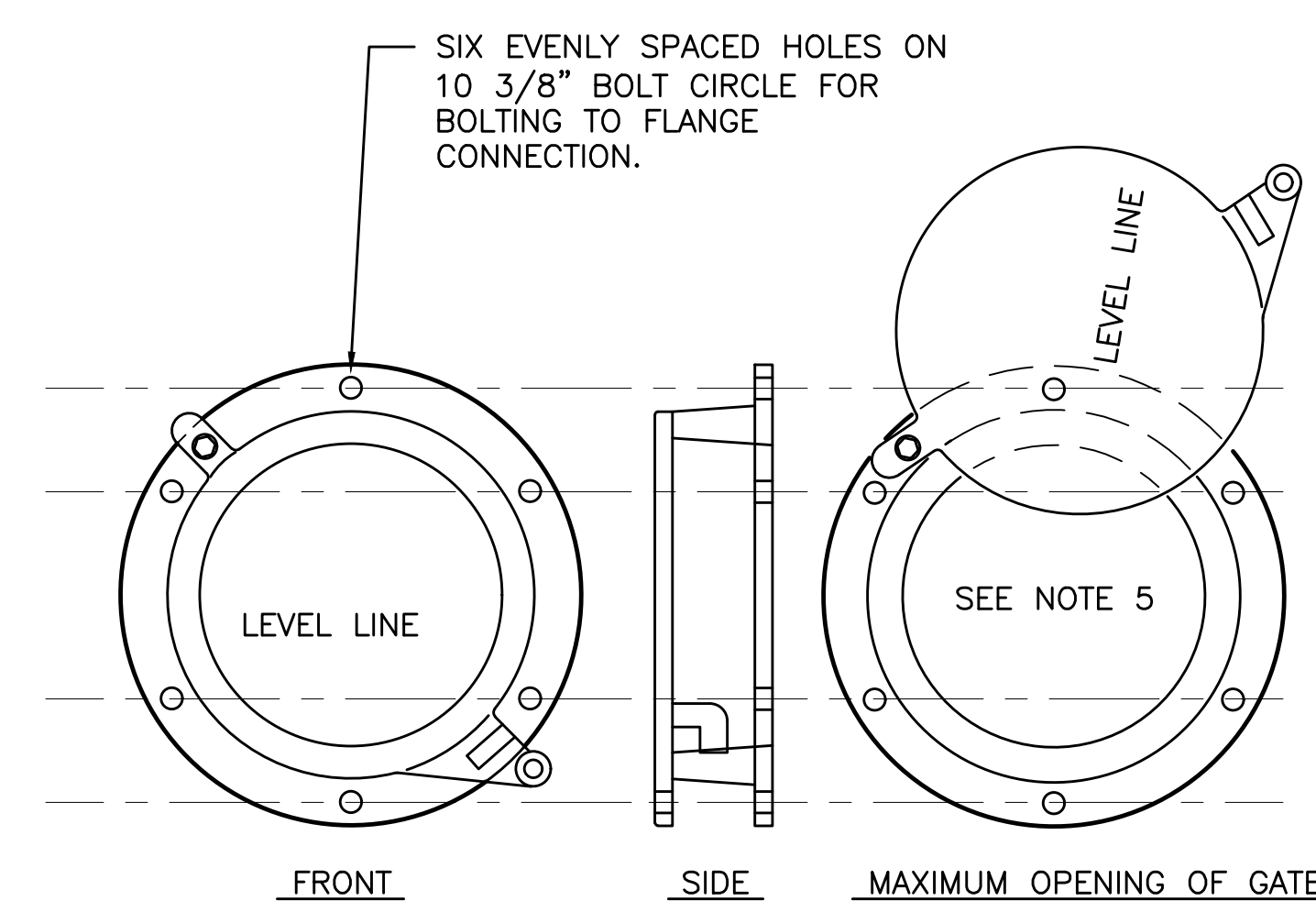
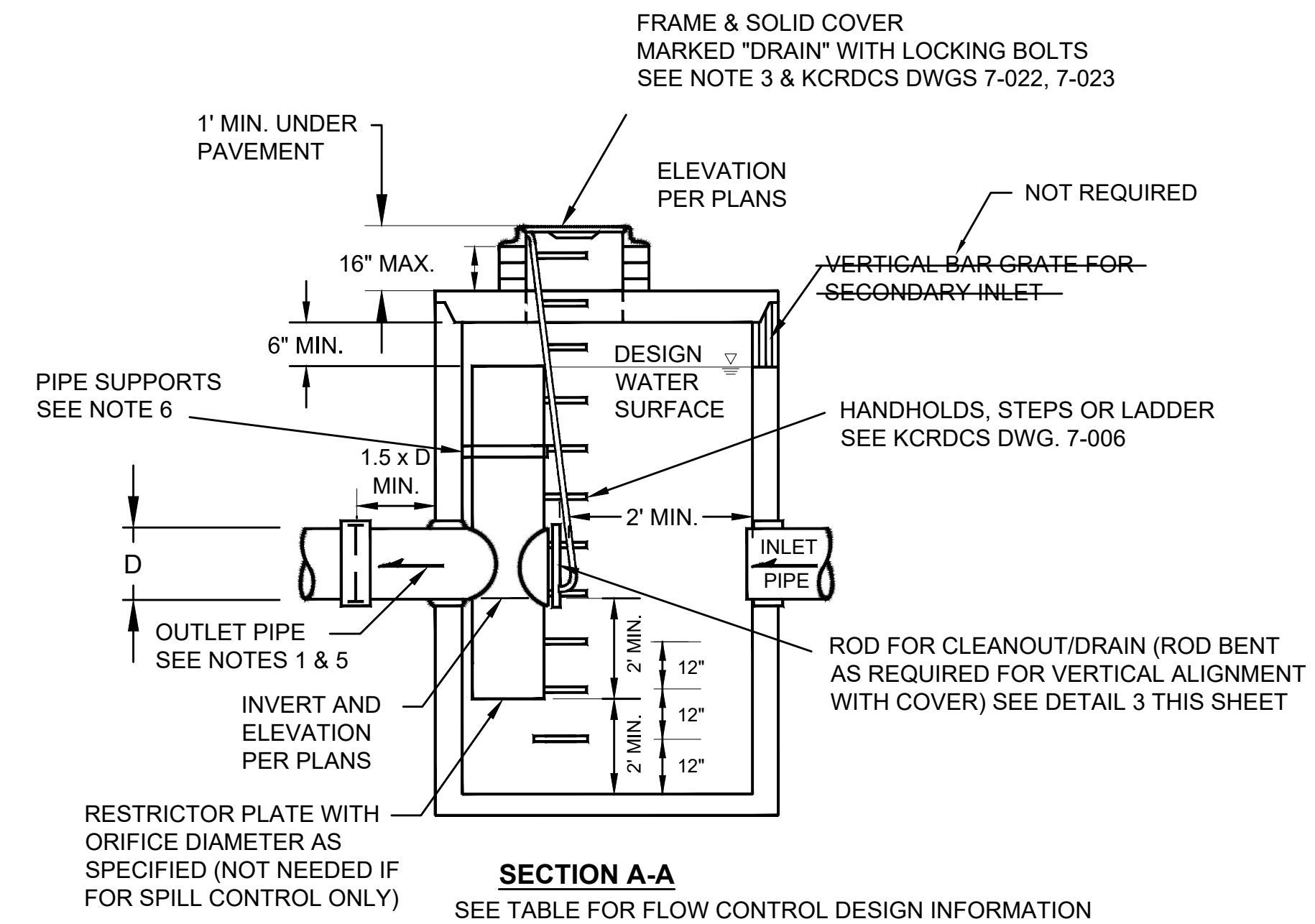
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



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FLOW CONTROL DESIGN SUMMARY	
DESIGN ELEMENT	DETENTION FACILITY
10-YEAR FLOW (CFS)	0.088
25-YEAR FLOW (CFS)	0.116
100-YEAR PEAK FLOW (CFS)	0.167
IE OUT (STAGE 0)	673.50
BOTTOM ORIFICE DIA (IN)	0.60
BOTTOM ORIFICE/ RISER ELEV	673.50
MIDDLE SLOT ORIFICE WIDTH (IN)	0.25
MIDDLE ORIFICE ELEV	680.20 TO TOP OF RISER
TOP ORIFICE DIA	N/A
TOP ORIFICE ELEV	N/A
TOP RISER/ OVERFLOW ELEV	681.00



NOTES:

- USE ADJUSTING BLOCKS AS REQUIRED TO BRING FRAME TO GUIDE.
- ALL MATERIALS TO BE ALUMINUM OR GALVANIZED AND ASPHALT COATED (TREATMENT 1 OR BETTER), OR STAINLESS STEEL OR ALUMINIZED STEEL.
- MUST BE LOCATED FOR ACCESS BY MAINTENANCE VEHICLES.
- MAY SUBSTITUTE WSDOT SPECIAL TYPE IV MANHOLE (RCP ONLY).
- MINIMUM OF 2 ACCESS POINTS REQUIRED IN DRAINAGE TANK.

NOTES:

- USE A MINIMUM OF A 60" DIAMETER TYPE 2 CATCH BASIN.
- OUTLET CAPACITY: 100-YEAR DEVELOPED PEAK FLOW.
- METAL PARTS: CORROSION RESISTANT. STAINLESS STEEL OR ALUMINIZED STEEL.
- FRAME AND LADDER OR STEPS OFFSET SO:
 - CLEANOUT GATE IS VISIBLE FROM TOP.
 - CLIMB-DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE.
 - FRAME IS CLEAR OF CURB.
- IF METAL OUTLET PIPE CONNECTS TO CEMENT CONCRETE PIPE: OUTLET PIPE TO HAVE SMOOTH O.D. EQUAL TO CONCRETE PIPE I.D. LESS 1/4".
- PROVIDE AT LEAST ONE 3" X .090 GAGE SUPPORT BRACKET ANCHORED TO CONCRETE WALL. (MAXIMUM 3'-0" VERTICAL SPACING)
- LOCATE ELBOW RESTRICTOR(S) AS NECESSARY TO PROVIDE MINIMUM CLEARANCE AS SHOWN.
- LOCATE ADDITIONAL LADDER RUNGS IN STRUCTURES USED AS ACCESS TO TANKS AND VAULT TO ALLOW ACCESS WHEN CATCH BASIN IS FILLED WITH WATER.
- TEE SHALL BE CONSTRUCTED OF ALUMINUM CMP OR ALUMINIZED STEEL CMP MEETING WSDOT/APWA STANDARDS.

NOTES:

- SHEAR GATE SHALL BE ALUMINUM ALLOY PER ASTM B-26-ZG-32a OR CAST IRON ASTM A48 CLASS 30B AS REQUIRED.
- GATE SHALL BE 8 IN. DIAM. UNLESS OTHERWISE SPECIFIED.
- GATE SHALL BE JOINED TO TEE SECTION BY BOLTING (THROUGH FLANGE), WELDING, OR OTHER SECURE MEANS.
- LIFT ROD: AS SPECIFIED BY MFR. WITH HANDLE EXTENDING TO WITHIN ONE FOOT OF COVER AND ADJUSTABLE HOOK LOCK FASTENED TO FRAME OR UPPER HANDHOLD.
- GATE SHALL NOT OPEN BEYOND THE CLEAR OPENING BY LIMITED HINGE MOVEMENT, STOP TAB, OR SOME OTHER DEVICE.
- NEOPRENE RUBBER GASKET REQUIRED BETWEEN RISER MOUNTING FLANGE AND GATE FLANGE.
- MATING SURFACES OF LID AND BODY TO BE MACHINED FOR PROPER FIT.
- FLANGE MOUNTING BOLTS SHALL BE 3/8 IN. DIAM. STAINLESS STEEL.
- ALTERNATE CLEANOUT/SHEAR GATES TO THE DESIGN SHOWN ARE ACCEPTABLE, PROVIDED THEY MEET THE MATERIAL SPECIFICATIONS ABOVE AND HAVE A SIX BOLT, 10 3/8 IN. BOLT CIRCLE FOR BOLTING TO THE FLANGE CONNECTION.
- SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

1 DETENTION TANK ACCESS (NTS) REFERENCE: KC SWDM DETAIL 5.1.2.B

2 FLOW RESTRICTOR TEE (NTS) REFERENCE: KC SWDM DETAIL 5.1.4.A

3 TEE SECTION SHEAR GATE (NTS) REFERENCE: KC ROADS STD. FIG. 7-026



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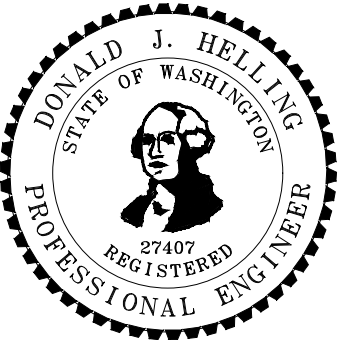
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Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



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PROJECT NO. 15095305
SITE NO.
FILE
CONTRACT NO. E00115E08 - AM. 20
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SHEET TITLE

DRAINAGE, DETENTION SYSTEM DETAILS

CG-410

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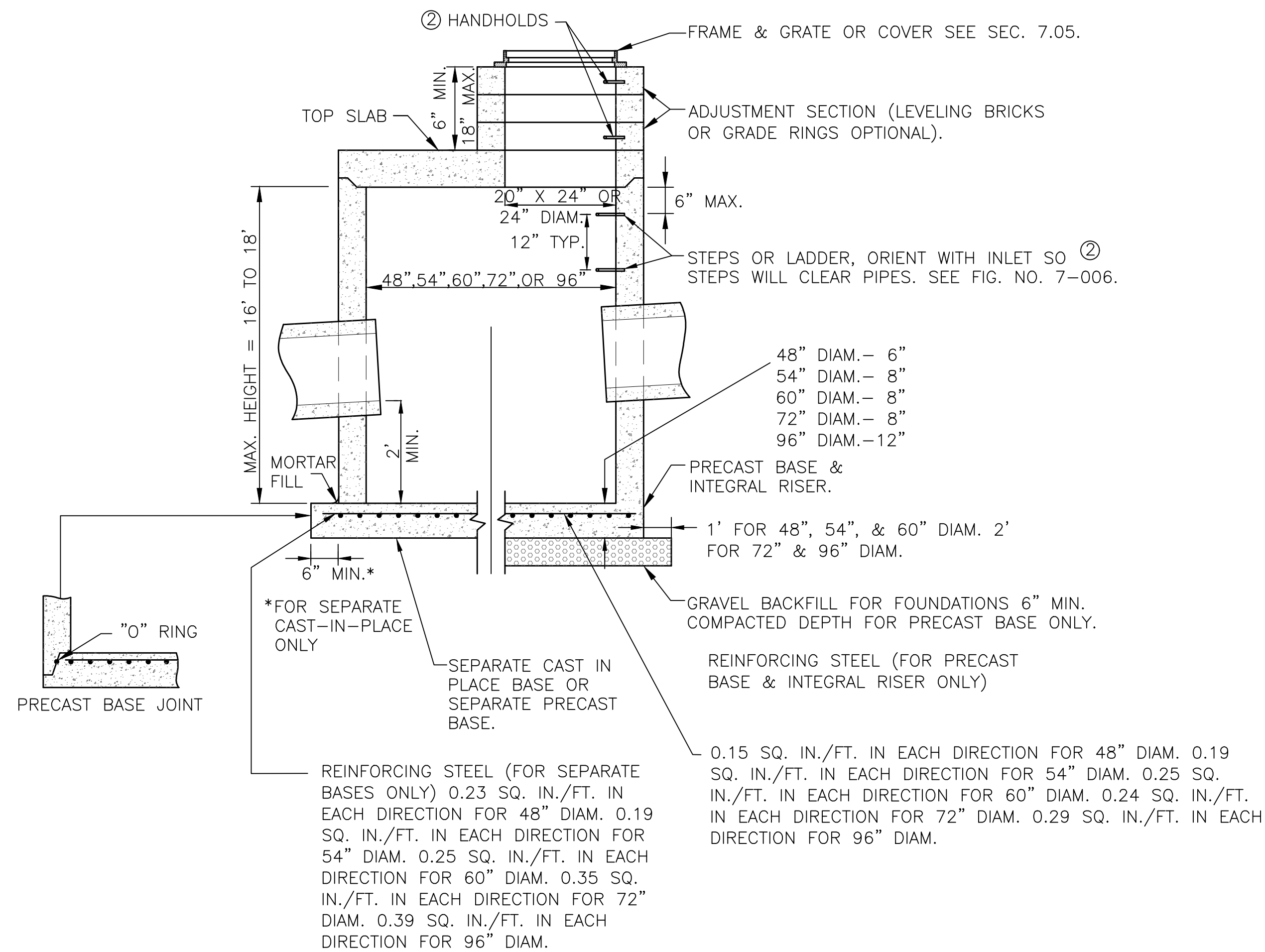


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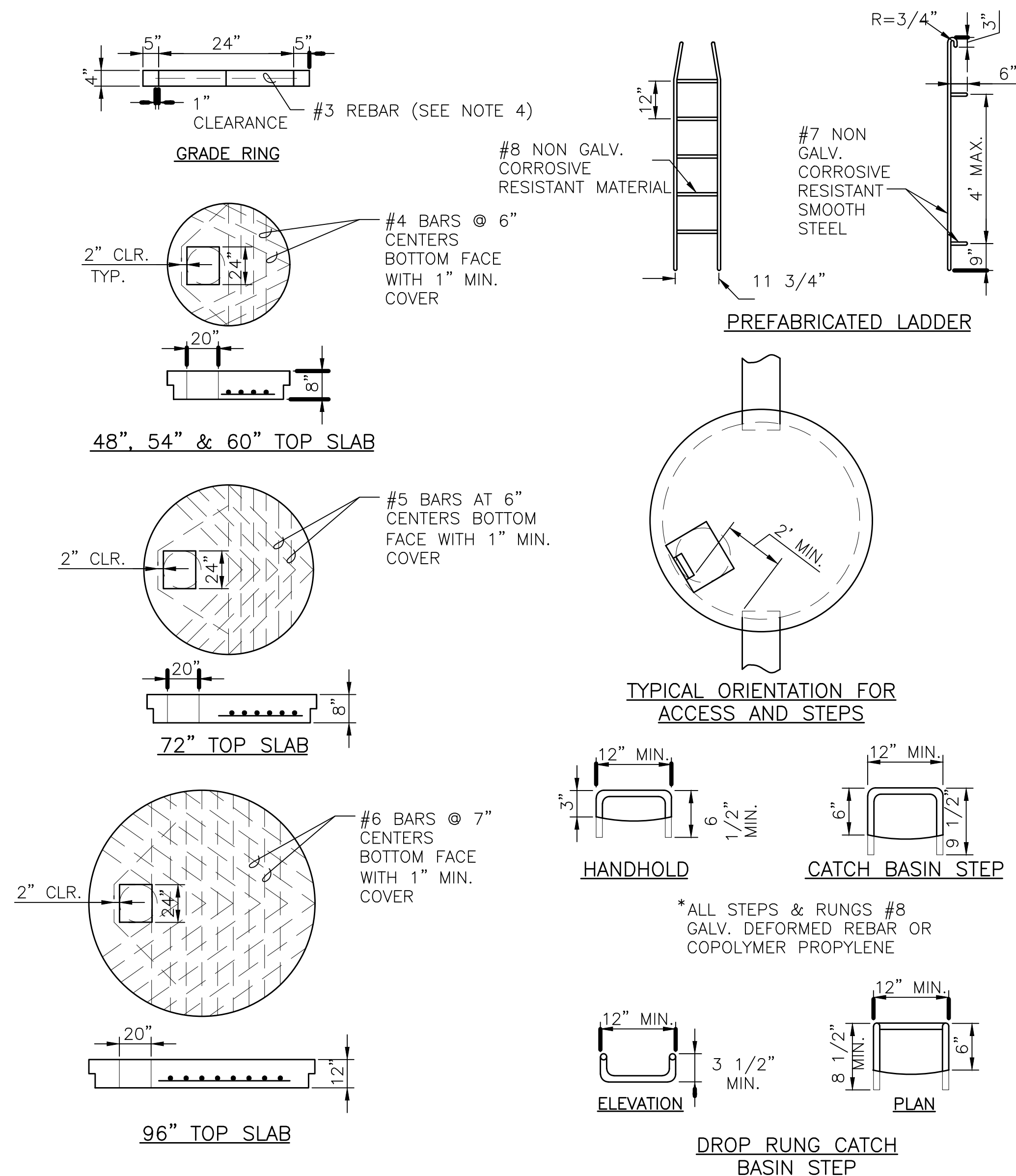
1 TYPE 2 CATCH BASIN
CG-411 (NTS)

REFERENCE: KC ROADS STD. FIG. 7-005



NOTES:

- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M199 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
- HANDHOLDS IN ADJUSTMENT SECTION SHALL HAVE 3" MIN. CLEARANCE. STEPS IN CATCH BASIN SHALL HAVE 6" MIN. CLEARANCE. SEE FIG. NO. 7-006, CATCH BASIN DETAILS. HANDHOLDS SHALL BE PLACED IN ALTERNATING GRADE RINGS OR LEVELING BRICK COURSE WITH A MIN. OF ONE HANDHOLD BETWEEN THE LAST STEP AND TOP OF THE MANHOLE.
- ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000. ALL PRECAST CONCRETE SHALL BE CLASS 4000.
- PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE WALL THICKNESS OF 2 IN. MIN. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT. PIPES SHALL BE INSTALLED ONLY IN FACTORY KNOCKOUTS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- KNOCKOUT OR CUTOUT HOLE SIZE SHALL EQUAL PIPE OUTER DIAM. PLUS CATCH BASIN WALL THICKNESS. MAX. HOLE SIZE SHALL BE 36 IN. FOR 48 IN. CATCH BASIN, 42 IN. FOR 54 IN. C.B., 48 IN. FOR 60 IN. C.B., 60 IN. FOR 72 IN. C.B., 84 IN. FOR 96 IN. C.B. MIN. DISTANCE BETWEEN HOLES SHALL BE 8 IN. FOR 48 IN., 54 IN., AND 60 IN. C.B.; 12 IN. FOR 72 IN. AND 96 IN. C.B.
- CATCH BASIN FRAMES AND GRATES OR COVERS SHALL BE IN ACCORDANCE WITH SEC. 7.05 AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-621E. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
- ALL BASE REINFORCING STEEL SHALL HAVE A MIN. YIELD STRENGTH OF 60,000 PSI AND BE PLACED IN THE UPPER HALF OF THE BASE WITH 1 IN. MIN. CLEARANCE.
- MIN. SOIL BEARING VALUE SHALL EQUAL 3,300 POUNDS PER SQUARE FOOT.
- FOR DETAILS SHOWING LADDER, STEPS, HANDRAILS AND TOP SLABS. SEE FIG. 7-006.
- SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SEC. 7-05.3 FOR JOINT REQUIREMENTS.
- SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS



NOTES:

- PROPRIETARY CATCH BASIN HANDHOLDS AND STEPS ARE ACCEPTABLE, PROVIDED THAT THEY CONFORM TO SEC. R, ASTM C478, AASHTO M-199 AND MEET ALL WISHA REQUIREMENTS.
- CATCH BASIN STEP/HANDHOLD LEGS SHALL BE PARALLEL OR APPROXIMATELY RADIAL AT THE OPTION OF THE MANUFACTURER, EXPECT THAT ALL STEPS IN ANY CATCH BASIN SHALL BE SIMILAR. PENETRATION OF OUTER WALL BY A LEG IS PROHIBITED.
- HANDHOLDS AND STEPS SHALL HAVE "DROP" RUNGS AS SHOWN ON DETAIL OR PROTUBERANCES TO PREVENT SIDEWAYS SLIP.
- SLAB OPENING MAY BE 24" x 20" OR 24" DIAM.
- AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.012 SQ. IN. PER FT. MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497.
- LADDERS OR STEPS SHALL EXTEND TO WITHIN 16 IN. OF BOTTOM OF CATCH BASIN.
- HANGING LADDERS SHALL BE PERMANENTLY FASTENED AT TOP BY HANGING ON STEP OR BY BOLTING OR EMBEDDING IN CONCRETE. EACH SHALL BE EMBEDDED AT BOTTOM IN BASE.
- ADDITIONAL SAFETY FEATURES MAY BE REQUIRED IN VERY DEEP OR UNUSUAL STRUCTURES.
- SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

2 CATCH BASIN DETAILS
CG-411 (NTS)

REFERENCE: KC ROADS STD. FIG. 7-006

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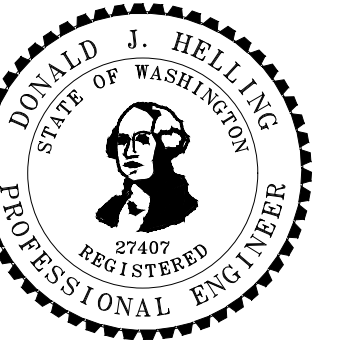
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Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

CG-411



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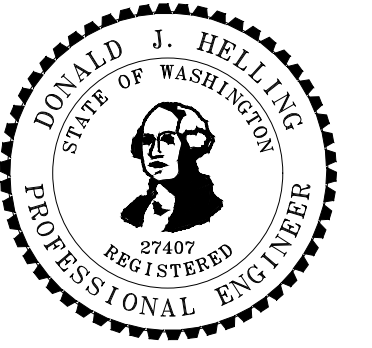
DRAINAGE,
TYPE 2 CATCH BASIN
DETAILS



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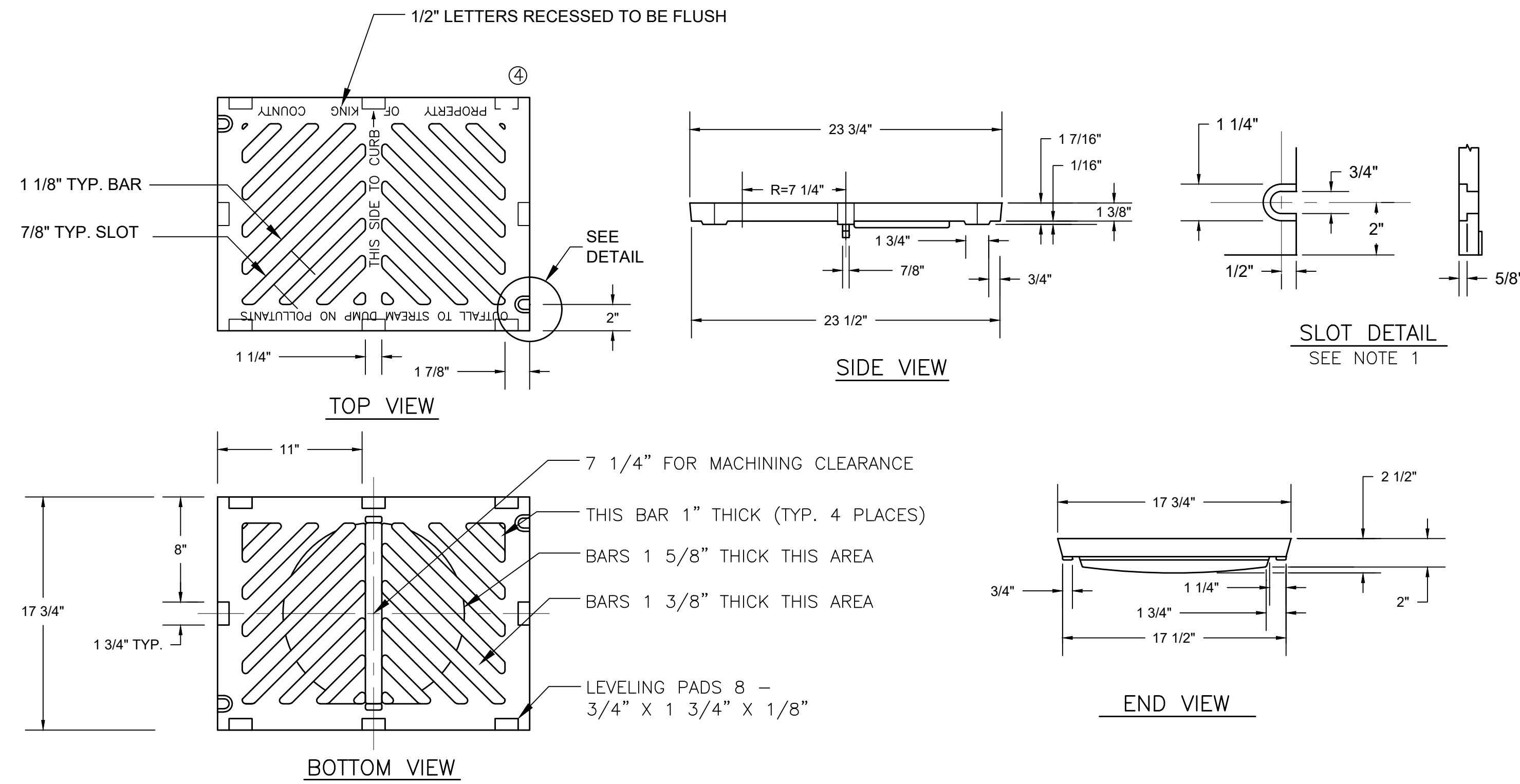
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CONTRACT NO. E00115E08 - AM. 20
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SHEET TITLE

DRAINAGE,
TYPE 1 CATCH BASIN
DETAILS & NOTES

CG-412

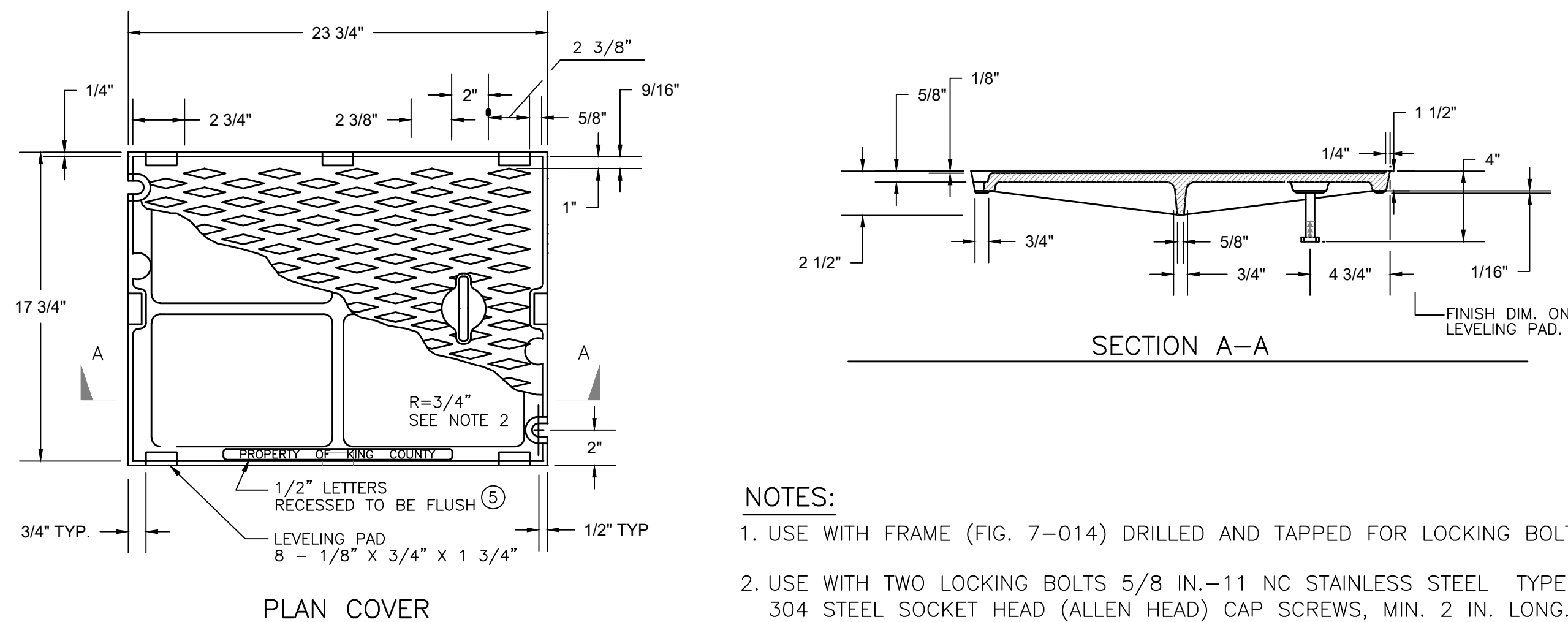


NOTES:

- SLOT FORMED AND RECESSED FOR 5/8 IN.-11 NC X 2 IN. SOCKET HEAD (ALLEN HEAD) CAP SCREW.
- GRATE SHALL BE CAST IRON PER ASTM A48 CLASS 30 UNLESS OTHERWISE SPECIFIED.
- SEE SEC. 7.05.
- THE WORDS "PROPERTY OF KING COUNTY" SHALL BE OMITTED IF GRATE IS ON PRIVATE SYSTEM.
- GRATES SHALL BE MIN 32 IN. CLEAR OF WHERE WHEELCHAIR RAMPS ARE FLUSH WITH PAVEMENT.
- SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

2 STANDARD GRATE (NTS)

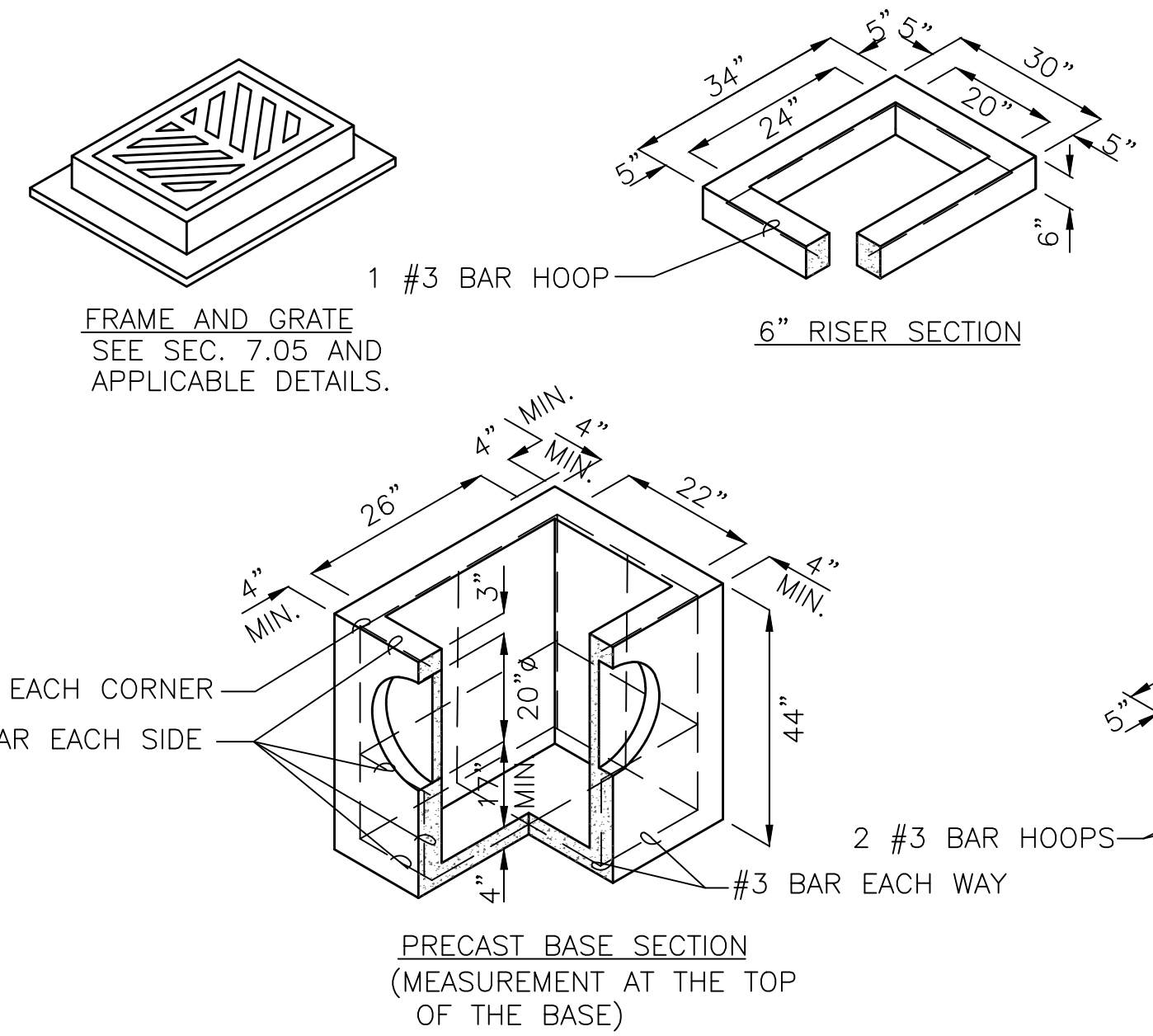
REFERENCE: KC ROADS STD. FIG. 7-013



NOTES:

- USE WITH FRAME (FIG. 7-014) DRILLED AND TAPPED FOR LOCKING BOLTS.
- USE WITH TWO LOCKING BOLTS 5/8 IN.-11 NC STAINLESS STEEL TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS, MIN. 2 IN. LONG.
- MATERIAL IS CAST IRON PER ASTM A48 CLASS 30.
- SEE SEC. 7.05.
- THE WORDS "PROPERTY OF KING COUNTY" SHALL BE OMITTED IF COVER IS ON A PRIVATE SYSTEM.

REFERENCE: KC ROADS STD. FIG. 7-015

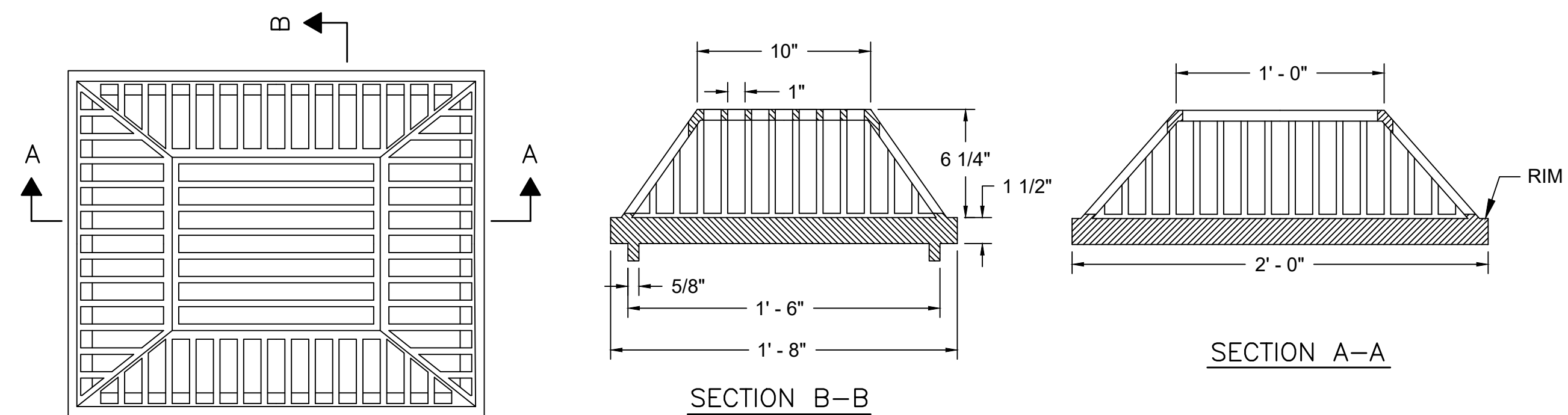


NOTES:

- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
- AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.12 SQ. IN. PER FT. MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
- ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000
- PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2 IN. MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
- KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAM. PLUS CATCH BASIN WALL THICKNESS.
- ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAX. DIAM. OF 20 IN. KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
- THE MAX. DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5 FT.
- THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2" PER FT.
- CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-62IE. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
- FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.
- FOR CATCH BASINS IN PARKING LOTS REFER TO WSDOT/APWA STANDARD DWG. B-5.60-01.
- EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2 IN. FROM VERTICAL EDGE OF CATCH BASIN WALL.
- SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

1 TYPE 1 CATCH BASIN (NTS)

REFERENCE: KC ROADS STD. FIG. 7-003



NOTES:

- GRATE MATERIAL : DUCTILE IRON
- FRAME PER CITY OF SEATTLE STD PLAN NO 264 OR EQUIVALENT.

3 BEEHIVE GRATE (NTS)

REFERENCE: CITY OF SEATTLE STD. PLAN 269



4 SOLID COVER (NTS)

REFERENCE: KC ROADS STD. FIG. 7-015

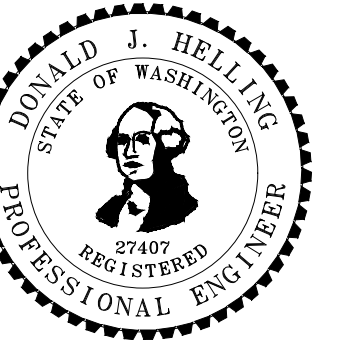
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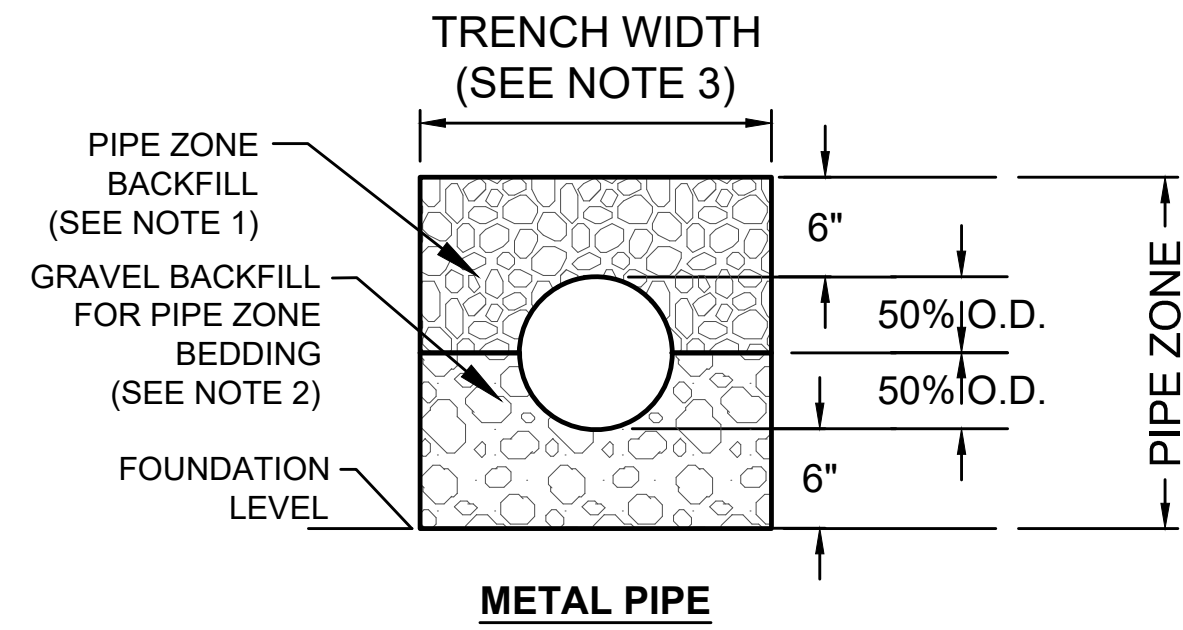
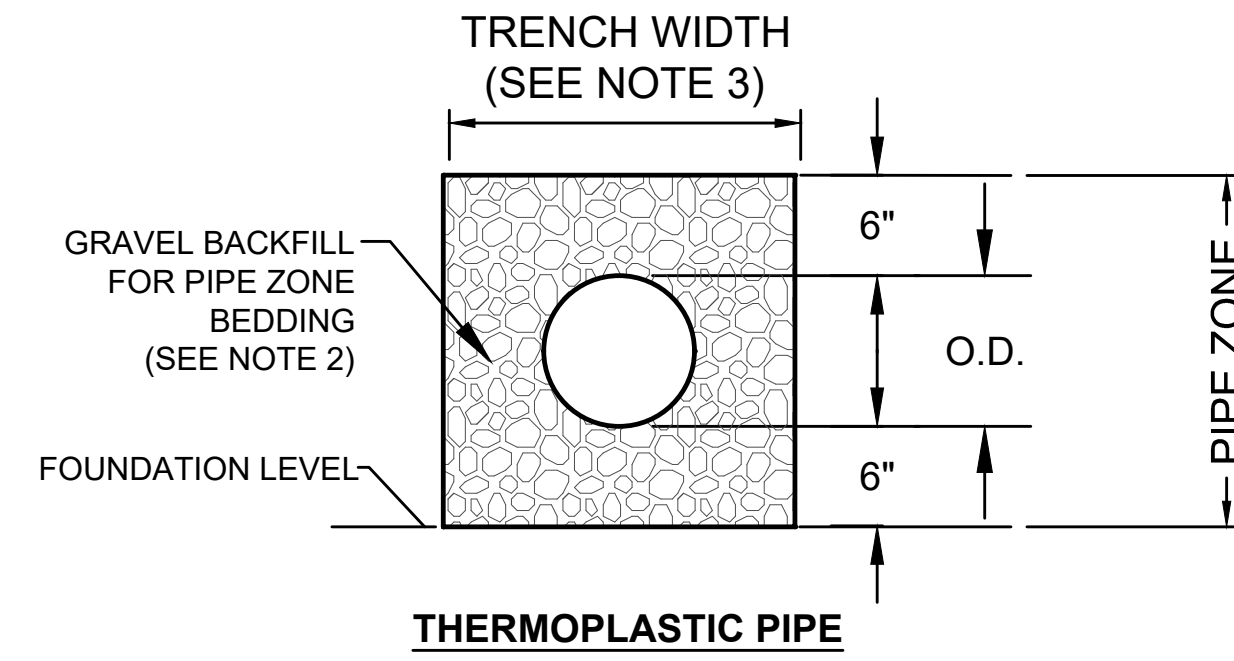
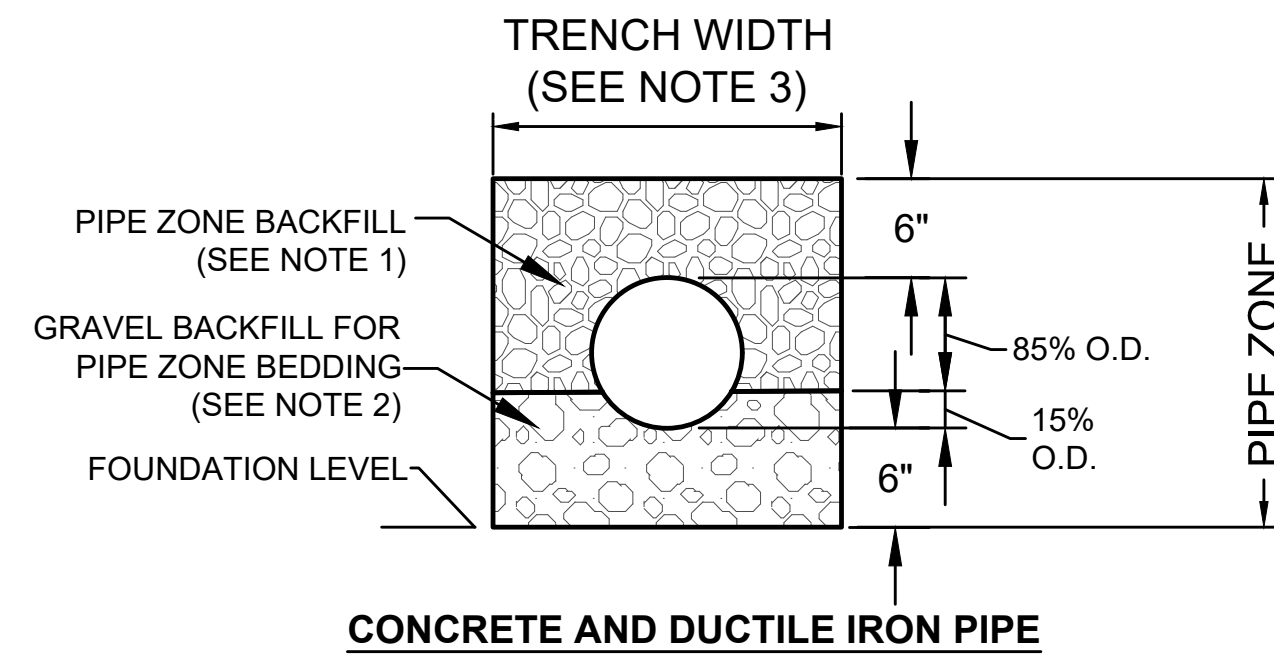
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DRAINAGE,
PIPE DETAILS

CG-413

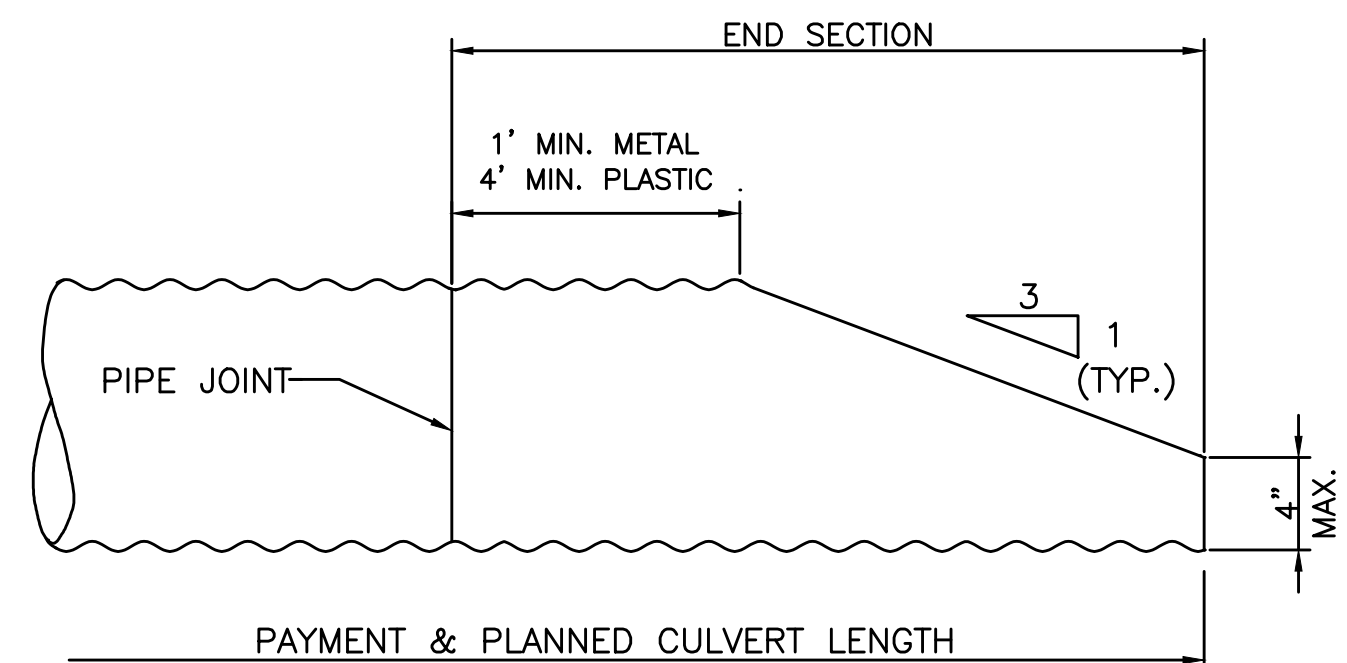
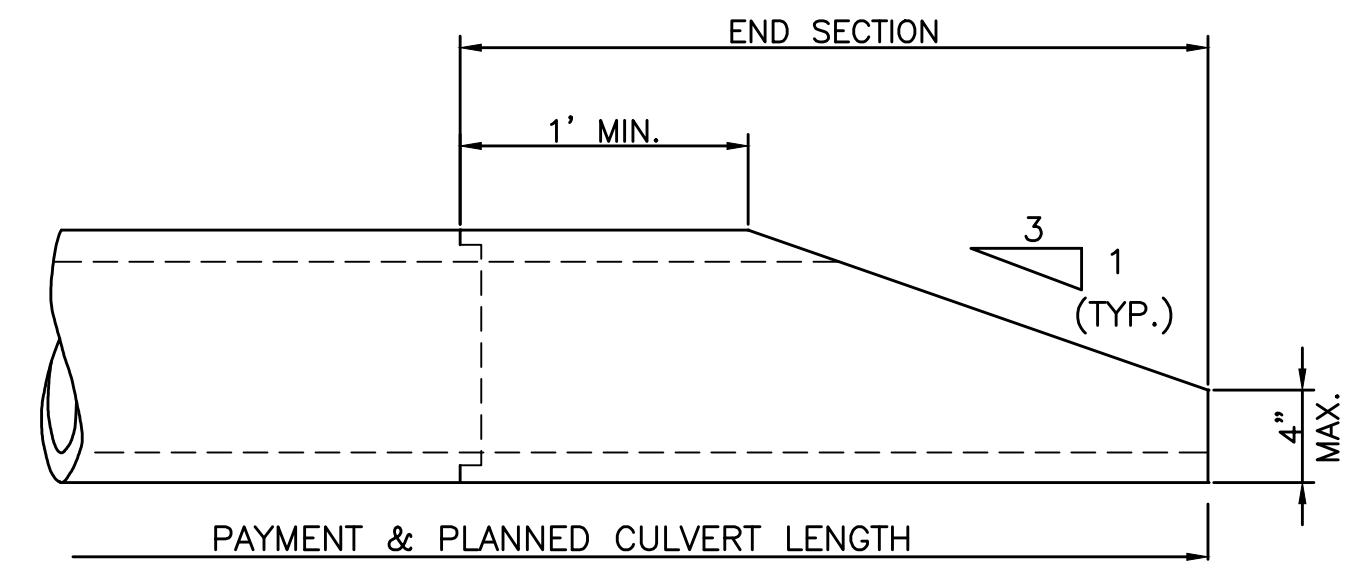
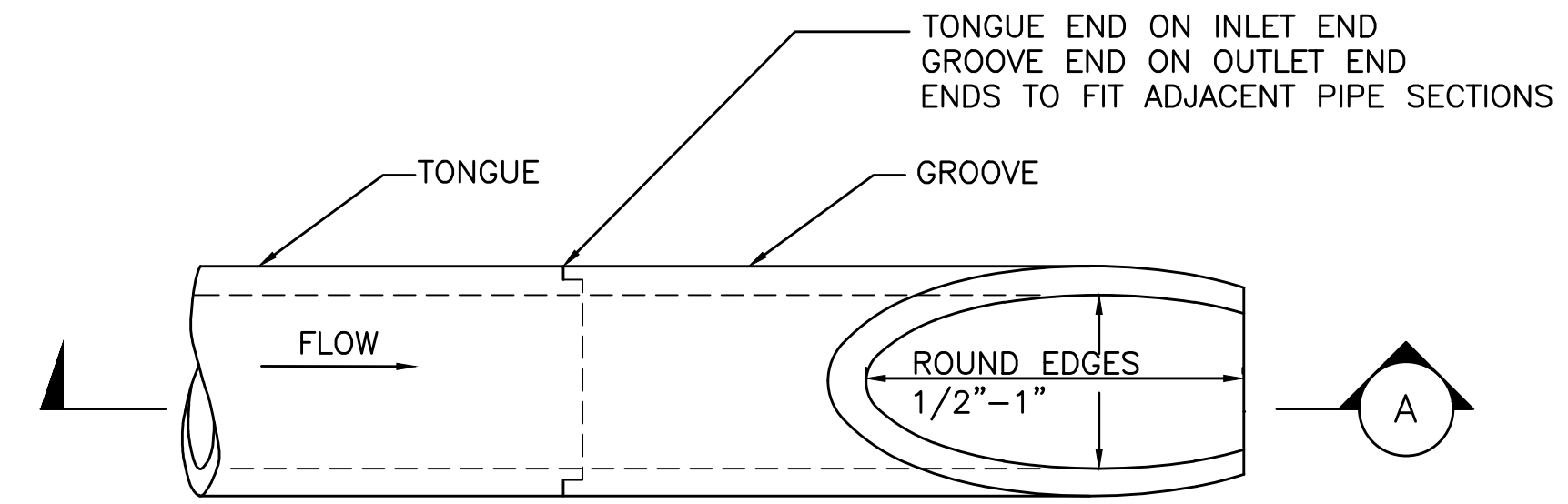


NOTES:

- SEE CURRENT WSDOT STANDARD SPECIFICATIONS SECTION 7-08.3(3) FOR PIPE ZONE BACKFILL.
- SEE CURRENT WSDOT STANDARD SPECIFICATIONS SECTION 9-03.12(3) FOR GRAVEL BACKFILL FOR PIPE ZONE BEDDING.
- SEE CURRENT WSDOT STANDARD SPECIFICATIONS SECTION 2-09.4 FOR MEASUREMENT OF TRENCH WIDTH.
- SEE KCSWDM 4.2.1.1 FOR CLEARANCE BETWEEN PIPES AND OTHER UTILITIES.

1 STORM DRAIN PIPE BEDDING AND BACKFILL
CG-413 (NTS)

REFERENCE: KC SWDM DETAIL 4.2.1.A



NOTES:

- SIDE SLOPE SHALL BE GRADED TO MATCH THE BEVELED PIPE END.
- PIPE SHALL BE BEVELED TO MATCH SLOPE IF SLOPE DIFFERS FROM 3:1.
- PIPE SHALL BE ROTATED TO CONFORM TO SLOPE WHEN ON SKEW.

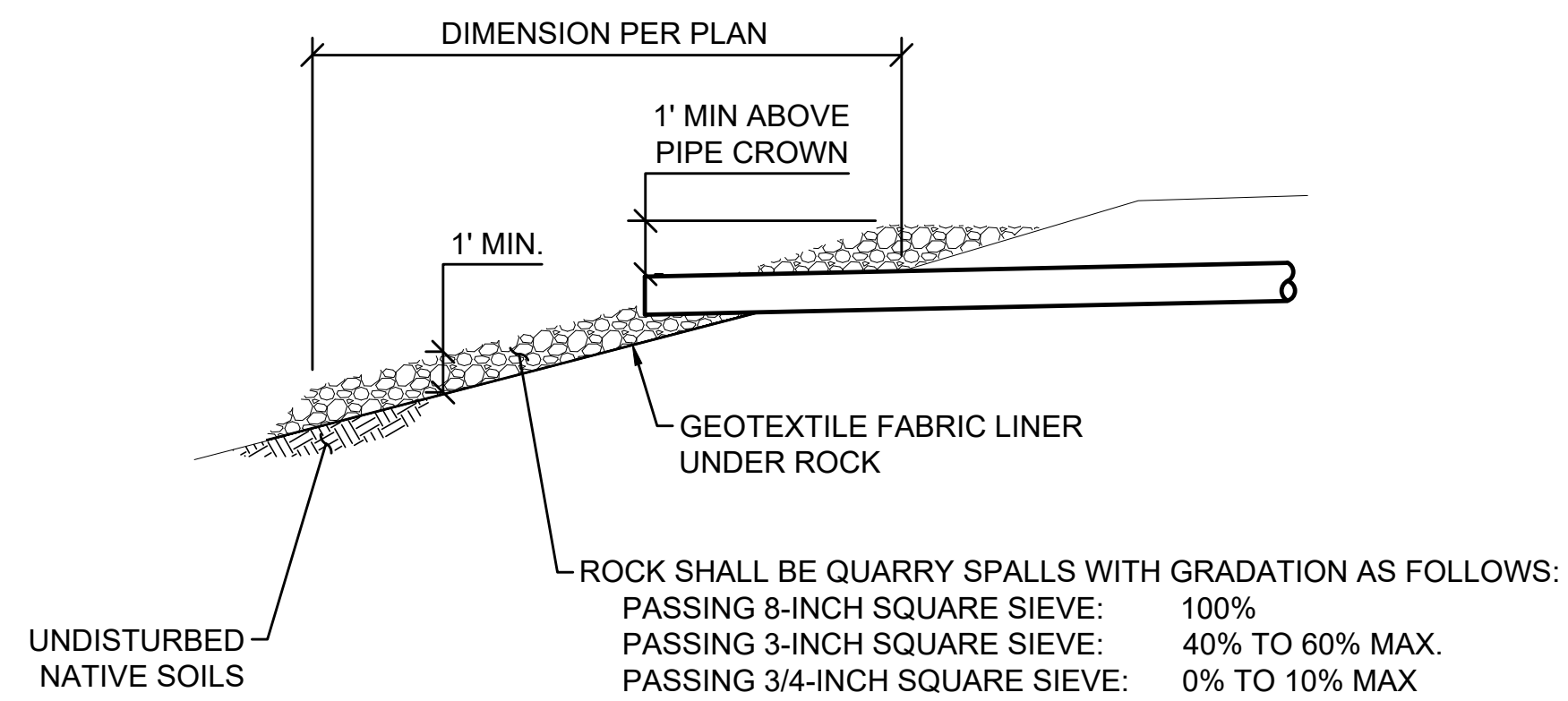
2 BEVELED END PIPE SECTION
CG-413 (NTS)

REFERENCE: KC ROADS STD. FIG. 7-001

GRDE XX-XXXX

KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



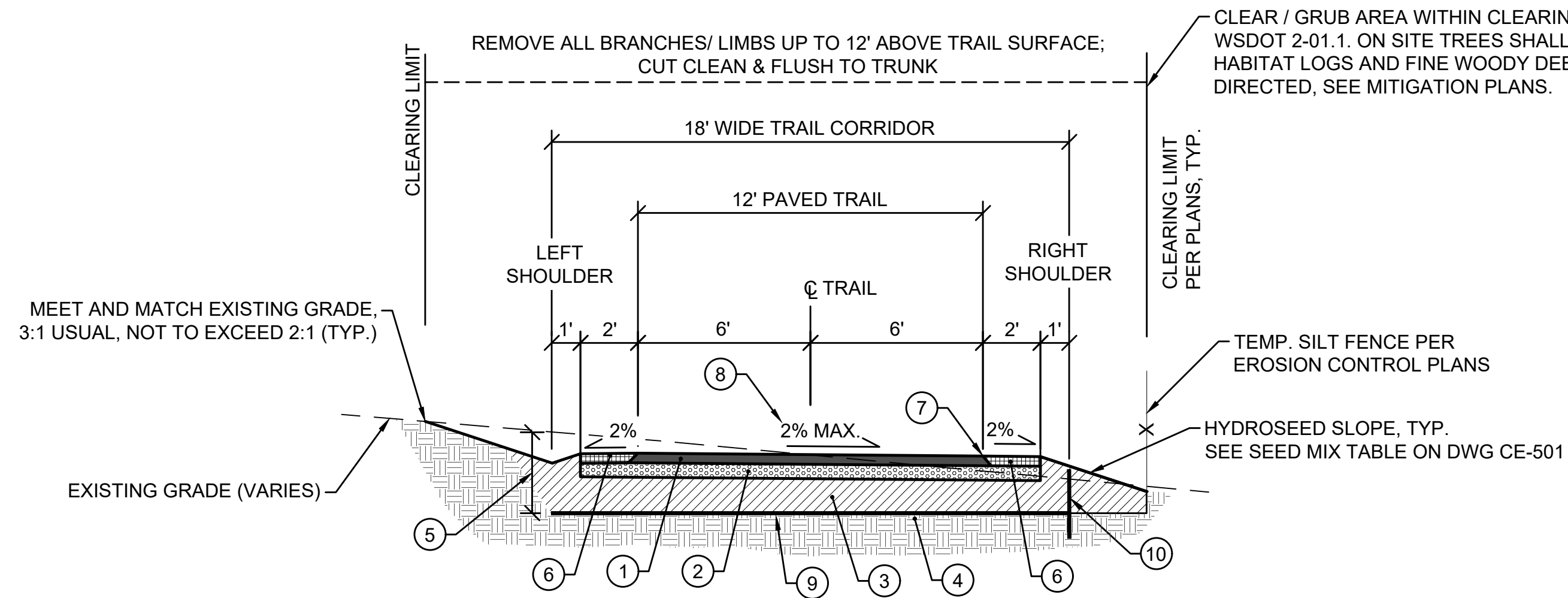
REFERENCE: KC SWDM TABLE 4.2.2.A

(NTS)



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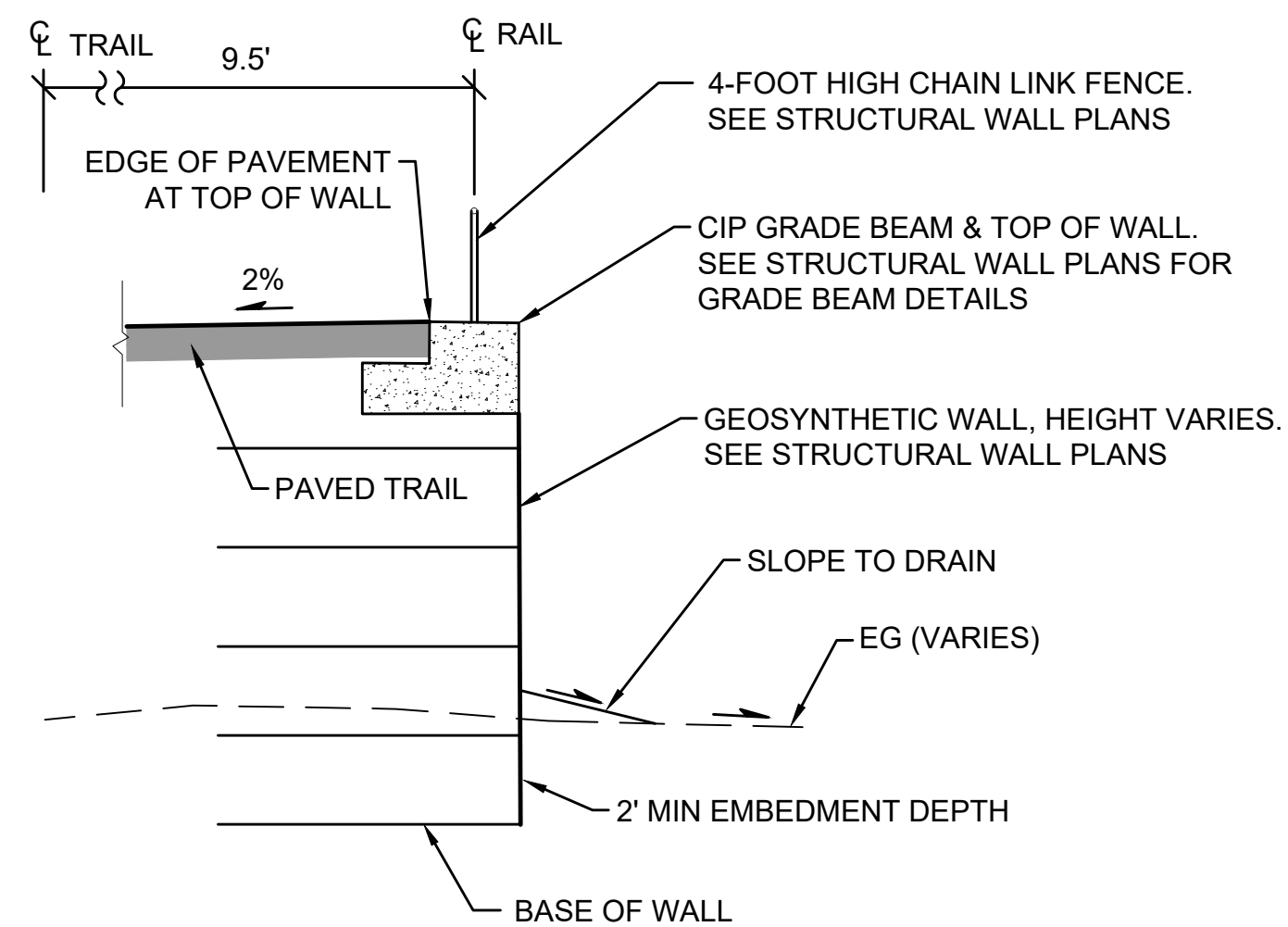


1 PAVED TRAIL SECTION
CG501 (NTS)

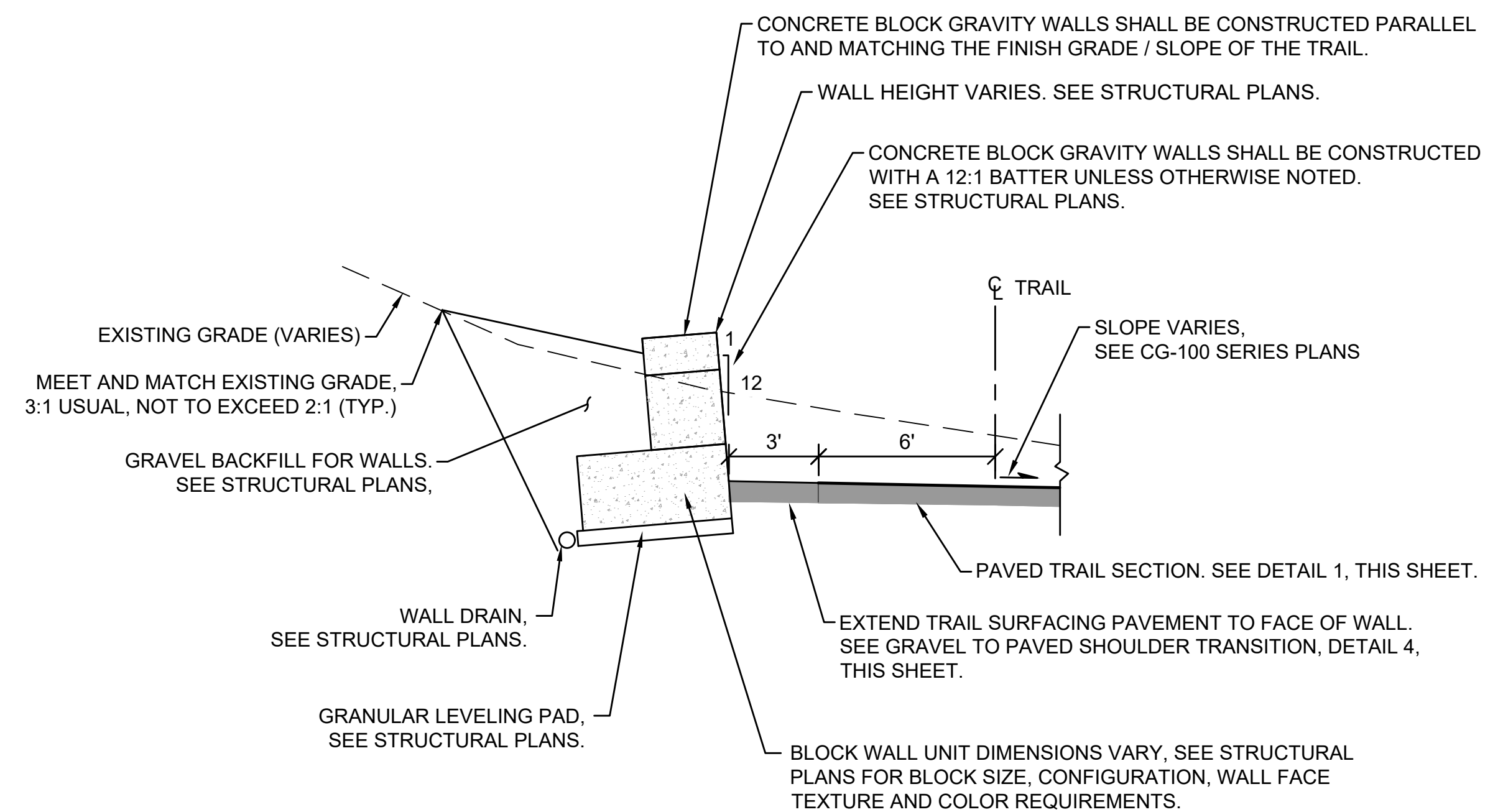
PAVED TRAIL AND ACCESS SECTION NOTES:

- 1 SURFACING - 4" COMPACTED DEPTH HMA CLASS 3/8" PG. 64-22 (SEE NOTE A BELOW)
- 2 SUBGRADE - 6" COMPACTED DEPTH CRUSHED SURFACING BASE COURSE (SEE NOTE A BELOW)
- 3 STRUCTURAL FILL - GRAVEL BORROW PER WSDOT 9-03.14(1), COMPACTED TO 95% MODIFIED PROCTOR. DEPTH VARIES (IF REQUIRED) PENDING SUBGRADE CONDITIONS, 12" DEPTH SHOWN AS REFERENCE ONLY.
- 4 SUBGRADE PREPARATION FOR SURFACING PER WSDOT 2-06.3(1)
- 5 STRIP EXISTING SOIL TO DEPTH REQUIRED TO REACH SUITABLE SUBGRADE FOR TRAIL IMPROVEMENTS. PLACE EXCAVATIONS WITHIN NATIVE SOIL ON-SITE FILL AREAS AS SHOWN ON THE PLANS. ENCOUNTERED SOILS SUITABLE FOR REUSE AS STRUCTURAL FILL REQUIRE ON-SITE GEOTECHNICAL REVIEW AND APPROVAL FOR SUITABILITY. DISPOSE OF ALL REMAINING EXCAVATIONS AT AN APPROVED CONTRACTOR-OBTAINED LOCATION.
- 6 GRAVEL SHOULDER - 4" COMPACTED DEPTH 5/8" MINUS CRUSHED LEDGE ROCK, 100% FRACTURED (SEE NOTE A BELOW)
- 7 45° TAMP EDGE FLUSH WITH SHOULDER (TYP.)
- 8 2% MAX. CROSS SLOPE. DIRECTION AND PERCENT OF SLOPE VARIES BASED ON DRAINAGE REQUIREMENTS. SEE THE GRADING PLANS FOR SPECIFIED CROSS SLOPES.
- 9 SUBGRADE IMPROVEMENT WHEN UNSUITABLE AREAS ARE ENCOUNTERED. PROVIDE WOVEN TYPE GEOTEXTILE FABRIC PER WSDOT 9-33.2(1) FOR SOIL SUBGRADE STABILIZATION, AS DIRECTED BY OWNER'S PROJECT REPRESENTATIVE.
- 10 ROOT BARRIER INSTALLED PER MANUFACTURER'S RECOMMENDATIONS WHERE SHOWN ON THE PLANS.

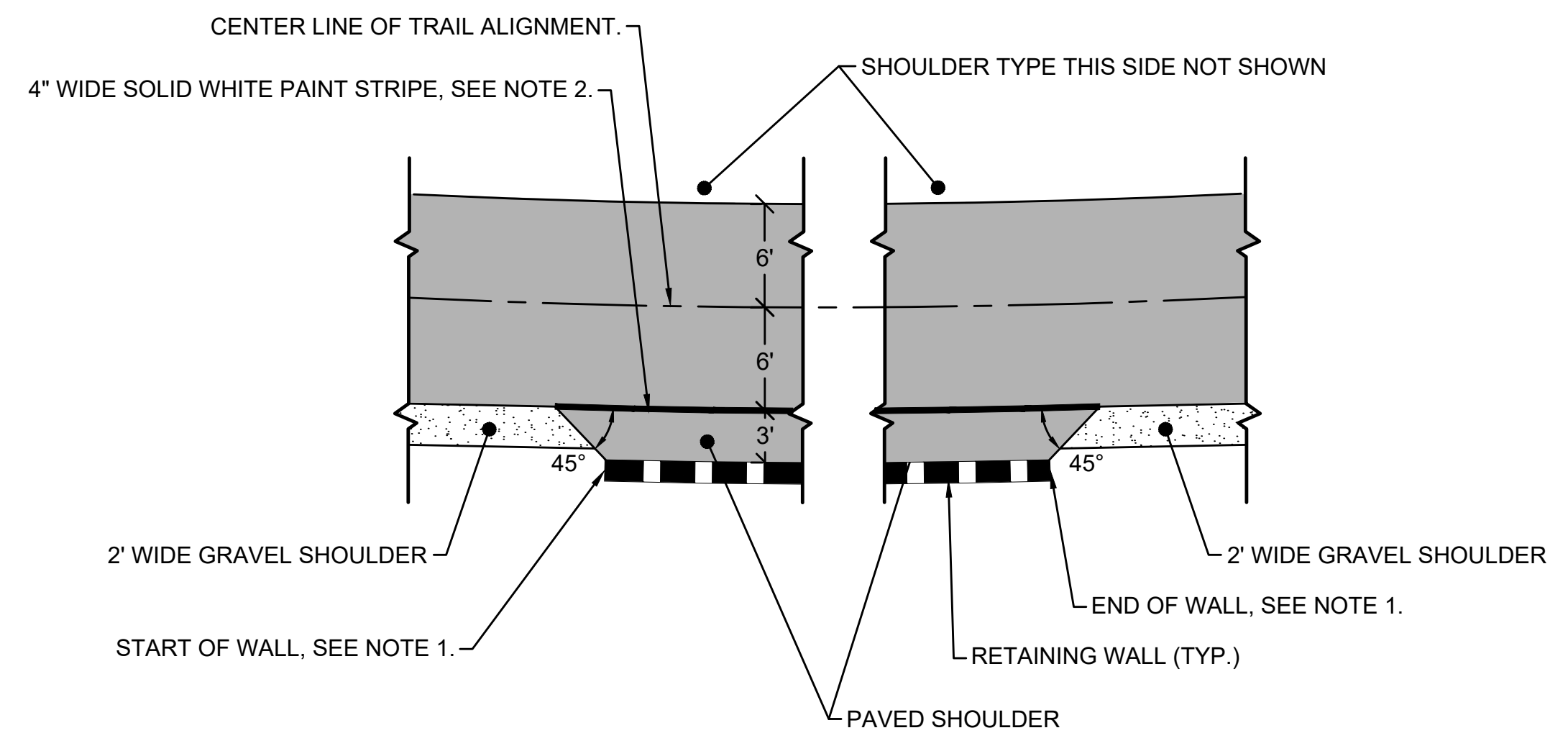
NOTE A: PAVEMENT SECTION REFERENCE PER KING COUNTY PARKS TYPICAL REGIONAL TRAIL SECTION DRAWING # 1-001



3 MSE FILL WALL SECTION
CG-501 (NTS)



2 GRAVITY CUT WALL SECTION
CG-501 (NTS)



4 GRAVEL TO PAVED SHOULDER TRANSITION SECTION
CG501 (NTS)

1. SEE CG-200 SERIES DRAWING SHEETS FOR START AND END OF WALL LOCATIONS, STATION AND OFFSET LEFT OR RIGHT.
2. SEE CP-100 SERIES DRAWING SHEETS FOR START AND END OF TRAIL PAVEMENT MARKING LOCATIONS, STATION AND OFFSET LEFT OR RIGHT.

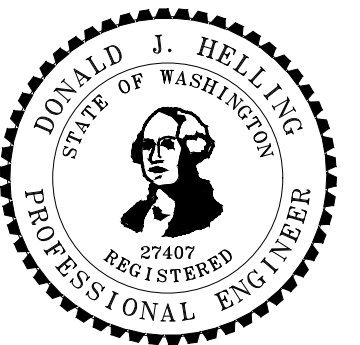
SHEET NOTES:

1. WALL INFORMATION ILLUSTRATED ON THE CIVIL PLAN SET SHOWN FOR REFERENCE ONLY. SEE STRUCTURAL WALL DRAWING SHEETS (S-100 SERIES) FOR WALL NOTES, SECTIONS AND DETAILS.
2. CENTER LINE OF TRAIL ALIGNMENT LOCATION AND PROFILE ELEVATIONS IS SHOWN ON THE CG-100 SERIES DRAWINGS.



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King Street Center, KSC-NR-0700
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Seattle, Washington, 98101-1479
Phone (206) 324-5500 Fax (206) 328-1880



FOOTHILLS TRAIL
PHASE II SEGMENT B
KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
CONTRACT # C---

ISSUE / REVISIONS	ID	DATE	DESCRIPTION
	Δ	2/13/2020	30% SUBMITTAL
	Δ	12/30/2020	65% SUBMITTAL
	Δ	5/24/2021	90% SUBMITTAL

PROJECT NO. 15095305
SITE NO.
FILE
CONTRACT NO. E00115E08 - AM. 20
DRAWN BY VUL CHECKED BY GRS
SHEET TITLE
TRAIL DETAILS

GRDE XX-XXXX	
KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

CG-501



Know what's below.
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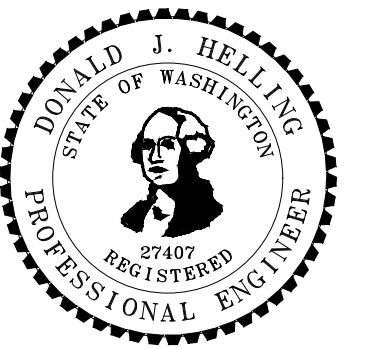
90% SUBMITTAL



King County

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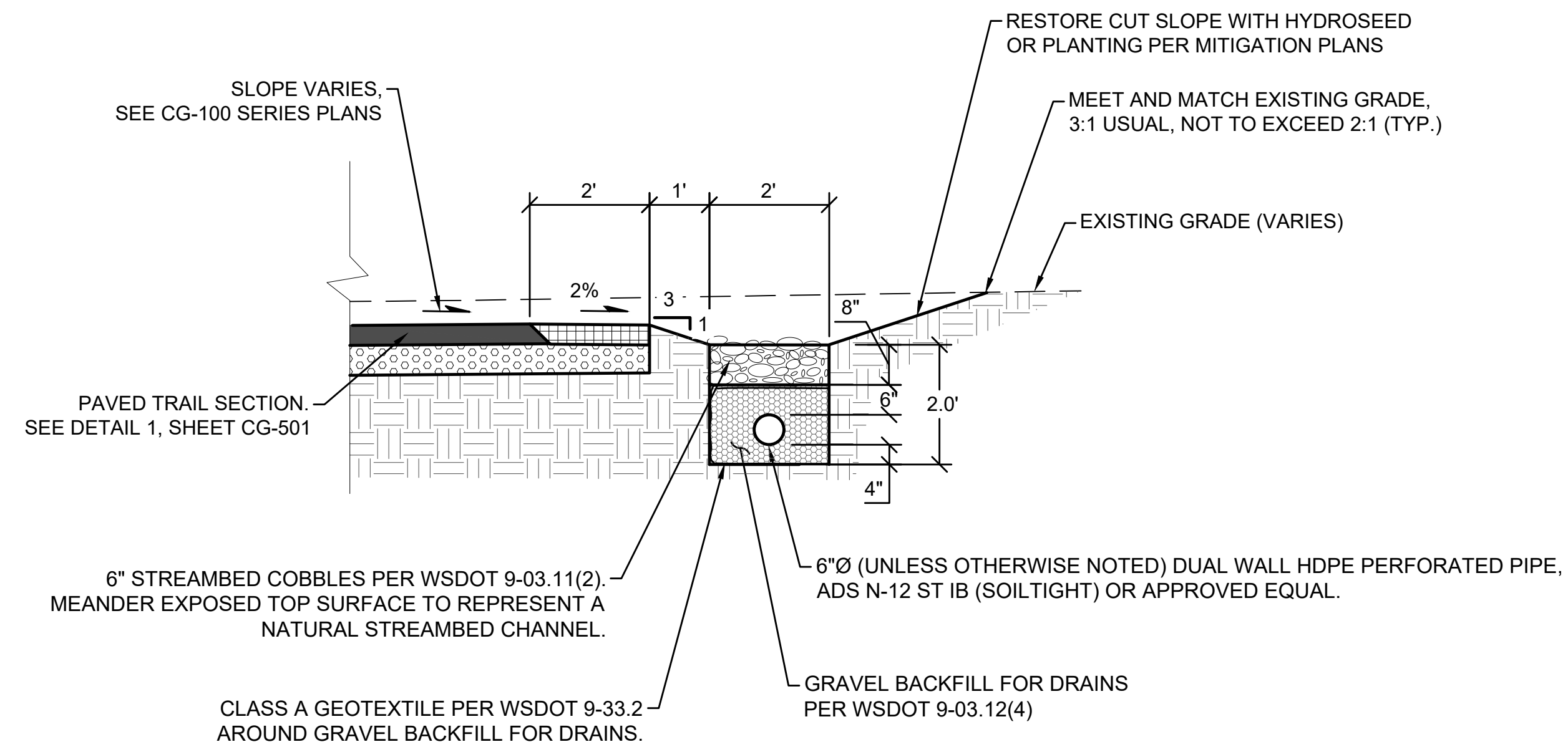
TRAIL
DETAILS

GRDE XX-XXXX

KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

CG-502

40 OF 52

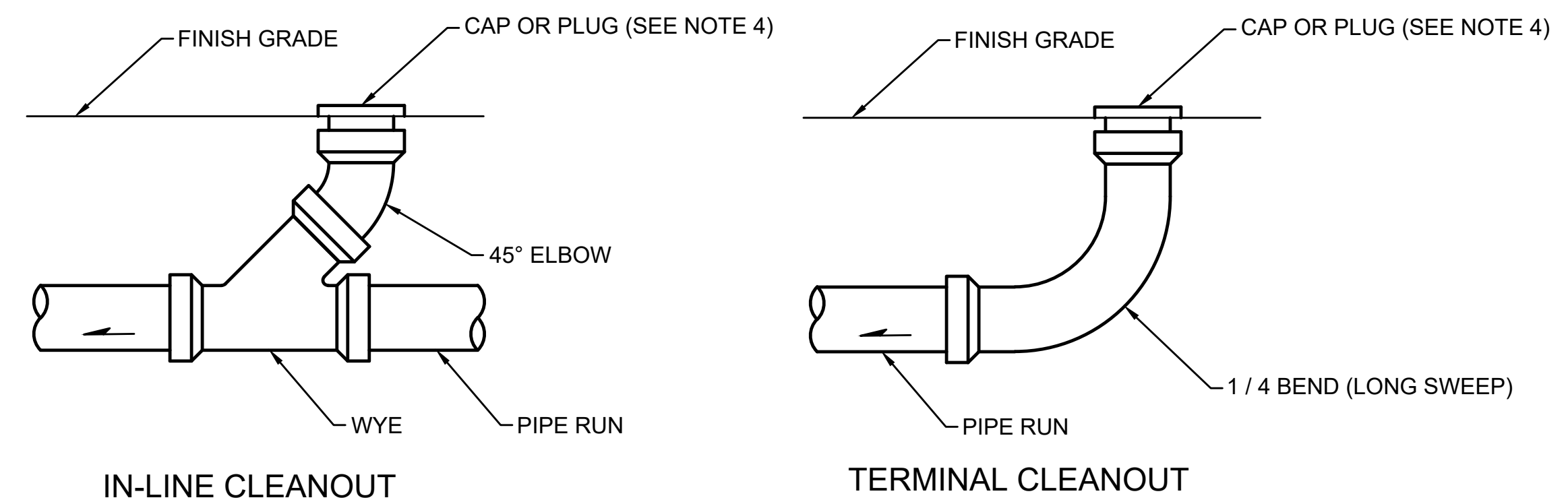


1 TRENCH DRAIN

CG-502

(NTS)

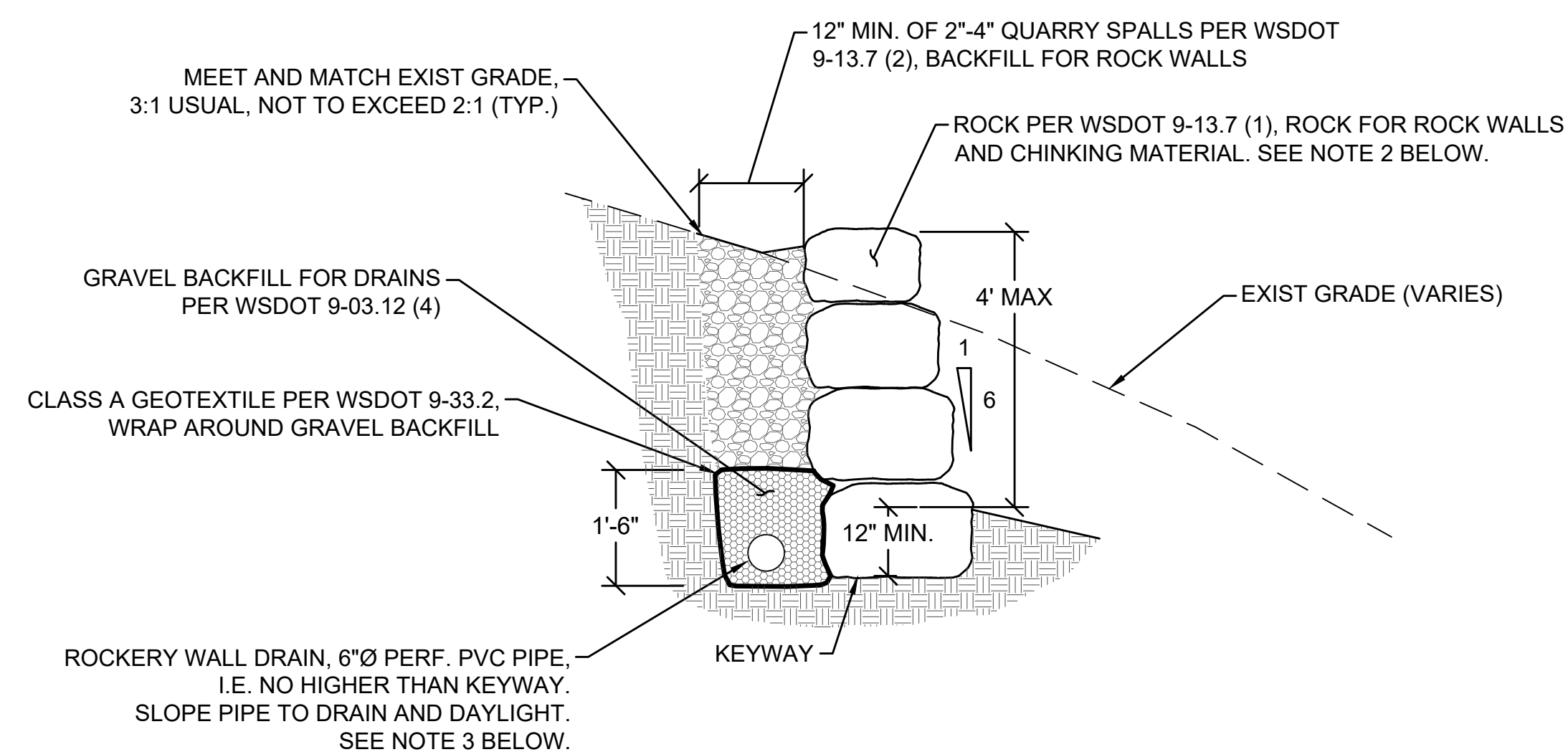
- SEE PLANS FOR STATION AND LOCATION OF TRENCH DRAINS, TRENCH DRAIN CLEANOUTS AND CONNECTIONS TO DRAINAGE STRUCTURES.
- SEE DETAIL 2, THIS SHEET, FOR TRENCH DRAIN CLEANOUT DETAIL.



2 TRENCH DRAIN CLEANOUT

CG-502

- INSTALL IN-LINE CLEANOUTS WHERE SHOWN ON THE CG-100 SERIES PLANS. (CONNECT WALL DRAINS AT THE END OF THE WALL AND LONGER TRENCH DRAIN SEGMENTS AT 100 FOOT MAXIMUM ON CENTER)
- INSTALL TERMINAL CLEANOUT AT THE START ON EACH TRENCH DRAIN RUN THAT DOES NOT CONNECT TO A CATCH BASIN DRAINAGE STRUCTURE.
- CONNECT THE DOWNSTREAM END OF ALL TRENCH DRAIN RUNS TO A CATCH BASIN DRAINAGE STRUCTURE.
- TOP OF CLEANOUT (C/O) TO BE SET NEAR TOP OF TRENCH DRAIN FINISH GRADE WITH STREAM BED COBBLES HAND PLACED OVER AND AROUND CAP / PLUG. INSTALL LATH ON OUTWARD SIDE OF C/O AS TEMPORARY LOCATION MARKER. FOLLOWING ASPHALT PAVEMENT TRAIL SURFACING, INSTALL PK WITH SHINER LOCATED 1 FOOT OFF EDGE OF PAVEMENT, PERPENDICULAR TO C/O AS A PERMANENT C/O LOCATION MARKER.



3 ROCKERY

CG-501

(NTS)

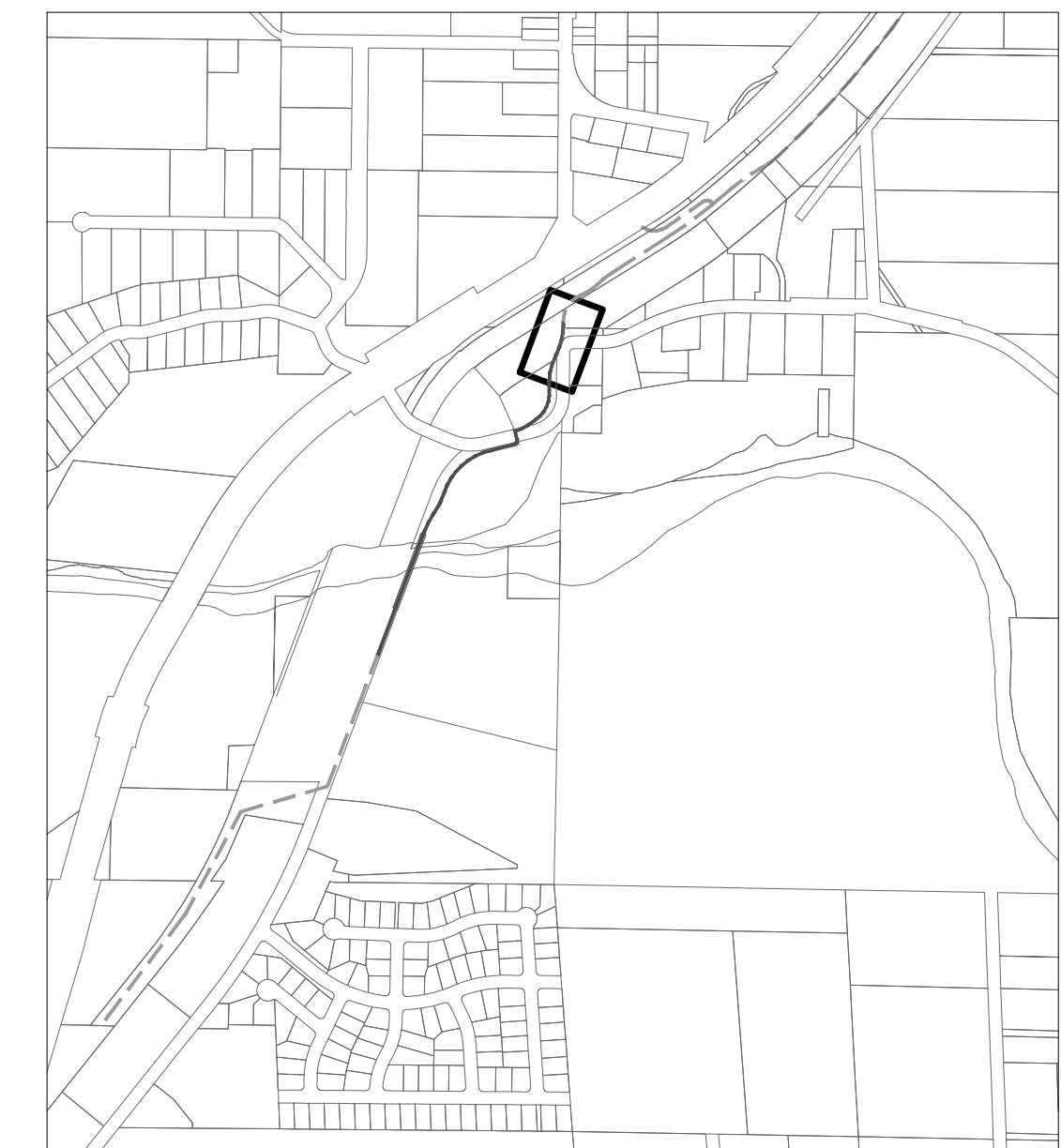
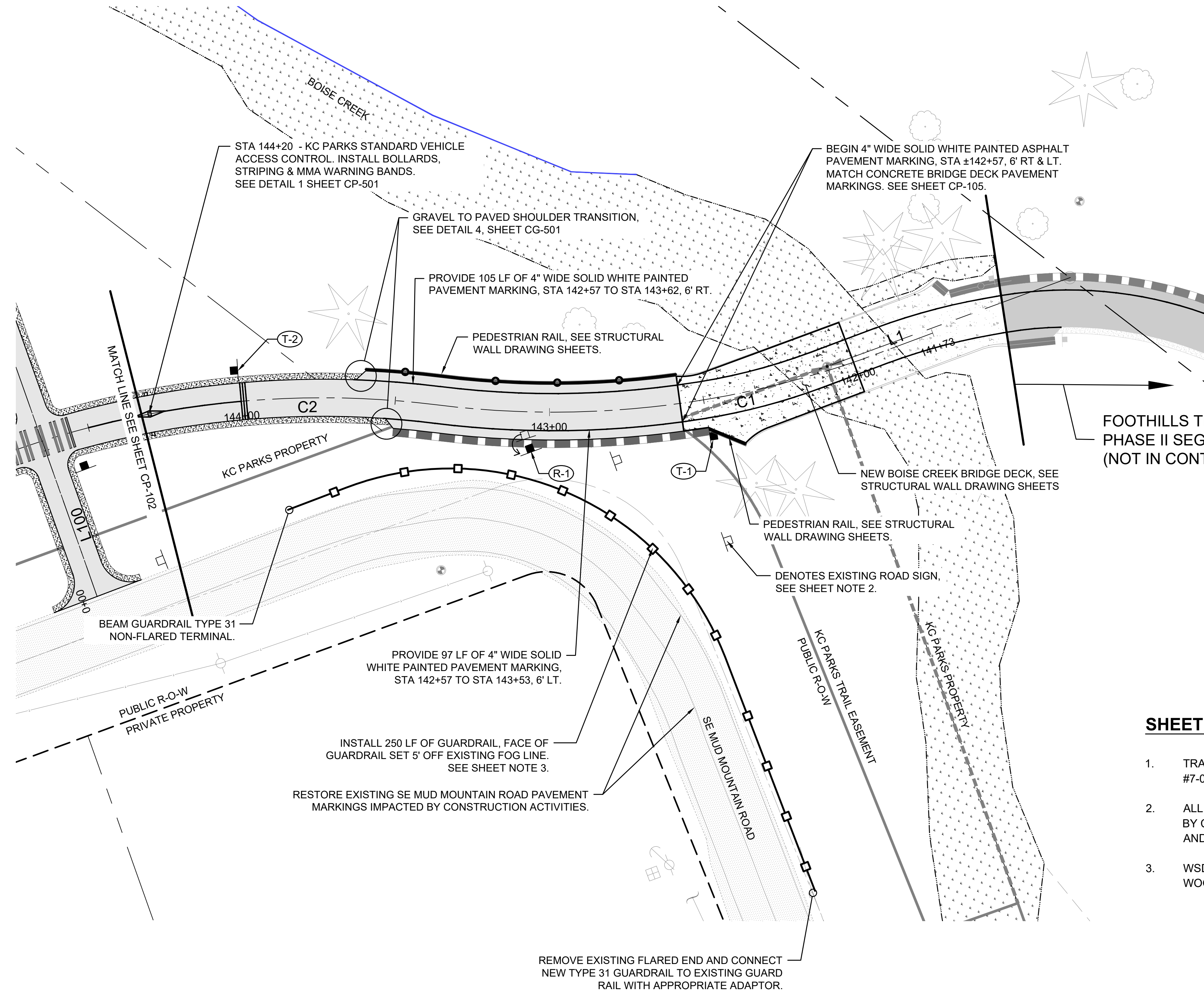
- ROCKERY OPTION USED TO REDUCE CUT SLOPE GRADING FOR CUT SLOPE TRANSITION FROM END OF STRUCTURAL WALLS TO THE TRAIL SECTION AND WHEN REDUCING CUT SLOPES TO SAVE SPECIMEN TREES. THE OWNER'S PROJECT REPRESENTATIVE SHALL REVIEW AND APPROVE ROCKERY PRIOR TO PLACEMENT OF ROCK.
- ROCKS SHALL BE RECTANGULAR WITH 3-MAN ROCKS USED IN BASE COURSE AND 2-MAN ROCKS USED IN TOP COURSES. ROCKS SAVAGED FROM ROCK ARMOR REMOVAL AREAS WILL BE PERMITTED WITH THE OWNER'S PROJECT REPRESENTATIVE APPROVAL.
- ROCKERY WALL DRAIN PIPE, 6"Ø PERFORATED PVC PIPE, WILL BE THE SAME PIPE MATERIAL APPROVED FOR USE WITH THE STRUCTURAL WALLS DRAINS.



Know what's below.
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SEC. 34 & 35, T 20 N, R 6 E, W.M.



KEY MAP

LEGEND (PROPOSED)

- PAVED ASPHALT SURFACE
- GRAVEL SURFACE
- RETAINING WALL, CUT SECTION
- RETAINING WALL, FILL SECTION
- CHAIN LINK FENCE
- SIGN
- SIGN #, SEE SIGN SCHEDULE

SHEET NOTES:

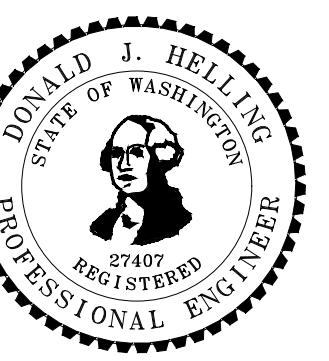
1. TRAIL SIGNS SHALL BE INSTALLED PER KING COUNTY PARKS STANDARD DETAIL #7-002, SEE DETAIL 1 SHEET CP-503 (UNLESS OTHERWISE NOTED).
2. ALL EXISTING ROAD SIGNS AND POSTS ALONG SE MUD MOUNTAIN ROAD IMPACTED BY CONSTRUCTION SHALL BE REINSTALLED AT THEIR EXISTING CONFIGURATION AND LOCATIONS UNLESS OTHERWISE NOTED. SEE DETAIL 2 SHEET CP-503.
3. WSDOT STANDARD BEAM GUARDRAIL TYPE 31, CASE 2 WITH 6-INCH x 8-INCH WOOD/TIMBER POSTS.

SIGN SCHEDULE

SIGN #	STATION / OFFSET	SIGN TYPE	MUTCD CODE	SIZE (INCHES)	REMARKS
T-1	142+50, 12' LT	KC PARKS BRIDGE SIGN	N/A	N/A	SIGN PROVIDED BY KC PARKS, INSTALLED BY CONTRACTOR, 7-FOOT MIN MOUNTING HEIGHT
T-2	144+00, 10' RT	INTERSECTION WARNING	W2-1	18X18	
R-1	RELOCATE 5' EAST	DIRECTION - 15 MPH	N/A	N/A	RELOCATE EXISTING ROAD SIGN AND POST WHERE SHOWN

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FOOTHILLS TRAIL
 PHASE II SEGMENT B
 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
 CONTRACT # C---

ISSUE / REVISIONS	ID	DATE	DESCRIPTION
	△	2/13/2020	30% SUBMITTAL
	△	12/30/2020	65% SUBMITTAL
	△	5/24/2021	90% SUBMITTAL

PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY LAJ CHECKED BY GS
 SHEET TITLE
TRAIL PLAN

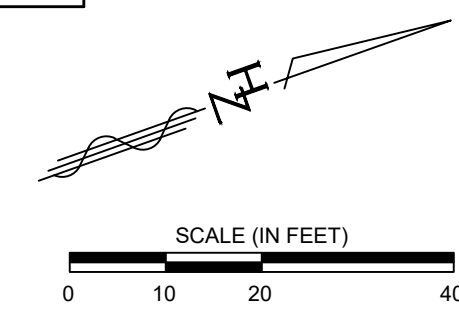
BOISE CREEK
 BRIDGE TO
 STA 144+50

CP-101

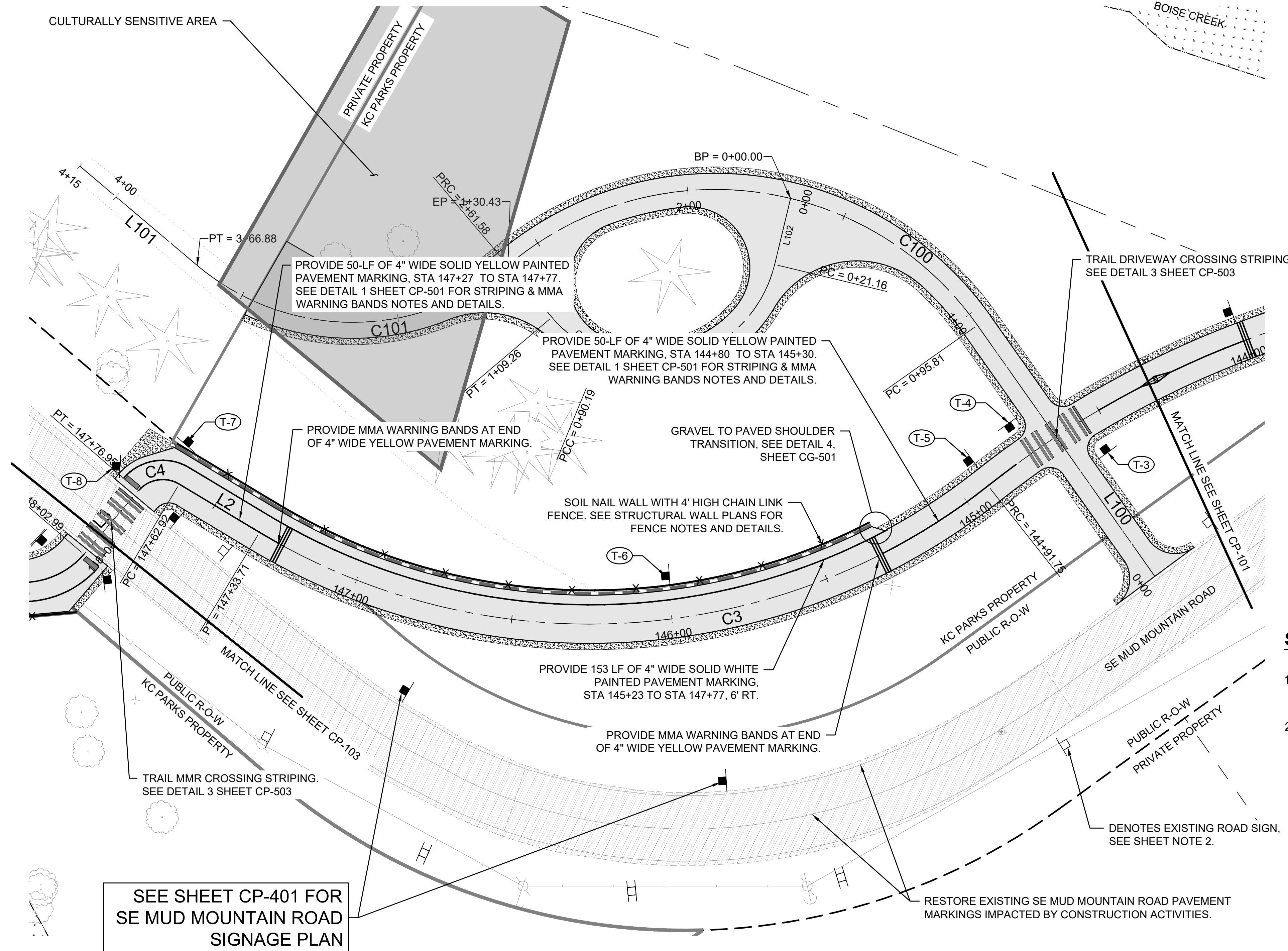


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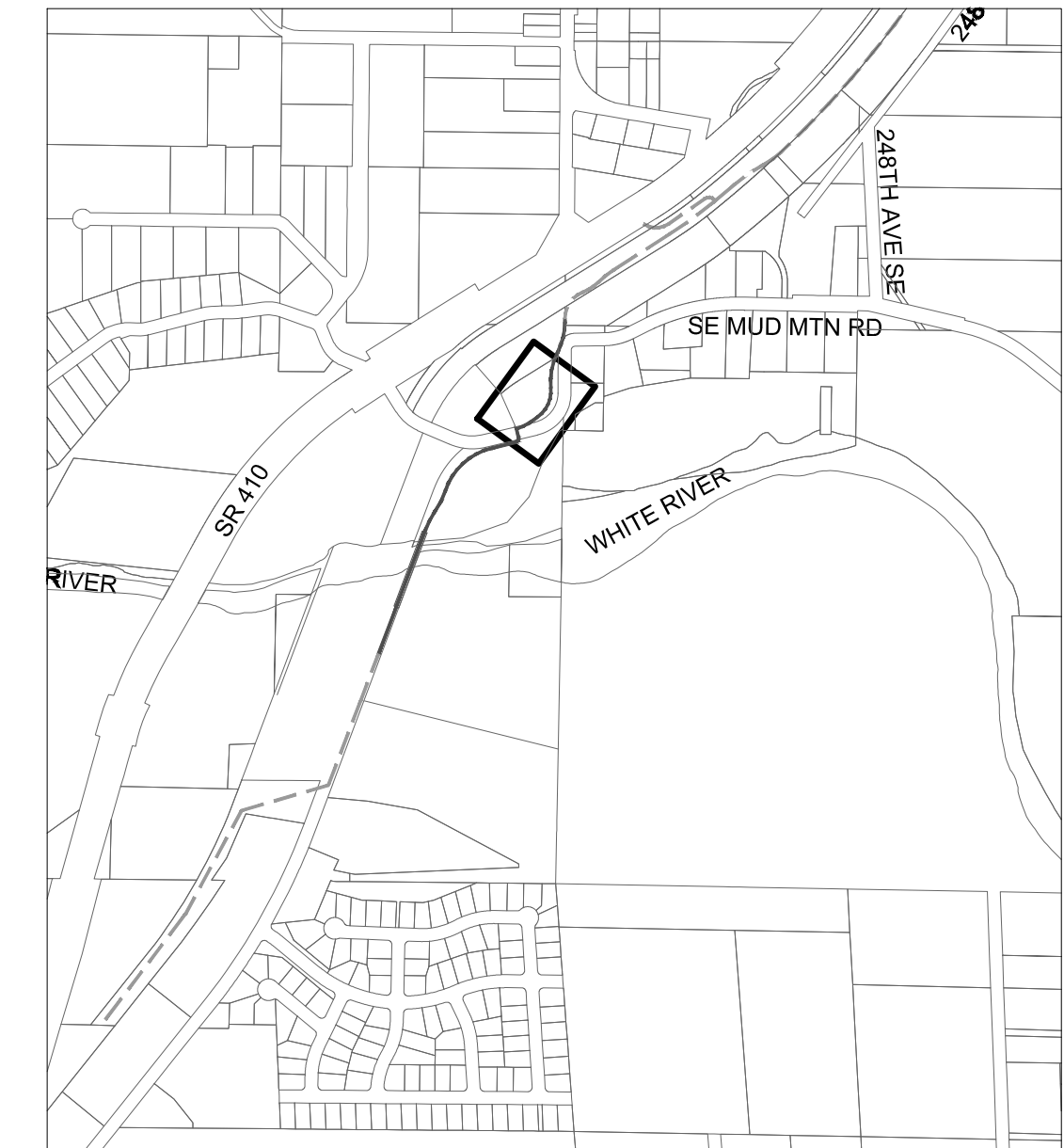
SEC. 34 & 35, T 20 N, R 6 E, W.M.



SEE SHEET CP-401 FOR SE MUD MOUNTAIN ROAD SIGNAGE PLAN

SHEET NOTES:

- TRAIL SIGNS SHALL BE INSTALLED PER KING COUNTY PARKS STANDARD DETAIL #7-002, SEE DETAIL 1 SHEET CP-503 (UNLESS OTHERWISE NOTED).
- ALL EXISTING ROAD SIGNS AND POSTS ALONG SE MUD MOUNTAIN ROAD IMPACTED BY CONSTRUCTION SHALL BE REINSTALLED AT THEIR EXISTING CONFIGURATION AND LOCATIONS UNLESS OTHERWISE NOTED. SEE DETAIL 2 SHEET CP-503.



KEY MAP

LEGEND (PROPOSED)

- PAVED ASPHALT SURFACE
- GRAVEL SURFACE
- RETAINING WALL, CUT SECTION
- RETAINING WALL, FILL SECTION
- CHAIN LINK FENCE
- SIGN
- SIGN #, SEE SIGN SCHEDULE



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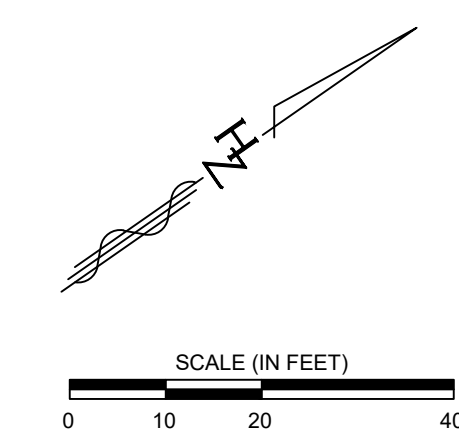
ISSUE / REVISIONS		
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PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY LAJ CHECKED BY GS
 SHEET TITLE

TRAIL PLAN
 STA 144+50
 TO
 STA 148+00

CP-102

SIGN SCHEDULE					
SIGN #	STATION / OFFSET	SIGN TYPE	MUTCD CODE	SIZE (INCHES)	REMARKS
T-3	D/W 0+40, 10' RT	YIELD	R1-2	18X18	YIELD TO BICYCLE/PEDESTRIAN
T-4	D/W 0+65, 10' LT	YIELD	R1-2	18X18	YIELD TO BICYCLE/PEDESTRIAN
T-5	144+90, 10' RT	HILL	W7-5	18X18	DOWN SLOPE
T-6	146+00, 10' RT	STOP AHEAD	W3-1	18X18	TOP OF WALL SIGN MOUNTING
T-7	(SEE REMARK)	NO MOTOR VEHICLES	R5-3	24X24	TOP OF WALL SIGN MOUNTING WHERE SHOWN
T-8	147+77, 10' RT	STOP	R1-1	24X24	ROTATE SIGN TOWARDS TRAIL USER APPROACH TO CROSSING



GRDE XX-XXXX
 KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

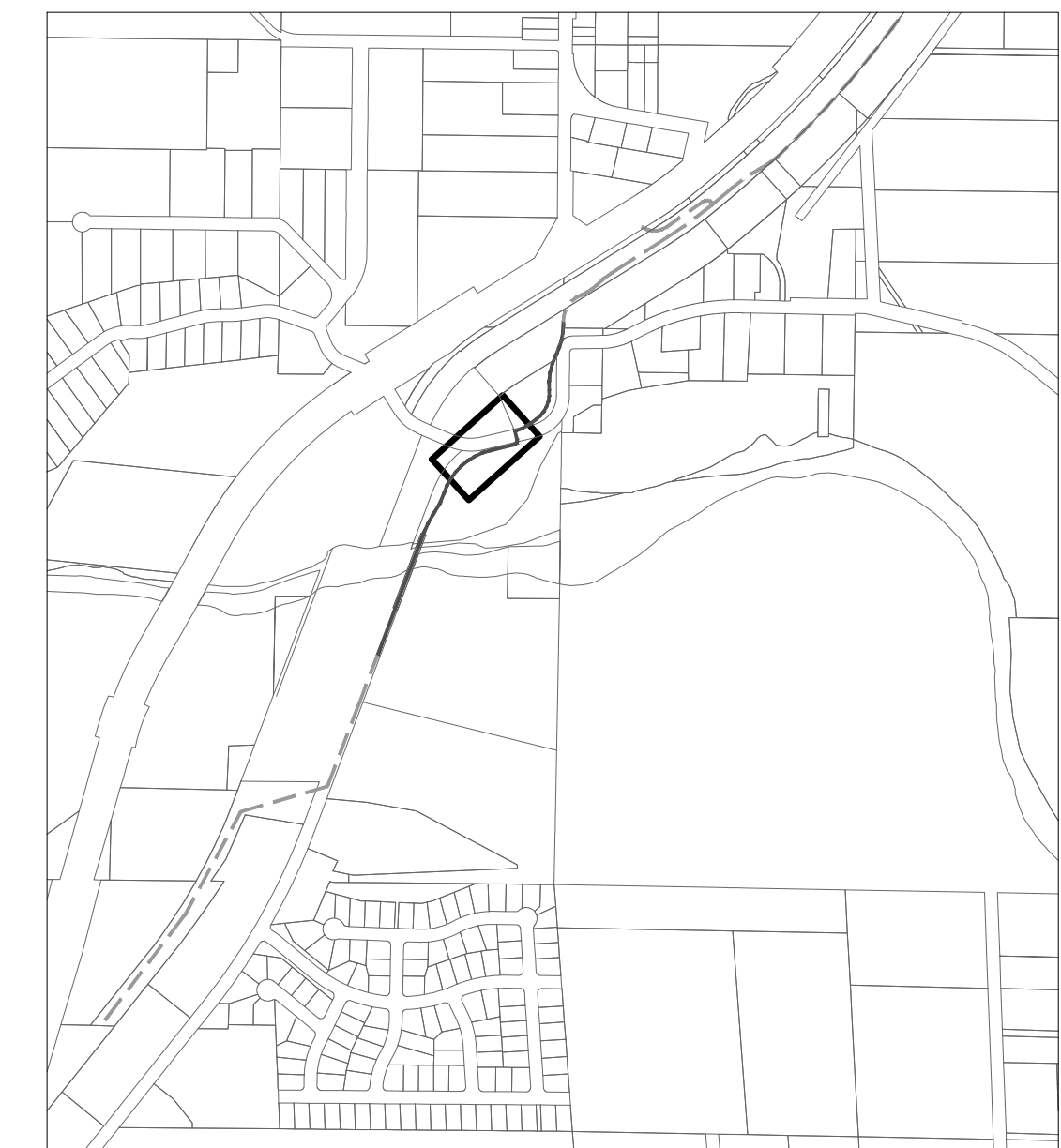
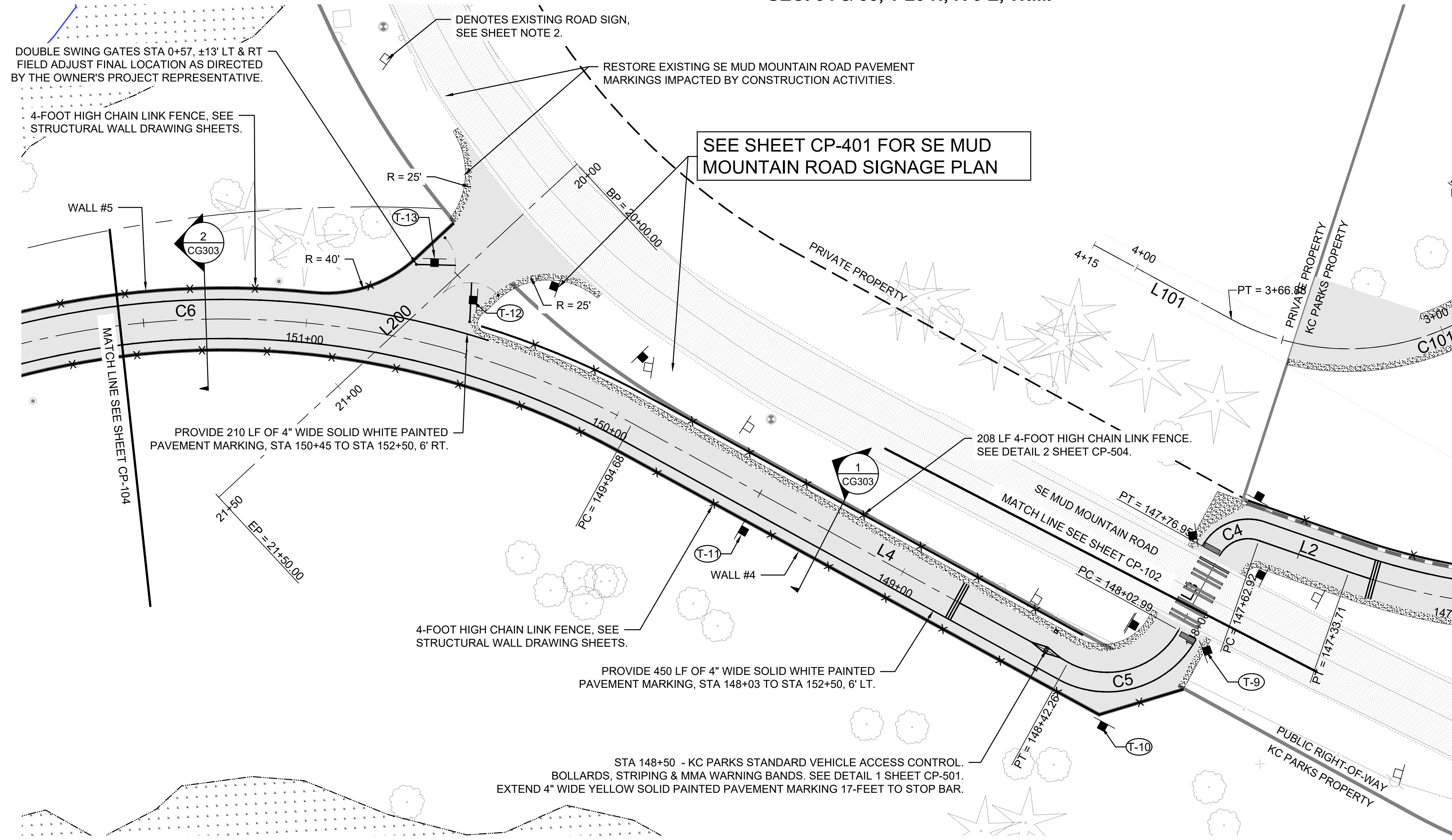
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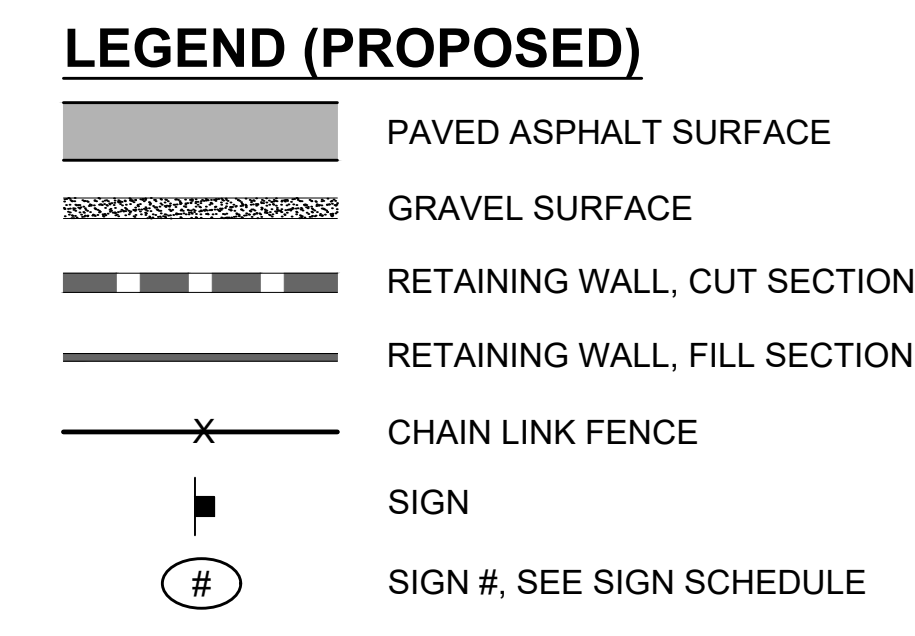
Know what's below.
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SEC. 34 & 35, T 20 N, R 6 E, W.M.



KEY MAP



SIGN SCHEDULE					
SIGN #	STATION / OFFSET	SIGN TYPE	MUTCD CODE	SIZE (INCHES)	REMARKS
T-9	148+05, 10' LT	STOP	R1-1	24X24	ROTATE SIGN TOWARDS TRAIL USER APPROACH TO CROSSING
T-10	(SEE REMARK)	NO MOTOR VEHICLES	R5-3	24X24	TOP OF WALL SIGN MOUNTING WHERE SHOWN
T-11	149+50, 10' LT	STOP AHEAD	W3-1	18X18	TOP OF WALL SIGN MOUNTING
T-12	(SEE REMARK)	NO PARKING ANY TIME	R7-101	12X18	MOUNTED ON EAST SWING GATE
T-13	(SEE REMARK)	AUTHORIZED VEHICLES ONLY	R5-11	12X18	MOUNTED ON WEST SWING GATE

SHEET NOTES:

- TRAIL SIGNS SHALL BE INSTALLED PER KING COUNTY PARKS STANDARD DETAIL #7-002, SEE DETAIL 1 SHEET CP-503 (UNLESS OTHERWISE NOTED).
- ALL EXISTING ROAD SIGNS AND POSTS ALONG SE MUD MOUNTAIN ROAD IMPACTED BY CONSTRUCTION SHALL BE REINSTALLED AT THEIR EXISTING CONFIGURATION AND LOCATIONS UNLESS OTHERWISE NOTED. SEE DETAIL 2 SHEET CP-503.

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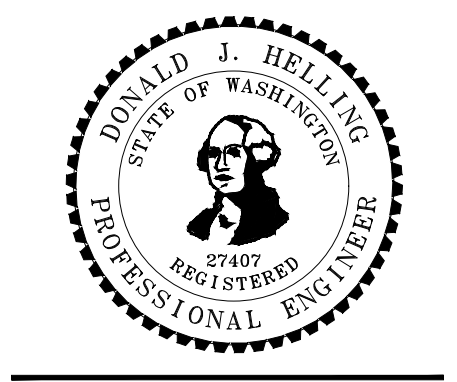
PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY LAJ CHECKED BY GS
 SHEET TITLE
TRAIL PLAN

STA 148+00
 TO
 STA 151+50

CP-103

King County
 Department of Natural Resources and Parks
Parks and Recreation Division
 King Street Center, KSC-NR-0700
 201 So. Jackson Street, Suite 700
 Seattle, Washington 98104
 Telephone: (206) 477-4527
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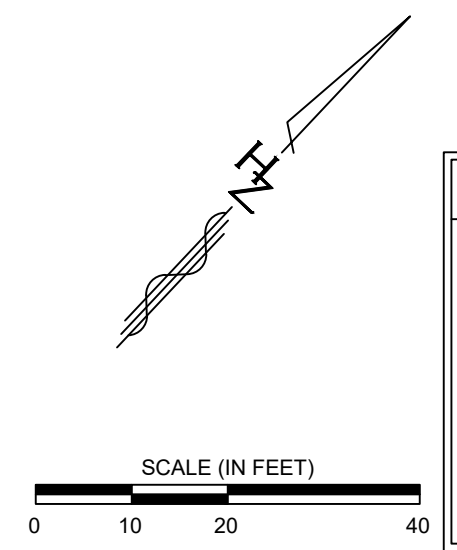
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 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
 CONTRACT # C---



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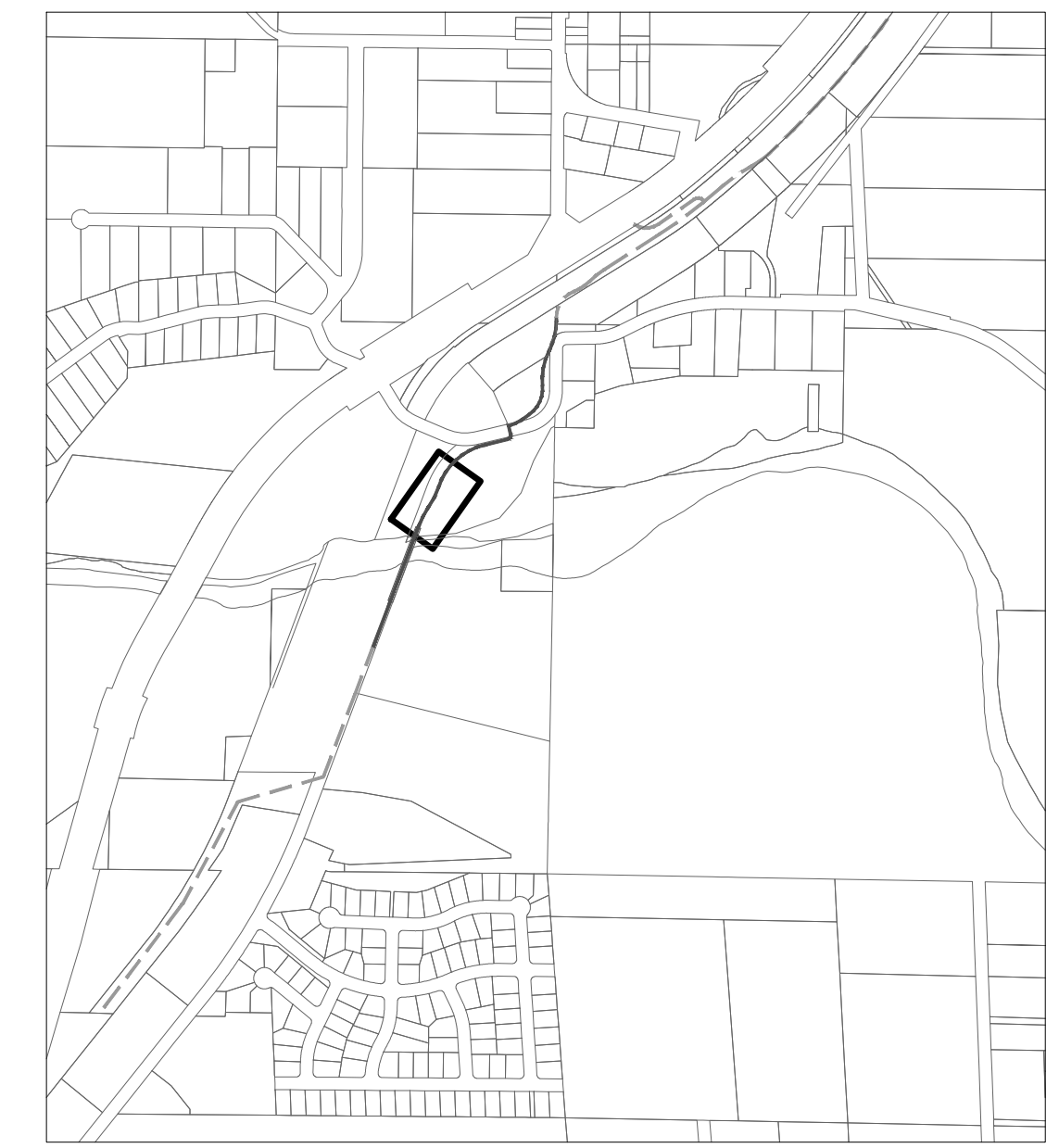
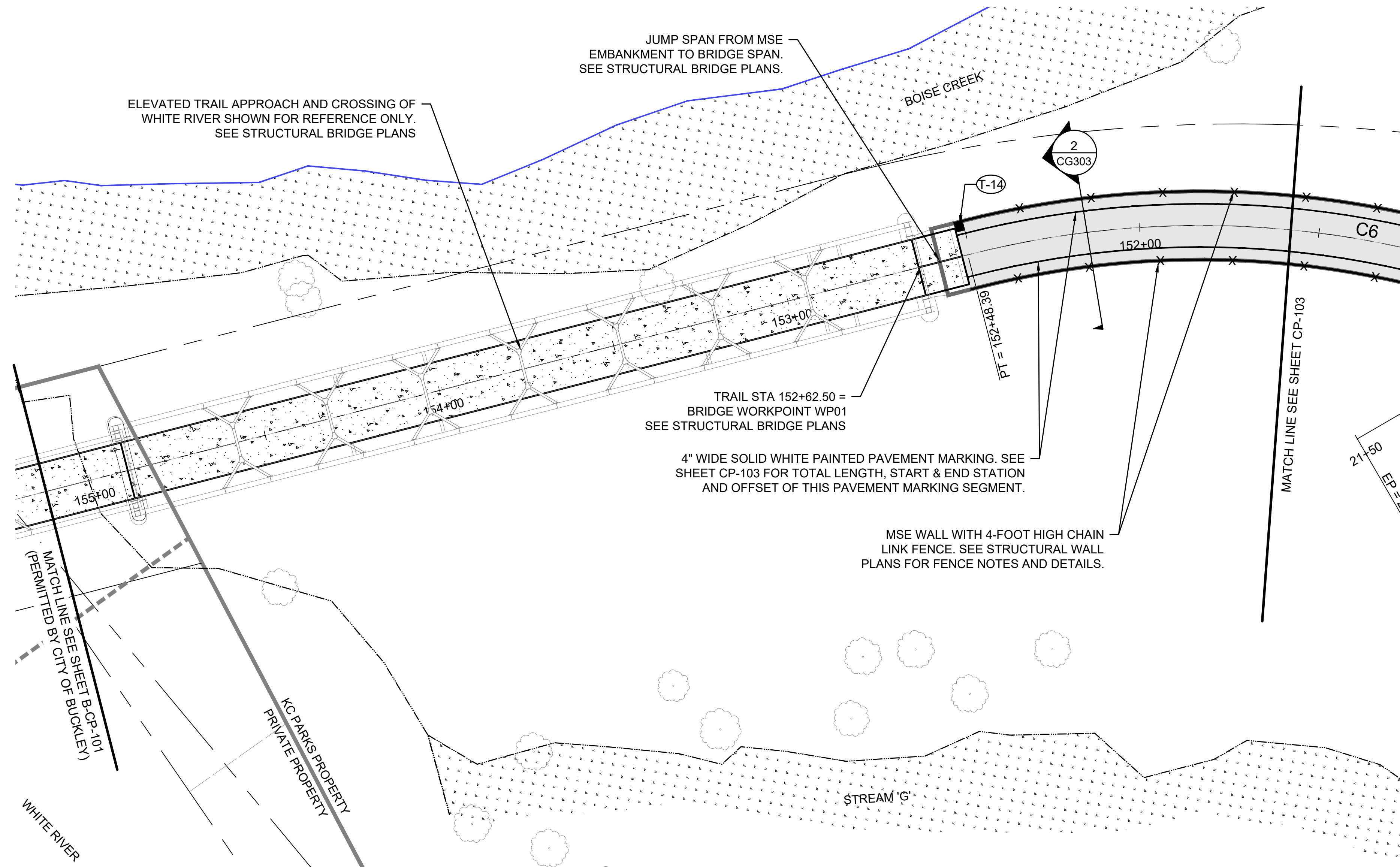


GRDE XX-XXXX
 KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

J:\15095305 - Foothills Trail\E00115E08\10 CADD & BIM\10.1 AutoCAD\80% Sheet Files\ AV20 15095305-CP-103.dwg Monday, May 24, 2021 9:43am

SEC. 34 & 35, T 20 N, R 6 E, W.M.



KEY MAP

LEGEND (PROPOSED)

- PAVED ASPHALT SURFACE
- GRAVEL SURFACE
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- RETAINING WALL, FILL SECTION
- CHAIN LINK FENCE
- SIGN
- SIGN #, SEE SIGN SCHEDULE

SHEET NOTES:

- TRAIL SIGNS SHALL BE INSTALLED PER KING COUNTY PARKS STANDARD DETAIL #7-002, SEE DETAIL 1 SHEET CP-503 (UNLESS OTHERWISE NOTED)

SIGN SCHEDULE					
SIGN #	STATION / OFFSET	SIGN TYPE	MUTCD CODE	SIZE (INCHES)	REMARKS
T-14	152+48, 10' RT	KC PARKS BRIDGE SIGN	N/A	N/A	PROVIDED BY PARKS, INSTALLED BY CONTRACTOR

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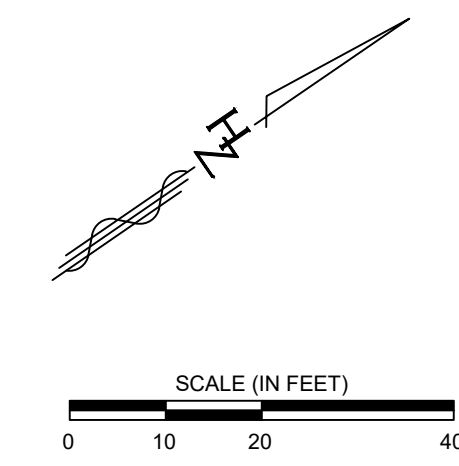
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PROJECT NO. 15095305
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 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY LAJ CHECKED BY GS
 SHEET TITLE
TRAIL PLAN

STA 151+50
 TO
 STA 155+00

CP-104



GRDE XX-XXXX
 KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



90% SUBMITTAL

SEC. 34 & 35, T 20 N, R 6 E, W.M.



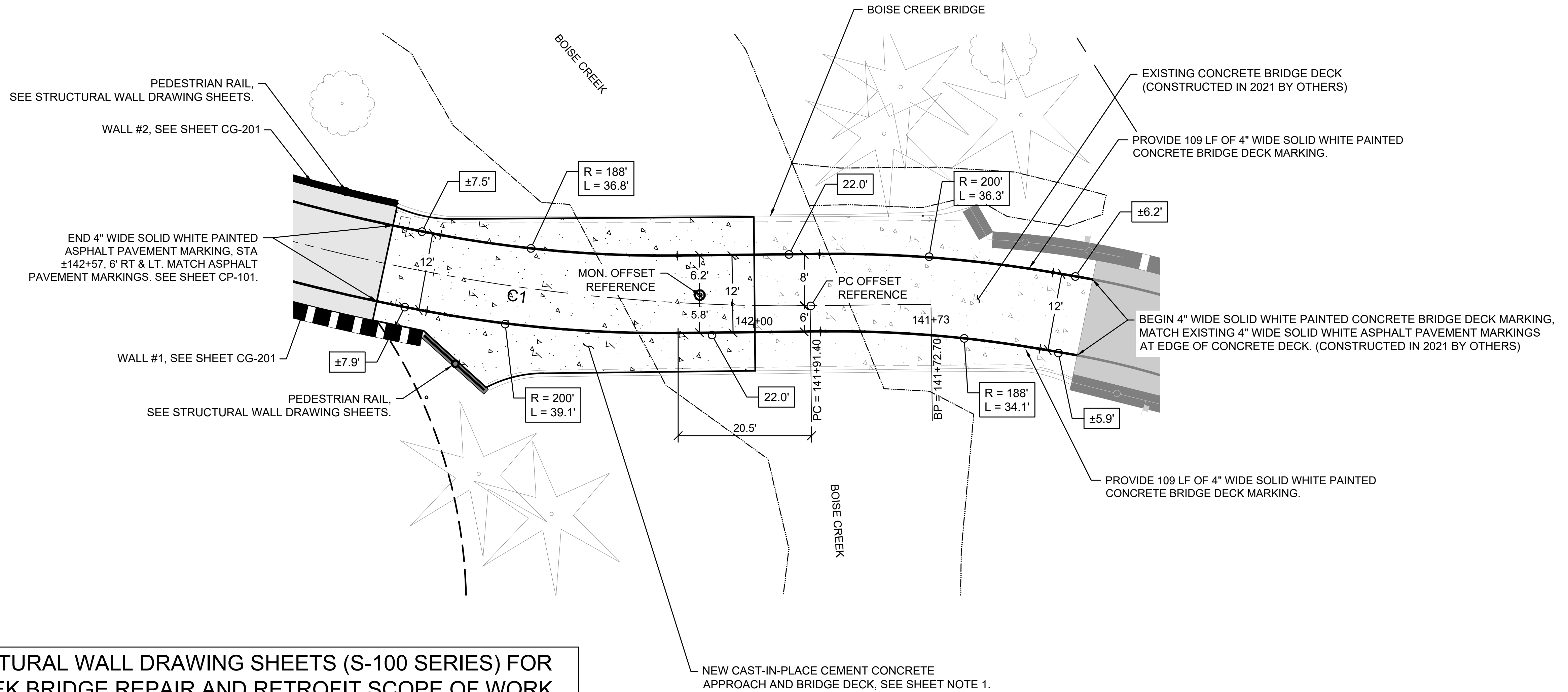
King County

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 PHASE II SEGMENT B
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 CONTRACT # C---



SEE STRUCTURAL WALL DRAWING SHEETS (S-100 SERIES) FOR BOISE CREEK BRIDGE REPAIR AND RETROFIT SCOPE OF WORK.

SHEET NOTES:

1. NEW CEMENT CONCRETE BRIDGE DECK. SEE STRUCTURAL WALL PLANS FOR BOISE CREEK BRIDGE NEW CONCRETE SLAB NOTES, SECTIONS AND DETAILS.

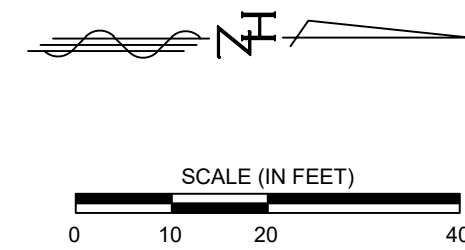
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PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY VUL CHECKED BY GRS

SHEET TITLE
**BOISE CREEK
 BRIDGE DECK
 STRIPING PLAN**

GRDE XX-XXXX
 KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



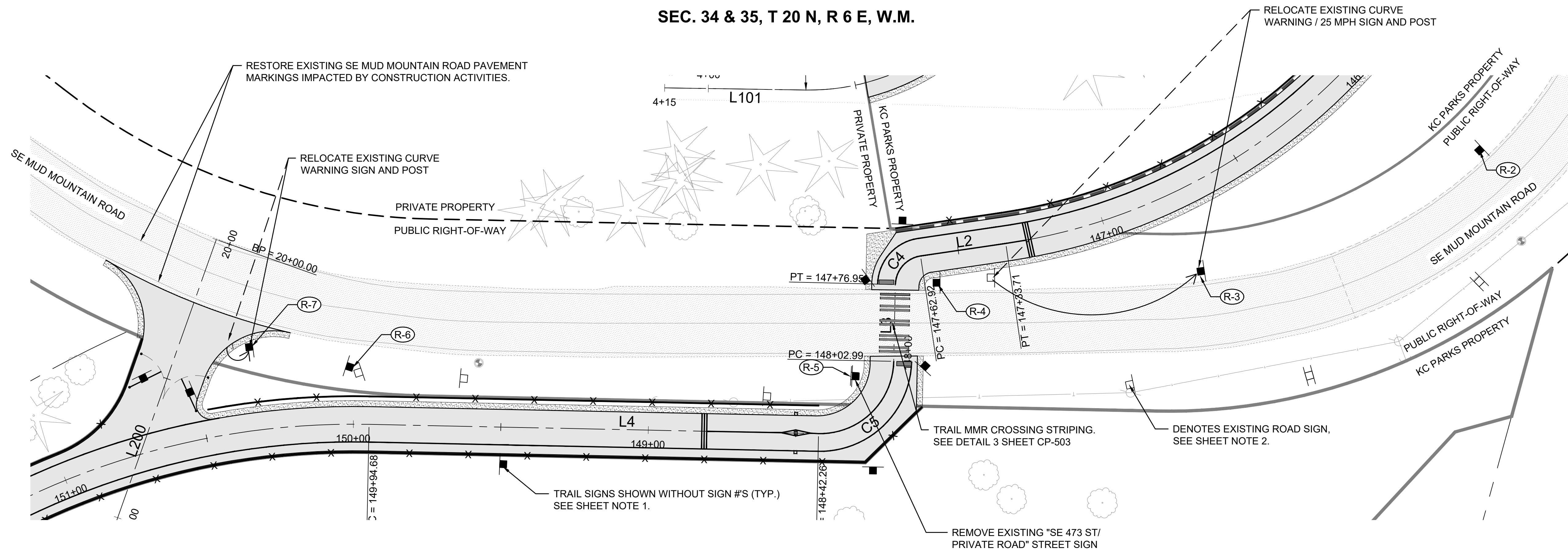
CP-105



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SEC. 34 & 35, T 20 N, R 6 E, W.M.



SIGN SCHEDULE

SIGN #	STATION / OFFSET	SIGN TYPE	MUTCD CODE	SIZE (*)	REMARKS
R-2	200' FROM TRAIL X-ING	COMBINATION BIKE AND PED CROSSING	W11-15	30 X 30	PLACE SIGN POST 5-FEET OFF FOG LINE AS SHOWN
		TRAIL CROSSING (PLAQUE)	W11-15P	24 X 18	SIGN ON SAME POST ABOVE
		AHEAD (PLAQUE)	W16-9P	24 X 12	SIGN ON SAME POST ABOVE
R-3	100' FROM TRAIL X-ING	EX CURVE WARNING / 25 MPH	N/A	N/A	RELOCATE EXISTING SIGN AND POST 5-FEET OF FOG LINE AS SHOWN
		DIAGONAL ARROW LEFT (PLAQUE)	W16-7P	24 X 12	SIGN ON SAME POST ABOVE
R-4	147+77, 10' LT	COMBINATION BIKE AND PED CROSSING	W11-15	30 X 30	
		DIAGONAL ARROW LEFT (PLAQUE)	W16-7P	24 X 12	SIGN ON SAME POST ABOVE
		DIAGONAL ARROW LEFT (PLAQUE)	W16-7P	24 X 12	SIGN ON SAME POST ABOVE
R-5	148+05, 10' RT	COMBINATION BIKE AND PED CROSSING	W11-15	30 X 30	REMOVE EXISTING "SE 473 ST/PRIVATE ROAD" STREET SIGN; INSTALL NEW SIGNS AND POST
		DIAGONAL ARROW LEFT (PLAQUE)	W16-7P	24 X 12	SIGN ON SAME POST ABOVE
		DIAGONAL ARROW LEFT (PLAQUE)	W16-7P	24 X 12	SIGN ON SAME POST ABOVE
R-6	±185' FROM TRAIL X-ING	COMBINATION BIKE AND PED CROSSING	W11-15	30 X 30	INSTALL NEW EAST BOUND SIGNS AND POST NEXT TO EXISTING WEST BOUND CURVE WARNING SIGN AS SHOWN
		TRAIL CROSSING (PLAQUE)	W11-15P	24 X 18	SIGN ON SAME POST ABOVE
		AHEAD (PLAQUE)	W16-9P	24 X 12	SIGN ON SAME POST ABOVE
R-7	EAST OF ACCESS	EX CURVE WARNING	N/A	N/A	RELOCATE EXISTING SIGN AND POST NEAR ITS EXISTING LOCATION AS SHOWN

LEGEND (PROPOSED)

- PAVED ASPHALT SURFACE
- GRAVEL SURFACE
- RETAINING WALL, CUT SECTION
- RETAINING WALL, FILL SECTION
- CHAIN LINK FENCE
- SIGN
- SIGN #, SEE SIGN SCHEDULE

SHEET NOTES:

- SEE SHEETS CP-102 AND CP-103 FOR TRAIL SIGNAGE APPROACHING AND CROSSING SE MUD MOUNTAIN ROAD.
- ALL EXISTING ROAD SIGNS AND POSTS ALONG SE MUD MOUNTAIN ROAD IMPACTED BY CONSTRUCTION SHALL BE REINSTALLED AT THEIR EXISTING CONFIGURATION AND LOCATIONS UNLESS OTHERWISE NOTED. SEE DETAIL 2 SHEET CP-503.

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FOOTHILLS TRAIL
 PHASE II SEGMENT B
 KING COUNTY DEPT. OF NATURAL RESOURCES & PARKS
 CONTRACT # C--

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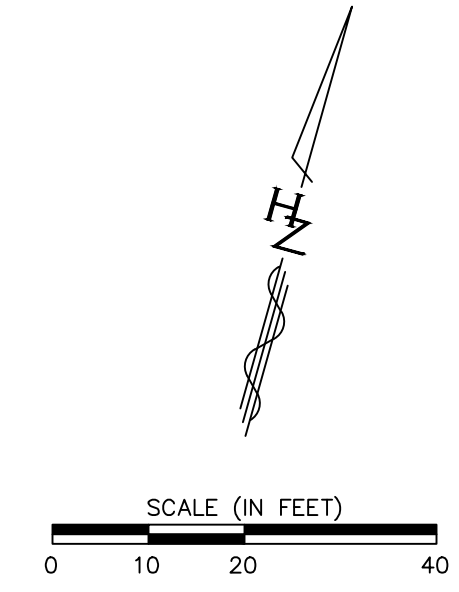
PROJECT NO. 15095305
 SITE NO.
 FILE
 CONTRACT NO. E00115E08 - AM. 20
 DRAWN BY LAJ CHECKED BY GS
 SHEET TITLE

SE MUD MTN RD
 TRAIL CROSSING
 SIGNAGE PLAN

GRDE XX-XXXX
 KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

CP-401
 46 OF 52



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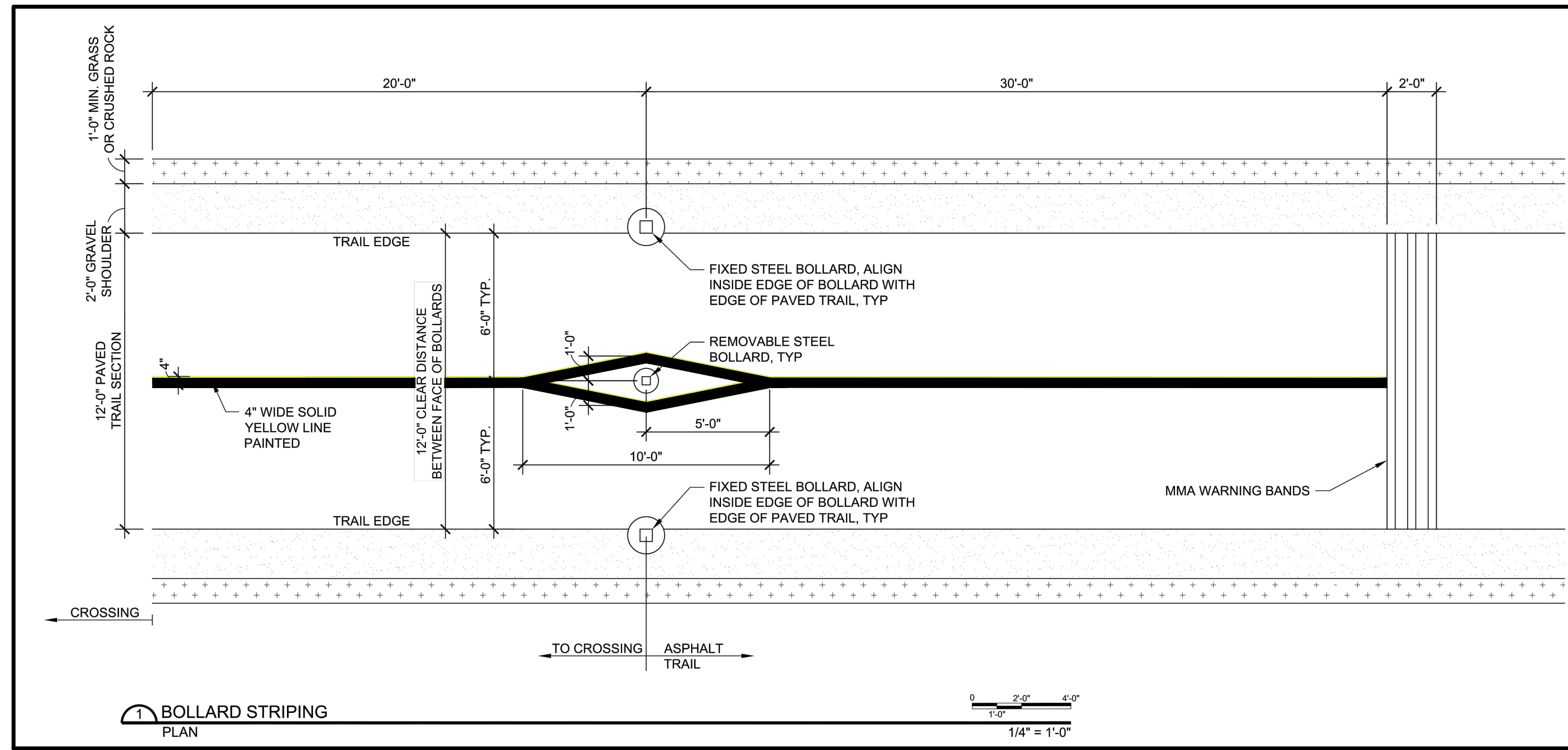
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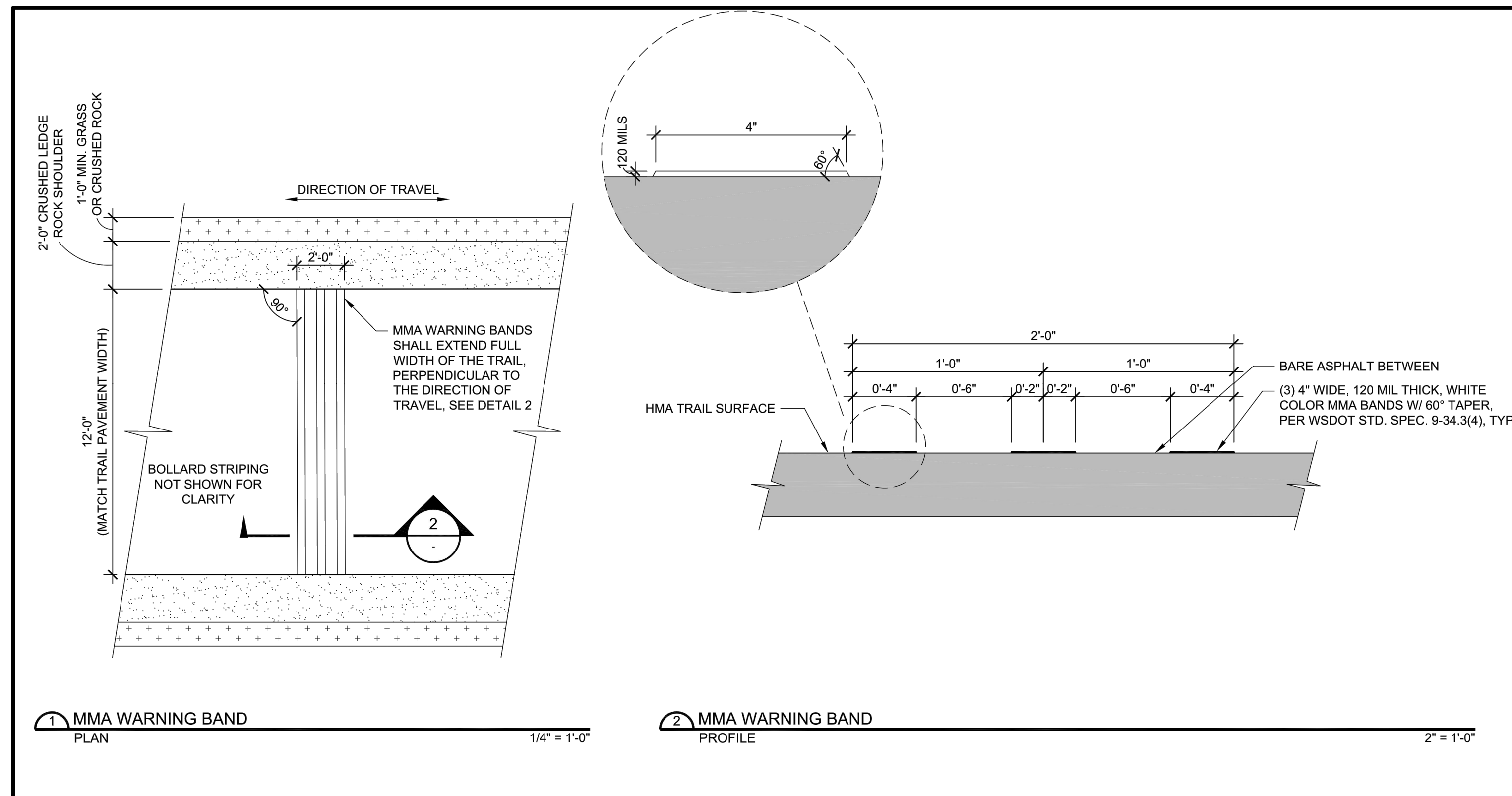
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1 REGIONAL TRAIL BOLLARD STRIPING
CP501

REFERENCE: KC PARKS STANDARD DETAIL DWG # 1-004
(NTS)



2 MMA WARNING BAND
CP501

REFERENCE: KC PARKS STANDARD DETAIL DWG # 1-006
(NTS)

SHEET NOTES:

- SEE SHEET CP-502 FOR REMOVABLE BOLLARD AND FIXED STEEL BOLLARD NOTES, SECTIONS AND DETAILS.



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TRAIL IMPROVEMENTS DETAILS

GRDE XX-XXXX

KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
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CP-501



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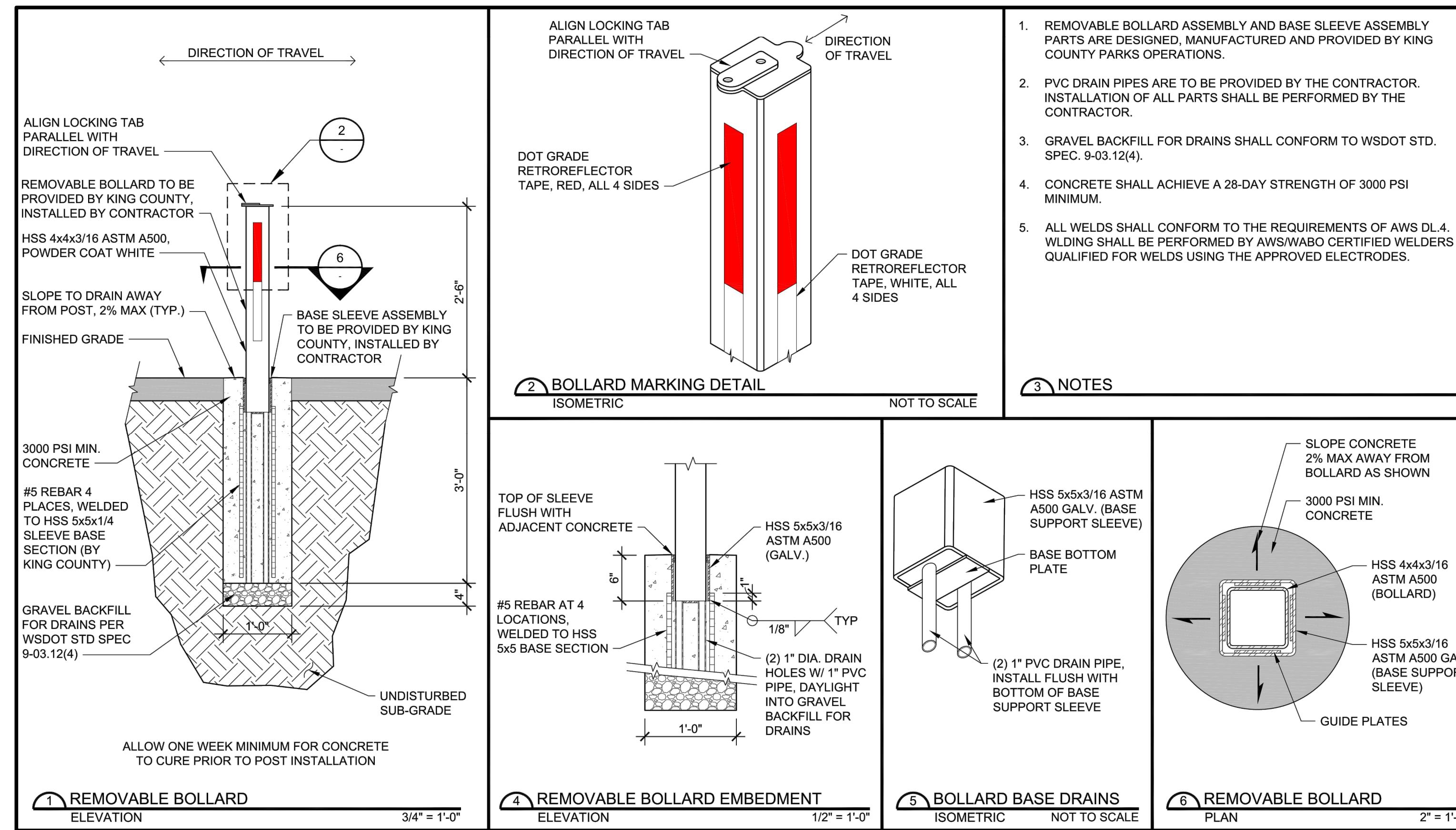
TRAIL IMPROVEMENTS DETAILS

GRDE XX-XXXX	
KING COUNTY DLSPD APPROVAL	
Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

CP-502

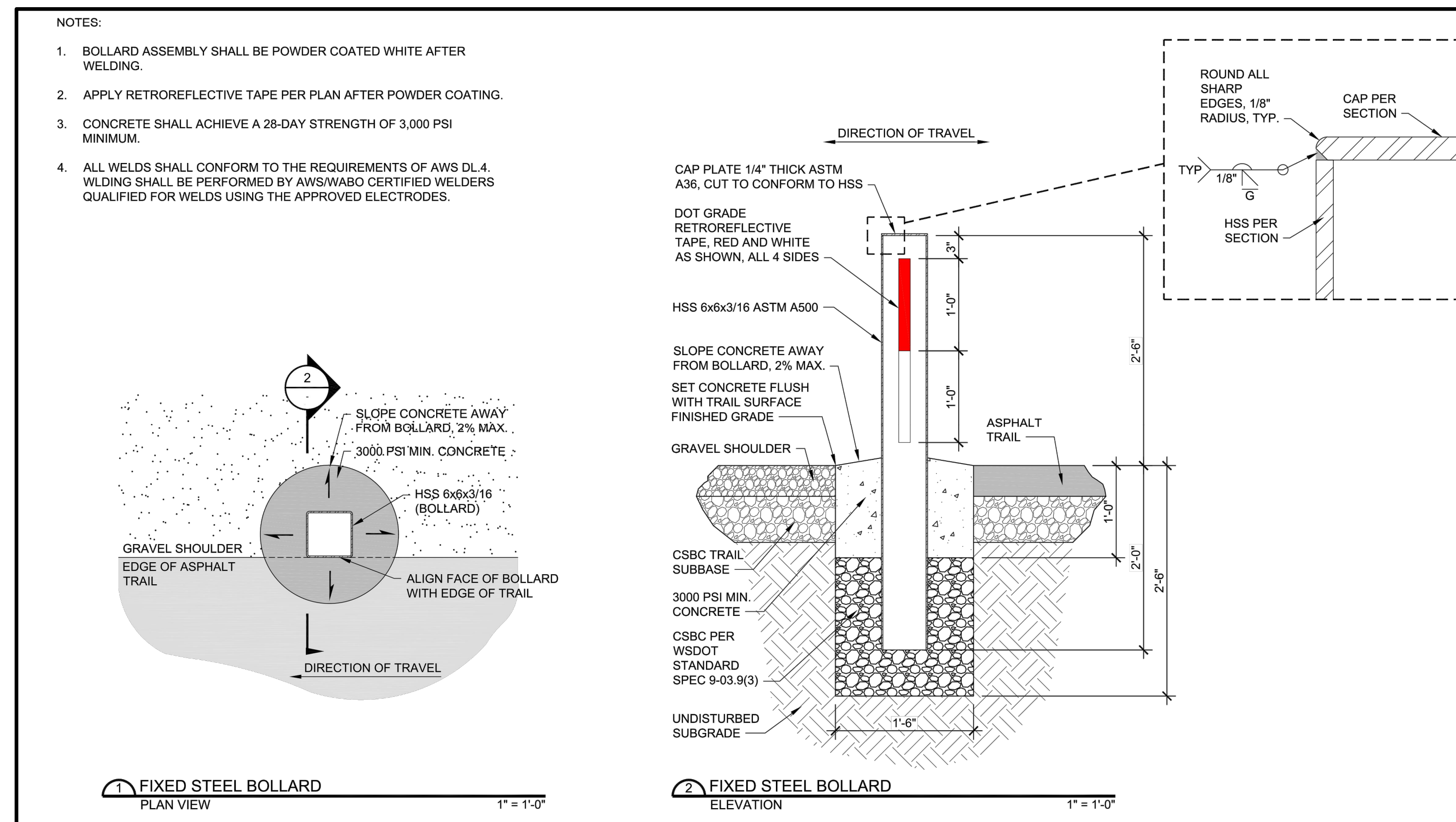
SHEET NOTES:

- BOLLARD AND STRIPING LAYOUT SHOWN ON DETAIL 1, SHEET CP-501, KING COUNTY PARKS REGIONAL TRAIL BOLLARD STRIPING DETAIL.
- REMOVABLE BOLLARD TO BE PROVIDED BY KING COUNTY PARKS, INSTALLED BY CONTRACTOR.



1 REMOVABLE BOLLARD
CP502

REFERENCE: KC PARKS STANDARD DETAIL DWG # 5-011
(NTS)



2 FIXED STEEL BOLLARD
CP502

REFERENCE: KC PARKS STANDARD DETAIL DWG # 5-010
(NTS)



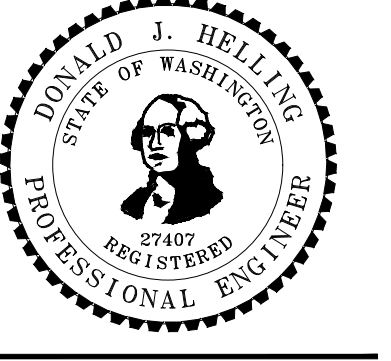
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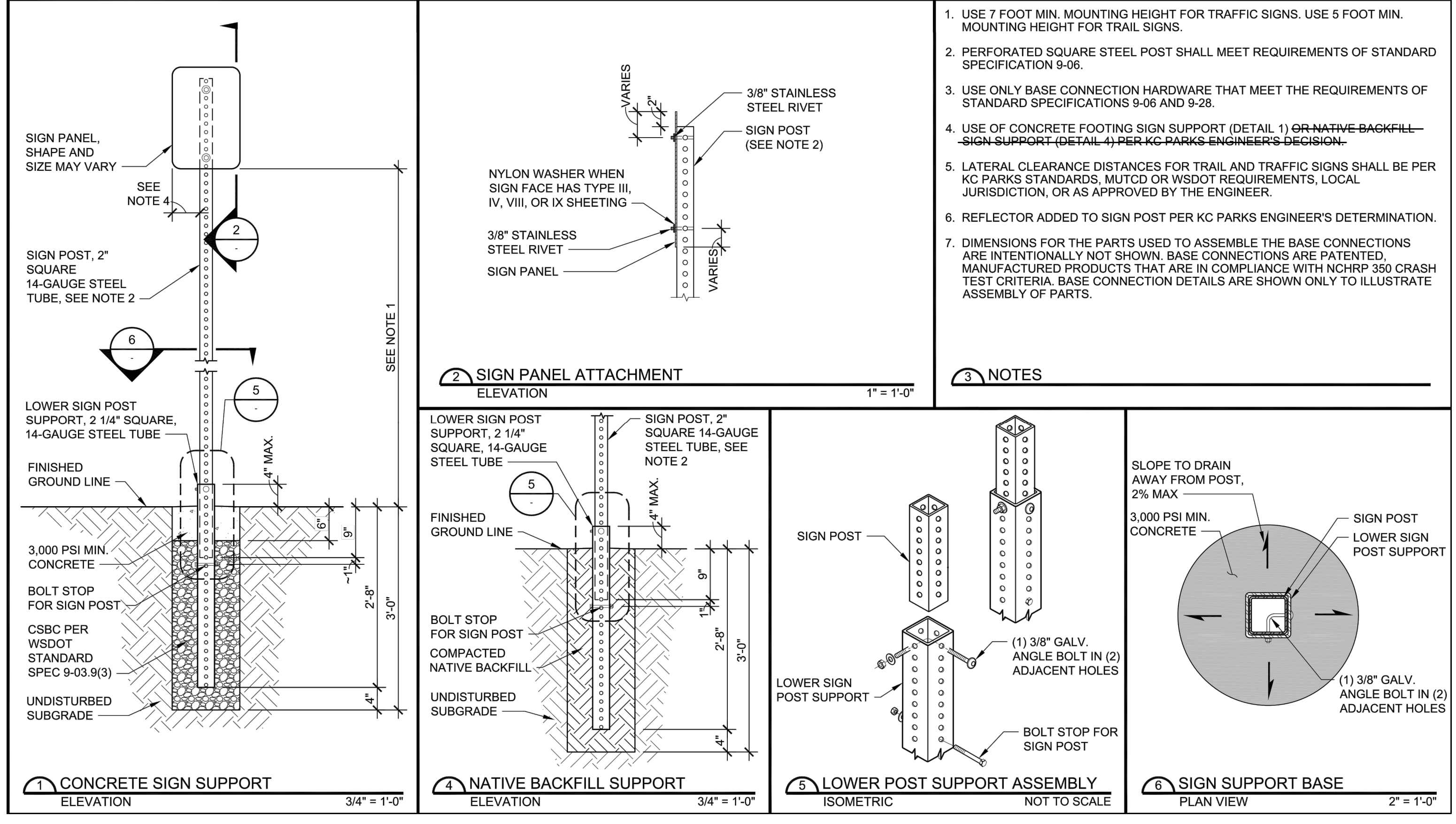
TRAIL IMPROVEMENTS DETAILS

CP-503

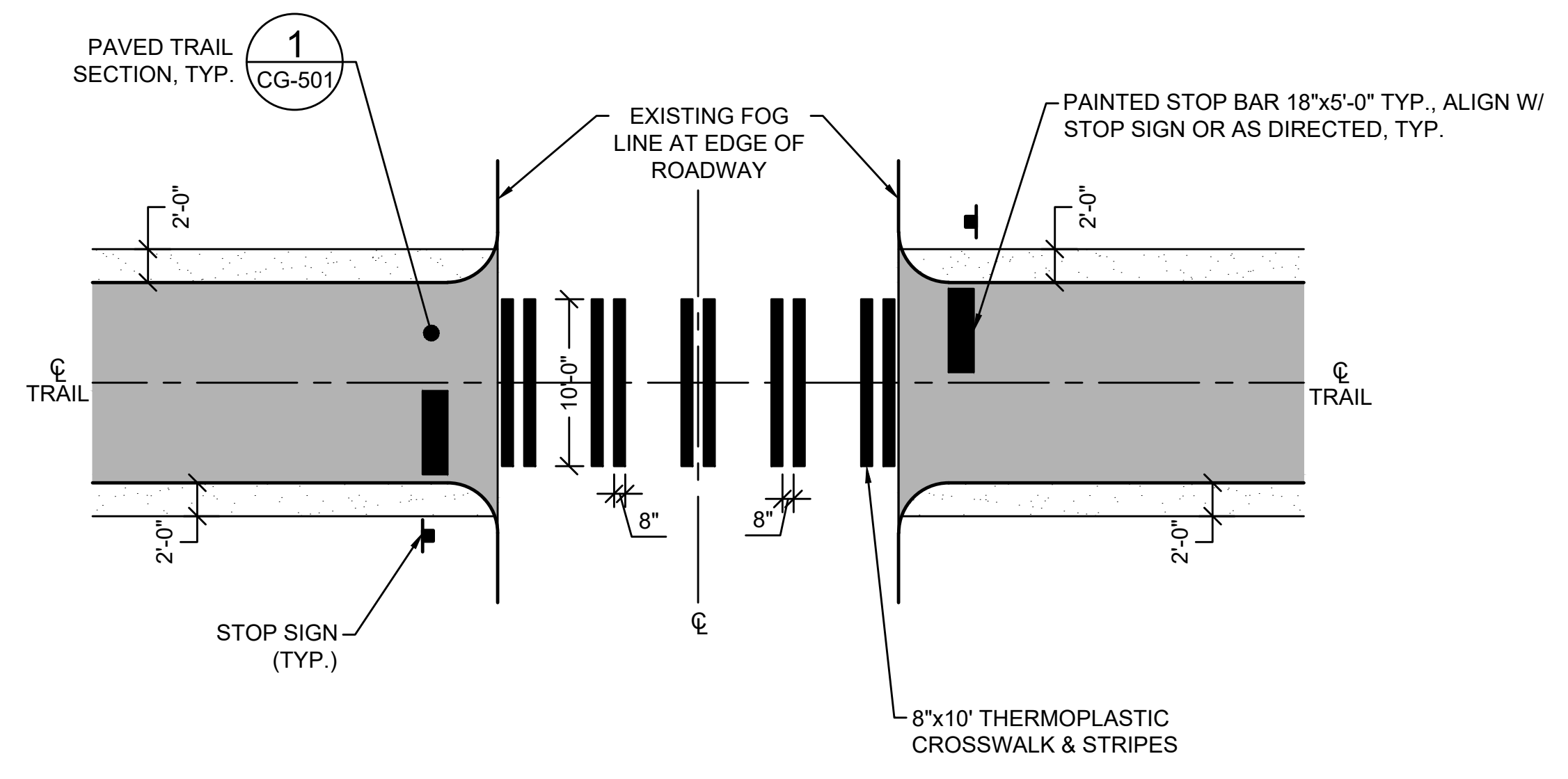
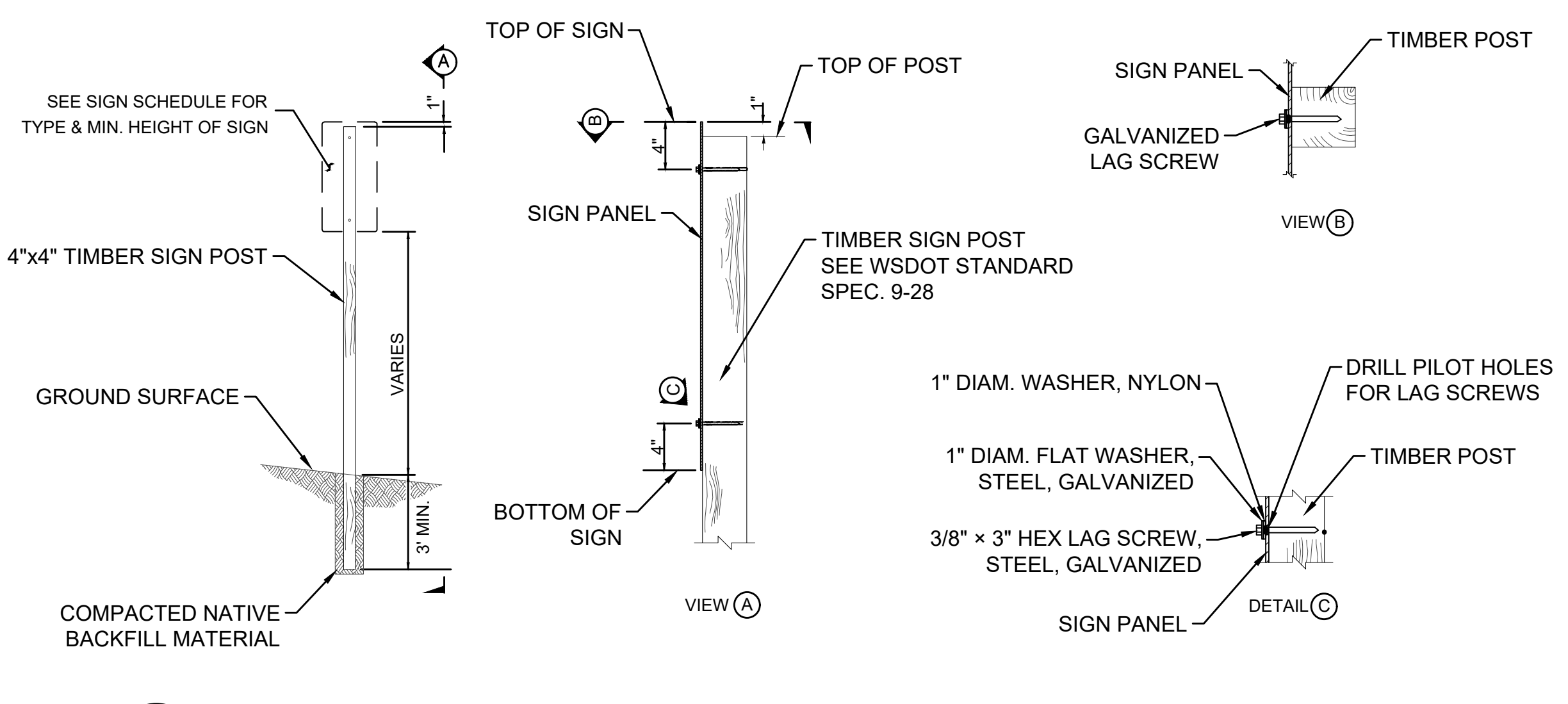
SHEET NOTES:

- SEE SHEET CP-402 FOR ADDITIONAL NOTES AND LOCATIONS WHERE SE MUD MOUNTAIN ROAD CROSSWALK AND ROADWAY SIGNS ARE TO BE INSTALLED.
- SEE CP-100 SERIES PLAN SHEETS FOR LOCATION OF SIGNS TO BE INSTALLED, SIGN SCHEDULE CALLOUTS SHOWN ON EACH SHEET.

- 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 SPECIFICATIONS 9-06 AND 9-28.
- USE ONLY BASE CONNECTION HARDWARE THAT MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS 9-06 AND 9-28.
- USE OF CONCRETE FOOTING SIGN SUPPORT (DETAIL 1) OR NATIVE BACKFILL SIGN SUPPORT (DETAIL 4) 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.



1 STEEL SIGN SUPPORT CP503 REFERENCE: KC PARKS STANDARD DETAIL DWG # 7-002 (NTS)



GRDE XX-XXXX
KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date



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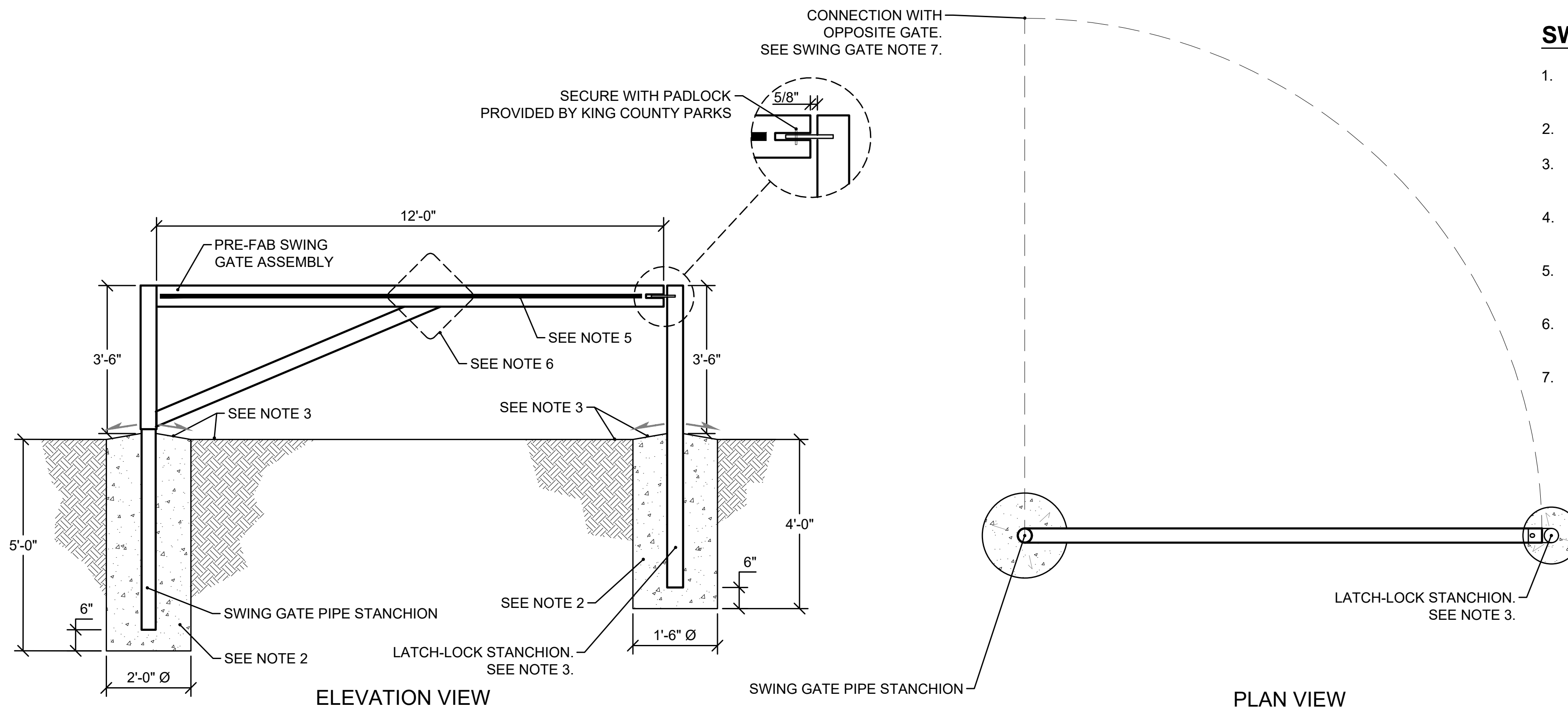
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TRAIL IMPROVEMENTS DETAILS

CP-504

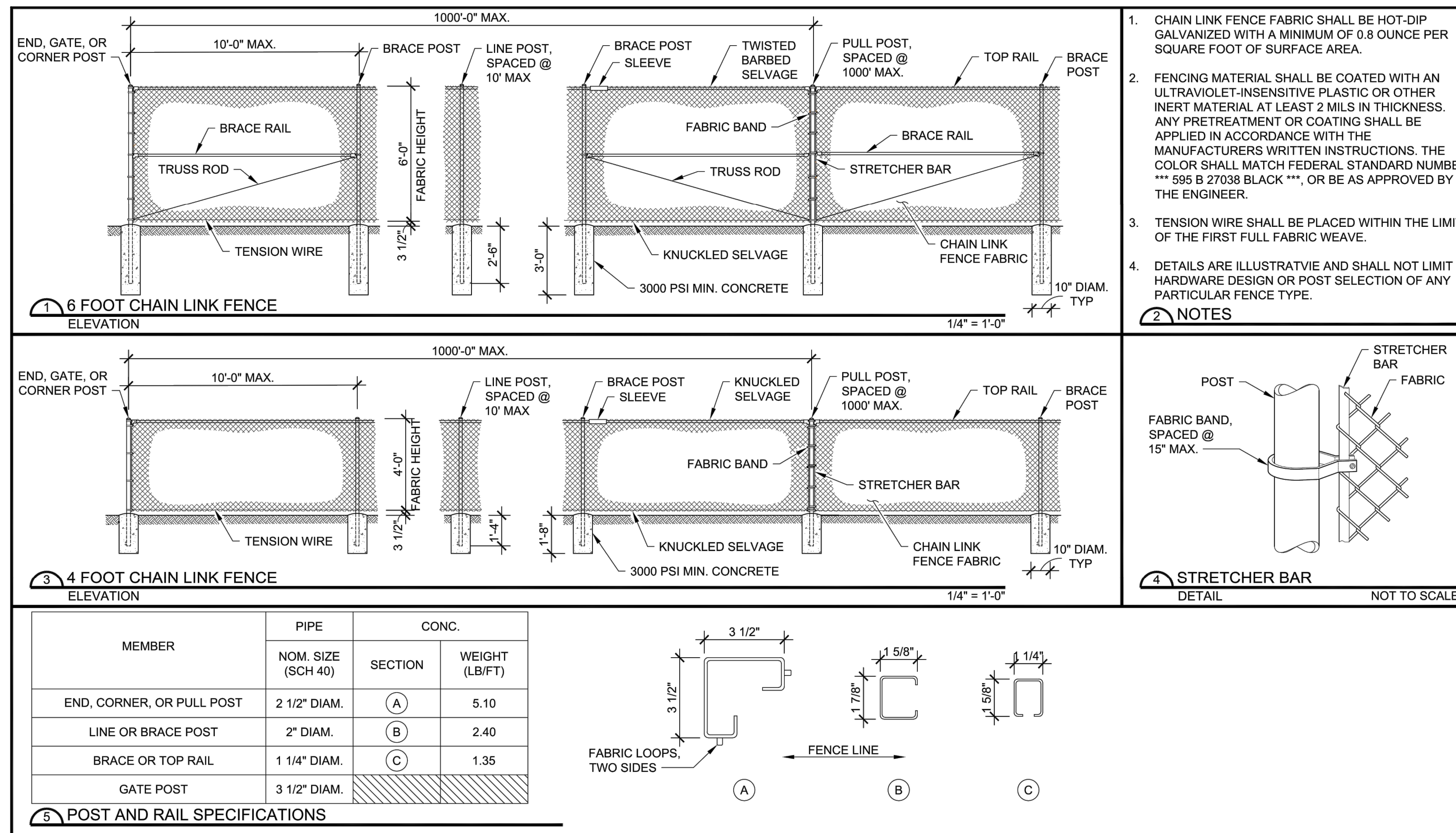
SWING GATE NOTES:

1. SWING GATES TO BE PROVIDED BY KING COUNTY PARKS AND INSTALLED BY CONTRACTOR. (2 - 12' LONG GATES. SEE SHEET CP-103 FOR LOCATION).
2. CONCRETE FOOTING SHALL HAVE 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
3. POUR FOUNDATION WHILE SWING GATE & THE LOCK-LATCH STANCHION ARE LOCKED TOGETHER.
4. SLOPE TOP OF CONCRETE TO DRAIN AWAY FROM POST. SLOPE FINISH GRADE AWAY FROM POST AT 2% MIN.
5. INSTALL 11 FOOT LONG x 2" WIDE REFLECTIVE TAPE CENTERED ON BOTH SIDES OF SWING ARM.
6. CONTRACTOR SHALL INSTALL SIGNS TO THE SWING GATE, FACING MUD MOUNTAIN ROAD TRAFFIC, SEE SHEET CP-103.
7. SINGLE SWING GATE WITH CONNECTION TO LATCH-LOCK STANCHION SHOWN. DOUBLE SWING GATE CONFIGURATION TO BE PROVIDED BY KING COUNTY PARKS AND INSTALLED BY CONTRACTOR AS DIRECTED BY THE OWNER'S PROJECT REPRESENTATIVE.



1 KING COUNTY PARKS 12 FOOT SWING GATE ASSEMBLY
 (OWNER SUPPLIED, CONTRACTOR INSTALLED)

REFERENCE: KC PARKS STANDARD DETAIL DWG # 6-001 (NTS)



2 CHAIN LINK FENCE WITH TOP RAIL

REFERENCE: KC PARKS STANDARD DETAIL DWG # 5-002 (NTS)

GRDE XX-XXXX
 KING COUNTY DLSPD APPROVAL

Review Engineer	Completion Date
Senior Engineer	Completion Date
Scott Smith, P.E. DEVELOPMENT ENGINEER	Approval Date

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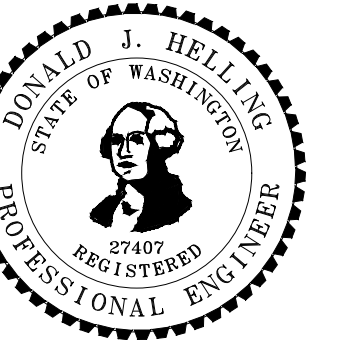
SEC. 34 & 35, T 20 N, R 6 E, W.M.



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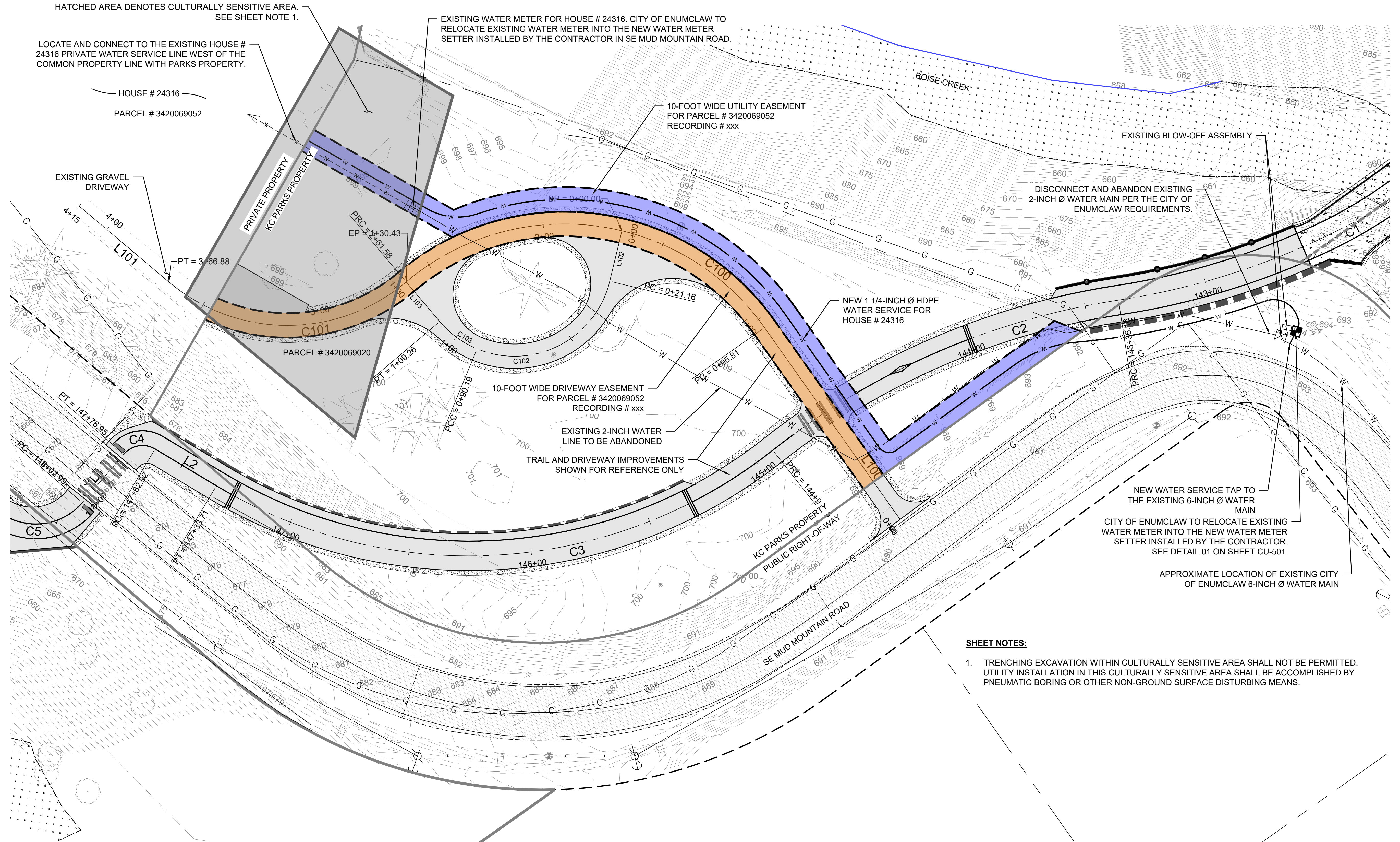
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PROJECT NO. 15095305
 SITE NO.
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 CONTRACT NO. E00115E08 - AM. 20
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SHEET TITLE
 UTILITY PLAN
 WATER SERVICE

CU-101

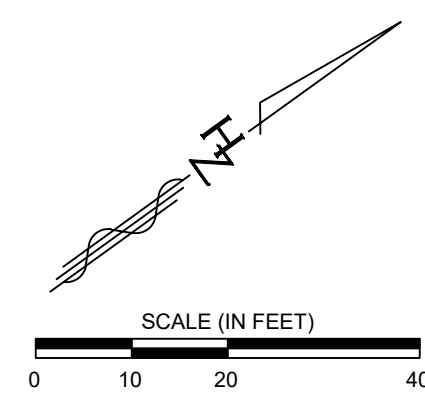


SHEET NOTES:

- TRENCHING EXCAVATION WITHIN CULTURALLY SENSITIVE AREA SHALL NOT BE PERMITTED. UTILITY INSTALLATION IN THIS CULTURALLY SENSITIVE AREA SHALL BE ACCOMPLISHED BY PNEUMATIC BORING OR OTHER NON-GROUND SURFACE DISTURBING MEANS.

GRDE XX-XXXX
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HATCHED AREA DENOTES CULTURALLY SENSITIVE AREA. SEE SHEET NOTE 1.

LOCATE AND CONNECT TO THE EXISTING HOUSE # 24316 PRIVATE WATER SERVICE LINE WEST OF THE COMMON PROPERTY LINE WITH PARKS PROPERTY.

EXISTING WATER METER FOR HOUSE # 24316. CITY OF ENUMCLAW TO RELOCATE EXISTING WATER METER INTO THE NEW WATER METER SETTER INSTALLED BY THE CONTRACTOR IN SE MUD MOUNTAIN ROAD.

10-FOOT WIDE UTILITY EASEMENT FOR PARCEL # 3420069052 RECORDING # xxx

DISCONNECT AND ABANDON EXISTING 2-INCH Ø WATER MAIN PER THE CITY OF ENUMCLAW REQUIREMENTS.

NEW 1 1/4-INCH Ø HDPE WATER SERVICE FOR HOUSE # 24316

10-FOOT WIDE DRIVEWAY EASEMENT FOR PARCEL # 3420069052 RECORDING # xxx

EXISTING 2-INCH WATER LINE TO BE ABANDONED

TRAIL AND DRIVEWAY IMPROVEMENTS SHOWN FOR REFERENCE ONLY

NEW WATER SERVICE TAP TO THE EXISTING 6-INCH Ø WATER MAIN

CITY OF ENUMCLAW TO RELOCATE EXISTING WATER METER INTO THE NEW WATER METER SETTER INSTALLED BY THE CONTRACTOR. SEE DETAIL 01 ON SHEET CU-501.

APPROXIMATE LOCATION OF EXISTING CITY OF ENUMCLAW 6-INCH Ø WATER MAIN

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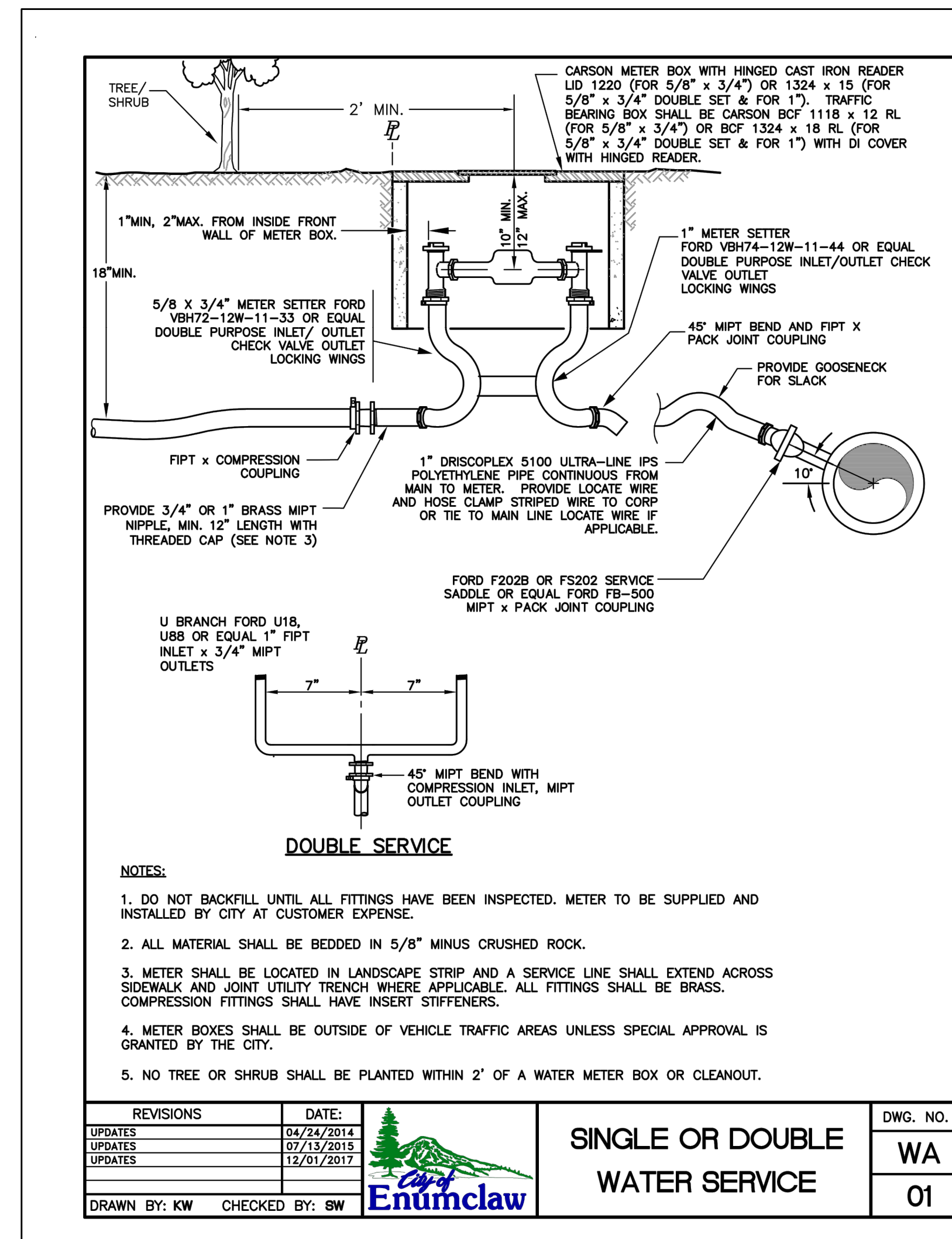
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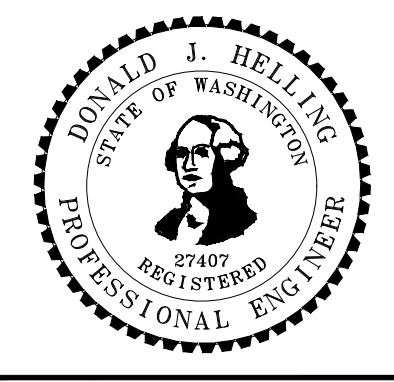
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UTILITIES DETAILS

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CU-501
52 OF 52