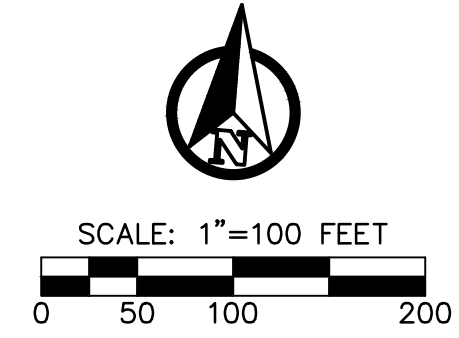


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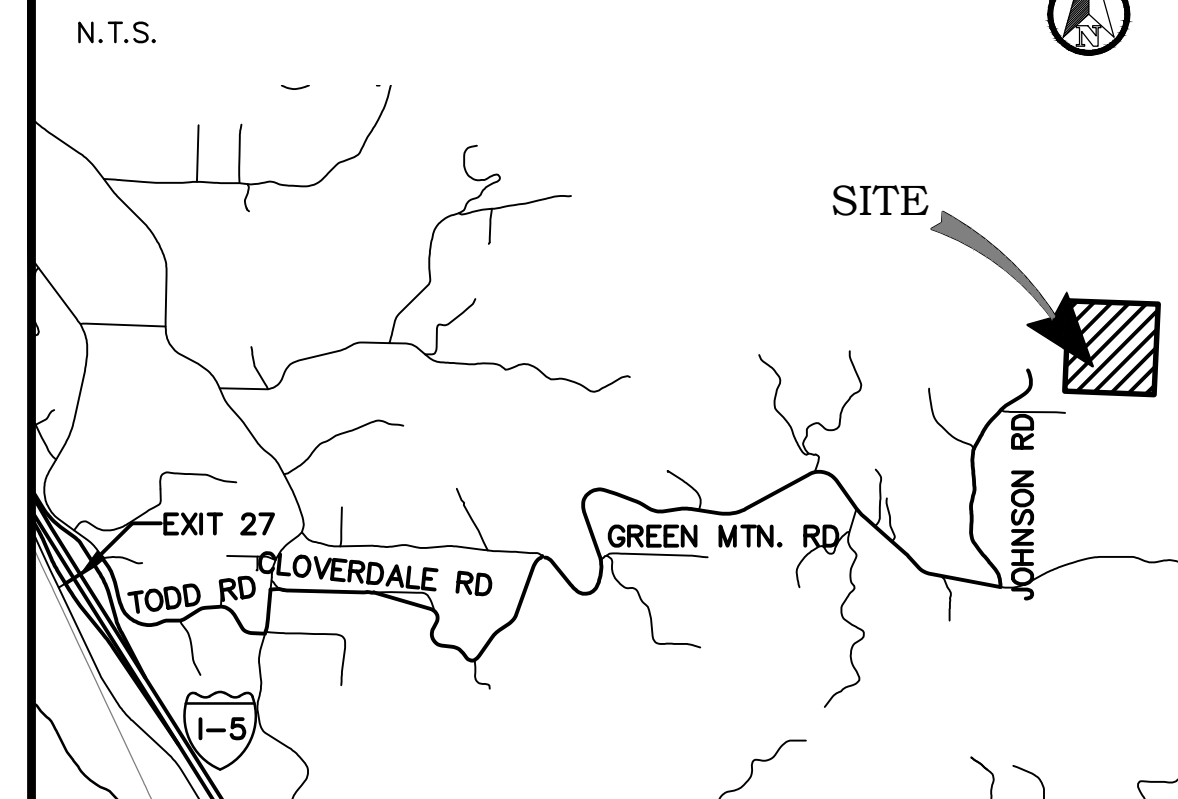
SECTION 23, TOWNSHIP 06 NORTH, RANGE 01 WEST, W.M.
COWLITZ COUNTY, WASHINGTON

LEGEND

EXISTING	PROPOSED	
— W —	— W —	WATER MAIN
— SS —	— SS —	SANITARY SEWER MAIN
— FM —	— FM —	FORCE MAIN
— SD —	— SD —	STORM MAIN
— RD —	— RD —	ROOF DRAIN
	— / —	FOOTING DRAIN
— G —	— G —	GAS LINE
— UGP —	— UGP —	POWER LINE
— T —	— T —	TELEPHONE LINE
— TV —	— CATV —	CABLE TV LINE
— — — — —	— — — — —	ROADWAY CENTERLINE
— - - - -	— - - - -	RIGHT-OF-WAY LINE
— - - - -	— - - - -	EASEMENT LINE
— — — — —	— — — — —	FRONT/BACK OF CURB
— - - - -	— - - - -	EDGE OF GRAVEL SHOULDER
— — — — —	— — — — —	EDGE OF PAVEMENT



VICINITY MAP



PROJECT INFORMATION

APPLICANT:	CHILTON LOGGING INC. CRAIG CHILTON 115 BUTTE HILL ROAD WOODLAND, WA 98674 (360) 225-0427 (360) 225-4857 FAX
PARCEL NOS:	WC2307001, WC2307002, WC2307003
SITE ADDRESS:	506, 518 & 524 JE JOHNSON RD KALAMA, WA 98625
ZONING:	UZ
SITE AREA:	39.98
GRADING:	670± CY CUT 900± CY FILL
SOILS:	HAZELDELL GRAVELLY SILT LOAM OLYMPIC SILT LOAM
SANITARY SEWER:	INDIVIDUAL SEPTICS
WATER:	INDIVIDUAL WELLS
FIRE DISTRICT:	COWLITZ COUNTY

SHEET INDEX

C0.1	CIVIL COVER AND SITE PLAN
C1.1	ROAD PLAN AND PROFILE
C1.2	ROAD PLAN AND PROFILE
C1.3	ROAD AND DRAINAGE DETAILS AND NOTES
C1.4	EROSION CONTROL DETAILS AND NOTES
C1.5	ROAD CROSS SECTIONS

SURVEY INFORMATION

LEGAL DESCRIPTION	SE 1/4 OF NE 1/4 OF SECTION 23 TOWNSHIP 6 NORTH RANGE 2 WEST, WILLAMETTE MERIDIAN.
VERTICAL DATUM	NAVD88.
BASIS OF BEARING	S02°05'37"W BETWEEN THE MONUMENTS FOUND AT THE NORTHEAST CORNER AND SOUTHEAST CORNER OF THE NE 1/4 OF SECTION 23, T6N, R1W, W.M.

GEOTECHNICAL NOTE

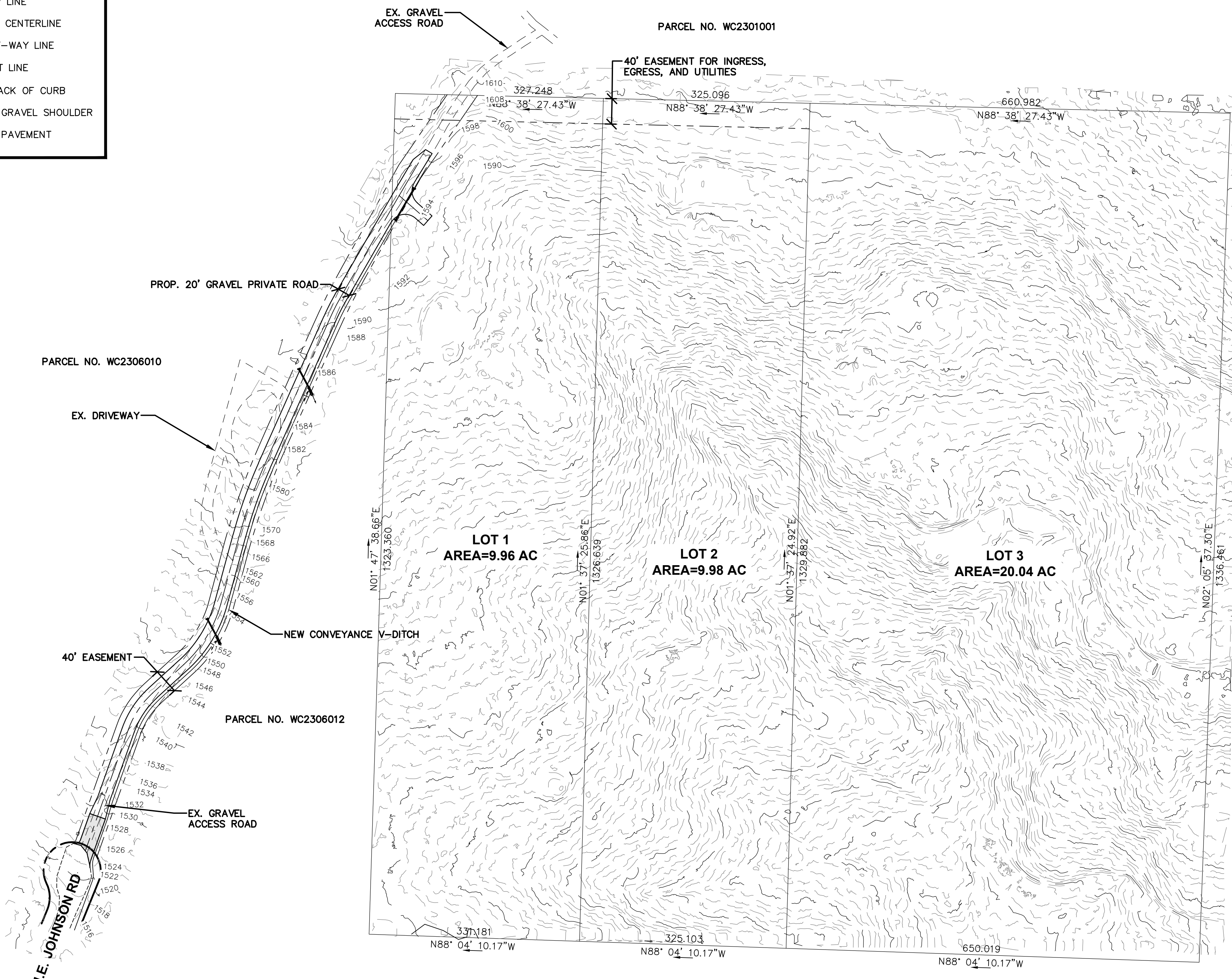
A GEOTECHNICAL REPORT WAS NOT PREPARED FOR THIS PROJECT. IN LIEU OF A REPORT, ALL RETAINING WALL CONSTRUCTION, EARTHWORK, SUB-GRADE PREPARATION, AND PAVING ACTIVITIES SHALL COMPLY WITH THE STANDARD SPECIFICATIONS AND THE IBC.

WORK IN COUNTY RIGHT-OF-WAY

CONTRACTOR TO OBTAIN RIGHT OF WAY PERMIT PRIOR TO ANY WORK WITHIN COUNTY RIGHT OF WAY. ALL WORK WITHIN COUNTY RIGHT OF WAY SHALL ADHERE TO COUNTY STANDARDS AS OUTLINED IN THE RIGHT OF WAY PERMIT.

TOPOGRAPHIC NOTE

TOPOGRAPHIC INFORMATION DEPICTED HEREON WAS PROVIDED BY CANDU ENVIRONMENTAL. TOPOGRAPHIC INFORMATION WAS NOT FIELD VERIFIED BY RB ENGINEERING.

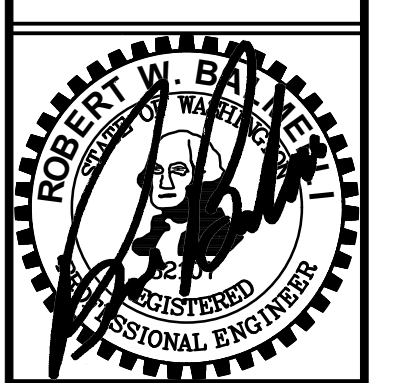


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CHECKED BY: RWB	RWB
DATE: 5/10/2023	
SCALE: 1" = 100'	

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COWLITZ COUNTY WA.

CIVIL COVER AND SITE PLAN



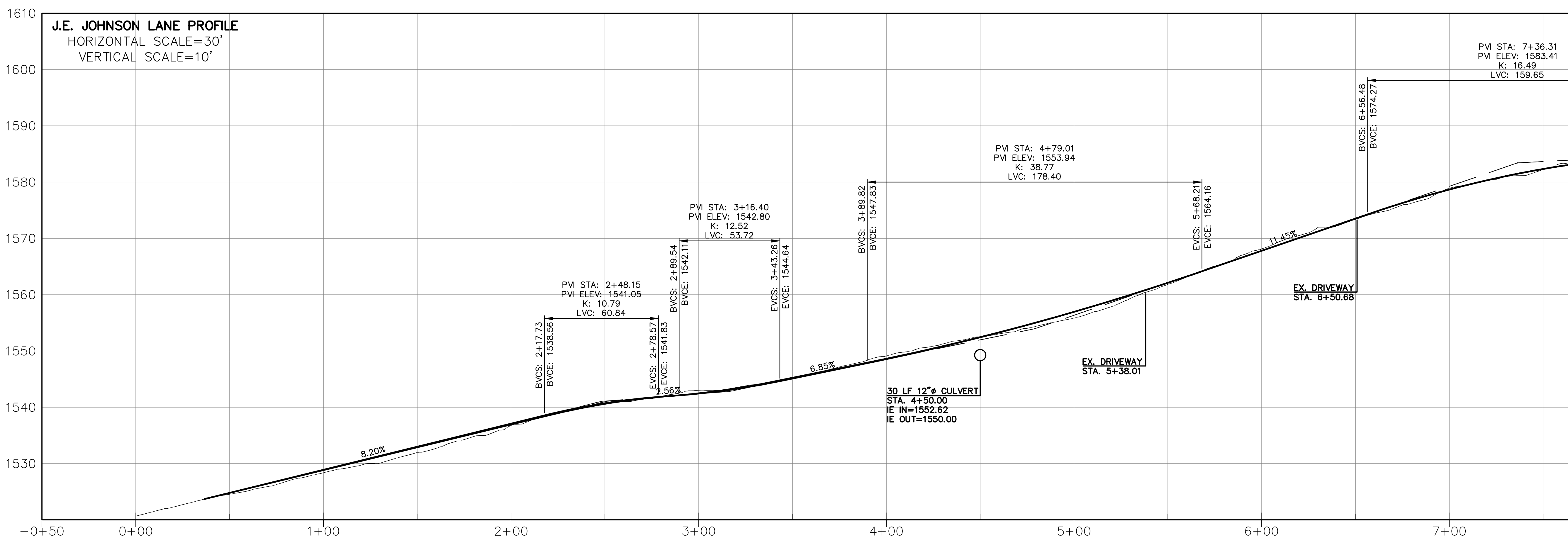
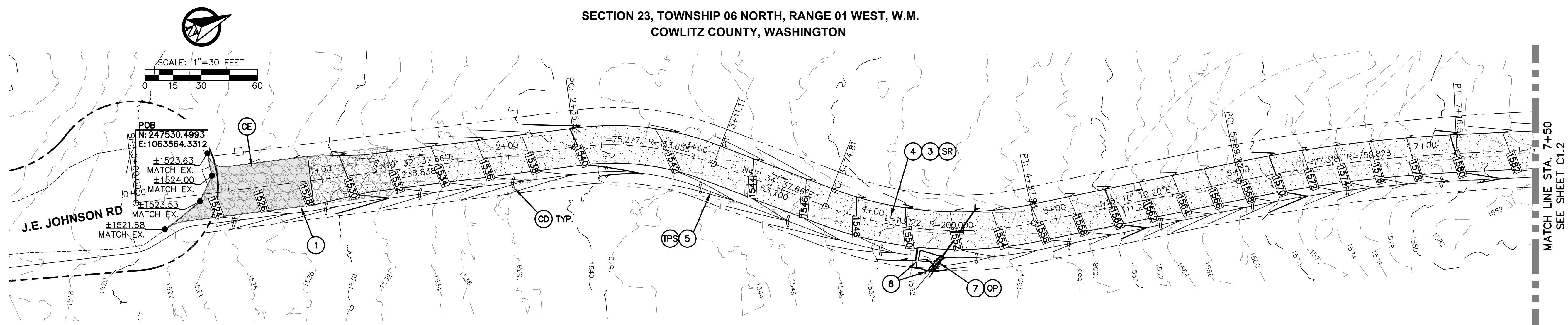
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EMAIL: info@rbengineers.com
P.O. Box 923
CHEHALIS, WA 98532

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APPROVED FOR CONSTRUCTION
BY: _____ DATE: _____
DIRECTOR OF PUBLIC WORKS,
COWLITZ COUNTY, WA.
APPROVAL EXPIRES: _____ PW# _____

JOB NUMBER
22117
DRAWING NAME
22117_CO.1_COVR
C0.1
1 OF 6

SECTION 23, TOWNSHIP 06 NORTH, RANGE 01 WEST, W.M.
COWLITZ COUNTY, WASHINGTON



COWLITZ COUNTY ROAD CONSTRUCTION NOTES:

- ① CONSTRUCT PRIVATE ROAD APPROACH PER COWLITZ COUNTY DETAIL CC-1319 ON SHEET C1.3. ROAD APPROACH MUST BE CONSTRUCTED TO THE EXACT DETAIL DIMENSIONS AND PROFILE GRADES. MAXIMUM CHANGE IN GRADE FROM THE EXISTING PUBLIC ROAD CROSS SLOPE SHALL BE MINUS 2%. APPROACH SHALL HAVE MINIMUM 24 FEET OF ASPHALT WITH 1 FOOT GRAVEL SHOULDER UP TO 50 FEET FROM THE EXISTING PUBLIC ROAD EDGE OF PAVEMENT. PROVIDE MINIMUM 25-FOOT CURB RADIUS.
- ② INSTALL 53 LF OF 12-INCH CPP CULVERT. MITER ENDS OF PIPE TO MATCH SIDE SLOPE. PROVIDE MINIMUM 1-FOOT OF COVER OVER PIPE. CULVERT SHALL NOT HAVE ANY BENDS AND MUST PASS COUNTY FULL MOON TEST. CONTRACT SHALL CALL FOR COUNTY INSPECTION PRIOR TO PAVING THE ACCESS APPROACH.

- ③ GRADE 20 FOOT WIDE TYPE C ROAD SUBGRADE PER PLAN AND PROFILE DESIGN. SUBGRADE SHALL BE PROOF ROLLED BY LOADED DUMP TRUCK PRIOR TO PLACING BASE ROCK. CONTACT COWLITZ COUNTY BUILDING AND PLANNING AT 360-577-3031 FOR SUBGRADE INSPECTION PRIOR TO ROCK PLACEMENT. CONTACT ENGINEER AT 360.740.8919 TO SCHEDULE PROOF ROLL INSPECTION.
- ④ CONSTRUCT NEW TYPE C ROAD SECTION PER DETAIL ON SHEET C1.3. COMPACT BASE ROCK TO 95% MAXIMUM DENSITY. CONTRACTOR SHALL ENSURE A TRUE 20 FOOT WIDE GRAVEL ROAD SECTION IS PROVIDED PRIOR TO CALLING FOR FINAL INSPECTION.
- ⑤ CONSTRUCT ROADSIDE CONVEYANCE V-DITCH PER PLAN. INSTALL CHECK DAMS AS SHOWN AND PER DETAIL ON SHEET C1.3. CHECK DAMS SHALL BE LOW IN THE MIDDLE AND HIGHER ALONG THE DITCH SIDESLOPES. PLACE CHECK DAMS EVERY 50 FEET ON CENTER FOR ALL SLOPES OVER 5% IN GRADE. HYDROSEED EXPOSED SOILS AFTER FINAL GRADING AND CHECK DAM INSTALLATION.

- ⑥ CONSTRUCT NEW HAMMERHEAD EMERGENCY TURNAROUND PER DETAIL ON C1.3. MAXIMUM SPACING FOR TURN AROUNDS IS 1000 LF.
- ⑦ INSTALL CULVERT DIPERSAL ROCK PAD PER DETAIL ON SHEET C1.4.
- ⑧ INSTALL BERM AND EXCAVATE DITCH TO RELEASE RUNOFF FOR DISPERSION.
- ⑨ CONTRACTOR SHALL CALL AND SCHEDULE ROAD INSPECTION WITH COWLITZ COUNTY PRIOR TO FINAL APPROVAL.
- ⑩ THE DEVELOPER SHALL BE RESPONSIBLE FOR FABRICATION AND ERECTING STREET NAME SIGN AT THE INTERSECTION OF TWO PRIVATE ROADS.

WSDOE BMP LIST:

- CONTRACTOR SHALL HAVE A COPY OF THE PROJECT SWPPP ONSITE AT ALL TIMES DURING CONSTRUCTION. SEE SWPPP FOR LISTED BMPS.
- ③E CONSTRUCTION ENTRANCE - BMP C105
CONTRACTOR SHALL INSTALL 15 FT WIDE CONSTRUCTION ENTRANCE/EXIT USING 4 TO 8 INCH MINUS QUARRY ROCK 12 INCHES THICK PER WSDOE FIGURE II-4.2.12. CRUSHED CONCRETE WILL NOT BE ALLOWED. PLACE A WOVEN GEOTEXTILE WITH A GRAB TENSILE STRENGTH OF 200 PSI IF SOFT SOILS ARE ENCOUNTERED. PROVIDE LENGTH PER PLAN. CONTRACTOR SHALL REMOVE ALL SILT FENCING ONCE THE PROJECT IS COMPLETED OR DETERMINED TO BE STABILIZED BY THE PROJECT ENGINEER.
- ③S TEMPORARY AND PERMANENT SEEDING - BMP C120
CONTRACTOR TO PROVIDE APPLY TEMPORARY AND PERMANENT HYDRO-SEEDING AS OUTLINED ON THE APPROVED TESC. PROVIDE SEED MIXES AT A RATE OF 120 POUNDS PER ACRE. SEED MIXES TO USE ARE PER APPLICABLE WSDOE TABLE 4.1.2 TEMPORARY EROSION CONTROL SEED, 4.1.3 LANDSCAPING SEED, 4.1.4 LOW-GROWING TURF SEED, 4.1.5 BIO-SWALE SEED, 4.1.6 WET AREA SEED AND 4.1.7 MEADOW SEED MIX. USE TYPICAL FERTILIZER OF 10-4-6 NPK AT A RATE OF 90 POUNDS PER ACRE AND MULCH PER BMP C121. ALL SLOPE AREAS SHALL BE SCARIFIED WITH TRACKED VEHICLE PERPENDICULAR TO THE SLOPE PRIOR TO SEEDING SLOPE.
- ③R SURFACING ROUGHENING - BMP C130
ALL CUT AND FILL SLOPE AREAS STEEPING THAN 10:1 SLOPE SHALL BE SCARIFIED WITH TRACKED VEHICLE PERPENDICULAR TO THE SLOPE FOR TEMPORARY AND PERMANENT SEEDING. SEE WSDOE FIGURE II-4.1.5 ON THE APPROVED TESC PLANS
- ③D CHECK DAMS - BMP C207
CONTRACTOR SHALL PROVIDE CHECK DAMS USING 6 INCH MINUS QUARRY ROCK AND INSTALL PER WSDOE FIGURE II-4.2.7.
- ③P OUTLET PROTECTION - BMP C209
CONTRACTOR TO PROVIDE OUTLET PROTECTION AT ALL LOCATION IDENTIFIED ON THE APPROVED TESC PLAN. OUTLET PROTECTION SHALL CONSIST OF 8-INCH MINUS QUARRY ROCK PADS A MINIMUM OF 4- FEET WIDE BY 6- FEET LONG.
- ③F SILT FENCING - BMP C233
CONTRACTOR SHALL INSTALL ALL SILT FENCING PER APPROVED TESC PLAN AND WSDOE FIGURE II-4.2.12. SILT FENCING ALONG THE CLEARING LIMITS SHALL BE ORANGE IN COLOR. SEE PROJECT SWPPP FOR SILT FENCING SPECIFICATIONS.

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COWLITZ COUNTY WA.

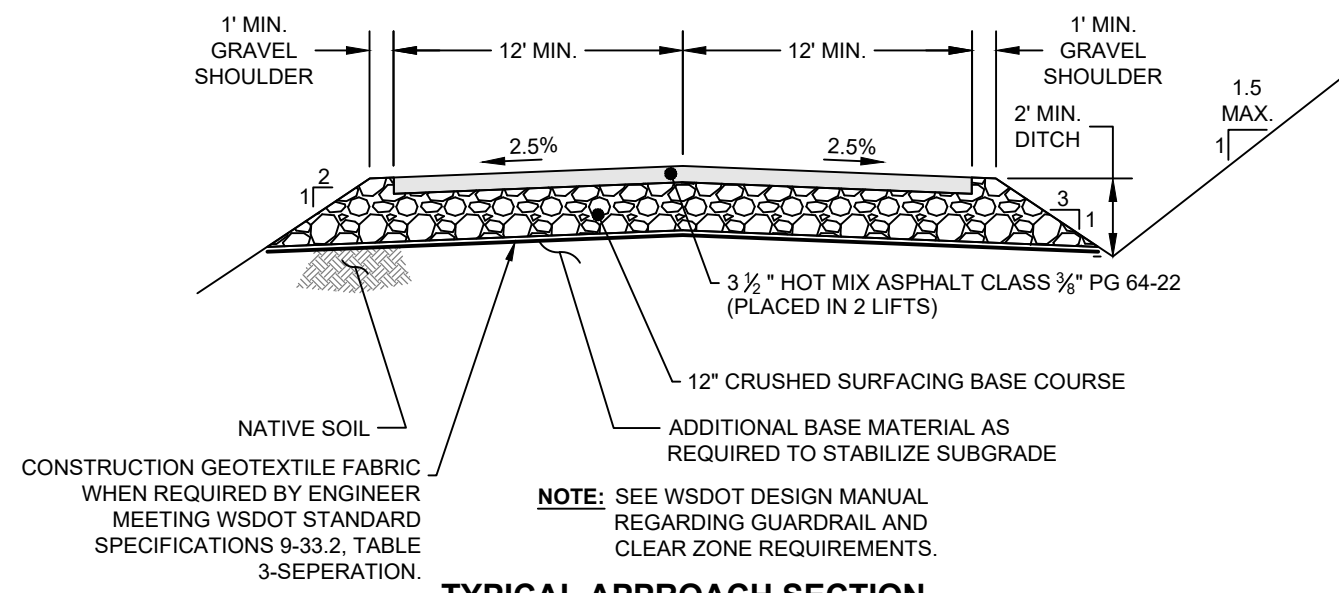
ROAD PLAN AND PROFILE

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P.O. Box 923
CHEHALIS, WA 98532

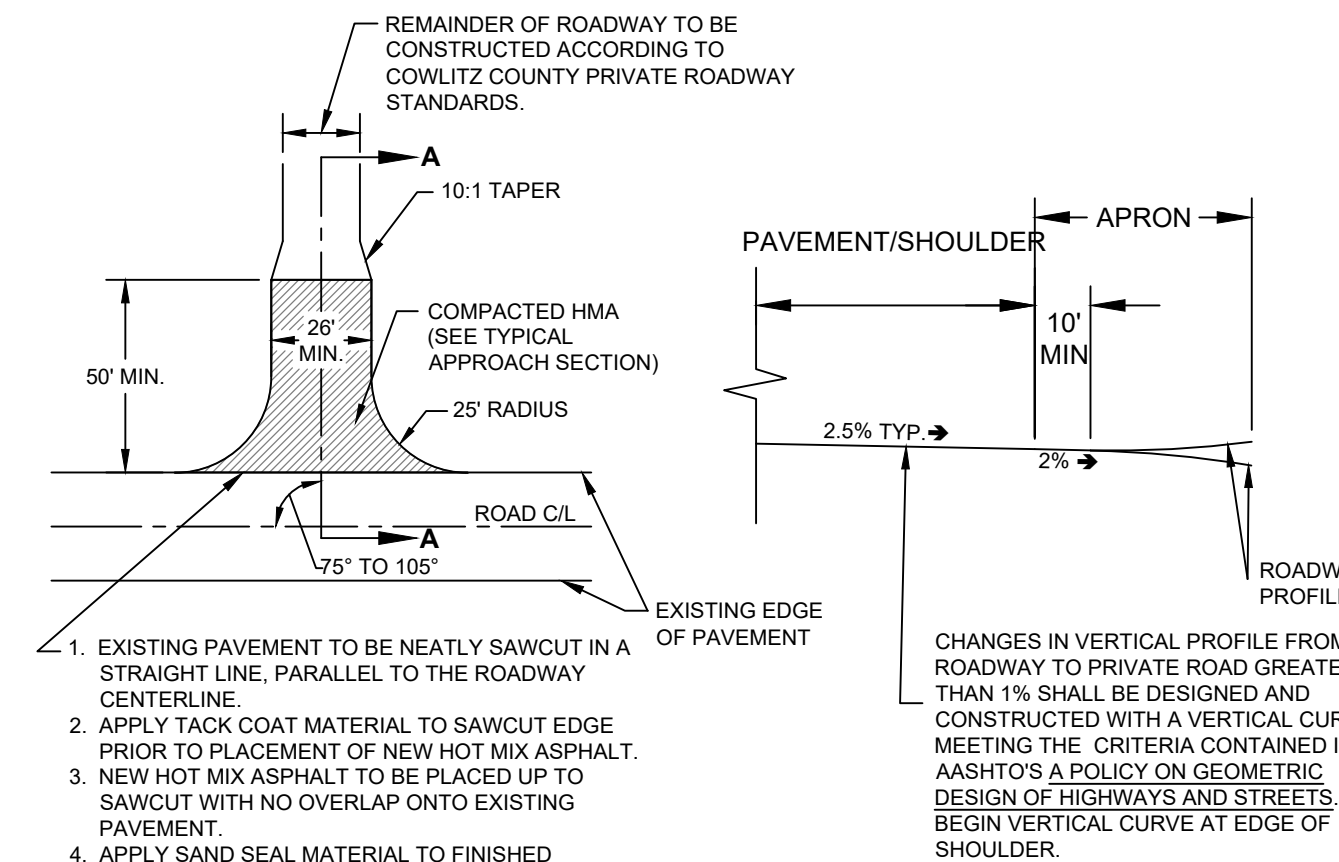
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C1.1
2 OF 6

ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE LATEST EDITION OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.



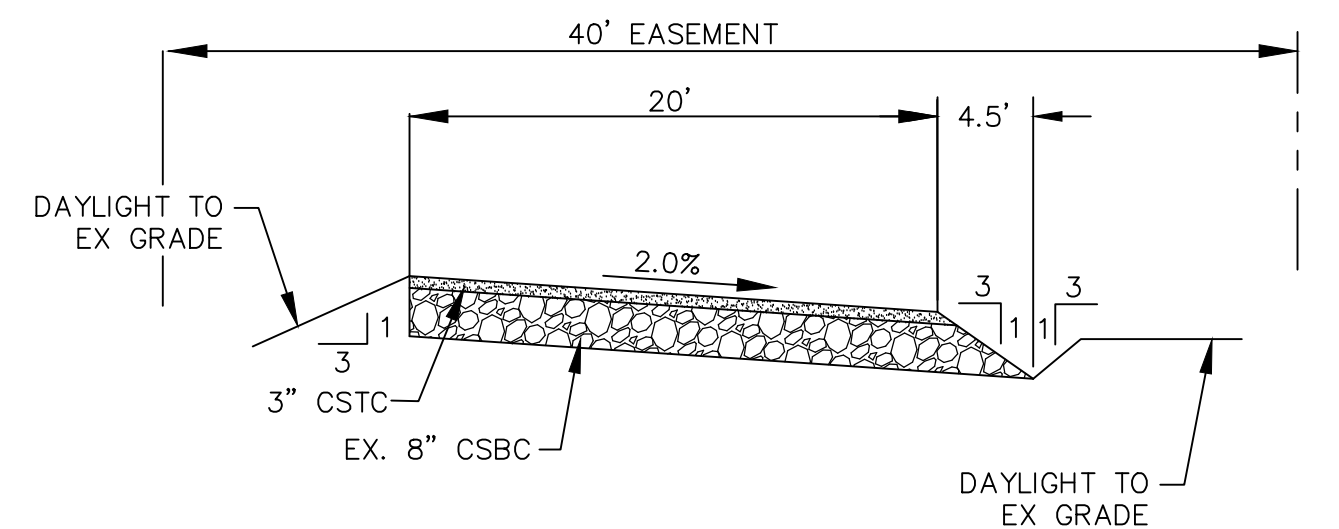
TYPICAL APPROACH SECTION



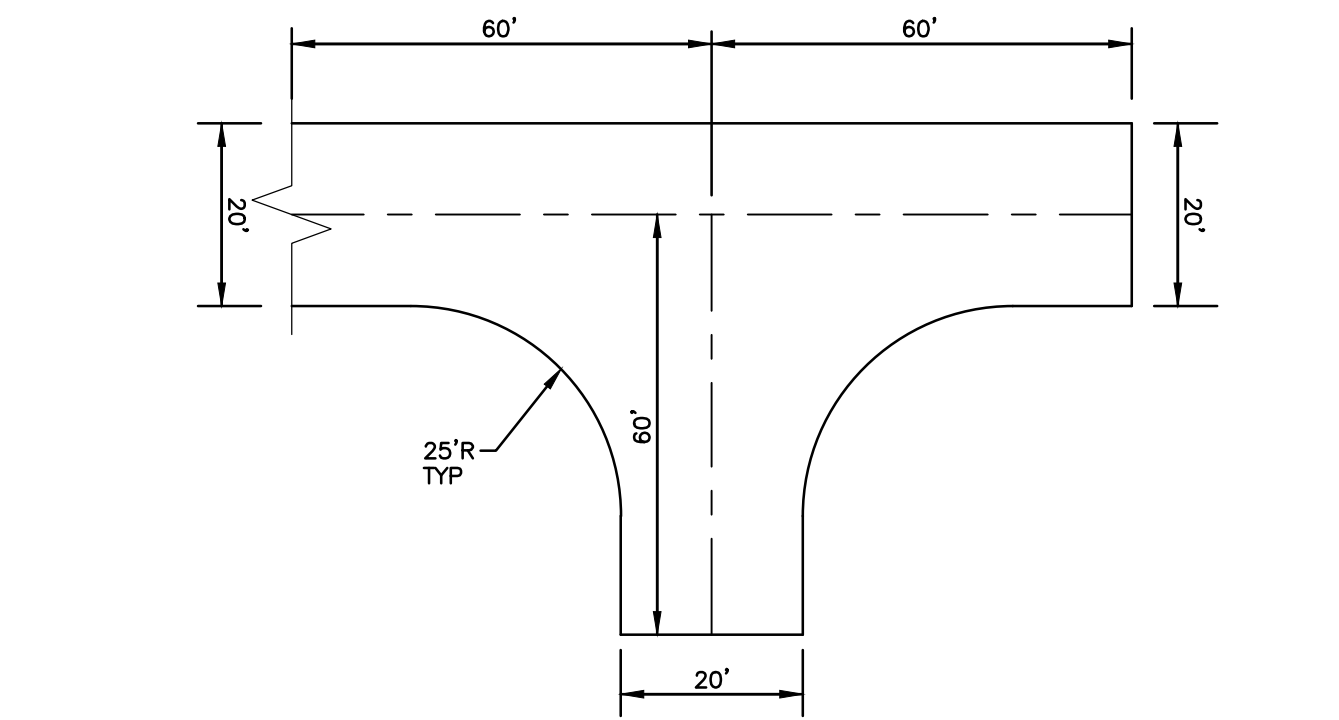
TYPICAL APRON DETAIL

SECTION A - A ACCESS POINT GRADE SECTION

WLB DESIGNED BY SMK CHECKED BY BAB APPROVED BY 08/16/19 DATE	PRIVATE ROADWAY APPROACH N T S	COWLITZ COUNTY DEPARTMENT OF PUBLIC WORKS 1660 12th AVE. SOUTH KELSO, WASHINGTON 98626 DRAWING-CC-1319	SHEET 1 OF 1
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CLASS 'C' TYPICAL CROSS-SLOPED ROAD SECTION N.T.S.	RB ENGINEERING RD_CRSS_SLPD.dwg
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120' TYPICAL HAMMERHEAD N.T.S.	RB ENGINEERING HAMMERHEAD.dwg
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STANDARD ROAD CONSTRUCTION NOTES:

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE STATE OF WASHINGTON, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND LEWIS COUNTY ROAD STANDARDS.

INSPECTION OF THE STORM DRAIN SYSTEM MUST BE CALLED FOR BEFORE ANY BACKFILL IS PLACED FOR THE DRAIN SYSTEM.

CATCH BASINS SHALL BE TYPE 1 WITH B-2A, WSDOT STANDARD PLANS, FRAME AND GRATE UNLESS OTHERWISE NOTED. THE OUTSIDE EDGE OF THE CATCH BASIN SHALL BE PLACED AT THE INTERSECTION OF THE CURB AND GUTTER AND 0.010' TO 0.015' BELOW FINISHED GRADE, OR IN THE GUTTER LINE OF THE ROLLED EDGE SECTION.

IF ADEQUATE INSPECTION IS NOT CALLED FOR BEFORE COMPLETION OF THE ROADWAY CONSTRUCTION, IT MAY BE NECESSARY FOR CORE DRILLING AND TESTING TO BE PERFORMED TO ASSURE AN ACCEPTABLE QUALITY OF ROADWAY. WHEN CORE DRILLING IS FOUND TO BE NECESSARY, THE APPLICANT WILL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED.

IT WILL BE THE APPLICANT'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES IN ORDER TO ASSURE THAT ALL LINES, PIPES, POLES AND OTHER APPURTENANCES AREA PROPERLY LOCATED AND THEIR INSTALLATION IS COORDINATED WITH THE ROAD CONSTRUCTION. ALL UTILITY RELOCATION WORK SHALL BE AT THE EXPENSE OF THE APPLICANT AND MUST BE IN ACCORDANCE WITH LEWIS COUNTY ROAD STANDARDS PRIOR TO ROAD ACCEPTANCE.

CULVERT PIPE SHALL BE CONCRETE, ALUMINUM OR PLASTIC 12-INCH DIAMETER MINIMUM PIPE WITH BEVELED ENDS UNLESS OTHERWISE NOTED. BEVELED ENDS SHALL BE A MINIMUM OF 3:1 IN THE DITCH LINE OR MATCH THE SLOPE IN A CUT OR FILL SECTION.

BURIED UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION. THE APPLICANT SHALL HAVE THE UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION.

ONSITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE APPLICANT AND BE IN PLACE PRIOR TO CONSTRUCTION. ANY PROBLEMS OCCURRING BEFORE FINAL ACCEPTANCE BY LEWIS COUNTY AND WITHIN 24 MONTHS THEREAFTER SHALL BE CORRECTED BY THE APPLICANT.

ANY REVISIONS TO PLANS MUST BE MADE BY THE PROJECT ENGINEER AND APPROVED BY THE COUNTY PRIOR TO ANY IMPLEMENTATION IN THE FIELD.

ALL PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD AND THE LEWIS COUNTY STANDARD PAVEMENT MARKING DETAILS.

BEFORE STRIPING TAKES PLACE THE APPLICANT SHALL CONTACT THE LEWIS COUNTY TRAFFIC DIVISION FOR COORDINATION OF THE STRIPING.

A COPY OF THE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

LEWIS COUNTY SHALL BE NOTIFIED 72 HOURS BEFORE CONSTRUCTION IS STARTED. THE APPLICANT SHALL BE RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION CONFERENCE WITH THE COUNTY. OTHER JURISDICTIONS, PROJECT ENGINEER, UTILITY COMPANIES, SUBCONTRACTORS AND OTHER NECESSARY PARTIES TO THE PROJECT SHALL BE PRESENT AT THE PRE-CONSTRUCTION CONFERENCE.

SLOPES SHALL BE STABILIZED TO PREVENT EROSION. IN CASE EROSION OCCURS IN DITCHES, DITCH LINING IS TO BE PROVIDED AS REQUESTED AND SPECIFIED BY THE COUNTY.

ALL TYPE 2 CATCH BASINS OVER 4 FEET IN HEIGHT SHALL HAVE STANDARD STEPS.

WHERE NEWLY CONSTRUCTED PAVING MEETS EXISTING PAVING, THE APPLICANT SHALL OVERLAY AND FEATHER NEW PAVEMENT TO PROVIDE A SMOOTH TRANSITION FROM EXISTING TO PROPOSED PAVING. APPLICATION OF A THIN PAINT COAT OF EMULSIFIED ASPHALT SHALL BE APPLIED TO INSURE PROPER BONDING.

THE COMPLETED SURFACE OF ALL COURSES SHALL BE OF UNIFORM TEXTURE, SMOOTH, UNIFORM AS TO CROWN AND GRADE, AND FREE FROM DEFECTS OF ALL KINDS. THE COMPLETED SURFACE OF THE WEARING COURSE SHALL NOT VARY MORE THE 1/8 INCH FROM THE LOWER EDGE OF A 10 FOOT STRAIGHT EDGE PLACED ON THE SURFACE PARALLEL TO THE CENTERLINE. THE TRAVERSE SLOPE OF THE COMPLETED SURFACE OF THE WEARING COURSE SHALL VARY NOT MORE THE 1/4 INCH IN 10 FEET FROM THE RATE OF TRAVERSE SLOPE SHOWN ON THE PLANS.

MATERIALS SAMPLING AND TESTING SHALL BE AT A FREQUENCY AND MAGNITUDE AS SPECIFIED IN THE STANDARD SPECIFICATIONS OR DETERMINED BY THE COUNTY ENGINEER. IN THE CASE OF PLAT ROADS, TESTING AND SAMPLING SHALL BE PERFORMED BY A PRIVATE TESTING LABORATORY. CERTIFIED TEST REPORTS SHALL BE FURNISHED FOR ALL TESTS PERFORMED BY PRIVATE TESTING LABORATORIES.

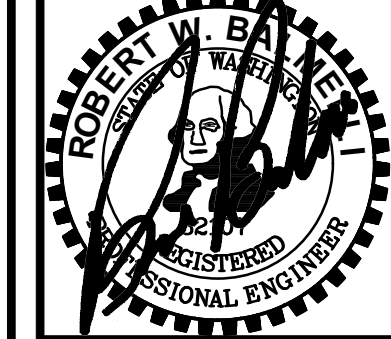
ALL UTILITY WORK WITHIN EXISTING PAVEMENT REQUIRES A MINIMUM ROADWAY RECONSTRUCTION FROM THE CENTERLINE, TO INCLUDE GRINDING THE EXISTING PAVEMENT AND REPLACING IT WITH A MINIMUM 0.17' PAVEMENT.

NO.	DATE	REVISION

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DATE: 5/10/2023	NO. SCALE

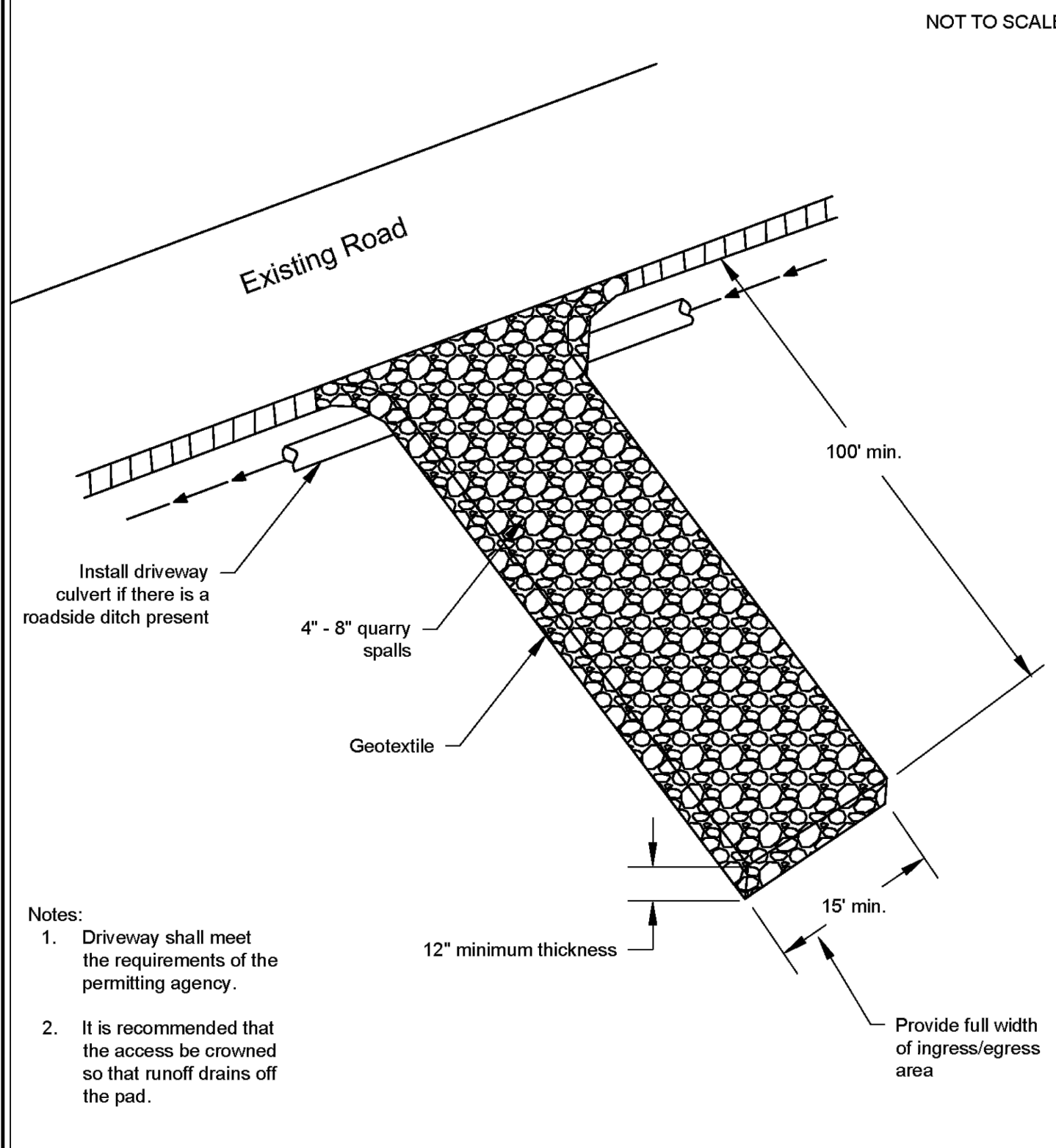
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COWLITZ COUNTY WA.

ROAD AND DRAINAGE
DETAILS AND NOTES



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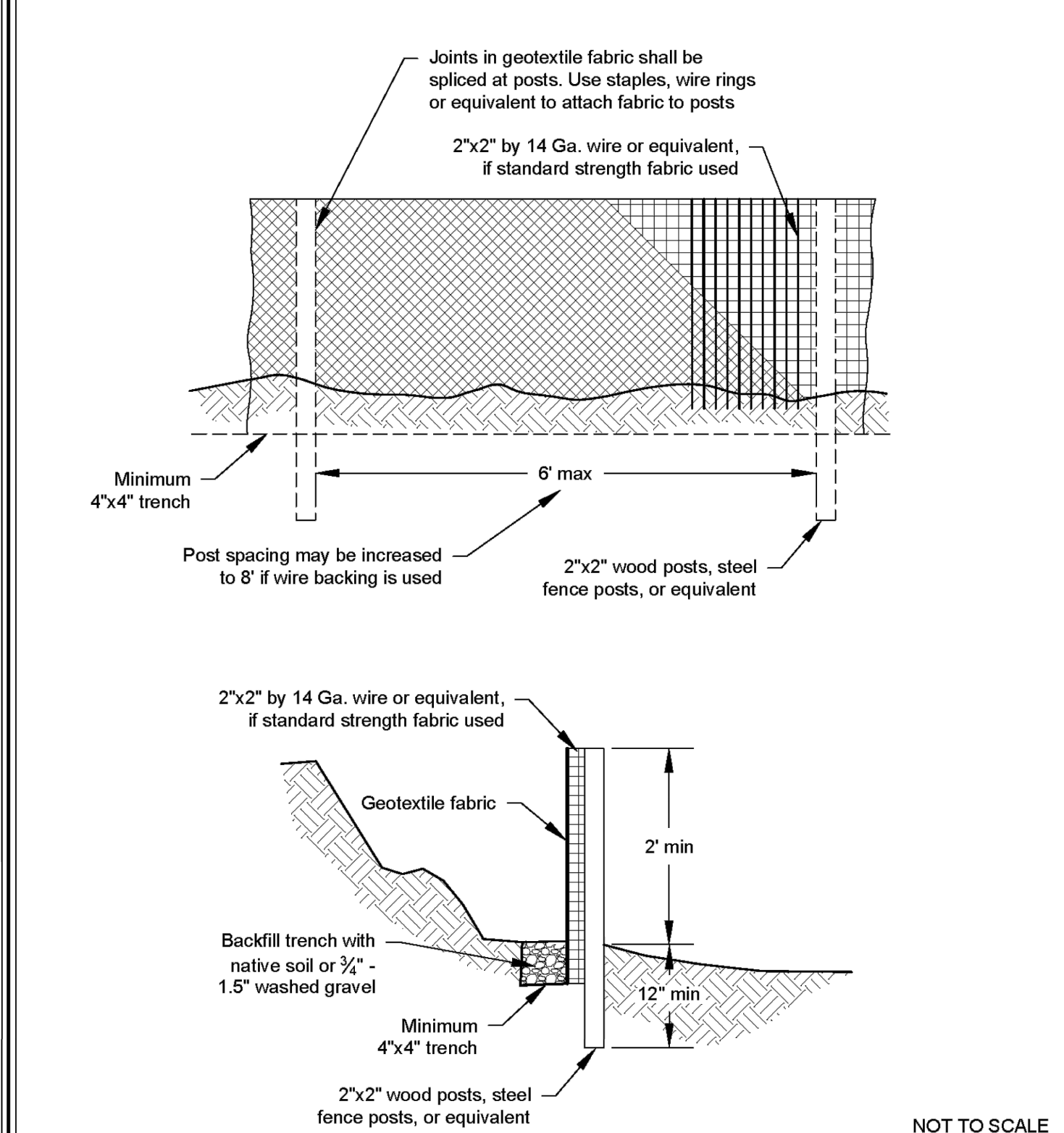
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C1.3
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Stabilized Construction Access
Revised June 2018

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State of Washington

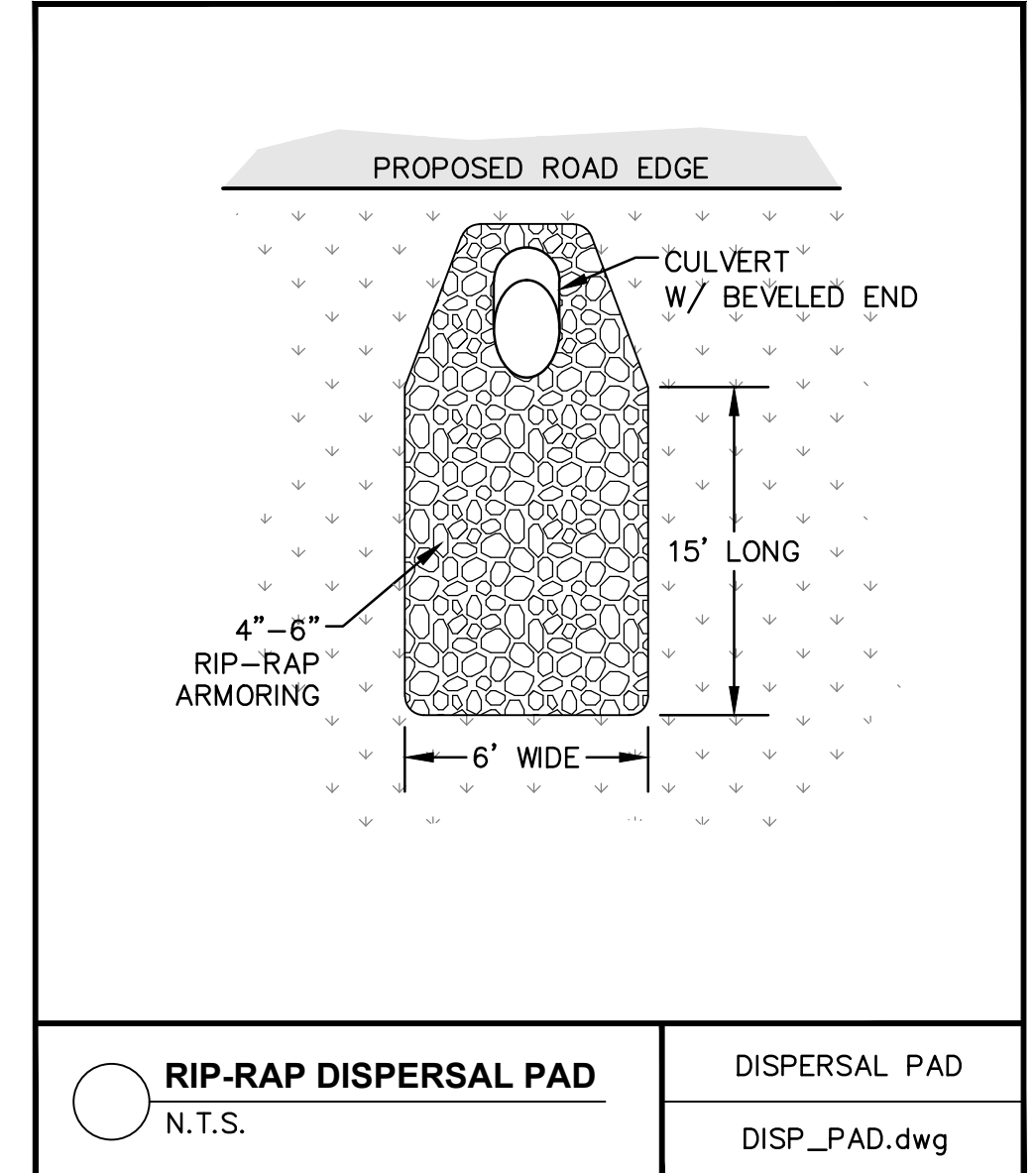
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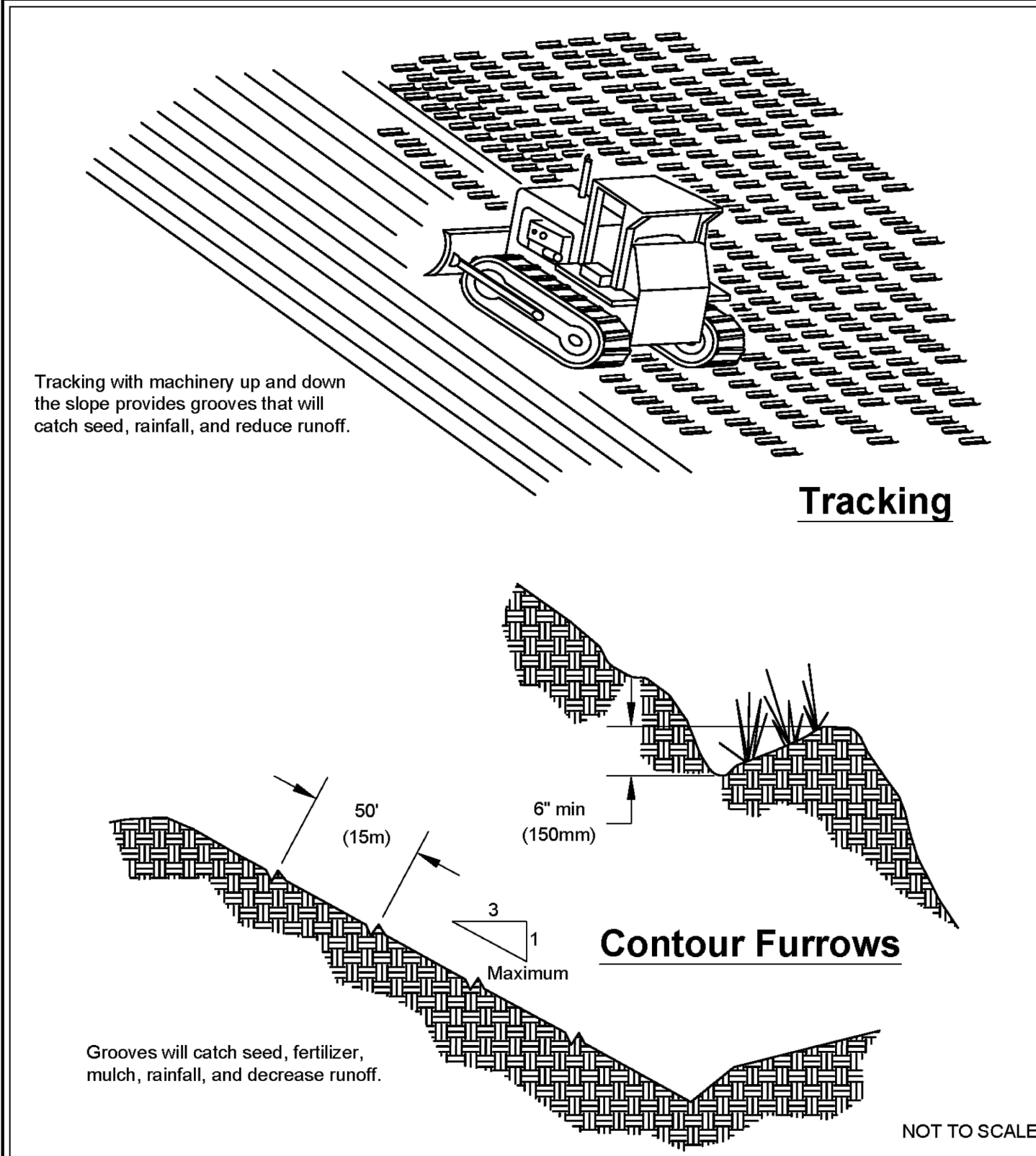
GENERAL EROSION CONTROL NOTES:

EROSION CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS ON THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. NO SILTATION OF EXISTING OR PROPOSED DRAINAGE FACILITIES SHALL BE ALLOWED. CARE SHALL BE TAKEN TO PREVENT MIGRATION OF SILTS TO OFF-SITE PROPERTIES. ALL DISTURBED EARTH CAUSED BY CONTRACTOR'S ACTIVITIES SHALL BE HYDROSEEDDED.

STABILIZATION OF ALL EXPOSED AREAS WILL BE REQUIRED WITHIN 48 HOURS AFTER REACHING FINISHED GRADE.

AREAS OVER 5000 SQUARE FEET TO BE PAVED MUST BE PROVIDED WITH A CRUSHED ROCK SUBBASE OR OTHER APPROVED ARMORING WITHIN A MINIMUM OF SEVEN (7) DAYS AFTER REACHING GRADE.

HYDROSEED OR PROVIDE PLASTIC COVERING OVER ALL PROPOSED EXPOSED LANDSCAPED AREAS IMMEDIATELY AFTER CONSTRUCTION.



Surface Roughening by Tracking and Contour Furrows
Revised June 2016

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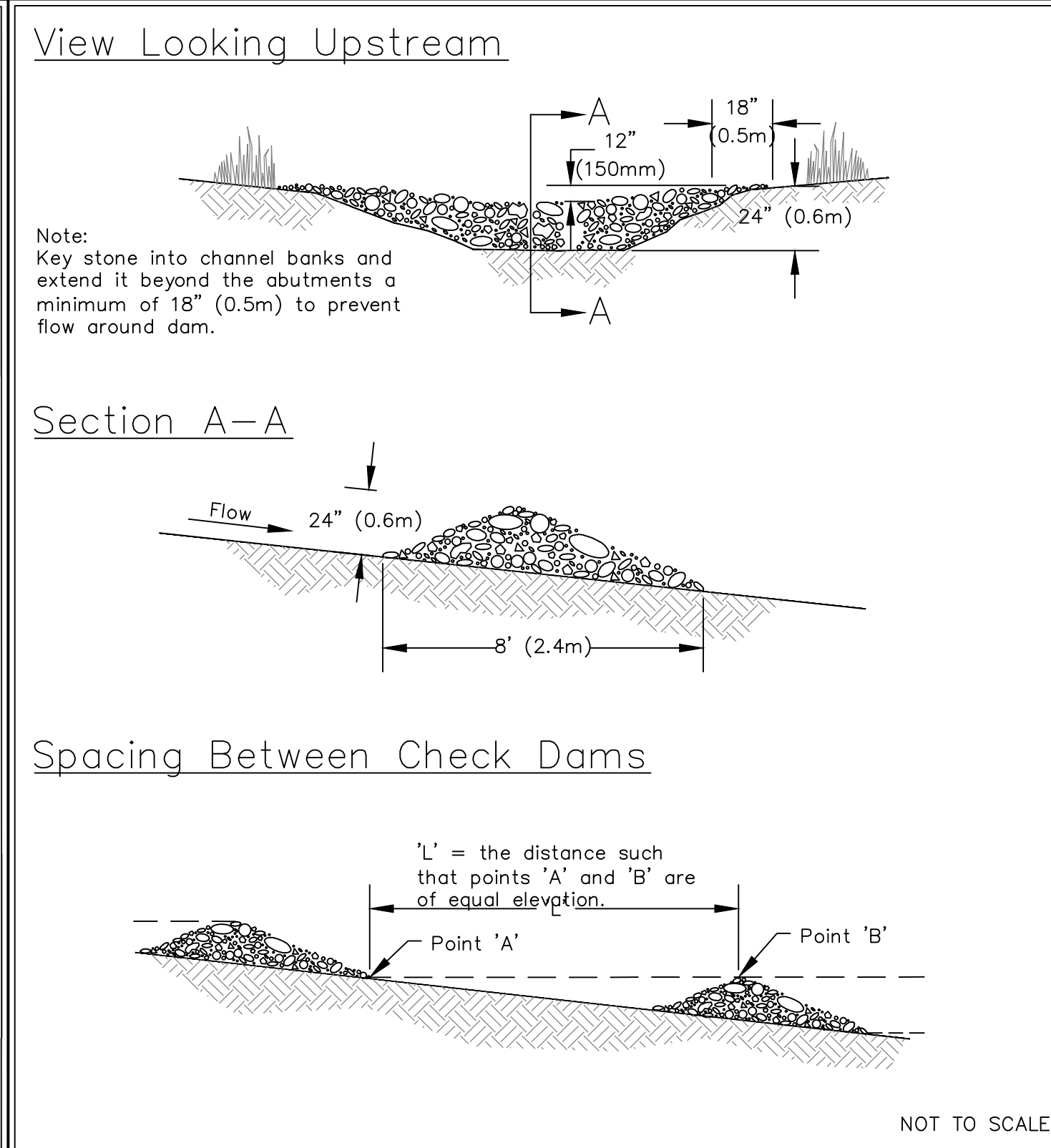
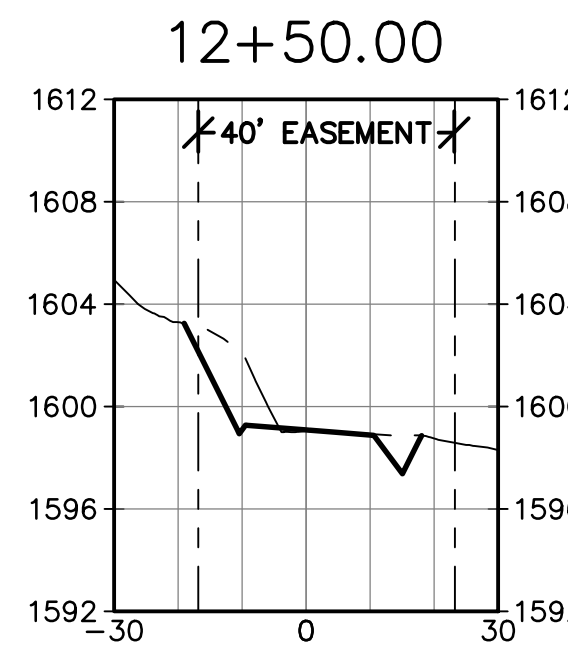
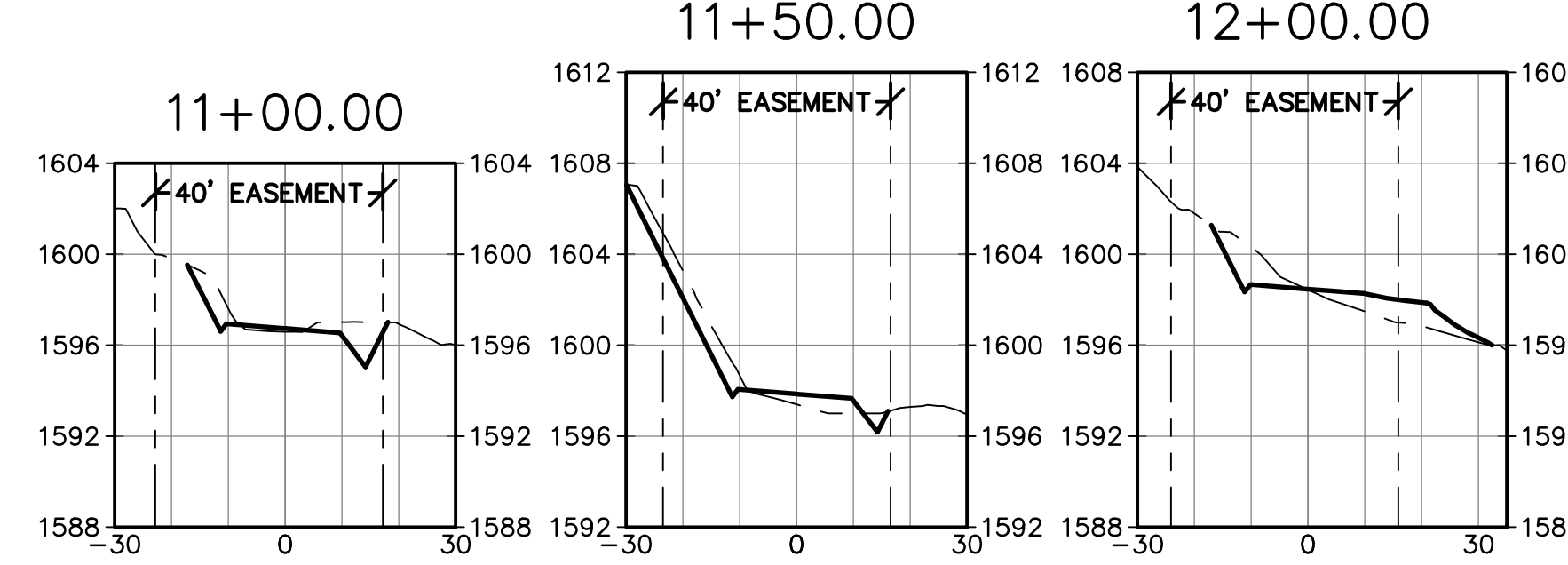
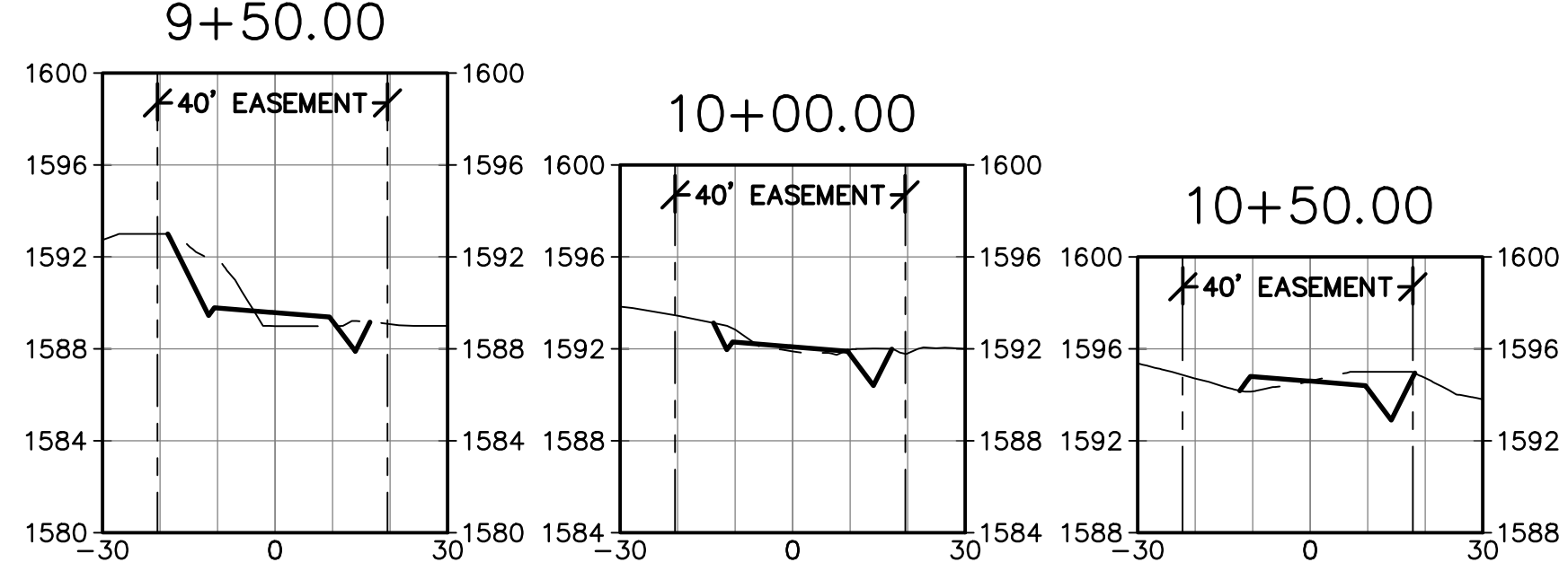
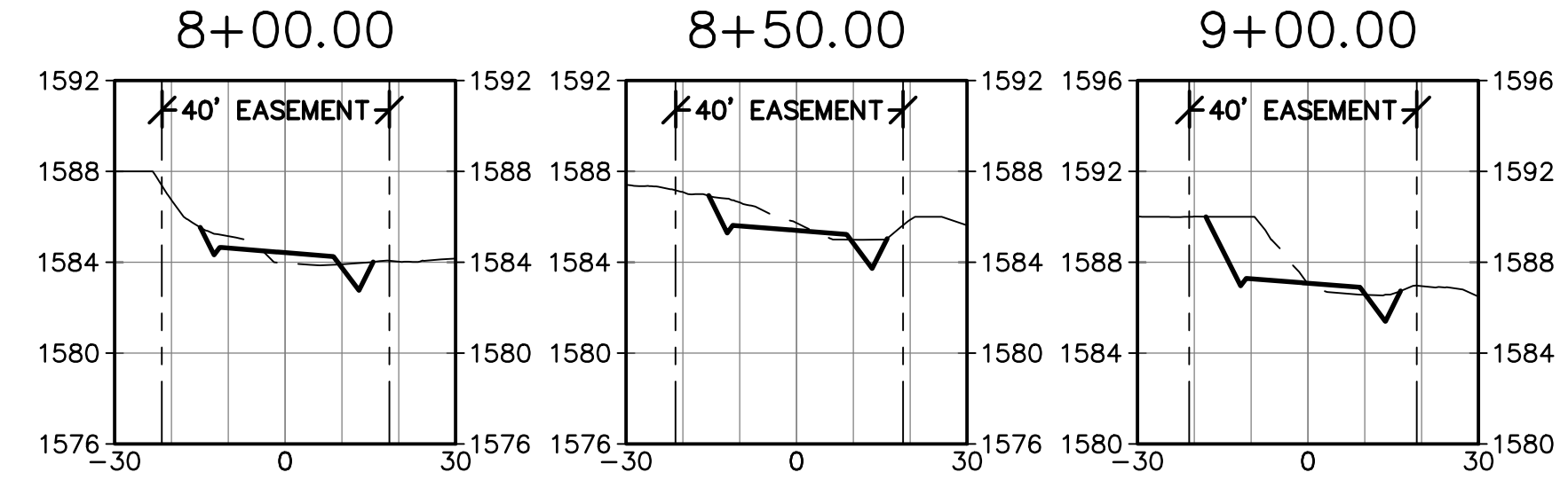
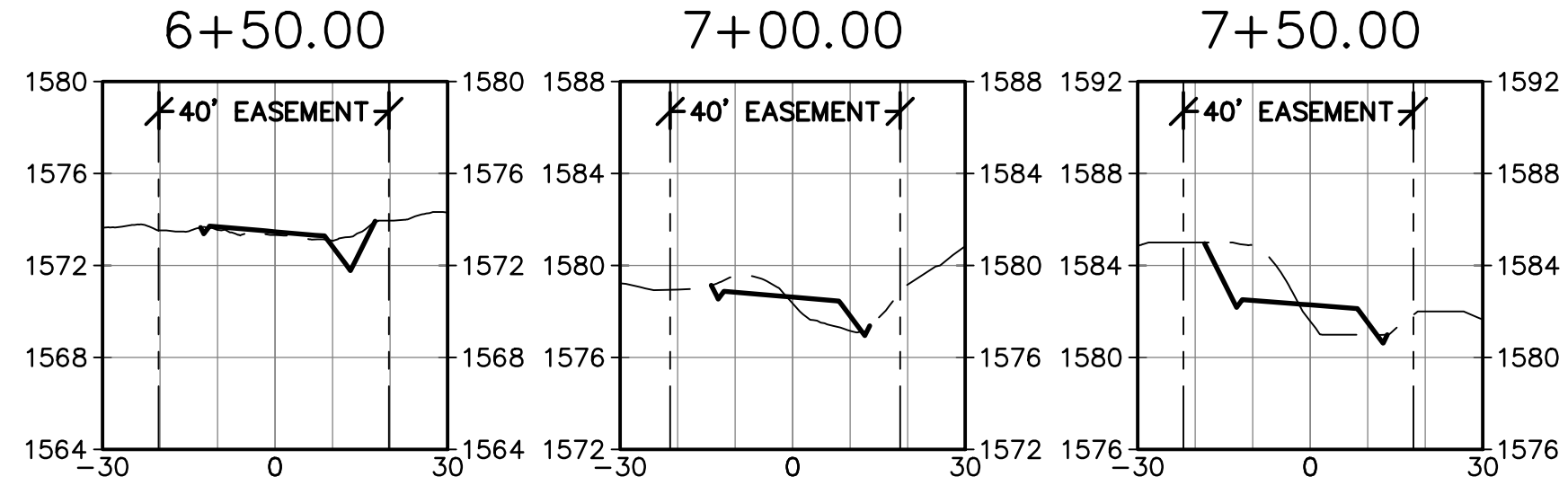
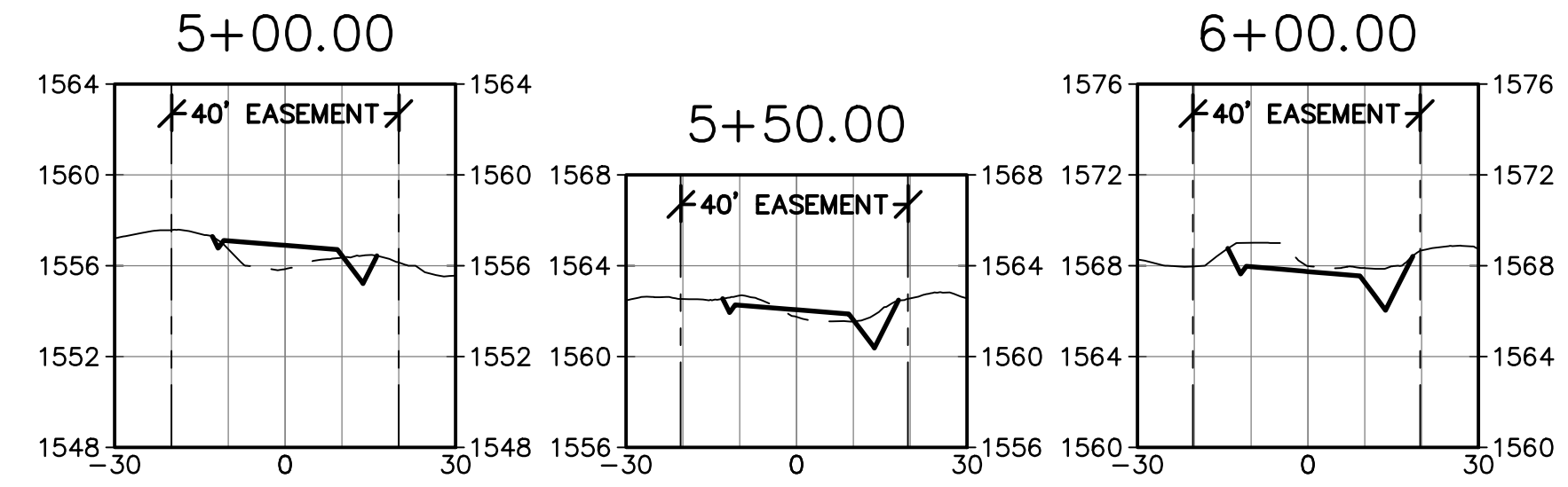
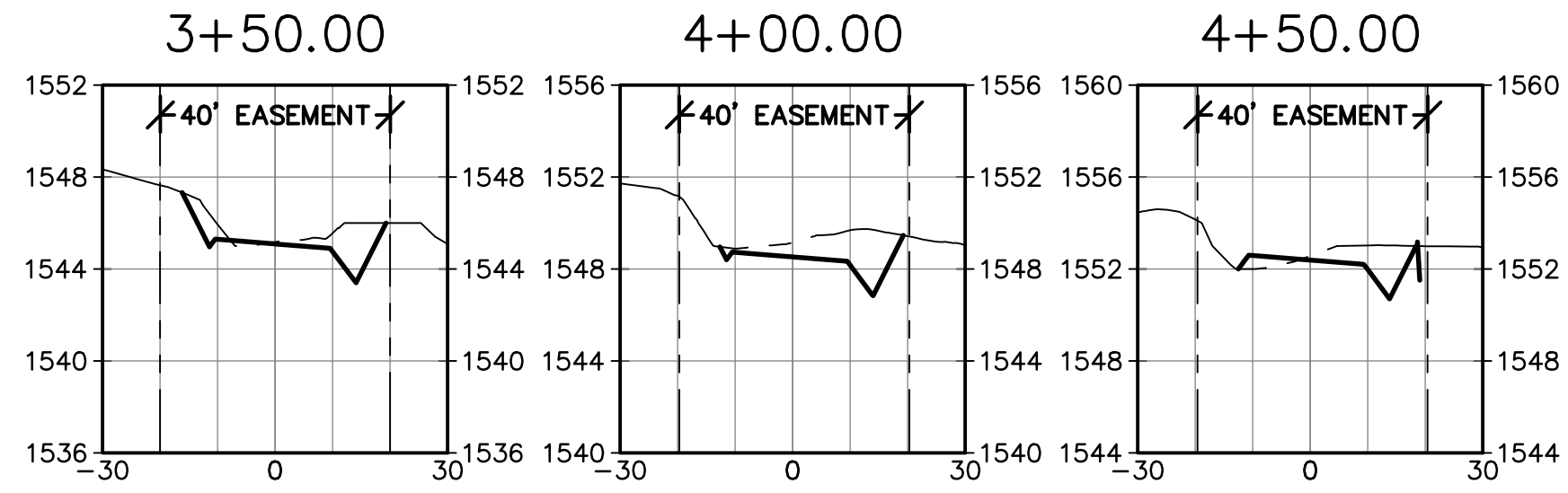
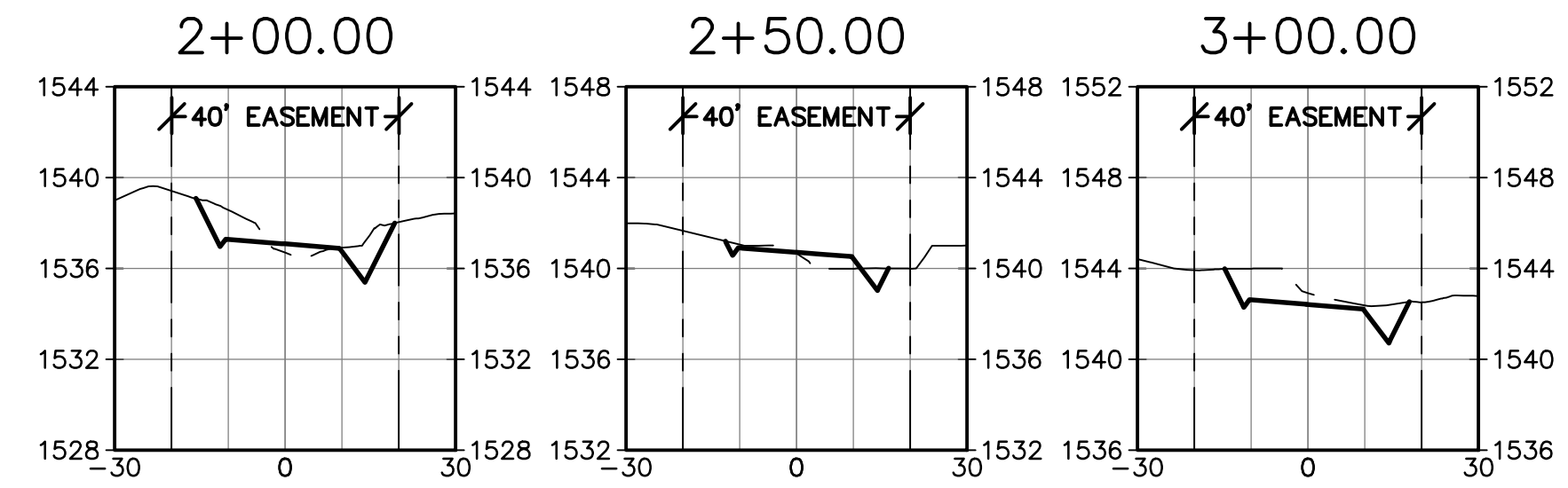
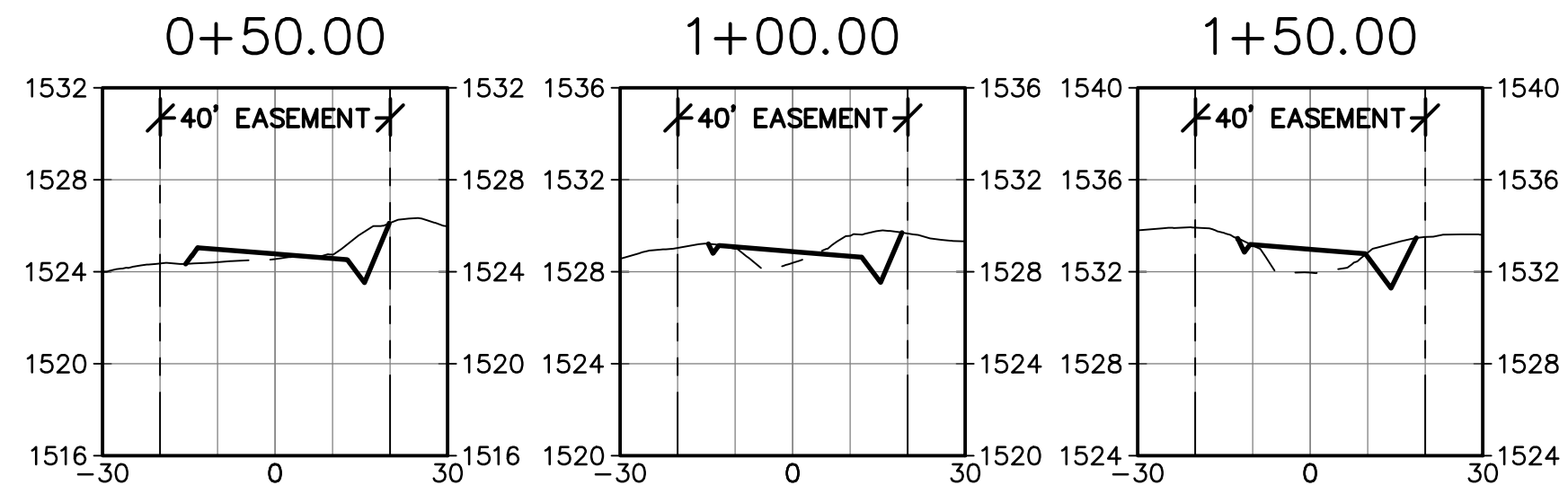


Figure II-4.2.7 Rock Check Dam
Revised July 2015

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State of Washington

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<p>NO. DATE</p> <p>NO. DATE</p> <p>NO. DATE</p> <p>NO. DATE</p> <p>NO. DATE</p> <p>NO. DATE</p> <p>NO. DATE</p> <p>NO. DATE</p> <p>NO. DATE</p> <p>NO. DATE</p> <p>NO. DATE</p>				
<p>J.E. JOHNSON LANE</p> <p>WA.</p> <p>COWLITZ COUNTY</p>				
<p>EROSION CONTROL DETAILS AND NOTES</p>				
<p>RB Engineering</p> <p>DESIGN → PERMIT → MANAGE</p> <p>OFF: (360) 740-8819</p> <p>EMAIL: info@rbengineers.com</p> <p>P.O. Box 923</p> <p>CHEHALIS, WA 98532</p>				
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<p>JOB NUMBER: 22117</p> <p>DRAWING NAME: 22117_C1.4_ECDT</p> <p>C1.4</p> <p>5 OF 6</p>				

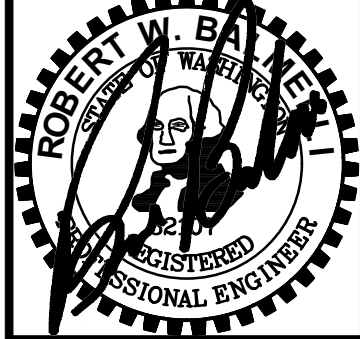


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 CHECKED BY: RWB
 DATE: 5/10/2023
 SCALE: 1" = 30'

J.E. JOHNSON LANE
 COWLITZ COUNTY WA.

ROAD CROSS SECTIONS



RB Engineering
 DESIGN → PERMIT → MANAGE
 P.O. Box 923
 CHEHALIS, WA 98532
 OFF: (360) 740-8819
 EMAIL: CWP@rbceengineers.com

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

JOB NUMBER
 22117
 DRAWING NAME
 22117_C1.5_RDCS
C1.5
 6 OF 6