

NEVADA TAHOE CONSERVATION DISTRICT

BURKE CREEK HIGHWAY 50 CROSSING AND REALIGNMENT PROJECT - PHASE 1

IN THE COUNTY OF DOUGLAS

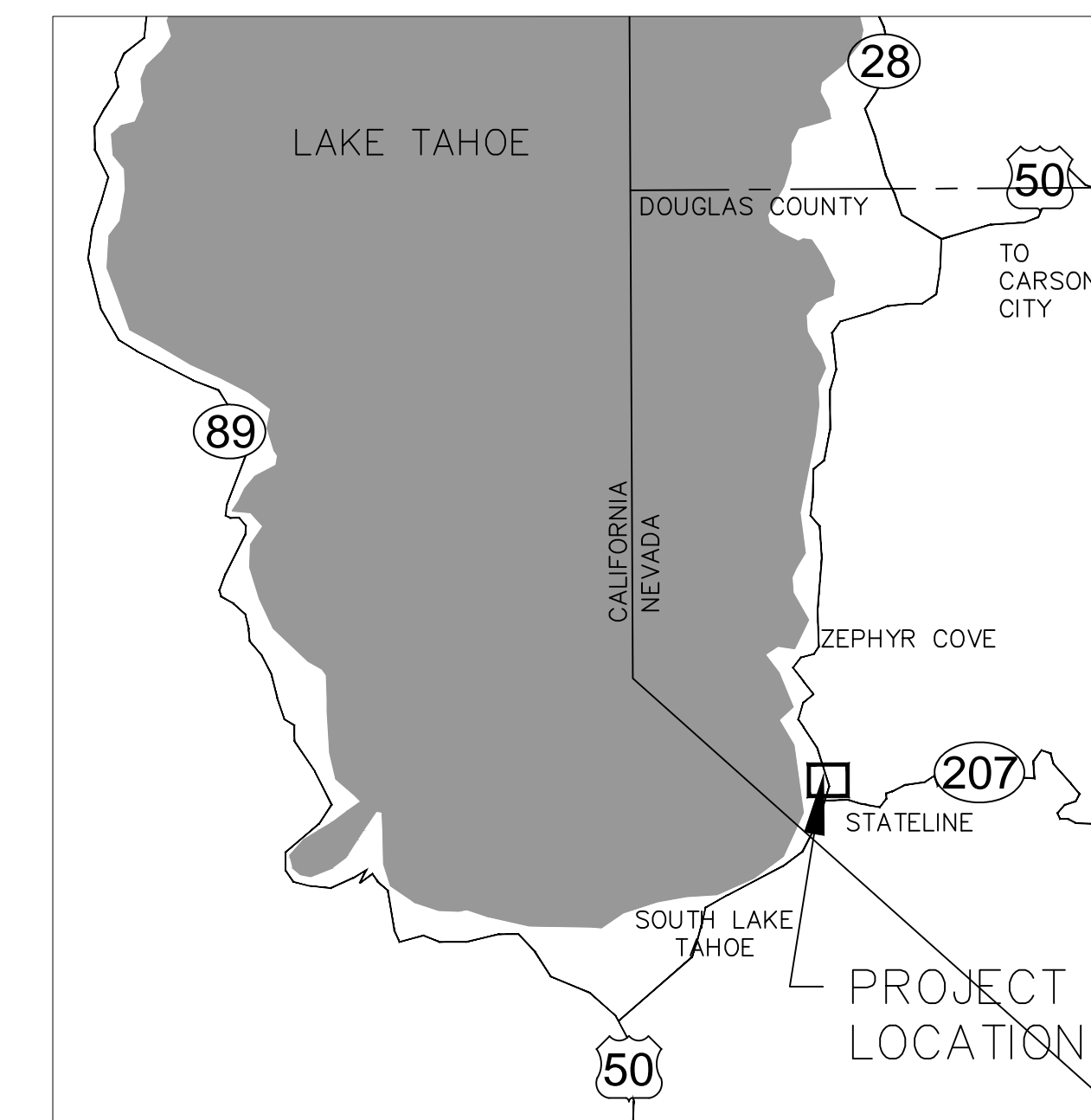


PLAN

SCALE: 1" = 150'

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VICINITY MAP

NOT TO SCALE

ENGINEER:

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DATE

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ERIK NILSSEN, P.E.
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 DOUGLAS COUNTY, NEVADA

DATE

MATTHEW NUSSBAUMER, P.E.
 PRINCIPAL HYDRAULIC ENGINEER
 NEVADA DEPARTMENT OF TRANSPORTATION

DATE

TITLE
 BURKE CREEK HWY 50 CROSSING AND
 REALIGNMENT PROJECT
 PHASE 1

DESIGNED/DRAWN

MK/MK

CHECKED

MG

DATE

03/11/2016

SCALE

AS SHOWN

PROJECT

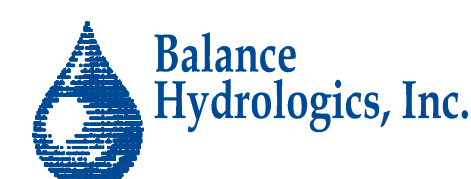
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SHEET

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1 OF 25

90% DESIGN PLANS
 NOT FOR CONSTRUCTION



GENERAL NOTES

- ALL IMPROVEMENTS SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION, AND TO THE SATISFACTION OF NEVADA TAHOE CONSERVATION DISTRICT (NTCD) & THE NEVADA DEPARTMENT OF TRANSPORTATION (NDOT). IMPROVEMENT CONSTRUCTION SHALL COMPLY WITH THESE PLANS AND THE MOST RECENT STANDARD SPECIFICATIONS & PLANS FOR ROAD & BRIDGE CONSTRUCTION ("STANDARD SPECIFICATIONS"), AND CONSTRUCTION NOT SPECIFIED IN THESE PLANS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. THE CONTRACTOR IS OBLIGATED TO BE FAMILIAR WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS NOT DISCUSSED IN THE GENERAL NOTES. THE CONTRACT SPECIAL TECHNICAL PROVISIONS SHALL SUPERSEDE THOSE OF THE STANDARD SPECIFICATIONS WHERE DISCREPANCIES OCCUR.
- CONTRACTOR SHALL MAINTAIN A SET OF PLANS ON SITE SHOWING "AS CONSTRUCTED" CHANGES. UPON COMPLETION, CONTRACTOR SHALL SUPPLY NDOT, DOUGLAS COUNTY, AND NTCD A SET OF "AS BUILT" PLANS. SEE SPECIAL PROVISIONS.
- MOBILIZATION/STAGING AND STORAGE AREAS ARE TO BE SECURED BY THE CONTRACTOR AND APPROVED BY TRPA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF MOBILIZATION SITES, INCLUDING PLACEMENT AND MAINTENANCE OF BMPs.
- PRIOR TO STARTING WORK, THE CONTRACTOR SHALL INSTALL TEMPORARY BMP MEASURES AT LOCATIONS WHERE NEEDED TO CONTROL EROSION AND WATER POLLUTION DURING THE CONSTRUCTION OF THE PROJECT. THE BMP MEASURES SHALL REMAIN IN PLACE AND SHALL BE MAINTAINED IN A FUNCTIONAL CONDITION FOR THE DURATION OF THE CONSTRUCTION. DURING CONSTRUCTION ENVIRONMENTAL PROTECTION DEVICES, SUCH AS EROSION CONTROL, DUST CONTROL, AND VEGETATION PROTECTION DEVICES SHALL BE MAINTAINED AT ALL TIMES. SILT FENCE IS REQUIRED AT ALL CROSS DRAIN OUTLETS. SILT FENCE OR SEDIMENT LOGS WILL BE REQUIRED AT OTHER LOCATIONS AS SHOWN ON THE DRAWINGS OR STAKED IN THE FIELD BY THE ENGINEER. ALL EROSION CONTROL MEASURES SHALL MEET OR EXCEED TRPA REQUIREMENTS.
- ALL EXISTING VEGETATION SHALL BE PRESERVED UNLESS SPECIFICALLY IDENTIFIED BY THE ENGINEER FOR REMOVAL. BMP'S TO PROTECT VEGETATION SHALL BE INSTALLED BY THE CONTRACTOR IF REQUIRED BY TRPA. CONTRACTOR TO REVEGETATE ANY AREAS OUTSIDE THE DISTURBED AREA SHOWN ON THE PLANS WITH PLANTS APPROVED BY TRPA AT THEIR OWN EXPENSE.
- NTCD WILL PROVIDE ONE SET OF CONSTRUCTION STAKES AT NTCD'S EXPENSE. ADDITIONAL CONSTRUCTION STAKES WILL BE PROVIDED AT THE CONTRACTOR'S EXPENSE. LIMITS FOR ALL ITEMS OF WORK SHALL BE STAKED IN THE FIELD BY THE ENGINEER. THESE LIMITS AND THE RESULTING TREATMENT LENGTH/AREAS MAY VARY FROM THOSE SHOWN ON THE DRAWINGS. PAYMENT FOR ITEMS OF WORK WILL BE MADE FOR THE AMOUNT AUTHORIZED BY THESE FIELD STAKED LIMITS AND THE SPECIAL TECHNICAL PROVISIONS.
- UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. WHERE EXCAVATION IS NECESSARY, THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AND ALL AFFECTED UTILITY COMPANIES TO LOCATE ALL BURIED UTILITIES AT LEAST 48 HOURS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR RELOCATION OF UTILITIES AS REQUIRED BY THE WORK. WHENEVER CONNECTIONS TO OR CLEARANCE FROM ANY UTILITY IS REQUIRED, THE CONTRACTOR SHALL POTHOLE TO VERIFY THE LOCATION, SIZE AND MATERIAL OF THE UTILITY PRIOR TO CONSTRUCTION.
- ASPHALT REPLACEMENT SHALL INCORPORATE A 4% ±1% CROSS SLOPE BETWEEN THE SAWCUT AND THE NEW ROADSIDE TREATMENT. NEW ROADSIDE FLOW CONVEYANCES SHALL INCORPORATE SUCH GRADE AS NECESSARY TO GUARANTEE WATER CONTINUES TO FLOW IN THE PRESENT DIRECTION, WITHOUT PONDING OR BREAKOUTS.
- ANY DAMAGE DONE BY THE CONTRACTOR OR HIS SUBCONTRACTORS TO PRIVATE PROPERTY AND/OR OUTSIDE OF THE NOTED LIMITS OF WORK IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND/OR HIS SUBCONTRACTORS.
- NTCD WILL PROVIDE INITIAL TESTING AND INSPECTION OF WORK AND MATERIAL AT NTCD'S EXPENSE. THE COST OF REMOVAL AND/OR REPLACEMENT OF ANY DEFECTIVE WORK OR MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF RETESTING AND/OR INSPECTING OF REPLACED WORK AND MATERIAL IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR. SUCH COSTS WILL BE DEDUCTED FROM ANY MONEYS DUE OR WHICH MAY BECOME DUE TO THE CONTRACTOR.
- STANDARD WORK DAYS SHALL BE MONDAY THROUGH FRIDAY. SATURDAY AND SUNDAY MAY BE WORKED ON OCCASION ONLY TO MAKE UP FOR WEATHER DELAYS OR OTHER SCHEDULE DELAYS. NOISE GENERATING ACTIVITIES WILL BE LIMITED TO THE HOURS OF 8:00 AM TO 6:30 PM.
- NOISE SHALL BE REDUCED BY THE MANDATORY USE OF MUFFLERS ON ALL CONSTRUCTION VEHICLES AND EQUIPMENT. WHERE FEASIBLE, SOLENOIDAL PAVEMENT BREAKERS WILL BE USED IN LIEU OF AIR POWERED JACK HAMMERS. NOISE GENERATING ACTIVITIES WILL BE LIMITED TO THE HOURS OF 8:00 AM TO 6:30 PM.
- THE CONTRACTOR SHALL PROVIDE A WATER TRUCK TO WATER AREAS AS NECESSARY TO CONTROL DUST. THE CONTRACTOR WILL PROVIDE SWEEPING PER SPECIFICATION.
- ALL TREES AND NATURAL VEGETATION TO REMAIN ON THE SITE SHALL BE PROTECTED PER TRPA.
- SOIL AND CONSTRUCTION MATERIAL SHALL NOT BE TRACKED OFF THE CONSTRUCTION SITE. GRADING OPERATIONS SHALL CEASE IN THE EVENT THAT A DANGER OF VIOLATING THIS CONDITION EXISTS.
- LOOSE SOIL MOUNDS OR SURFACES SHALL BE PROTECTED FROM WIND OR WATER EROSION BY BEING APPROPRIATELY COVERED WHEN CONSTRUCTION IS NOT IN ACTIVE PROGRESS OR WHEN REQUIRED BY TRPA.
- EXCAVATED MATERIAL SHALL BE STORED UPGRADE FROM THE EXCAVATED AREA WHENEVER POSSIBLE. NO MATERIAL SHALL BE STORED IN ANY STREAM ENVIRONMENT ZONE (SEZ) OR WET AREA.
- ONLY EQUIPMENT OF A SIZE AND TYPE THAT WILL DO THE LEAST AMOUNT OF DAMAGE, UNDER PREVAILING SITE CONDITIONS, AND CONSIDERING THE NATURE OF THE WORK TO BE PERFORMED, WILL BE USED.
- NO WASHING OF VEHICLES OR HEAVY EQUIPMENT, INCLUDING CEMENT MIXERS, SHALL BE PERMITTED ANYWHERE ON THE SUBJECT PROPERTY UNLESS AUTHORIZED BY TRPA IN WRITING.
- NO VEHICLE OR HEAVY EQUIPMENT SHALL BE ALLOWED IN A STREAM ENVIRONMENT ZONE OR WET AREA EXCEPT AS AUTHORIZED BY TRPA.
- ALL CONSTRUCTION SHALL BE WINTERIZED BY OCTOBER 15 TO REDUCE THE WATER QUALITY IMPACTS ASSOCIATED WITH WINTER WEATHER.
- THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE NDOT RIGHT-OF-WAYS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SYSTEM.
- ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE TRUCKEE MEADOWS CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK.
- TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LONGER THAN 24 HOURS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED.
- AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMP'S WEEKLY, PRIOR TO A FORECASTED RAIN EVENT AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS FROZEN GROUND CONDITIONS OF SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO STORM WATER GENERAL PERMIT NVR100000, SECTION 1.B.1.g. AND THE PROJECT SWPPP

- TRAFFIC CONTROL AND LANE CLOSURES WILL BE PER NDOT STANDARD SPECIFICATIONS.
- ACCESS TO BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION

ABBREVIATIONS

NOT ALL ABBREVIATIONS LISTED ARE USED IN THESE PLANS

A.B.	AGGREGATE BASE	MDD	MAXIMUM DRY DENSITY
AC.	ACRE	MJ	MECHANICAL JOINT
AC OR A.C.	ASPHALT CONCRETE OR ASBESTOS CEMENT	MI.	MILE
⊙	AT	MIN.	MINIMUM
APPROX.	APPROXIMATE	MISC.	MISCELLANEOUS
AVG.	AVERAGE	N	NORTH
AWWA	AMERICAN WATER WORKS ASSOCIATION	NAC	NEVADA ADMINISTRATIVE CODE
BC	BEGIN CURVE	N.I.C.	NOT IN CONTRACT
BGN	BEGIN	NDOT	NEVADA DEPT OF TRANSPORTATION
C&G	CURB AND GUTTER	NTCD	NEVADA TAHOE CONSERVATION DISTRICT
CATV	CABLE TELEVISION	N.T.S.	NOT TO SCALE
C.B.	CATCH BASIN	NO.	NUMBER
CBM	CHANNEL BED MATERIAL	OC	ON CENTER
CL	CENTERLINE	OD	OUTSIDE DIAMETER
CLF	CONSTRUCTION LIMIT FENCE	OFF	OFFSET
CLR.	CLEAR	OG	ORIGINAL GRADE
CO.	CLEAN OUT	OH(E/T)	OVERHEAD ELECTRIC OR TELEPHONE LINES
CONST.	CONSTRUCT	±	PLUS OR MINUS
CF	CUBIC FEET	PT.	POINT
CMP	CORRIGATED METAL PIPE	PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT
CMAP	CORRIGATED METAL ARCH PIPE	PC	POINT OF CURVATURE
CY	CUBIC YARD	PI	POINT OF INFLECTION
DBH	DIAMETER AT BREST HEIGHT	PIP	PROTECT IN PLACE
DEG	DEGREE(S)	PVC	POLYVINYL CHLORIDE
D.G.	DECOMPOSED GRANITE	PVMT	PAVEMENT
DI	DROP INLET	POC	POINT ON CURVE
DIA.	DIAMETER	POS	POSITIVE
DR	DRAIN	PRC	POINT OF REVERSE CURVE
DWG	DRAWING	PSI	POUNDS PER SQUARE INCH
DW, DWY	DRIVEWAY	PL	PROPERTY LINE
EA.	EACH	PO	PUSH ON
EASE.	EASEMENT	PUE	PUBLIC UTILITY EASEMENT
EG	EXISTING GRADE	R	RADIUS
ELEC	ELECTRIC	RCP	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	REVEG	REVEGETATION
ELEV. OR EL	ELEVATION	RLC	ROCK LINED CHANNEL
EC	END CURVE	RT,R	RIGHT
EX.	EXISTING	R/W, ROW	RIGHT-OF-WAY
FG	FINISH GRADE	S	SLOPE OR SOUTH
FH	FIRE HYDRANT	SD	STORM DRAIN
FCA	FLANGE COUPLER ADAPTER	SDMH	STORM DRAIN MANHOLE
FES	FLARED END SECTION (METAL)	SDR	STANDARD DIMENSION RATIO
FF	FILTER FENCE	SF	SQUARE FOOT/FEET
FL	FLOWLINE	SHT	SHEET
FLG	FLANGED	STA	STATION
FT.	FOOT, FEET	STD	STANDARD
FTG	FOOTING	SS	SANITARY SEWER, STAINLESS STEEL
FV	FLUSH VALVE	SSCO.	SANITARY SEWER CLEAN OUT
°	DEGREE	SSMH	SANITARY SEWER MANHOLE
G	GAS	SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS
GV	GATE VALVE	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
GB	GRADE BREAK	SY	SQUARE YARD
HDPE	HIGH DENSITY POLYETHYLENE	TBC	TOP BACK OF CURB
HDPE-NP	NON-PERFORATED HIGH DENSITY POLYETHYLENE	TOC	TOP OF CURB
HDPE-P	PERFORATED HIGH DENSITY POLYETHYLENE	TRPA	TAHOE REGIONAL PLANNING AGENCY
HP	HIGH POINT	TW	TOP OF WALL
HOR., HORIZ.	HORIZONTAL	(TYP)	TYPICAL
HWY	HIGHWAY	UGE	UNDERGROUND ELECTRIC LINES
IN.	INCH	UGT	UNDERGROUND TELEPHONE LINES
IE	INVERT ELEVATION	VC	VERTICAL CURVE
IRR.	IRRIGATION	VG	VALLEY GUTTER
IVGID	INCLINE VILLAGE GENERAL IMPROVEMENT DISTRICT	VPC	VERTICAL POINT OF CURVATURE
L	LEFT	VPI	VERTICAL POINT OF INFLECTION
LEN.	LENGTH	VPT	VERTICAL POINT OF TANGENT
LF	LINEAR FEET	W	WATER
LID	LOW IMPACT DEVELOPMENT	WL	WATERLINE
LP	LOW POINT	W	WEST
LS	LUMP SUM	W/	WITH
MH	MANHOLE	WM	WATER METER
MAX.	MAXIMUM		

UTILITIES

CABLE TELEVISION	CHARTER COMMUNICATIONS, (775) 588-1077
NATURAL GAS	SOUTHWEST GAS, (877) 860-6022
ELECTRIC	NV ENERGY, (775) 834-4444
STORM DRAIN	DOUGLAS COUNTY PUBLIC WORKS (775) 782-9989
SEWER	DOUGLAS COUNTY SEWER IMPROVEMENT DISTRICT (775) 588-3558
WATER	KINGSBURY GID, (775) 588-3548
PHONE	FRONTIER (775) 782-0966
USA DIGS	(800) 642-2444 OR 811

LEGEND

NOTE: LEGENDS PROVIDED ON INDIVIDUAL PLAN SHEETS OVERRIDE THIS LEGEND

EXISTING		PROPOSED	
	MAJOR CONTOUR		MAJOR CONTOUR
	MINOR CONTOUR		MINOR CONTOUR
	EXISTING MAJOR CONTOUR LABEL		PROPOSED MAJOR CONTOUR LABEL
	EXISTING ALIGNMENT		PROPOSED ALIGNMENT(ROAD CENTERLINE)
	EXISTING GRADE (SECTION VIEW)		GRADING DAYLIGHT LINE/GRADING LIMIT
	PROPERTY LINE		GRADING LINE/FEATURE LINE
	EXISTING FENCE		PROPOSED GRADE (SECTION VIEW)
	OR		CONSTRUCTION LIMIT FENCE
	STORM DRAIN LINE		FILTER FENCE
	CATCH BASIN		SEDIMENT ROLL
	STORM DRAIN MANHOLE		EROSION CONTROL BLANKET
	WATER LINE		STAGING AREA
	WATER METER/ VALVE		PROPOSED PIPE
	SANITARY SEWER LINE		PROPOSED CONCRETE
	SANITARY SEWER MANHOLE		PROPOSED VEGETATION/WILLOW
	OVERHEAD ELECTRIC LINE		ROCK LINED CHANNEL (PLAN VIEW)
	POWER POLE		SEDIMENT REMOVAL
	UNDER GROUND TELEPHONE LINES		ROCK (SECTION VIEW)
	OVERHEAD TELEPHONE LINES		ROCK DISSIPATER
	UNDERGROUND FIBER OPTIC LINES		PROJECT BOUNDARY
	UNDERGROUND GAS LINES		PROPOSED FENCE (TYPE SPECIFIED ON PLAN)
	DRAINAGE		
	TREE		
	FIRE HYDRANT		
	CURB		
	OR		
	CONCRETE		
	CONTROL POINT		
	BUILDING		
	PRIVATE DRIVEWAY		
	SIGN		
	ROCK LINED CHANNEL		
	EXISTING ROCK WALL		
125-382-13	ASSESSOR PARCEL NUMBER		
958 TYNER ST.	PHYSICAL ADDRESS (PRIVATE LOT)		

	SECTION OR DETAIL IDENTIFICATION
	NUMBER OF SHEET ON WHICH SECTION OR DETAIL IS DRAWN
	SECTION OR DETAIL IDENTIFICATION
	SYMBOL FOR DETAIL ON THE SAME SHEET

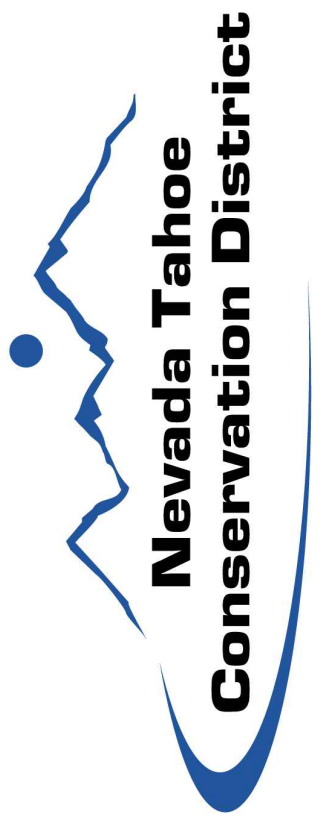
HORIZONTAL AND VERTICAL PROJECTION

VERTICAL CONTROL IS DATUM NGVD 29 US FEET;
HORIZONTAL CONTROL IS NDOT CONTROL LINE LPN 907 HORIZONTAL DATUM NAD 83/94
(aka NAD 83HARN) STATE PLANE COORDINATE SYSTEM NEVADA ZONE WEST (U.S. FEET)
AND MODIFIED TO GROUND COMBINED SCALE FACTOR OF 0.9997370692

90% DESIGN PLANS
NOT FOR CONSTRUCTION

DESIGNED/DRAWN	MK/MK
CHECKED	MG
DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC
SHEET	

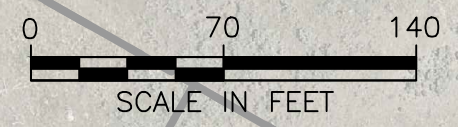
90% DESIGN PLANS
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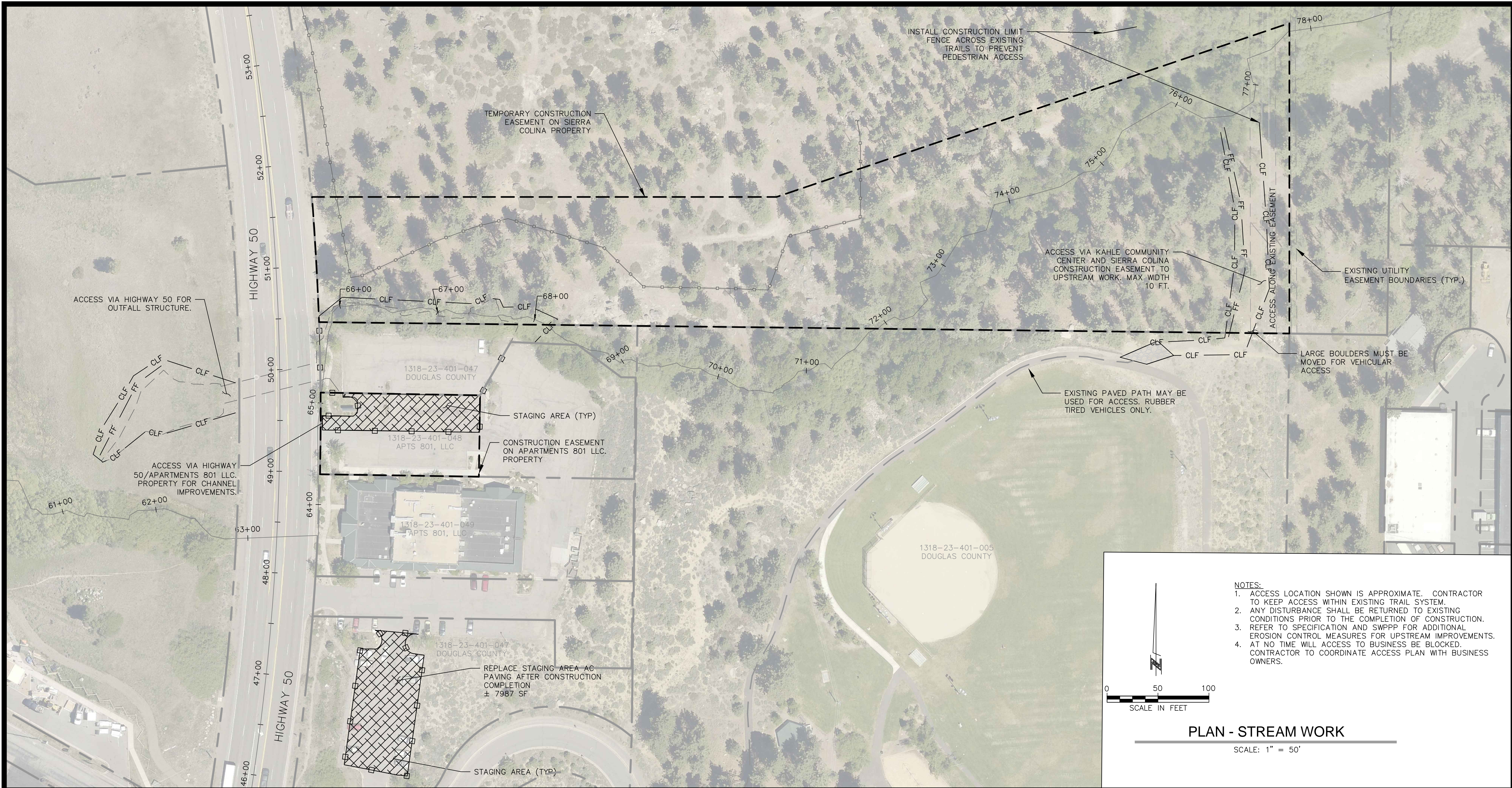


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REALIGNMENT PROJECT
PHASE 1

DESIGNED/DRAWN
MK/MK
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BCC

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PLAN - STREAM WORK

SCALE: 1" = 50'

- NOTES:
1. ACCESS LOCATION SHOWN IS APPROXIMATE. CONTRACTOR TO KEEP ACCESS WITHIN EXISTING TRAIL SYSTEM.
 2. ANY DISTURBANCE SHALL BE RETURNED TO EXISTING CONDITIONS PRIOR TO THE COMPLETION OF CONSTRUCTION.
 3. REFER TO SPECIFICATION AND SWPPP FOR ADDITIONAL EROSION CONTROL MEASURES FOR UPSTREAM IMPROVEMENTS.
 4. AT NO TIME WILL ACCESS TO BUSINESS BE BLOCKED. CONTRACTOR TO COORDINATE ACCESS PLAN WITH BUSINESS OWNERS.



PLAN - NORTHERN DRAINAGE WORK

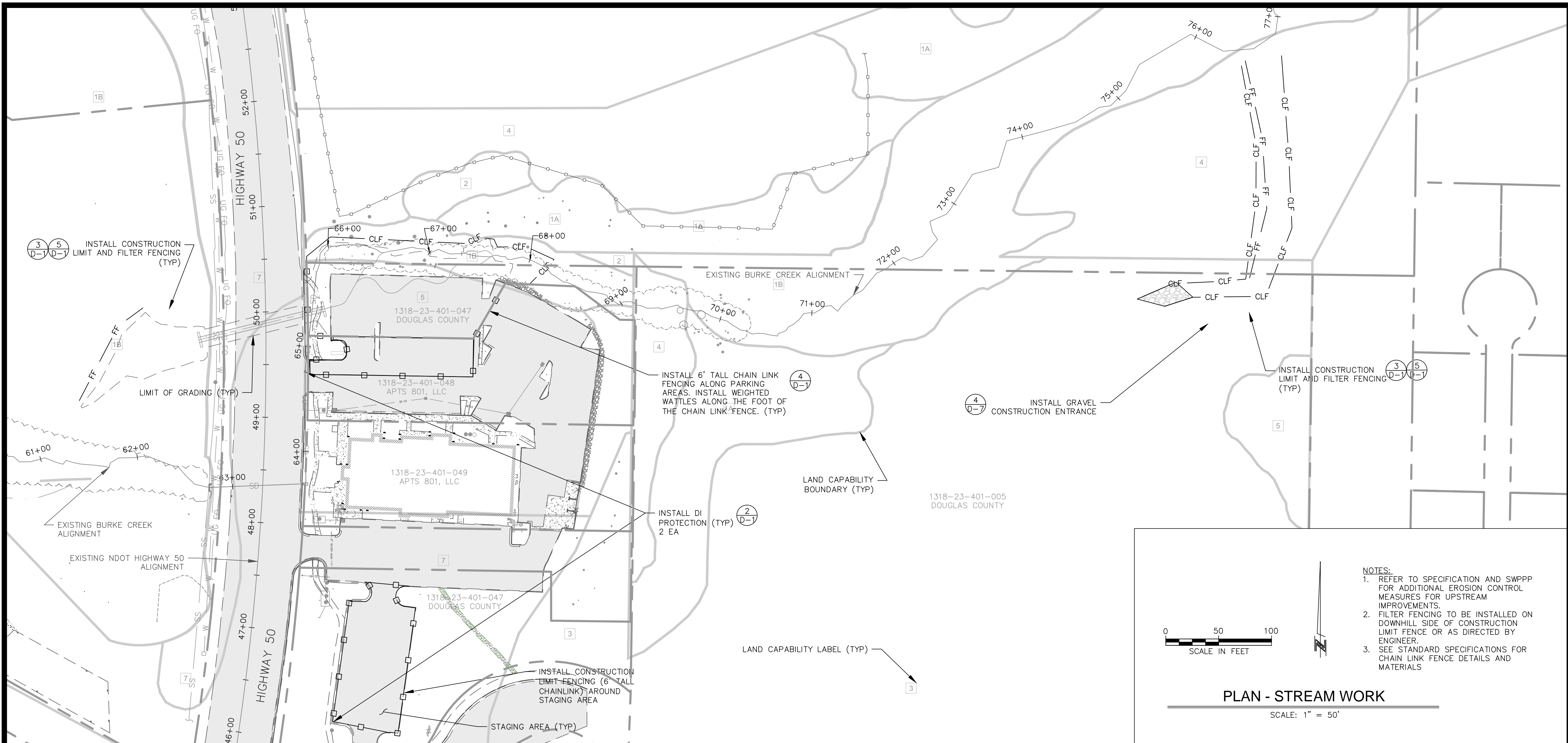
SCALE: 1" = 50'

- NOTES:
1. NO STAGING OR STORAGE WILL BE ALLOWED IN NORTHERN DRAINAGE WORK AREA.
 2. LANE CLOSURES TO PERFORM WORK SHALL BE PER TRAFFIC CONTROL PLAN AND COORDINATED WITH NDOT.

90% DESIGN PLANS
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STAGING, STORAGE, AND ACCESS PLAN
BURKE CREEK HWY 50 CROSSING AND
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DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC



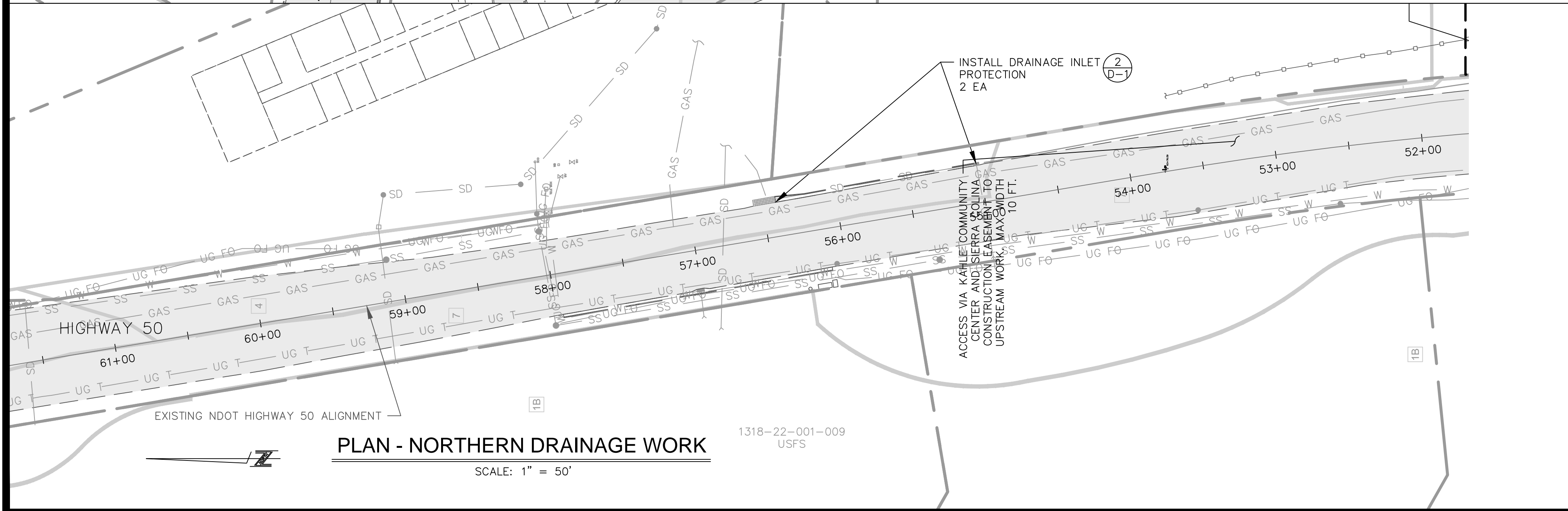
NOTES:

- REFER TO SPECIFICATION AND SWPPP FOR ADDITIONAL EROSION CONTROL MEASURES FOR UPSTREAM IMPROVEMENTS.
- FILTER FENCING TO BE INSTALLED ON DOWNHILL SIDE OF CONSTRUCTION LIMIT FENCE OR AS DIRECTED BY ENGINEER.
- SEE STANDARD SPECIFICATIONS FOR CHAIN LINK FENCE DETAILS AND MATERIALS

SCALE IN FEET

PLAN - STREAM WORK

SCALE: 1" = 50'



PLAN - NORTHERN DRAINAGE WORK

SCALE: 1" = 50'

90% DESIGN PLANS
 NOT FOR CONSTRUCTION

DESIGNED/DRAWN	MK/MK
CHECKED	MG
DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC

DEMOLITION
BURKE CREEK HWY 50 CROSSING AND
REALIGNMENT PROJECT
PHASE 1

DESIGNED/DRAWN
MK/MK
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MG
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03/11/2016
SCALE
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PROJECT
BCC

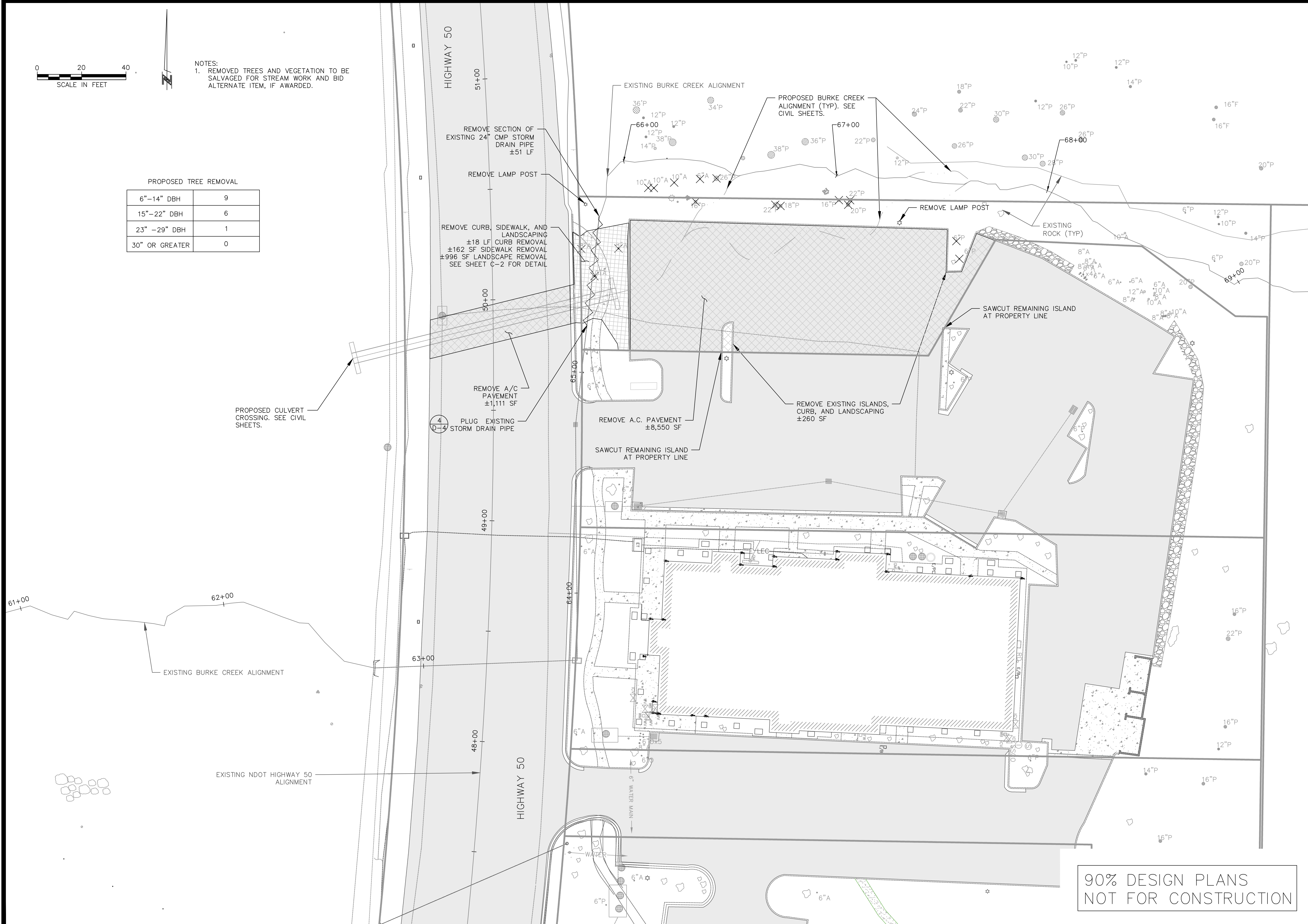
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NOTES:
1. REMOVED TREES AND VEGETATION TO BE SALVAGED FOR STREAM WORK AND BID ALTERNATE ITEM, IF AWARDED.

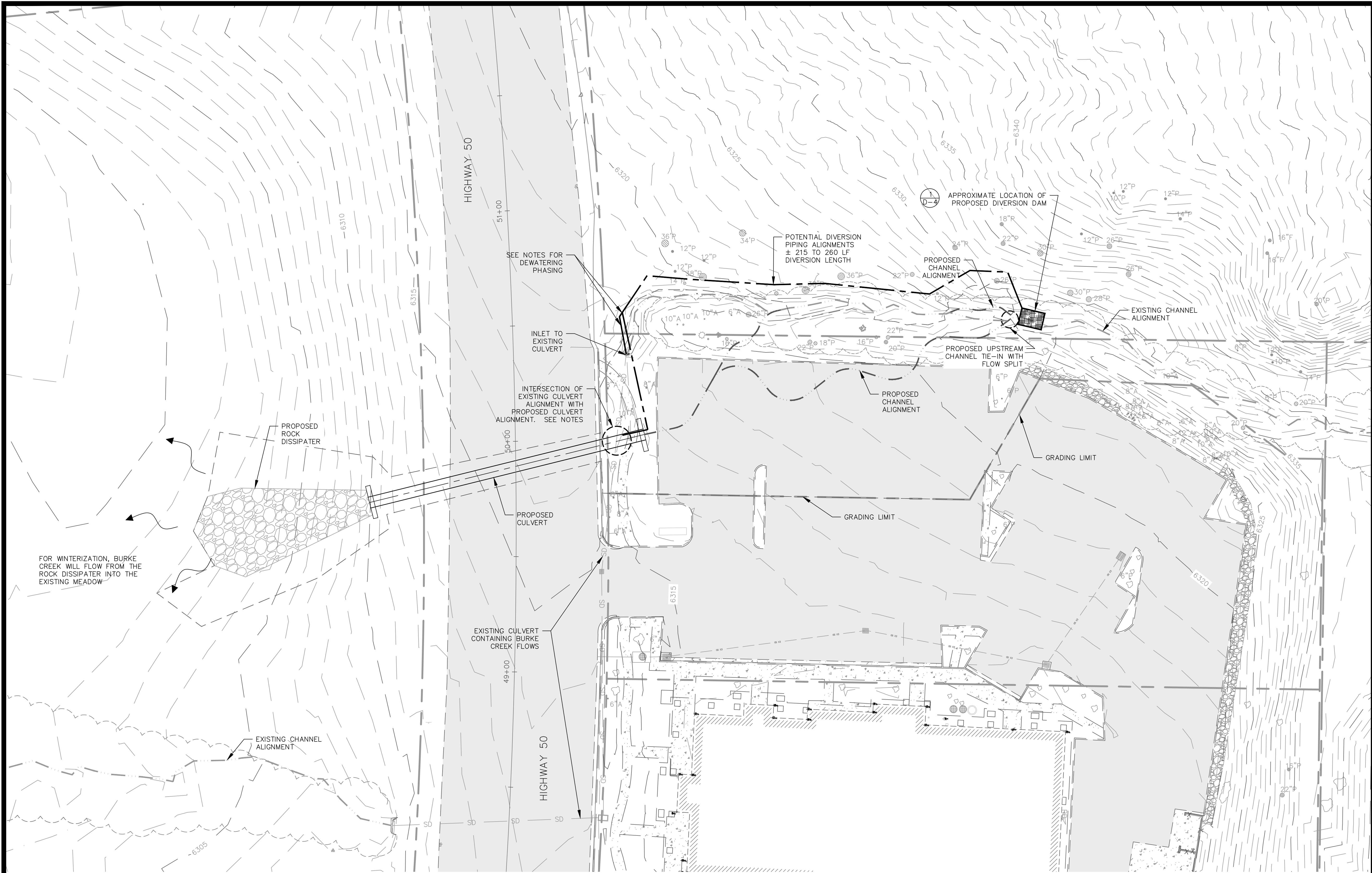
PROPOSED TREE REMOVAL

6"–14" DBH	9
15"–22" DBH	6
23"–29" DBH	1
30" OR GREATER	0



90% DESIGN PLANS
NOT FOR CONSTRUCTION

DEWATERING & DIVERSION PLAN
 BURKE CREEK HWY 50 CROSSING AND
 REALIGNMENT PROJECT
 PHASE 1



NOTES:
 1. DEWATERING AND DIVERSION MAY ALSO OCCUR AT UPSTREAM IMPROVEMENTS NOT SHOWN ON THIS SHEET. SEE PRELIMINARY DEWATERING AND DIVERSION PLAN, SPECIAL PROVISIONS, AND SWPPP FOR ALL DEWATERING AND DIVERSION REQUIREMENTS
 2. CONTRACTOR TO SUBMIT PLAN AND PHASING FOR DIVERSION BEFORE, DURING, AND AFTER PROPOSED CULVERT CONSTRUCTION BEFORE ANY DEWATERING OR DIVERSION OCCURS.

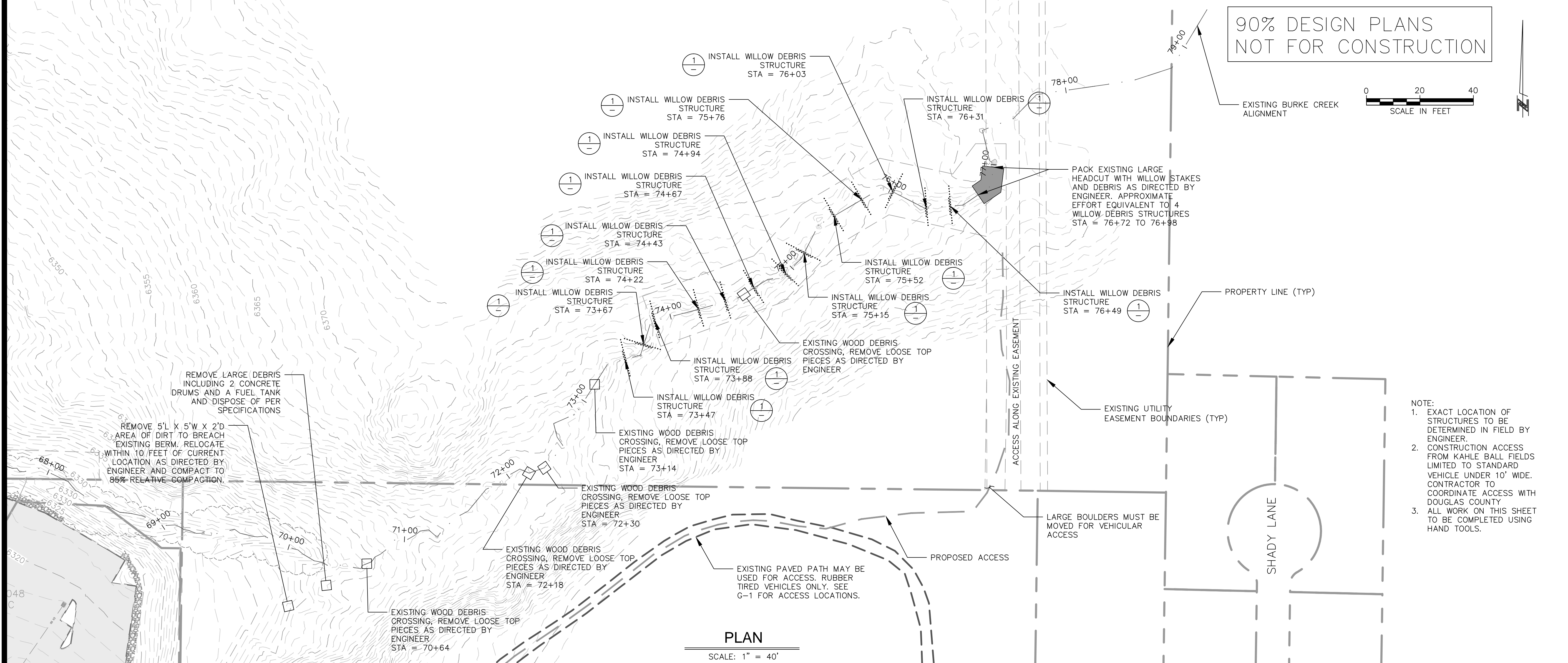
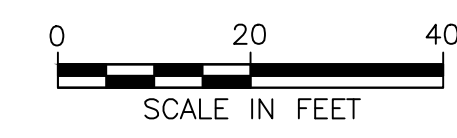


90% DESIGN PLANS
 NOT FOR CONSTRUCTION

DESIGNED/DRAWN	DS/MBG
CHECKED	MCK
DATE	03/11/2016
SCALE	1" = 20'
PROJECT	BCC

90% DESIGN PLANS
NOT FOR CONSTRUCTION

EXISTING BURKE CREEK ALIGNMENT



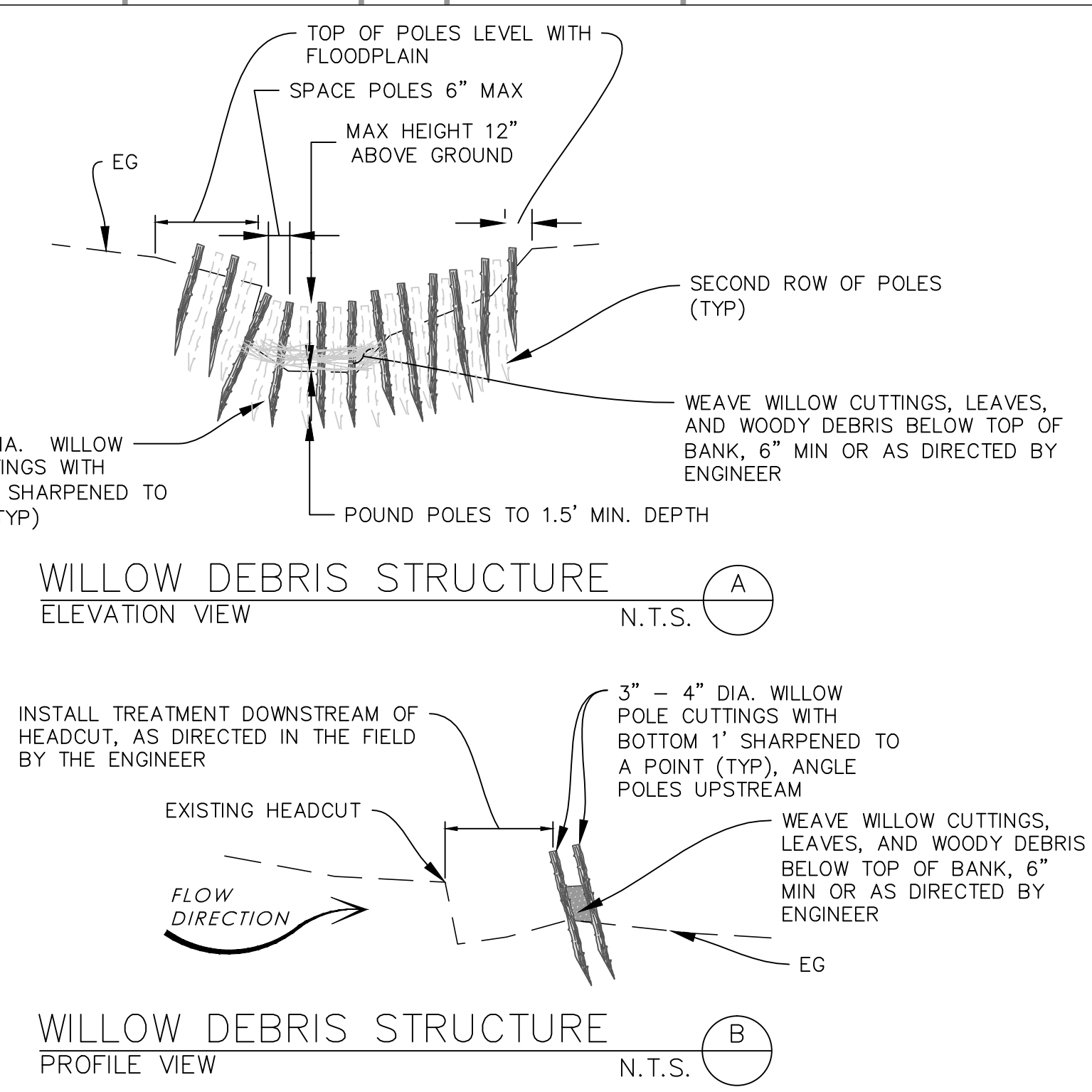
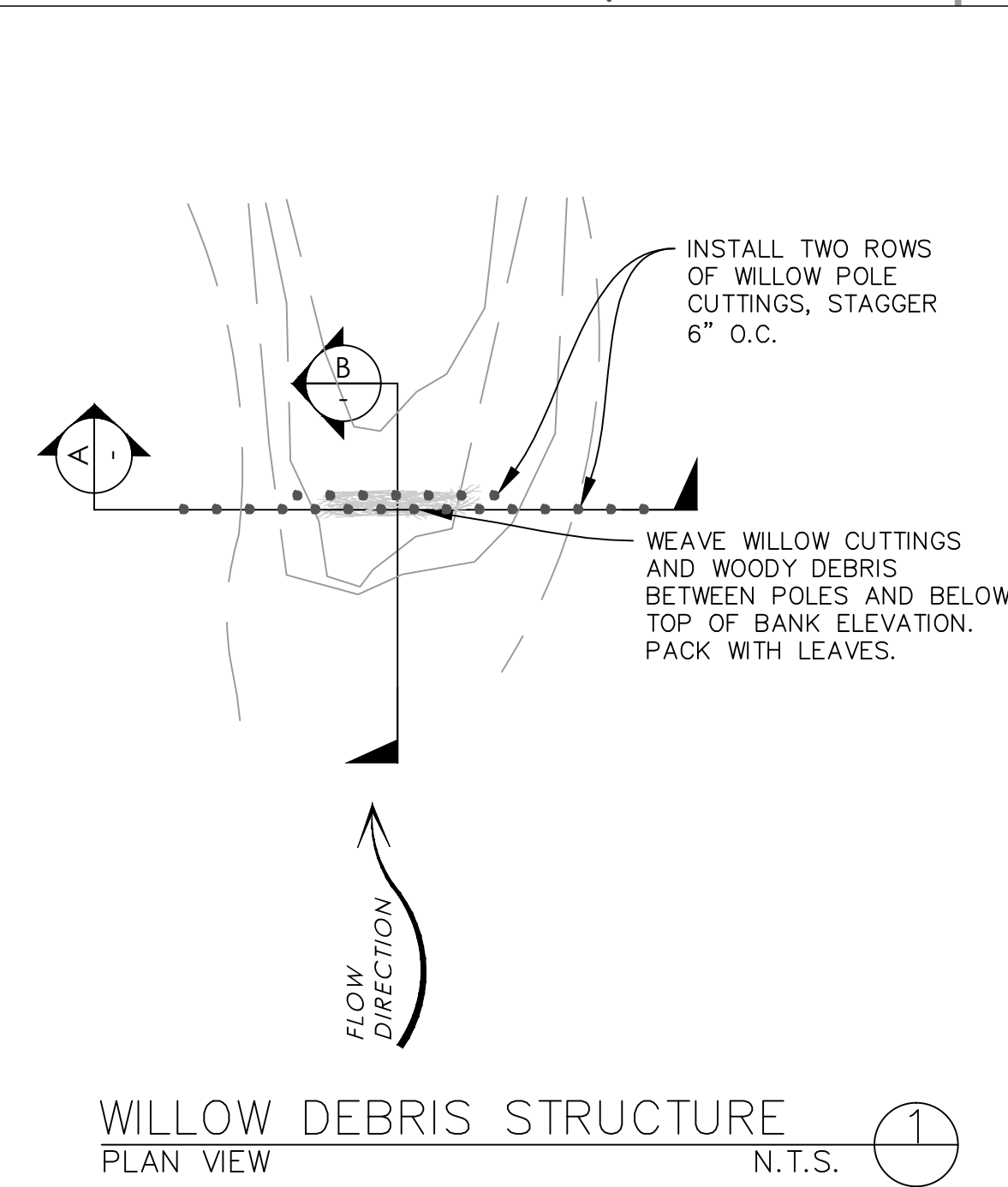
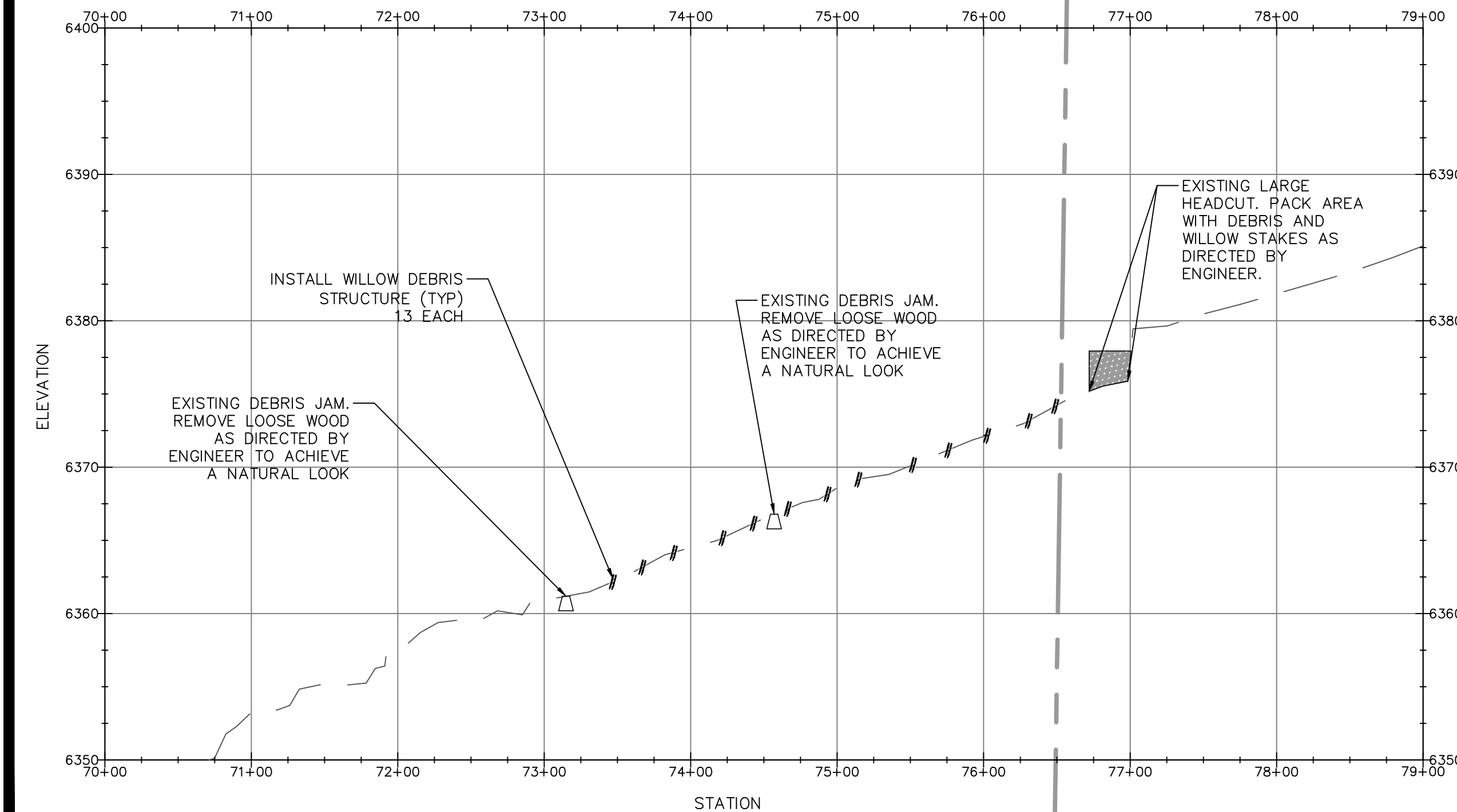
- NOTE:
1. EXACT LOCATION OF STRUCTURES TO BE DETERMINED IN FIELD BY ENGINEER.
 2. CONSTRUCTION ACCESS FROM KAHLE BALL FIELDS LIMITED TO STANDARD VEHICLE UNDER 10' WIDE. CONTRACTOR TO COORDINATE ACCESS WITH DOUGLAS COUNTY
 3. ALL WORK ON THIS SHEET TO BE COMPLETED USING HAND TOOLS.

PLAN

SCALE: 1" = 40'

PROFILE - BURKE CREEK

SCALE: HORIZ: 1" = 75', H:V = 1:10

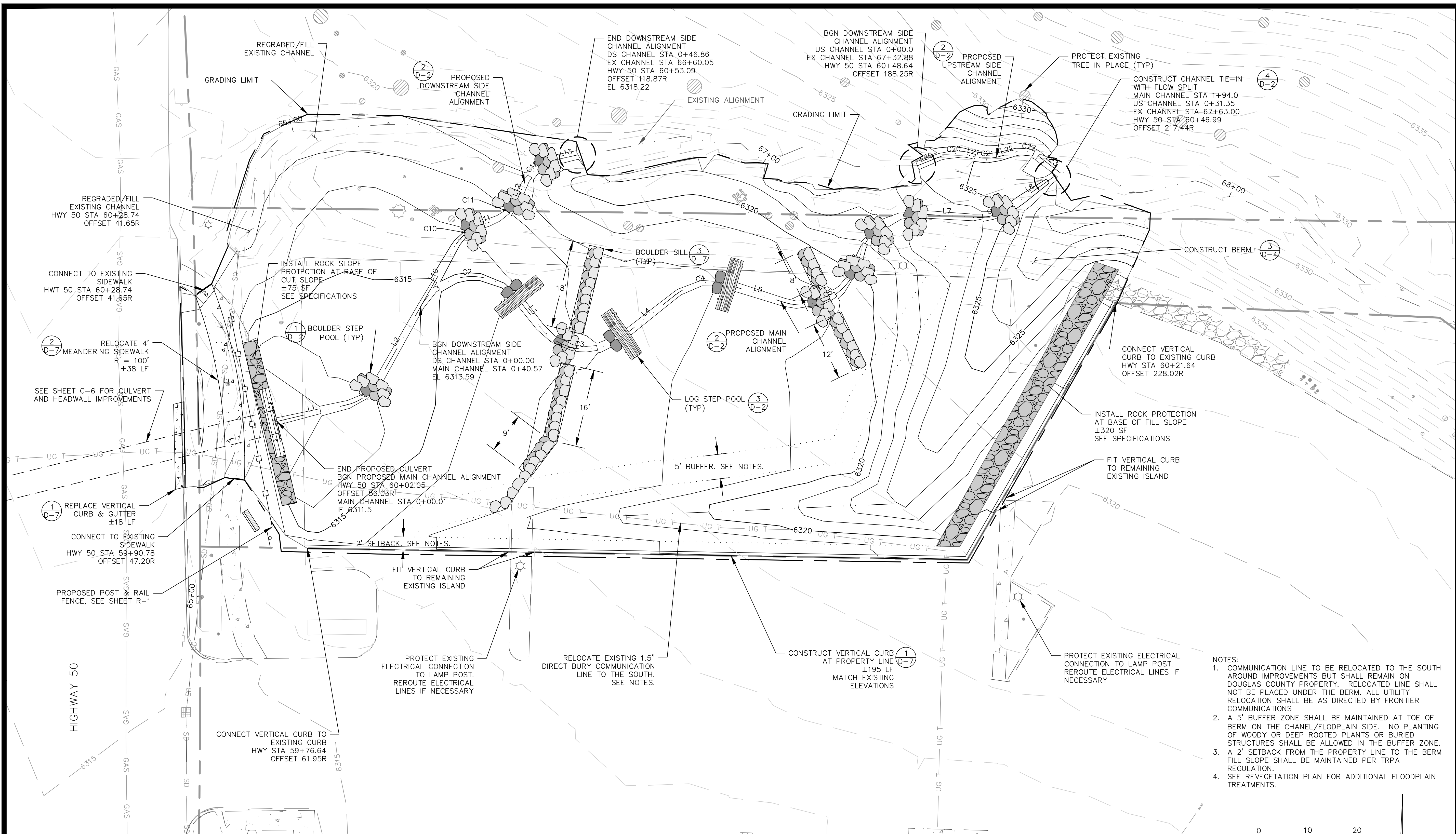


UPSTREAM IMPROVEMENTS
BURKE CREEK HWY 50 CROSSING AND
REALIGNMENT PROJECT
PHASE 1

DESIGNED/DRAWN	MCK
CHECKED	MBG
DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC

SHEET
C-1
8 OF 25

PROPOSED CREEK REALIGNMENT PLAN
BURKE CREEK HWY 50 CROSSING AND
REALIGNMENT PROJECT
PHASE 1



- NOTES:
1. COMMUNICATION LINE TO BE RELOCATED TO THE SOUTH AROUND IMPROVEMENTS BUT SHALL REMAIN ON DOUGLAS COUNTY PROPERTY. RELOCATED LINE SHALL NOT BE PLACED UNDER THE BERM. ALL UTILITY RELOCATION SHALL BE AS DIRECTED BY FRONTIER COMMUNICATIONS
 2. A 5' BUFFER ZONE SHALL BE MAINTAINED AT TOE OF BERM ON THE CHANEL/FLODPLAIN SIDE. NO PLANTING OF WOODY OR DEEP ROOTED PLANTS OR BURIED STRUCTURES SHALL BE ALLOWED IN THE BUFFER ZONE.
 3. A 2' SETBACK FROM THE PROPERTY LINE TO THE BERM FILL SLOPE SHALL BE MAINTAINED PER TRPA REGULATION.
 4. SEE REVEGETATION PLAN FOR ADDITIONAL FLOODPLAIN TREATMENTS.



EARTHWORK TABLE	
CUT	707 CY
FILL	292 CY
NET	415 CY CUT

90% DESIGN PLANS
NOT FOR CONSTRUCTION

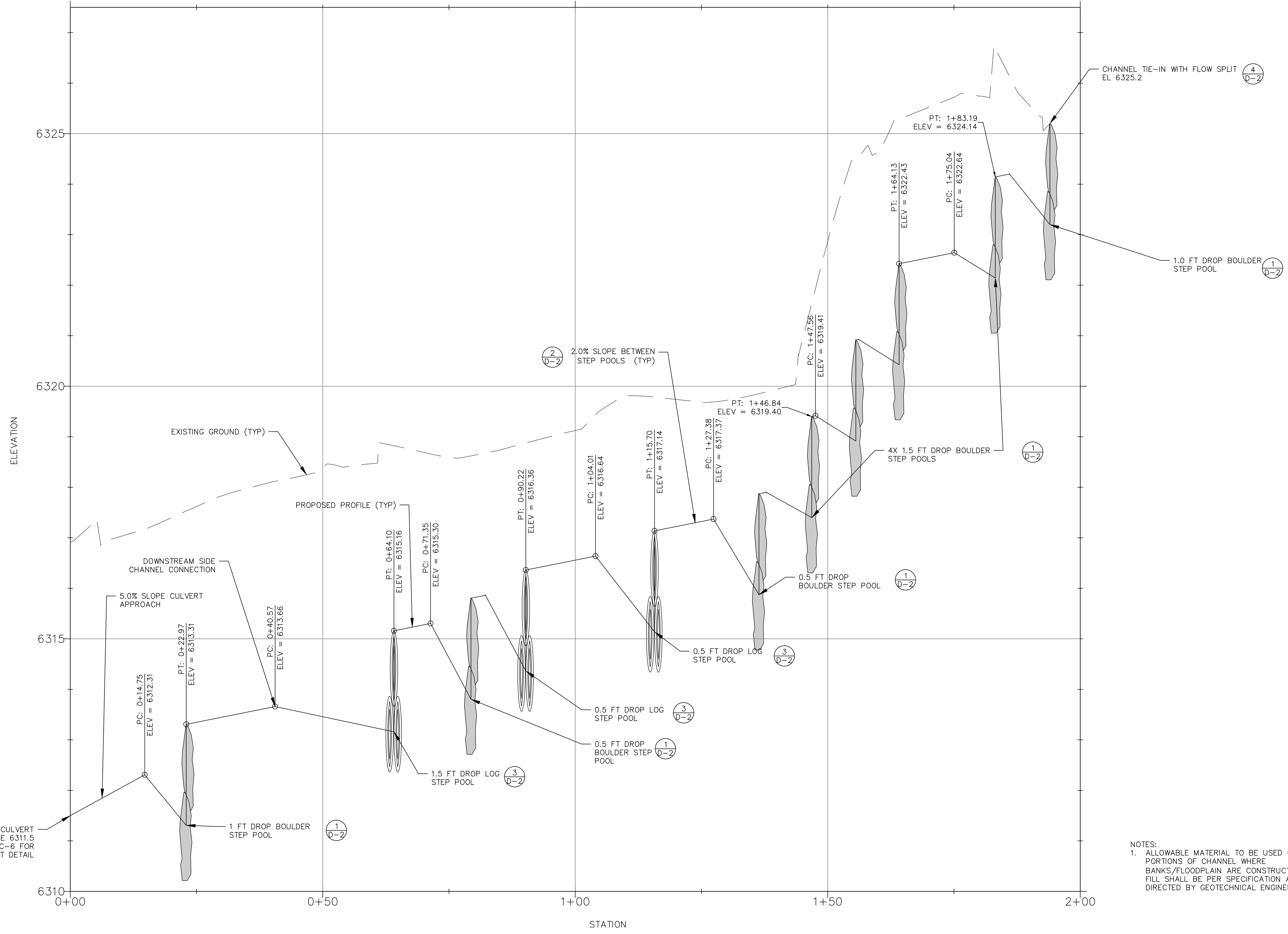
MAIN CHANNEL ALIGNMENT				
Number	Align Start Sta	Radius	Length	Line/Chord Direction
L1	0+00.00		14.75	N76° 35' 11.34"E
C1	0+14.75	10.00	8.22	N53° 02' 07.48"E
L2	0+22.97		17.60	N29° 29' 03.61"E
C2	0+40.57	12.00	23.53	N85° 39' 33.41"E
L3	0+64.10		7.25	S38° 09' 56.80"E
C3	0+71.35	12.00	18.86	S83° 11' 55.35"E
L4	0+90.22		13.80	N51° 46' 06.09"E
C4	1+04.01	12.00	11.69	N79° 40' 22.28"E

MAIN CHANNEL ALIGNMENT				
Number	Align Start Sta	Radius	Length	Line/Chord Direction
L5	1+15.70		11.67	S72° 25' 21.52"E
C5	1+27.38	12.00	19.46	N61° 06' 38.14"E
L6	1+46.84		0.72	N14° 38' 37.80"E
C6	1+47.56	12.00	16.57	N54° 11' 42.75"E
L7	1+64.13		10.91	S86° 15' 12.30"E
C7	1+75.04	12.00	8.14	N74° 18' 36.22"E
L8	1+83.19		10.82	N54° 52' 24.74"E

DOWNSTREAM SIDE CHANNEL ALIGNMENT				
Number	Align Start Sta	Radius	Length	Line/Chord Direction
L10	0+00.00		13.95	N29° 32' 48.14"E
C10	0+13.95	10.00	7.60	N51° 18' 26.27"E
L11	0+21.54		1.29	N73° 04' 04.39"E
C11	0+22.83	10.00	9.06	N47° 06' 37.89"E
L12	0+31.89		0.79	N21° 09' 11.38"E
C12	0+32.68	10.00	9.81	N49° 14' 43.83"E
L13	0+42.49		4.38	N77° 20' 16.29"E

UPSTREAM SIDE CHANNEL ALIGNMENT				
Number	Align Start Sta	Radius	Length	Line/Chord Direction
L20	0+00.00		4.69	N68° 11' 40.69"E
C20	0+04.69	10.00	6.41	N86° 34' 04.65"E
L21	0+11.11		0.95	S75° 03' 31.39"E
C21	0+12.06	10.00	5.25	N89° 54' 47.21"E
L22	0+17.31		3.73	N74° 53' 05.82"E
C22	0+21.04	5.00	4.57	S78° 54' 13.31"E
L23	0+25.61		5.74	S52° 41' 32.45"E

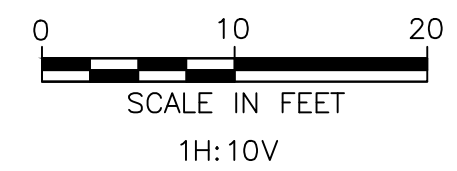
DESIGNED/DRAWN	DS/MBG
CHECKED	MCK
DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC
SHEET	C-2



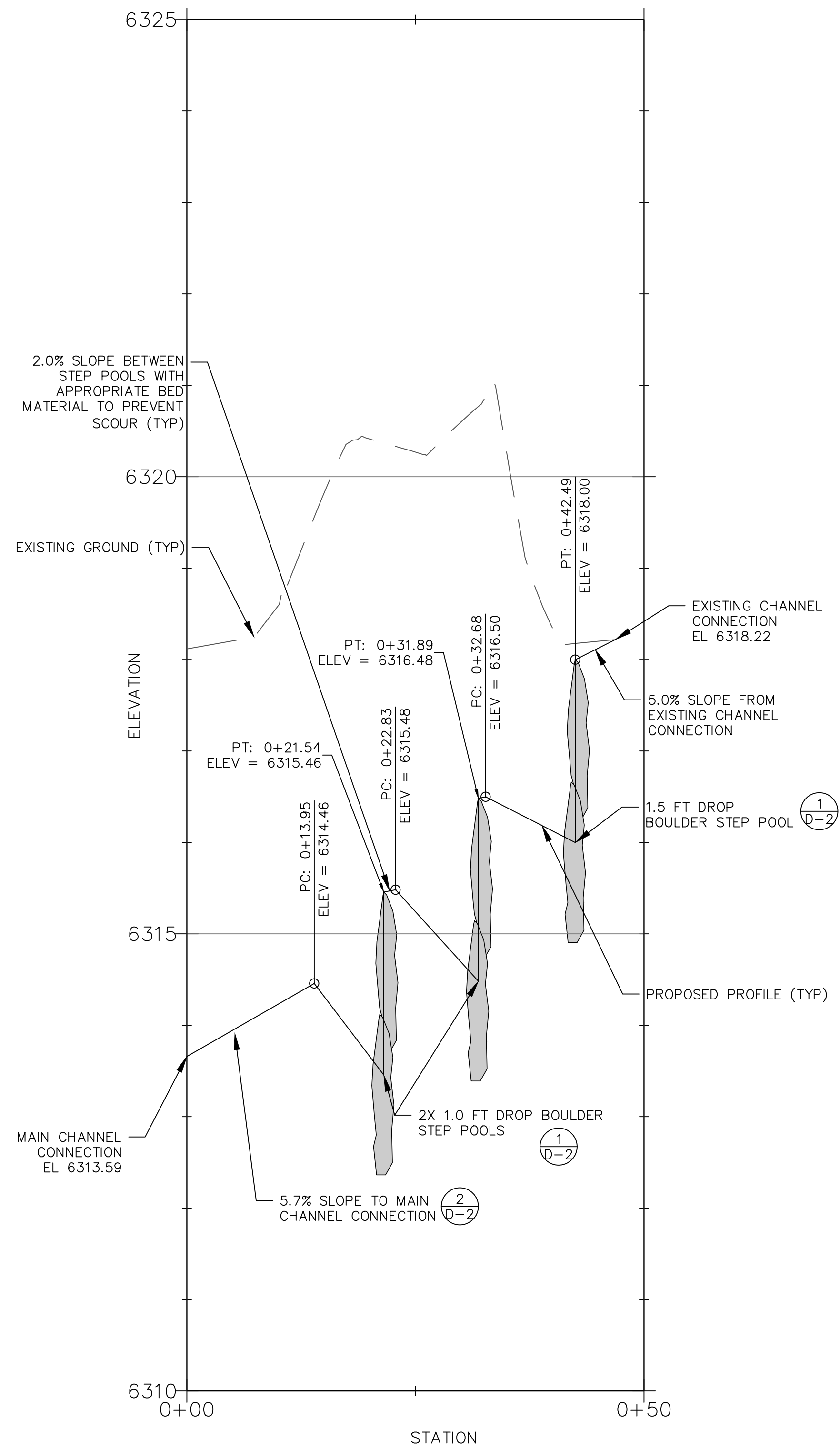
NOTES:
1. ALLOWABLE MATERIAL TO BE USED ON PORTIONS OF CHANNEL WHERE BANKS/FLOODPLAIN ARE CONSTRUCTED WITH FILL SHALL BE PER SPECIFICATION AND AS DIRECTED BY GEOTECHNICAL ENGINEER

90% DESIGN PLANS
NOT FOR CONSTRUCTION

PROPOSED BURKE CREEK PROFILE
MAIN CHANNEL
SCALE: HORIZ: 1" = 10'; H: V = 1:10

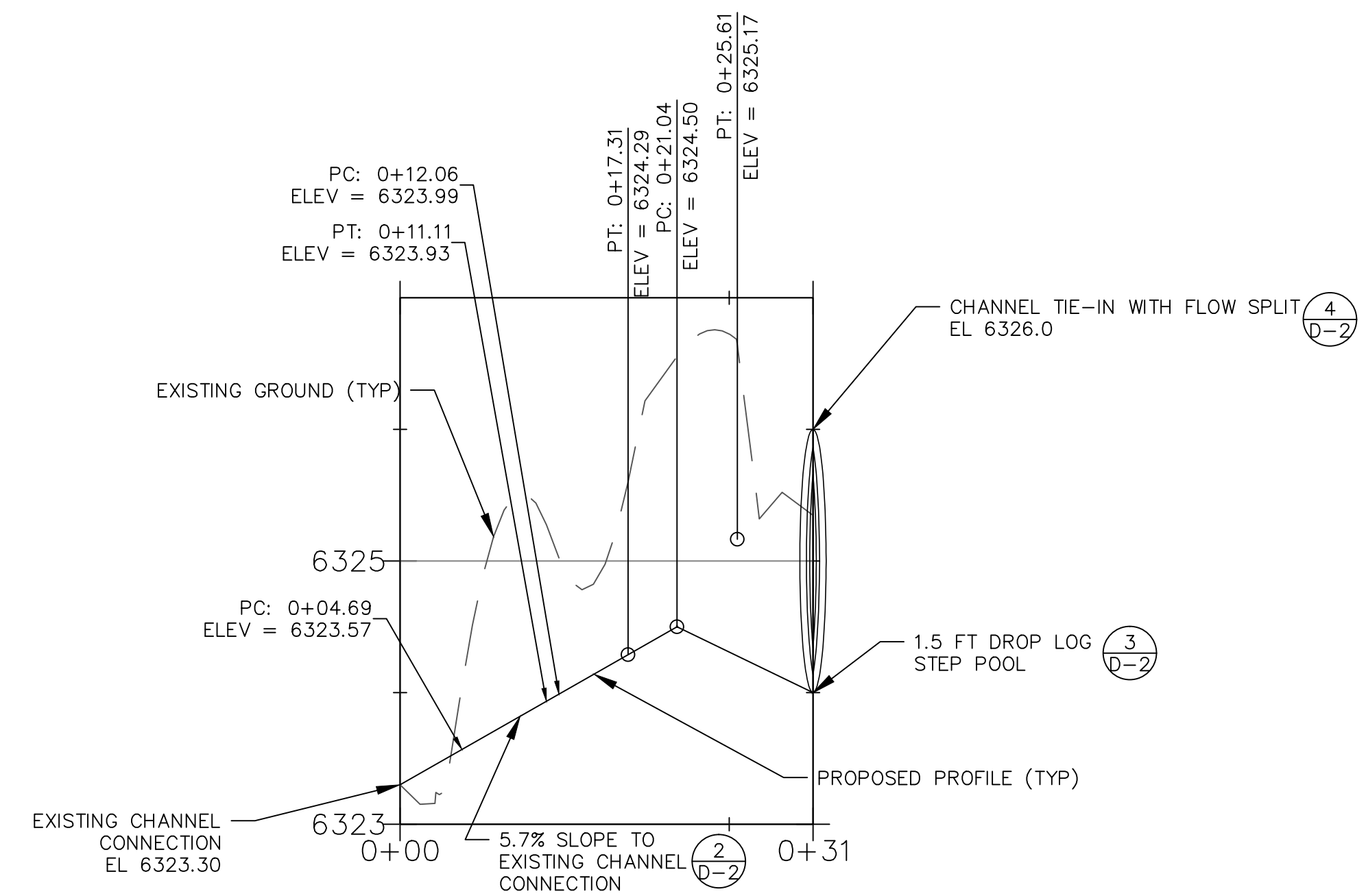


DESIGNED/DRAWN	DS/MBG
CHECKED	MCK
DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC



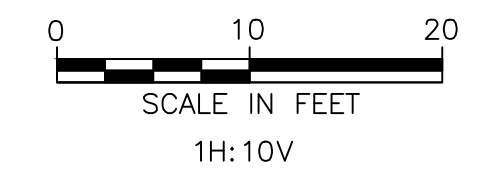
**PROPOSED BURKE CREEK PROFILE
DOWNSTREAM SIDE CHANNEL**

SCALE: HORIZ:1" = 10'; H:V = 1:10



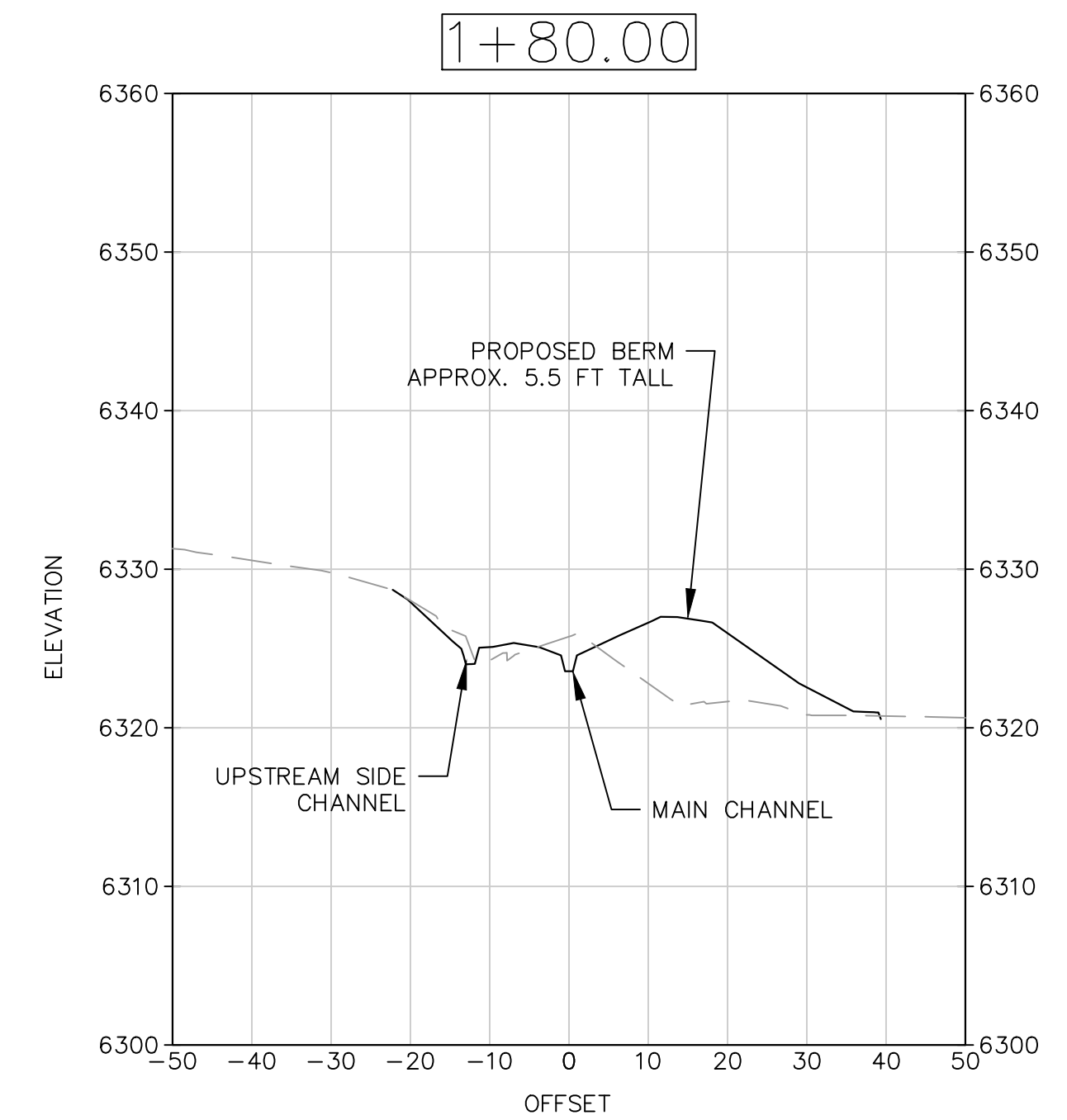
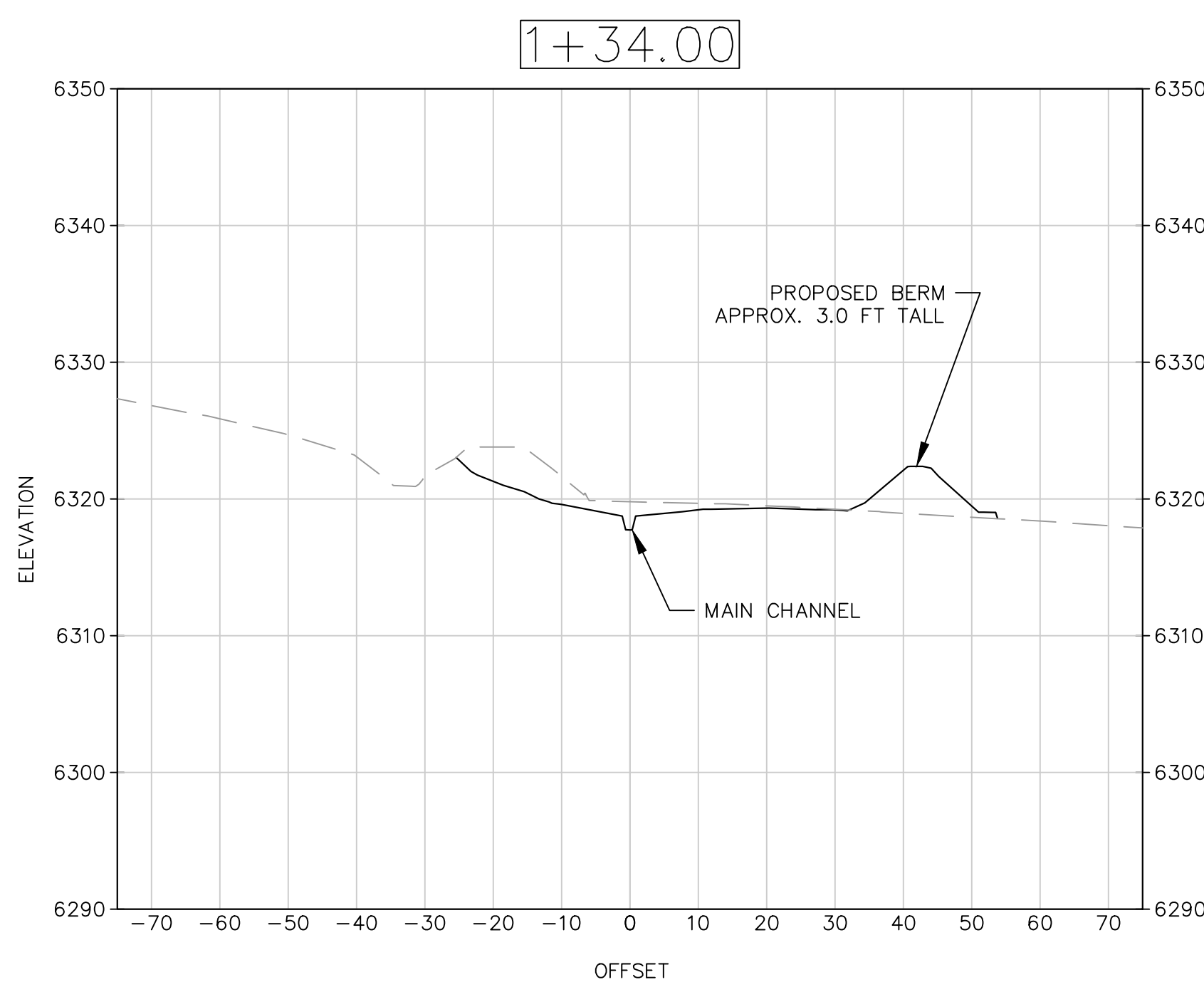
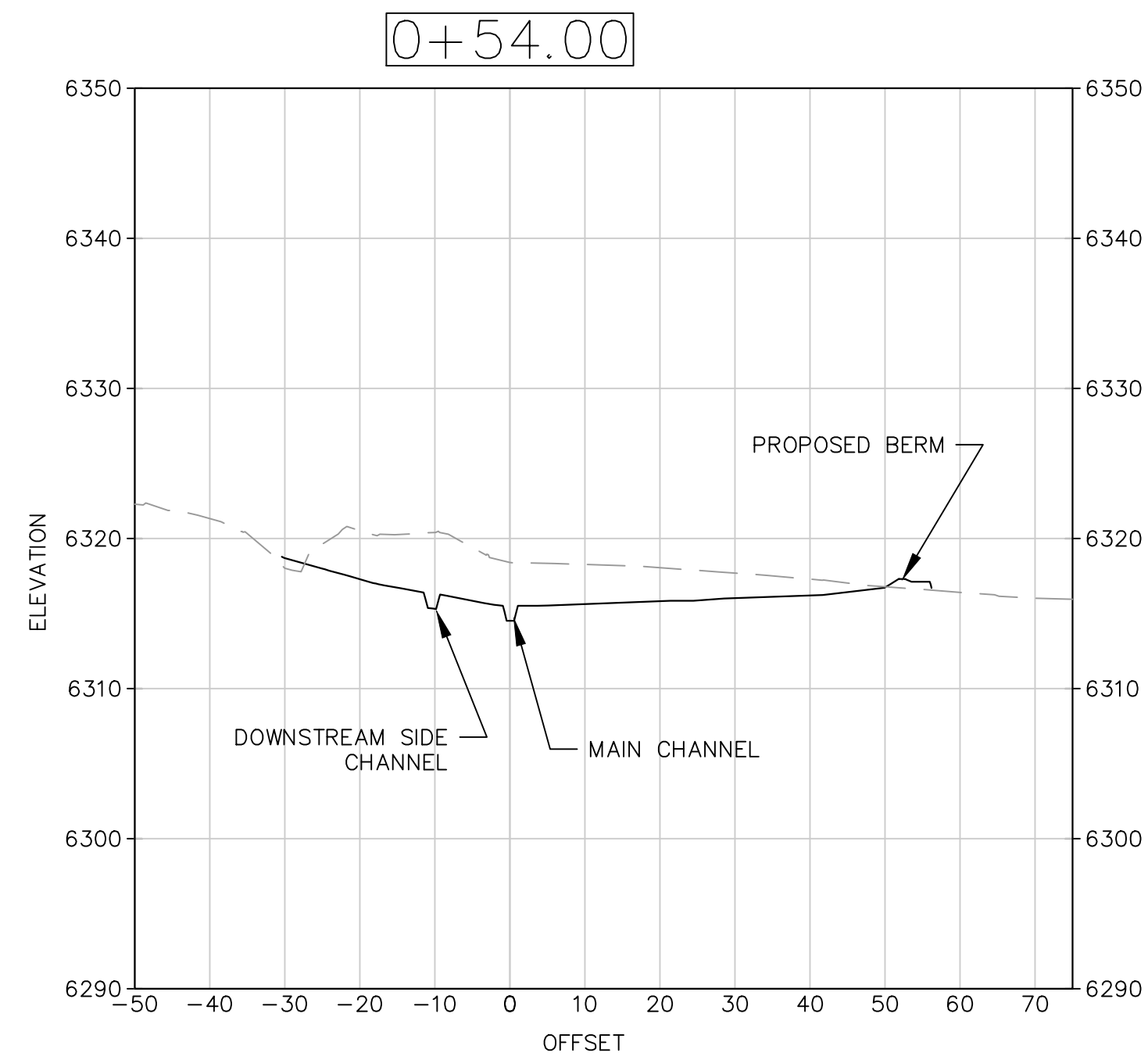
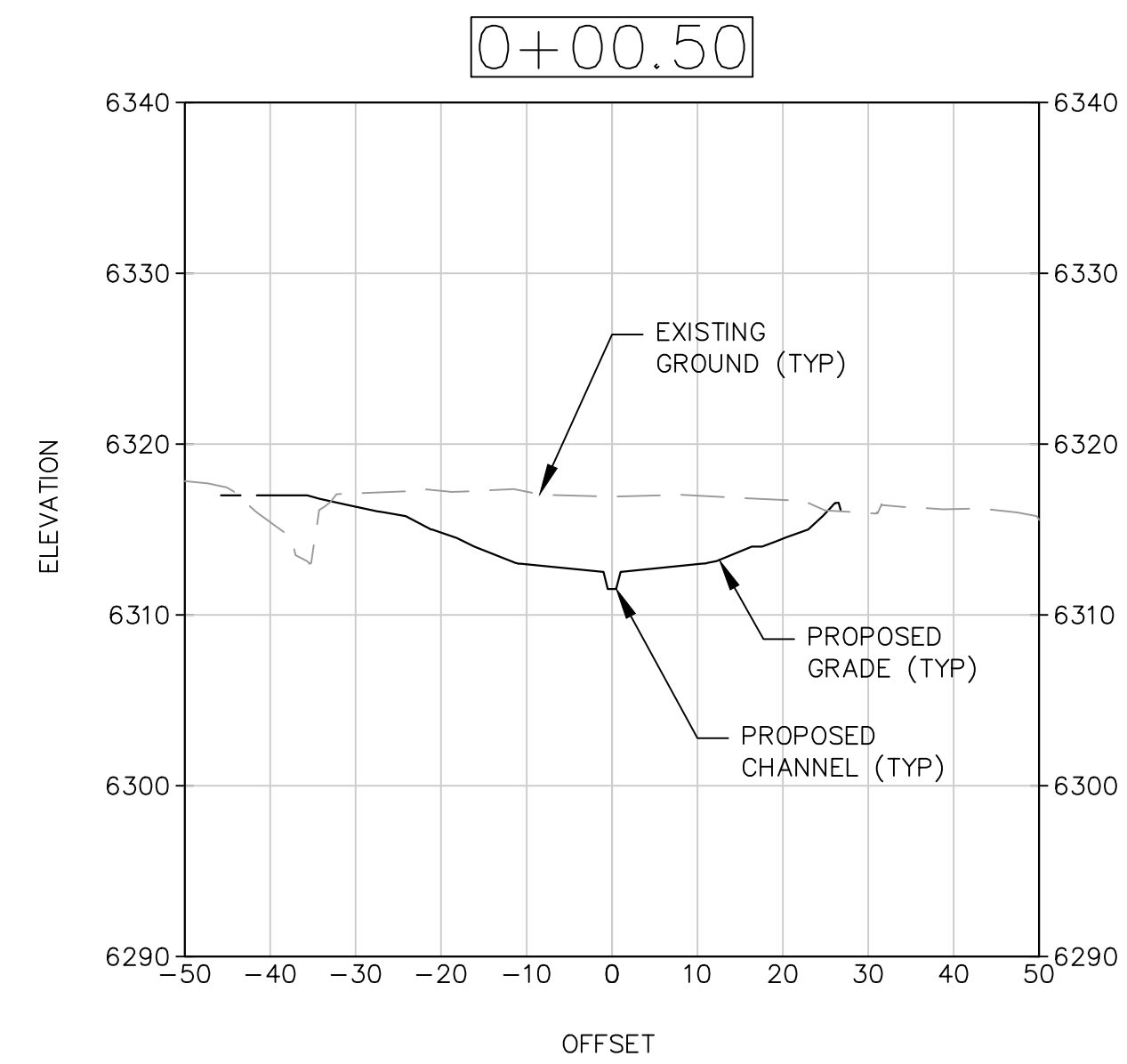
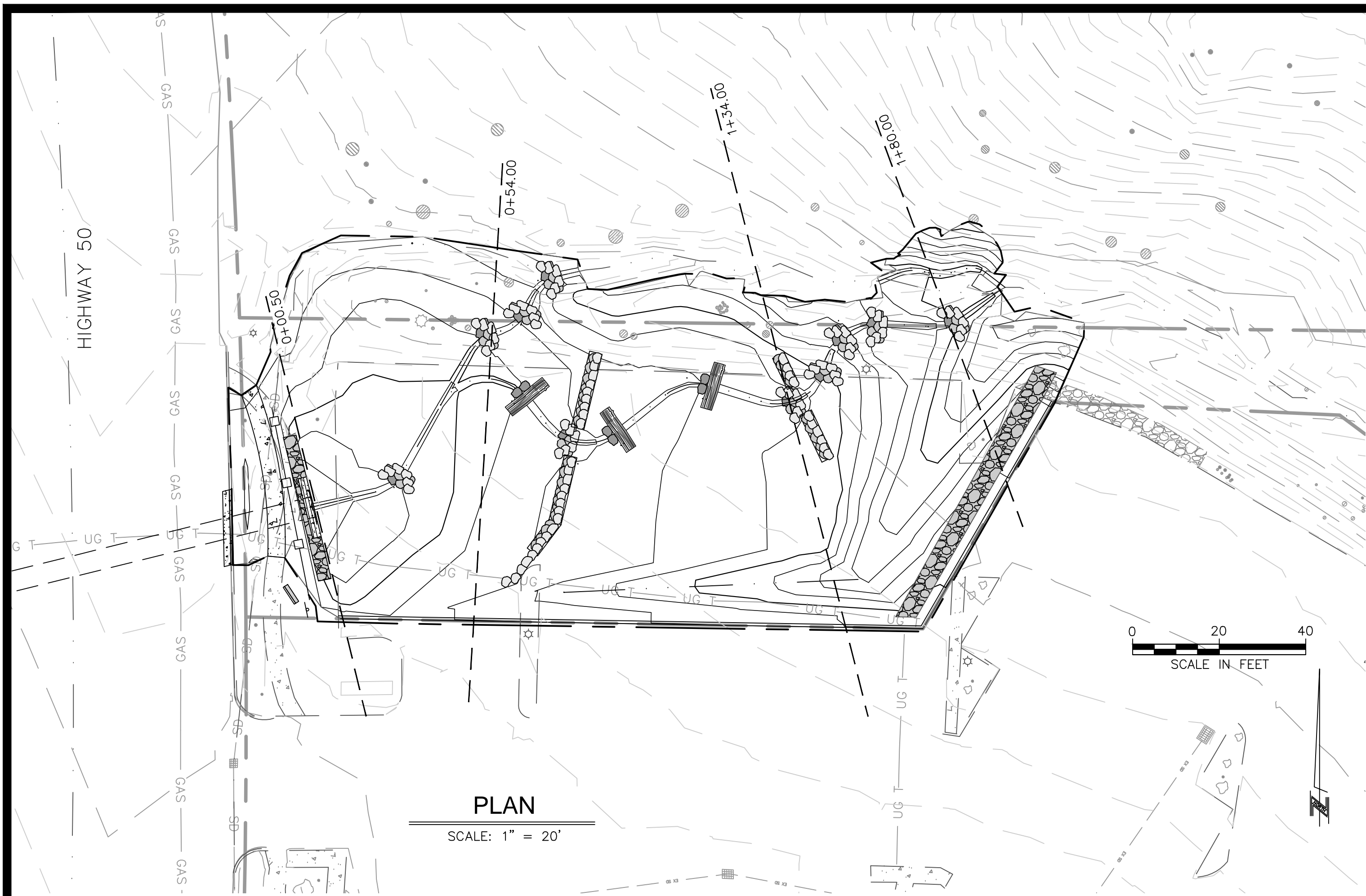
**PROPOSED BURKE CREEK PROFILE
UPSTREAM SIDE CHANNEL**

SCALE: HORIZ:1" = 10'; H:V = 1:10



90% DESIGN PLANS
NOT FOR CONSTRUCTION

DESIGNED/DRAWN
DS/MBG
CHECKED
MCK
DATE
03/11/2016
SCALE
AS SHOWN
PROJECT
BCC



**FLOODPLAIN CROSS SECTIONS
UPSTREAM OF HIGHWAY 50**

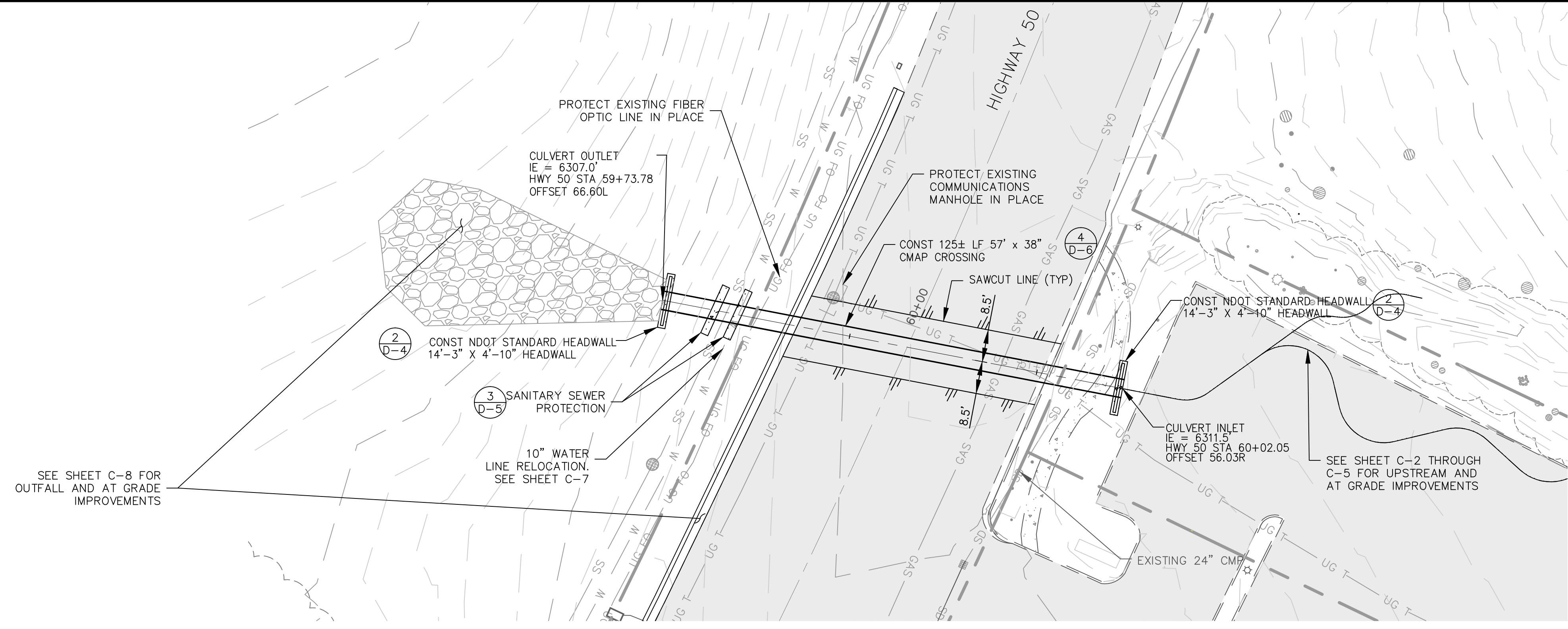
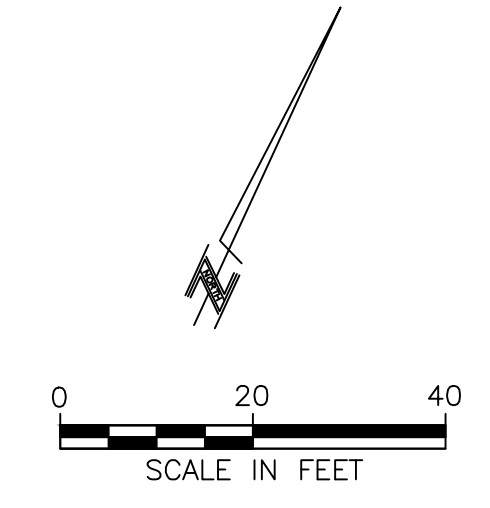
SCALE: HORIZ: 1" = 20'; H: V = 1: 2

90% DESIGN PLANS
NOT FOR CONSTRUCTION

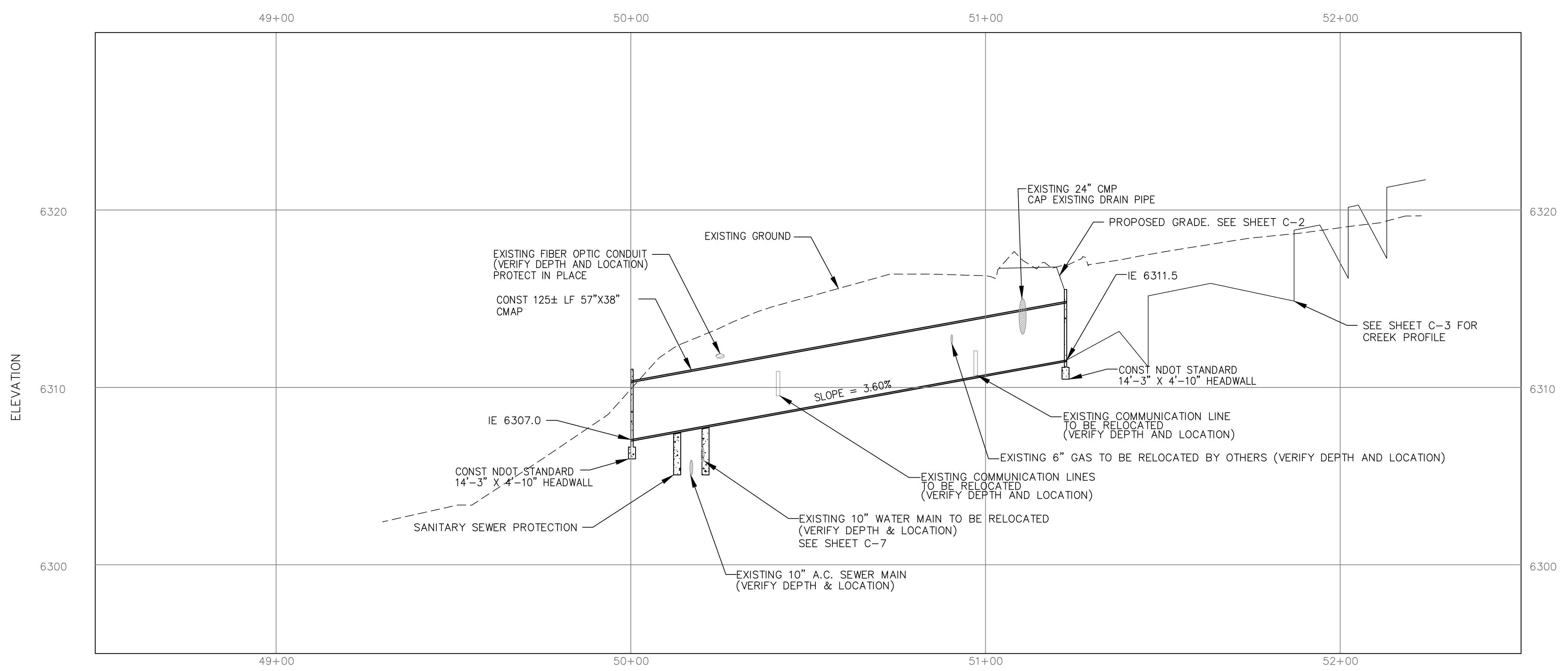
**PROPOSED FLOODPLAIN CROSS SECTIONS
BURKE CREEK HWY 50 CROSSING AND
REALIGNMENT PROJECT
PHASE 1**

DESIGNED/DRAWN
MBG/MBG
CHECKED
MCK
DATE
03/11/2016
SCALE
AS SHOWN
PROJECT
BCC

SHEET
C-5
12 OF 25

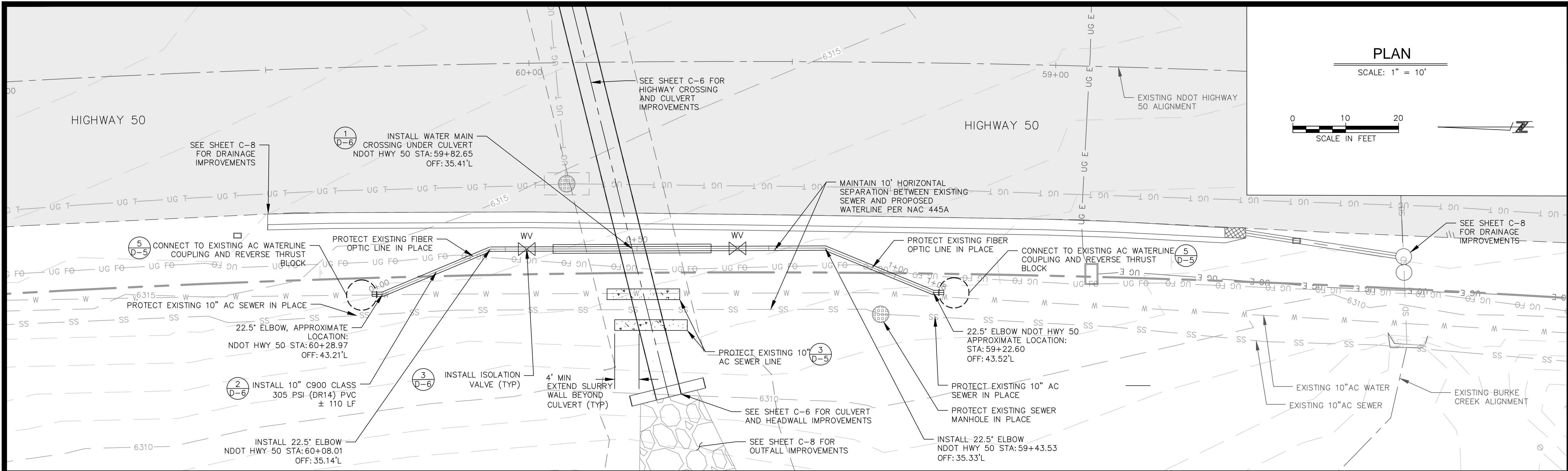


- NOTES:
- SEE C-2, C-7, DEMOLITION, AND LANDSCAPING SHEETS FOR ADDITIONAL IMPROVEMENTS ABOVE CMAP AT STREET LEVEL.
 - ALL UTILITY HORIZONTAL AND VERTICAL LOCATIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY CONFLICTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.



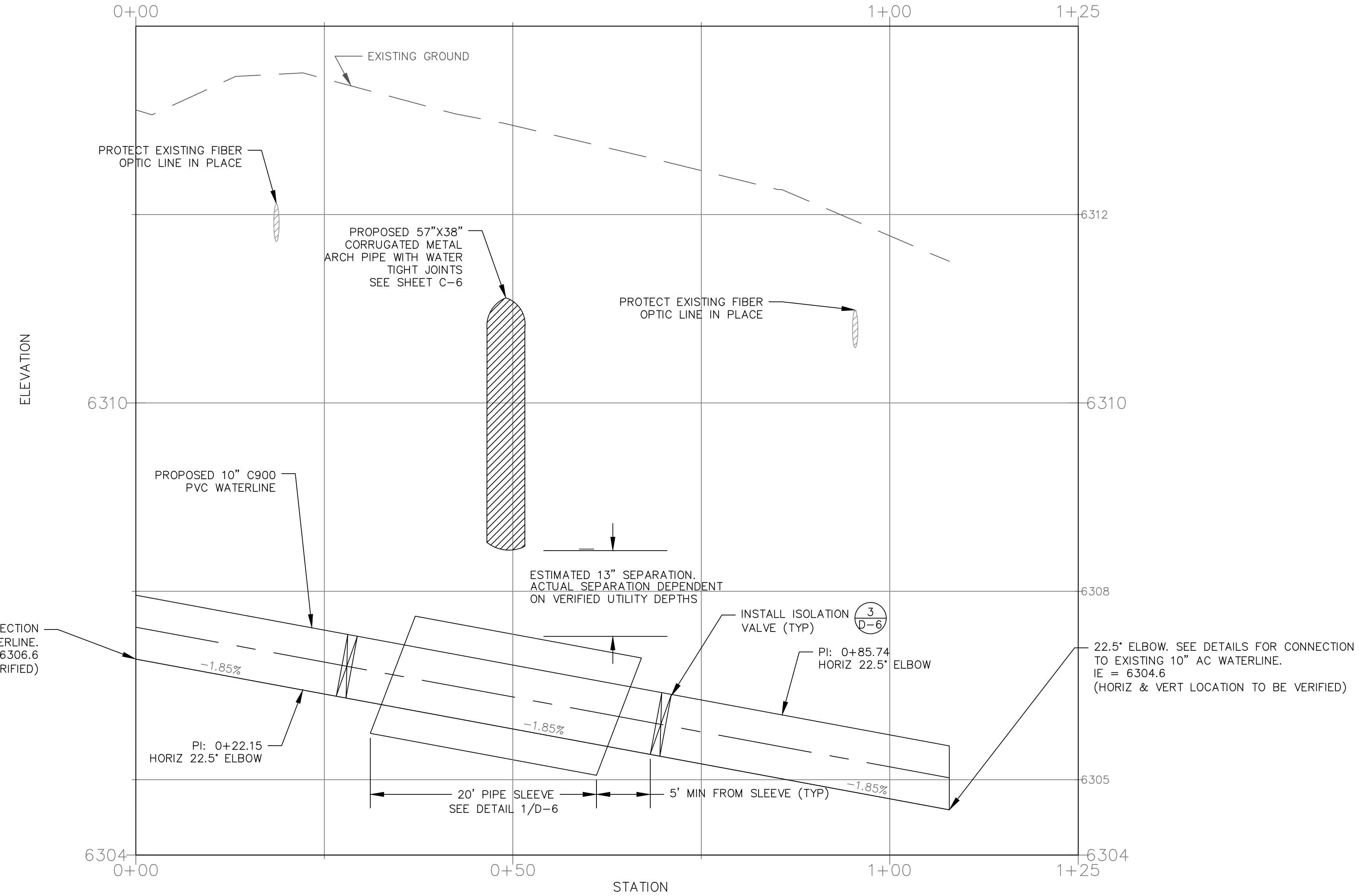
CULVERT CROSSING PLAN AND PROFILE
BURKE CREEK HWY 50 CROSSING AND
REALIGNMENT PROJECT
PHASE 1

DESIGNED/DRAWN	AL
CHECKED	MG/MK
DATE	03/11/2016
SCALE	1"=20' H, H:V=1:5
PROJECT	BCC



PROPOSED 10" WATER MAIN RELOCATION PROFILE

SCALE: HORIZ 1" = 10'; H:V = 1:10



- NOTES:
1. ALL UTILITY HORIZONTAL AND VERTICAL LOCATIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY CONFLICTS OR DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
 2. EXACT LOCATION OF WATERLINE IS DEPENDENT ON EXISTING UTILITY LOCATION VERIFICATION. FIELD FIT OF WATERLINE MAY BE NECESSARY. INSTALLATION SHALL BE WITHIN ALL NAC AND KGID STANDARDS.
 3. IF FIELD CONDITIONS REVEAL A HIGH POINT WILL BE CREATED WITHIN THE RELOCATED WATERLINE, AN AIR VACUUM VALVE WILL NEED TO BE INSTALLED. THIS KIND OF DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
 4. CONTRACTOR TO COORDINATE WITH KGID WATER UTILITY FOR CONNECTION TO 10" MAIN TO USE FOR IRRIGATION PURPOSES.
 5. APPROVAL FOR WATERLINE RELOCATION AND SUBMITTALS MUST BE OBTAINED FROM KGID BEFORE INSTALLATION.
 6. SEE SHEET C-9 FOR LOCATION OF ISOLATION VALVE INSTALLATION ON EXISTING 10" AC WATERLINE. INSTALLATION TO BE PERFORMED BEFORE WATERLINE RELOCATION WORK AND COORDINATED WITH KGID.
 7. SEE DETAILS FOR ADDITIONAL NOTES ON COMMUNICATIONS WITH DCSID.

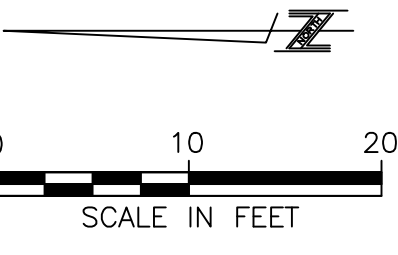
DRAFT 90% DESIGN PLANS
NOT FOR CONSTRUCTION

UTILITY RELOCATION
BURKE CREEK HWY 50 CROSSING AND
REALIGNMENT PROJECT
PHASE 1

DESIGNED/DRAWN	MBG/MBG
CHECKED	MCK/ATS
DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC

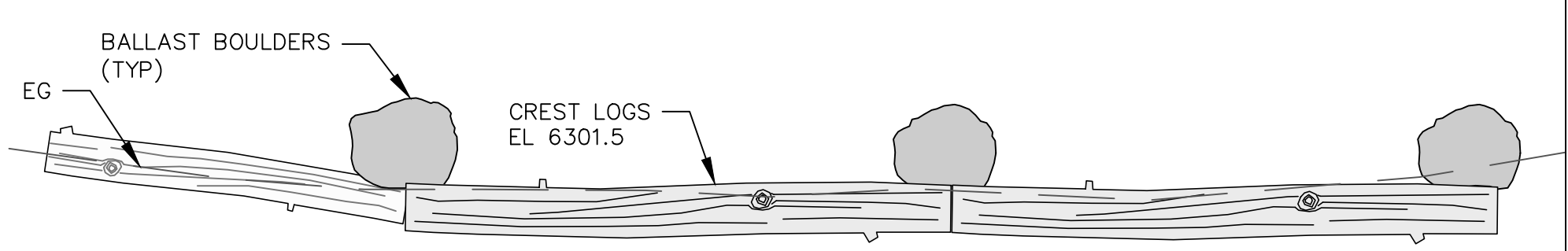
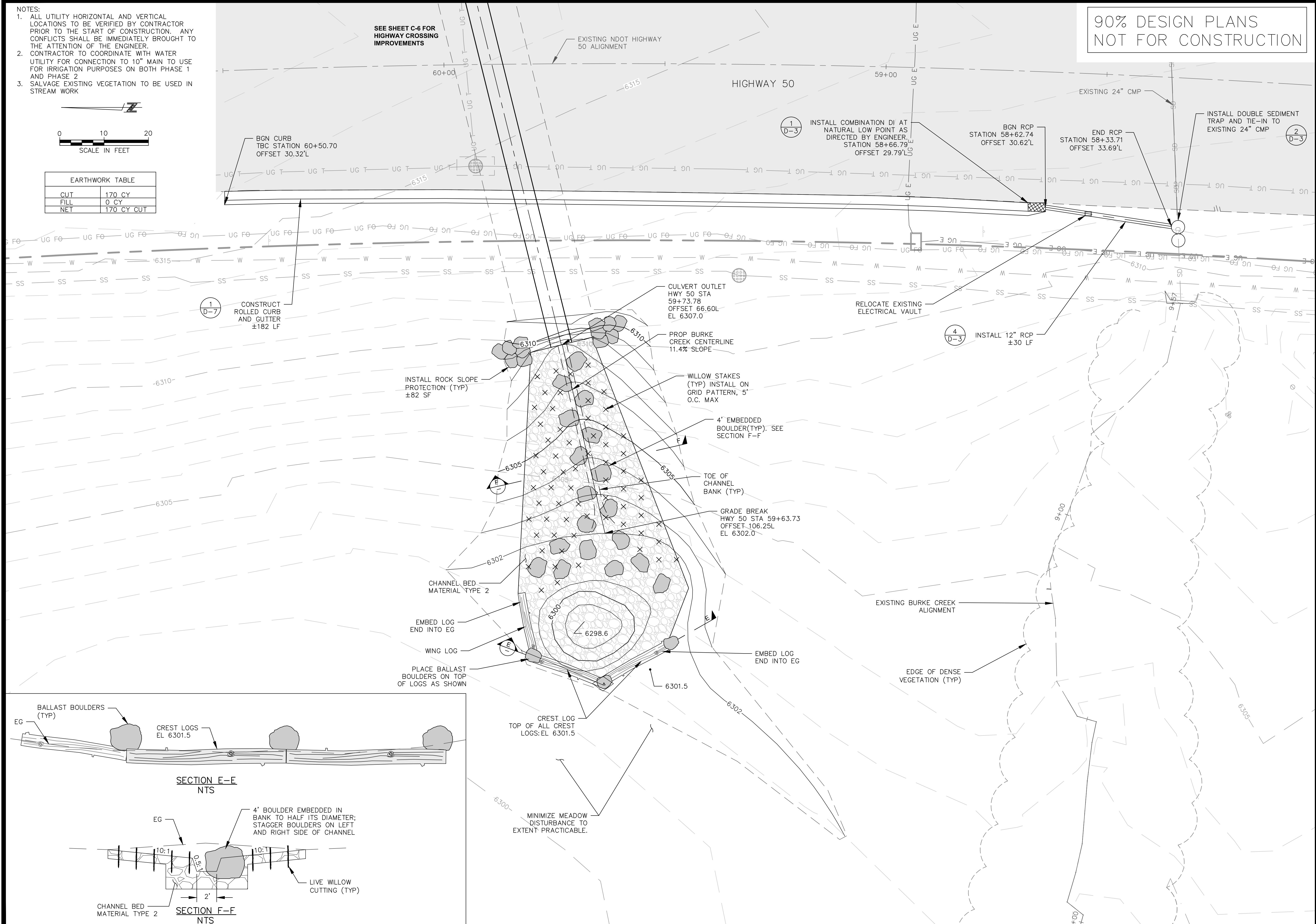
SHEET
C-7
14 of 25

- NOTES:
1. ALL UTILITY HORIZONTAL AND VERTICAL LOCATIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY CONFLICTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
 2. CONTRACTOR TO COORDINATE WITH WATER UTILITY FOR CONNECTION TO 10" MAIN TO USE FOR IRRIGATION PURPOSES ON BOTH PHASE 1 AND PHASE 2.
 3. SALVAGE EXISTING VEGETATION TO BE USED IN STREAM WORK.

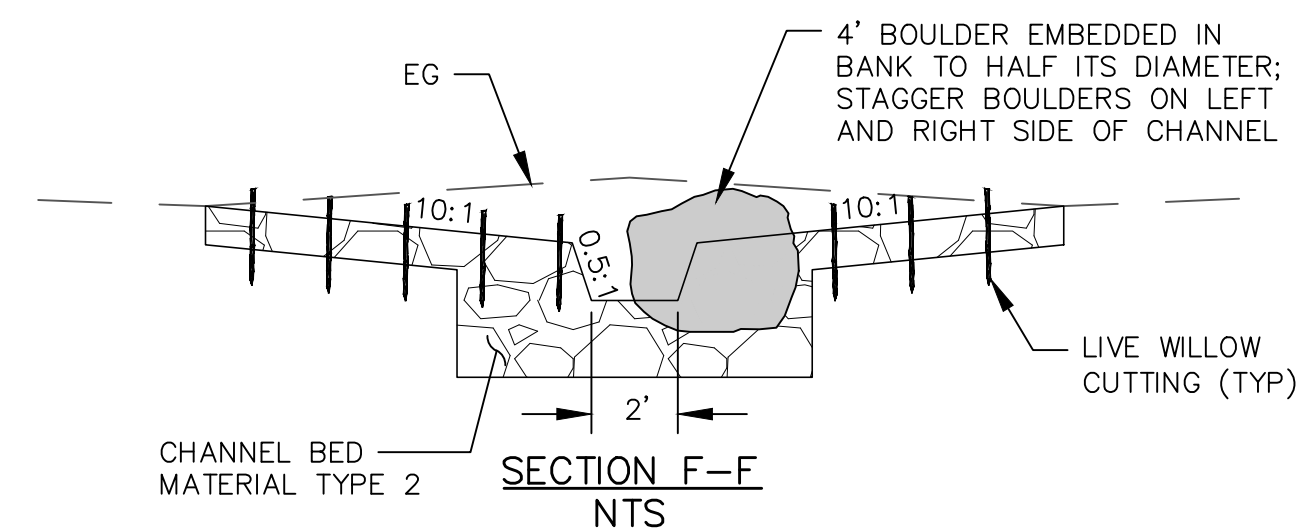


EARTHWORK TABLE	
CUT	170 CY
FILL	0 CY
NET	170 CY CUT

90% DESIGN PLANS
NOT FOR CONSTRUCTION



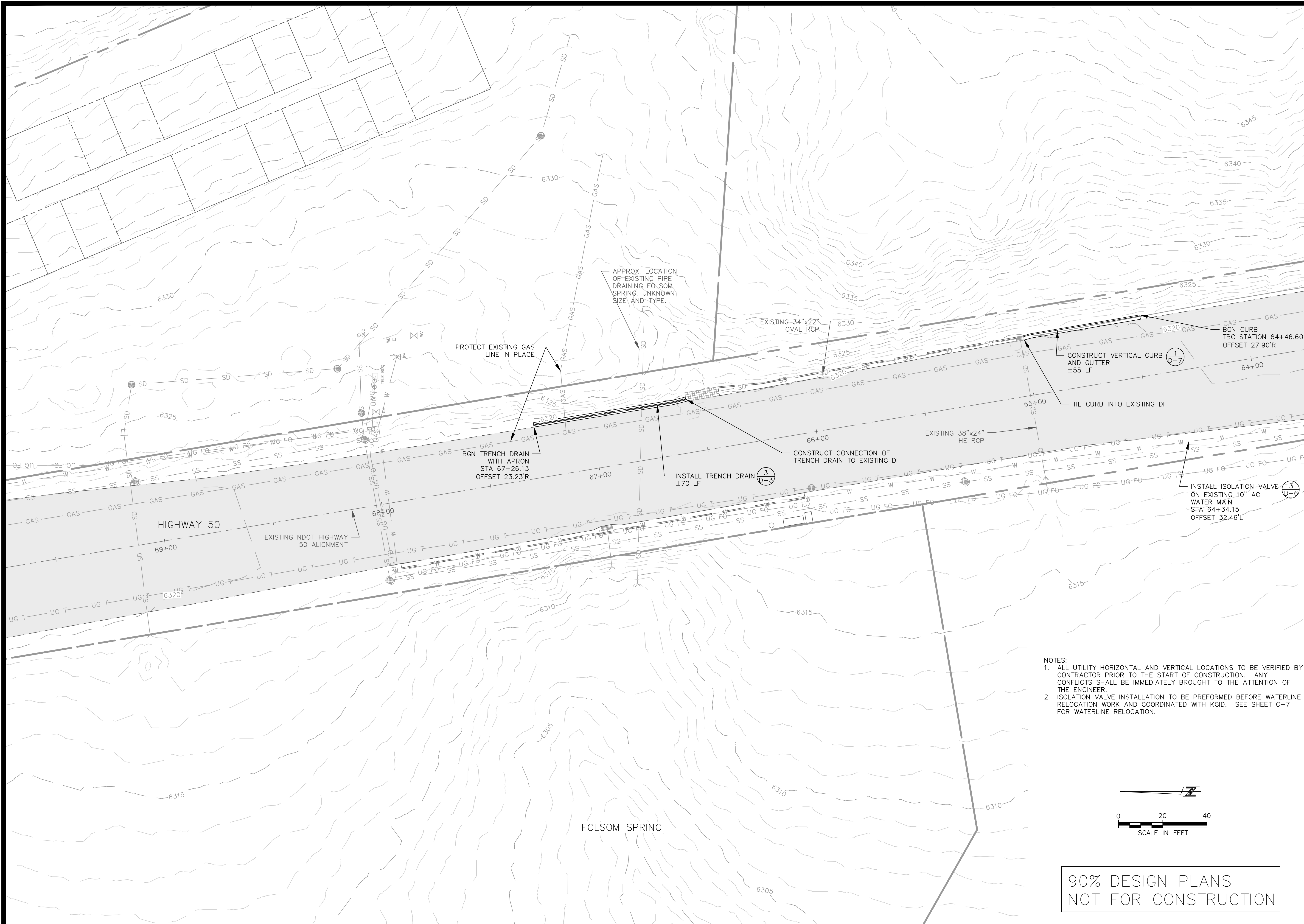
SECTION E-E
NTS



SECTION F-F
NTS

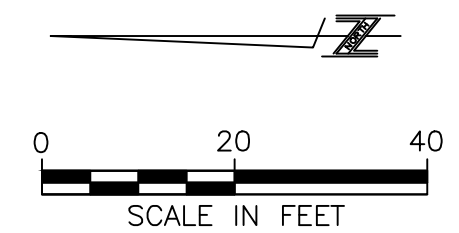
CULVERT OUTFALL
BURKE CREEK HWY 50 CROSSING AND
REALIGNMENT PROJECT
PHASE 1

DESIGNED/DRAWN	MBG/MBG
CHECKED	MCK
DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC
SHEET	C-8
	15 of 25



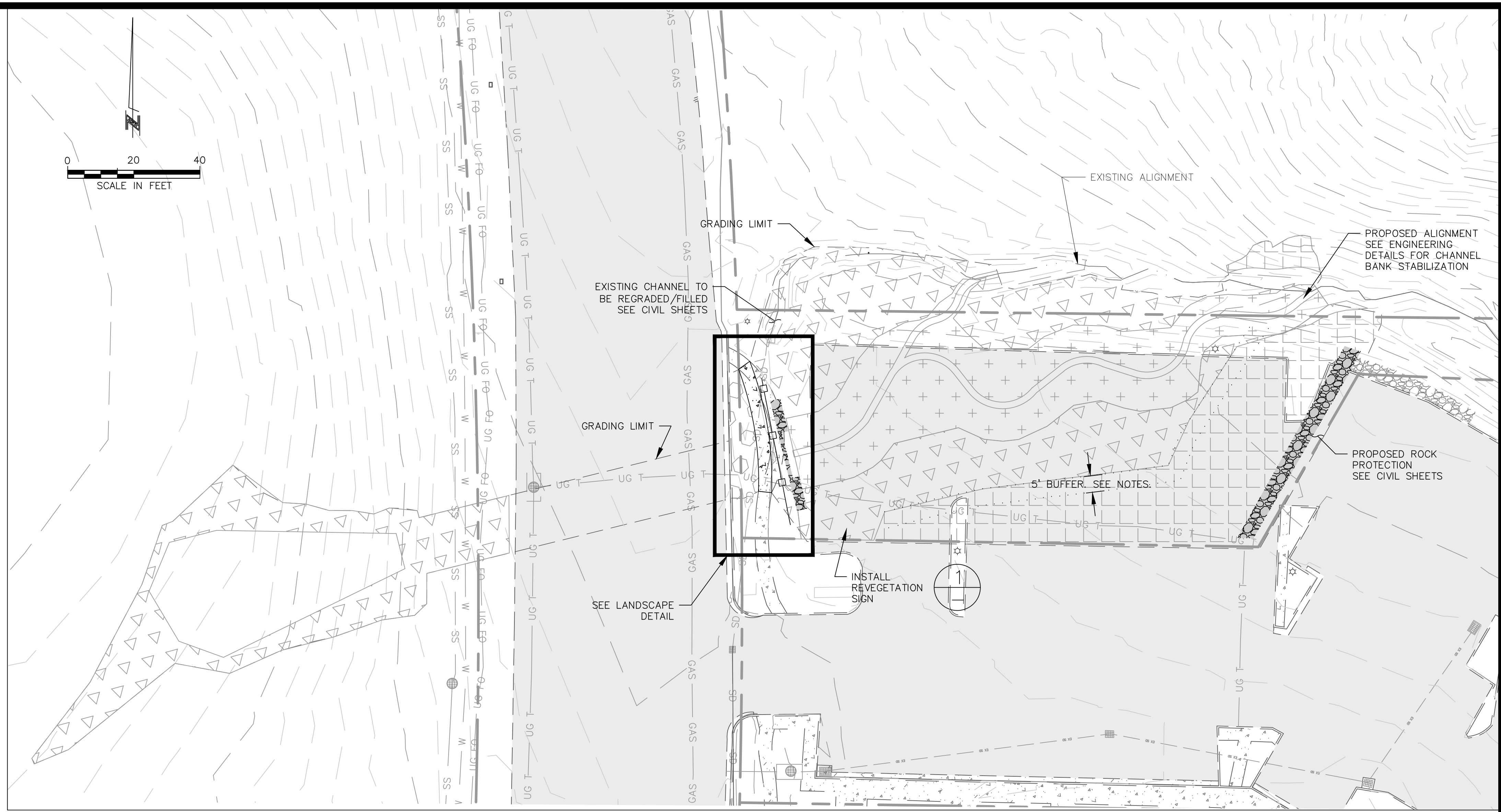
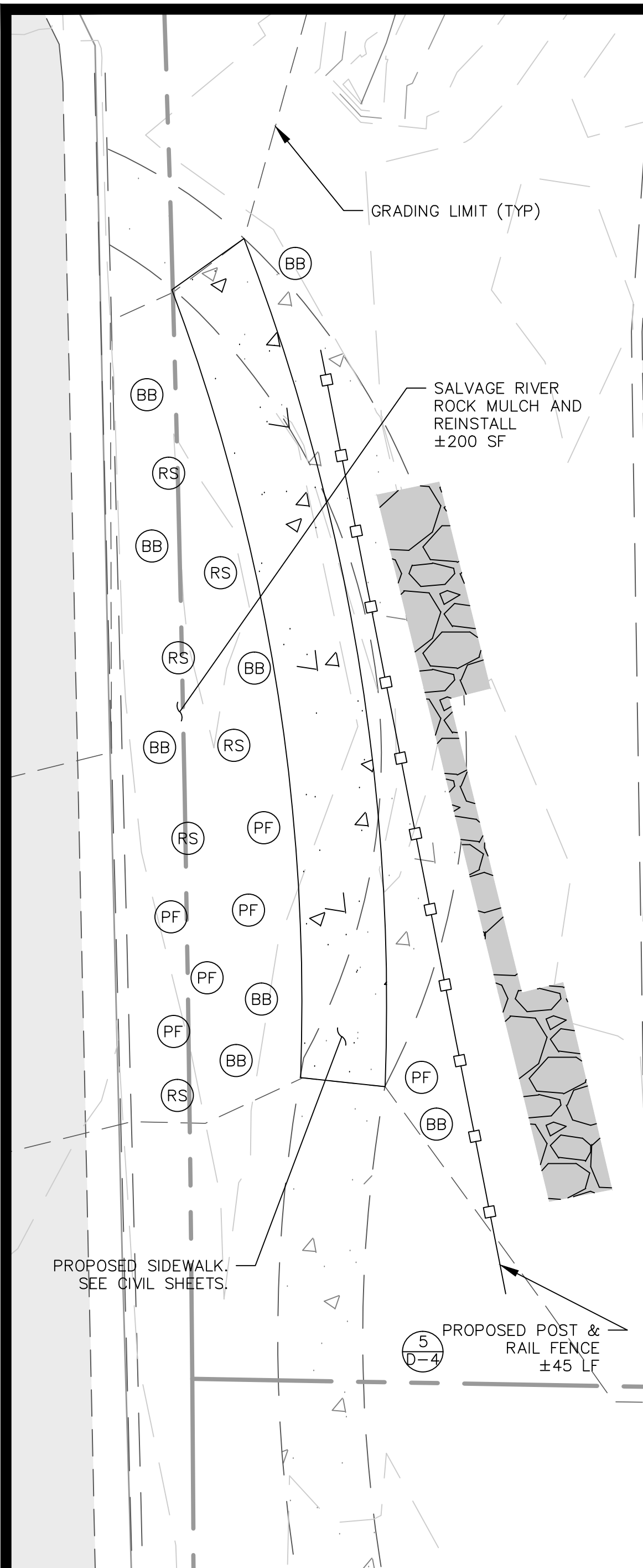
DRAINAGE PLAN NORTH
BURKE CREEK HWY 50 CROSSING AND
REALIGNMENT PROJECT
PHASE 1

- NOTES:
1. ALL UTILITY HORIZONTAL AND VERTICAL LOCATIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY CONFLICTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
 2. ISOLATION VALVE INSTALLATION TO BE PERFORMED BEFORE WATERLINE RELOCATION WORK AND COORDINATED WITH KGID. SEE SHEET C-7 FOR WATERLINE RELOCATION.



90% DESIGN PLANS
NOT FOR CONSTRUCTION

DESIGNED/DRAWN	MBG/MBG
CHECKED	MCK
DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC
SHEET	C-9
	16 of 25

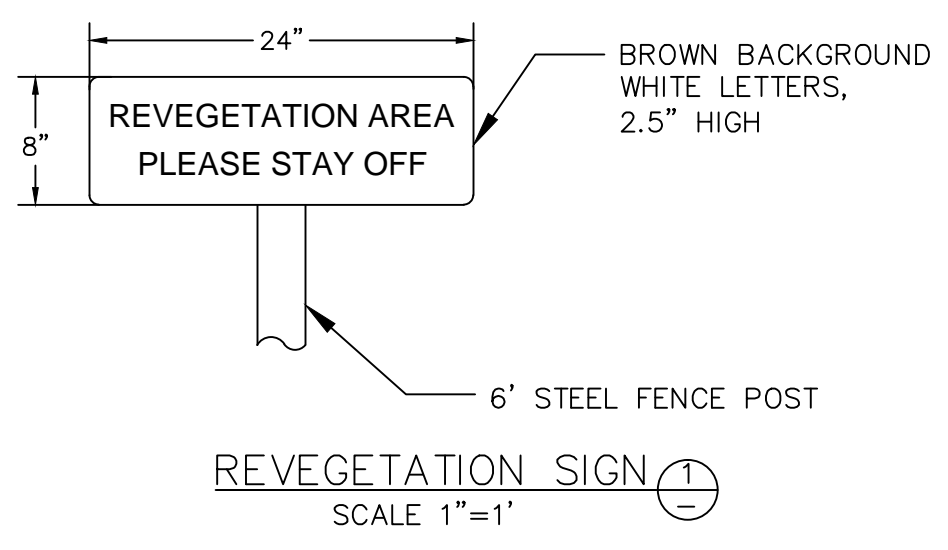


REVEGETATION LEGEND

	TREATMENT TYPE 1 (±3,590 SF)
	TREATMENT TYPE 2 (±8,370 SF)
	TREATMENT TYPE 3 (±3,610 SF)
	TREATMENT TYPE 4 (±300 SF)
	ROCK SLOPE PROTECTION
	TREE/SHRUB WITH SPECIES SYMBOL

PLANT LEGEND				PERENNIALS				
SYMBOL	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
AS	<i>Populus tremuloides</i>	Aspen	12	5-gal	<i>Gaillardia pulchella</i>	Indian Blanketflower	20	Supercell
SB	<i>Amelanchier alnifolia</i>	Serviceberry	8	T-pot	<i>Arnica nevadensis</i>	Sierra Arnica	20	Supercell
SW	<i>Salix scouleriana</i>	Scouler's Willow	4	D-pot	<i>Delphinium glaucum</i>	Towering Larkspur	20	Supercell
SH	<i>Salix lucida ssp. lasiandra</i>	Shining Willow	4	D-pot	<i>Potentilla gracilis</i>	Slender Cinquefoil	20	Supercell
LW	<i>Salix lemmonii</i>	Lemmon's Willow	4	D-pot	<i>Mimulus guttatus</i>	Common Monkeyflower	20	Supercell
DW	<i>Cornus sericea</i>	Red-Osier Dogwood	8	D-pot	<i>Castilleja miniata ssp. miniata</i>	Giant Red Paintbrush	20	Supercell
EB	<i>Sambucus nigra (mexicana)</i>	Blue Elderberry	5	1-gal	<i>Castilleja parviflora</i>	Small-Flowered Paintbrush	20	Supercell
MS	<i>Spirea densiflora</i>	Mountain Spirea	10	1-gal	<i>Arnica longifolia</i>	Seep-Spring Arnica	20	Supercell
SC	<i>Ribes nevadense</i>	Sierra Currant	10	1-gal	<i>Arnica mollis</i>	Soft Arnica	20	Supercell
TW	<i>Lonicera involucrata</i>	Twinberry	6	1-gal	<i>Rubus parviflorus</i>	Thimbleberry	30	4"
WC	<i>Ribes cereum</i>	Wax Currant	5	1-gal	<i>Aquilegia formosa</i>	Columbine	20	4"
WR	<i>Rosa woodsii</i>	Woods' Rose	10	1-gal	<i>Lupinus polyphyllus</i>	Big Leafed Lupine	20	4"
WB	<i>Betula occidentalis</i>	Water Birch	6	Supercell	<i>Lilium parvum</i>	Alpine Lily	10	4"
MA	<i>Sorbus californica</i>	Mountain Ash	6	Supercell	<i>Potentilla glandulosa</i>	Sticky Cinquefoil	20	4"
RS	<i>Perovskia atriplicifolia</i>	Russian Sage	8	1-gal	<i>Mimulus lewisii</i>	Lewis' Monkeyflower	20	4"
PF	<i>Potentilla fruticosa</i>	Shrubby Cinquefoil	7	1-gal	<i>Helenium bigelovii</i>	Bigelow Sneezeweed	20	4"
BB	<i>Arctostaphylos uva-ursi</i>	Bearberry	11	1-gal	<i>Penstemon rydbergii var. oreocharis</i>	Meadow Penstemon	20	4"





- NOTES:
1. FINAL PLANT AND PERENNIAL LOCATIONS TO BE DETERMINED IN FIELD BY REVEGETATION SPECIALIST.
 2. SALVAGED WETLAND PLUGS TO BE PLANTED AS DIRECTED BY REVEGETATION SPECIALIST.
 3. SEEDS AND CONTAINER PLANTS TO BE SUPPLIED BY NTCD.
 4. SEE CIVIL ENGINEERING PLANS AND DETAILS FOR CHANNEL STABILIZATION AND GRADING DETAILS.
 5. NO TREES OR SHRUBS TO BE PLACED WITHIN LIMITS OF BERM OR AS DIRECTED BY ENGINEER.
 6. A 5 FOOT BUFFER ZONE WILL BE MAINTAINED AT THE TOE OF THE BERM ON THE CHANNEL/FLOODPLAIN SIDE. NO PLANTING OF WOOD OR DEEP ROOTED PLANTS OR BURIED STRUCTURES SHALL BE ALLOWED IN THIS ZONE.
 7. ALL DISTURBED AREAS TO BE REVEGETATED. ADDITIONAL REVEGETATION IN NORTHERN DRAINAGE AND UPSTREAM IMPROVEMENTS WILL BE AS DIRECTED BY ENGINEER AND PER SPECIFICATION






90% DESIGN PLANS NOT FOR CONSTRUCTION


DESIGNED/DRAWN	MCP/MBG
CHECKED	MCK
DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC
SHEET	R-1

BURKE CREEK HIGHWAY 50 CROSSING AND REALIGNMENT PROJECT

FUNDING PROVIDED BY:    

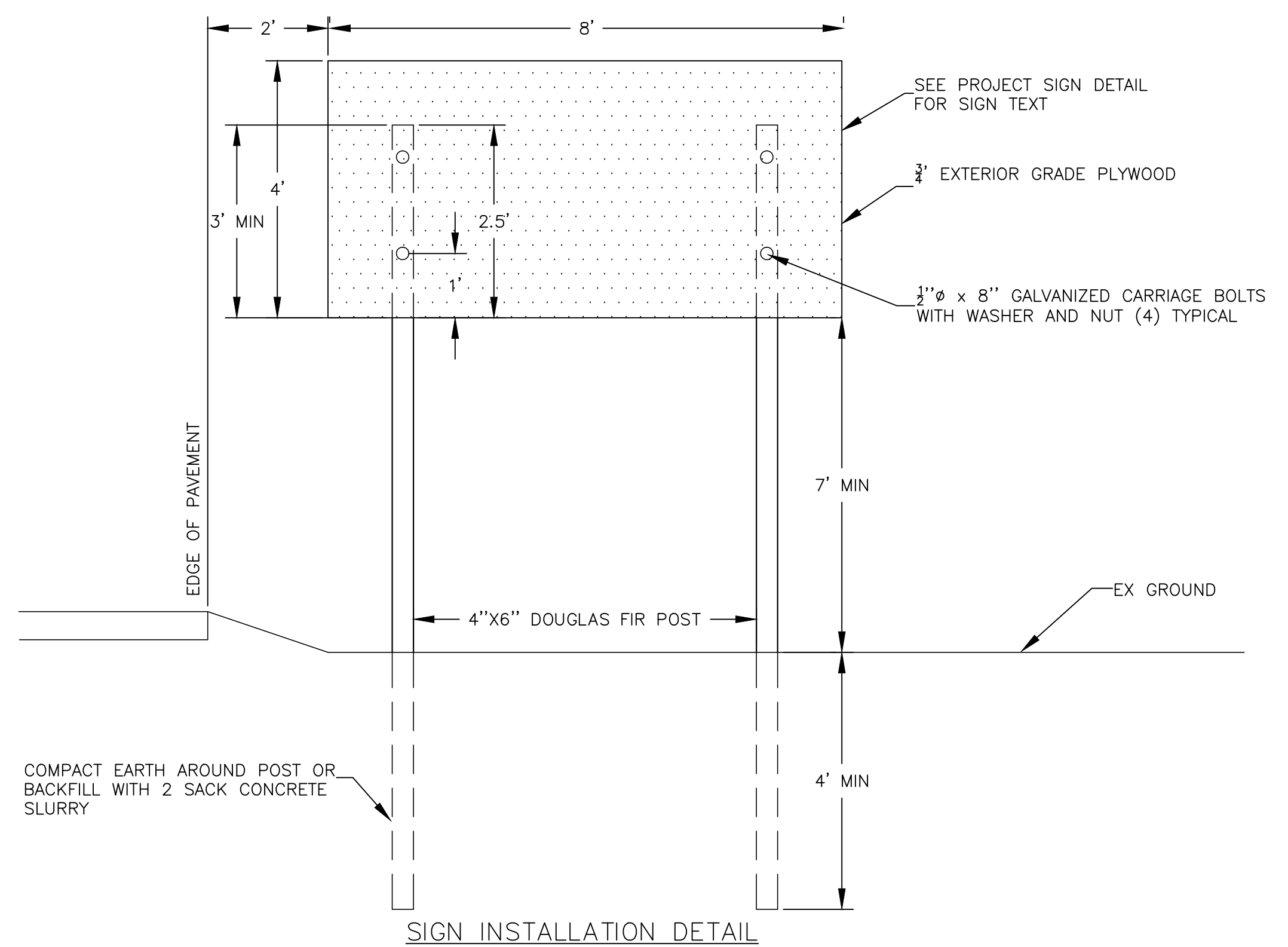
PARTNERS:  

DESIGN & CONSTRUCTION MANAGEMENT: 

CONSTRUCTION CONTRACTOR: 

SIGN NOTES:
1. CONTRACTOR SHALL CONTACT DOUGLAS COUNTY FOR THE LETTER FONT, STYLE, SIZE, SPACING, AND GRAPHIC ART MAY BE ADJUSTED BY THE CONTRACTOR AS NEEDED TO CREATE THE HIGHEST QUALITY CRAFTSMANSHIP DISPLAYED BY THE FINISHED PRODUCT.
2. LOCATION AS DIRECTED BY ENGINEER.

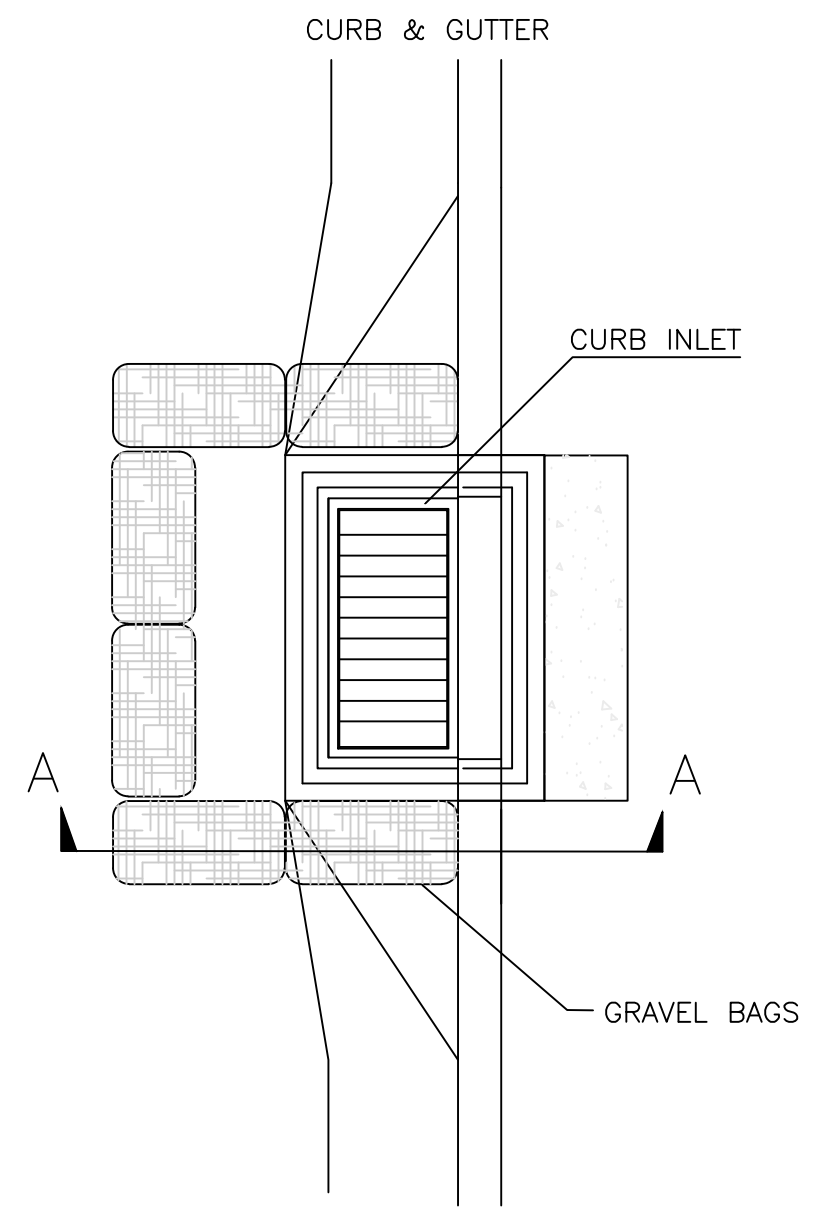
PROJECT SIGN DETAIL



TEMPORARY PROJECT SIGN

1
D-1

SCALE: N.T.S.

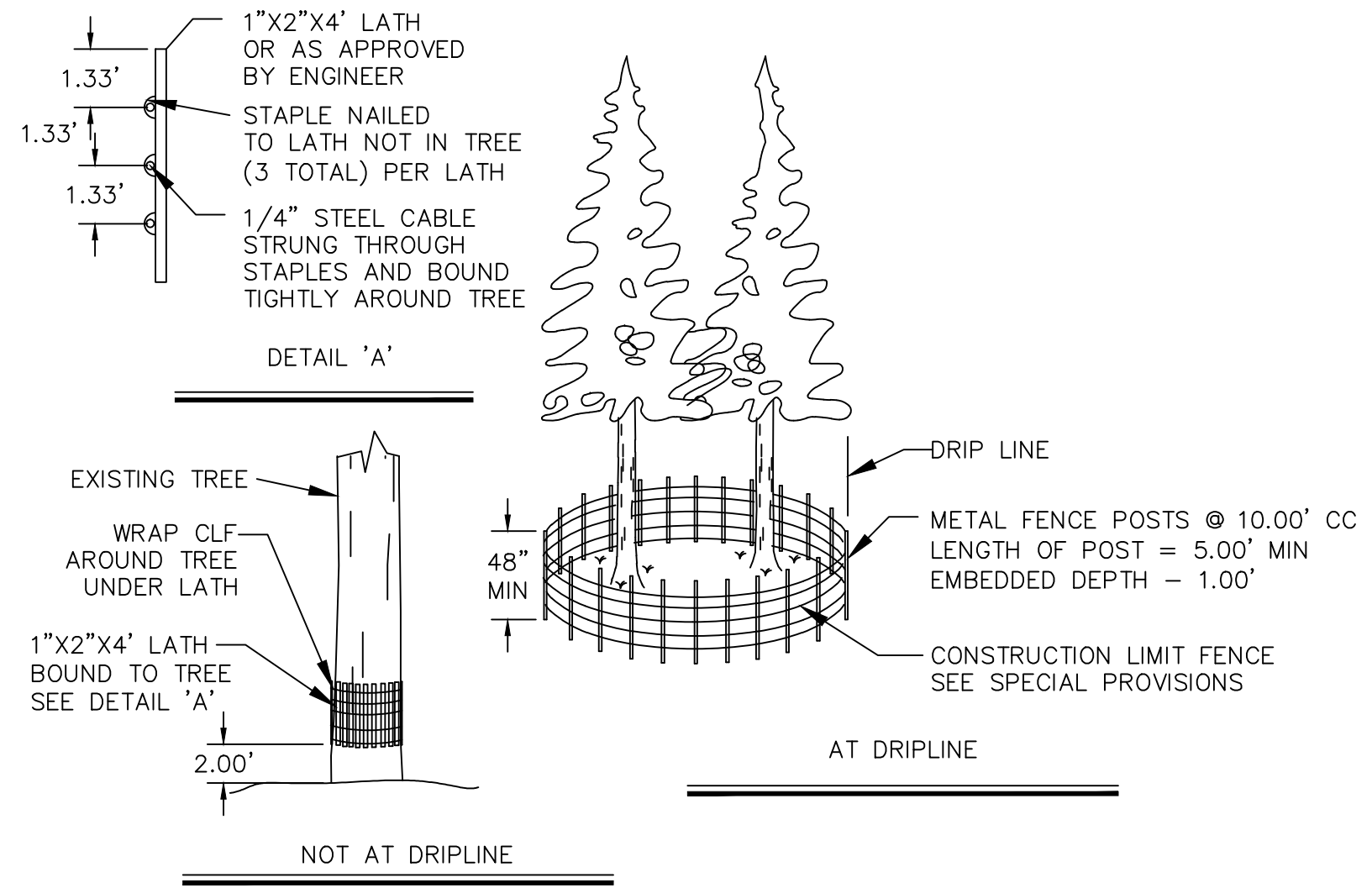


SECTION A-A

DRAINAGE INLET PROTECTION

2
D-1

SCALE: N.T.S.

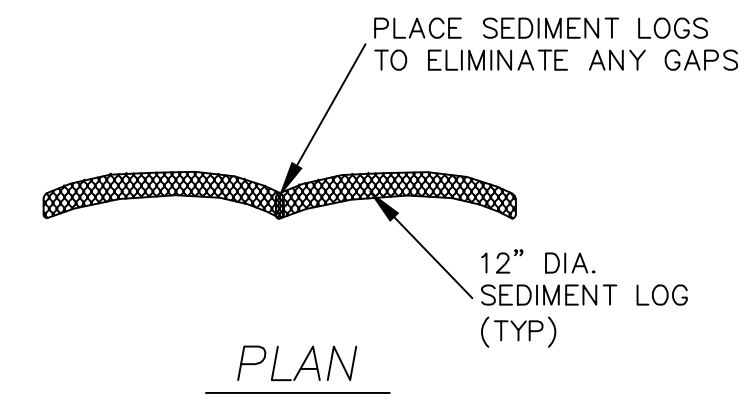


CONSTRUCTION LIMIT AND TREE PROTECTION FENCING

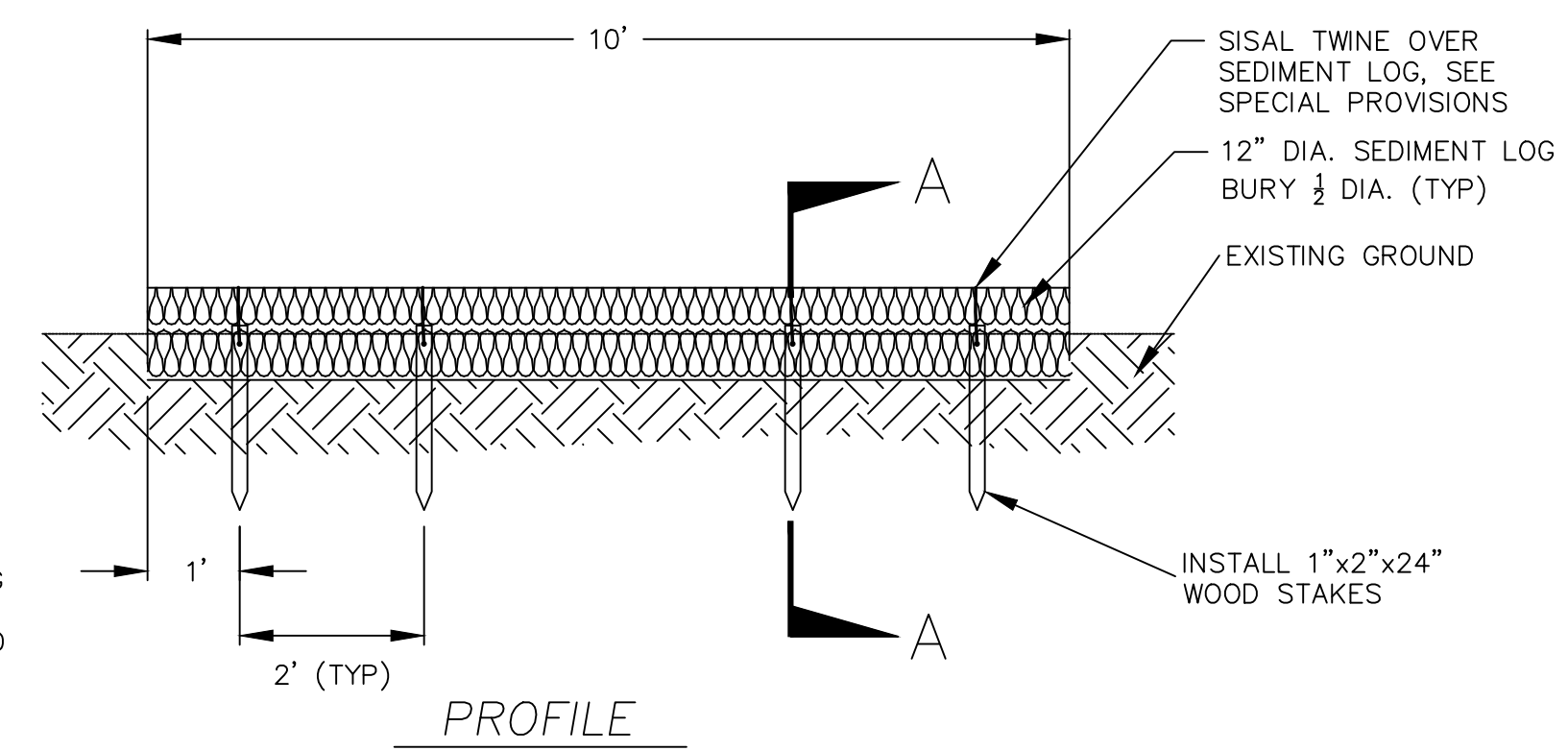
3
D-1

NOT TO SCALE

NOTE:
1. CLF AND TREE PROTECTION FENCE SHALL BE A MINIMUM OF 48" HIGH. FOR TREES WITH DRIPLINES THAT OVERHANG THE CONSTRUCTION AREAS, THE LOCATION OF THE TREE PROTECTION FENCE SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER AND/OR THE TRPA AT THE PREGRADE MEETING.
2. THE DETAIL SHOWN IS FOR TREE PROTECTION. MATERIAL AND SPACING SHOWN ALSO APPLIES TO CLF.
3. QUANTITY OF FILTER FENCE AND CONSTRUCTION LIMIT FENCE DOES NOT INCLUDE MINIMUM LIMITS FOR TREE PROTECTION. TREE PROTECTION FENCING TO BE PER DETAIL THIS SHEET AND/OR AS DETERMINED IN THE FIELD.



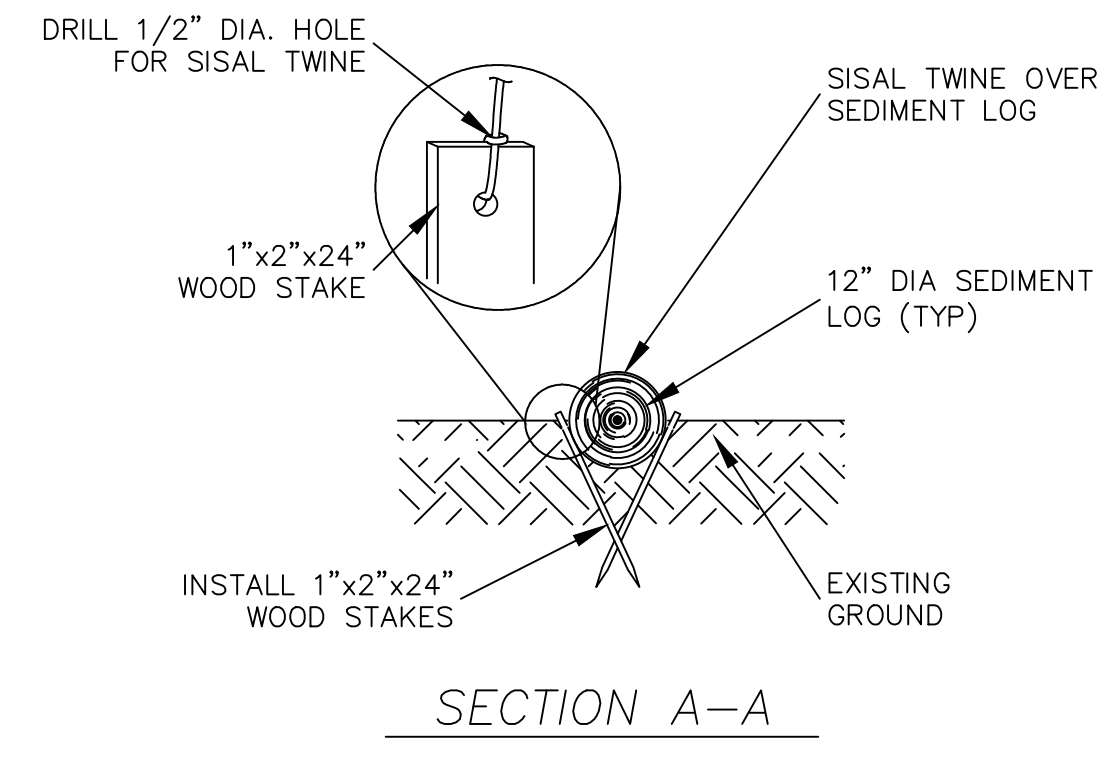
NOTES:
1. PLACEMENT OF SEDIMENT LOGS IS SUBJECT TO EXISTING CONDITIONS. FINAL LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. SEE SPECIAL PROVISIONS FOR SPECIFICATIONS REGARDING SEDIMENT LOG MATERIAL REQUIREMENTS.
3. WEIGHTED SEDIMENT LOGS MAY BE NECESSARY ON PAVED AREAS.



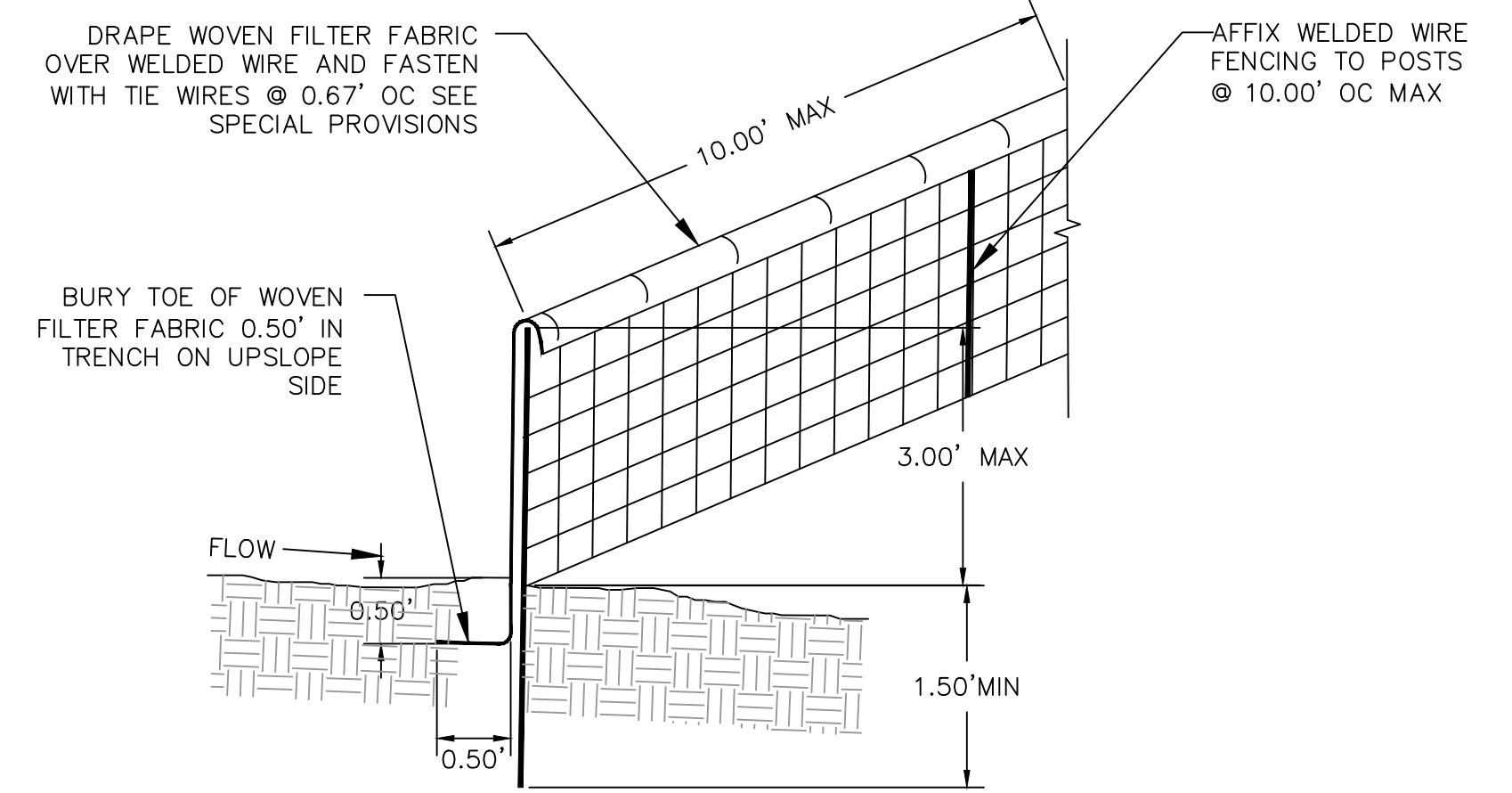
SEDIMENT ROLL (COIR LOG)

4
D-1

NOT TO SCALE



SECTION A-A



FILTER FENCE

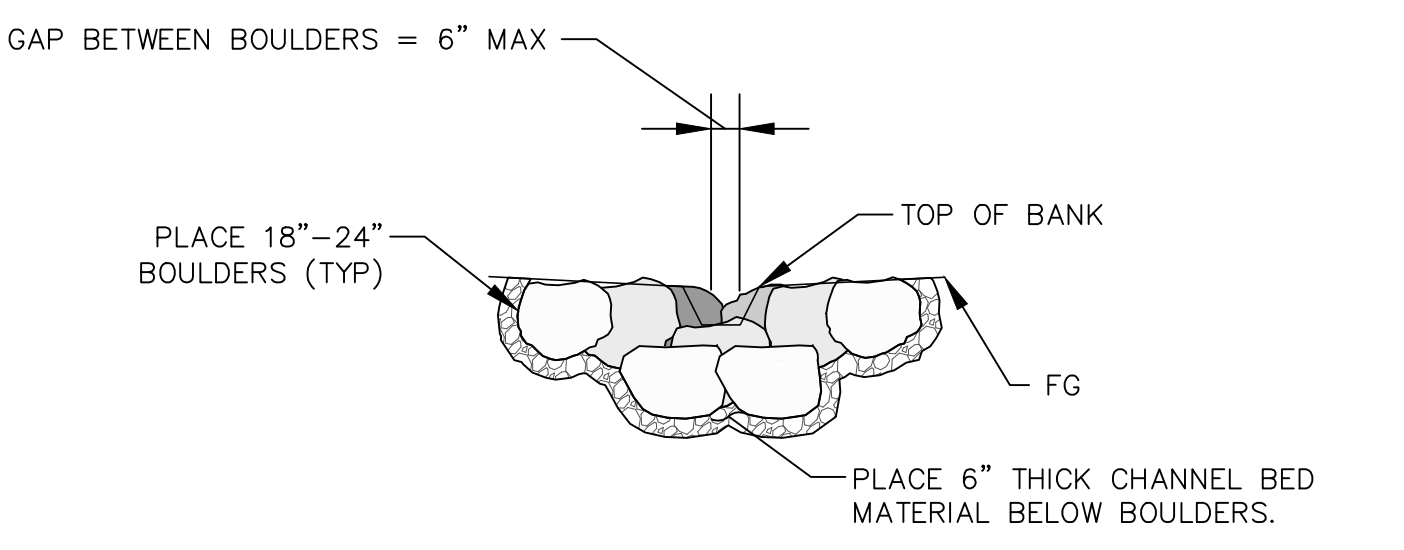
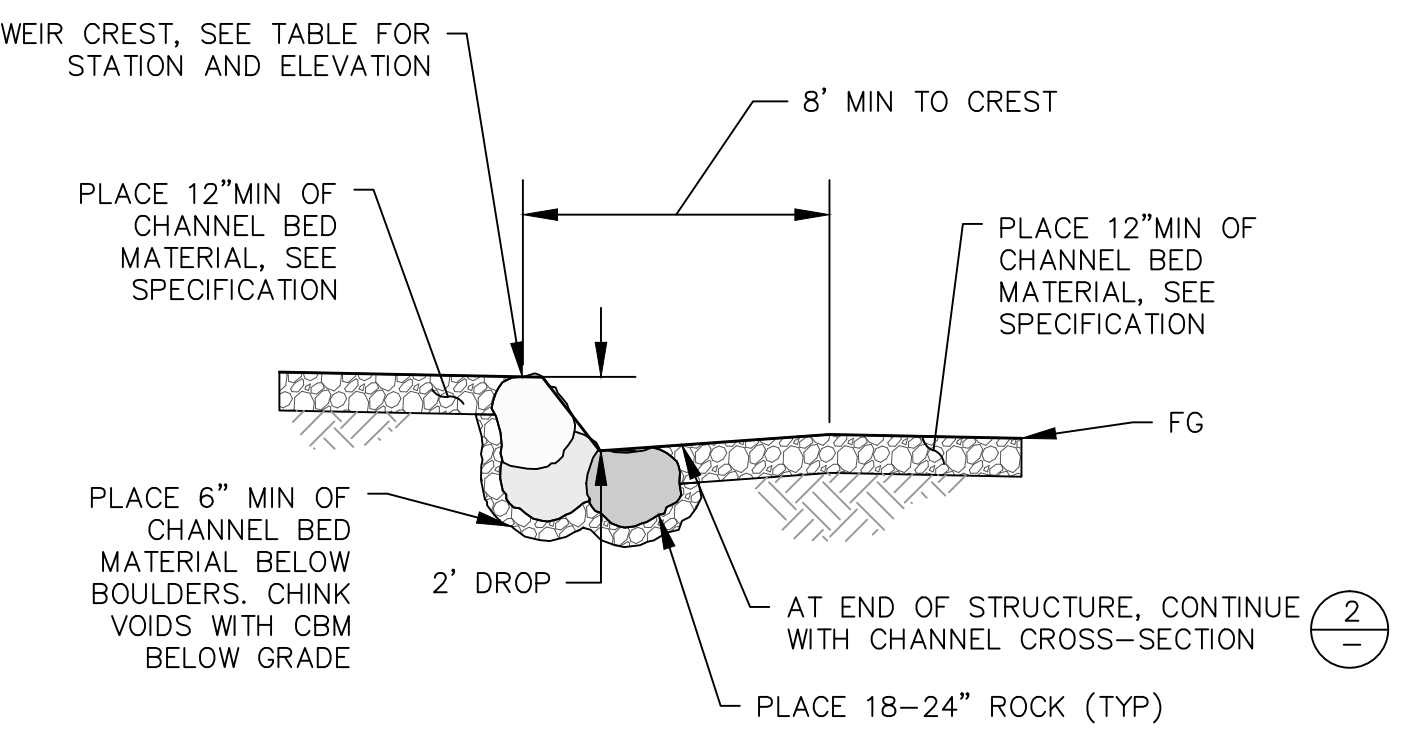
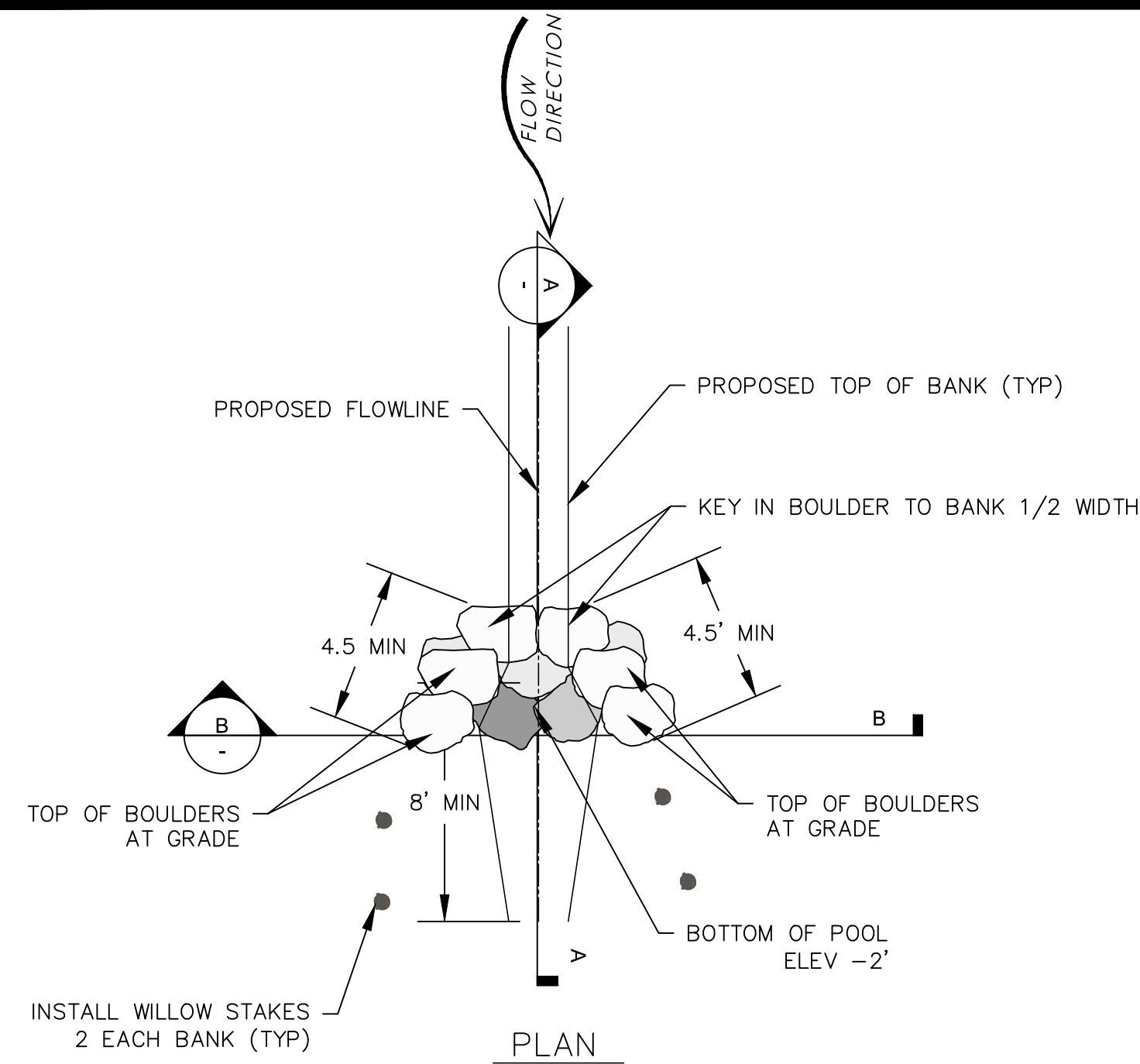
5
D-1

NOT TO SCALE

NOTES:
1. CONTRACTOR MAY USE PRE MANUFACTURED SEDIMENT CONTROL FENCE AS APPROVED BY TRPA. SEE SPECIAL PROVISIONS.
2. PLACE FENCING SUCH THAT STORM RUNOFF CANNOT PASS AROUND OR UNDER FENCE

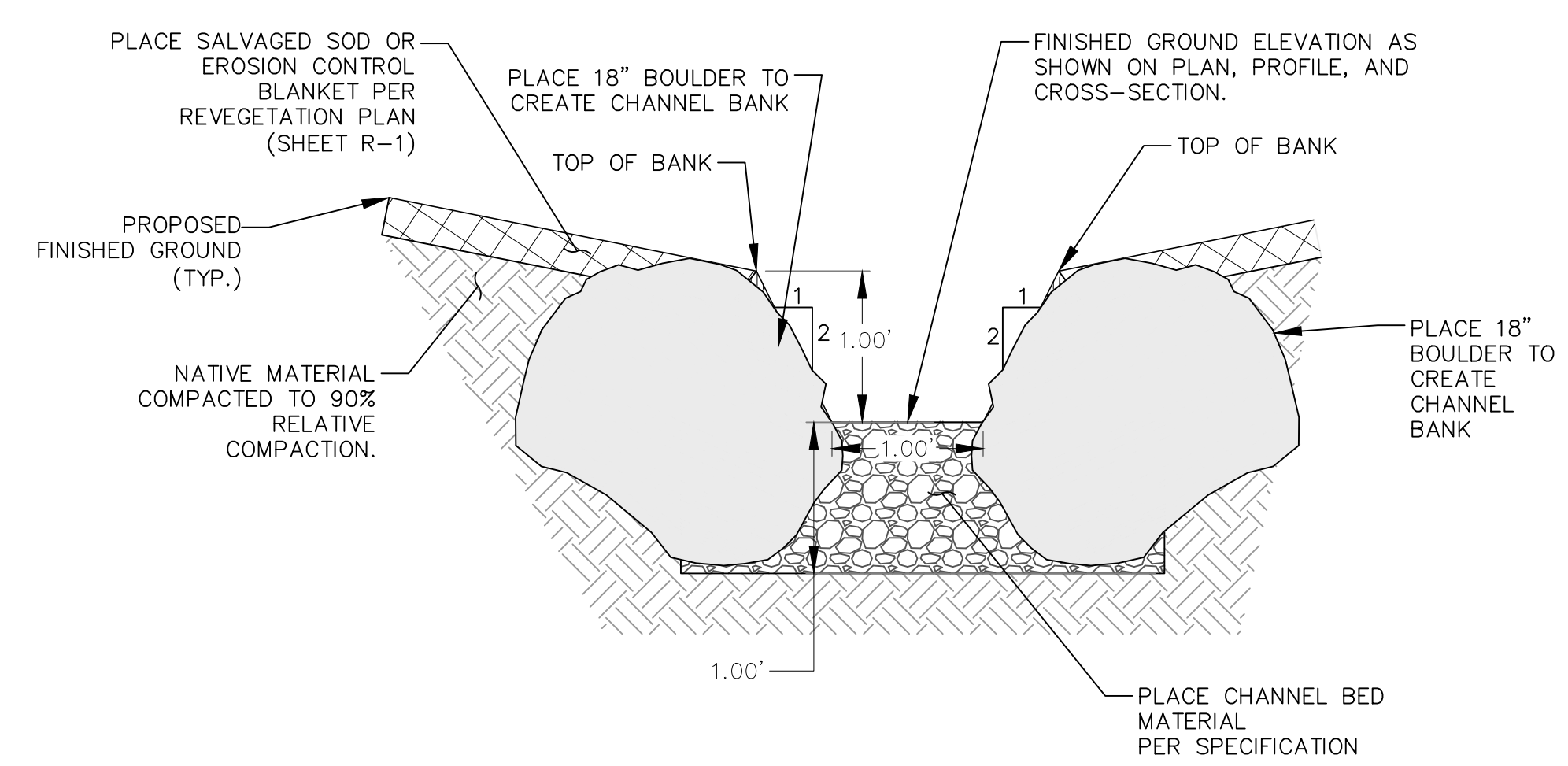
90% DESIGN PLANS
NOT FOR CONSTRUCTION

DESIGNED/DRAWN	MK/MK
CHECKED	MG
DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC
SHEET	

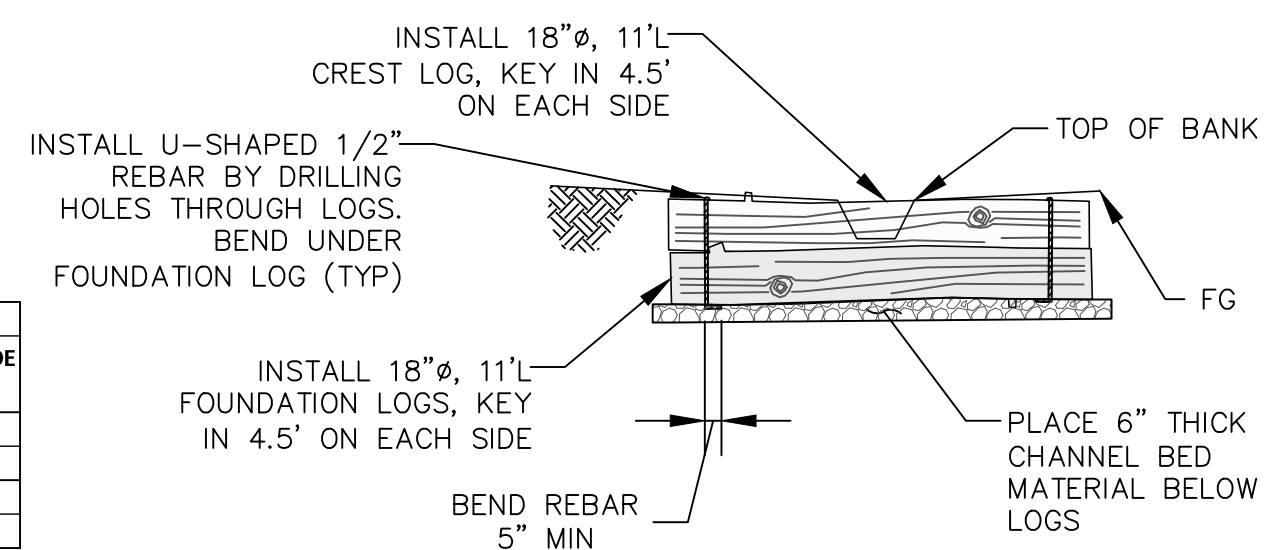
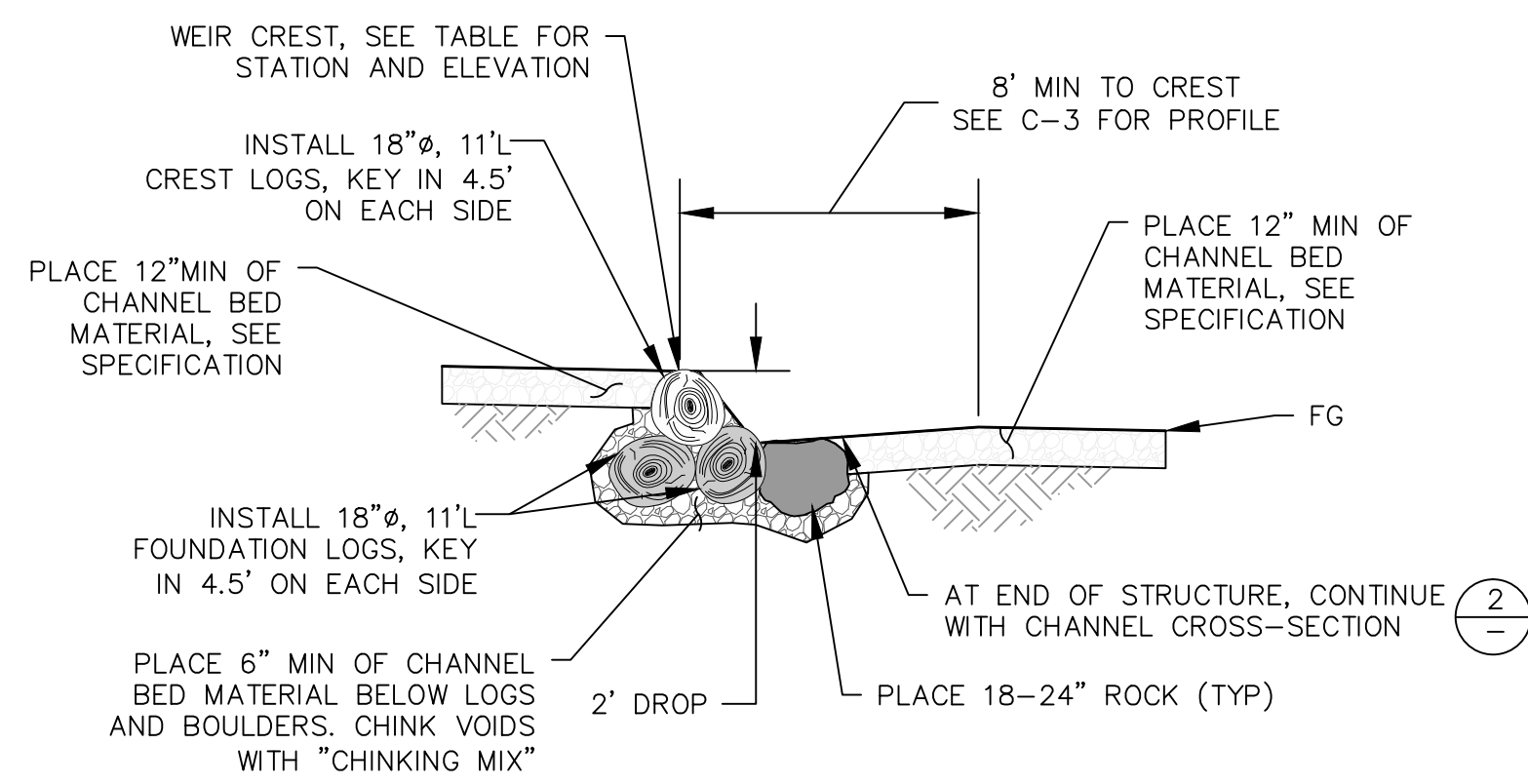
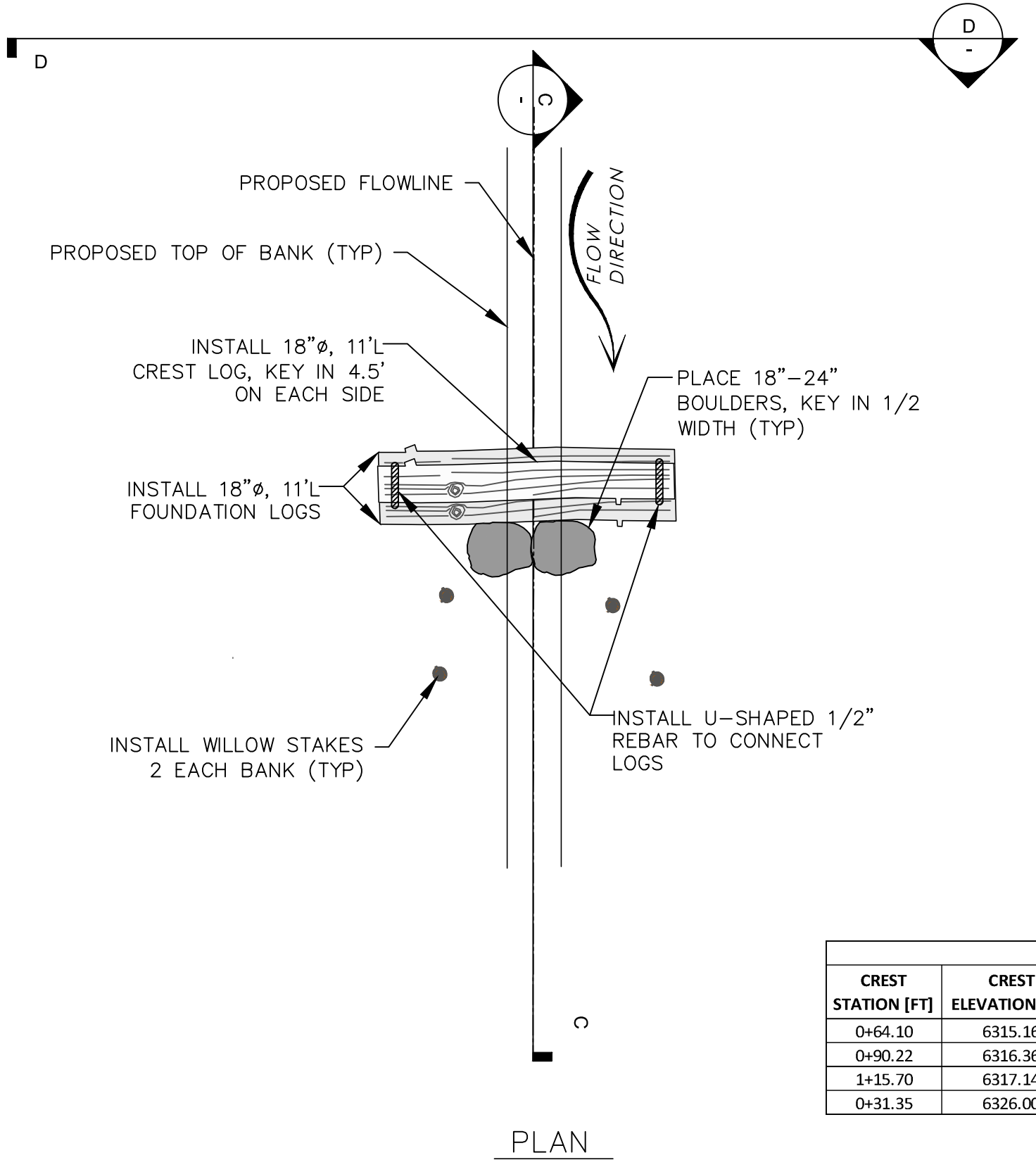


BOULDER STEP POOLS					
CREST STATION [FT]	CREST ELEVATION [FT]	POOL LENGTH [FT]	OVERALL DROP [FT]	ASSOCIATED CHORD/LINE	MAIN OR SIDE CHANNEL
0+22.97	6316.24	8.22	1.0	C1	MAIN
0+79.35	6315.80	8.00	0.5	C3	MAIN
1+36.38	6317.87	9.00	0.5	C5	MAIN
1+46.84	6319.40	9.00	1.5	C5	MAIN
1+55.56	6320.91	8.00	1.5	C6	MAIN
1+64.13	6322.43	8.00	1.5	C6	MAIN
1+83.19	6324.14	8.14	1.5	C7	MAIN
1+94.00	6325.20	8.00	1.0	L8	MAIN
0+21.54	6315.46	7.59	1.0	C10	SIDE
0+31.89	6316.48	9.06	1.0	C11	SIDE
0+42.49	6318.00	9.80	1.5	C12	SIDE

BOULDER STEP POOL 1 D-2
SCALE: 1" = 5'

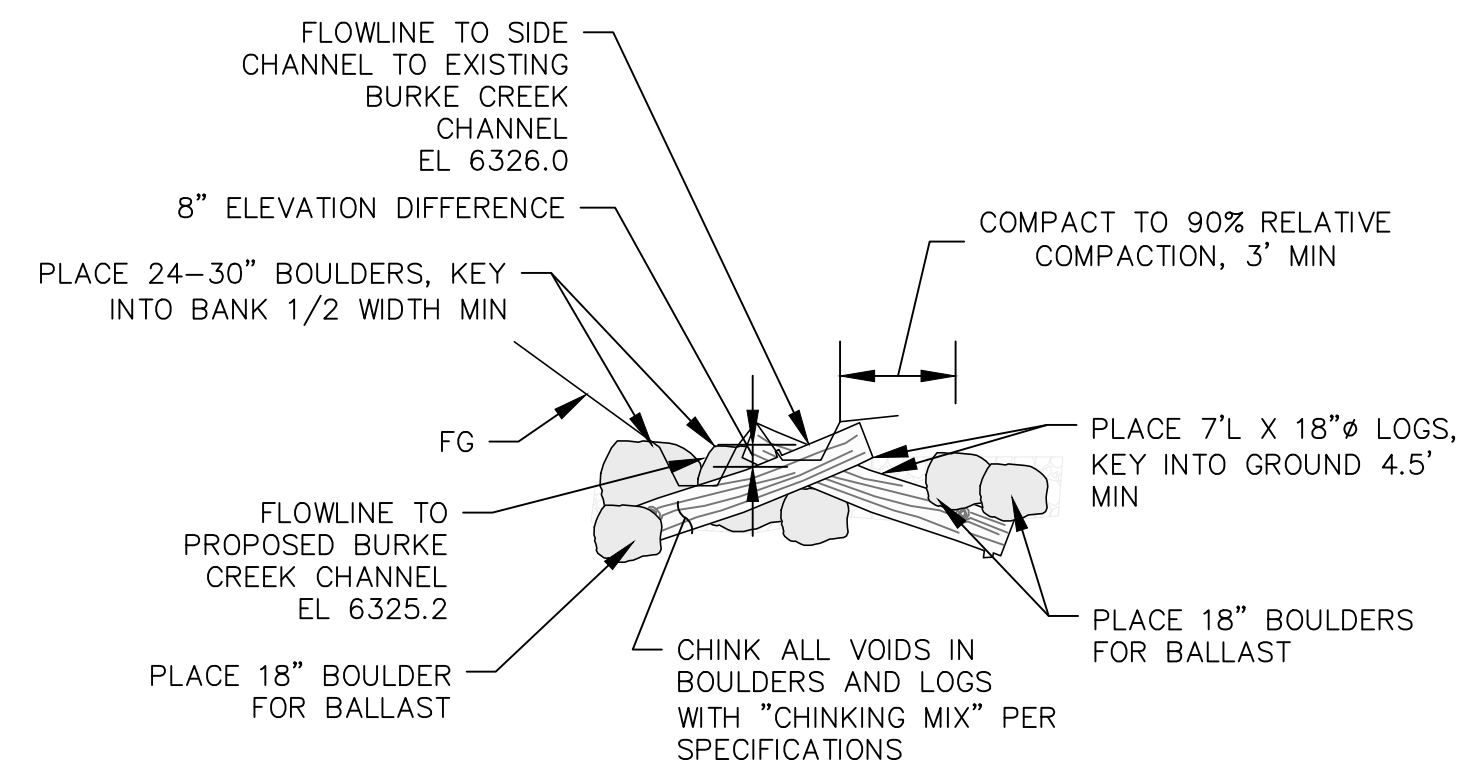
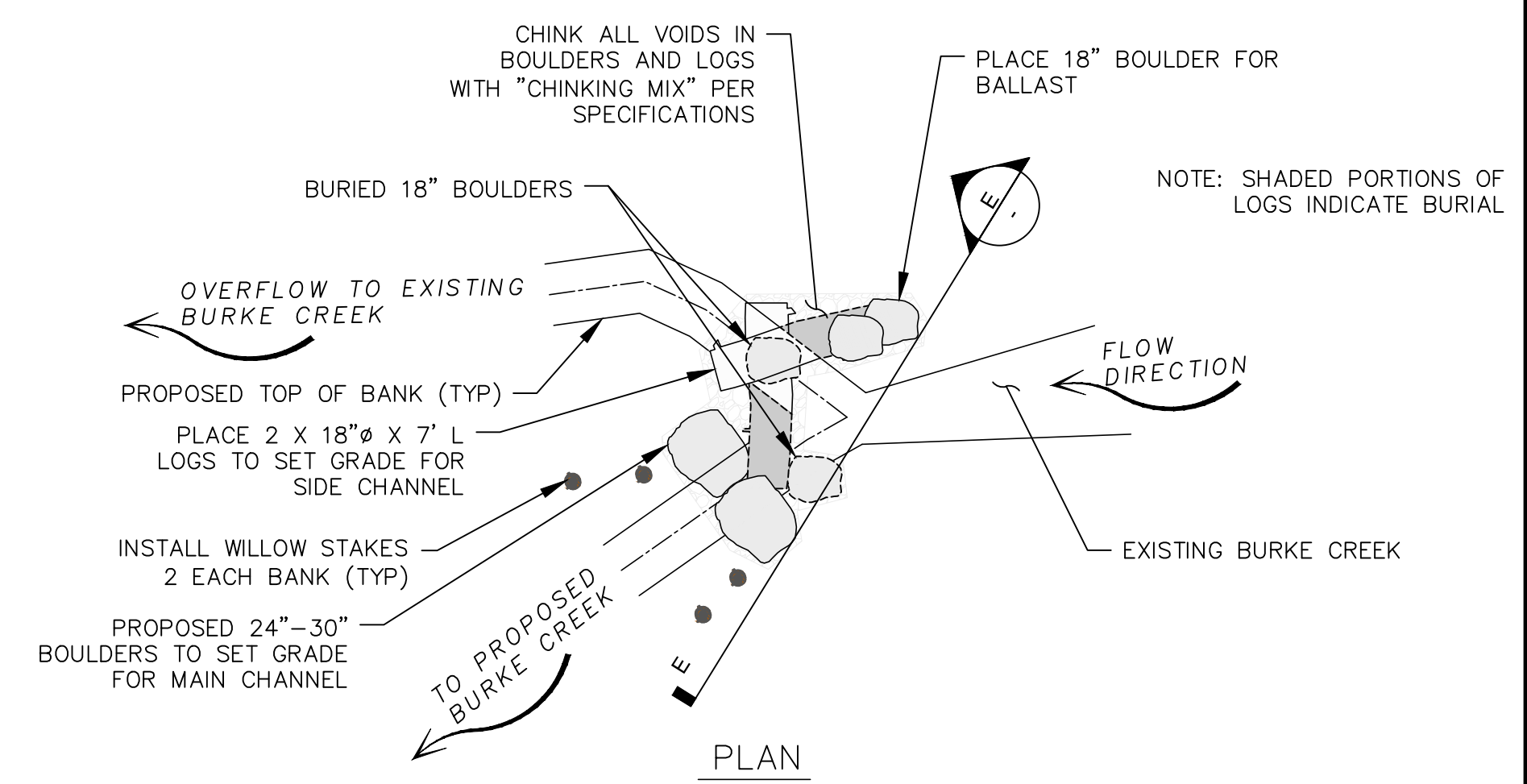


CHANNEL CROSS-SECTION 2 D-2
SCALE: 1" = 1'



LOG STEP POOLS					
CREST STATION [FT]	CREST ELEVATION [FT]	POOL LENGTH [FT]	OVERALL DROP [FT]	ASSOCIATED CHORD/LINE	MAIN OR SIDE CHANNEL
0+64.10	6315.16	23.53	1.5	C2	MAIN
0+90.22	6316.36	8.00	0.5	C3	MAIN
1+15.70	6317.14	11.69	0.5	C4	MAIN
0+31.35	6326.00	10.32	1.5	L23	SIDE

LOG STEP POOL 3 D-2
SCALE: 1" = 5'



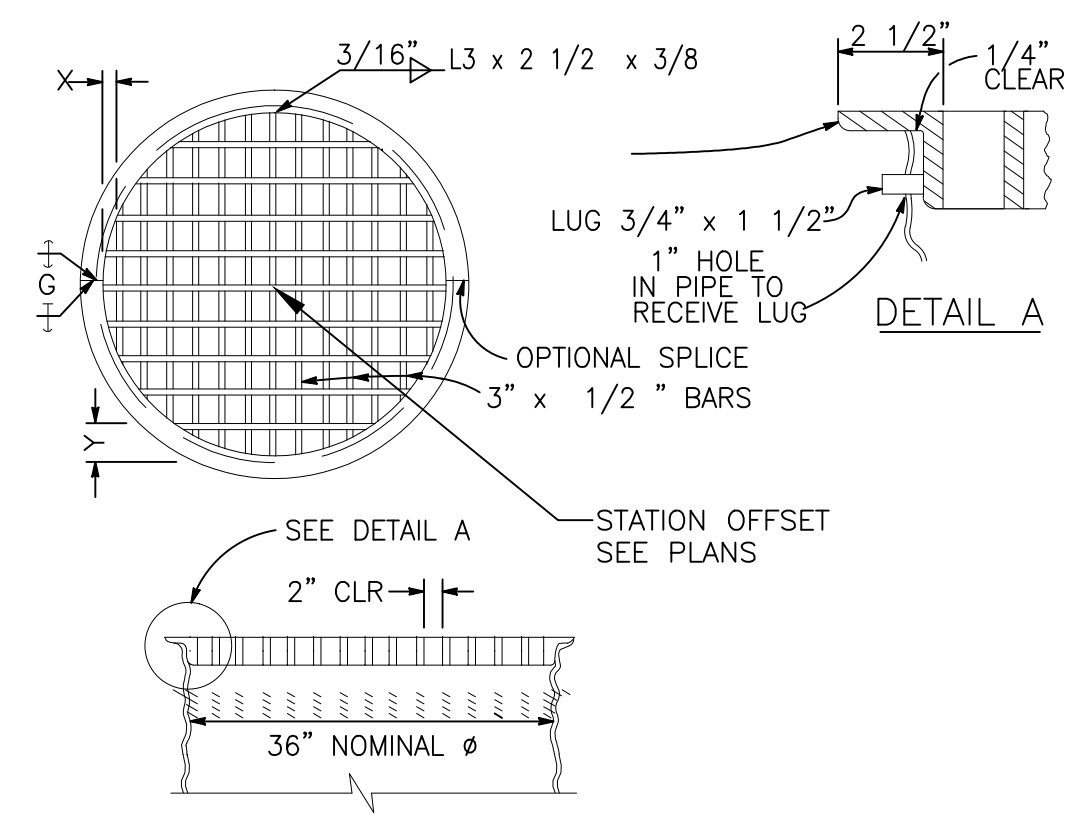
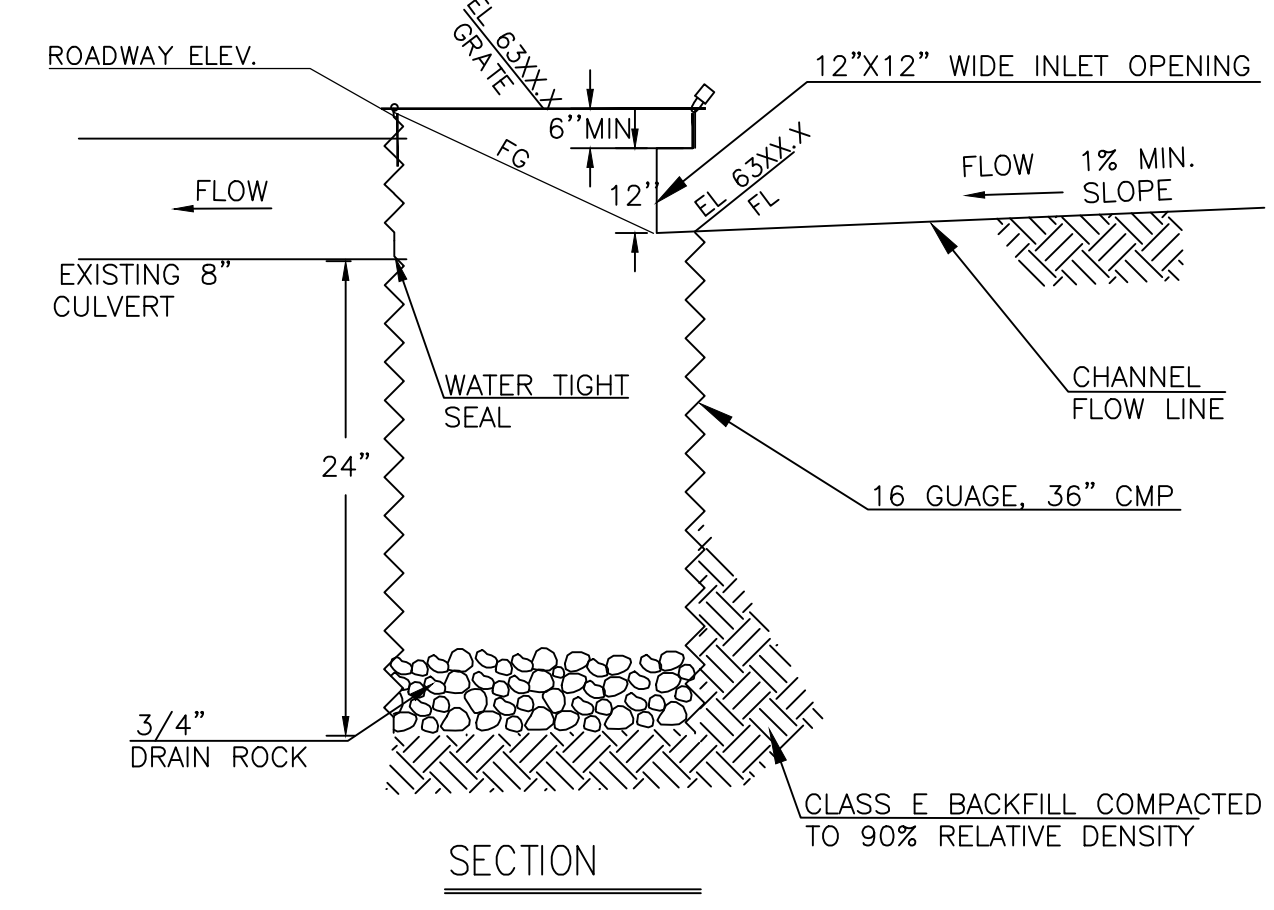
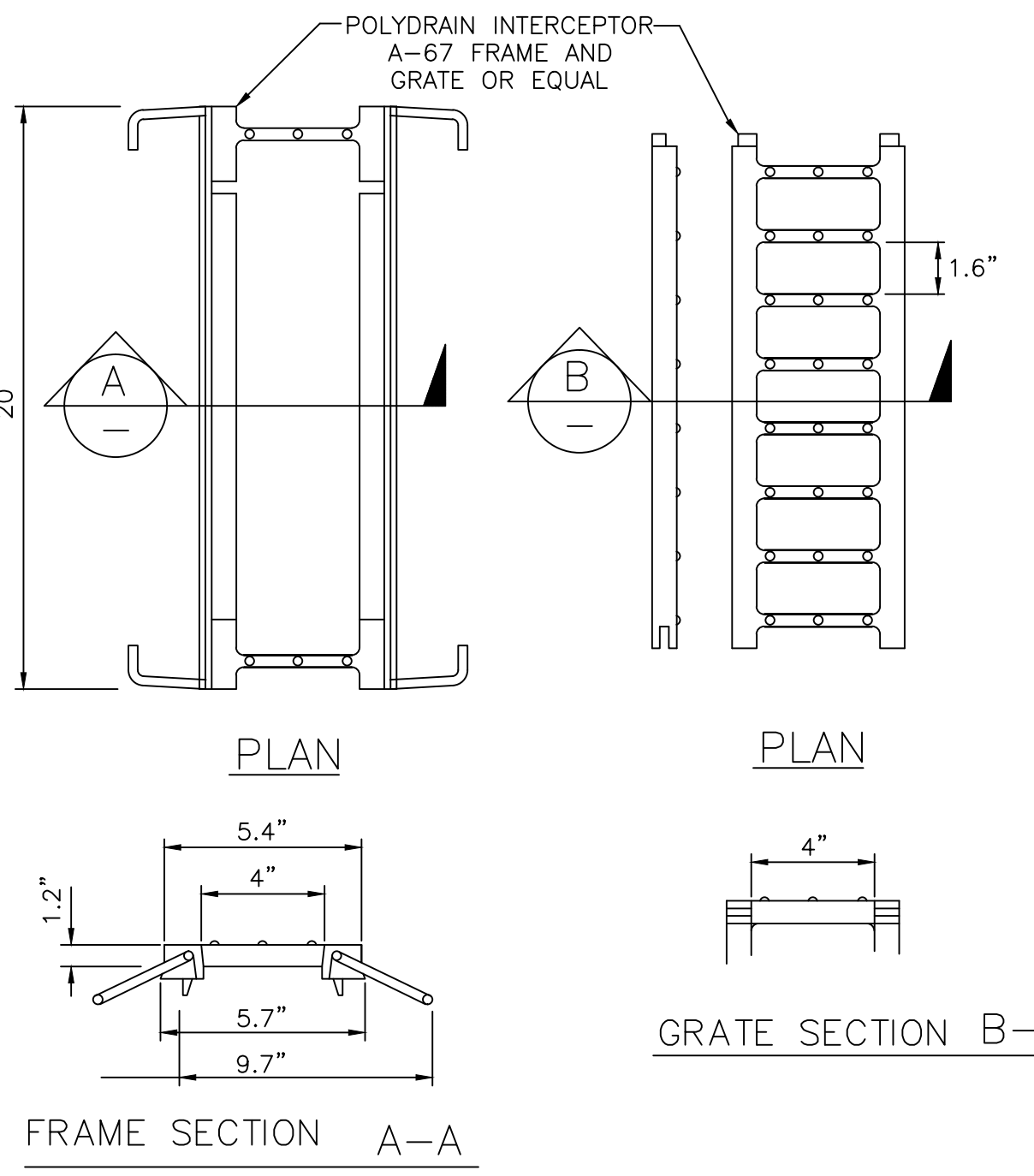
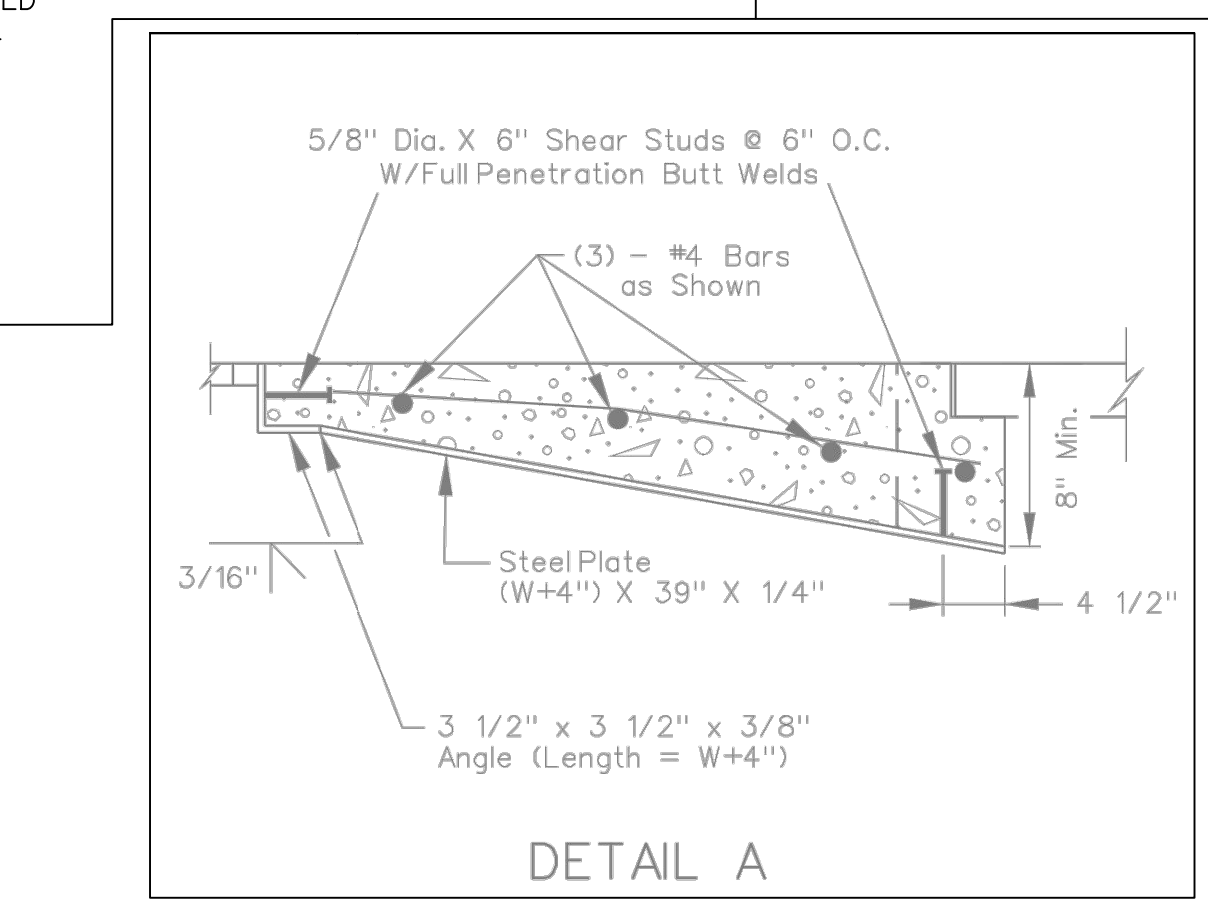
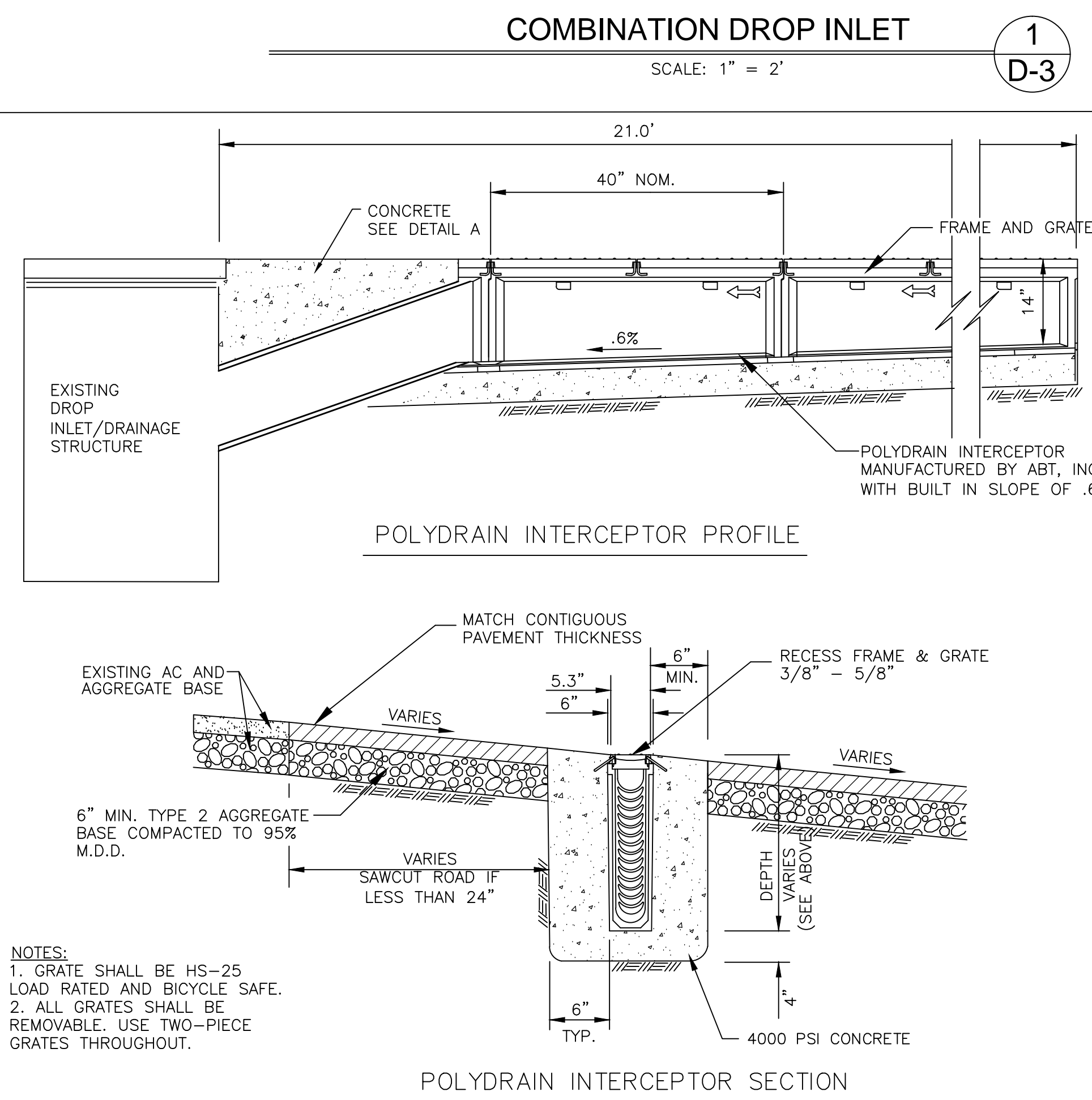
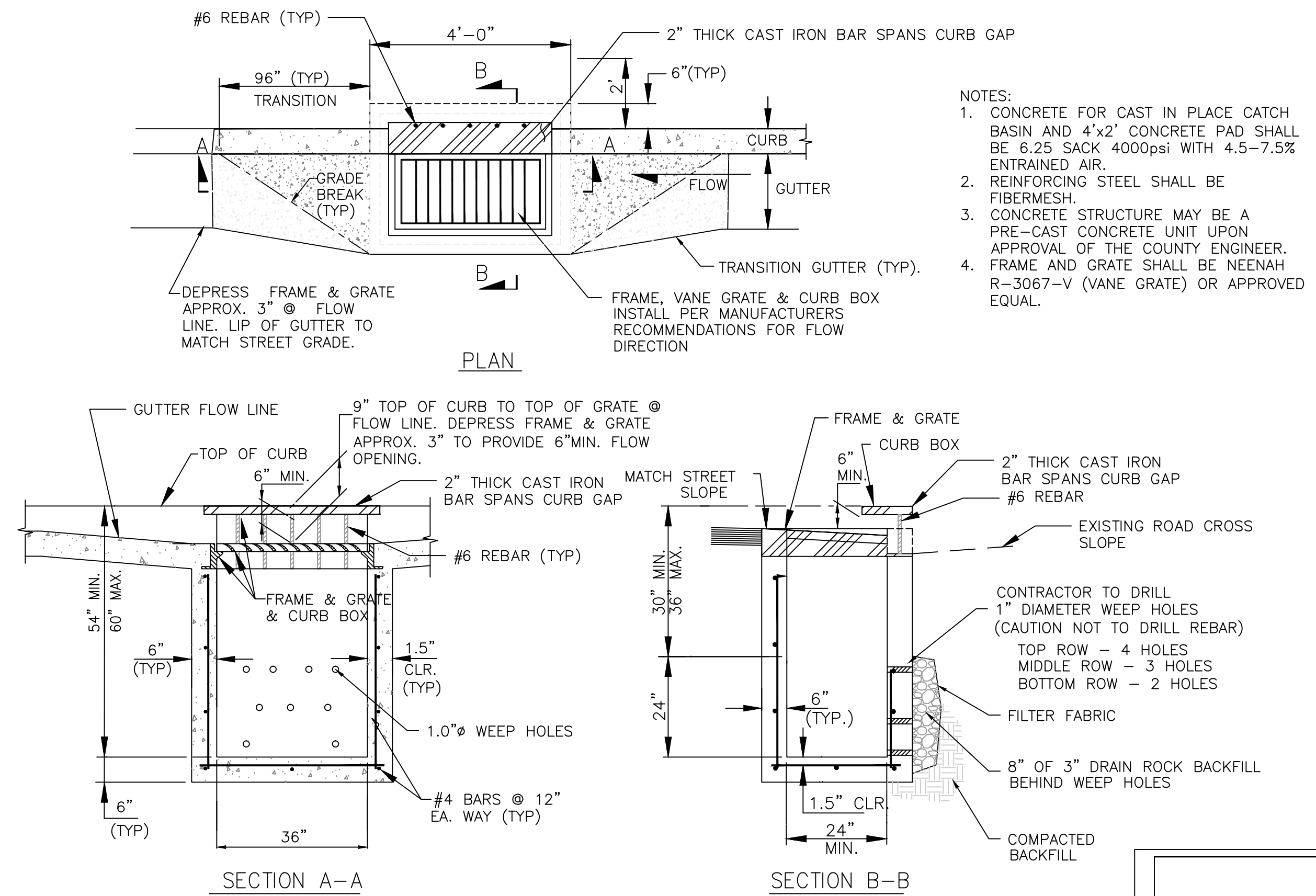
CHANNEL TIE-IN WITH FLOW SPLIT 4 D-2
NOT TO SCALE

90% DESIGN PLANS NOT FOR CONSTRUCTION

DETAILS
BURKE CREEK HWY 50 CROSSING AND REALIGNMENT PROJECT
PHASE 1

DESIGNED/DRAWN	MCK
CHECKED	MBG
DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC
SHEET	D-2

DESIGNED/DRAWN	MK/MK
CHECKED	MG
DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC



GRATE BAR SPACING TABLE

NO. OF BARS	CLEAR SPACING	Y (in)		
		4" SPACING	6" SPACING	Z (in)
13	2"	2 1/8"	-	-

NOTES:

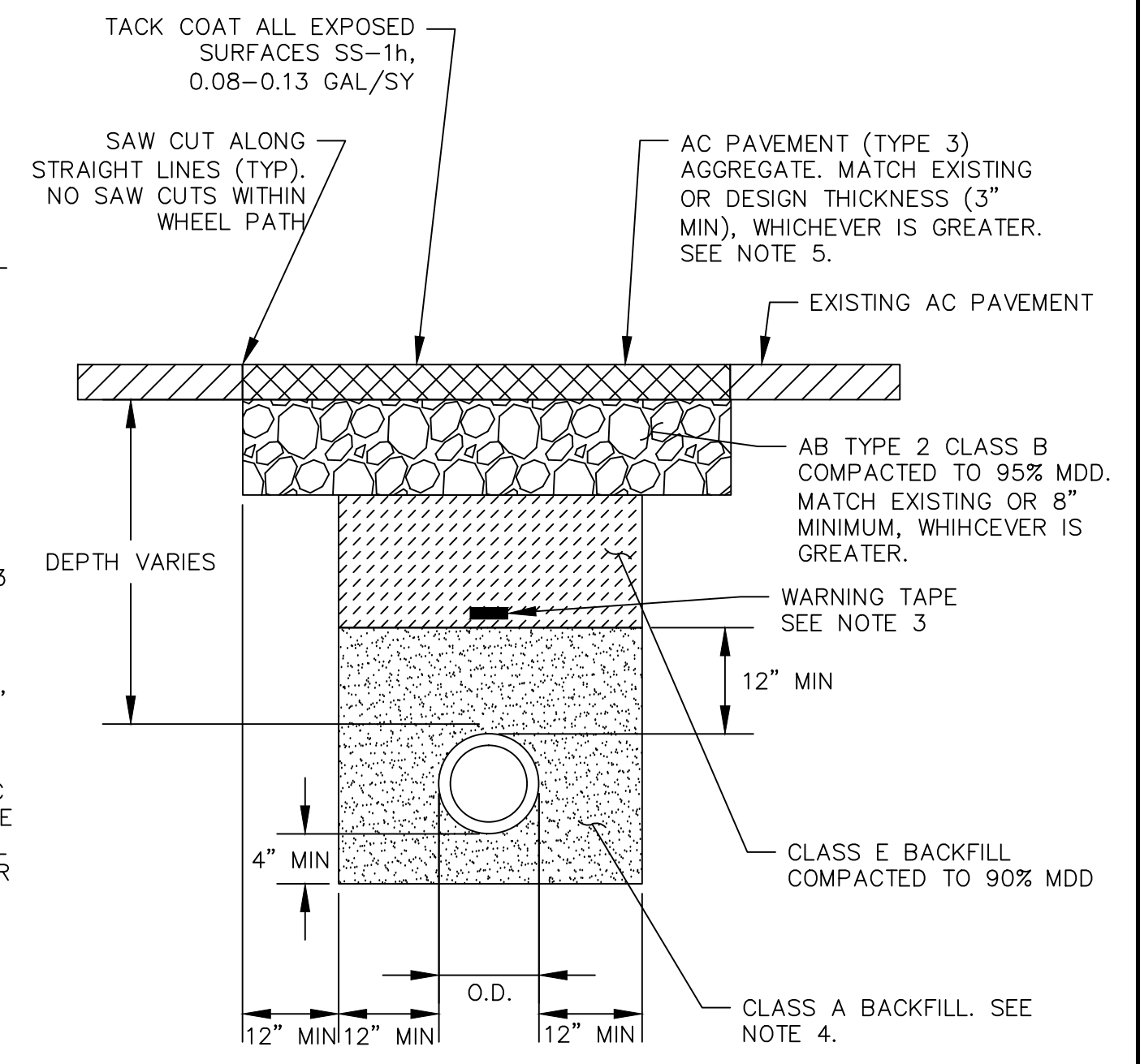
- ALL CONNECTIONS SHALL BE WELDED WITH 1/4" BEAD MIN BOTH SIDES OF BARS.
- ENTIRE GRATE TO BE HOT-DIP GALVANIZED AFTER ASSEMBLY PRIOR TO INSTALLATION.

SEDIMENT TRAP GRATE

DOUBLE SEDIMENT CAN

NOTES:

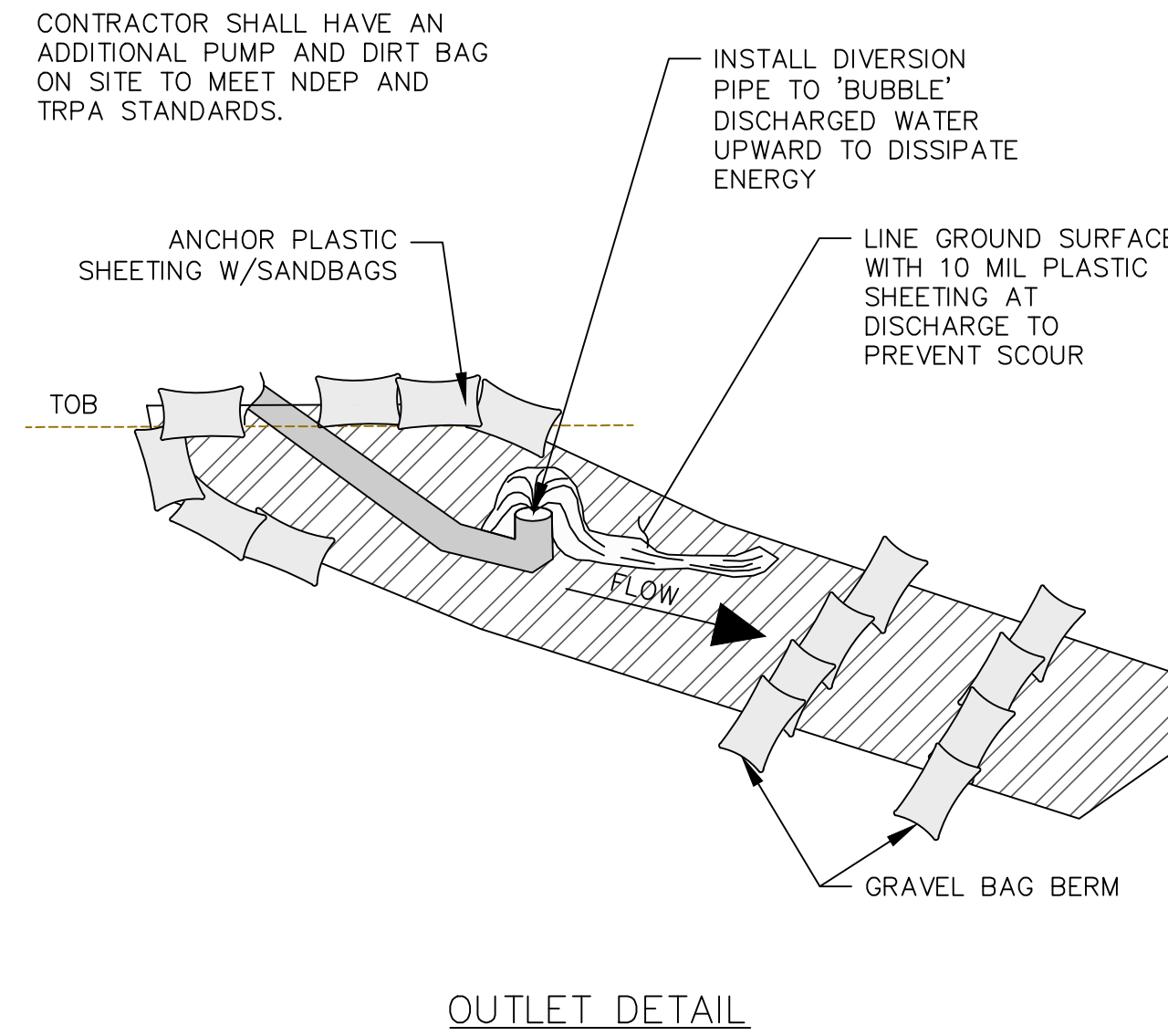
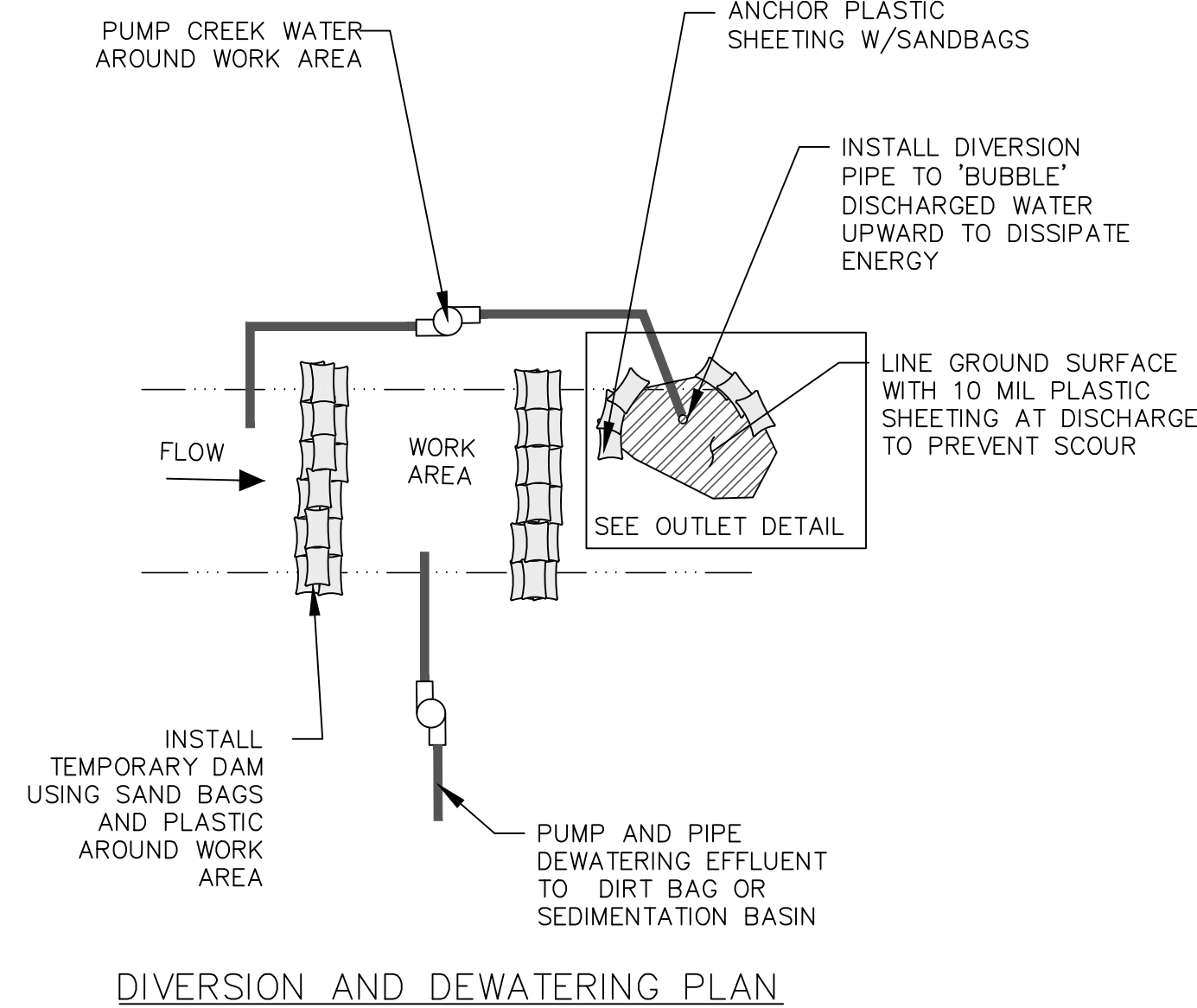
- ALL REQUIREMENTS FOR THE DOUGLAS COUNTY STORM DRAIN UTILITY ORDINANCE MUST BE MET.
- CLASS A AND CLASS E BACKFILL SHALL CONFORM TO SECTION 200 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. BEDDING AND BACKFILL SHALL BE MECHANICALLY COMPACTED IN CONFORMANCE WITH SECTION 305.10.
- PLACE WARNING TAPE 1 FOOT ABOVE STORM DRAIN PIPE. WARNING TAPE SHALL READ "CAUTION STORM DRAIN MAIN".
- CLASS A BACKFILL AS BEDDING MATERIAL PER ORANGE BOOK 200.03.03 COMPACT OR CONSOLIDATE TO PROVIDE PROPER SUPPORT OF PIPE
- PATCH WIDTH:
 - A) PATCHES WILL BE 4 FOOT MINIMUM, ANY DIRECTION.
 - B) IF EDGE OF PATCHING IS WITHIN 3 FEET OF EDGE OF PAVEMENT OR LIP OF GUTTER, REMOVE AND REPLACE AC PAVEMENT FROM PATCH TO THAT EDGE
 - C) PLACE SLURRY SEAL OR CHIP SEAL ON STREETS WITH EXISTING SLURRY OR CHIP SEAL
- SURFACE TOLERANCES, ASPHALT CONSTRUCTION MATERIALS, AND CONSTRUCTION TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS (ORANGE BOOK).
- ASPHALT CEMENT SHALL BE PG 64-28 NV UNLESS OTHERWISE APPROVED BY DOUGLAS COUNTY ENGINEERING. WHEN PG 64-28 NV ASPHALT CEMENT IS NOT USED, NEW ASPHALT CONCRETE SURFACE SHALL BE FOG SEALED.



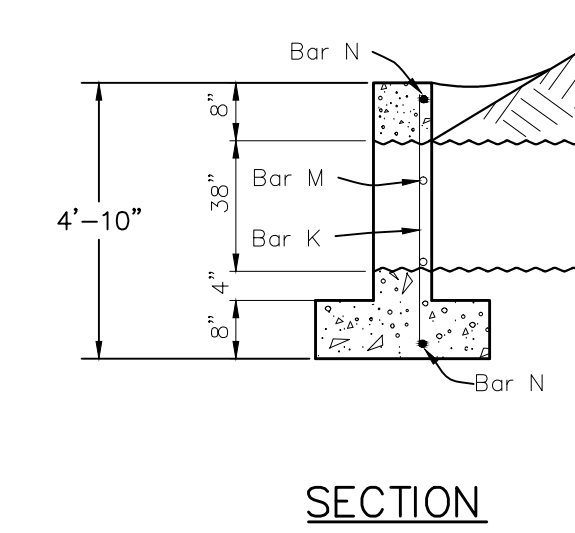
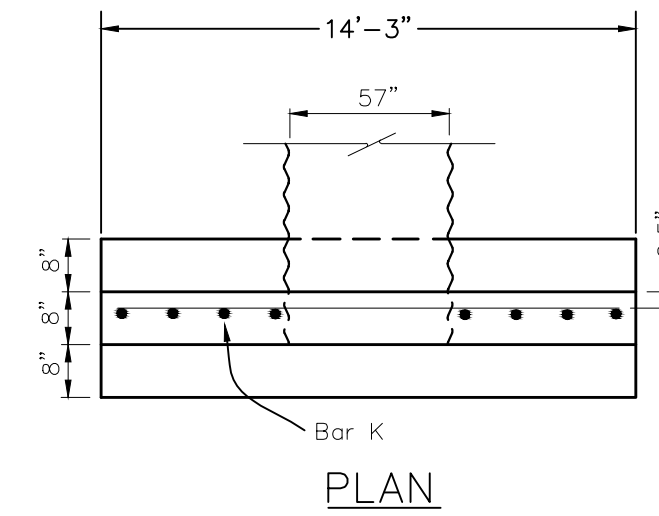
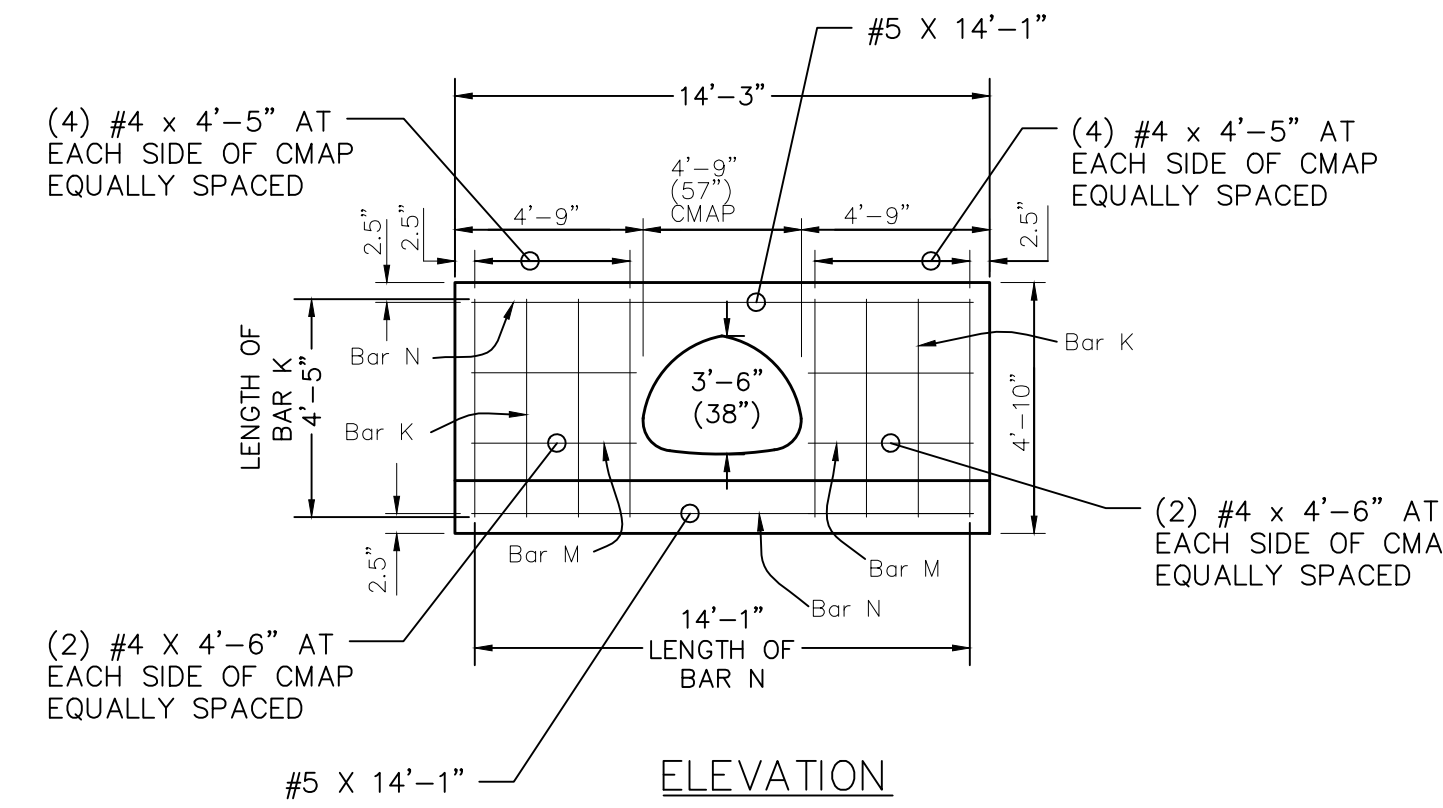
STORM DRAIN PIPE

90% DESIGN PLANS
NOT FOR CONSTRUCTION

90% DESIGN PLANS
NOT FOR CONSTRUCTION

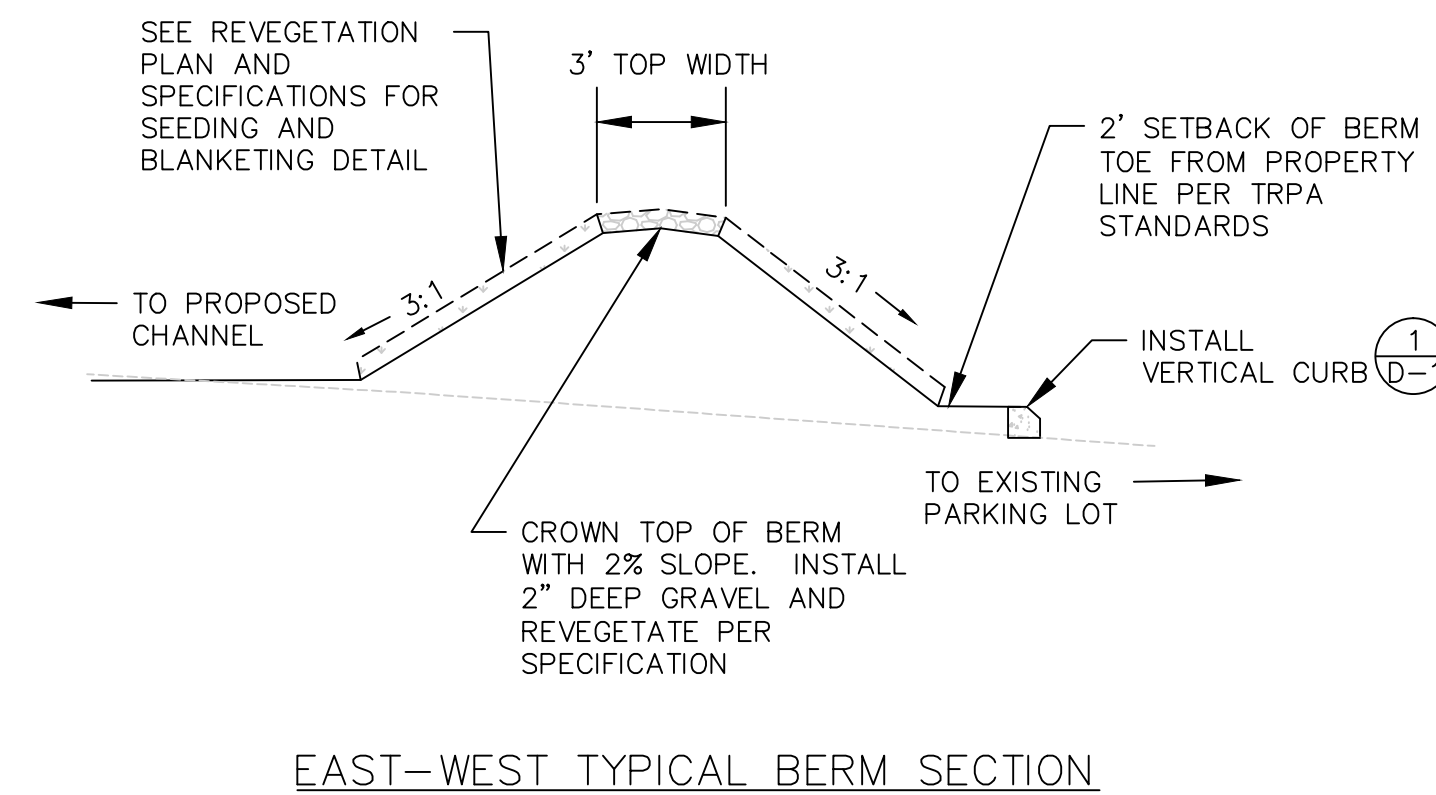
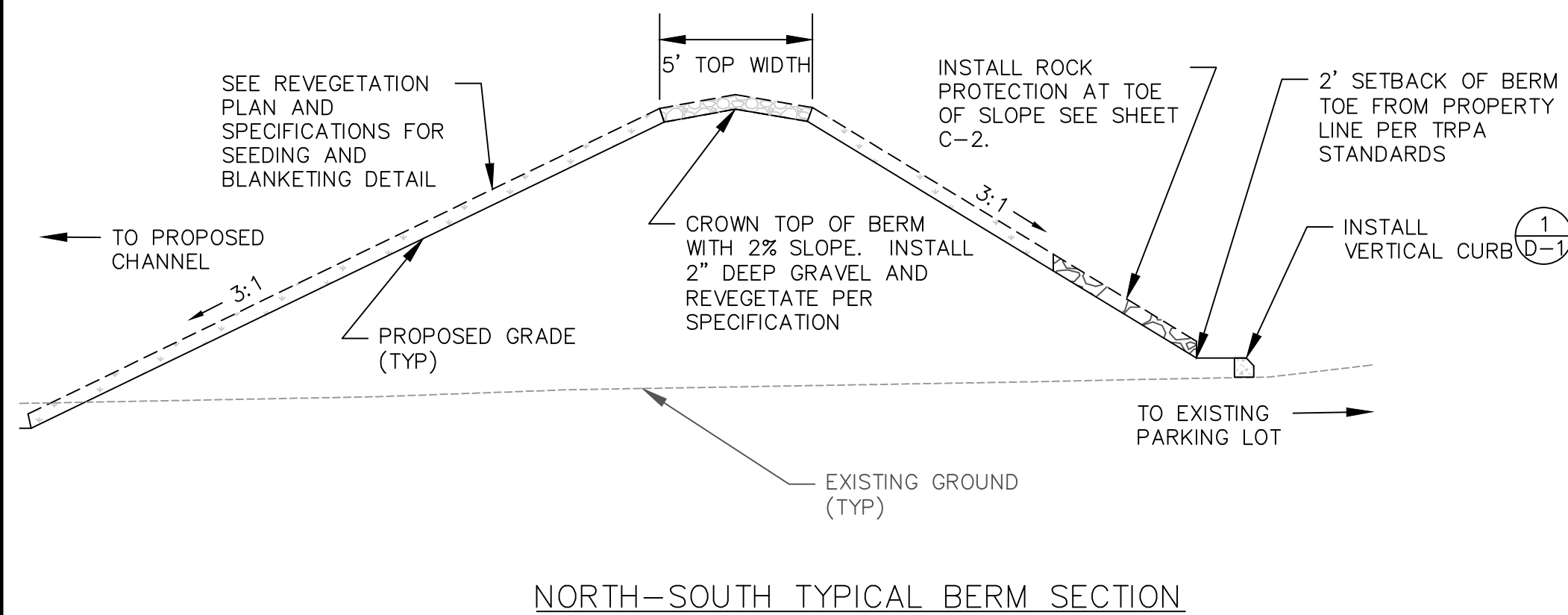


EXAMPLE DIVERSION DAM
SCALE: N.T.S. 1 D-4



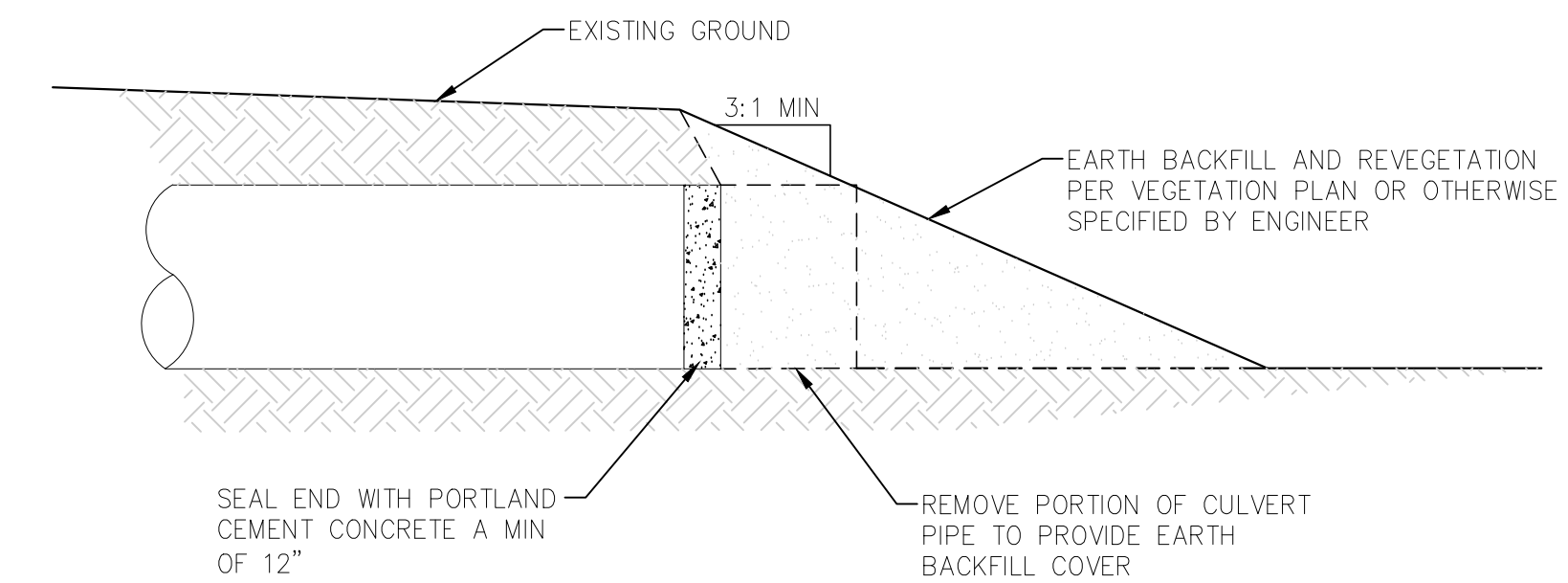
NDOT STANDARD HEADWALL
SCALE: N.T.S. 2 D-4

- NDOT STANDARD HEADWALL NOTES:
1. CONCRETE SHALL BE CLASS A OR AA.
 2. REINFORCING STEEL SHALL BE DEFORMED BARS WITH MAXIMUM SPACING OF 18" SET 2" CLEAR OF SURFACE OF CONCRETE EXCEPT AS NOTED. BAR ENDS SHALL BE KEPT 1" CLEAR OF SURFACE OF CONCRETE. REINFORCING BARS MAY BE CUT AND BENT IN FIELD.
 3. FOOTINGS SHOWN ARE OF MINIMUM DEPTH AND SHALL BE EXTENDED IF SOIL IS UNSUITABLE OR LIABLE TO SCOUR.



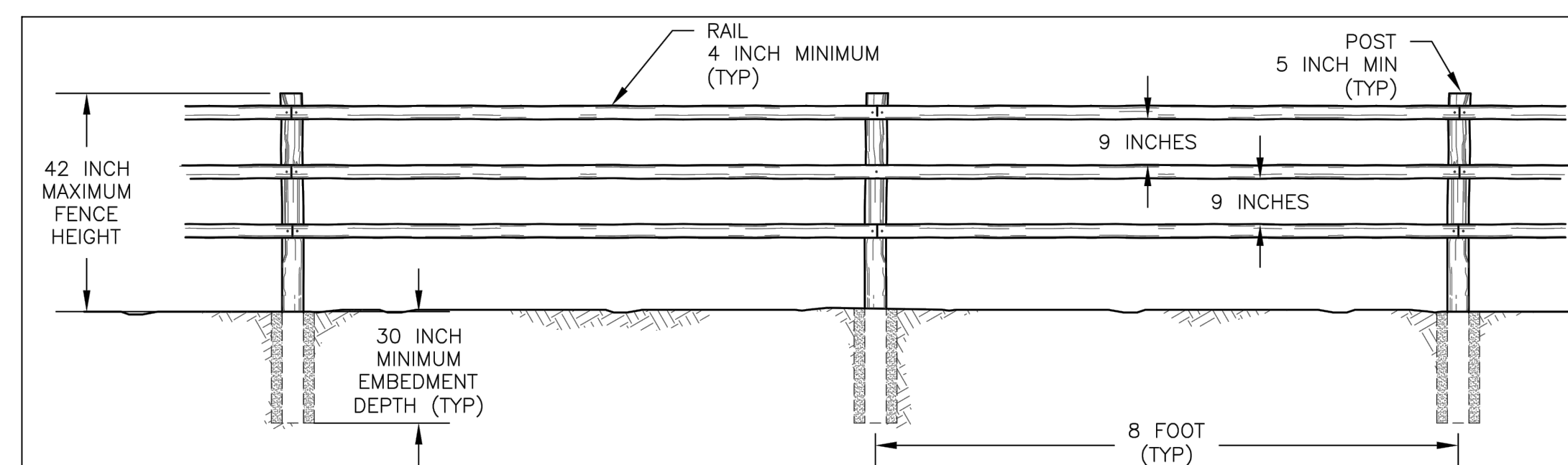
- BERM DETAIL NOTES:
1. BERM SIDE SLOPE TO BE 3:1 AND MAY BE STEEPER TO MEET EXISTING GRADE
 2. SEE REVEGETATION PLAN AND SPECIFICATIONS FOR BERM TREATMENTS.
 3. COMPACTION THROUGHOUT BERM SHALL BE 90% RELATIVE COMPACTION. SEE SPECIFICATIONS FOR PREPARATION AND GRADING INFORMATION.
 4. 5' BUFFER ZONE WILL BE MAINTAINED ON THE CHANNEL SIDE OF THE BERM. NO PLANTING OF WOODY OR DEEP ROOTED PLANTS OR BURIED STRUCTURES WILL BE ALLOWED IN THE BUFFER ZONE.
 5. 2' SETBACK WILL BE MAINTAINED FROM THE PROPERTY LINE TO THE TOE OF THE BERM PER TRPA STANDARDS

BERM DETAIL
SCALE: N.T.S. 3 D-4



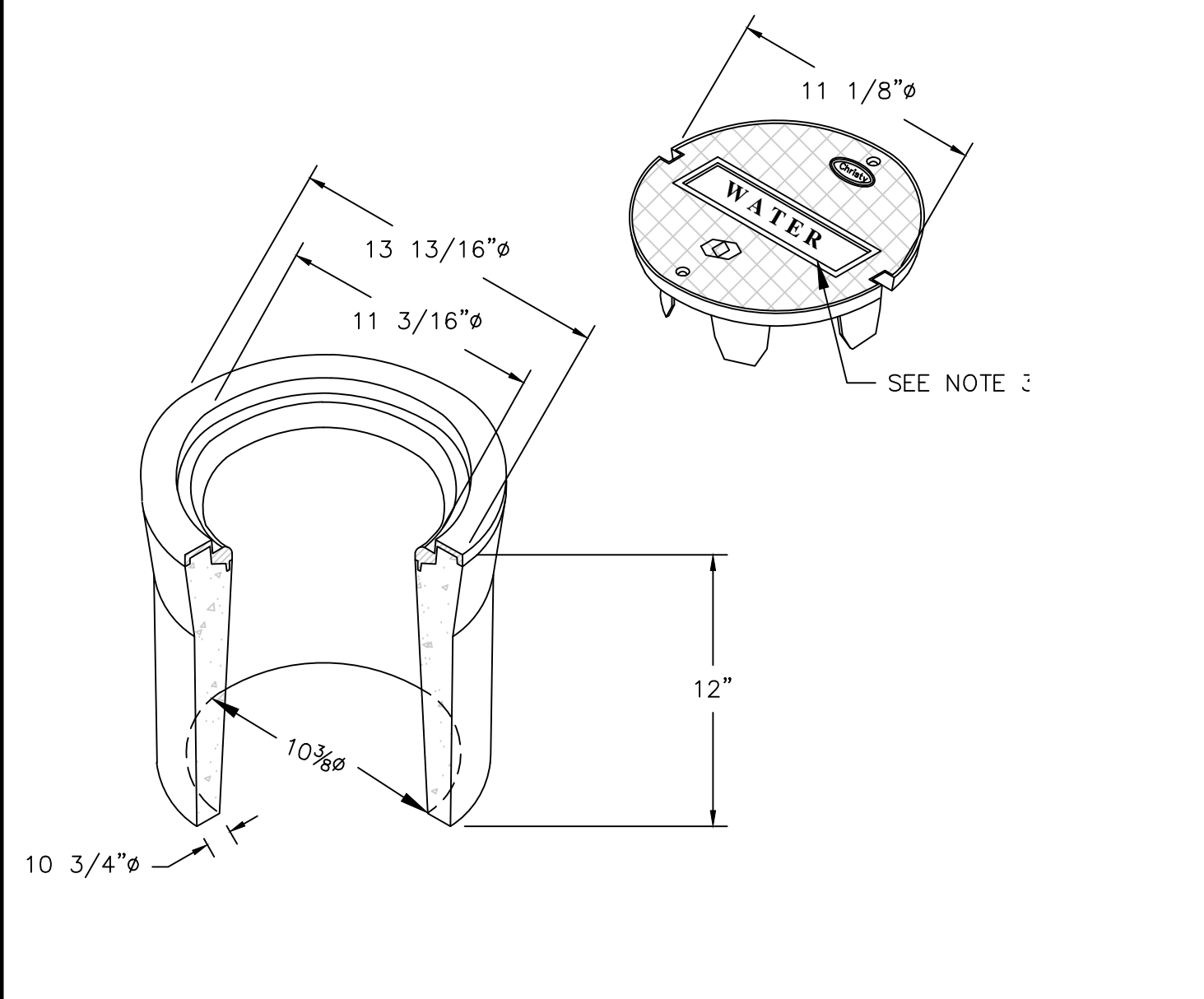
PIPE PLUG AND CAP
SCALE: N.T.S. 4 D-4

- FENCE NOTES:
1. FENCE LOCATIONS AS STAKED IN FIELD.
 2. PRE-DRILL HOLES FOR FASTENERS TO PREVENT SPLITTING OF BRACING OR POSTS.
 3. COMPACT AND BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENTS



POST AND RAIL FENCE
SCALE: N.T.S. 5 D-4

DESIGNED/DRAWN	MK/MK
CHECKED	MG
DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC

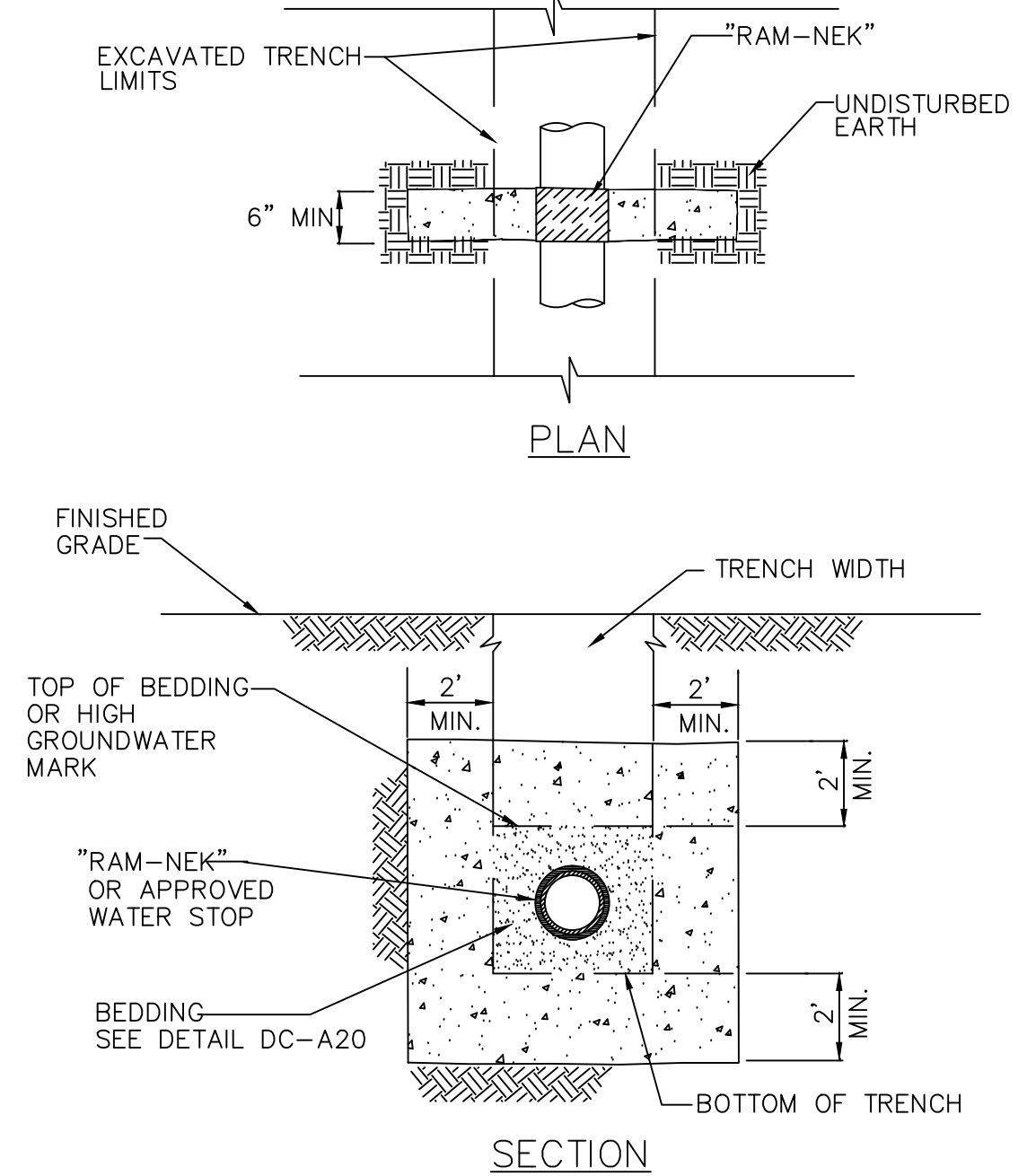


VALVE BOX NOTES:
 1. VALVE BOX MUST BE TRAFFIC RATED (CHRISTY G-5 BOX OR APPROVED EQUAL).
 2. MINIMUM OF 10" INSIDE DIAMETER.
 3. CAST IRON LID MARKED "WATER" FOR WATER LINE APPLICATIONS. CAST IRON LID MARKED "RECLAIMED WATER" OR "ROW" WHEN INSTALLED ON A RECLAIMED WATER MAIN. LID SHALL BE MARKED "SS FORCE MAIN" OR "SS FM" WHEN INSTALLED ON A SANITARY SEWER FORCE MAIN.
 4. RISER OF 6" MAX PVC EXTENDED IN VALVE CAN A MINIMUM OF 6".
 5. ALL NEW VALVE BOXES TO BE SET TO GRADE PER DETAIL 3/D-6.
 6. SET VALVE BOX AND ONE POINT OF TRIANGULAR LID TO POINT IN DIRECTION OF WATER MAIN.

VALVE BOX

SCALE: N.T.S.

1
D-5

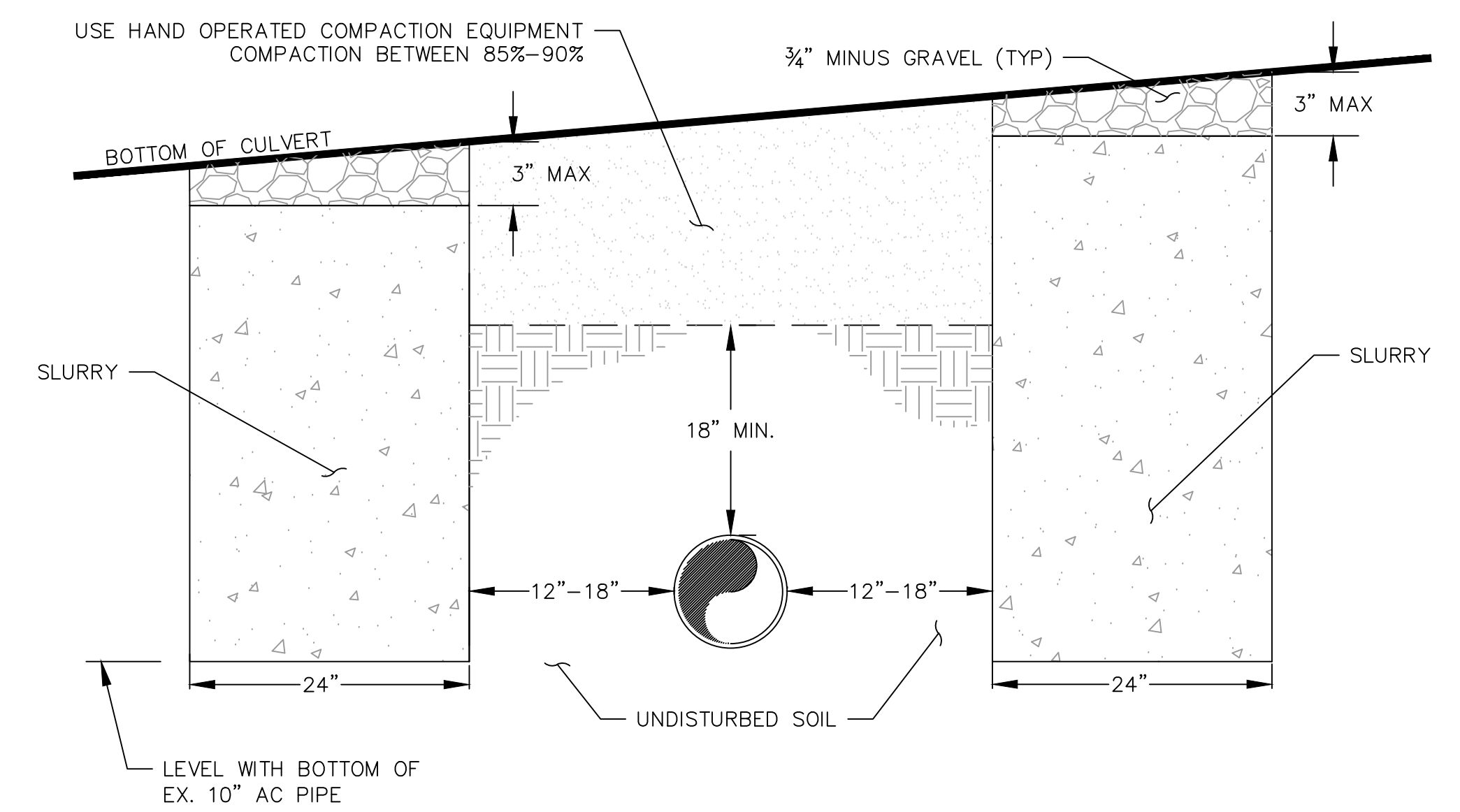


WATER STOP NOTES:
 1. WATER STOPS SHALL BE CONSTRUCTED AT 200' MAXIMUM SPACING IN GROUNDWATER CONDITIONS AND WHERE TYPE "C" BEDDING IS USED, AS DIRECTED BY THE ENGINEERING DIVISION.
 2. WRAP PIPE WITH "RAM-NEK" OR EQUIVALENT WHERE PIPE IS EXPOSED TO CONCRETE PRIOR TO POURING.
 3. USE LIGHT CONCRETE, TWO SACK SLURRY. IF DRYWALL IS USED FOR CONCRETE FORMS, IT MAY BE LEFT IN PLACE.

WATER STOP

SCALE: N.T.S.

2
D-5

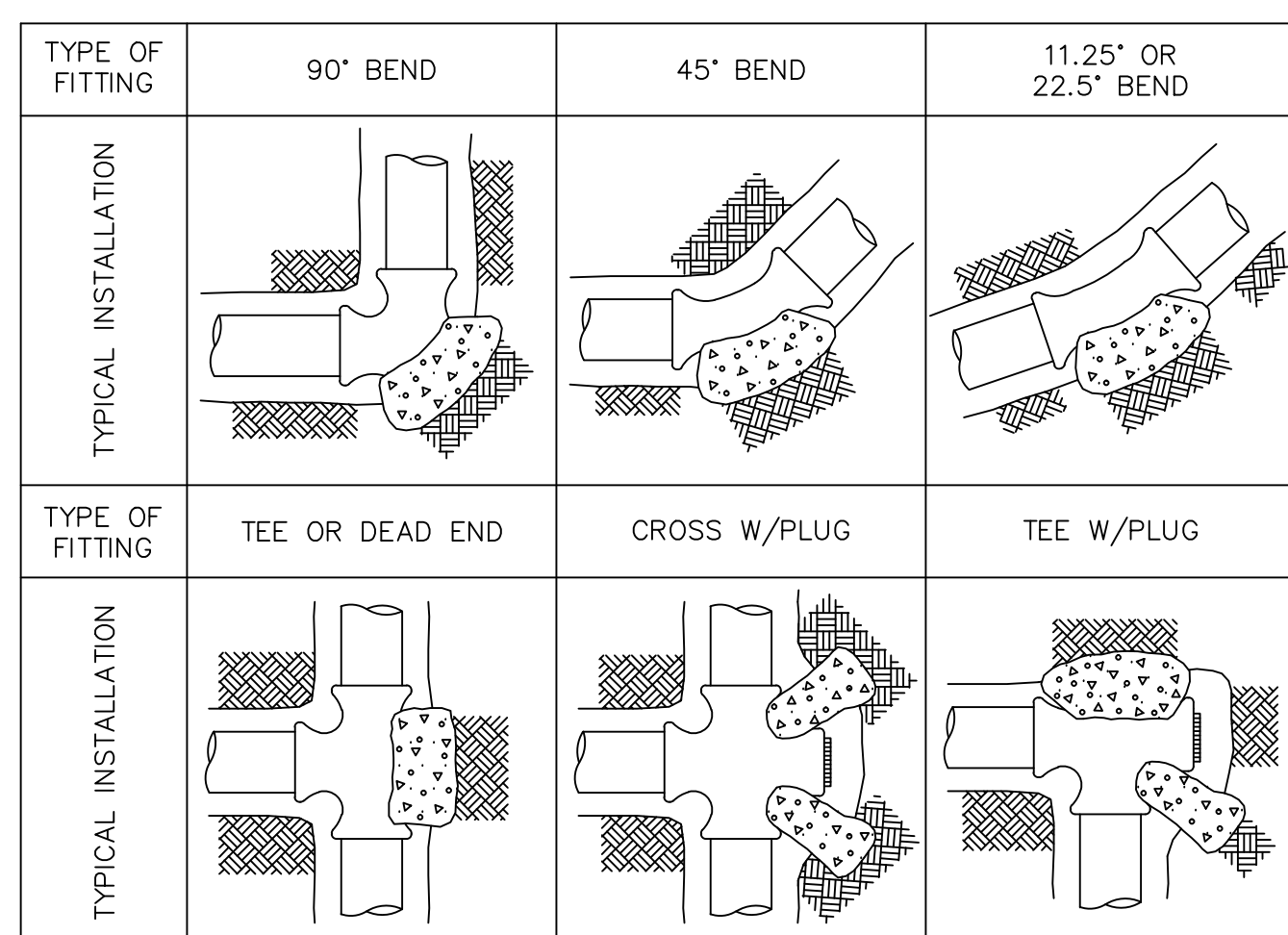


SEWER PROTECTION NOTES:
 1. PROVIDE 48 HOUR NOTIFICATION TO DCSID OF CONSTRUCTION SCHEDULE PRIOR TO COMMENCING CONSTRUCTION, AS WELL AS FOR ANY CHANGES TO THAT SCHEDULE, TO ALLOW DCSID THE OPPORTUNITY TO INSPECT EACH STEP OF CONSTRUCTION IN THE VICINITY OF THEIR INFRASTRUCTURE PRIOR TO IT BEING COVERED.
 2. LOCATE EXISTING PIPE AT EACH END OF SLURRY SUPPORTS BY EXPOSING IT USING A NON-FORCE METHOD SUCH AS A VACTOR TRUCK OR HYDRO-EXCAVATION.
 3. A PRE-CONSTRUCTION VIDEO WAS PERFORMED BY DCSID ON 10/7/15. ACCEPT THIS VIDEO AS PRE-PROJECT CONDITION OR PERFORM INDEPENDENT VIDEO PRIOR TO MOBILIZATION OF HEAVY EQUIPMENT.
 4. PERFORM POST-CONSTRUCTION VIDEO AFTER BACKFILL AND FINAL GRADING IS COMPLETE.
 5. REPAIR ANY DAMAGE TO DCSID INFRASTRUCTURE TO THE SATISFACTION OF DCSID AND IN ACCORDANCE WITH DCSID APPROVED METHODOLOGY.
 6. LIMIT USE OF VIBRATORY EQUIPMENT WITHIN 5' (VERTICAL AND HORIZONTAL) FROM EXISTING PIPE.
 7. IN THE EVENT OF A PIPE FAILURE DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESULTING COSTS INCLUDING BUT NOT LIMITED TO EMERGENCY CONTAINMENT, ENVIRONMENTAL CLEANUP, BYPASS PUMPING, REPAIR, FINES, AND FEES.
 8. DCSID SHALL BE NOTIFIED IMMEDIATELY OF ANY DAMAGE TO OR ISSUES WITH THEIR INFRASTRUCTURE.

SANITARY SEWER PROTECTION

SCALE: N.T.S.

3
D-5



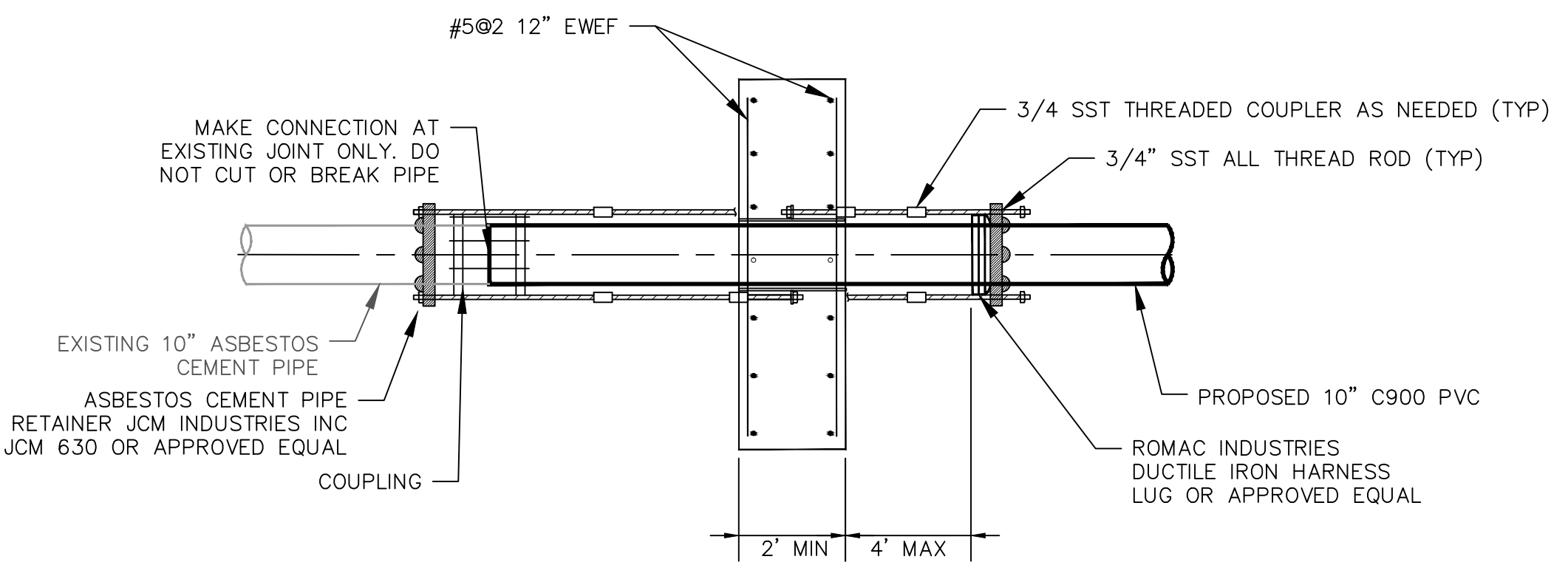
THRUST BLOCK BEARING AREA - SQUARE FEET						
TYPE OF FITTING	90° BEND	45° BEND	11.25° OR 22.5° BEND	TEE OR DEAD END	CROSS W/PLUG	TEE W/PLUG
4"	2	1	1	2	2	2
6"	5	3	2	4	5	5
8"	8	5	3	6	8	8
10"	13	7	4	9	13	13
12"	18	10	5	13	18	18
14"	25	13	7	17	25	25
16"	32	17	9	23	32	32

THRUST BLOCK NOTES:
 1. CONCRETE FOR THRUST BLOCKS SHALL CONFORM TO SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 2. THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED SOIL.
 3. JOINTS AND FACE OF PLUGS SHALL BE KEPT CLEAR OF CONCRETE.
 4. THRUST BLOCK BEARING AREAS ARE FOR A 150 PSI TEST PRESSURE WITH 2000 PSF BEARING CAPACITY, NOMINAL PIPE DIAMETER, AND A FACTOR OF SAFETY OF 1.5 INSTALLATIONS USING DIFFERENT TEST PRESSURES, AND/OR SOIL TYPES SHALL BE ADJUSTED BY THE DESIGN ENGINEER.

THRUST BLOCKS

SCALE: N.T.S.

4
D-5



EXISTING AC WATERLINE CONNECTION

SCALE: N.T.S.

5
D-5

90% DESIGN PLANS NOT FOR CONSTRUCTION

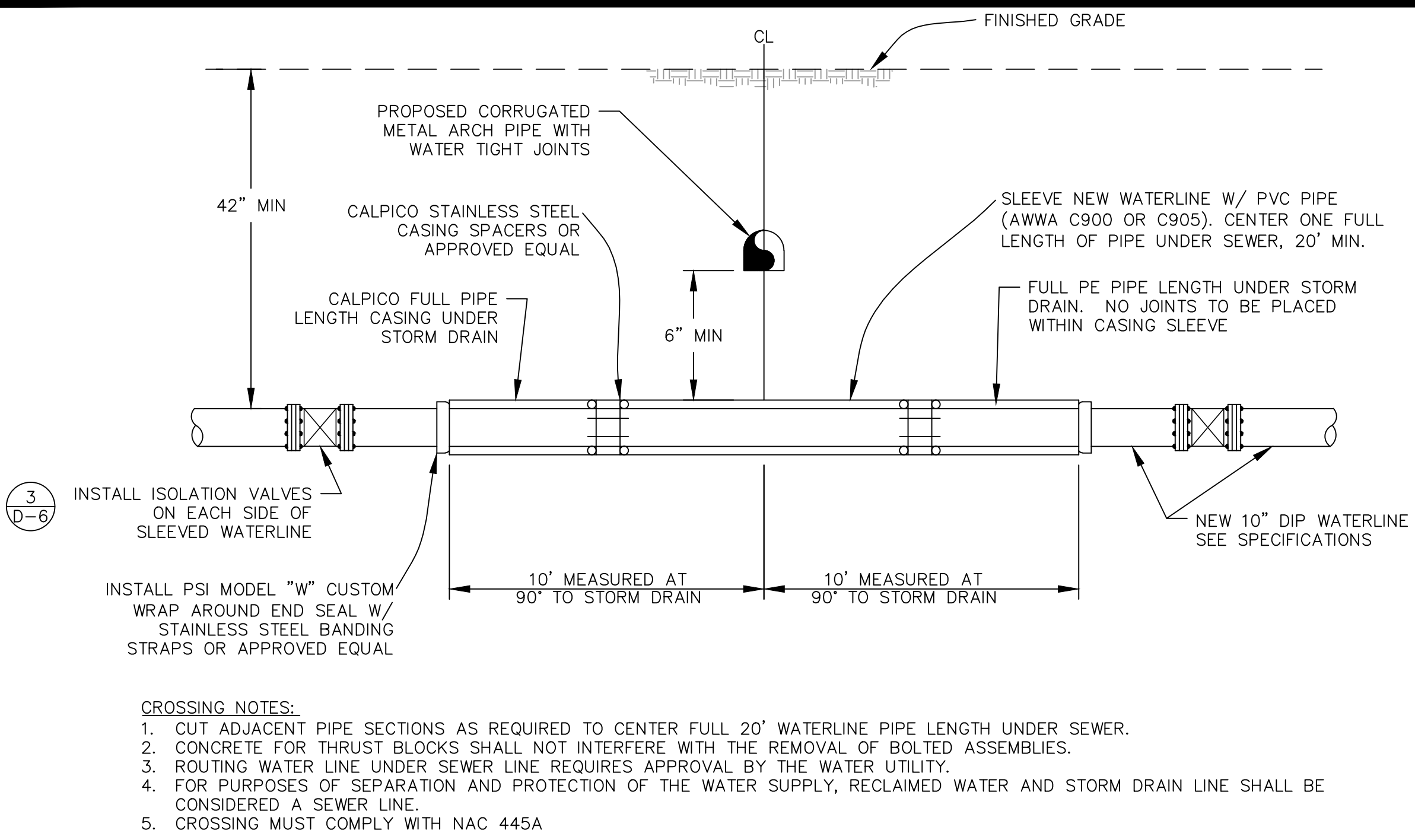


DETAILS
 BURKE CREEK HWY 50 CROSSING AND REALIGNMENT PROJECT
 PHASE 1

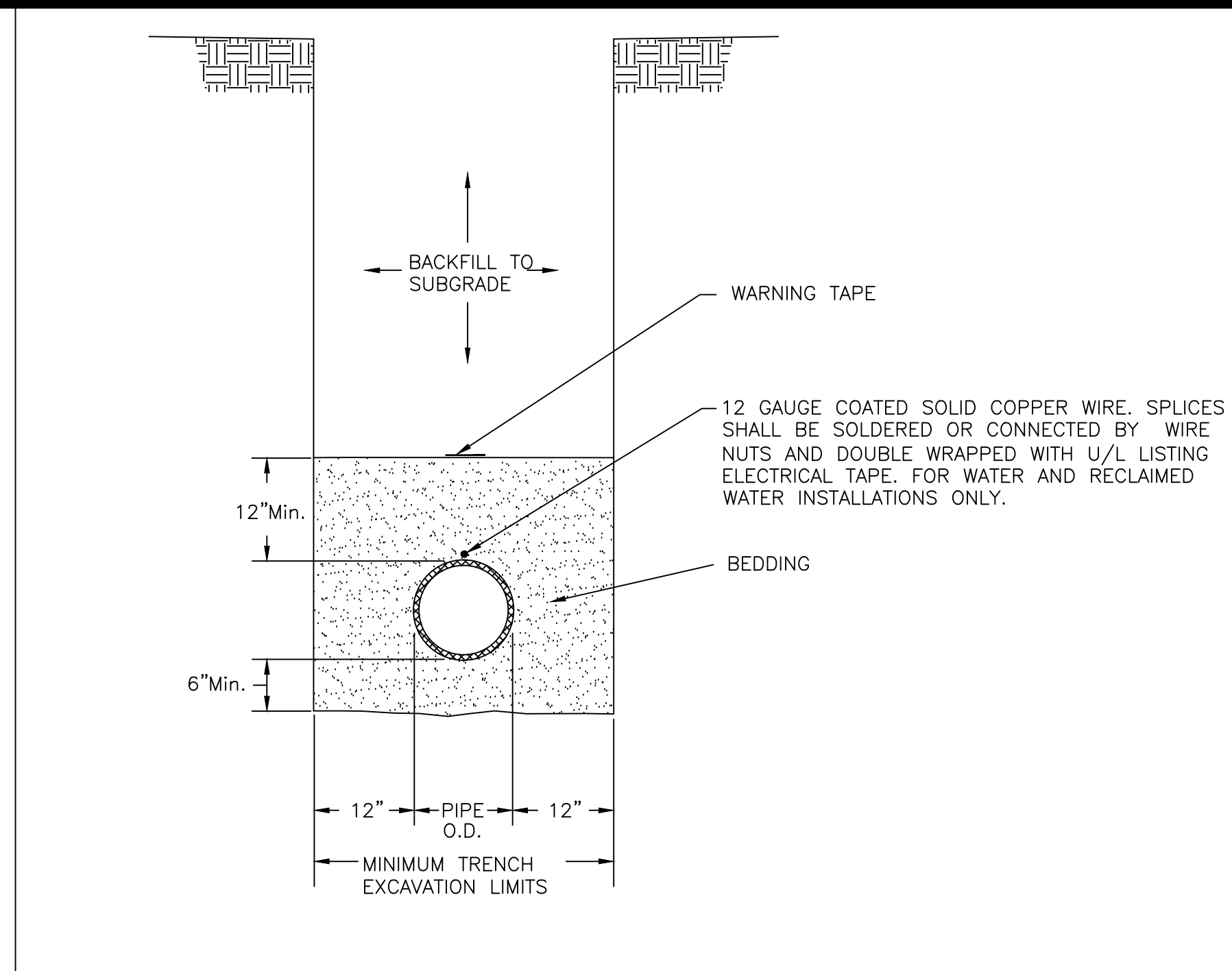
DESIGNED/DRAWN	MK/JB
CHECKED	MG
DATE	02/26/2016
SCALE	AS SHOWN
PROJECT	BCC

SHEET
D-5
 22 OF 25

DESIGNED/DRAWN	MK/JB
CHECKED	MG
DATE	02/26/2016
SCALE	AS SHOWN
PROJECT	BCC
SHEET	

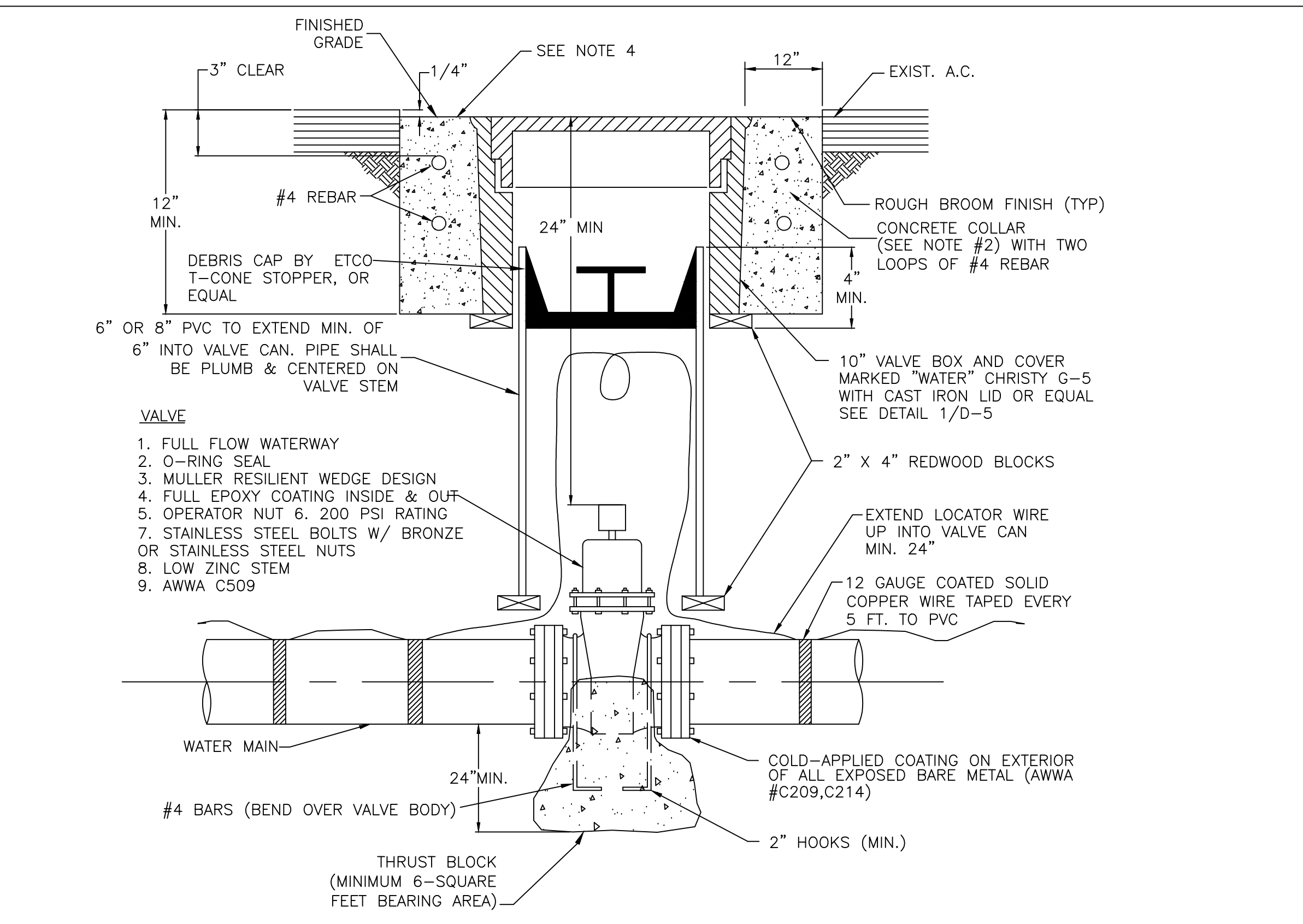


WATER MAIN CROSSING 1
 SCALE: N.T.S. D-6

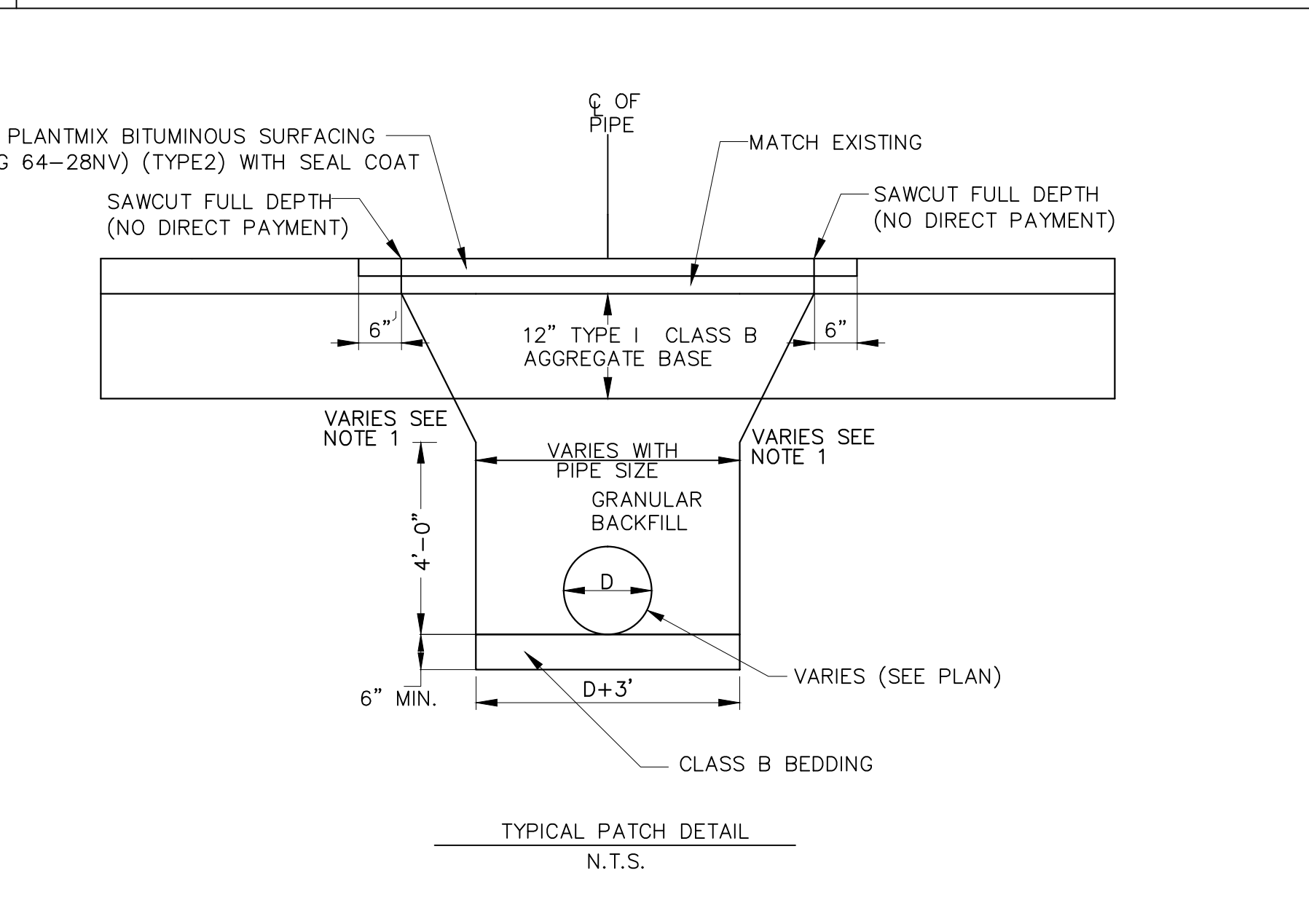


WATER LINE TRENCH EXCAVATION AND BACKFILL 2
 SCALE: N.T.S. D-6

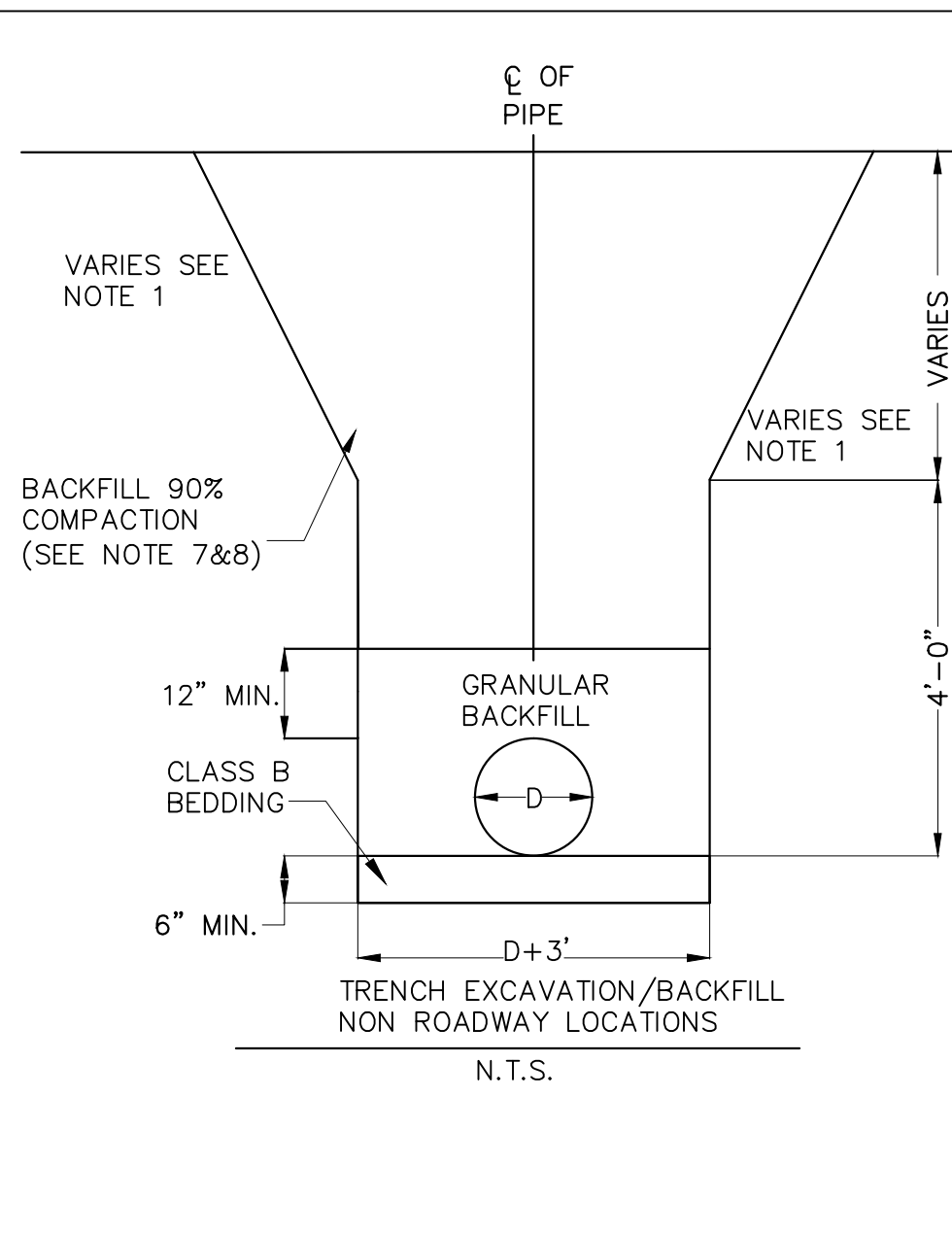
- WATER TRENCH NOTES:**
- BACKFILL SHALL MEET THE REQUIREMENTS FOR CLASS "E" BACKFILL AS SHOWN IN SUBSECTION 200.03.06 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OR AS SPECIFIED BY THE ENGINEERING DIVISION. MATERIAL SHALL BE PLACED IN LIFT THICKNESSES AND MECHANICALLY COMPACTED IN ACCORDANCE WITH SECTION 305 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - BEDDING SHALL MEET THE REQUIREMENTS FOR CLASS "A" BACKFILL AS SHOWN IN SUBSECTION 200.03.02 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OR AS SPECIFIED BY THE ENGINEERING DIVISION. MATERIAL SHALL BE PLACED IN LIFT THICKNESSES AND MECHANICALLY COMPACTED IN ACCORDANCE WITH SECTION 305 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - BEDDING FOR GRAVITY SEWER LINES MAY BE CLASS "C" BACKFILL.
 - CLASS "C" BACKFILL WITH FILTER FABRIC MAY BE USED TO SUPPORT BEDDING IN HIGH GROUND- WATER OR UNSTABLE SOIL CONDITIONS WITH THE APPROVAL OF THE UTILITY DEPARTMENT.
 - FOR TRENCHES IN ROADWAY SECTION, SEE STREET CUT REPAIR DETAIL DC A25.
 - SHORING OR SLOPED CUT SLOPES MAY BE NECESSARY. ALL EXCAVATIONS SHALL CONFORM TO THE MOST RECENT OSHA REQUIREMENTS.
 - PLACE WARNING TAPE 1 FT. ABOVE WATER, AND RECLAIMED WATER PIPE.
 - WATER STOPS SHALL BE USED IN HIGH GROUND- WATER CONDITIONS PER DETAIL DC A07.



ISOLATION VALVE 3
 SCALE: N.T.S. D-6

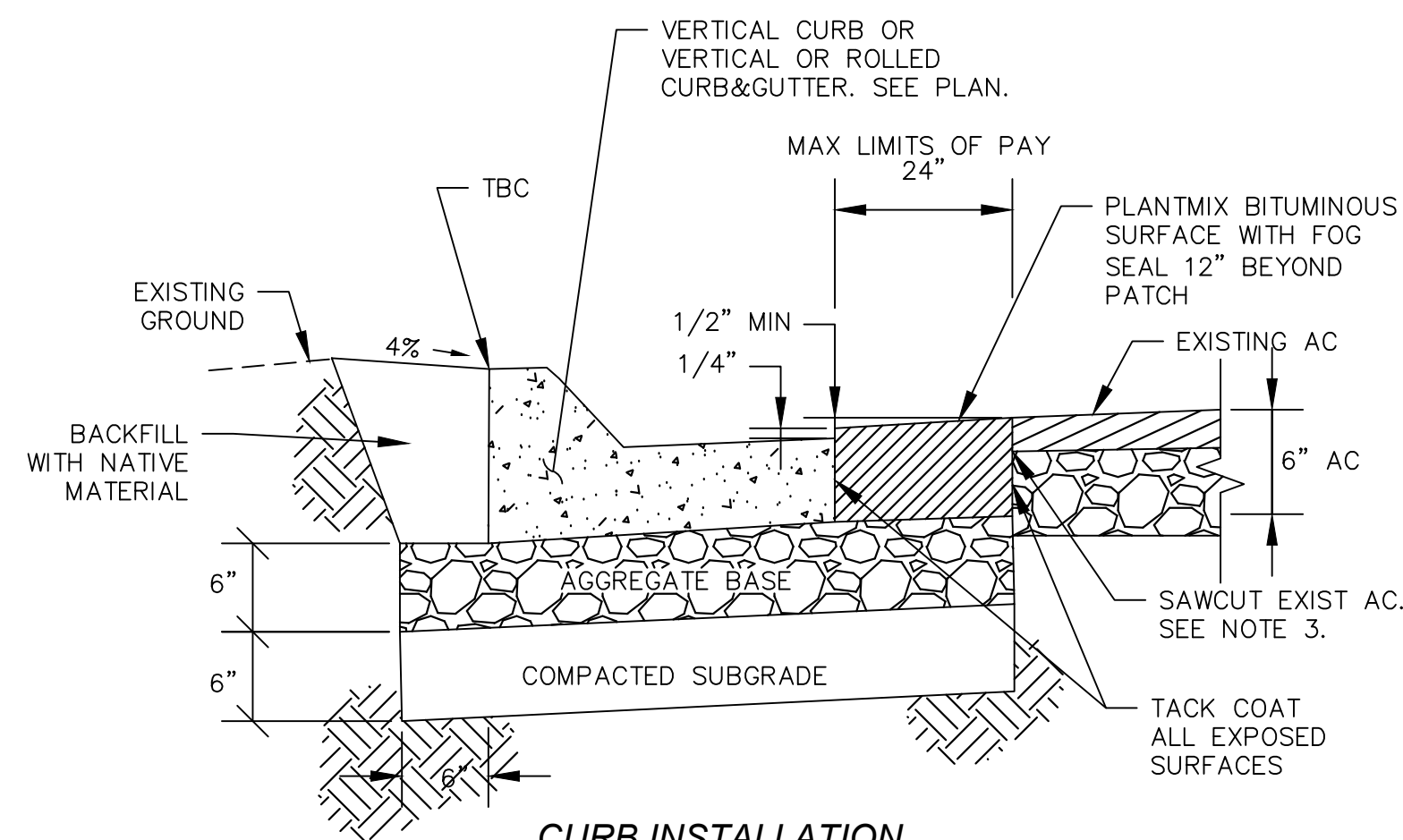


CMAP CROSSING TRENCH EXCAVATION AND BACKFILL 4
 SCALE: N.T.S. D-6

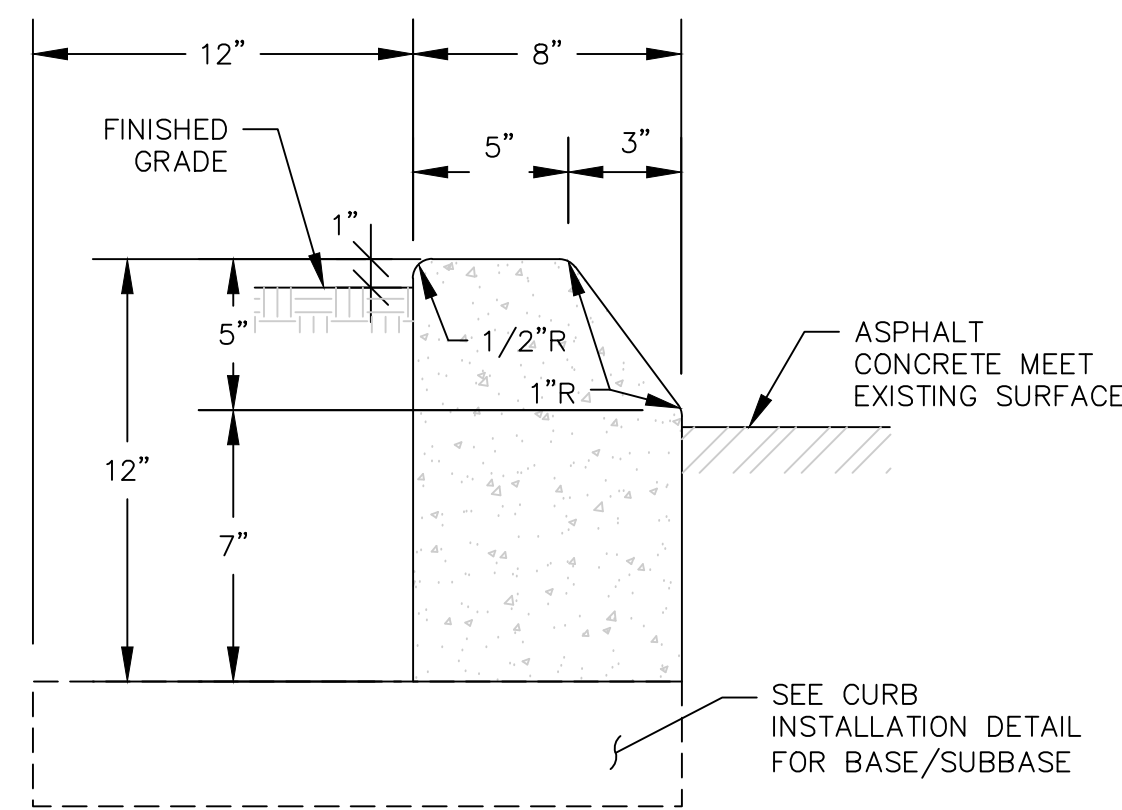


**TRENCH EXCAVATION/BACKFILL
NON ROADWAY LOCATIONS**
 N.T.S.

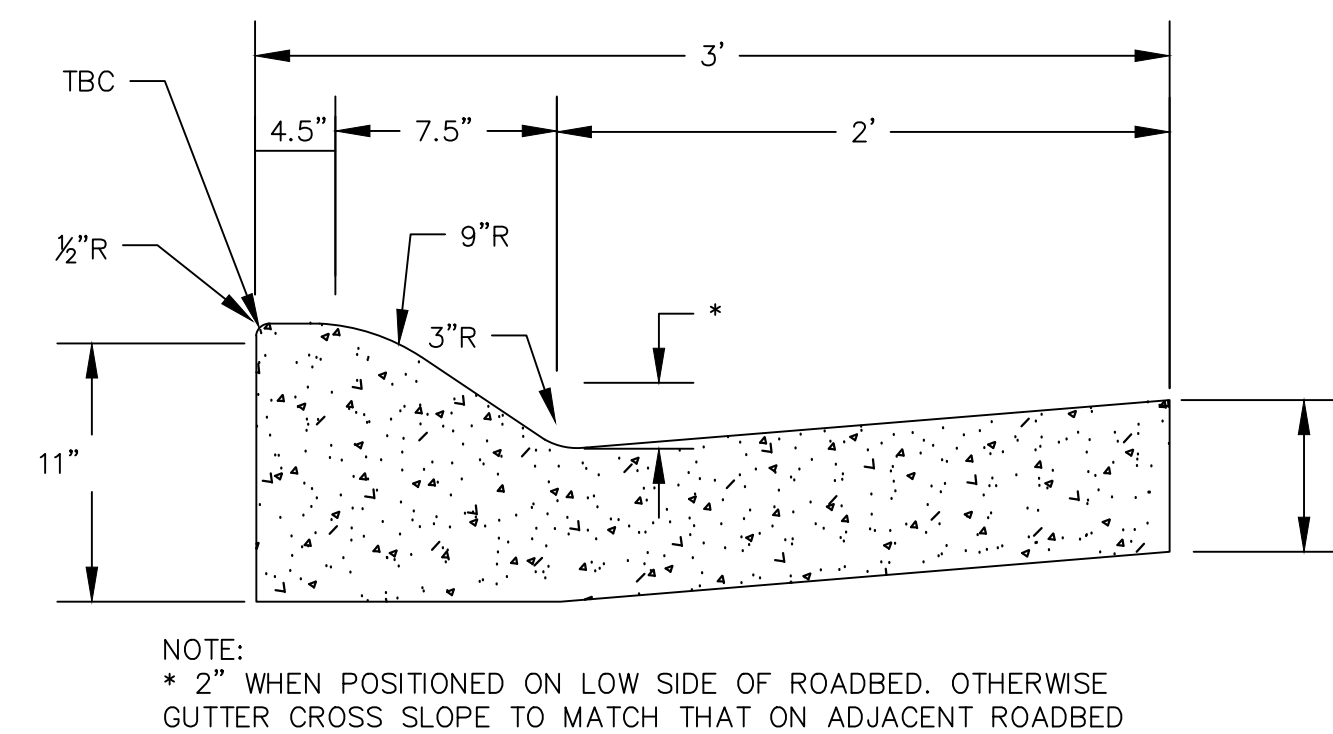
90% DESIGN PLANS
NOT FOR CONSTRUCTION



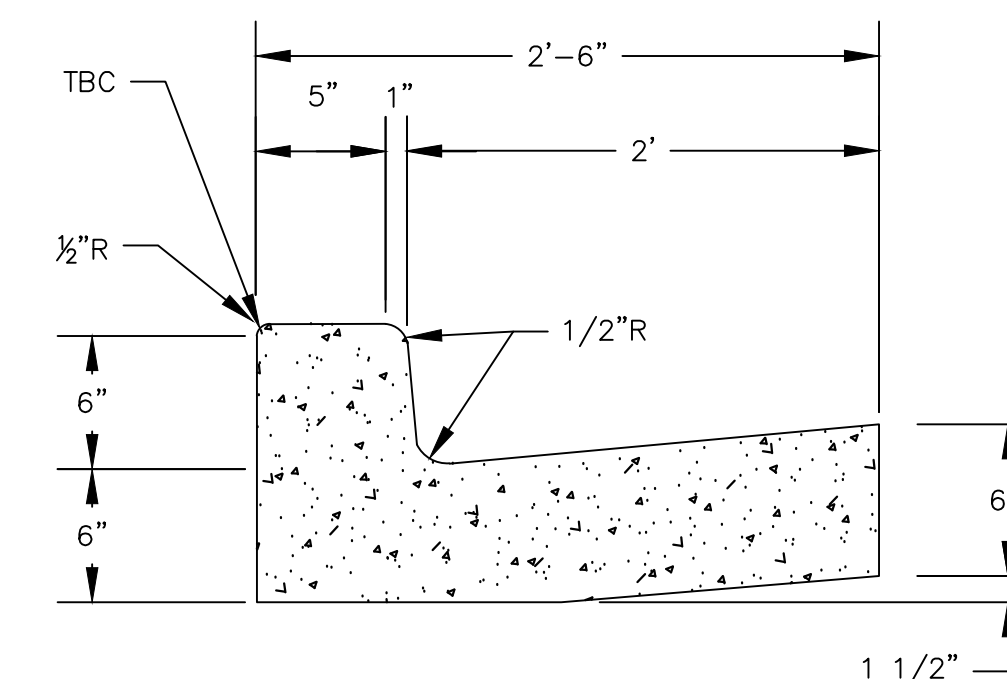
CURB INSTALLATION



VERTICAL CURB



ROLLED CURB AND GUTTER (NDOT TYPE 6)



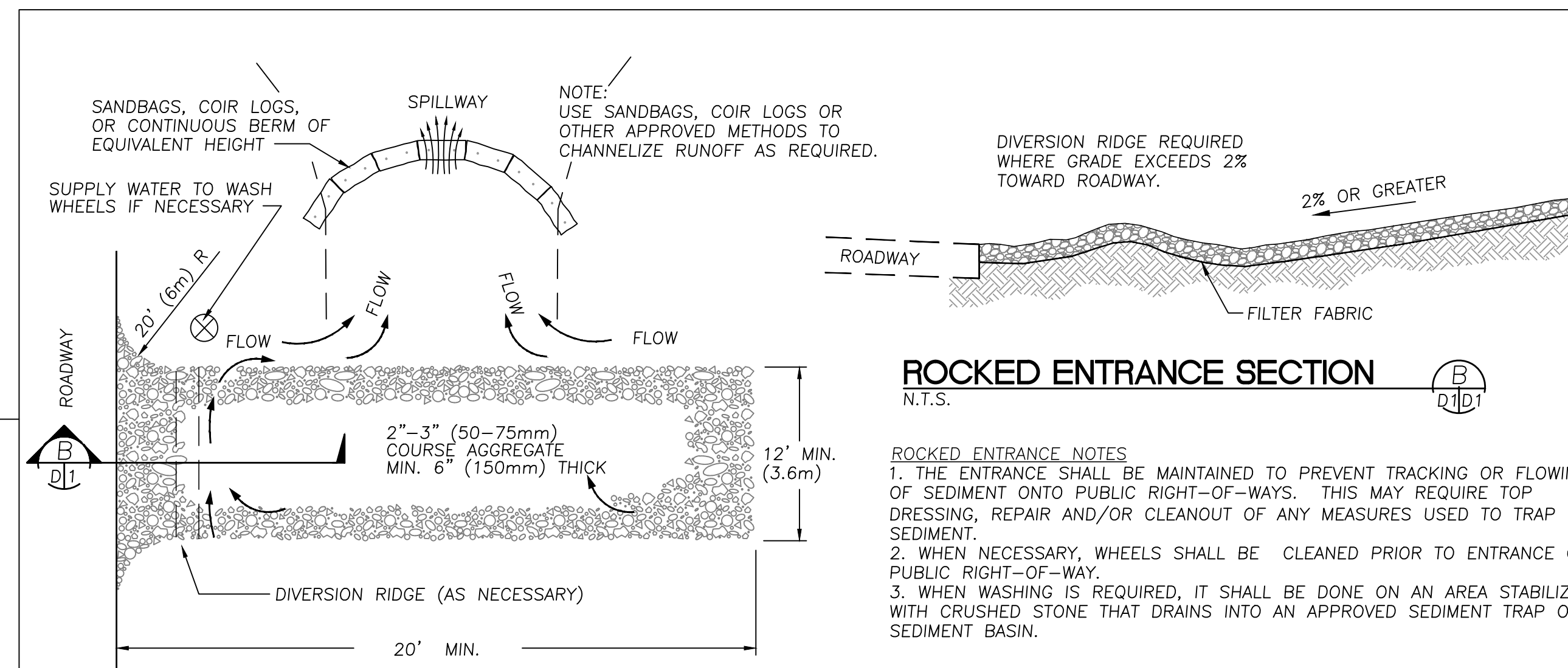
VERTICAL CURB AND GUTTER (NDOT TYPE 1)

- CURB NOTES:**
- CURB TYPE PER PLAN.
 - SAW CUT ALONG STRAIGHT LINES. NO SAW CUTS WITHIN WHEEL PATH.
 - SURFACE TOLERANCES FOR AC PAVEMENT REPAIR SHALL CONFORM TO THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (ORANGE BOOK).
 - ASPHALT CONCRETE MATERIALS AND TESTING SHALL CONFORM TO THE CURRENT EDITION OF THE ORANGE BOOK.
 - AGGREGATE BASE SHALL BE TYPE 2 CLASS B COMPACTED TO 95% MDD.
 - COMPACTED SUBGRADE SHALL BE CLASS A OR CLASS E (NATIVE) BACKFILL COMPACTED TO 90% MDD.
 - TACKCOAT ALL EXPOSED SURFACES SS-1h, 0.07-0.13 GAL/SY.
 - PORTLAND CEMENT SHALL CONFORM TO SECTION 337.10.01.01 OF THE STANDARD SPECIFICATIONS (ORANGE BOOK) FOR CONCRETE EXPOSED TO FREEZE-THAW ENVIRONMENTS.
 - WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED EVERY 5 FEET. THE JOINTS SHALL PENETRATE TO A DEPTH OF 2 INCHES AND BE CONSTRUCTED IN CONFORMANCE WITH SECTION 312.09.02 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS DESIGNATED IN SECTION 312.09.01A OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

CONCRETE CURB/CURB AND GUTTER

SCALE: NTS

1
D-7



ROCKED ENTRANCE SECTION

N.T.S.

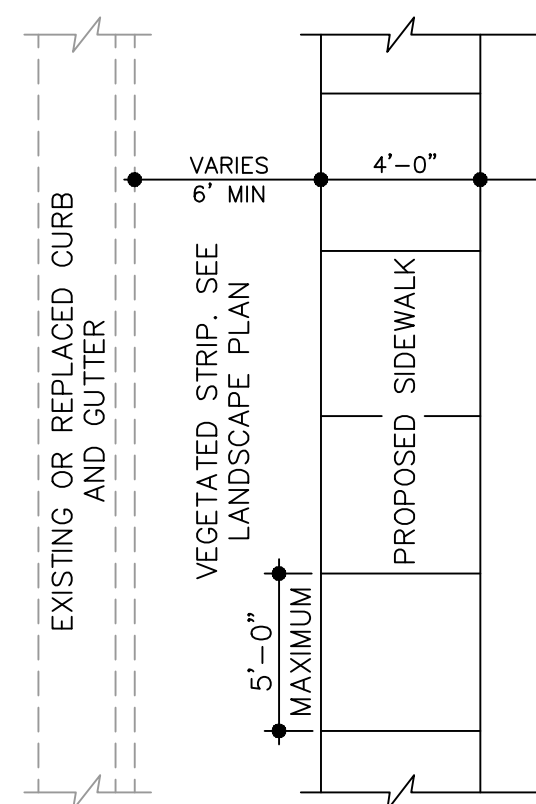
B
D1D1

- ROCKED ENTRANCE NOTES:**
- THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

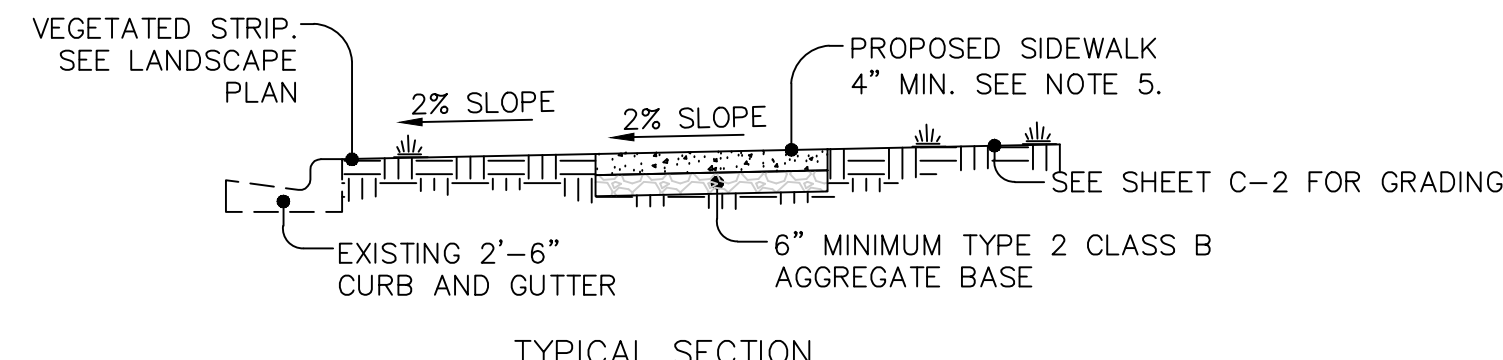
GRAVEL CONSTRUCTION ENTRANCE

NOT TO SCALE

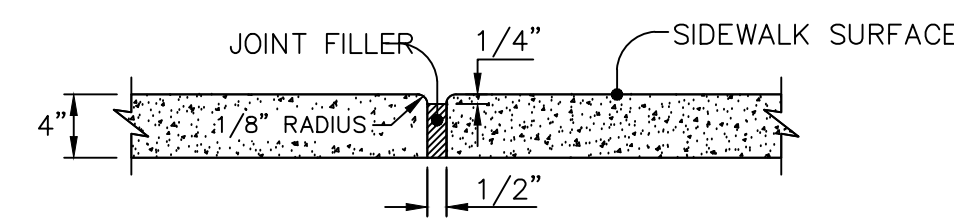
4
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PLAN VIEW



TYPICAL SECTION



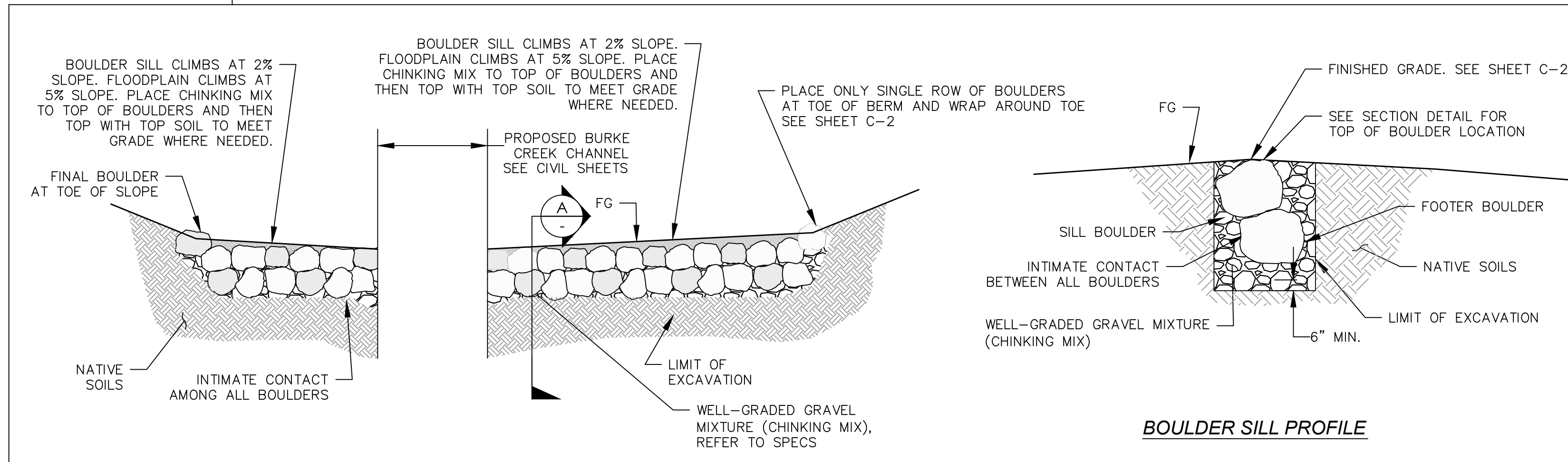
TRANSVERSE EXPANSION JOINT

- NOTES:**
- ALL CONCRETE SHALL BE REMOVED AT EXISTING JOINTS. SEE SECTION 311.10.07 OF THE STANDARD SPECIFICATIONS "CONSTRUCTION JOINTS" FOR POURING CONCRETE NEXT TO EXISTING CONCRETE.
 - PORTLAND CEMENT CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR CONCRETE EXPOSED TO FREEZE-THAW ENVIRONMENTS.
 - WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED EVERY 5 FEET. THE JOINTS SHALL PENETRATE TO A DEPTH OF 2 INCHES AND BE CONSTRUCTED IN CONFORMANCE WITH SECTION 312.09.02 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS DESIGNATED IN SECTION 312.09.01A OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - TYPE 2, CLASS B AGGREGATE BASE SHALL CONFORM TO SECTION 20 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND SHALL BE MECHANICALLY COMPACTED IN CONFORMANCE WITH SECTION 308.05 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - CONCRETE SIDEWALKS ADJACENT TO DRIVEWAYS SHALL HAVE A MINIMUM THICKNESS OF 6".
 - NO OBSTRUCTIONS, SUCH AS UTILITY POLES, SIGNAL POLES AND CONTROLS, WATER METER BOXES, PULL BOXES, ETC. ARE ALLOWED WITHIN SIDEWALKS.

SIDEWALK

SCALE: NTS

2
D-7



BOULDER SILL SECTION

- BOULDER SILL NOTES:**
- IF BEDROCK ENCOUNTERED DURING EXCAVATION, NOTIFY ENGINEER IMMEDIATELY. BOULDER SILL WILL BE CONSTRUCTED AROUND BEDROCK WITH BEDROCK TAKING PLACE OF SOME BOULDERS.

BOULDER SILL

SCALE: NTS

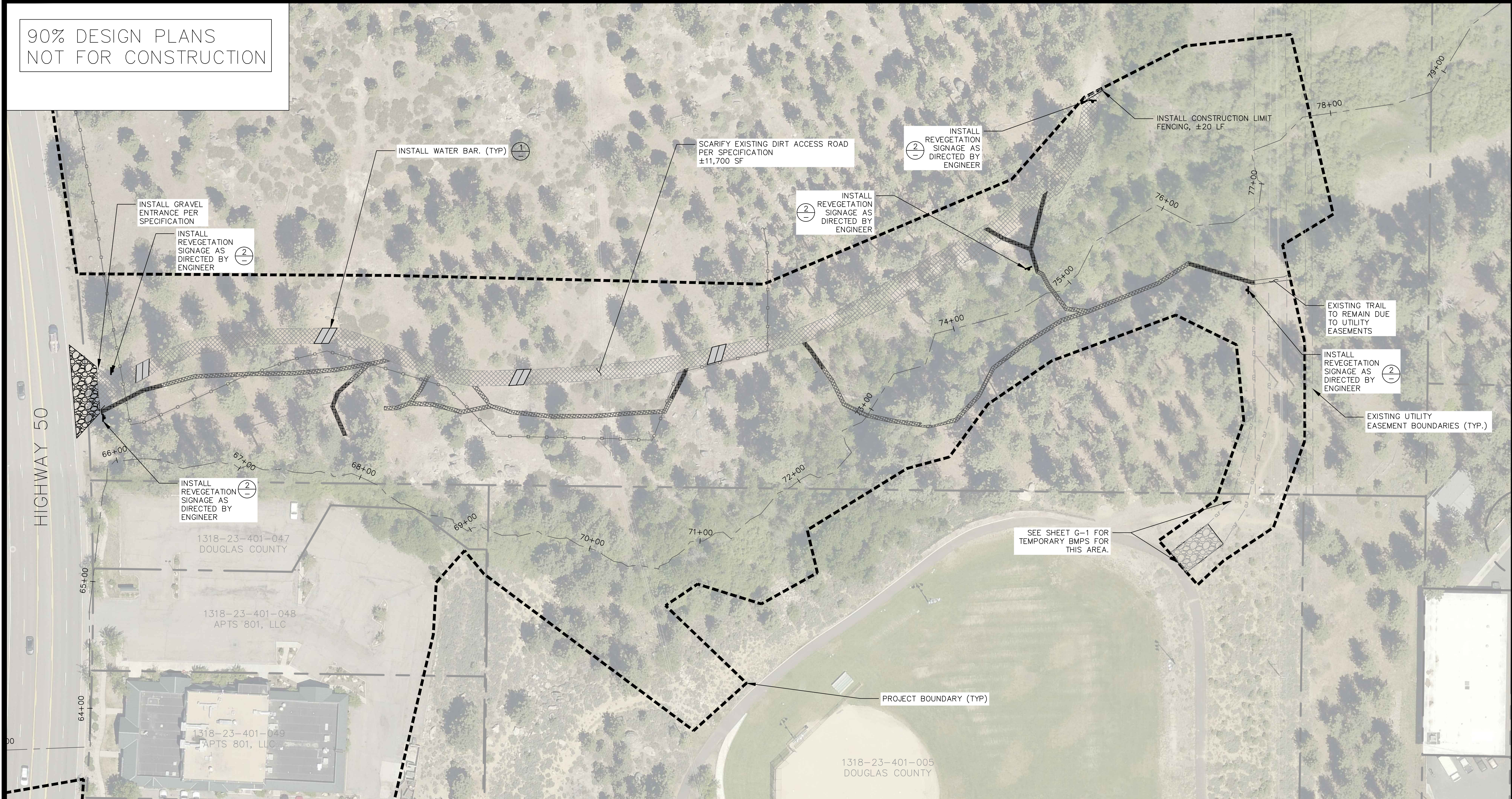
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BOULDER SILL PROFILE

90% DESIGN PLANS
NOT FOR CONSTRUCTION

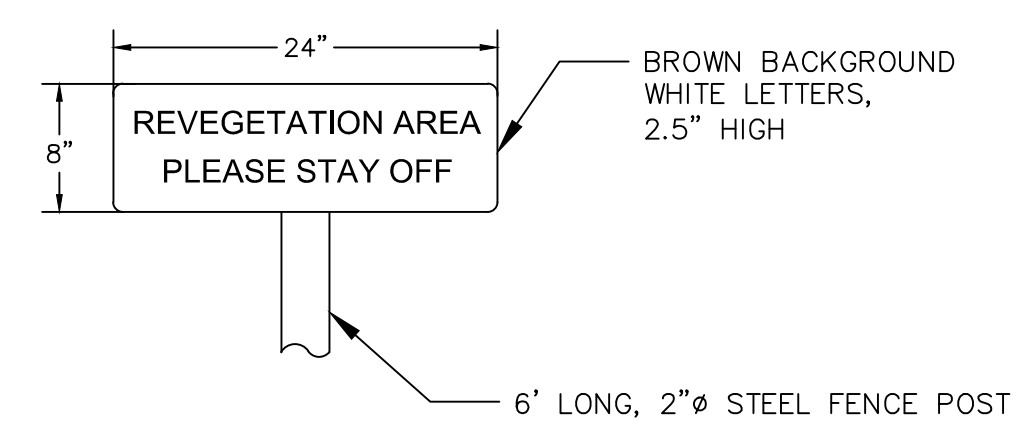
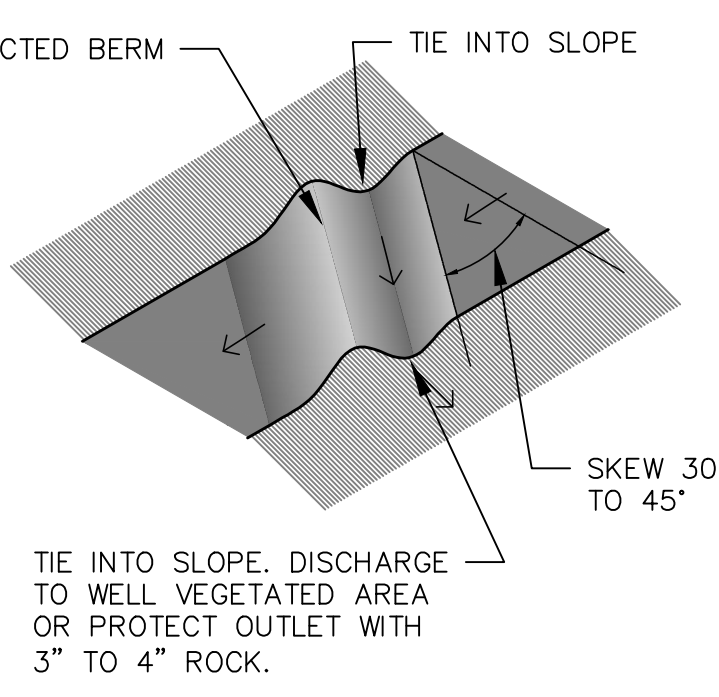
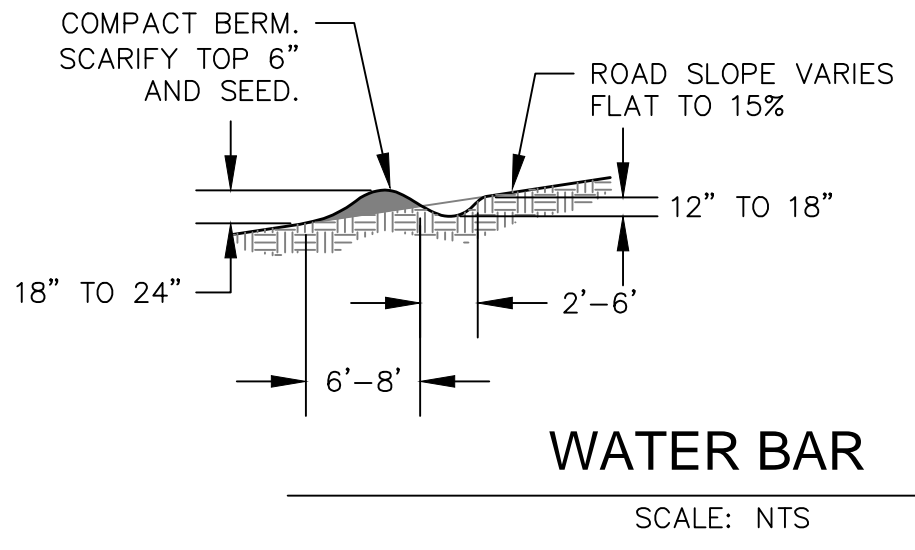
DESIGNED/DRAWN	MK/MK
CHECKED	MG
DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC

90% DESIGN PLANS
NOT FOR CONSTRUCTION



BID ALTERNATE - SIERRA COLINA WORK
BURKE CREEK HWY 50 CROSSING AND
REALIGNMENT PROJECT

- NOTES:
1. WATERBARS SHALL RUN THE ENTIRE WIDTH OF THE ROAD. ROAD IS APPROXIMATELY 12' WIDE.
 2. ABOVE GRADE BAR MAY BE BUILT LARGER THAN TROUGH IF ADDITIONAL ONSITE MATERIAL IS AVAILABLE.
 3. ADJUST LOCATIONS OF PROPOSED WATER BARS IN THE FIELD UNDER THE DIRECTION OF THE ENGINEER TO ENSURE STABLE FREE FLOWING OUTLET AND ADEQUATE MATERIAL.

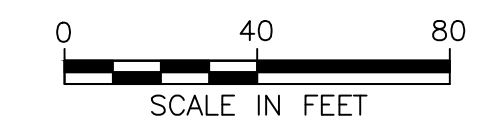


REVEGETATION SIGNAGE ②
SCALE: NTS

- NOTES:
1. REMOVE ALL TRASH FROM ENTIRE AREA.

LEGEND

- SCARIFY AND SEED ROAD TREATMENT
- WOODY SLASH TRAIL TREATMENT
- HAND RAKE TRAIL TREATMENT
- INSTALL REVEGETATION SIGNAGE



DESIGNED/DRAWN	MK/MK
CHECKED	MG
DATE	03/11/2016
SCALE	AS SHOWN
PROJECT	BCC