

PACIFIC SURVEY & ENGINEERING INC
 909 SQUALICUM WAY SUITE 111 · BELLINGHAM, WA 98225 PHONE: 360.671.7387 FAX: 360.671.4685 www.psesurvey.com



SECTIONS 13 & 24, TOWNSHIP 35 NORTH, RANGE 10 EAST, WILLAMETTE MERIDIAN, WHATCOM COUNTY, WASHINGTON

GRADING PLANS

MARBLEMOUNT QUARRY

PROJECT ADDRESS: ROCKPORT CASCADE ROAD, NEAR MARBLEMOUNT, SKAGIT COUNTY, WA

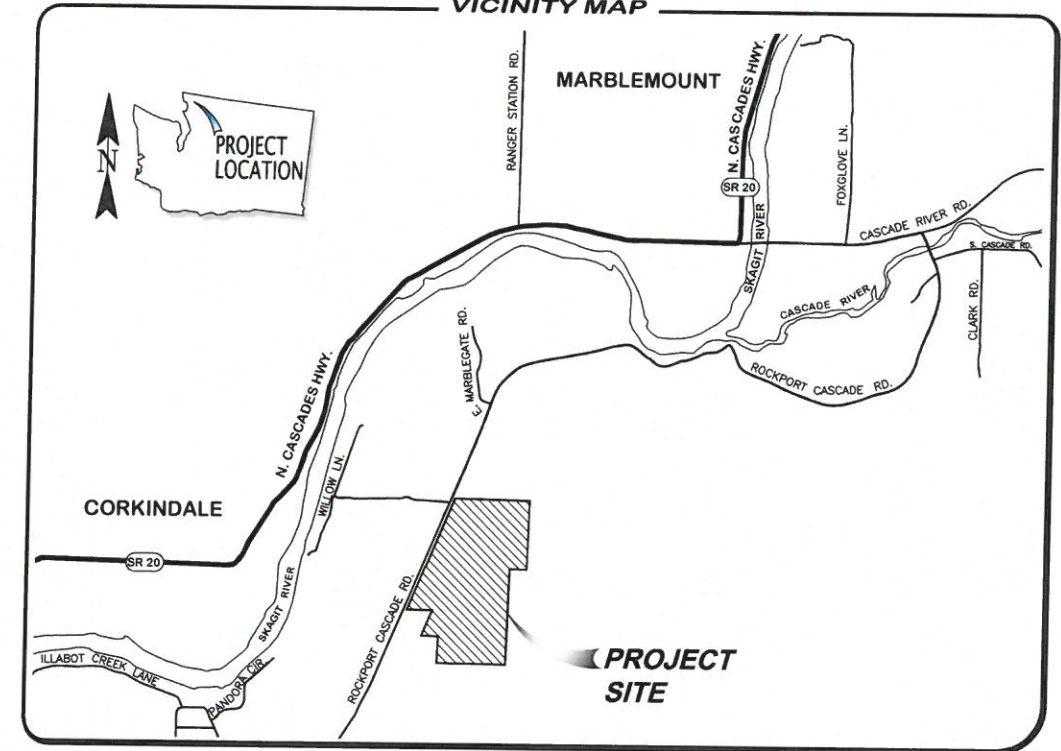
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ABBREVIATIONS KEY

ACP	ASPHALT CONCRETE PAVING	L	LEFT LINEAL FEET
AF	AUDITOR'S FILE	LP	LOW POINT
BEG.	BEGIN	LSCP	LANDSCAPING
BCR	BEGIN CURVE RETURN	MAX.	MAXIMUM
BP	BOTTOM OF PIPE	MH	MANHOLE
BSP	BINDING SITE PLAN	NTS	NOT TO SCALE
C&G	CURBS AND GUTTER	PC	POINT OF CURVATURE
CB	CATCH BASIN	PCC	PORTLAND CEMENT CONCRETE
CL	CENTERLINE	PFGC	PROPOSED FINISHED GRADE @ CL
CMP	CORRUGATED METAL PIPE	PVC	POLYVINYL CHLORIDE PIPE
CMU	CONCRETE MASONRY UNIT	R	RIGHT
CNTR.	CENTER	RCP	REINFORCED CONCRETE PIPE
CONC.	CONCRETE	ROW	RIGHT OF WAY
CP	CONCRETE PIPE	R/W	RIGHT OF WAY
CPP	CORRUGATED POLYETHYLENE PIPE	R=	CURVE RADIUS AT FOC
DWY	DRAINAGE	RD	ROAD
ECR	END CURVE RETURN	S/W	SIDEWALK
E	EXISTING	SD	STORM DRAIN
EG	EXISTING GRADE	SDCB	STORM DRAIN CATCH BASIN
EGC	EXISTING GRADE @ CENTERLINE	SDMH	STORM DRAIN MANHOLE
ELEV.	ELEVATION	SS	SANITARY SEWER
EOP	EDGE OF PAVEMENT	SSCO	SANITARY SEWER CLEAN-OUT
EX	EXISTING	SSMH	SANITARY SEWER MANHOLE
FF	FINISHED FLOOR	STD	STANDARD STRUCTURE
FG	FINISH GRADE	SVC	SERVICE
F&G	FRAME & GRATE	TBC	TOP BACK OF CURB
FGC	FINISHED GRADE AT CENTERLINE	TC	TOP OF CURB
FL	FLOWLINE	TFC	TOP FACE OF CURB
FDC	FACE OF CURB	T/W	TOP OF WALL
FS	FINISH SURFACE	TP	TOP OF PIPE
HP	HEIGHT POINT	TYP.	TYPICAL
HT	HEIGHT	UGP	UNDERGROUND POWER
IE	INVERT ELEVATION	VB	VAULT BOTTOM
INV	INVERT	WA	WATER
		WC	WHATCOM COUNTY
		WSDOT	WASHINGTON STATE DEPT. OF TRANSPORTATION

VICINITY MAP



DESIGN:	DATA	SCALE	REV	DATE	REVISION DESCRIPTION	BY	No.	ISSUE DESCRIPTION	DATE
STAKING:	BASE	HORIZ:					1	PROJECT MEETING	NOV. 14, 2018
ASBUILT:	DESIGN	VERT:					2	PRE-APP SUBMITTAL	NOV. 21, 2018
	XREF:						3	GRADING PERMIT SUBMITTAL	JAN. 15, 2019
	DWG:								



MARBLEMOUNT QUARRY
 MARBLEMOUNT, WASHINGTON
 GRADING PERMIT PLANS

COVER

JOB No. 2017008
 SHEET
01
 OF
24

KIEWIT INFRASTRUCTURE CO.
 2200 COLUMBIA HOUSE BLVD.
 VANCOUVER, WASHINGTON 98661
 360.693.1478

2019 01 15 17:00:25 -0800 1-15-2019



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PRE-BLA PARCEL DESCRIPTIONS:

PARCEL A: P45541
 (PTN OF STATUTORY BARGAIN AND SALE DEED A.F. NO. 201806290144)
 GOVERNMENT LOTS 1, 2, 3, AND 4 AND THE WEST HALF OF THE NORTHWEST QUARTER ALL IN SECTION 24, TOWNSHIP 35 NORTH, RANGE 10 EAST OF THE W.M.

SITUATE IN THE COUNTY OF SKAGIT, STATE OF WASHINGTON.

PARCEL B: P45548
 (PTN OF STATUTORY BARGAIN AND SALE DEED A.F. NO. 201806290144)

THE WEST HALF OF THE NORTHWEST QUARTER, THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER, THE SOUTH HALF OF THE SOUTHWEST QUARTER AND THE WEST HALF OF THE SOUTHWEST QUARTER, ALL IN SECTION 24, TOWNSHIP 35 NORTH, RANGE 10 EAST OF THE W.M., IN SKAGIT COUNTY, WASHINGTON;

EXCEPT THAT CERTAIN 80 FOOT STRIP CONVEYED TO SKAGIT COUNTY BY DEED RECORDED APRIL 19, 1960, UNDER RECORDING NO. 593378.

TOGETHER WITH THE RIGHT-OF-WAY 60 IN WIDTH OVER AND CROSS THE FOLLOWING DESCRIBED LANDS:

BEGINNING AT THE SOUTHWEST CORNER OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 24, TOWNSHIP 35 NORTH, RANGE 10 EAST, W.M., WHICH IS THE TRUE POINT OF BEGINNING; THENCE 65 FEET NORTH ALONG THE WEST LINE OF SAID SOUTHWEST QUARTER OF THE NORTHWEST QUARTER;

THENCE SOUTHWESTERLY TO A POINT ON THE SOUTH LINE OF SAID SOUTHWEST QUARTER OF THE NORTHWEST QUARTER;

THENCE 65 FEET WEST ALONG THE SOUTH LINE OF SAID SOUTHWEST QUARTER OF THE NORTHWEST QUARTER TO THE TRUE POINT OF BEGINNING.

EXCEPT ROAD RIGHTS OF WAY.

SITUATE IN THE COUNTY OF SKAGIT, STATE OF WASHINGTON.

PARCEL C: P128574

THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 24, TOWNSHIP 35 NORTH, RANGE 10 EAST OF THE W.M., IN SKAGIT COUNTY, WASHINGTON.

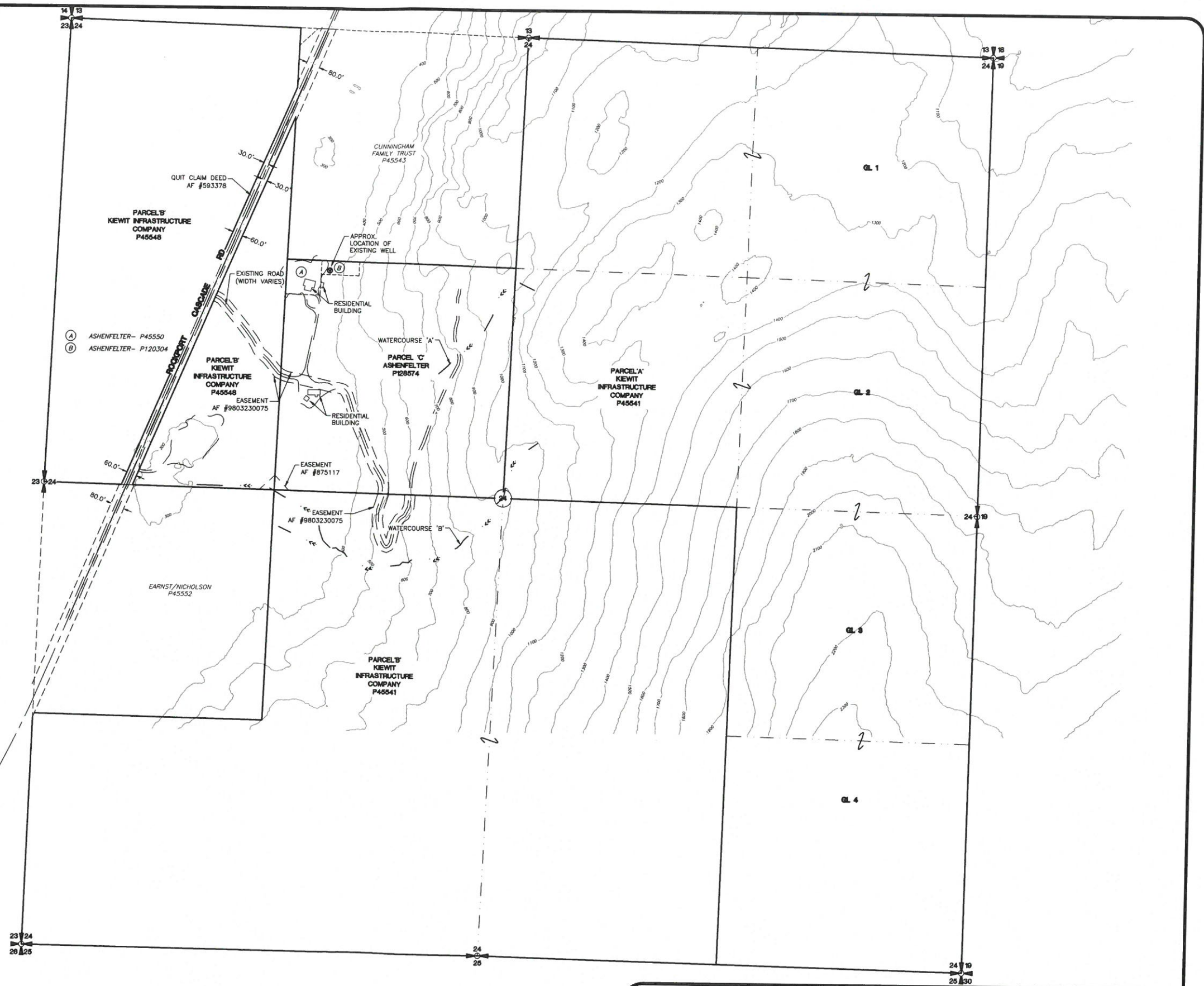
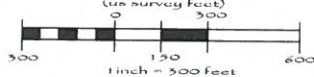
SURVEYOR'S NOTES:

- THIS MAP IS NOT INTENDED TO REPRESENT A FORMAL BOUNDARY SURVEY; NOR DOES IT REFLECT ELEMENTS THAT A BOUNDARY SURVEY MAY DISCLOSE. BOUNDARY RELATED ELEMENTS DEPICTED HEREON ARE SHOWN PER AVAILABLE RECORD INFORMATION.
- CONTOURS DEPICTED HAVE BEEN COMPUTER GENERATED FROM PUBLICLY AVAILABLE LIDAR, CIRCA 2008, AND MAY NOT MEET NATIONAL MAPPING STANDARDS FOR 100-FOOT ACCURACY TOPOGRAPHIC SURVEYS.
- THIS MAP WAS PREPARED WITH THE BENEFIT OF AN ALTA COMMITMENT FOR TITLE INSURANCE PREPARED BY CHICAGO TITLE INSURANCE COMPANY UNDER COMMITMENT NUMBER 620037041. EASEMENTS AND/OR TITLE ENCUMBRANCES MAY EXIST THAT ARE NOT NOTED THEREIN.

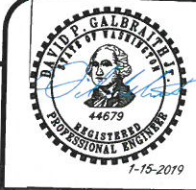
LINE/SYMBOL LEGEND:

- = CENTER OF SECTION
- = EXISTING SECTION CORNER
- = EXISTING QUARTER SECTION CORNER
- = EXISTING WATER WELL
- = SECTION BOUNDARY
- = SUBJECT PROPERTY BOUNDARY
- = OFFSITE PROPERTY BOUNDARY
- = OFFSITE RIGHT OF WAY MARGIN
- = EXISTING EASEMENT AREA
- = EXISTING EDGE OF ASPHALT
- = EXISTING EDGE OF DIRT ROAD
- = EXISTING GRADE INDEX CONTOUR
- = STREAM LOCATION

GRAPHIC SCALE



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MARBLEMOUNT QUARRY
 MARBLEMOUNT, WASHINGTON
 GRADING PERMIT PLANS

EXISTING CONDITIONS

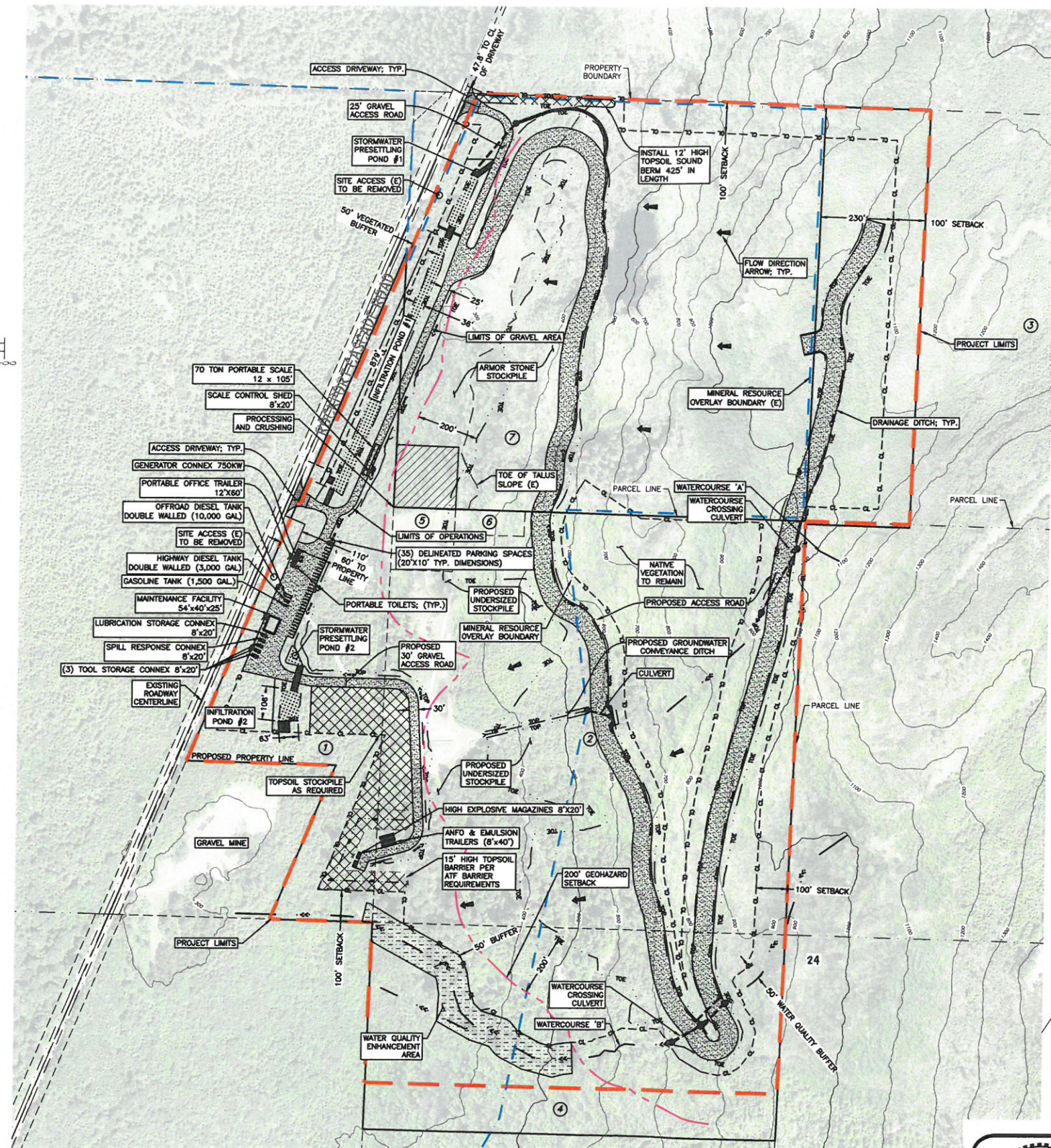
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JOB No. 2017008
 SHEET **02**
 OF 24



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GRAPHIC SCALE
 (AS SURVEY FEET)
 0 100 200
 1 inch = 200 Feet
 SCALE SHEET ACCORDINGLY IF REPRODUCED AT SMALLER SCALE



- EXISTING LEGEND**
- ⊙ = EXISTING WATER WELL
 - = SECTION BOUNDARY
 - - - = SUBJECT PROPERTY BOUNDARY
 - - - = OFFSITE PROPERTY BOUNDARY
 - - - = OFFSITE RIGHT OF WAY MARGIN
 - - - = EXISTING EASEMENT AREA
 - - - = EXISTING EDGE OF ASPHALT
 - - - = EXISTING EDGE OF DIRT ROAD
 - - - = EXISTING GRADE INDEX CONTOUR
 - - - = EXISTING GRADE INTERVAL CONTOUR
 - - - = FLOWLINE

- PROPOSED LEGEND**
- = PROPOSED PROPERTY LINE
 - = MINING PERMIT BOUNDARY
 - = MINERAL RESOURCE OVERLAY
 - = 200-FOOT GEOHAZARD SETBACK
 - = QUARRY CLEARING LIMITS
 - = PROPOSED FINISHED GRADE INDEX CONTOUR
 - = PROPOSED FINISHED GRADE INTERVAL CONTOUR
 - = PROPOSED DITCH LINE
 - = PROPOSED TOP OF SLOPE LINE
 - = PROPOSED TOE OF SLOPE LINE
 - = PROPOSED ASPHALT APRON
 - = PROPOSED GRAVEL AREA
 - = PROPOSED TOPSOIL STOCKPILE
 - = PROPOSED STORMWATER INFILTRATION POND
 - = PROPOSED STREAM MITIGATION AREA

PARCEL MAP TABLE		
PARCEL IDENTIFIER	SKAGIT COUNTY PARCEL NUMBER	OWNERSHIP
1	P45548	KIEWIT INFRASTRUCTURE COMPANY
2	P128574	ASHENFELTER
3	P45541	KIEWIT INFRASTRUCTURE COMPANY
4	P45548	KIEWIT INFRASTRUCTURE COMPANY
5	P45550	ASHENFELTER
6	P120304	ASHENFELTER
7	P45543	CUNNINGHAM FAMILY TRUST



PARCEL MAP

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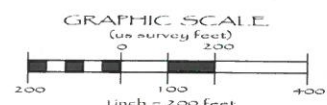
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OVERALL SITE PLAN

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EROSION CONTROL LEGEND

- PROPOSED CLEARING/GRUBBING LIMITS
- CONVEYANCE DITCHLINE
- PROPOSED GRADING TOP OF SLOPE LINE
- PROPOSED GRADING TOE OF SLOPE LINE

- WSDOE BMP C101 & C102 PRESERVING NATURAL VEGETATION (C101) & BUFFER ZONES (C102)
- WSDOE BMP C105 STABILIZED CONSTRUCTION ENTRANCE
- WSDOE BMP C130 SURFACE ROUGHENING
- WSDOE BMP C140 DUST CONTROL
- WSDOE BMP C150 MATERIALS ON HAND
- WSDOE BMP C152 SAWCUTTING AND SURFACING POLLUTION PREVENTION
- WSDOE BMP C208 GRAVEL CHECK DAM (MAX. 50 LF ON CENTER)
- WSDOE BMP C209 ROCK LINING OUTLET PROTECTION
- WSDOE BMP C125 TOPSOILING
- WSDOE BMP C220 STORM DRAIN INLET PROTECTION

SEE STORM WATER MANAGEMENT REPORT FOR DETAILS

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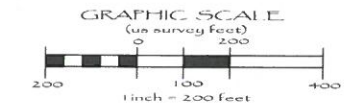
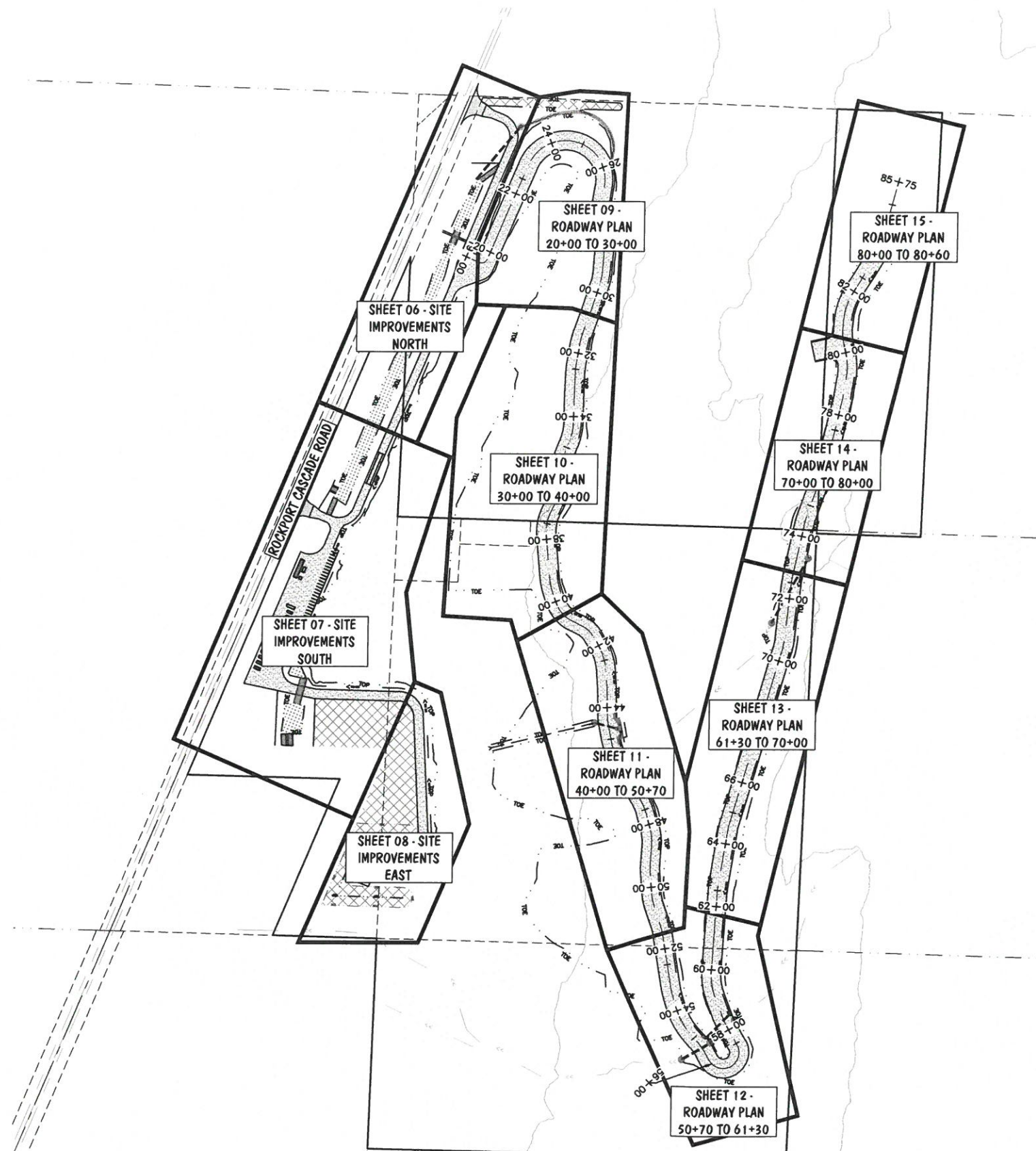
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TEMPORARY EROSION AND SEDIMENTATION CONTROL PLAN

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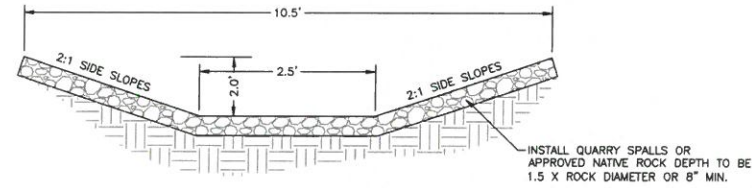
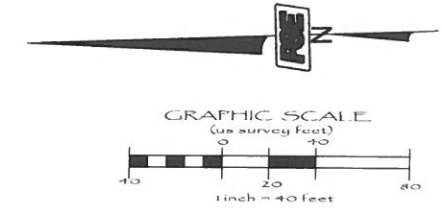
SHEET MAP

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05
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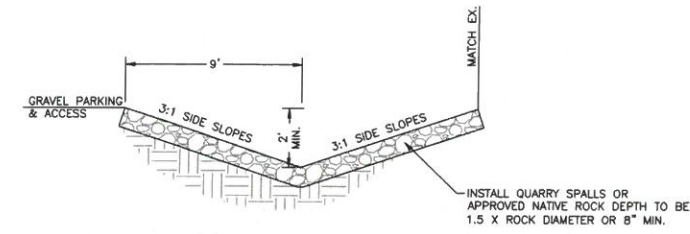


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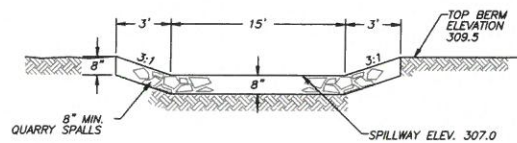
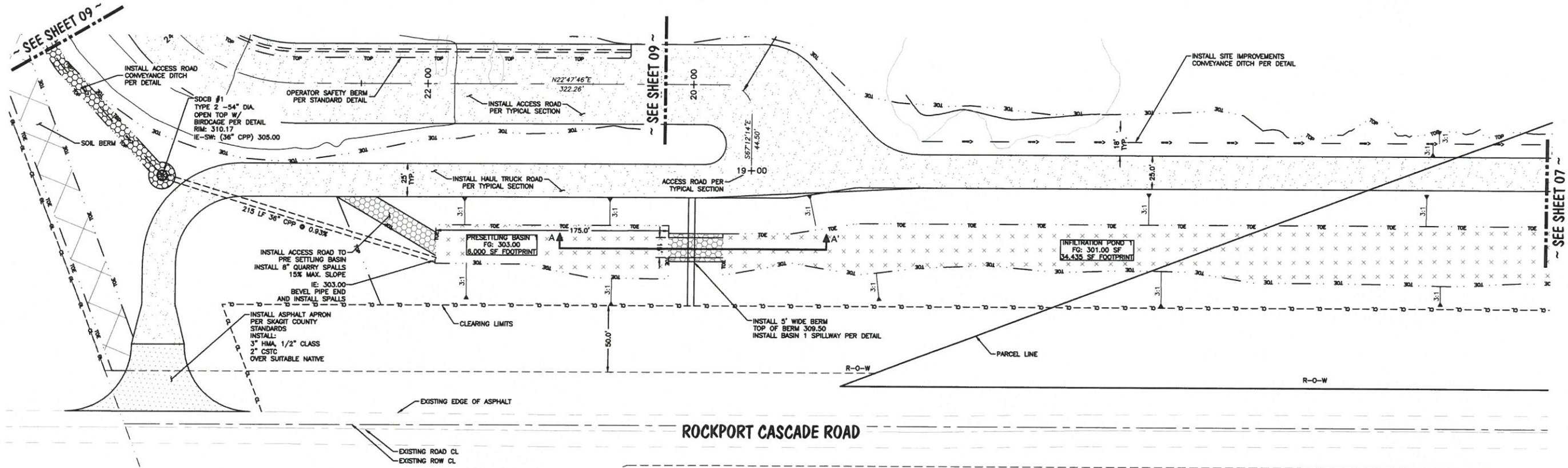
ACCESS ROAD CONVEYANCE DITCH

NOT TO SCALE



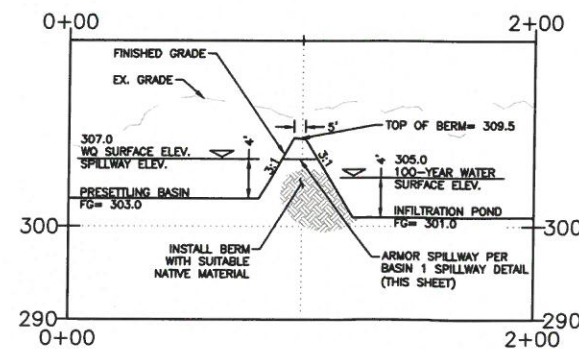
SITE IMPROVEMENTS CONVEYANCE DITCH

NOT TO SCALE



BASIN 1 SPILLWAY DETAIL

NOT TO SCALE



SECTION A-A'

H. SCALE: 1"=40' V. SCALE: 1"=10'

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MARBLEMOUNT QUARRY
MARBLEMOUNT, WASHINGTON
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SITE IMPROVEMENTS NORTH

JOB No. 2017008

SHEET

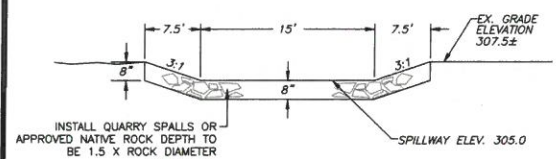
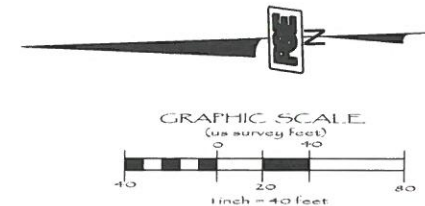
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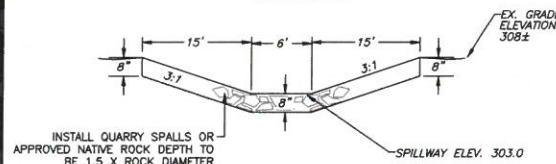
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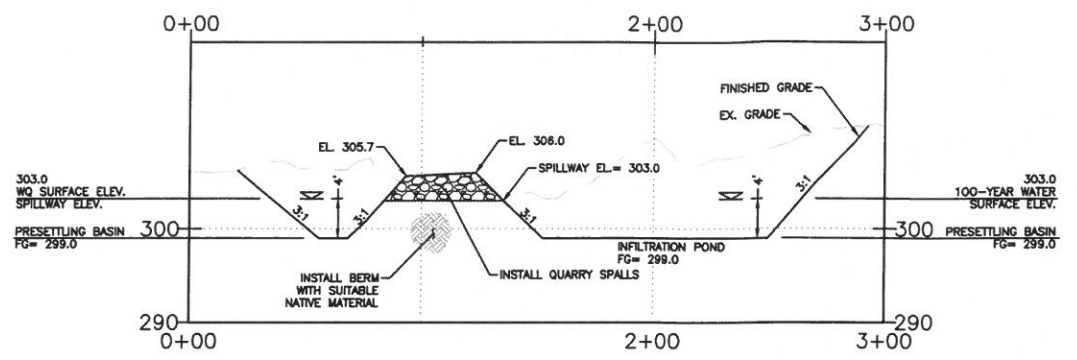
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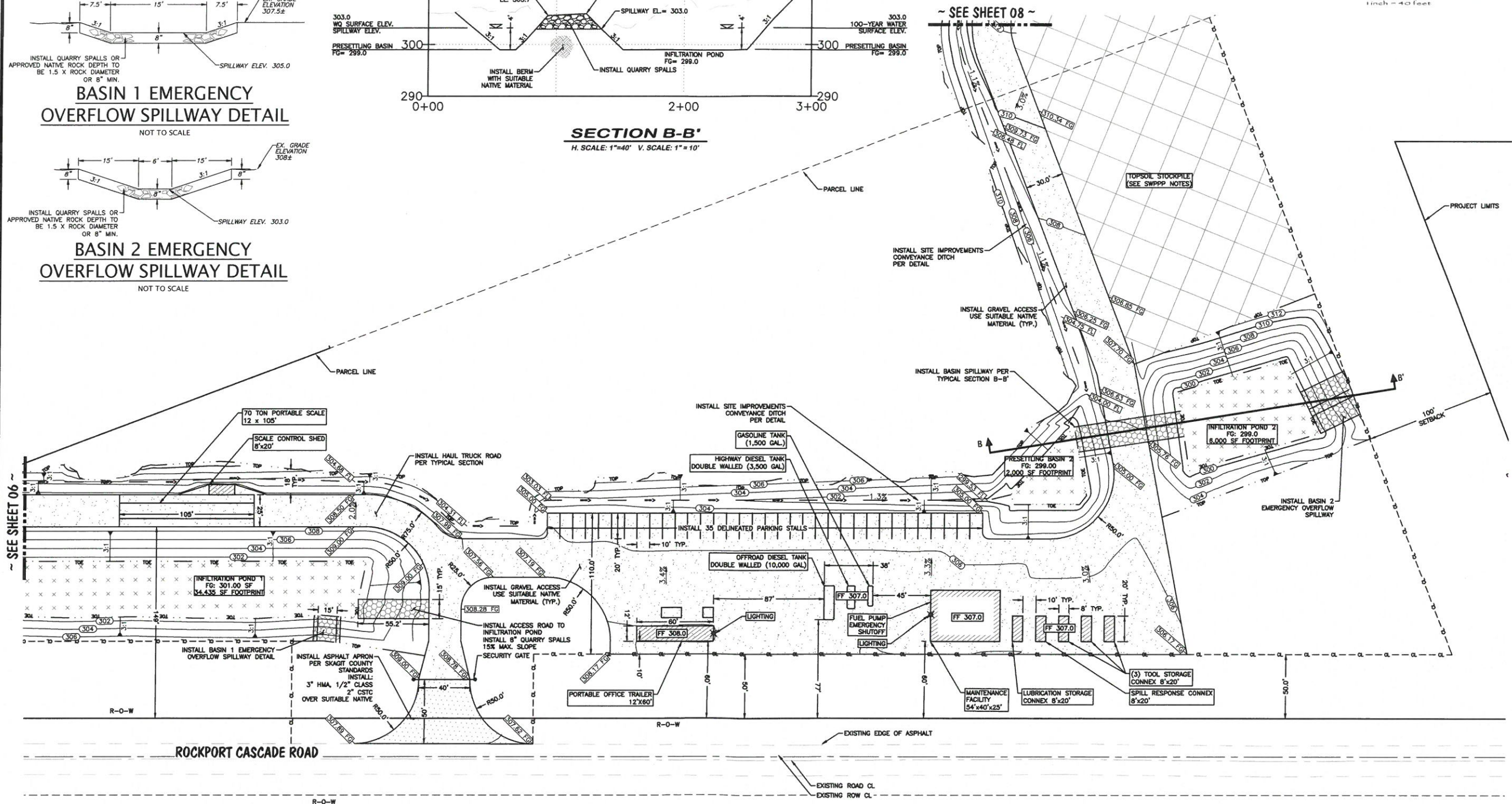
BASIN 1 EMERGENCY OVERFLOW SPILLWAY DETAIL
NOT TO SCALE



BASIN 2 EMERGENCY OVERFLOW SPILLWAY DETAIL
NOT TO SCALE



SECTION B-B'
H. SCALE: 1"=40' V. SCALE: 1"=10'



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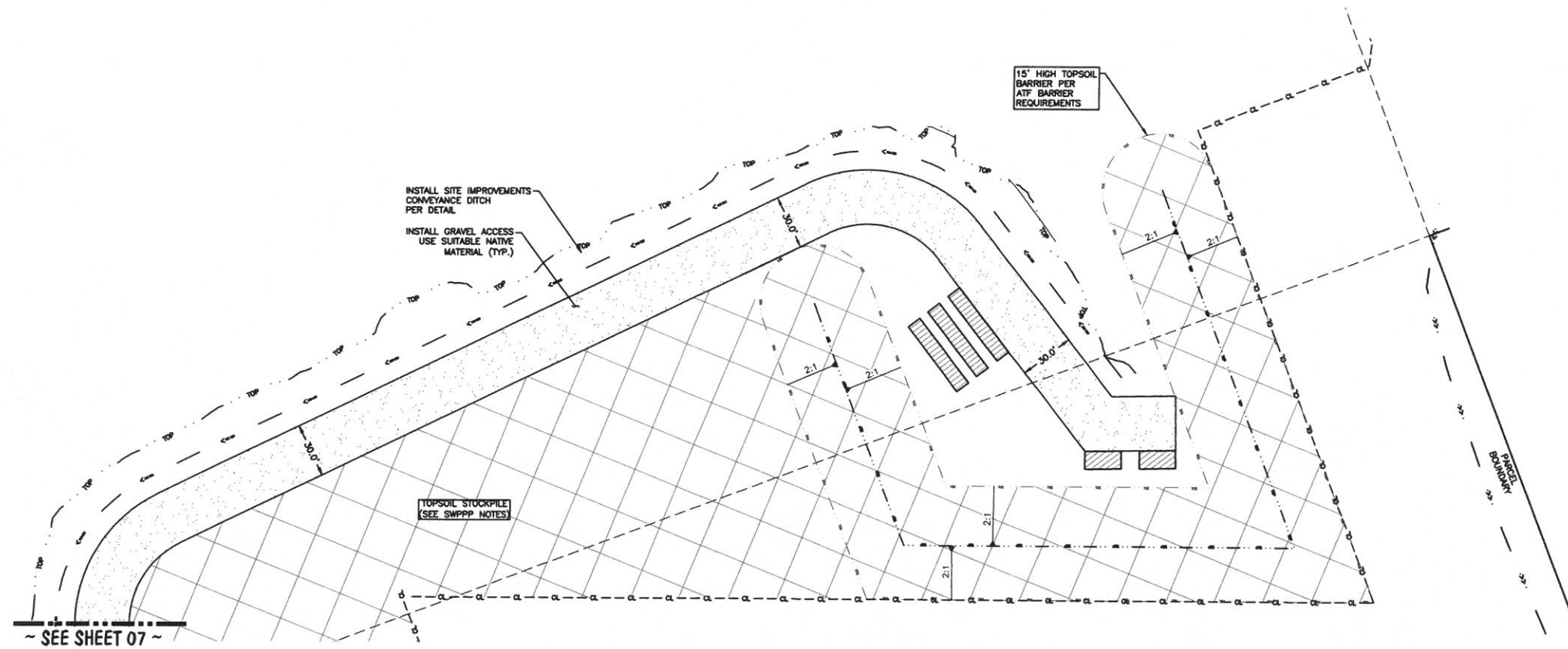
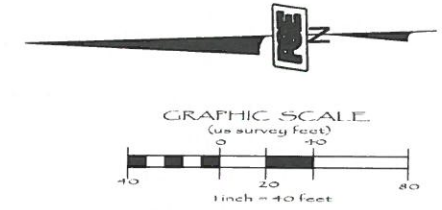
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SITE IMPROVEMENTS SOUTH

JOB No. 2017008
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07
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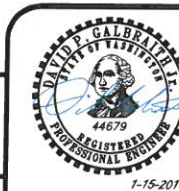


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MARBLEMOUNT QUARRY
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SITE IMPROVEMENTS EAST

JOB No. 2017008

SHEET

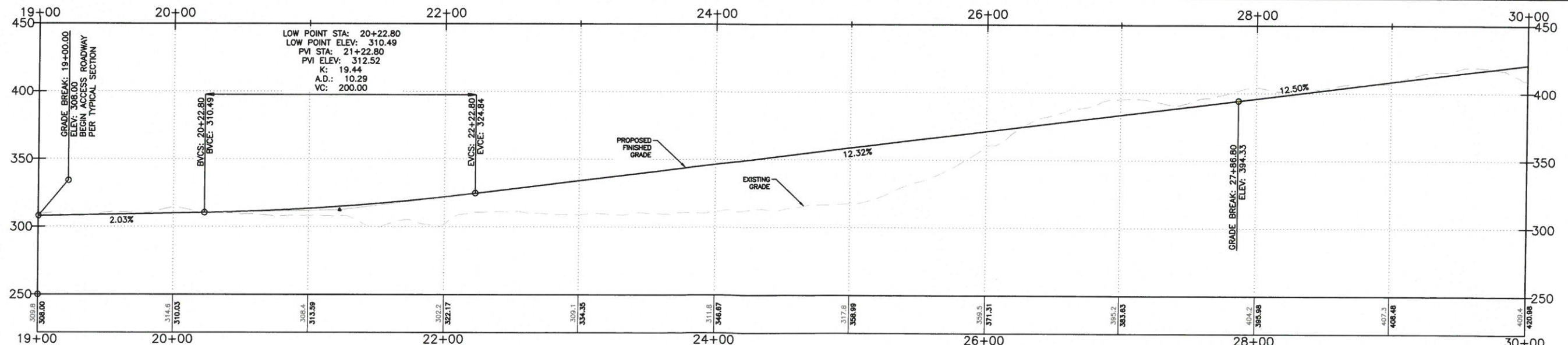
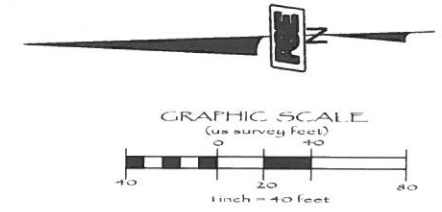
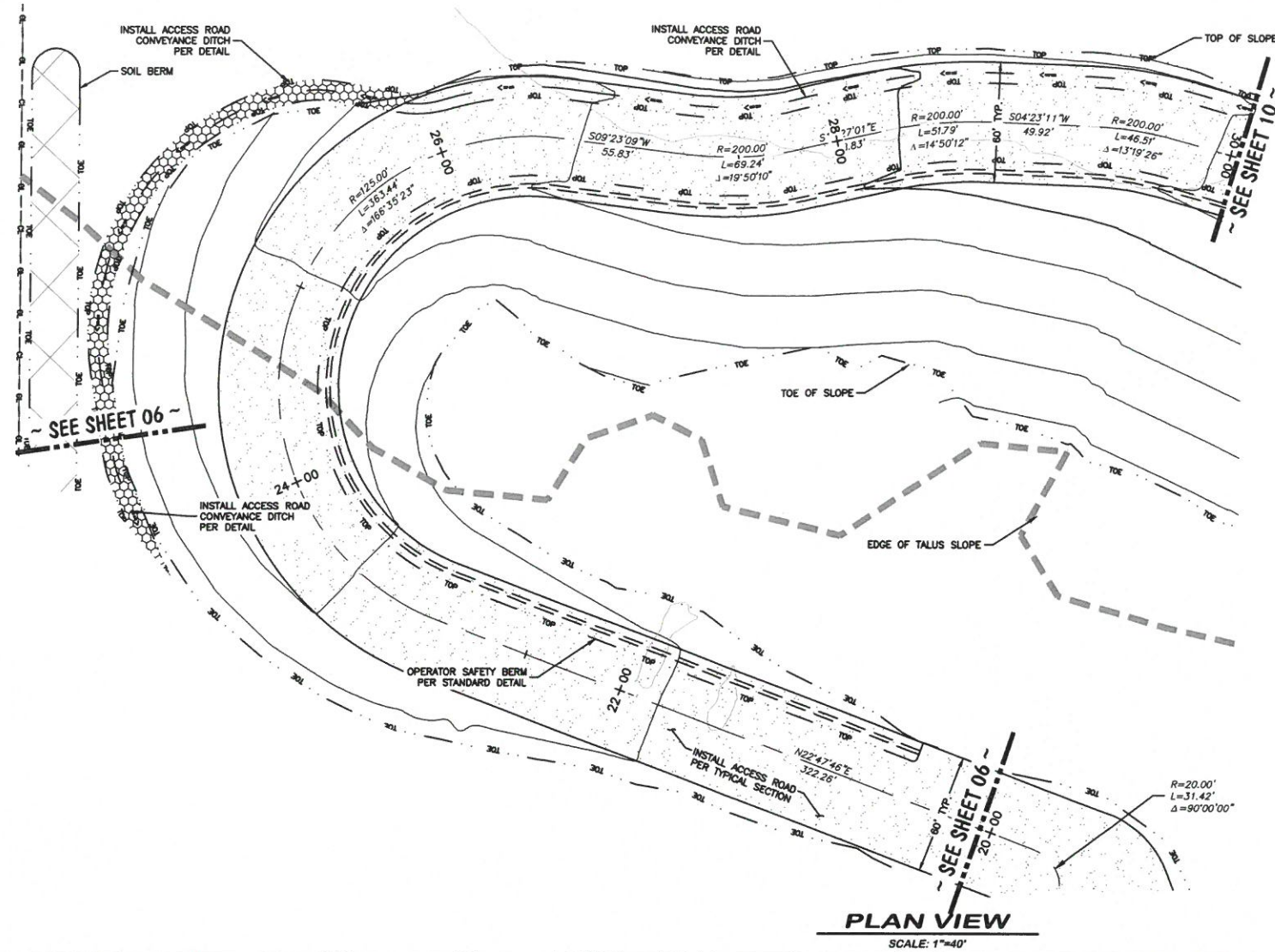
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OF

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PROFILE VIEW
 H. SCALE: 1"=40' V. SCALE: 1"=8'

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ROADWAY PLAN 20+00 TO 30+00

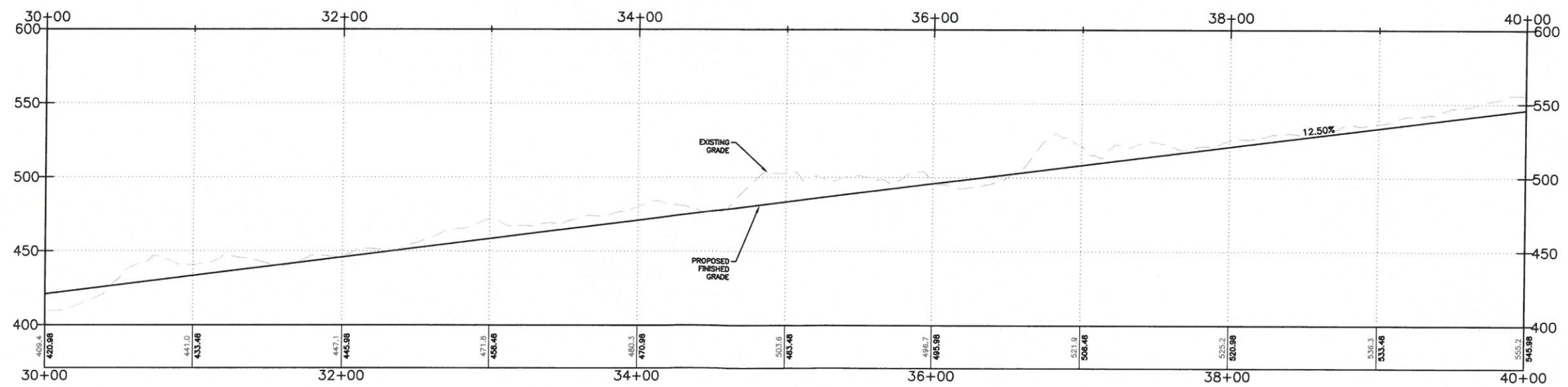
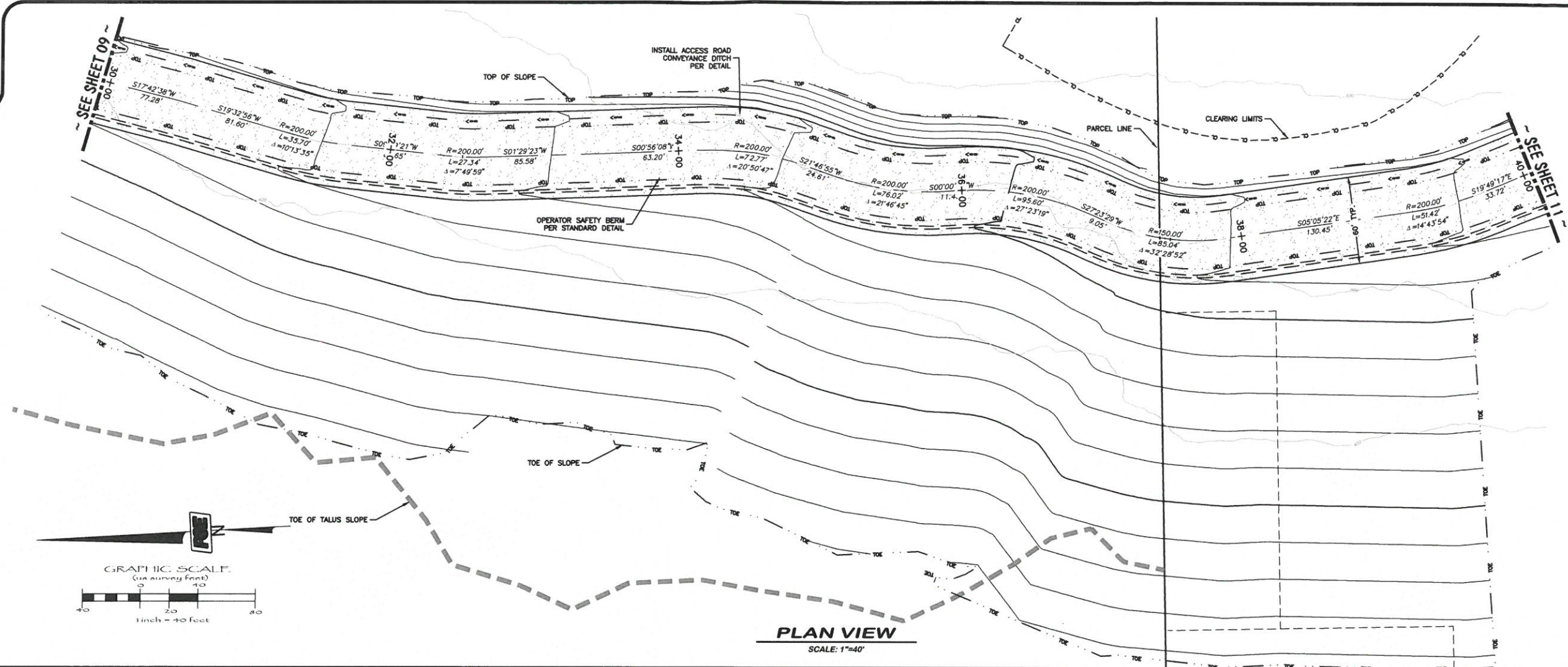
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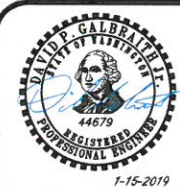


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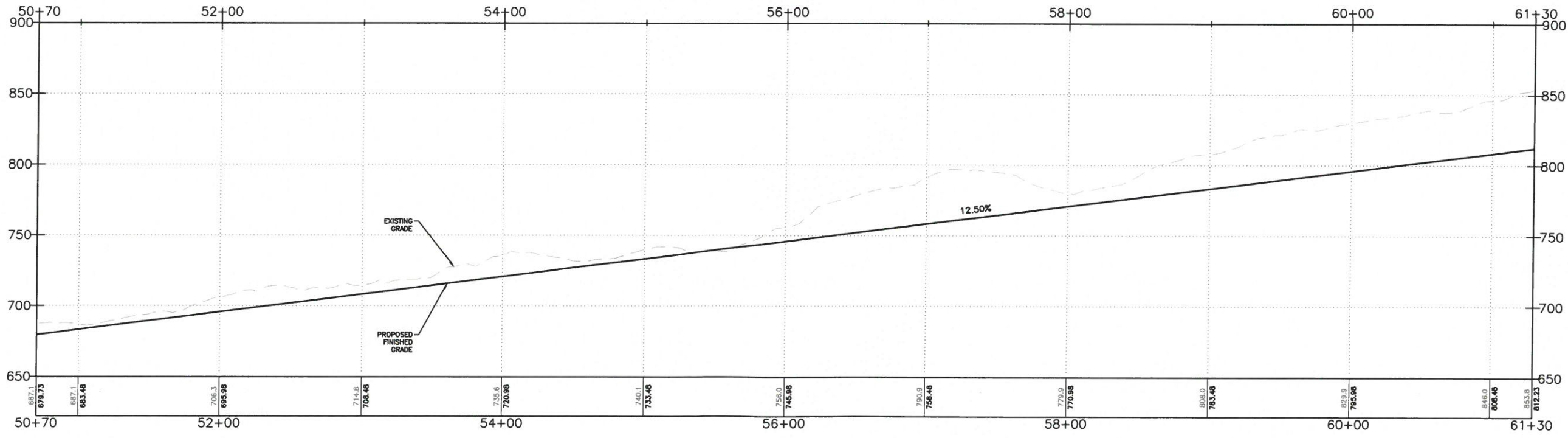
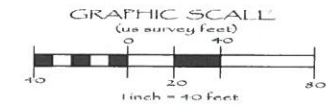
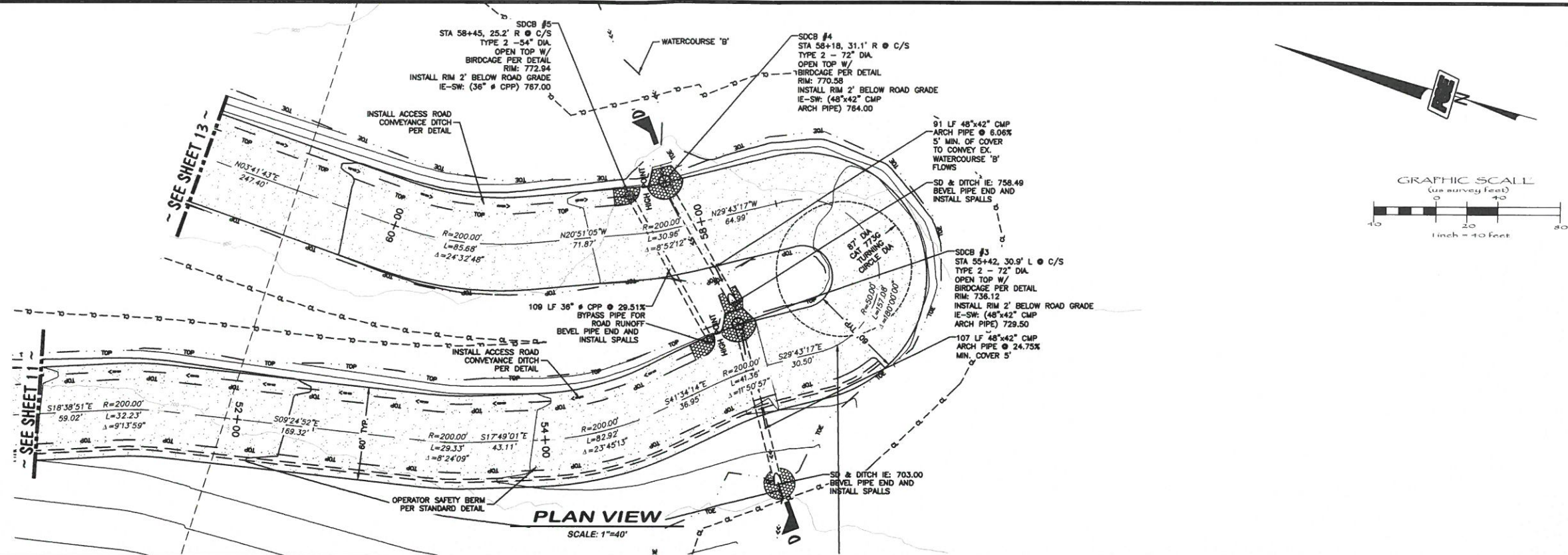
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ROADWAY PLAN 30+00 TO 40+00

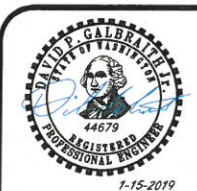
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ROADWAY PLAN 50+70 TO 61+30

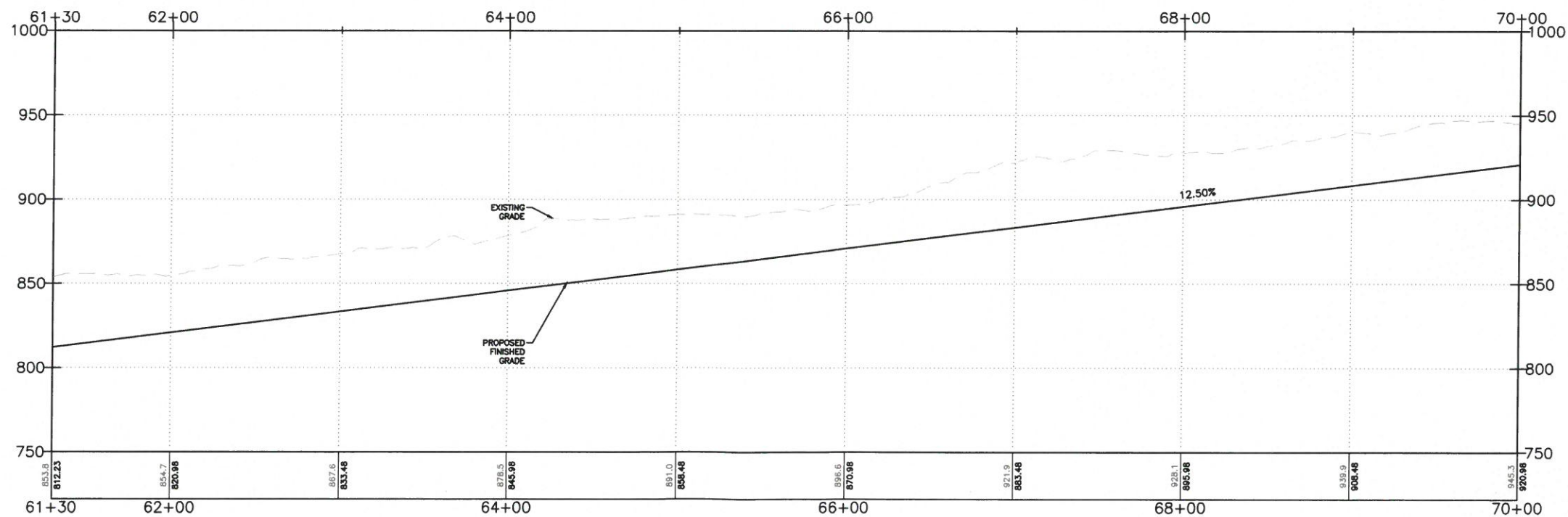
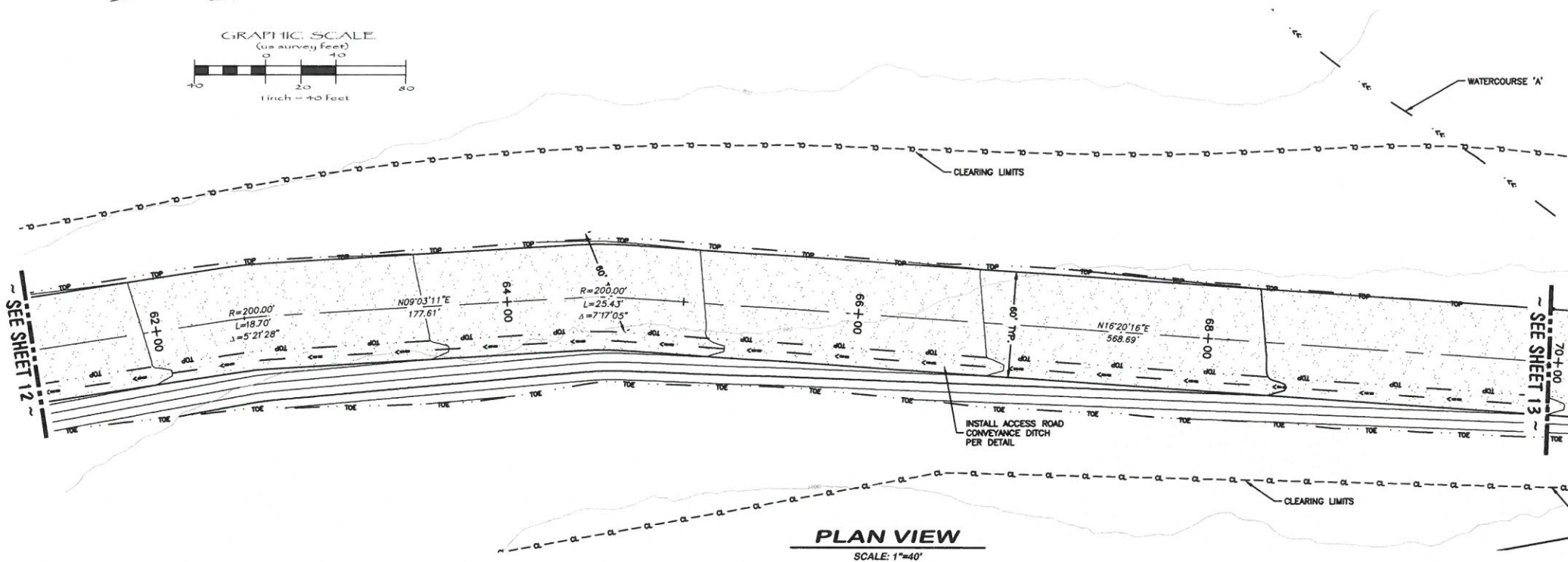
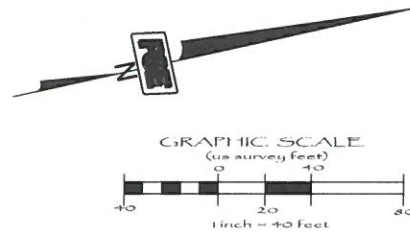
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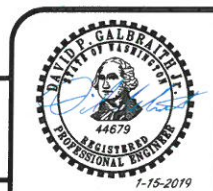


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PROFILE VIEW
 H. SCALE: 1"=40' V. SCALE: 1"=40'



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ROADWAY PLAN 61+30 TO 70+00

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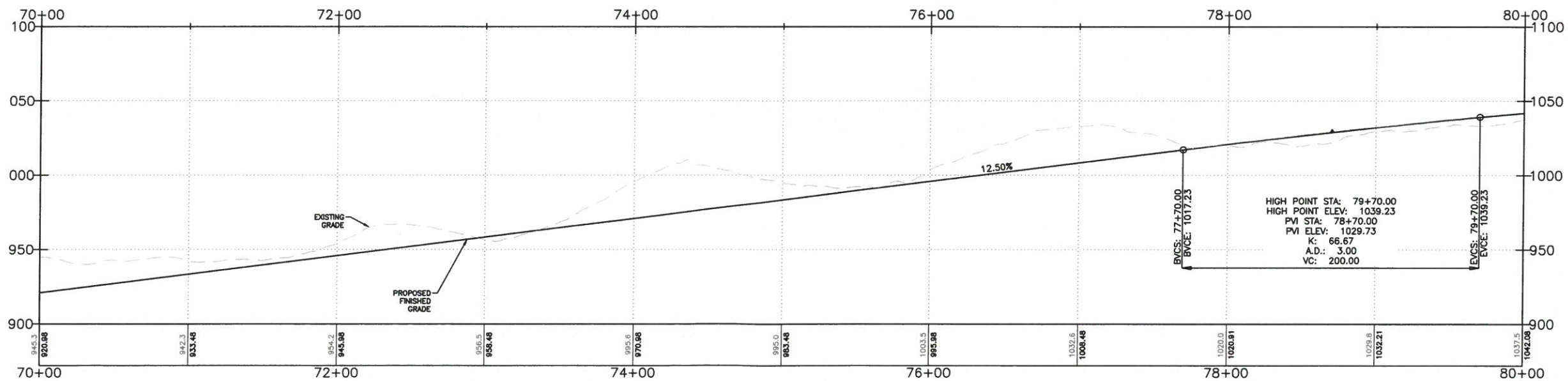
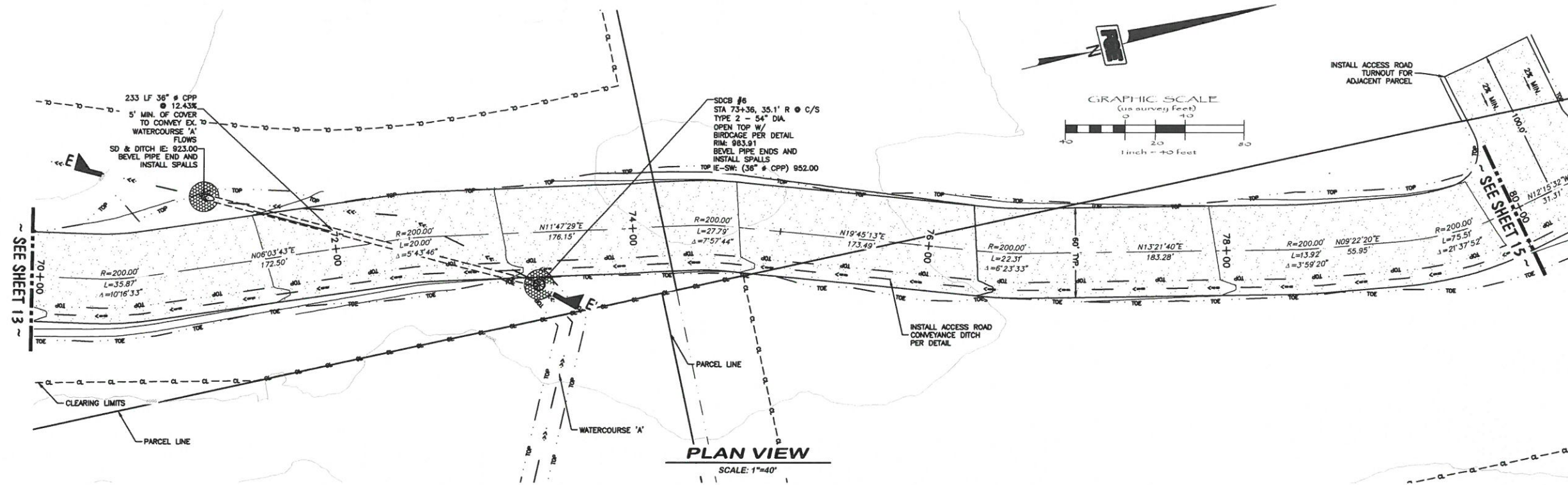
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PROFILE VIEW
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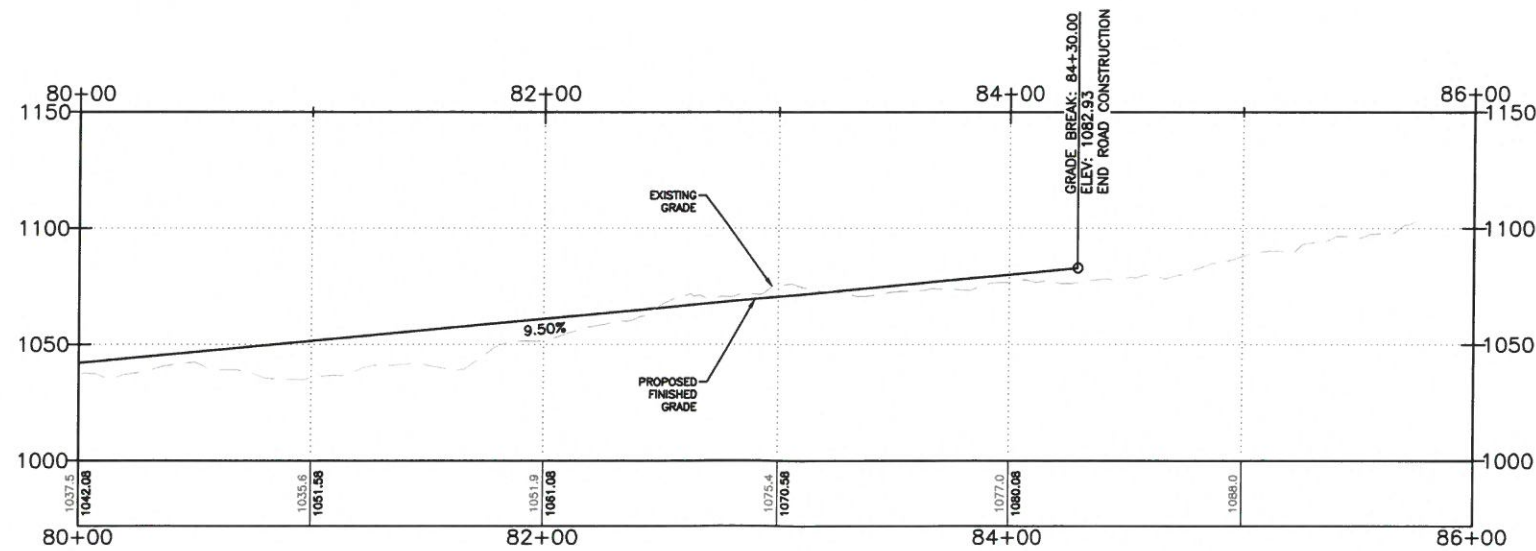
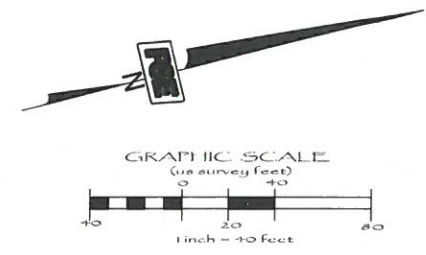
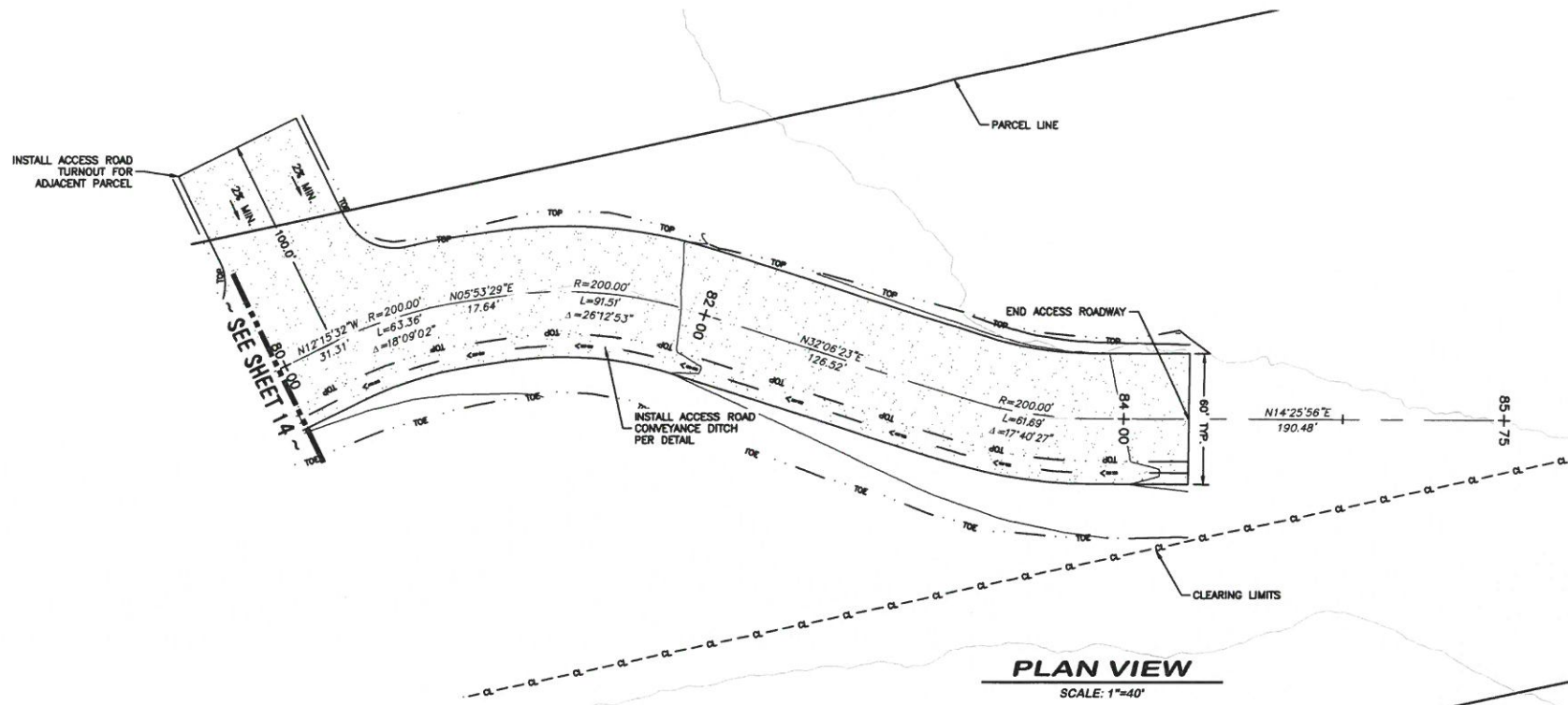
ROADWAY PLAN 70+00 TO 80+00

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PROFILE VIEW
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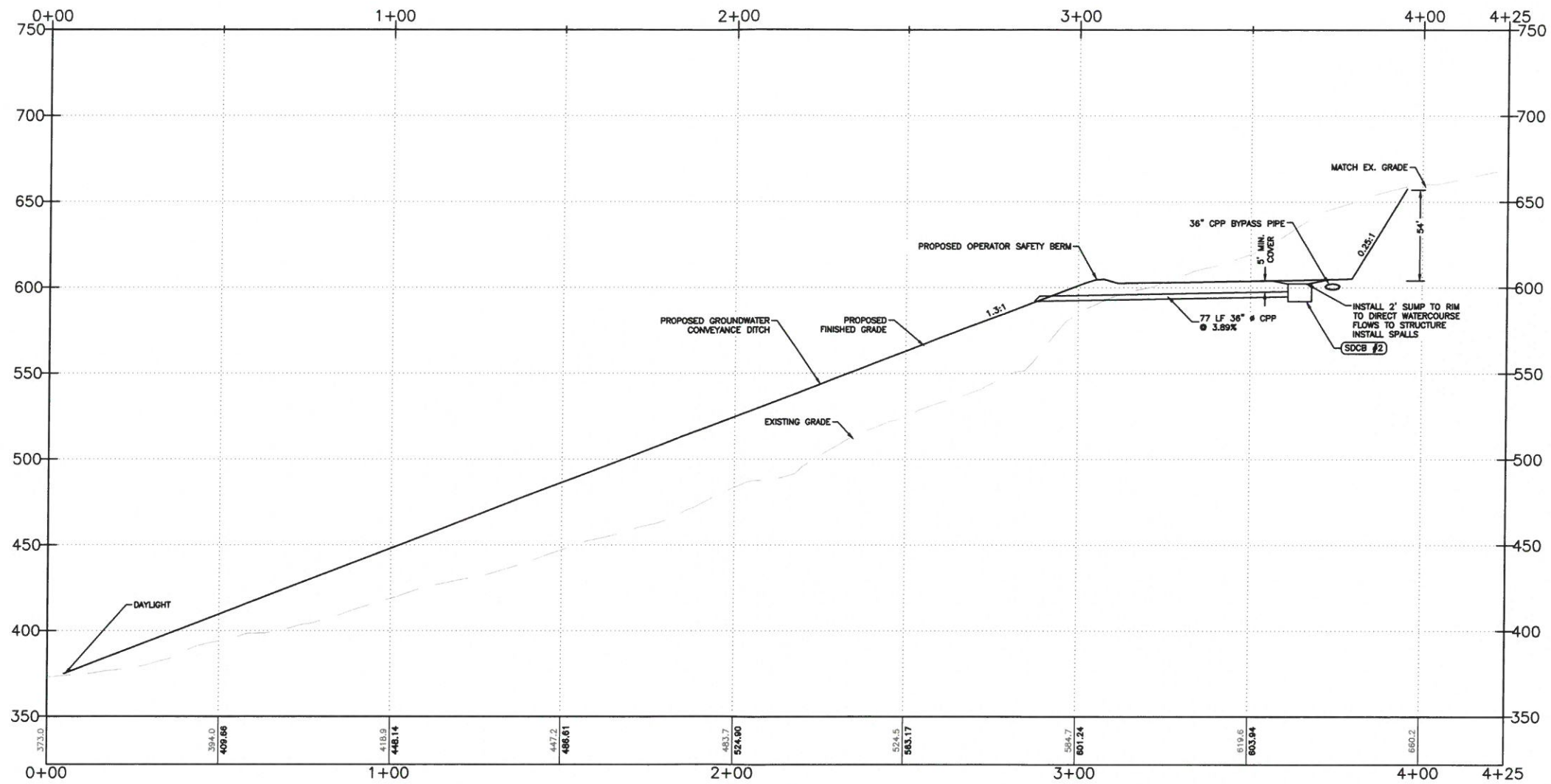
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ROADWAY PLAN 80+00 TO 80+60

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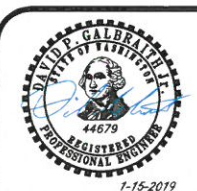
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SECTION C-C'
 H. SCALE: 1"=20' V. SCALE: 1"=40'

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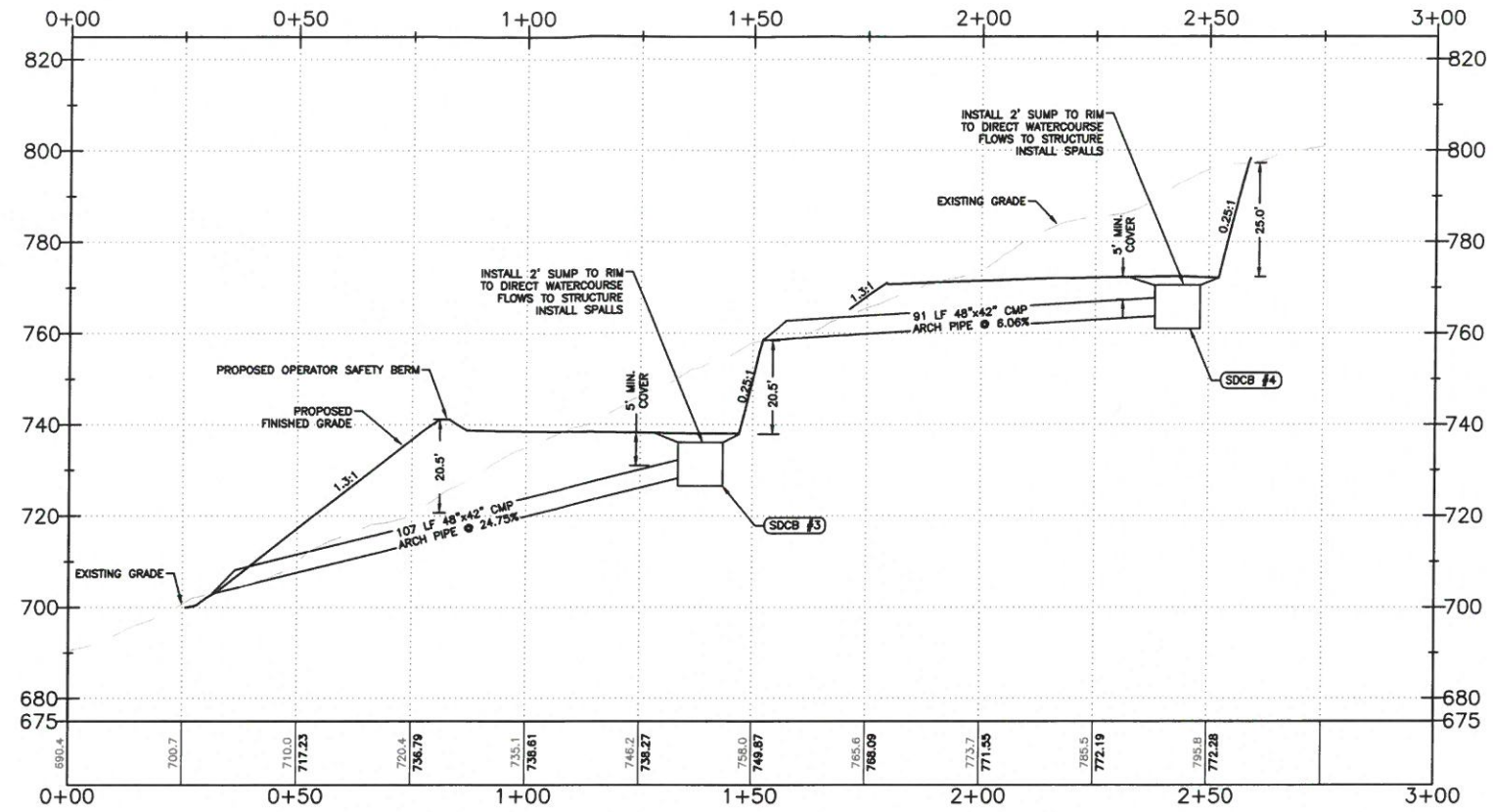


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WATERCOURSE CROSSING SECTION C-C

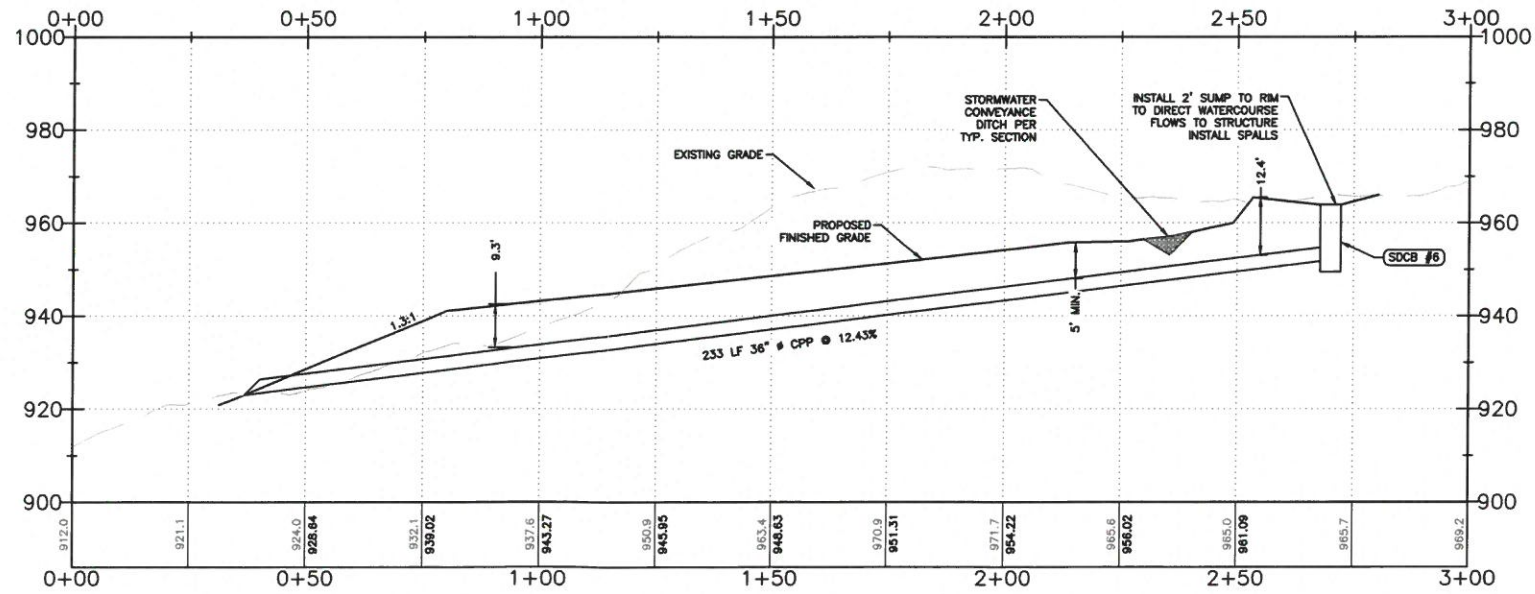
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SECTION D-D'
H. SCALE: 1"=20' V. SCALE: 1"=20'



SECTION E-E'
H. SCALE: 1"=20' V. SCALE: 1"=20'

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WATERCOURSE CROSSINGS SECTIONS
 D & E

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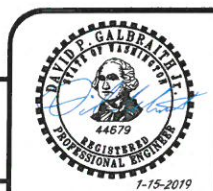


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GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT WSDOT/APWA STANDARD SPECIFICATIONS, APPLICABLE DEVELOPMENT STANDARDS, AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
2. SIGHT DISTANCE REQUIRED AT ALL INTERSECTIONS PER THE CURRENT WSDOT DESIGN MANUAL.
3. A REVOCABLE ENCROACHMENT PERMIT SHALL BE OBTAINED PRIOR TO COMMENCING WORK WITHIN THE RIGHT-OF-WAY.
4. THE CONTRACTOR SHALL CONTACT UTILITY LOCATION SERVICE 48 HOURS PRIOR TO STARTING CONSTRUCTION AT 1-800-424-5555.
5. STORM PIPE SHALL BE AN APPROVED MATERIAL AND SIZE NOTED ON THE PLANS.
6. THE CONTRACTOR SHALL RIP RAP OR SUITABLE NATIVE ROCK ALL CULVERT INLETS AND OUTLETS.
7. CONTRACTOR SHALL SWEEP WITH PICK-UP SWEEPER AND REMOVE ALL DEBRIS TRACKED ONTO EXISTING ROADS DURING ALL PHASES OF CONSTRUCTION.
8. THE CONTRACTOR SHALL INFORM THE PROJECT ENGINEER AND OBTAIN APPROVAL OF ANY PROPOSED CHANGES IN PLANS PRIOR TO CONSTRUCTION OF THE CHANGE. THE CONTRACTOR SHALL KEEP RECORDS OF DEVIATIONS AND FORWARD TO THE PROJECT ENGINEER.
9. TRAFFIC CONTROL IS TO BE MAINTAINED IN ACCORDANCE WITH WSDOT/APWA STANDARD SPECIFICATIONS.
10. A COPY OF THE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROCESS.
11. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
12. WHEN THE CONTRACTOR CONSIDERS THE WORK PHYSICALLY COMPLETE AND READY FOR FINAL INSPECTION, THE CONTRACTOR SHALL REQUEST THAT THE ENGINEER OF RECORD SCHEDULE A FINAL INSPECTION. THE ENGINEER WILL MAKE A FINAL INSPECTION AND NOTIFY THE CONTRACTOR IN WRITING OF ALL PARTICULARS IN WHICH THE FINAL INSPECTION REVEALS THE WORK INCOMPLETE OR UNACCEPTABLE. THE CONTRACTOR SHALL IMMEDIATELY TAKE SUCH CORRECTIVE MEASURES AS ARE NECESSARY TO REMEDY THE LISTED DEFICIENCIES.
13. 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. ALL SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS 1-10 TRAFFIC CONTROL, SHALL APPLY.
14. THE CONTRACTOR SHALL CLEAR, GRUB AND CLEAN UP THOSE AREAS SHOWN ON THE PLANS.
15. THE CONTRACTOR SHALL RAZE, REMOVE AND DISPOSE OF ALL BUILDING AND FOUNDATIONS, STRUCTURES, FENCES AND OTHER OBSTRUCTIONS THAT LIE WHOLLY OR PARTIALLY WITHIN THE PROJECT LIMITS.
16. THE CONTRACTOR SHALL EXCAVATE AND GRADE TO THE ALIGNMENT, GRADE AND CROSS-SECTIONS SHOWN IN THE PLANS OR ESTABLISHED BY THE ENGINEER.
17. UNSUITABLE MATERIAL NOT FIT FOR A SUB-GRADE SHALL BE EXCAVATED TO THE BOUNDARIES SET BY THE ENGINEER AND REPLACED WITH A SUITABLE BACKFILL MATERIAL.
18. ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 7-08.3(1). 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. DRAINAGE MATERIALS SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS SECTION 9-05.
19. STORM SEWER PIPE HAVING DIAMETERS GREATER THAN 8" SHALL BE CORRUGATED POLYETHYLENE PIPE (CPP) AND SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS, SECTION 9-05.20. STORM SEWER PIPE HAVING DIAMETERS 8" AND SMALLER SHALL BE POLYVINYL CHLORIDE (PVC) PIPE, ASTM D 3034, SDR 35, AND SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS, SECTION 9-05.12(1).
20. PAVEMENTS
 - A. A TACK COAT OF ASPHALT SHALL BE APPLIED BETWEEN ALL COURSES OF ASPHALT.
 - B. ALL PAVEMENT REPAIR SHALL BE SAW-CUT BEFORE REMOVAL. AR-4000W SHALL BE APPLIED TO ALL EDGES OF EXISTING PAVEMENT.
 - C. WHERE NEWLY CONSTRUCTED PAVING MEETS EXISTING PAVING, THE APPLICANT SHALL PROVIDE A SMOOTH TRANSITION FROM EXISTING TO PROPOSED PAVING. CONTRACTOR SHALL BUTT JOINT PER DIMENSIONS SPECIFIED ON THE PLANS.
 - D. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD.

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GENERAL NOTES

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TEMPORARY EROSION/SEDIMENTATION CONTROL

1. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
2. APPROVAL OF THESE TEMPORARY EROSION/SEDIMENTATION CONTROL (TESC) PLANS 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.).
3. THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
4. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
5. THE TESC FACILITIES SHOWN ON THE PLANS MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
6. THE TESC FACILITIES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS.
7. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. A RECORD OF EACH INSPECTION AND ANY CORRECTIVE ACTION TAKEN MUST BE RETAINED WITH THE SWPPP.
8. THE TESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT WITH THE APPROVAL OF THE ENGINEER.
9. AT NO TIME SHALL MORE THAN ONE 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.
10. STABILIZED CONSTRUCTION ENTRANCES AND WASH PADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
11. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANK, DETENTION VAULT, OR SYSTEM WHICH BACKS UNDER OR INTO A POND SHALL BE USED AS A TEMPORARY SETTLING BASIN.
12. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (E.G. ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 120 POUNDS PER ACRE).
13. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF TWO INCHES.
14. ALL EROSION/SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING 6 INCHES MUST HAVE SLOPES NOT STEEPER THAN 3H:1V.
15. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
16. EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS IN THESE PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND LOCAL JURISDICTIONAL AUTHORITY.

NPDES NOTES

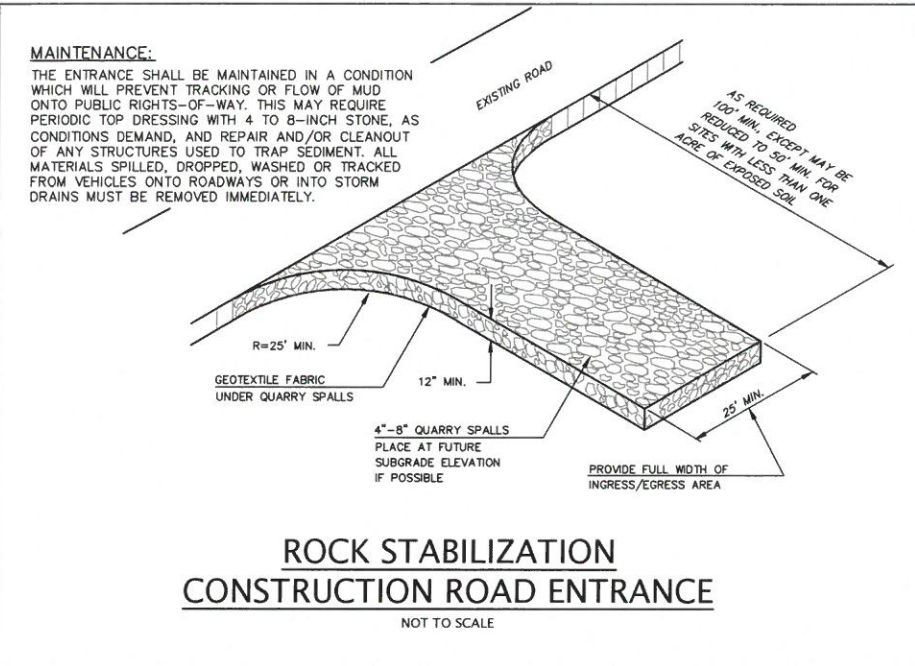
1. THE CONTRACTOR SHALL KEEP A RECORD OF THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE IMPLEMENTED.
2. ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED, MAINTAINED AND REPAIRED BY THE CONTRACTOR AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL ON SITE EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES PER 24 HOUR PERIOD. AN INSPECTION REPORT FILE SHALL BE MAINTAINED BY THE CONTRACTOR FOR EACH INSPECTION.

SEEDING NOTES

1. SEEDBED PREPARATION MAY INCLUDE THE FOLLOWING:
 - A. IF INFERTILE OR COARSE TEXTURED SUBSOIL WILL BE EXPOSED DURING GRADING, STOCKPILE TOPSOIL AND RE-SPREAD IT OVER THE FINISHED SLOPE AND ROLL IT TO PROVIDE A FIRM BASE.
 - B. IF CONSTRUCTION FILLS HAVE LEFT SOIL EXPOSED WITH A LOOSE, ROUGH OR IRREGULAR SURFACE, TRACK WALK UP SLOPE.
 - C. IF CUTS OR CONSTRUCTION EQUIPMENT HAVE LEFT A TIGHTLY COMPACTED SURFACE, BREAK WITH CHISEL PLOW OR OTHER SUITABLE EQUIPMENT.
 - D. PERFORM ALL CULTURAL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPES (CONTOURED). THE SEEDBED SHOULD BE FIRM WITH A FAIRLY FINE SURFACE AFTER ROUGHENING.
2. FERTILIZATION - AS PER SUPPLIER'S RECOMMENDATIONS. DEVELOPMENTS ADJACENT TO WATER BODIES MUST USE NON-PHOSPHOROUS FERTILIZER.
3. HYDROSEEDING APPLICATIONS WITH APPROVED SEED-MULCH-FERTILIZER MIXTURES MAY ALSO BE USED.
4. SEEDING - APPLY APPROPRIATE MIXTURE TO THE PREPARED SEEDBED AT A RATE OF 120 LBS/ACRE. COVER THE SEED WITH TOPSOIL OR MULCH NO DEEPER THAN ONE-HALF INCH.

SEED MIX	VEGETATION TYPE (COMMON NAME)	PROPORTIONS BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
TEMPORARY EROSION CONTROL*	CHEWINGS OR RED FESCUE	40%	98	90
	PERENNIAL RYE	50%	98	90
	REDFEATHER OR COLONIAL BENTGRASS	5%	92	85
	WHITE DUTCH CLOVER	5%	98	90
LOW GROW*	DWARF TALL FESCUE VAR.	45%	98	90
	DWARF PERENNIAL RYE (BARCLAY)	30%	98	90
	RED FESCUE	20%	98	90
	COLONIAL BENTGRASS	5%	98	90

*ADOPTED FROM WSDOE 2014 STORMWATER MANAGEMENT MANUAL WESTERN WASHINGTON, VOLUME II, BMP C120



MAINTENANCE:

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 4 TO 8-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

ROCK STABILIZATION CONSTRUCTION ROAD ENTRANCE
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STORMWATER POLLUTION PREVENTION PLAN - 13 ELEMENTS

ELEMENT #1 ~ MARK CLEARING LIMITS
 PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE LIMITS OF THE CLEARING AREA WILL BE MARKED IN THE FIELD.
 THE MINIMUM REQUIRED SOIL STABILIZING BMP'S ARE:
 C101: PRESERVE NATURAL VEGETATION
 C102: BUFFER ZONES

ELEMENT #2 ~ ESTABLISH CONSTRUCTION ACCESS
 ACCESS POINTS SHALL BE STABILIZED WITH A PAD OF QUARRY SPALLS, CRUSHED ROCK, OR OTHER EQUIVALENT BMPs, TO MINIMIZE TRACKING OF SEDIMENT ONTO PUBLIC ROADS. IF SEDIMENT IS TRACKED OFF SITE, THE AFFECTED ROADWAY WILL BE CLEANED THOROUGHLY AT THE END OF EACH DAY, OR MORE FREQUENTLY AS NECESSARY (FOR EXAMPLE, DURING WET WEATHER). SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING, SWEEPING, OR PICK UP AND TRANSPORT THE SEDIMENT TO A CONTROLLED SEDIMENT DISPOSAL AREA.
 THE MINIMUM REQUIRED SOIL STABILIZING BMP'S ARE:
 C105: STABILIZED CONSTRUCTION ENTRANCE
 C125: TOPSOILING

ELEMENT #3 ~ CONTROL FLOW RATES
 PROPERTIES AND WATERWAYS DOWNSTREAM OF DEVELOPMENT SITES SHALL BE PROTECTED FROM EROSION AND THE ASSOCIATED DISCHARGE OF TURBID WATERS DUE TO INCREASES IN THE VELOCITY AND PEAK VOLUMETRIC FLOW RATE OF STORMWATER RUNOFF FROM THE PROJECT SITE. ALL STORMWATER RUNOFF WILL BE 100% INFILTRATED INTO THE EXISTING SITE.

ELEMENT #4 ~ INSTALL SEDIMENT CONTROLS
 SEDIMENT PONDS WILL BE INSTALLED AS ONE OF THE FIRST STEPS IN GRADING. STORMWATER RUNOFF FROM THE DISTURBED PORTIONS OF THE SITE SHALL BE ROUTED THROUGH STABILIZED CHANNELS, INCLUDING CHECK DAMS.
 THE MINIMUM REQUIRED BMP ARE:
 C208: GRAVEL CHECK DAM

ELEMENT #5 ~ STABILIZE SOILS
 ALL EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY APPLICATIONS OF EFFECTIVE BMP'S THAT PROTECT THE SOIL FROM THE EROSIIVE FORCES OF RAINDROP IMPACT AND FLOWING WATER, AND WIND EROSION. SOIL STOCKPILES MUST BE STABILIZED FROM EROSION, PROTECTED WITH SEDIMENT TRAPPING MEASURES, AND WHEN POSSIBLE, BE LOCATED AWAY FROM STORM DRAIN INLETS, WATERWAYS, AND DRAINAGE CHANNELS.
 THE MINIMUM REQUIRED SOIL STABILIZING BMP'S ARE:
 C101: PRESERVE NATURAL VEGETATION
 C140: DUST CONTROL
 C130: SURFACE ROUGHENING

ELEMENT #6 ~ PROTECT SLOPES
 CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES, CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS. CHECK DAMS SHALL BE PLACED AT REGULAR INTERVALS WITHIN CHANNELS THAT ARE CUT DOWN A SLOPE. SOILS ON SLOPES SHALL BE STABILIZED ACCORDING TO ELEMENT #5 ABOVE. IN ADDITION TO BMPs LISTED IN ELEMENT #5 ABOVE, THE MINIMUM REQUIRED SLOPE PROTECTION BMP'S ARE:
 C130: SURFACE ROUGHENING

ELEMENT #7 ~ PROTECT DRAIN INLETS
 STORM DRAIN INLETS WILL BE MADE OPERABLE DURING CONSTRUCTION. CLEAN STRUCTURES WHEN SEDIMENT HAS DEPOSITED IN THE STRUCTURE.

ELEMENT #8 ~ STABILIZE CHANNELS AND OUTLETS
 OPEN CHANNELS SHALL BE STABILIZED USING ARMORING MATERIAL, ADEQUATE TO PREVENT EROSION OF OUTLETS, ADJACENT STREAMBANKS, SLOPES, AND DOWNSTREAM REACHES. CHECK DAMS SHALL BE INSTALLED FIFTY FEET ON CENTER IN ALL OPEN DITCHES.
 THE MINIMUM REQUIRED SLOPE PROTECTION BMP'S ARE:
 C207: CHECK DAMS
 C209: ROCK LINING OUTLET PROTECTION

ELEMENT #9 ~ CONTROL POLLUTANTS
 ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON-SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER. THE MINIMUM REQUIRED BMP'S ARE:
 C152: SAWCUTTING AND SURFACE POLLUTION PREVENTION

ELEMENT #10 ~ CONTROL DE-WATERING
 DEWATERING IS NOT ANTICIPATED ON THIS PROJECT.

ELEMENT #11 ~ MAINTAIN BMPs
 ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPs SHALL BE INSPECTED WEEKLY, MAINTAINED AND REPAIRED AS REQUIRED TO ASSURE CONTINUED PERFORMANCE. TEMPORARY EROSION AND SEDIMENT BMP'S SHALL BE REMOVED WITHIN 30 DAYS OF FINAL SITE STABILIZATION.
 C150: MATERIALS ON HAND

ELEMENT #12 ~ MANAGE THE PROJECT
 BMPs SHALL BE INSPECTED, MAINTAINED AND REPAIRED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. THE SWPPP SHALL BE MAINTAINED AND IMPLEMENTED AS NEEDED.

ELEMENT #13 ~ PROTECT LOW IMPACT DEVELOPMENT BMPs
 PROTECT ALL BIORETENTION AND RAIN GARDEN BMPs FROM SEDIMENTATION THROUGH INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL BMPs ON PORTIONS OF THE SITE THAT DRAIN INTO THE BIORETENTION AND/OR RAIN GARDEN BMPs. RESTORE THE BMPs TO THEIR FULLY FUNCTIONING CONDITION IF THEY ACCUMULATE SEDIMENT DURING CONSTRUCTION. RESTORING THE BMP MUST INCLUDE REMOVAL OF SEDIMENT AND ANY SEDIMENT-LADEN BIORETENTION/RAIN GARDEN SOILS, AND REPLACING THE REMOVED SOILS WITH SOILS MEETING THE DESIGN SPECIFICATION.
 PREVENT COMPACTING BIORETENTION AND RAIN GARDEN BMPs BY EXCLUDING CONSTRUCTION EQUIPMENT AND FOOT TRAFFIC. PROTECT COMPLETED LAWN AND LANDSCAPED AREAS FROM COMPACTION DUE TO CONSTRUCTION EQUIPMENT.
 CONTROL EROSION AND AVOID INTRODUCING SEDIMENT FROM SURROUNDING LAND USES ONTO PERMEABLE PAVEMENTS. DO NOT ALLOW MUDDY CONSTRUCTION EQUIPMENT ON THE BASE MATERIAL OR PAVEMENT. DO NOT ALLOW SEDIMENT-LADEN RUNOFF ONTO PERMEABLE PAVEMENTS.
 PAVEMENTS FOULED WITH SEDIMENTS OR NO LONGER PASSING AN INITIAL INFILTRATION TEST MUST BE CLEANED USING PROCEDURES FROM THE LOCAL STORMWATER MANUAL OR THE MANUFACTURER'S PROCEDURES.
 KEEP ALL HEAVY EQUIPMENT OFF EXISTING SOILS UNDER LID FACILITIES THAT HAVE BEEN EXCAVATED TO FINAL GRADE TO RETAIN THE INFILTRATION RATE OF THE SOILS.

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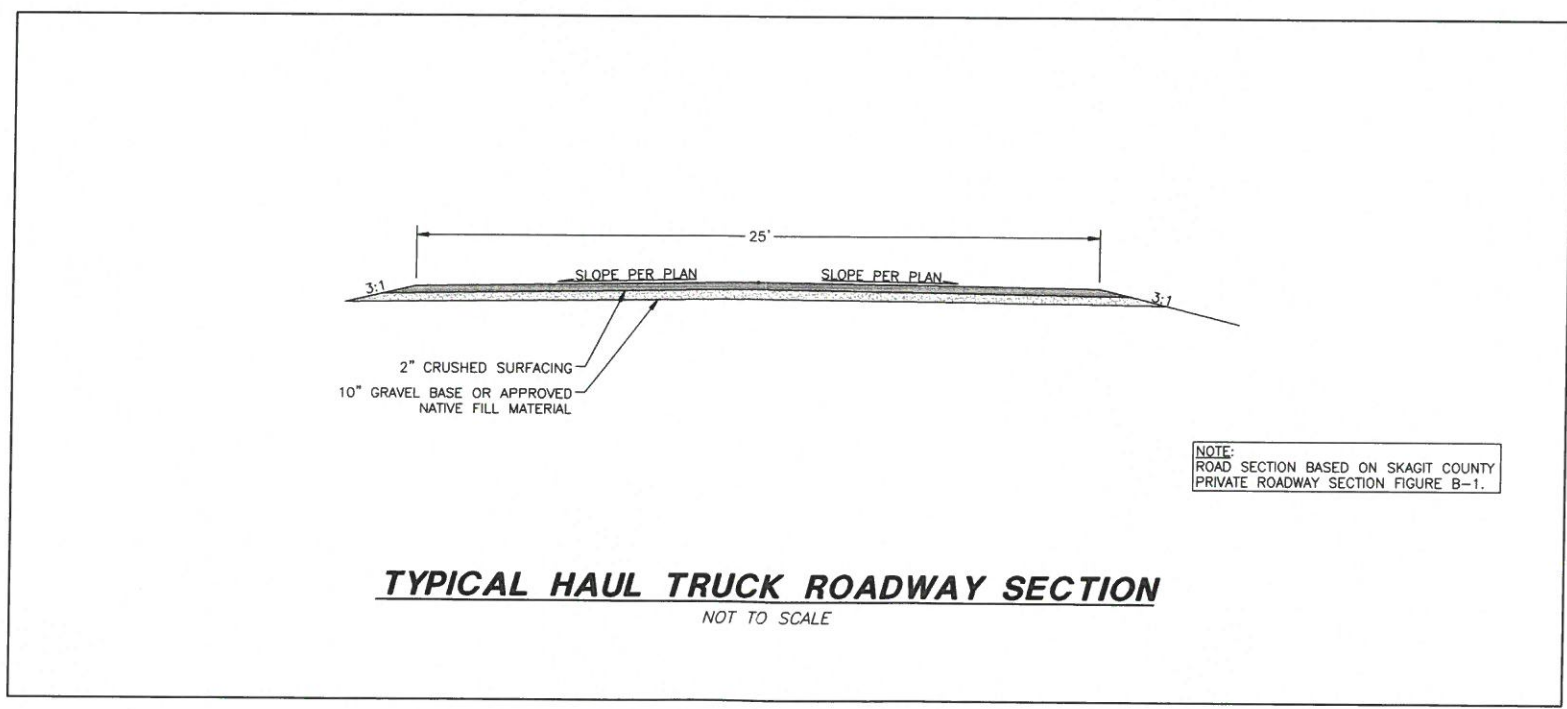
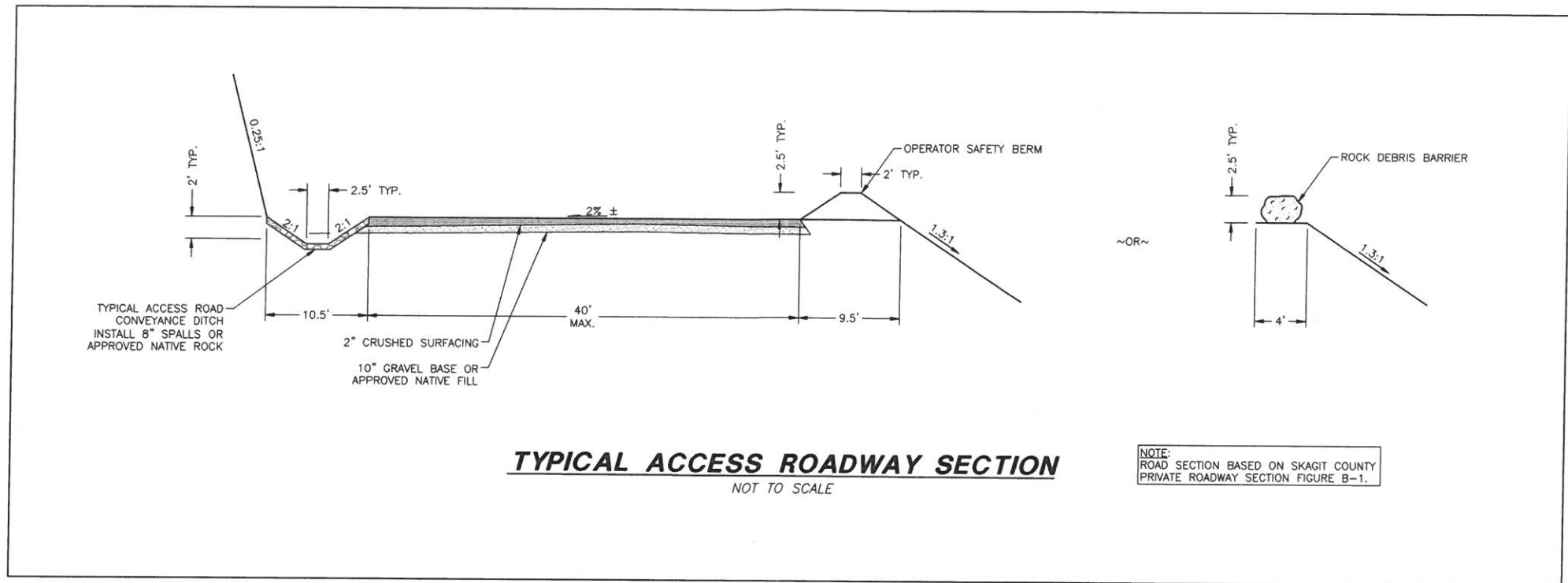
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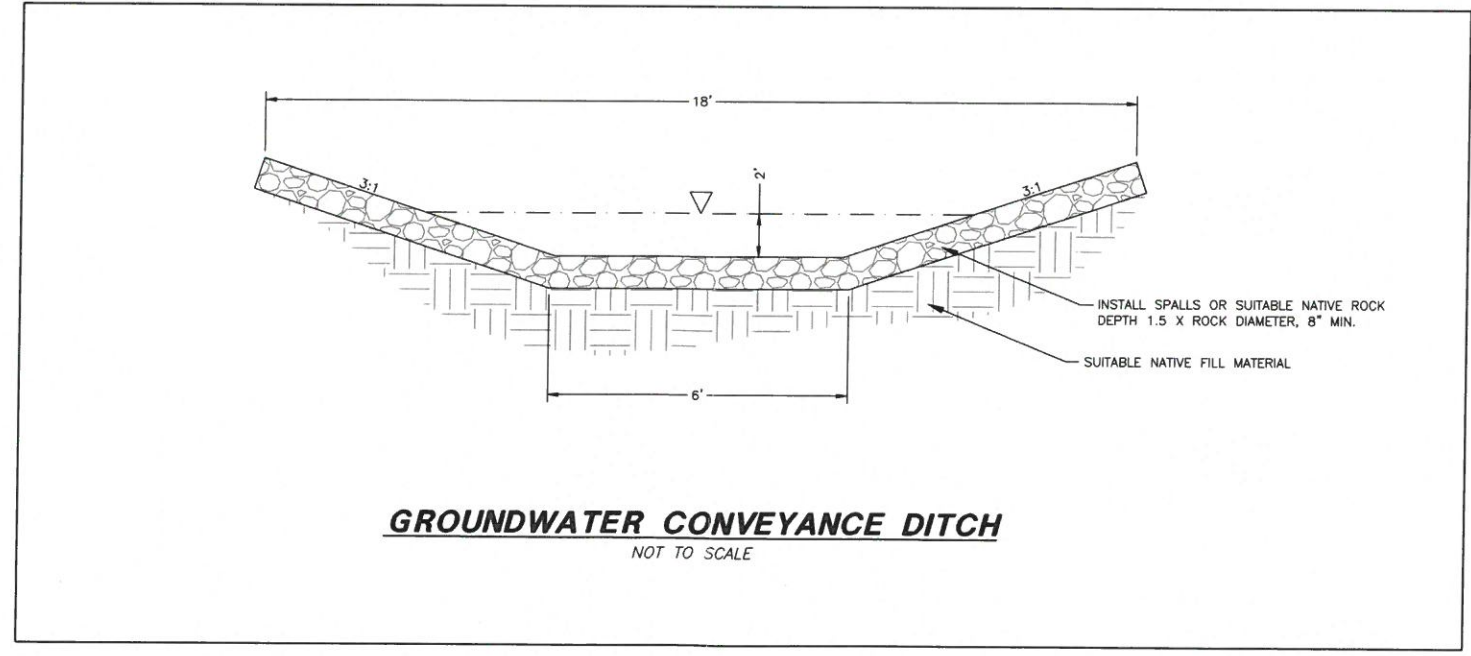
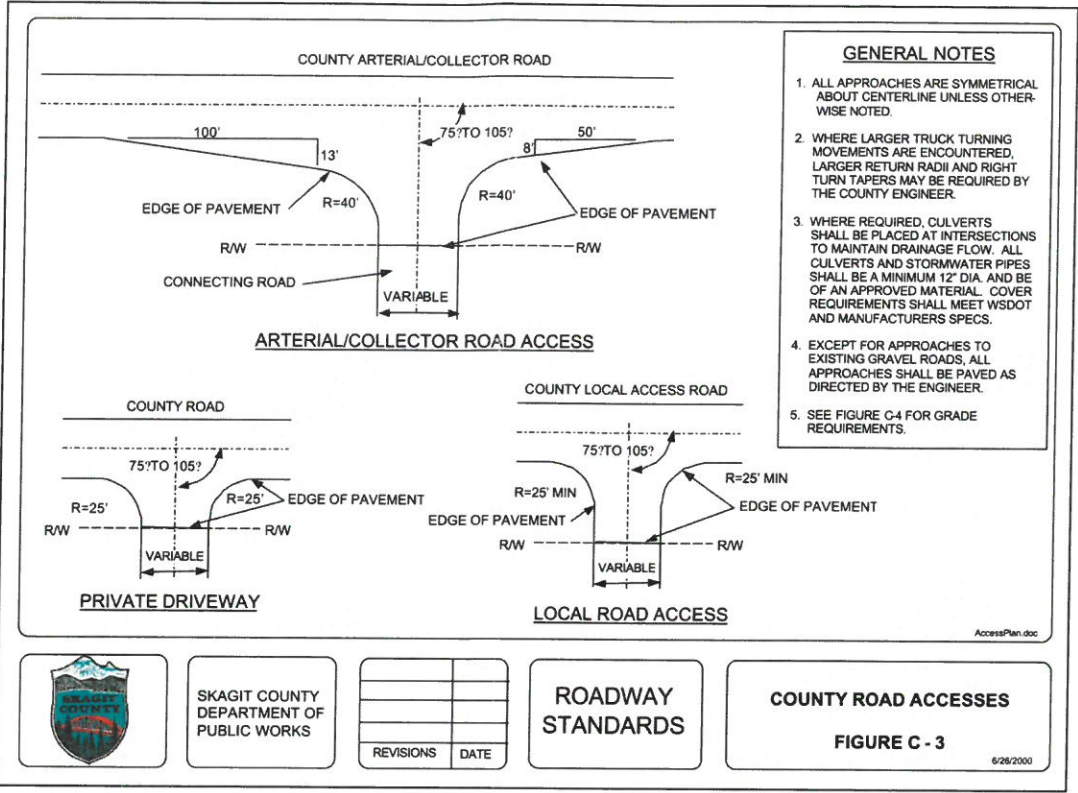
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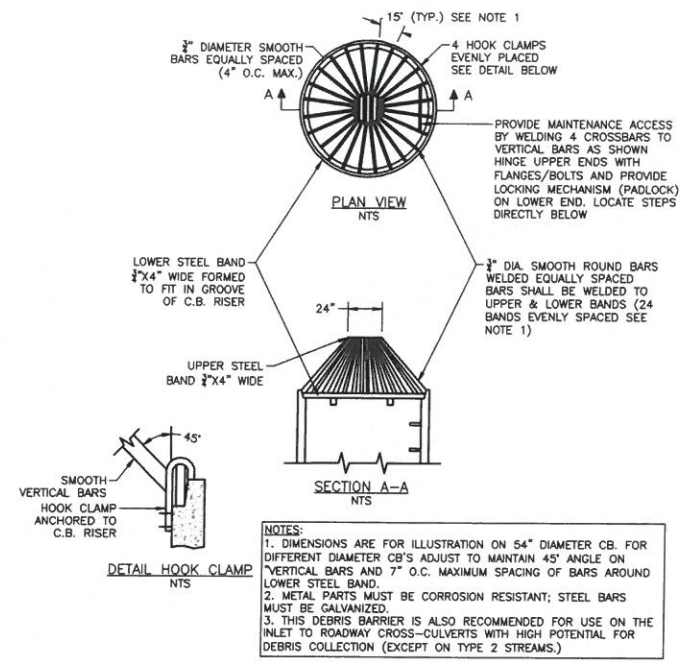
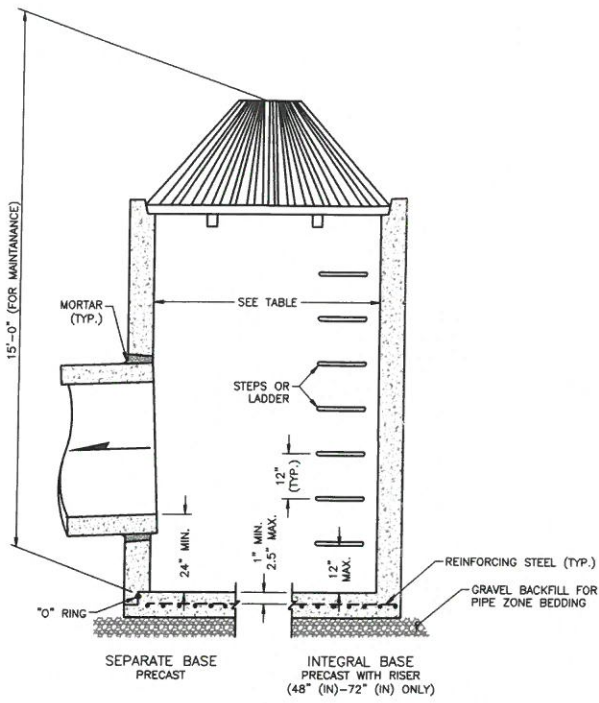
NOTES

- No steps are required when height is 4' or less.
- The bottom of the precast catch basin may be sloped to facilitate cleaning.
- The rectangular frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
- Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3.

CATCH BASIN DIMENSIONS				
CATCH BASIN DIAMETER	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"
120"	10"	12"	96"	12"
144"	12"	12"	108"	12"

PIPE ALLOWANCES					
CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER				
	CONCRETE	ALL METAL	CPSSP (1)	SOLID WALL PVC (2)	PROFILE WALL PVC (3)
48"	24"	30"	24"	30"	30"
54"	30"	36"	30"	36"	36"
60"	36"	42"	36"	42"	42"
72"	42"	54"	42"	48"	48"
84"	54"	60"	54"	48"	48"
96"	60"	72"	60"	48"	48"
120"	66"	84"	60"	48"	48"
144"	78"	96"	60"	48"	48"

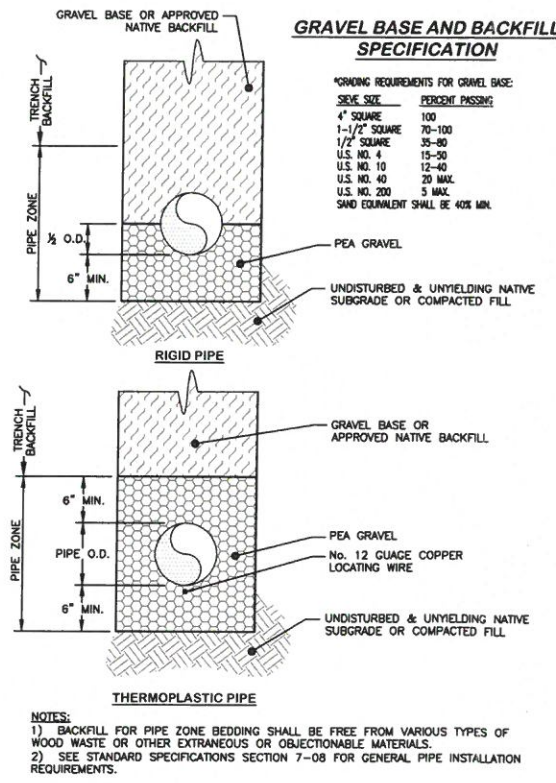
- (1) Corrugated Polyethylene Storm Sewer Pipe (See Standard Specification Section 9-05.20)
 (2) (See Standard Specification Section 9-05.12(1))
 (3) (See Standard Specification Section 9-05.12(2))
 (4) Polypropylene Pipe (See Standard Specification Section 9-05.24)



- NOTES:**
 1. DIMENSIONS ARE FOR ILLUSTRATION ON 54\"/>

OPEN TOP BIRDCAGE CATCH BASIN DETAIL

NOT TO SCALE



- NOTES:**
 1) BACKFILL FOR PIPE ZONE BEDDING SHALL BE FREE FROM VARIOUS TYPES OF WOOD WASTE OR OTHER EXTRANEIOUS OR OBJECTIONABLE MATERIALS.
 2) SEE STANDARD SPECIFICATIONS SECTION 7-08 FOR GENERAL PIPE INSTALLATION REQUIREMENTS.

PIPE ZONE BEDDING AND BACKFILL SPECIFICATIONS

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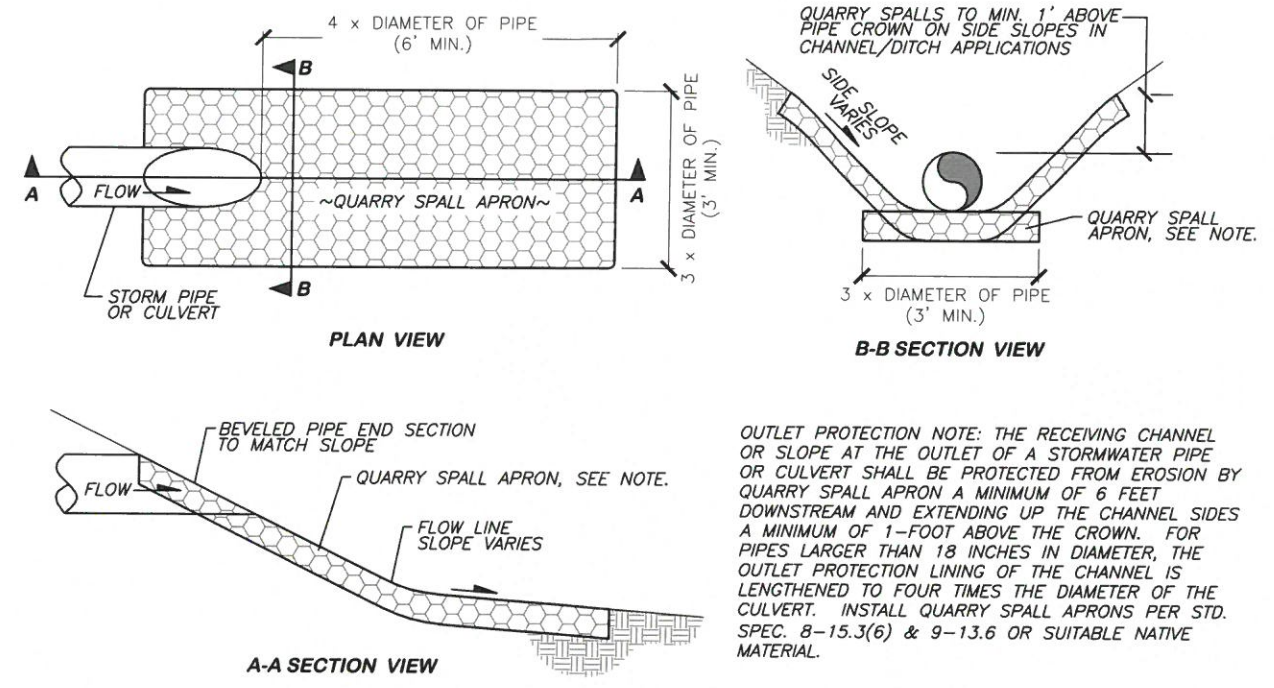
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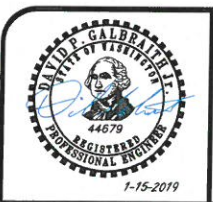
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OUTLET PROTECTION NOTE: THE RECEIVING CHANNEL OR SLOPE AT THE OUTLET OF A STORMWATER PIPE OR CULVERT SHALL BE PROTECTED FROM EROSION BY QUARRY SPALL APRON A MINIMUM OF 6 FEET DOWNSTREAM AND EXTENDING UP THE CHANNEL SIDES A MINIMUM OF 1-FOOT ABOVE THE CROWN. FOR PIPES LARGER THAN 18 INCHES IN DIAMETER, THE OUTLET PROTECTION LINING OF THE CHANNEL IS LENGTHENED TO FOUR TIMES THE DIAMETER OF THE CULVERT. INSTALL QUARRY SPALL APRONS PER STD. SPEC. 8-15.3(6) & 9-13.6 OR SUITABLE NATIVE MATERIAL.

OUTLET PROTECTION DETAIL
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