

NEVADA TAHOE CONSERVATION DISTRICT BURKE CREEK HIGHWAY 50 CROSSING AND REALIGNMENT PROJECT - PHASE 1 IN THE COUNTY OF DOUGLAS EIP # 01.02.03.0001



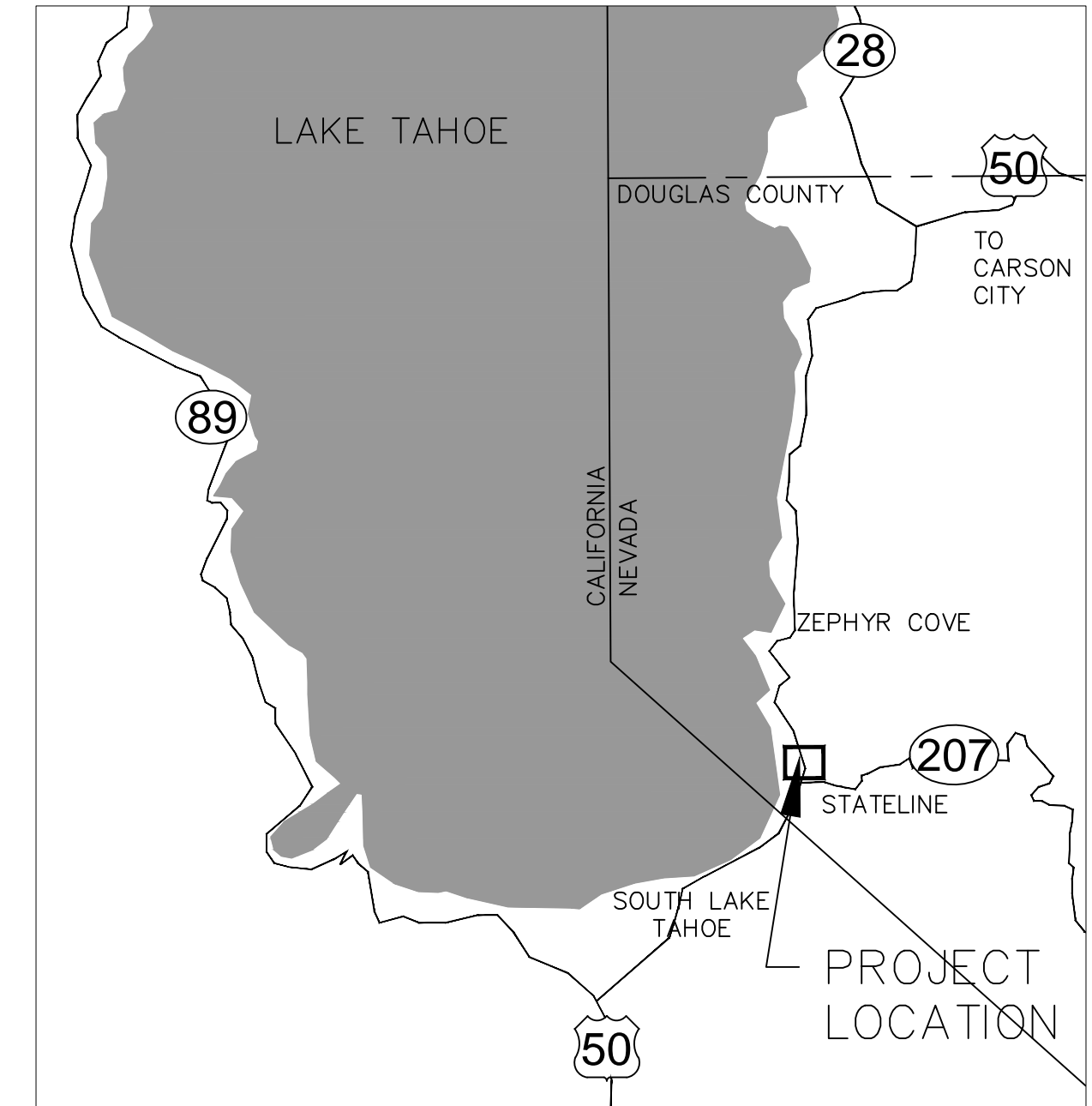
TITLE
BURKE CREEK HWY 50 CROSSING AND
REALIGNMENT PROJECT
PHASE 1

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PLAN
SCALE: 1" = 150'



VICINITY MAP
NOT TO SCALE

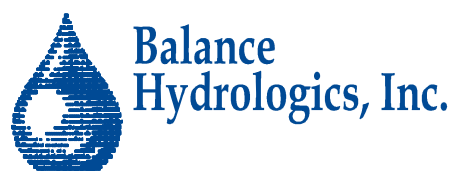
ENGINEER:

Meghan C. Kelly

5/27/16

MEGHAN C. KELLY, P.E.
REGISTERED CIVIL ENGINEER
STATE OF NEVADA, NO. 20851
NEVADA TAHOE CONSERVATION DISTRICT
400 DORLA CT.
ZEPHYR COVE, NV 89448
(775) 586-1610

DATE

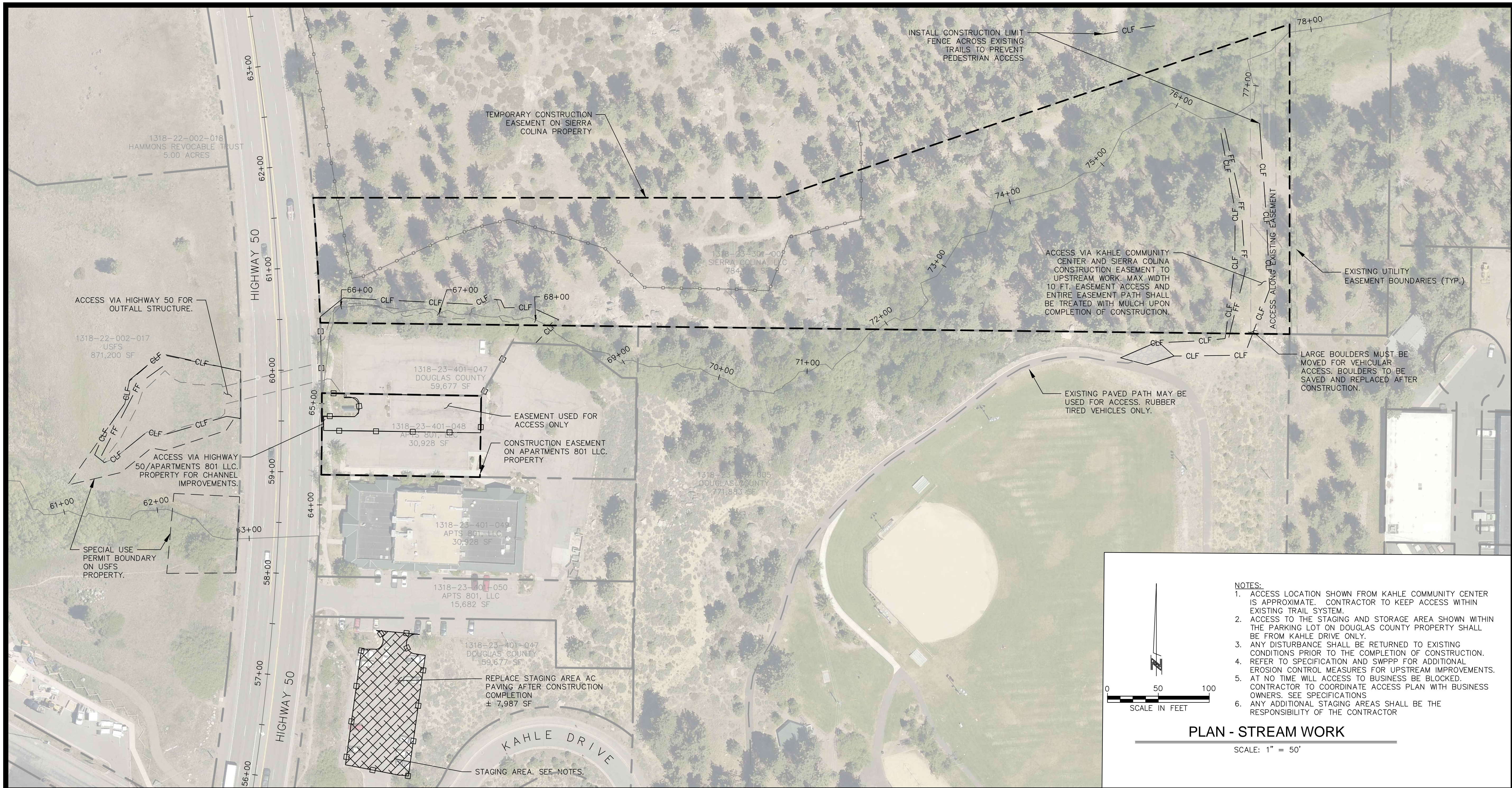


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SHEET	



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NOTES:

1. ACCESS LOCATION SHOWN FROM KAHLER COMMUNITY CENTER IS APPROXIMATE. CONTRACTOR TO KEEP ACCESS WITHIN EXISTING TRAIL SYSTEM.
2. ACCESS TO THE STAGING AND STORAGE AREA SHOWN WITHIN THE PARKING LOT ON DOUGLAS COUNTY PROPERTY SHALL BE FROM KAHLER DRIVE ONLY.
3. ANY DISTURBANCE SHALL BE RETURNED TO EXISTING CONDITIONS PRIOR TO THE COMPLETION OF CONSTRUCTION.
4. REFER TO SPECIFICATION AND SWPPP FOR ADDITIONAL EROSION CONTROL MEASURES FOR UPSTREAM IMPROVEMENTS.
5. AT NO TIME WILL ACCESS TO BUSINESS BE BLOCKED. CONTRACTOR TO COORDINATE ACCESS PLAN WITH BUSINESS OWNERS. SEE SPECIFICATIONS.
6. ANY ADDITIONAL STAGING AREAS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PLAN - STREAM WORK
SCALE: 1" = 50'

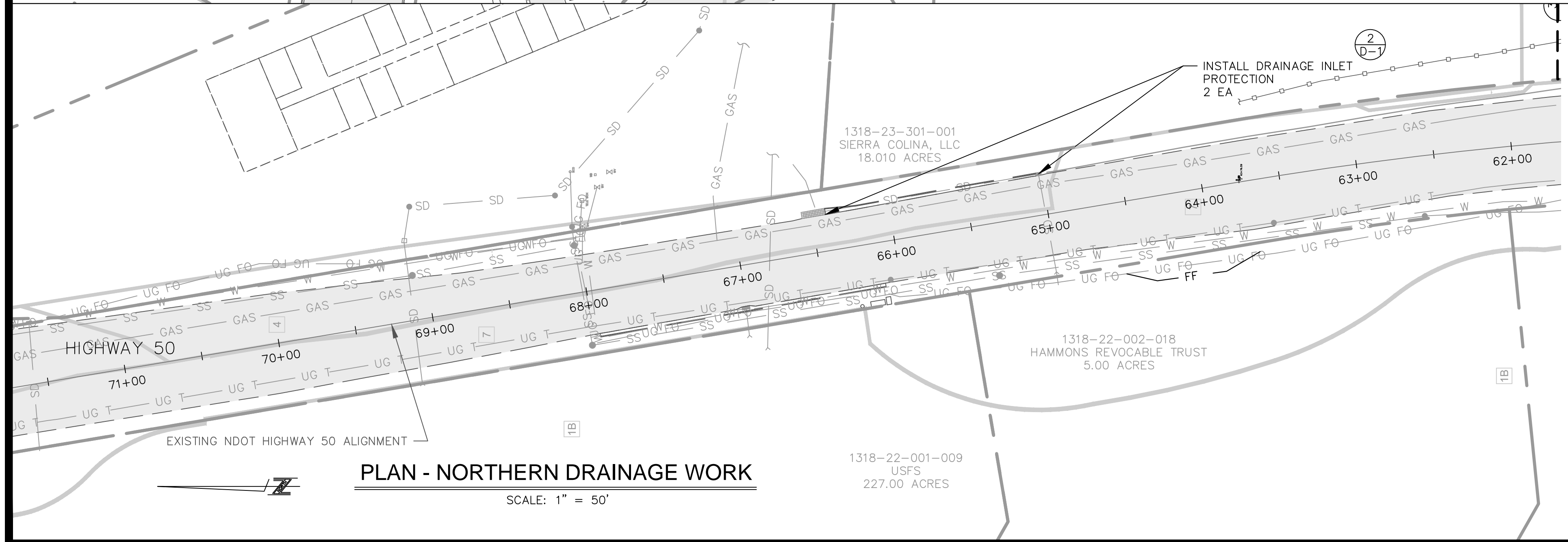
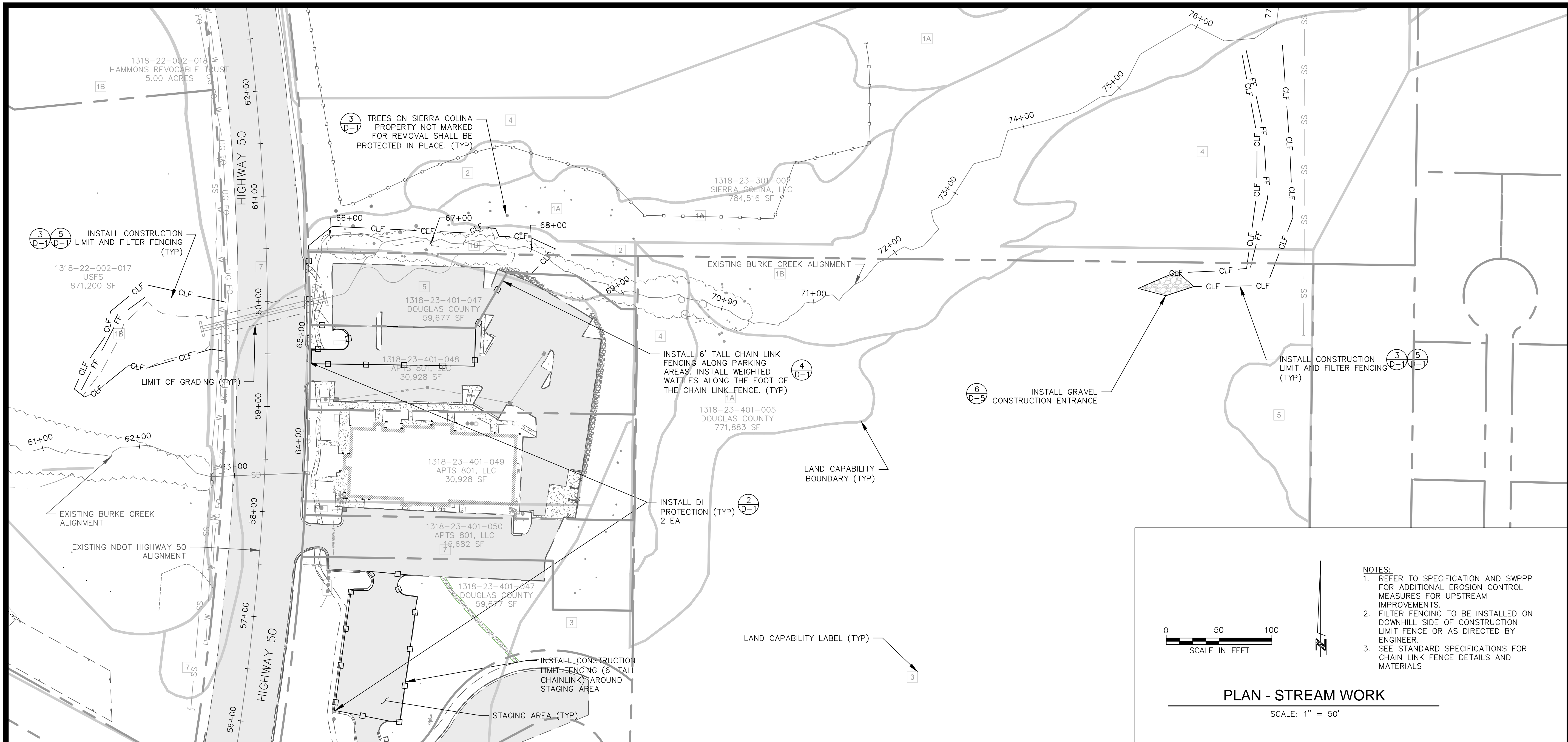


NOTES:

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.

PLAN - NORTHERN DRAINAGE WORK
SCALE: 1" = 50'

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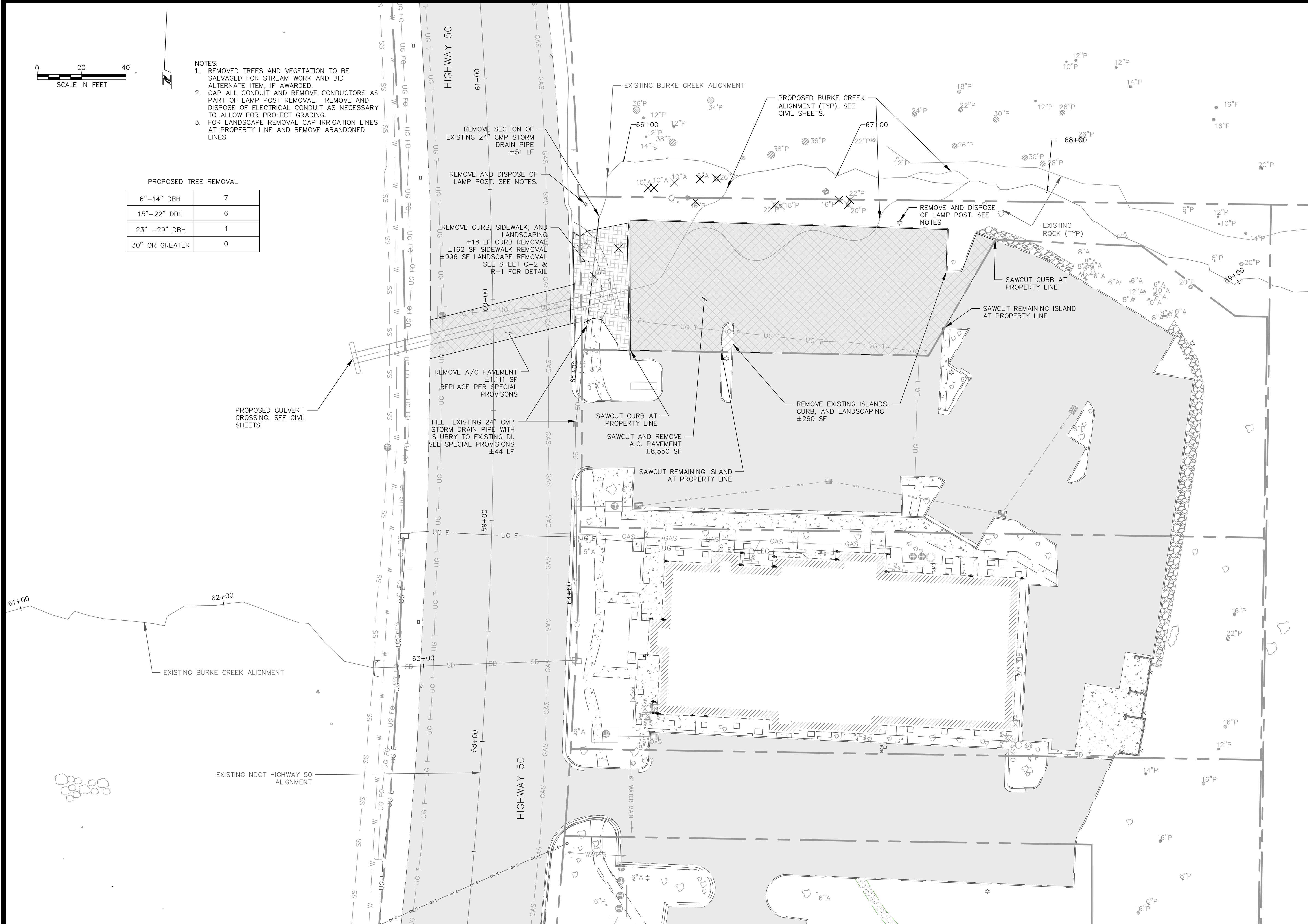




- NOTES:
1. REMOVED TREES AND VEGETATION TO BE SALVAGED FOR STREAM WORK AND BID ALTERNATE ITEM, IF AWARDED.
 2. CAP ALL CONDUIT AND REMOVE CONDUCTORS AS PART OF LAMP POST REMOVAL. REMOVE AND DISPOSE OF ELECTRICAL CONDUIT AS NECESSARY TO ALLOW FOR PROJECT GRADING.
 3. FOR LANDSCAPE REMOVAL CAP IRRIGATION LINES AT PROPERTY LINE AND REMOVE ABANDONED LINES.

PROPOSED TREE REMOVAL

6"–14" DBH	7
15"–22" DBH	6
23"–29" DBH	1
30" OR GREATER	0



DEMOLITION
BURKE CREEK HWY 50 CROSSING AND
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DEWATERING & DIVERSION PLAN
BURKE CREEK HWY 50 CROSSING AND
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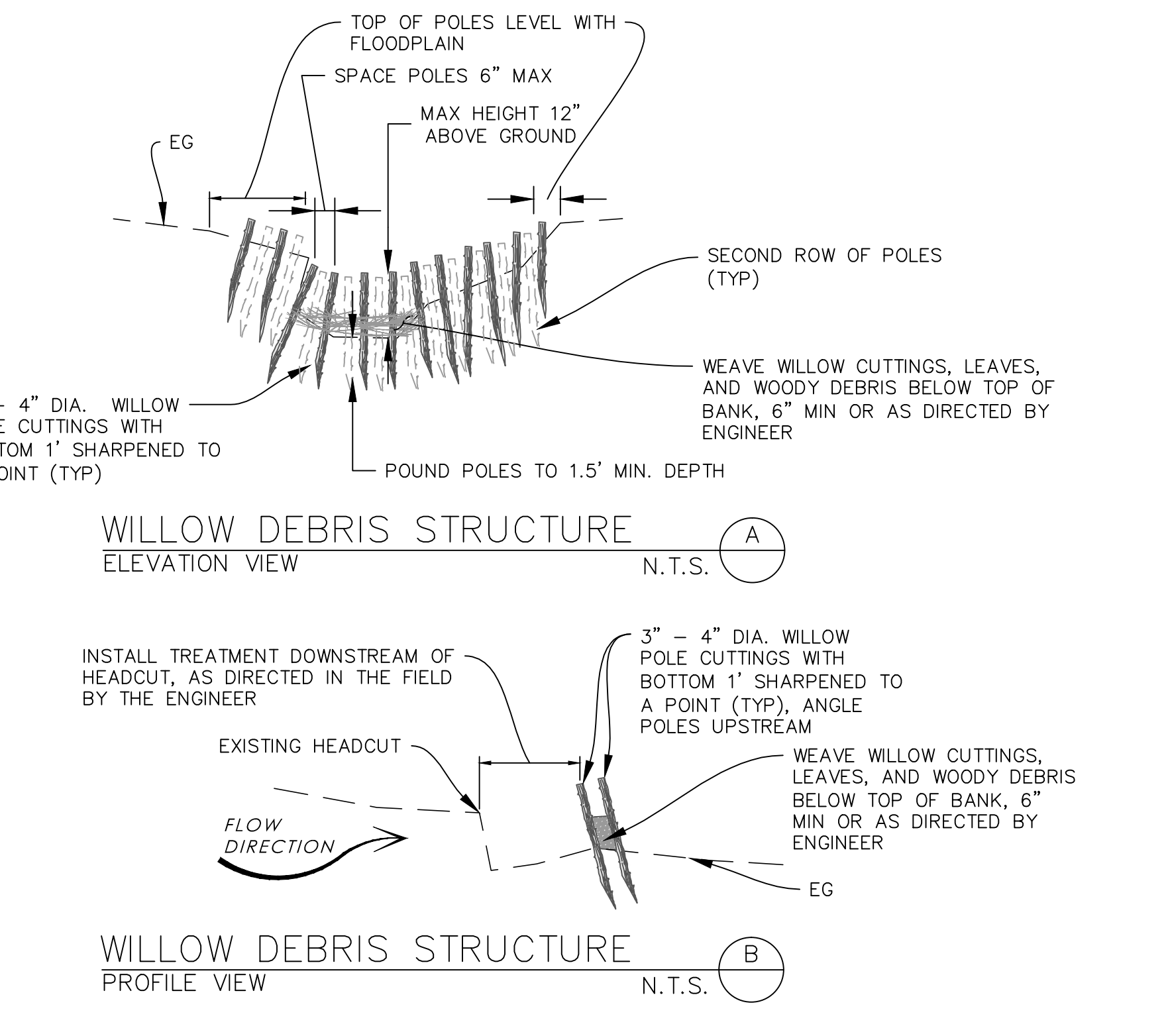
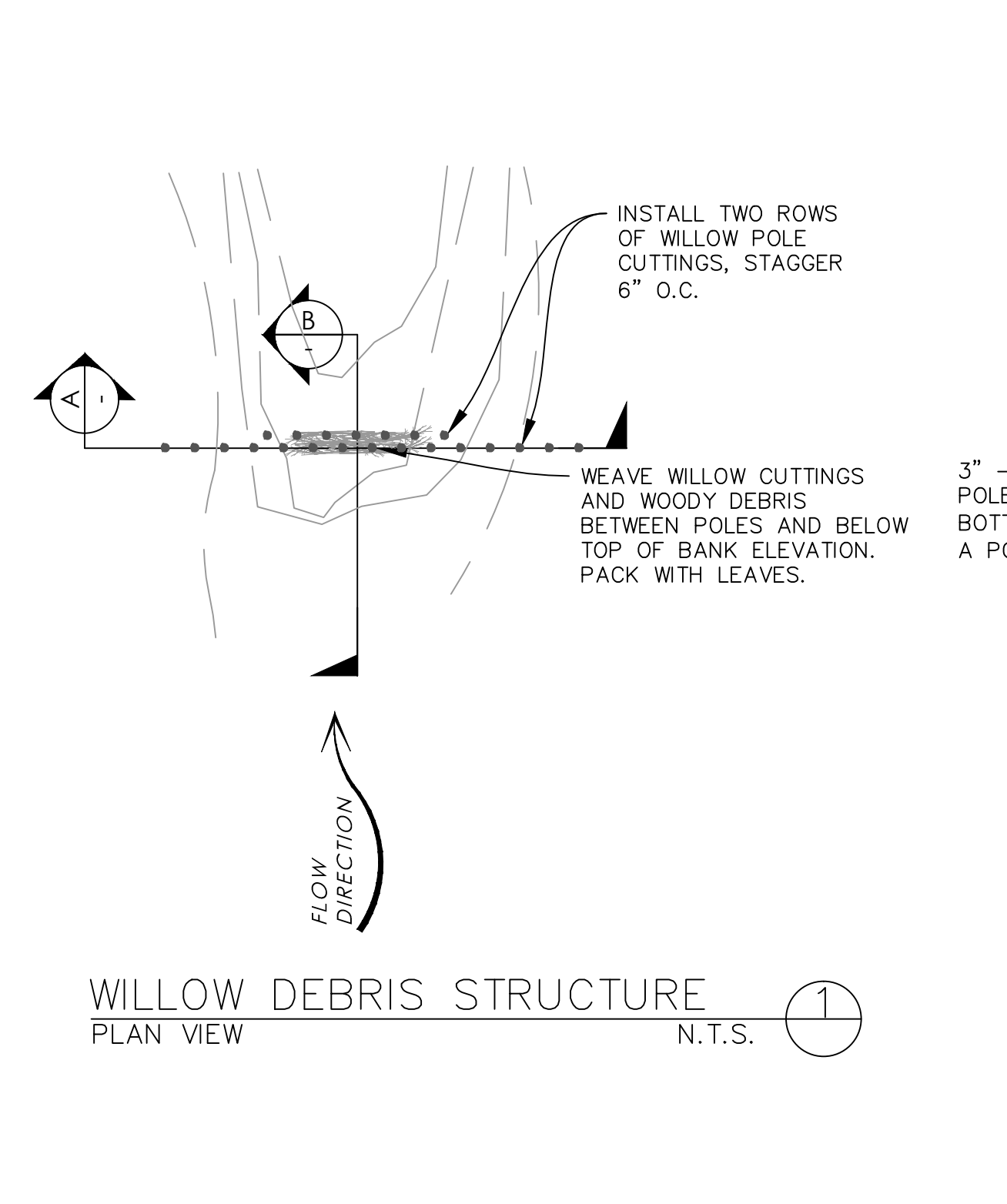
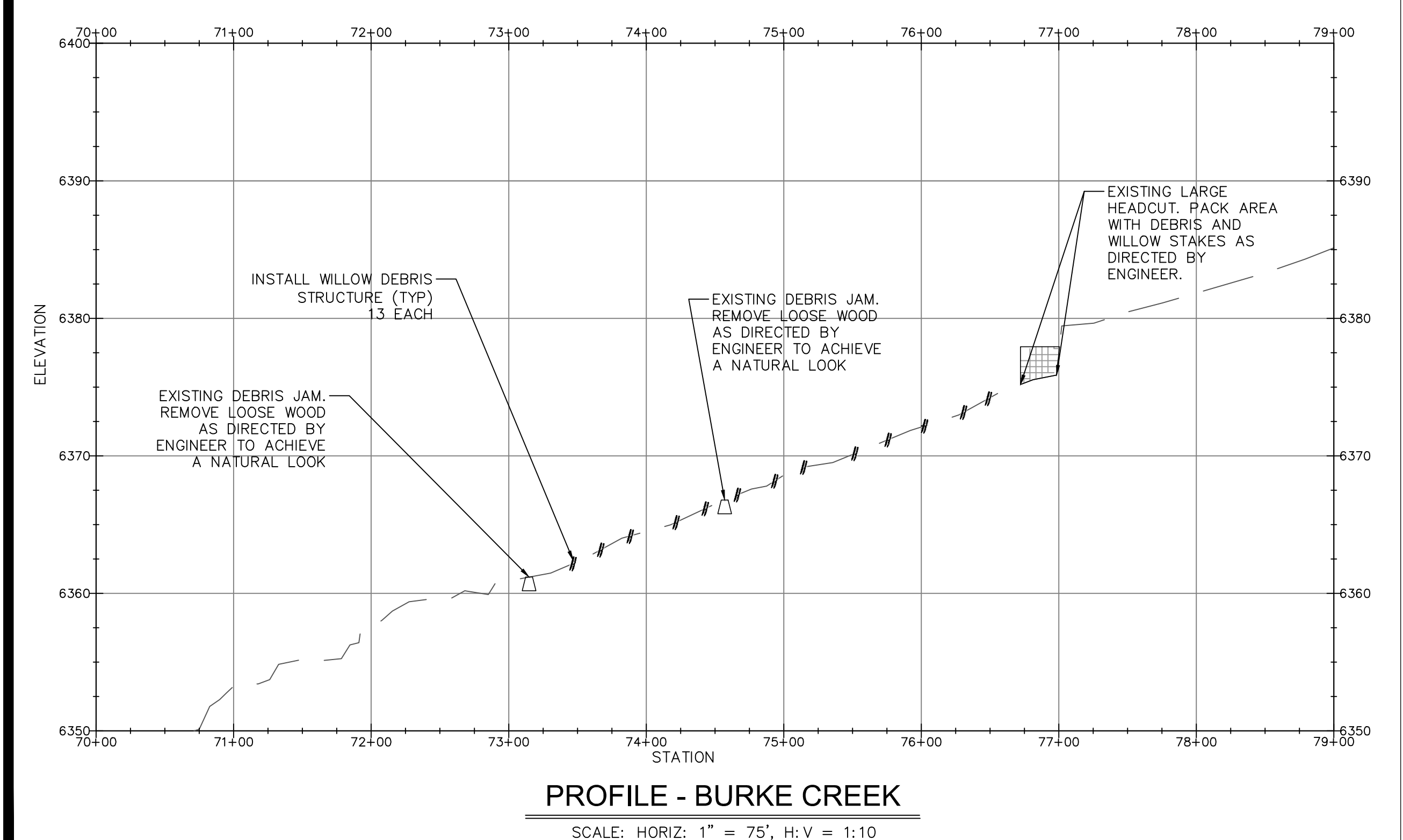
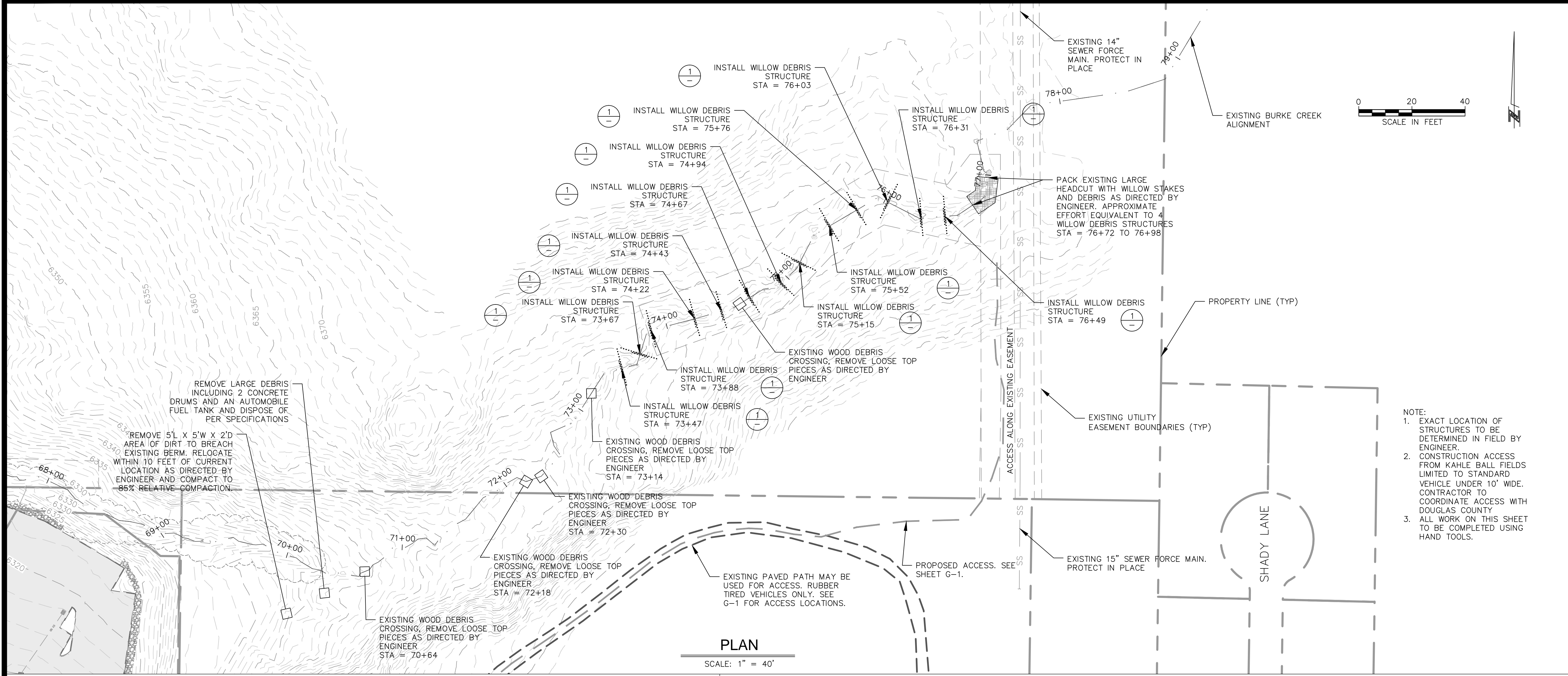
- NOTES:
1. DEWATERING AND DIVERSION MAY ALSO OCCUR AT UPSTREAM IMPROVEMENTS NOT SHOWN ON THIS SHEET. SEE PRELIMINARY DEWATERING AND DIVERSION PLAN, SPECIAL PROVISIONS, AND SWPPP FOR ALL DEWATERING AND DIVERSION REQUIREMENTS
 2. CONTRACTOR TO SUBMIT PLAN AND PHASING FOR DIVERSION BEFORE, DURING, AND AFTER PROPOSED CULVERT CONSTRUCTION BEFORE ANY DEWATERING OR DIVERSION OCCURS.
 3. DEWATERING AND DIVERSION PLAN SHALL PROTECT EXISTING VEGETATION ON SIERRA COLINA PROPERTY



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SCALE	1" = 20'
PROJECT	BCC

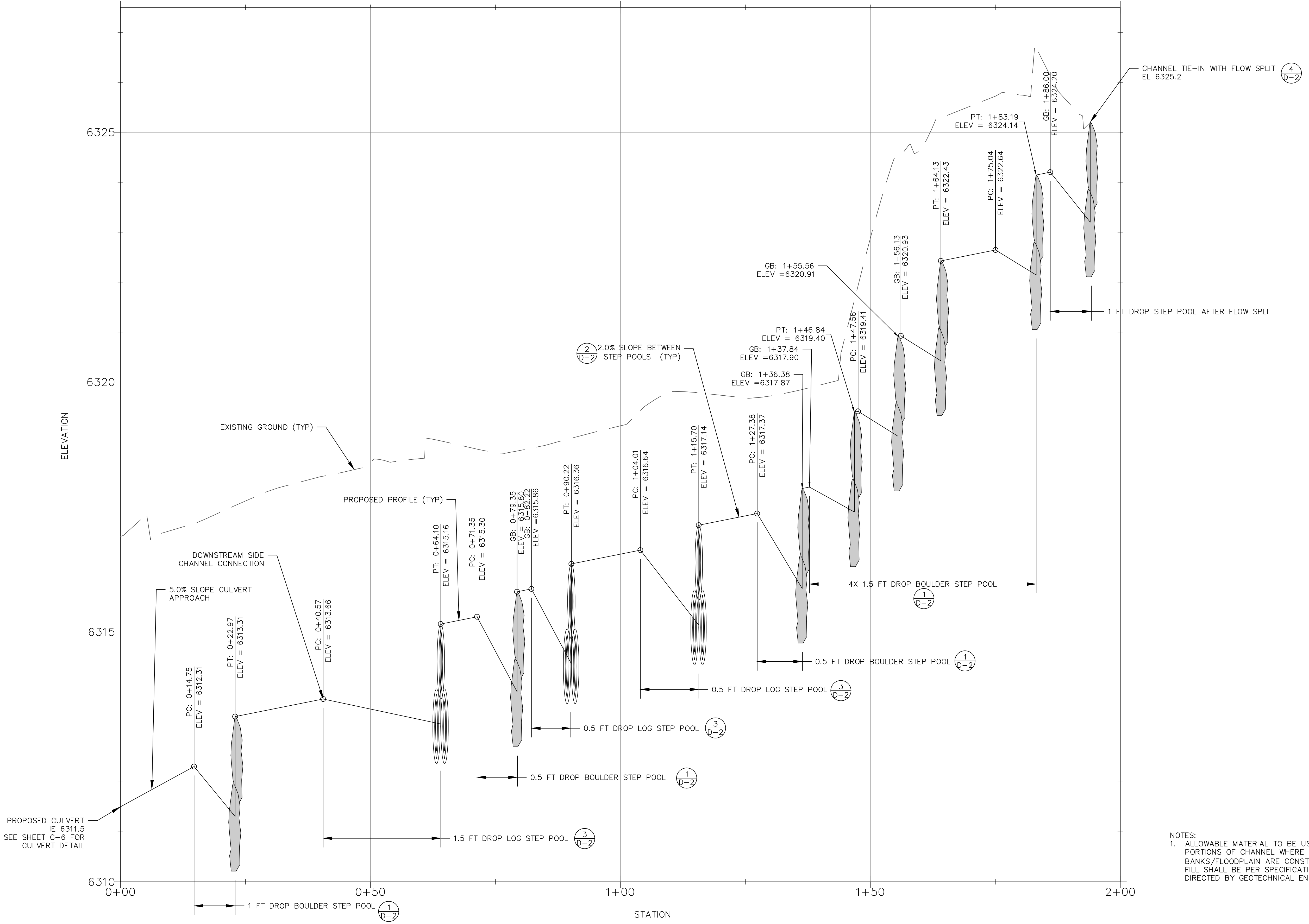


UPSTREAM IMPROVEMENTS
BURKE CREEK HWY 50 CROSSING AND
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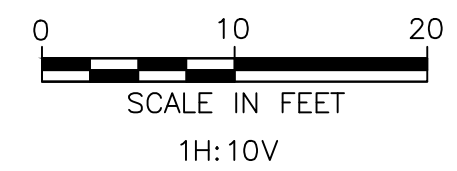
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PROJECT	BCC

MAIN CHANNEL CREEK PROFILE
BURKE CREEK HWY 50 CROSSING AND
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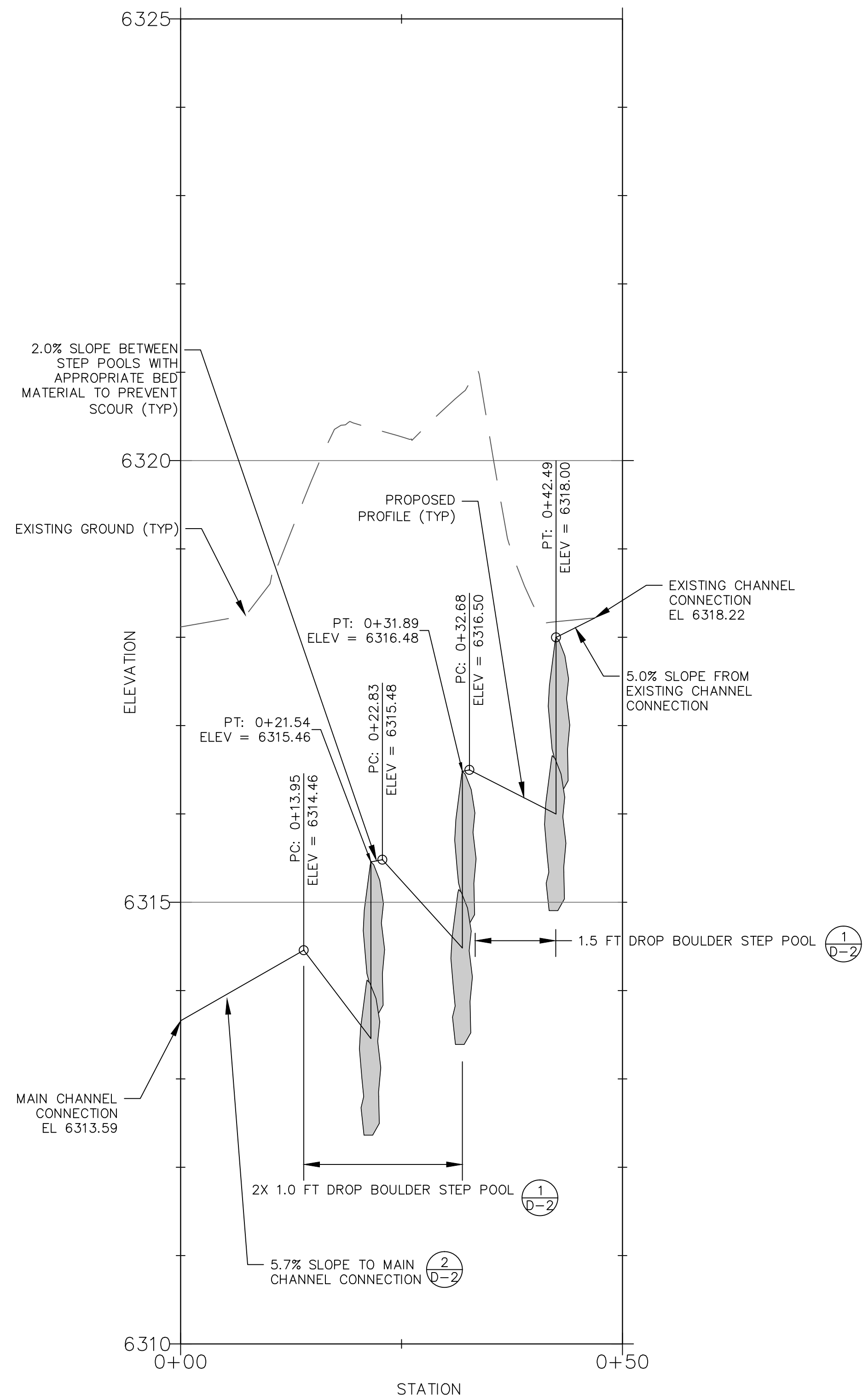


NOTES:
1. ALLOWABLE MATERIAL TO BE USED ON PORTIONS OF CHANNEL WHERE BANKS/FLOODPLAIN ARE CONSTRUCTED WITH FILL SHALL BE PER SPECIFICATION AND AS DIRECTED BY GEOTECHNICAL ENGINEER

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

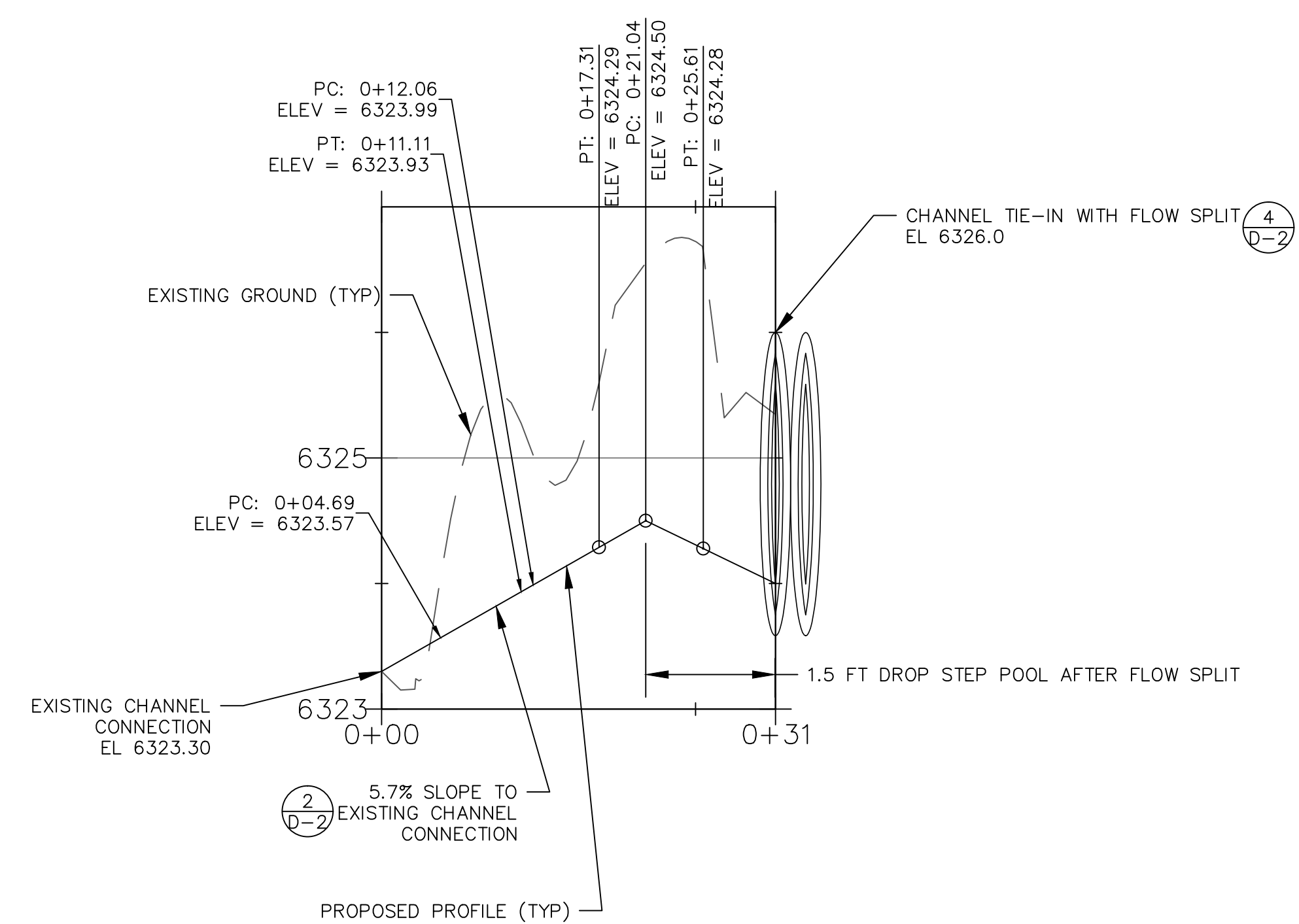


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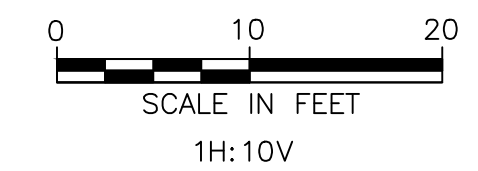
**PROPOSED BURKE CREEK PROFILE
DOWNSTREAM SIDE CHANNEL**

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



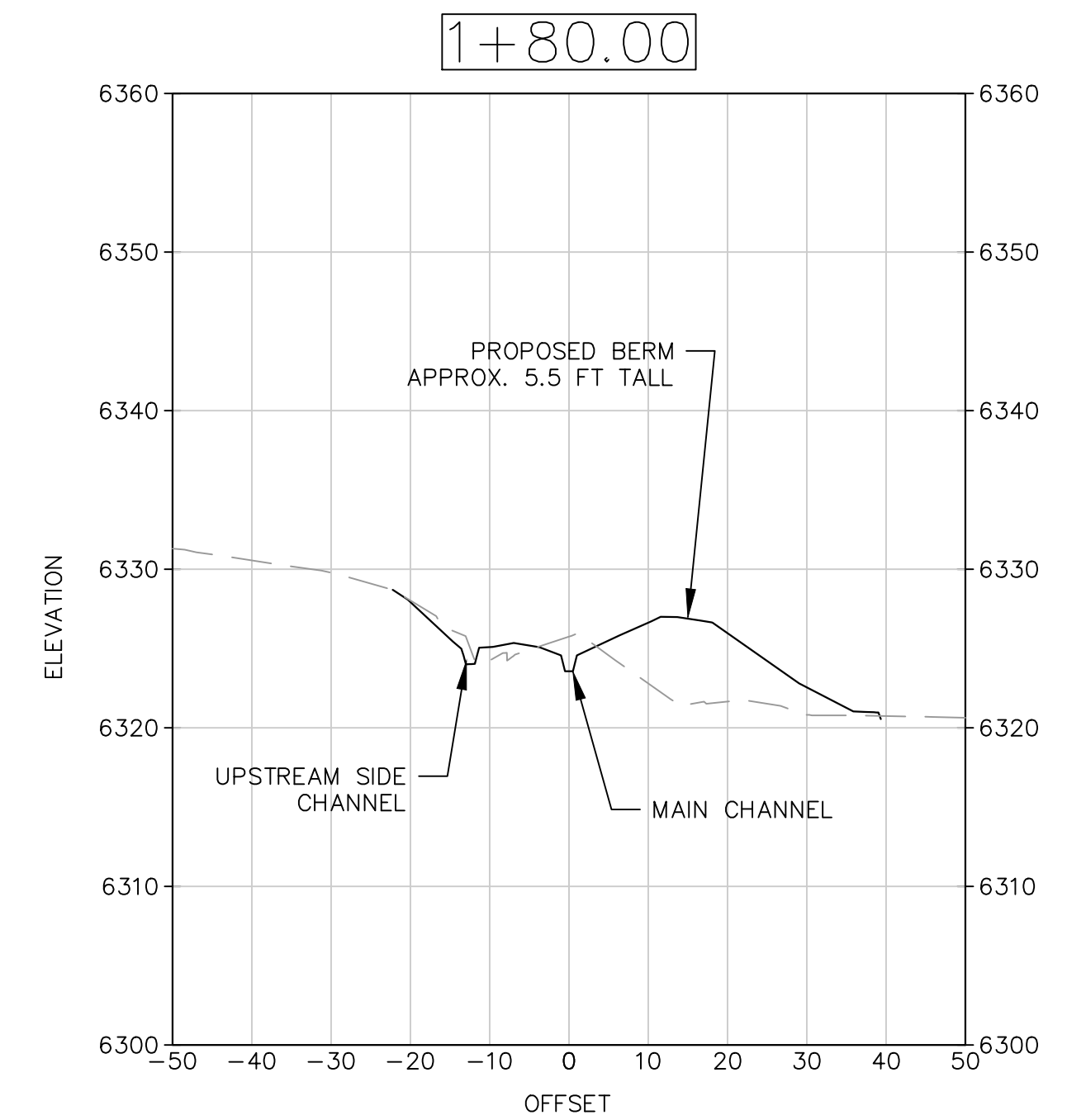
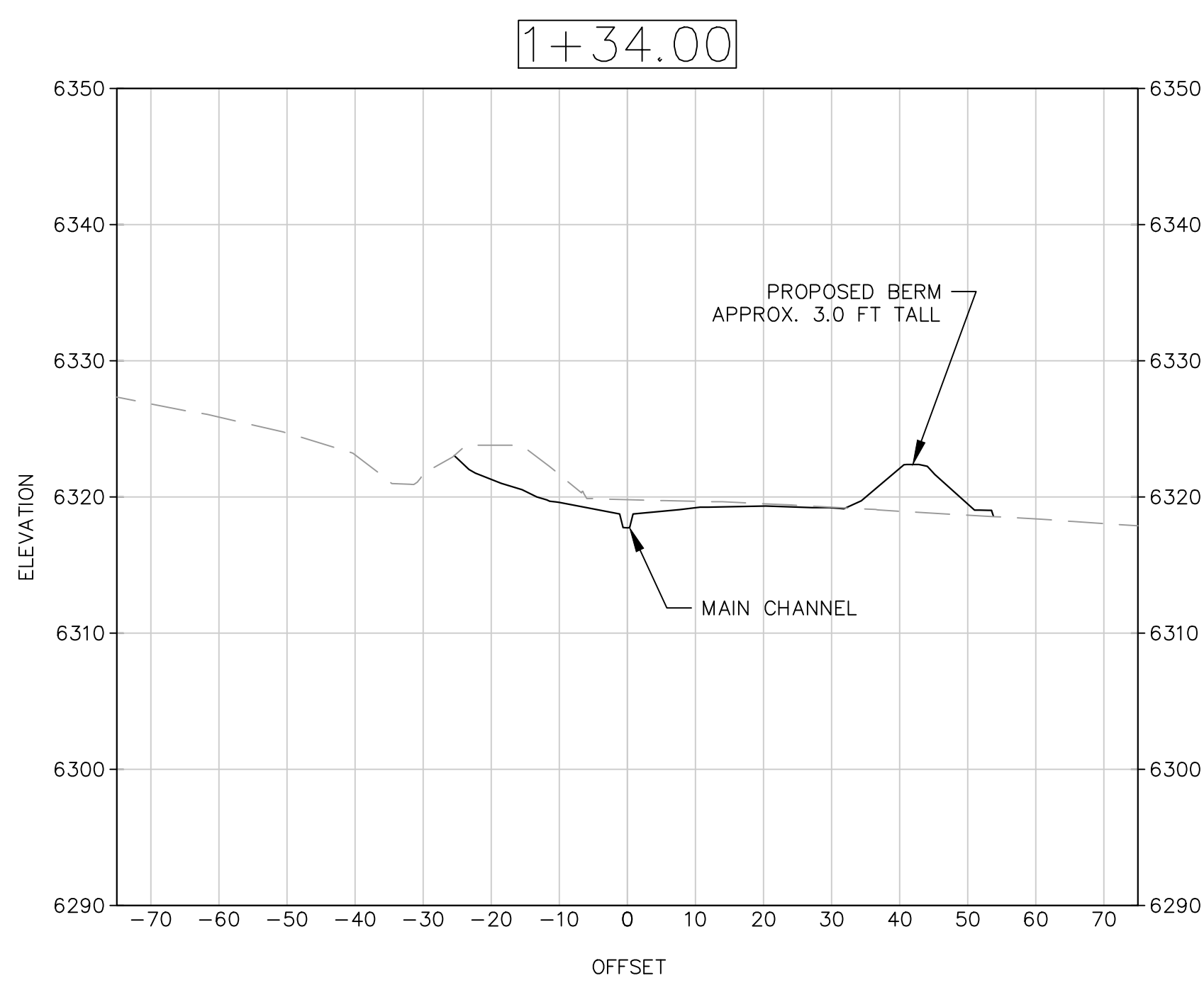
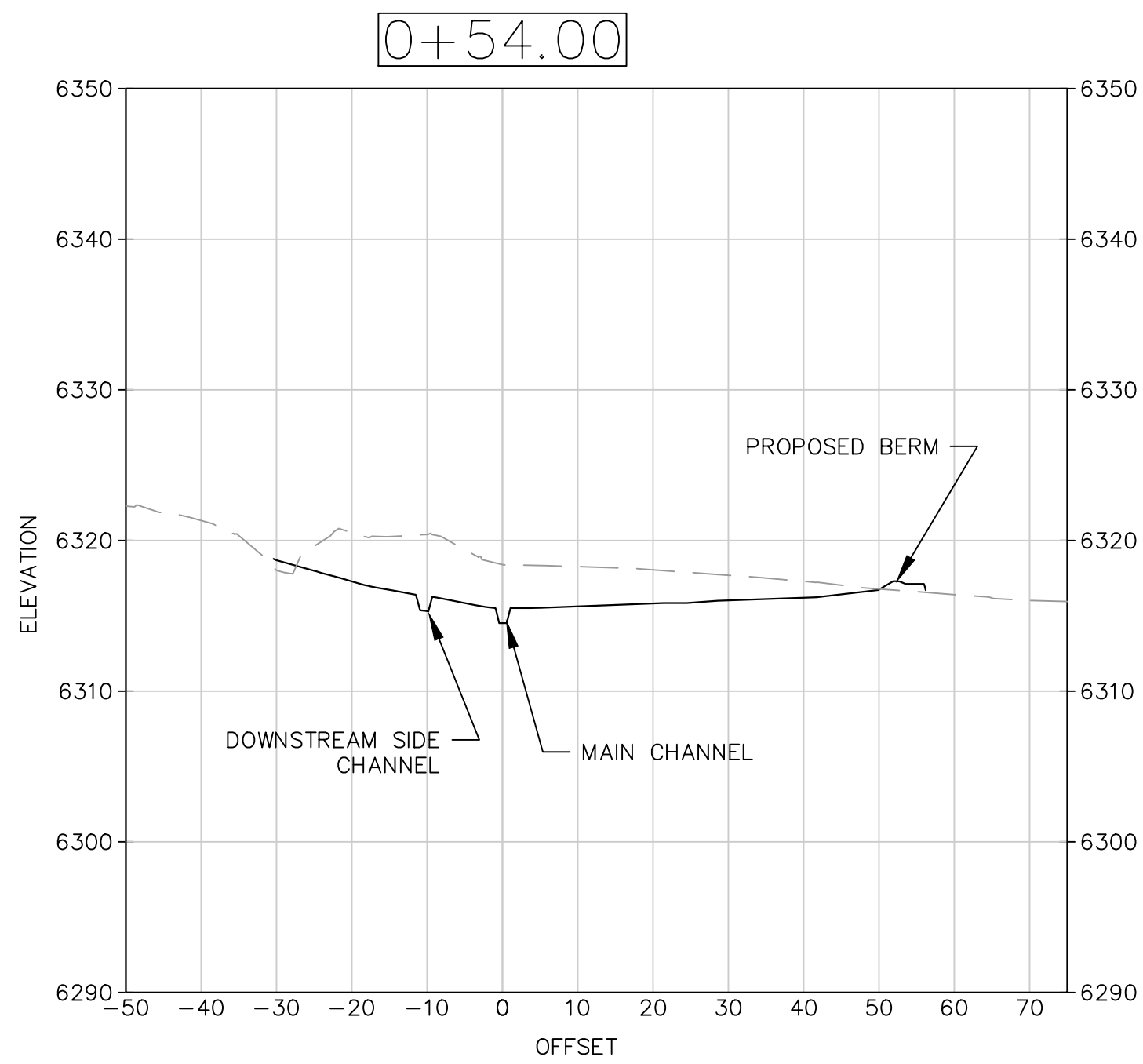
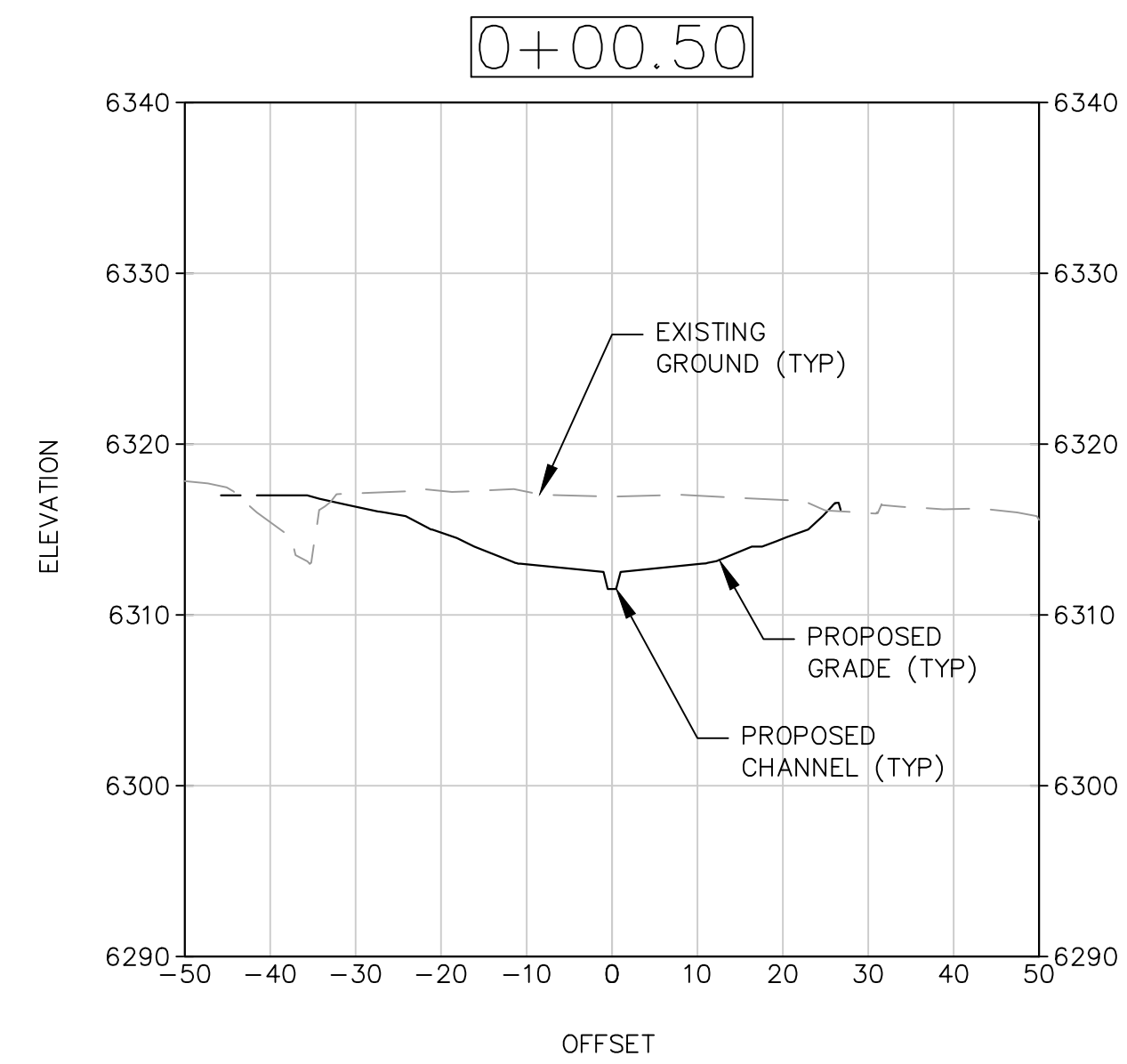
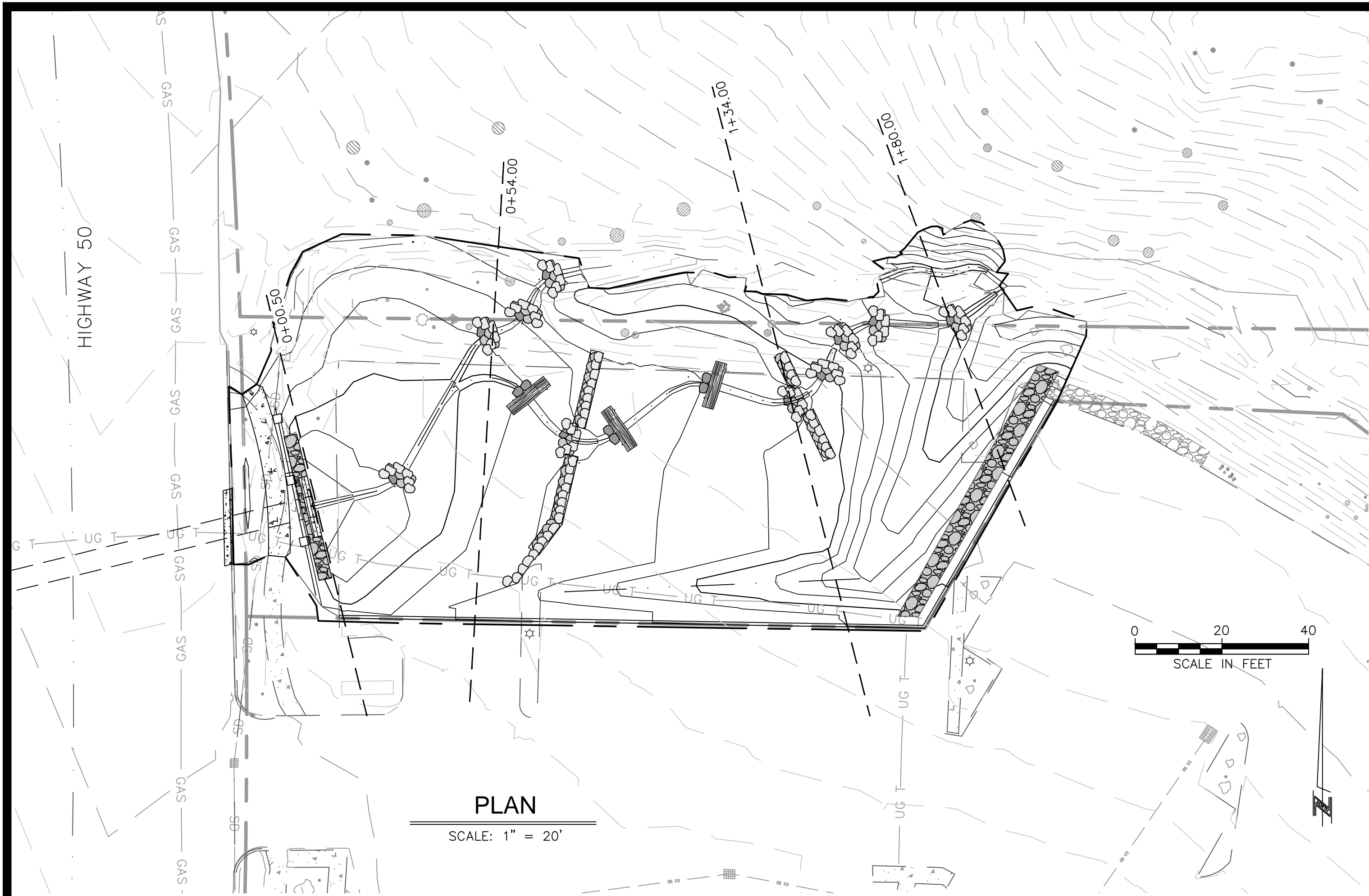
**PROPOSED BURKE CREEK PROFILE
UPSTREAM SIDE CHANNEL**

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



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



**FLOODPLAIN CROSS SECTIONS
UPSTREAM OF HIGHWAY 50**

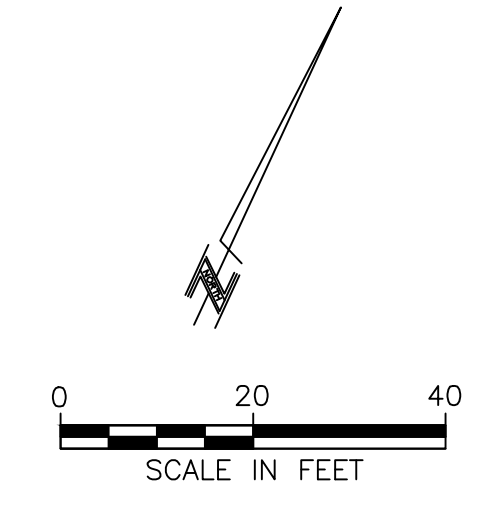
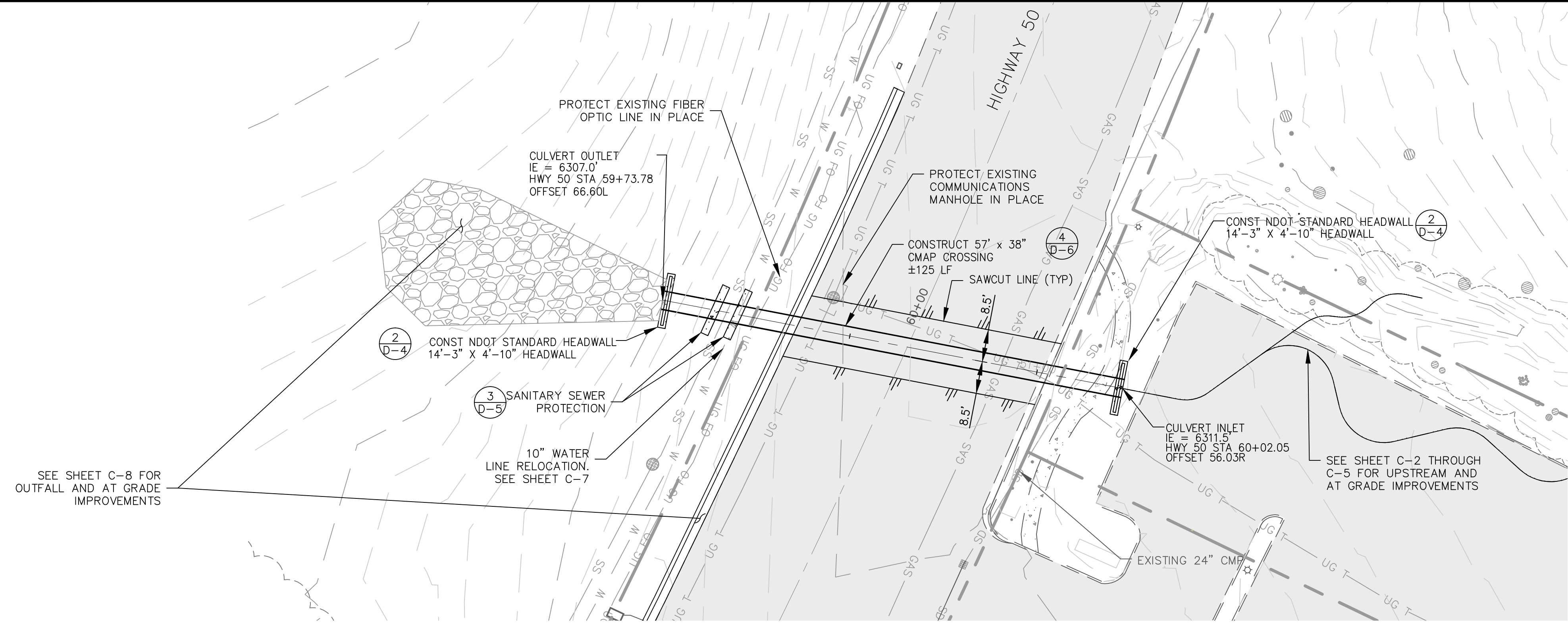
SCALE: HORIZ: 1" = 20'; H: V = 1: 2

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

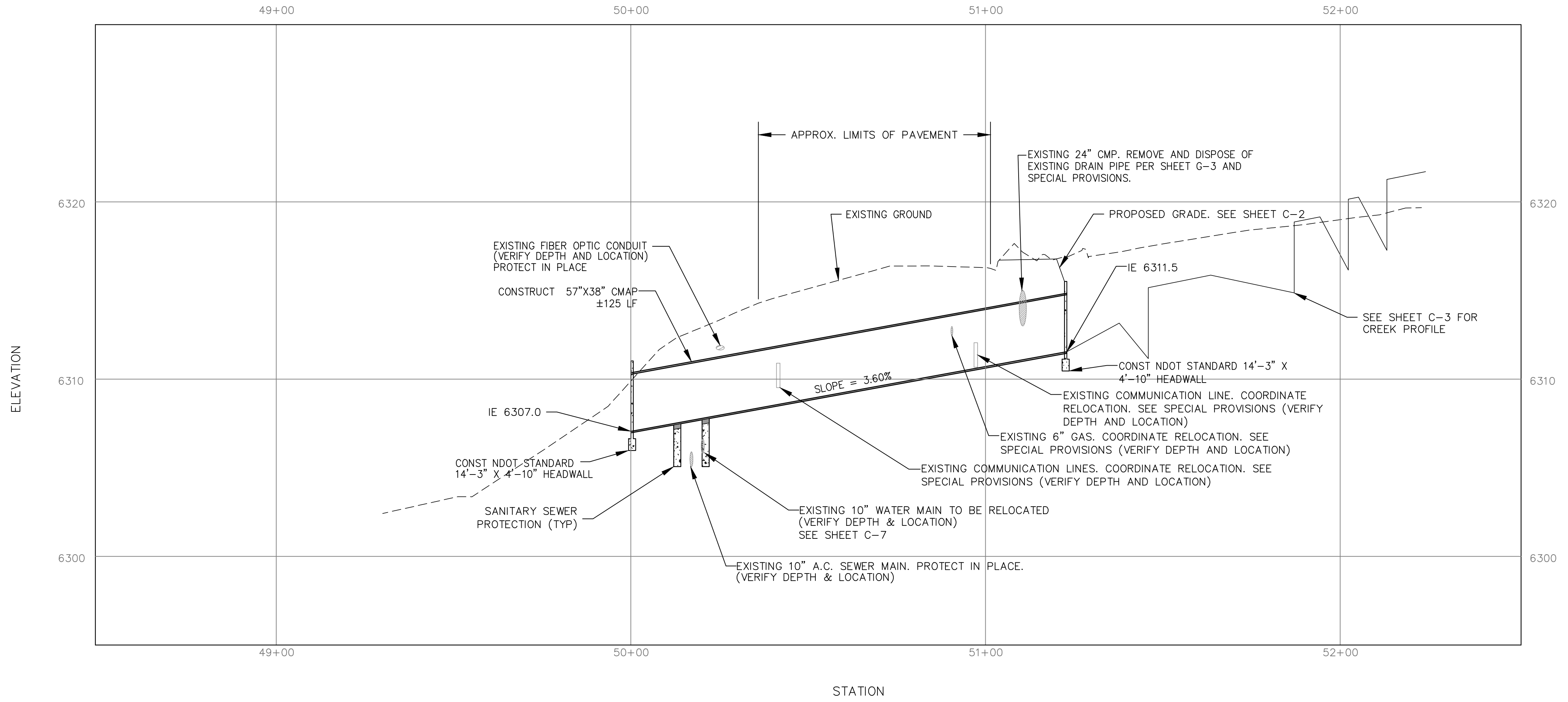
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CHECKED	MG/MK
DATE	05/13/2016
SCALE	1"=20' H, H:V=1:5
PROJECT	BCC



- NOTES:
1. SEE C-2, C-7, DEMOLITION, AND LANDSCAPING SHEETS FOR ADDITIONAL IMPROVEMENTS ABOVE CMAP AT STREET LEVEL.
 2. 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.

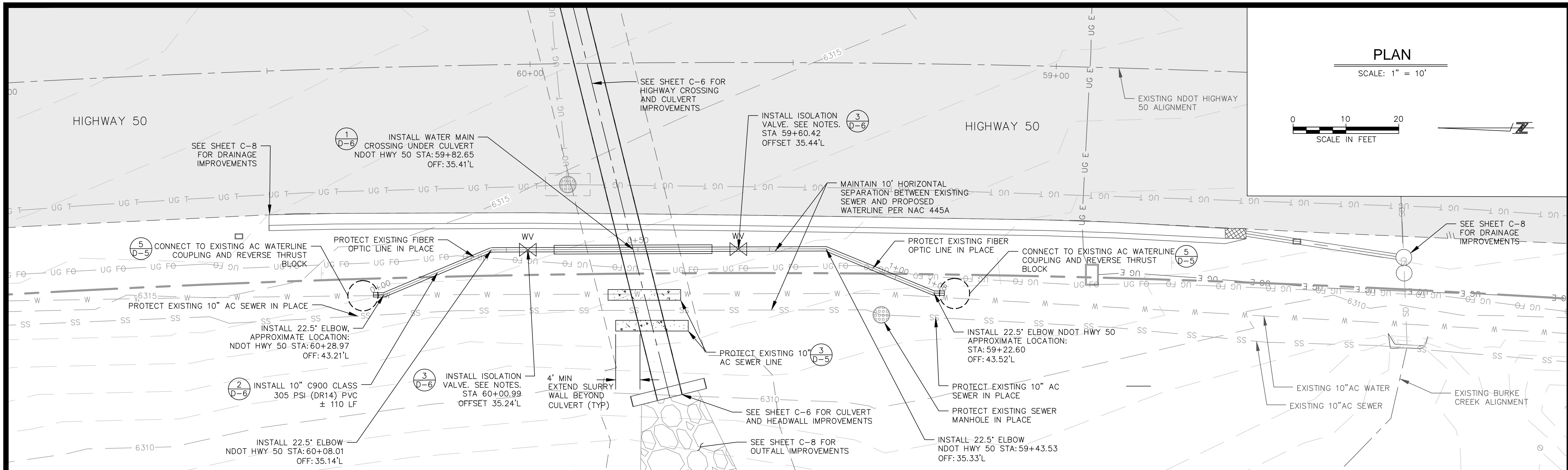
PLAN

SCALE: 1" = 20'



PROFILE

SCALE: HORIZ: 1" = 20', H:V = 1:5



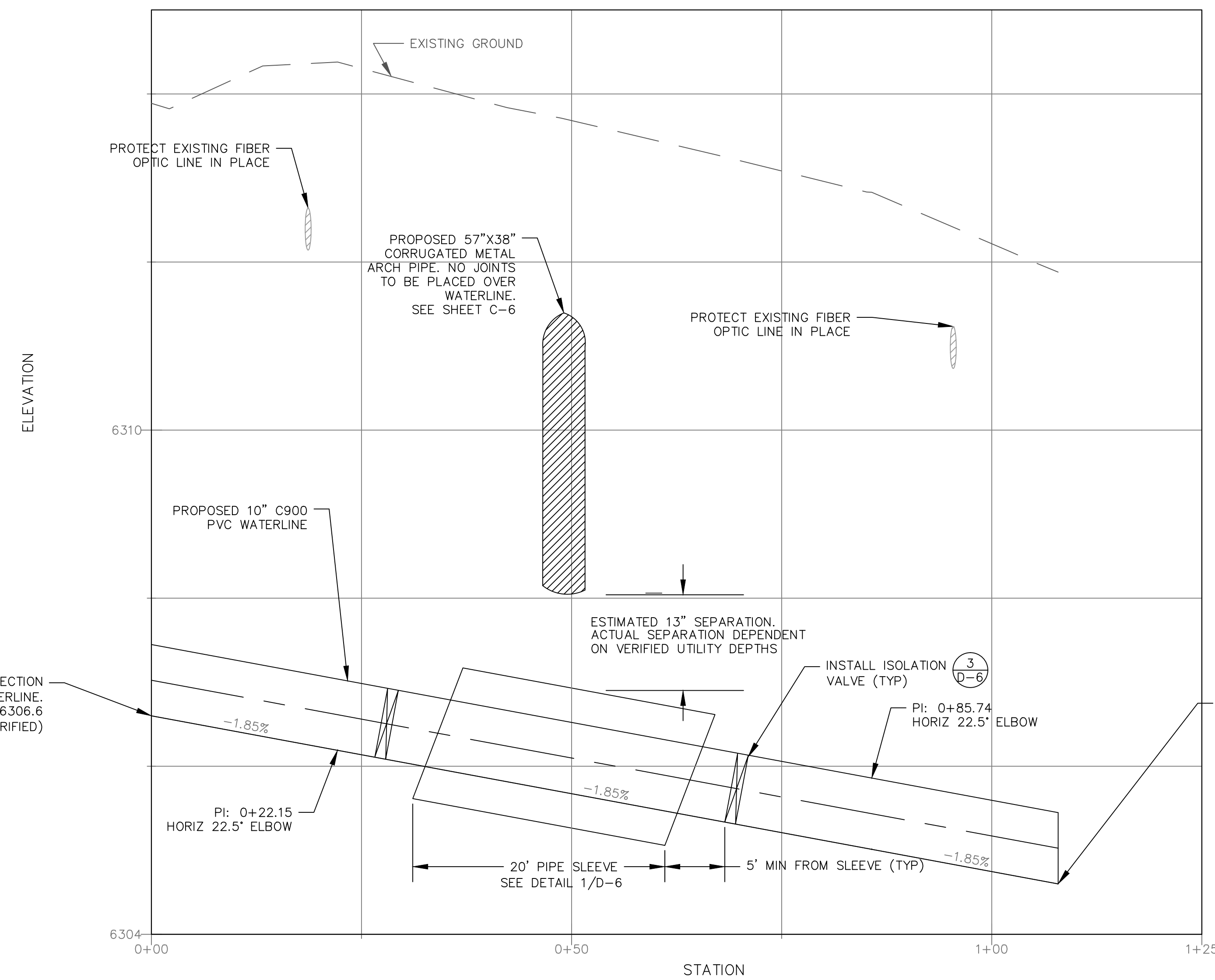
PLAN

SCALE: 1" = 10'

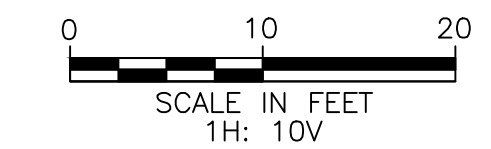


PROPOSED 10" WATER MAIN RELOCATION PROFILE

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



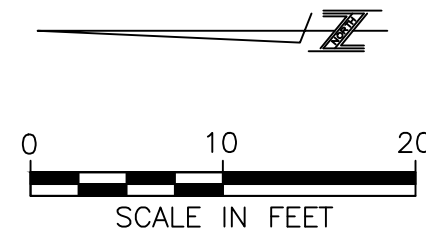
- NOTES:
1. ALL UTILITY HORIZONTAL AND VERTICAL LOCATIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY CONFLICTS OR DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
 2. STATIONS AND OFFSETS SHOWN ARE APPROXIMATE. EXACT LOCATION OF WATERLINE, INCLUDING CONNECTIONS, FITTINGS, AND VALVES, 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 IRRIGATION CONNECTION.
 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. VALVES IN THE KGID WATER SYSTEM SHALL ONLY BE TURNED BY KGID OPERATORS. IN NO CASE SHALL THE CONTRACTOR TURN ANY VALVES WITHIN THE KGID SYSTEM.
 8. SEE DETAILS FOR ADDITIONAL NOTES ON COMMUNICATIONS WITH DCSID.



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

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PROJECT	BCC

- 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. TRANSITION CHANNEL FROM 58" CULVERT TO 24" CHANNEL TOP WIDTH OVER 10 FEET.
 3. LIMITS OF CBM TO BE STAKED IN FIELD BY ENGINEER.
 4. SALVAGE EXISTING VEGETATION TO BE USED IN STREAM WORK.



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

SEE SHEET C-6 FOR HIGHWAY CROSSING IMPROVEMENTS

EXISTING NDOT HIGHWAY 50 ALIGNMENT

HIGHWAY 50

EXISTING 24" CMP

INSTALL DOUBLE SEDIMENT TRAP AND TIE-IN TO EXISTING 24" CMP

INSTALL COMBINATION DI AT NATURAL LOW POINT AS DIRECTED BY ENGINEER. STATION 58+66.79 OFFSET 29.79'L

BGN RCP STATION 58+62.74 OFFSET 30.62'L

END RCP STATION 58+33.71 OFFSET 33.69'L

BGN CURB TBC STATION 60+50.70 OFFSET 30.32'L

SEE SHEET C-6 FOR CULVERT AND HEADWALL DIMENSIONS

CULVERT OUTLET. SEE NOTE 2. HWY 50 STA 59+73.78 OFFSET 66.60L EL 6307.0

RELOCATE EXISTING ELECTRICAL VAULT

INSTALL 15" RCP ±30 LF

CONSTRUCT ROLLED CURB AND GUTTER ±182 LF

PROP BURKE CREEK CENTERLINE 11.4% SLOPE

WILLOW STAKES (TYP) INSTALL ON GRID PATTERN, 5' O.C. MAX

4" EMBEDDED BOULDER (TYP): SEE SECTION F-F

TOE OF CHANNEL BANK (TYP)

GRADE BREAK HWY 50 STA 59+63.73 OFFSET 106.25L EL 6302.0

INSTALL ROCK SLOPE PROTECTION (TYP) ±82 SF

CHANNEL BED MATERIAL. SEE SECTION F-F THIS SHEET. LIMITS OF CBM TO BE STAKED IN THE FIELD BY ENGINEER ±2,070 SF

EMBED LOG END INTO EG

WING LOG

PLACE 4' BALLAST BOULDERS ON TOP OF LOGS AS SHOWN

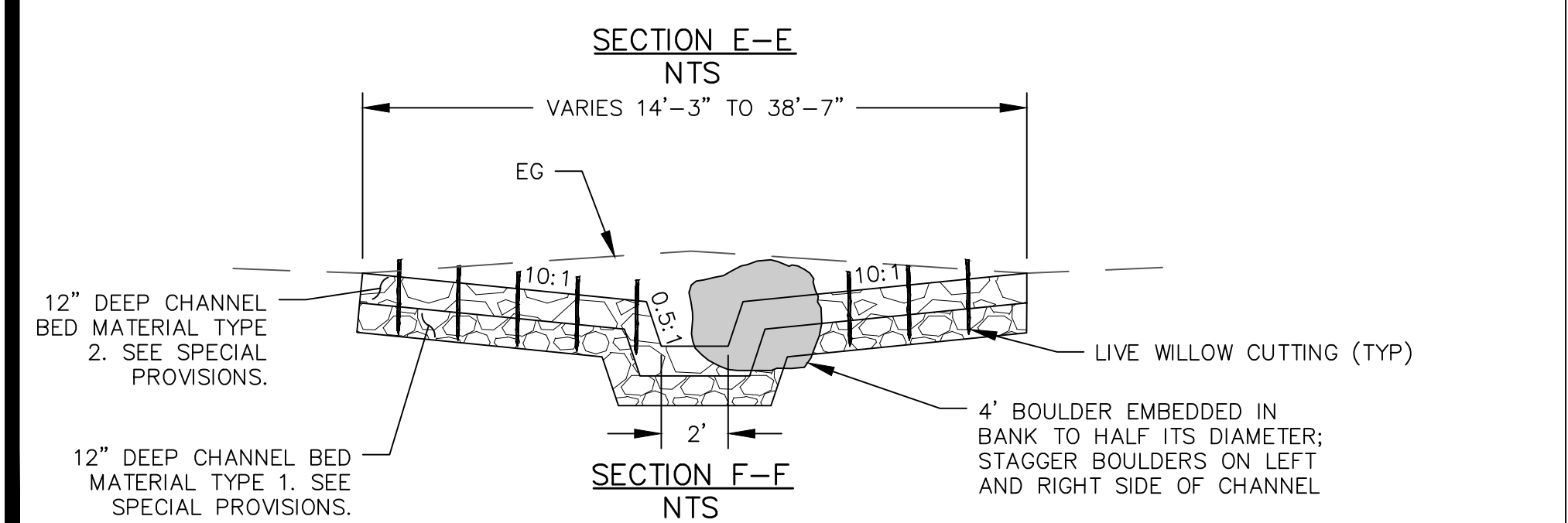
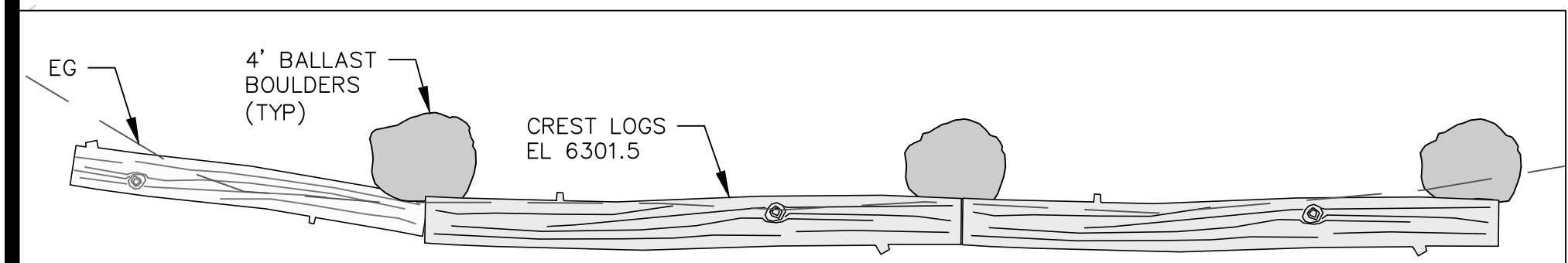
EMBED LOG END INTO EG

EXISTING BURKE CREEK ALIGNMENT

EDGE OF DENSE VEGETATION (TYP)

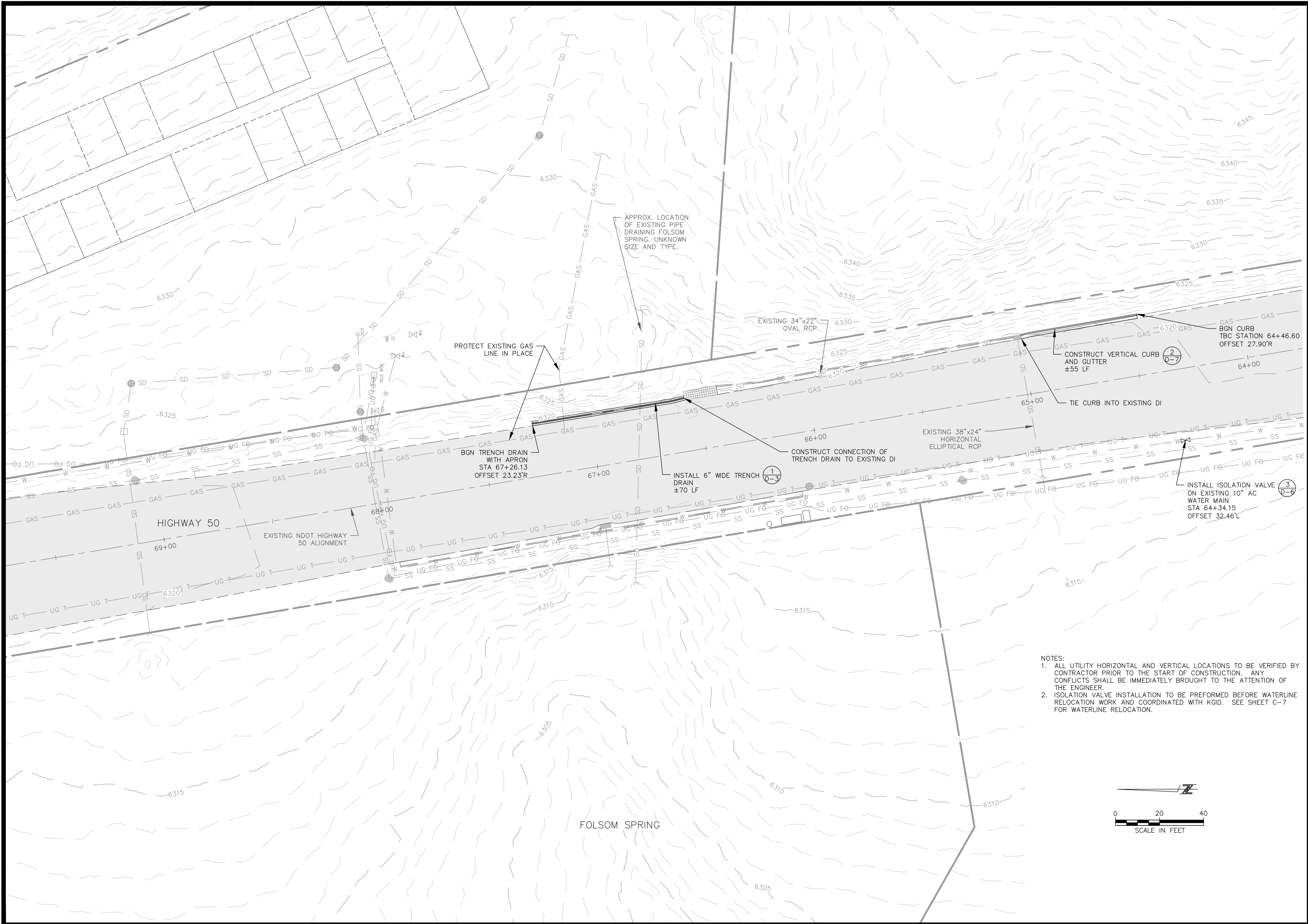
CREST LOG TOP OF ALL CREST LOGS: EL 6301.5

MINIMIZE MEADOW DISTURBANCE TO EXTENT PRACTICABLE.

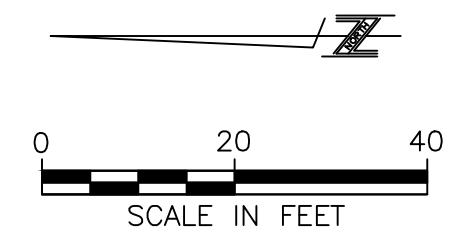


CULVERT OUTFALL
BURKE CREEK HWY 50 CROSSING AND
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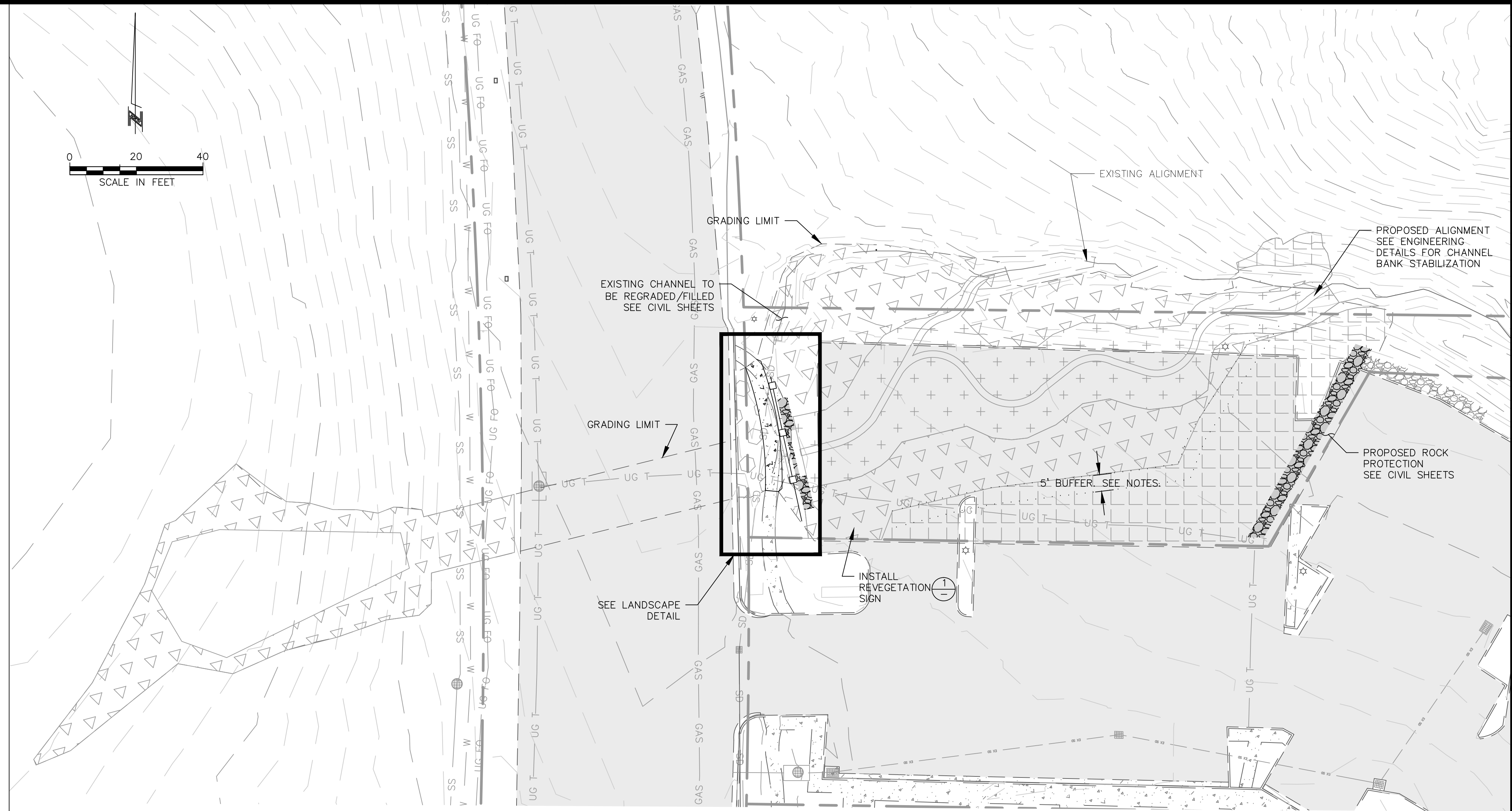
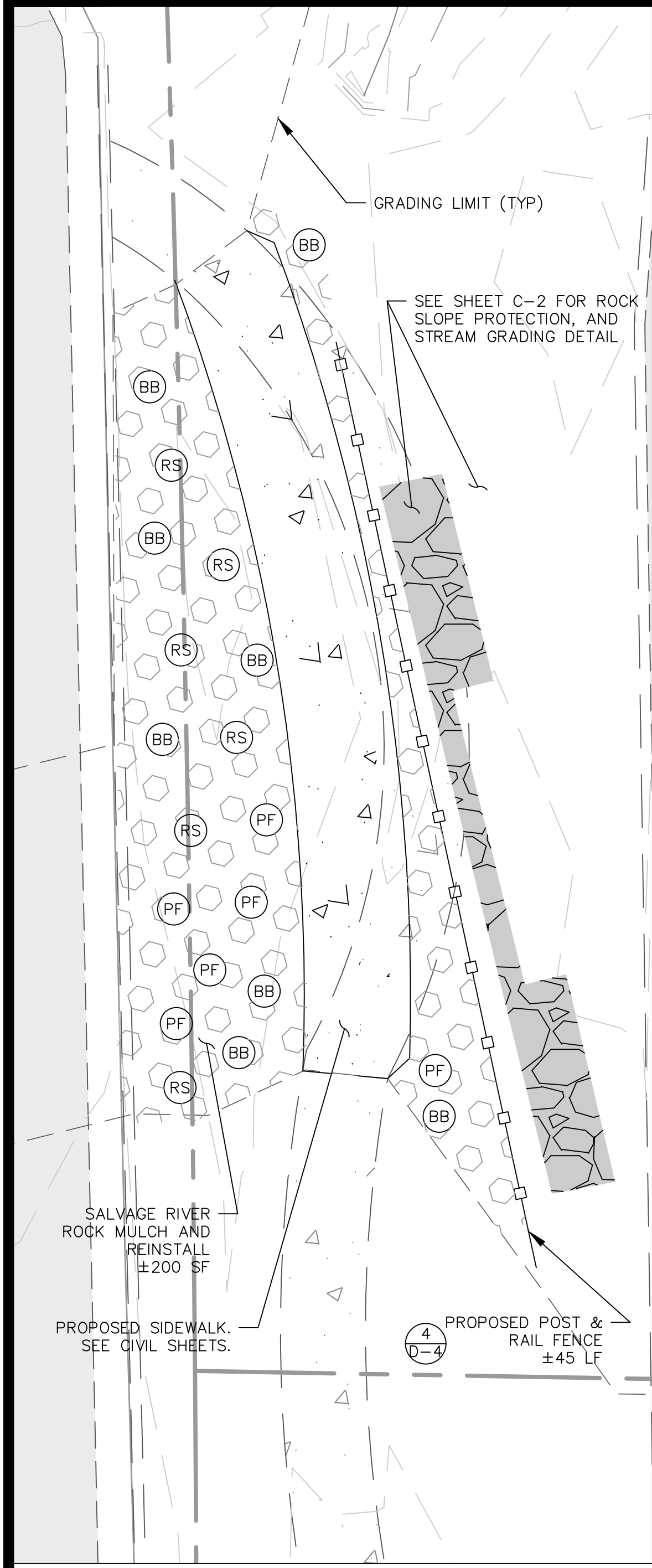


NOTES:
 1. ALL UTILITY HORIZONTAL AND VERTICAL LOCATIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY CONFLICTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
 2. ISOLATION VALVE INSTALLATION TO BE PERFORMED BEFORE WATERLINE RELOCATION WORK AND COORDINATED WITH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

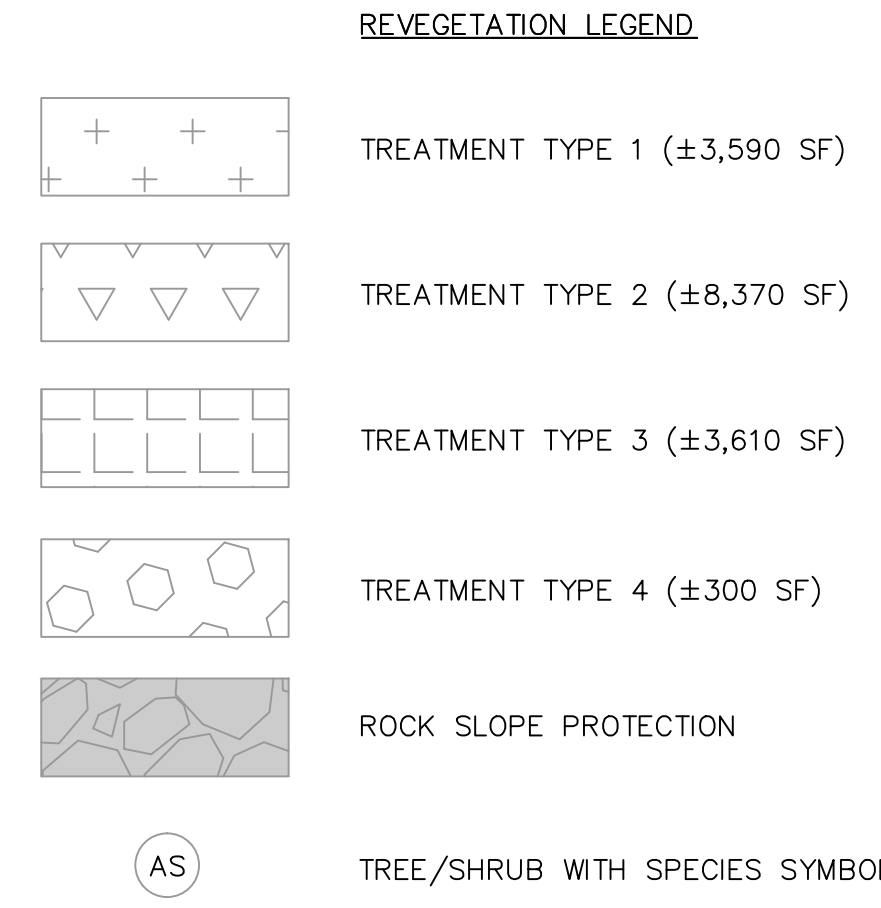


DRAINAGE PLAN NORTH
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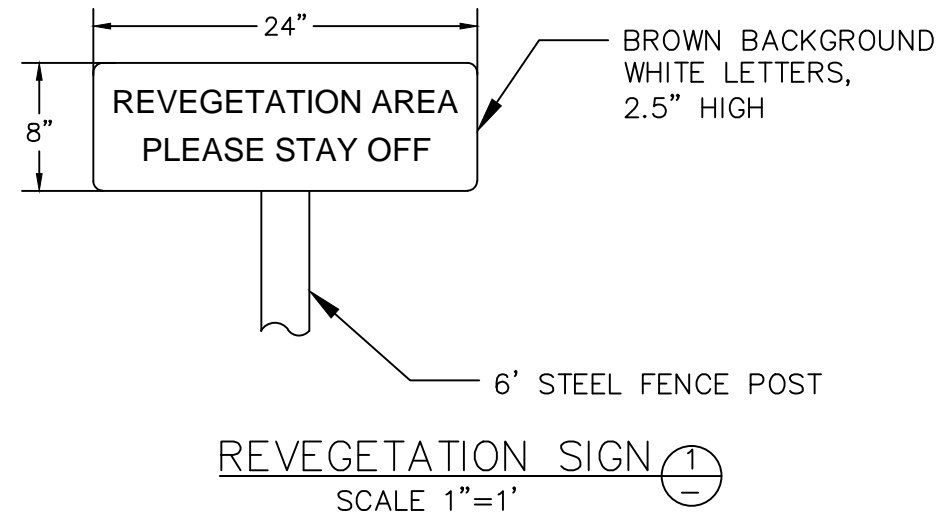
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PLANT LEGEND				PERENNIALS				
SYMBOL	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
AS	<i>Populus tremuloides</i>	Aspen	12	5-gal	<i>Gaillardia pulchella</i>	Indian Blanketflower	20	Supercell
SB	<i>Amelanchier alnifolia</i>	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>Spiraea 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"



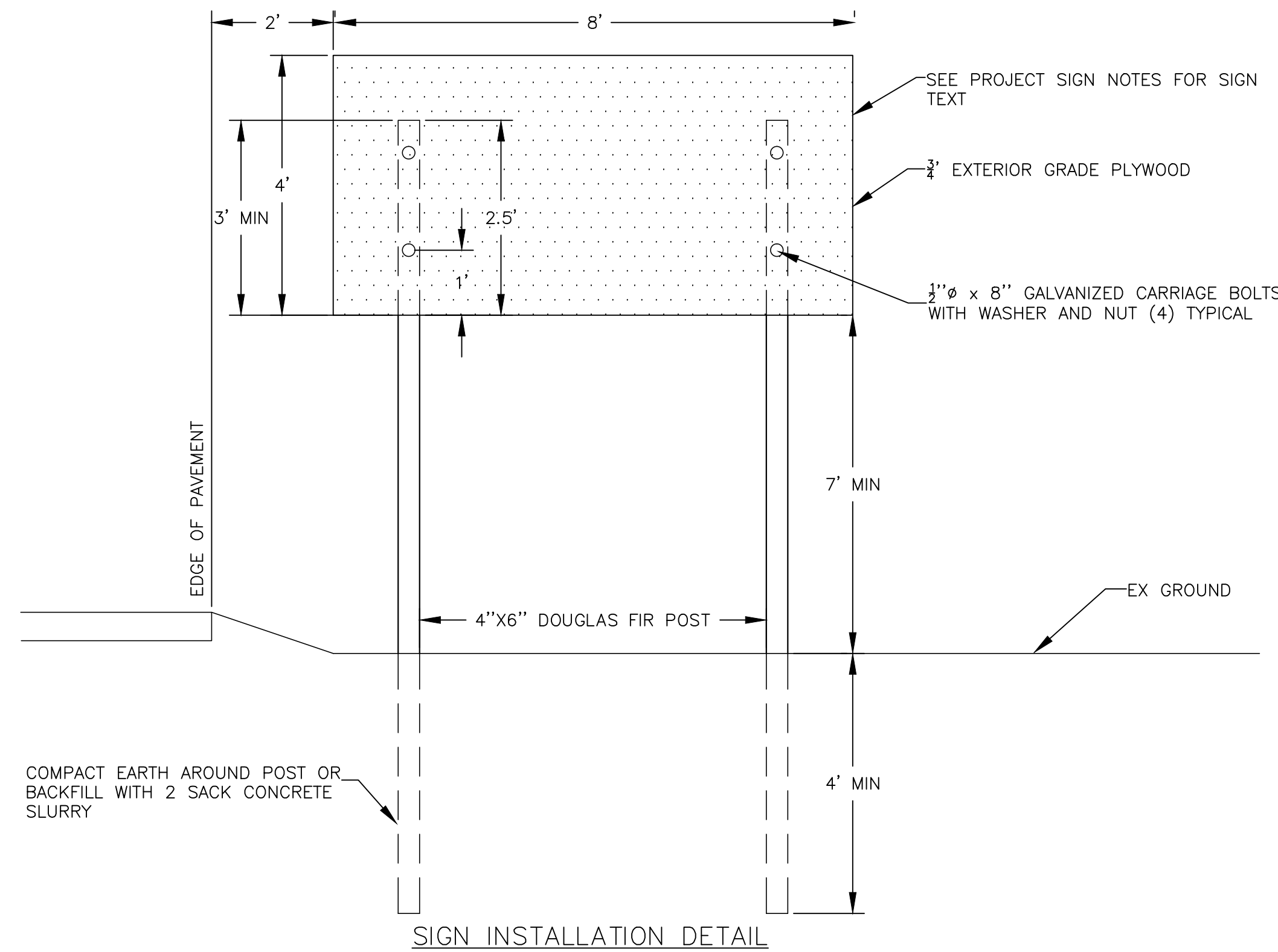
- NOTES:
- FINAL PLANT AND PERENNIAL LOCATIONS TO BE DETERMINED IN FIELD BY REVEGETATION SPECIALIST.
 - SALVAGED WETLAND PLUGS TO BE PLANTED AS DIRECTED BY REVEGETATION SPECIALIST.
 - SEEDS AND CONTAINER PLANTS TO BE SUPPLIED BY NTCO. ALL PLANTS SHALL BE APPROVED/ACCEPTED BY CONTRACTOR. SEE CIVIL ENGINEERING PLANS AND DETAILS FOR CHANNEL STABILIZATION AND GRADING DETAILS.
 - NO TREES OR SHRUBS TO BE PLACED WITHIN LIMITS OF BERM OR AS DIRECTED BY ENGINEER.
 - 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.
 - ALL DISTURBED AREAS TO BE REVEGETATED. ADDITIONAL REVEGETATION IN NORTHERN DRAINAGE AND UPSTREAM IMPROVEMENTS WILL BE AS DIRECTED BY ENGINEER AND PER SPECIFICATION



DESIGNED/DRAWN	MCP/MBG
CHECKED	MCK
DATE	05/13/2016
SCALE	AS SHOWN
PROJECT	BCC

SIGN NOTES:

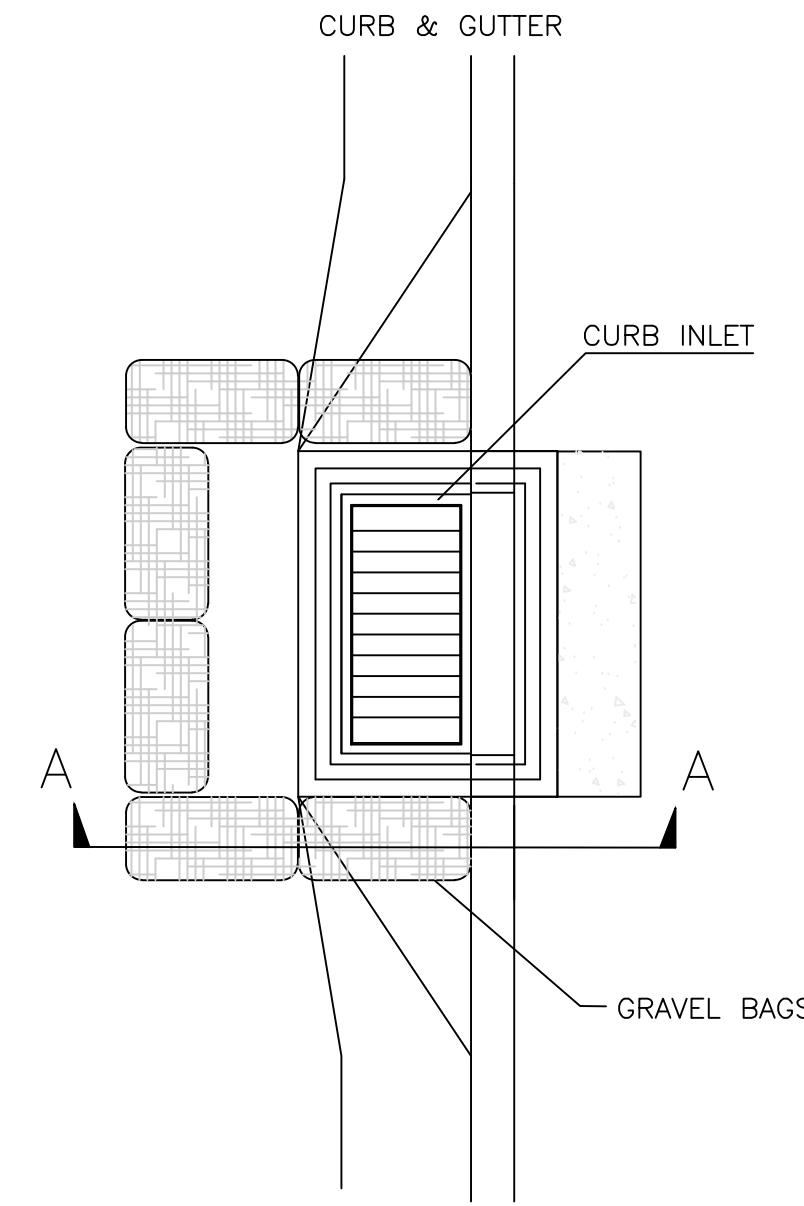
1. CONTRACTOR SHALL CONTACT NCD FOR THE LETTER FONT, STYLE, SIZE, SPACING, AND GRAPHIC ART. SIGN MAY BE ADJUSTED BY THE CONTRACTOR AS NEEDED TO CREATE THE HIGHEST QUALITY CRAFTSMANSHIP DISPLAYED BY THE FINISHED PRODUCT.
2. LOCATION AS DIRECTED BY ENGINEER.



TEMPORARY PROJECT SIGN

SCALE: N.T.S.

1
D-1

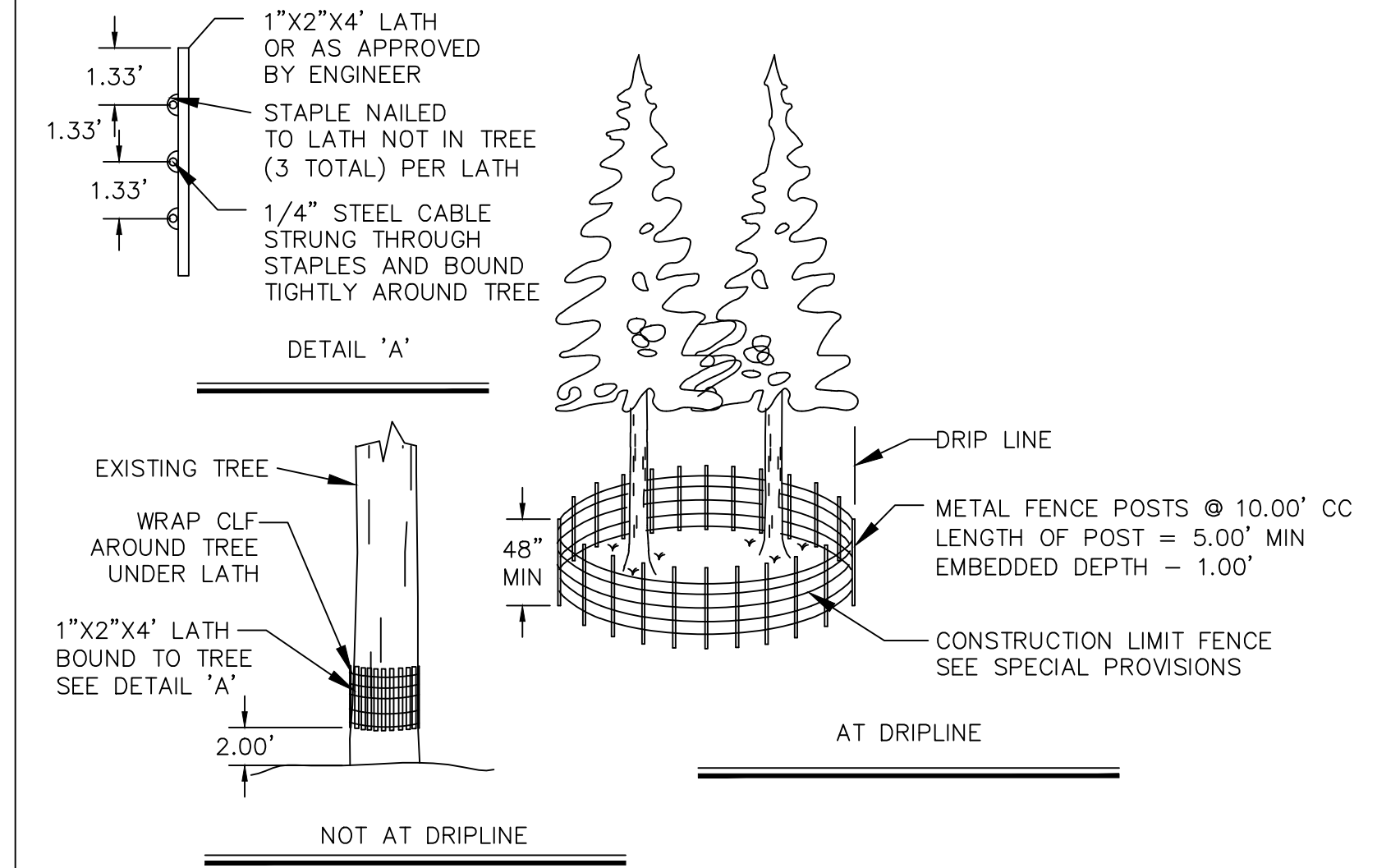


SECTION A-A

DRAINAGE INLET PROTECTION

SCALE: N.T.S.

2
D-1



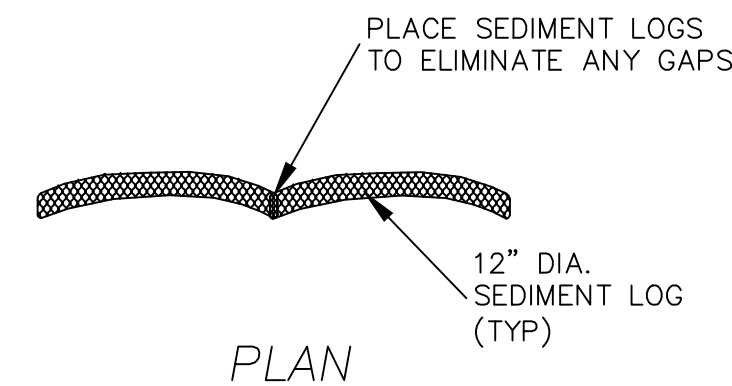
NOTE:

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.

CONSTRUCTION LIMIT AND TREE PROTECTION FENCING

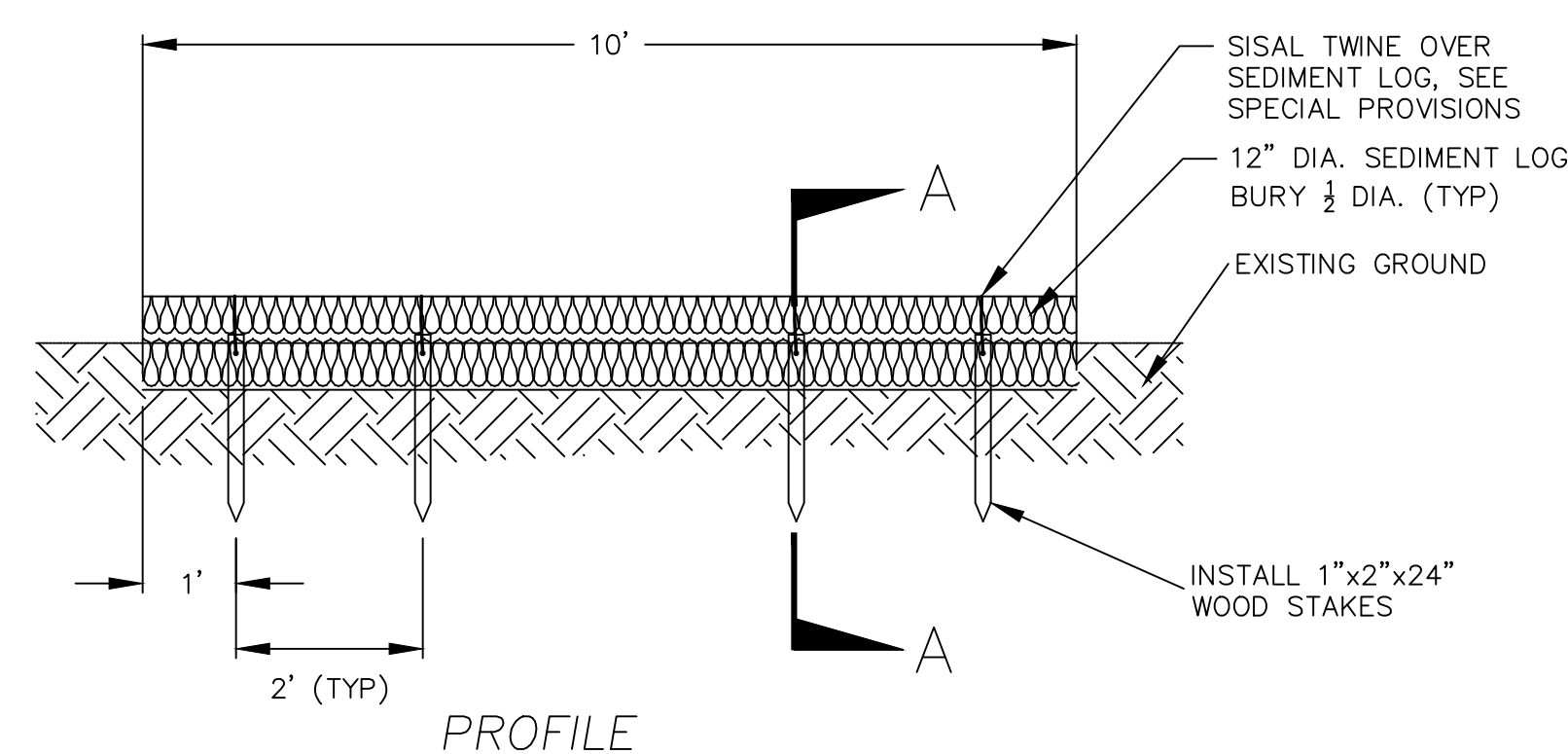
NOT TO SCALE

3
D-1



NOTES:

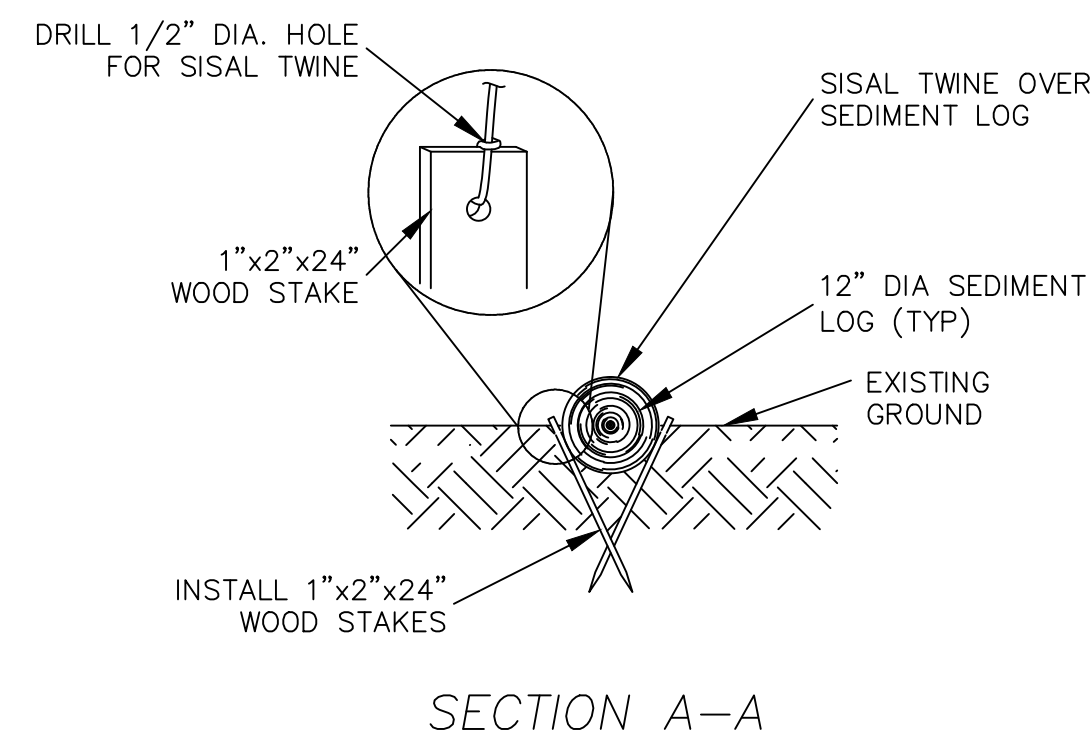
1. PLACEMENT OF SEDIMENT LOGS IS SUBJECT TO EXISTING CONDITIONS. FINAL LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. SEE SPECIAL PROVISIONS FOR SPECIFICATIONS REGARDING SEDIMENT LOG MATERIAL REQUIREMENTS.
3. WEIGHTED SEDIMENT LOGS MAY BE NECESSARY ON PAVED AREAS.



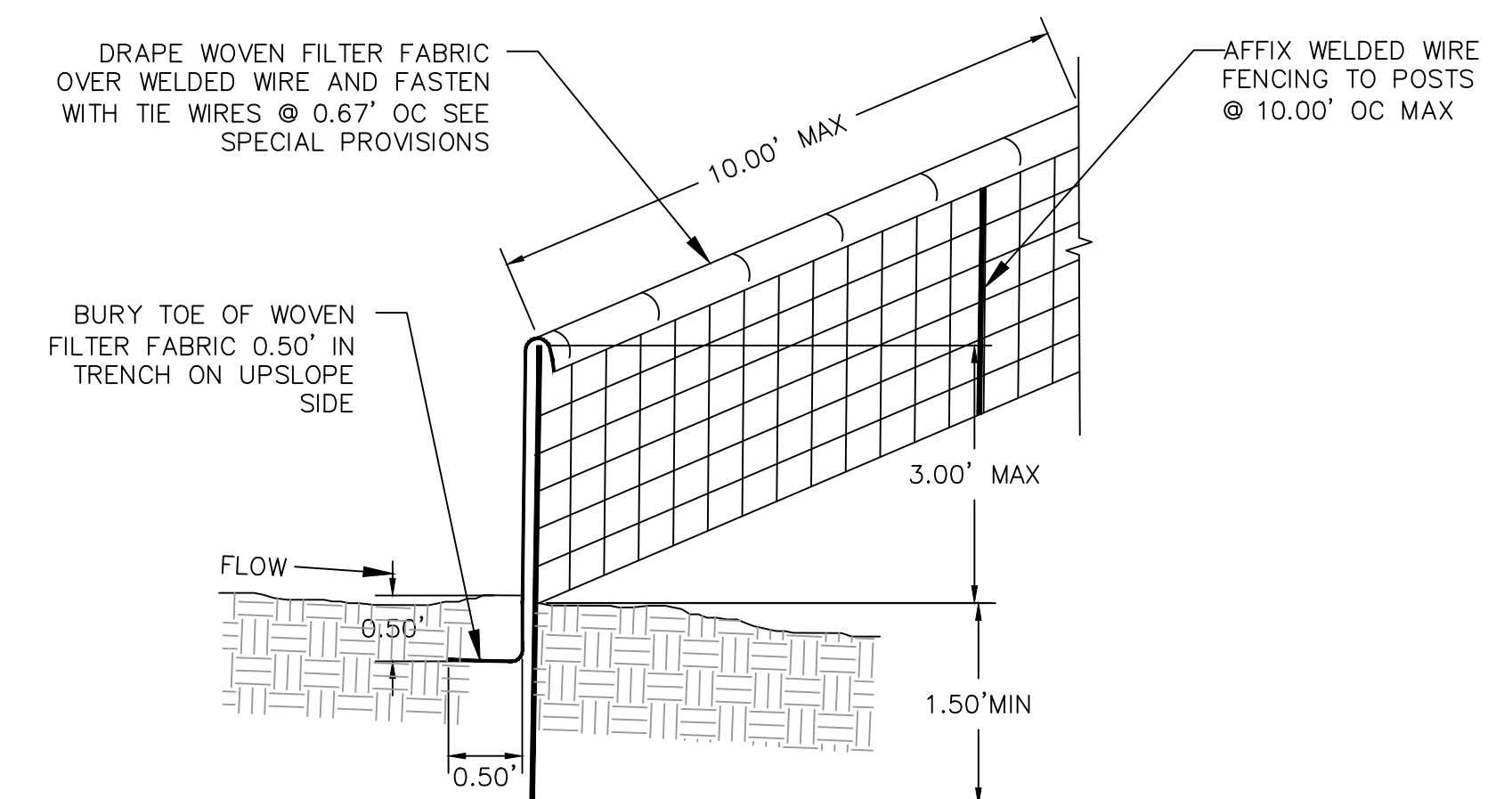
SEDIMENT ROLL (COIR LOG)

NOT TO SCALE

4
D-1



SECTION A-A

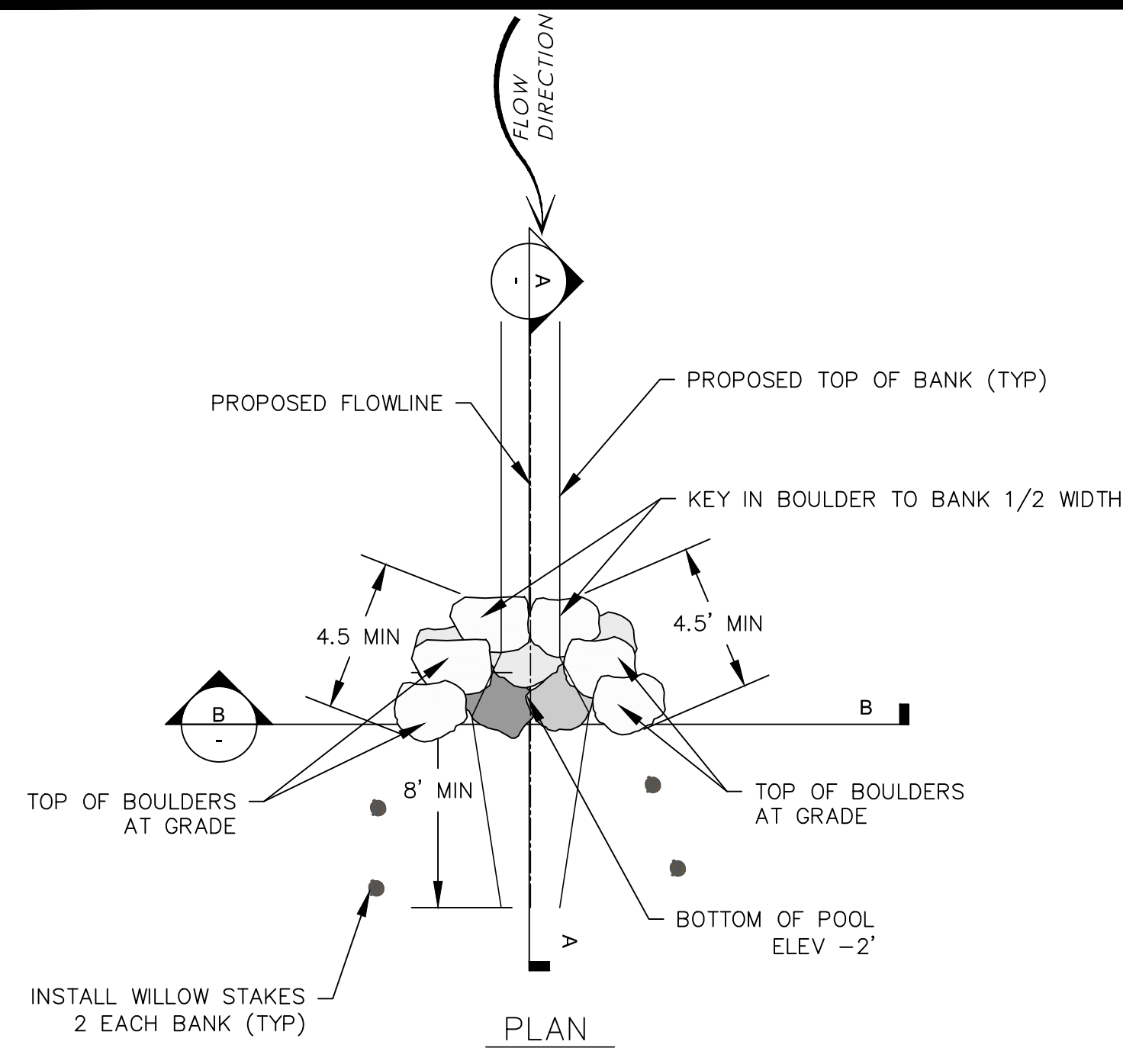


1. CONTRACTOR MAY USE PRE MANUFACTURED SEDIMENT CONTROL FENCE AS APPROVED BY TRPA. SEE SPECIAL PROVISIONS.
2. PLACE FENCING SUCH THAT STORM RUNOFF CANNOT PASS AROUND OR UNDER FENCE

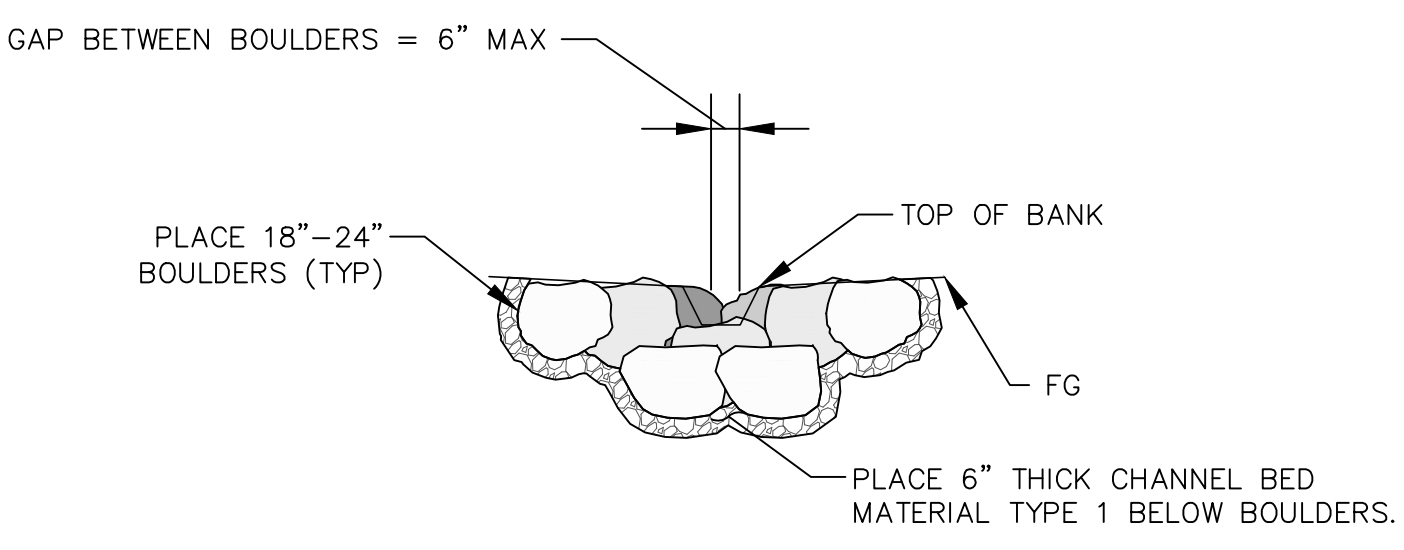
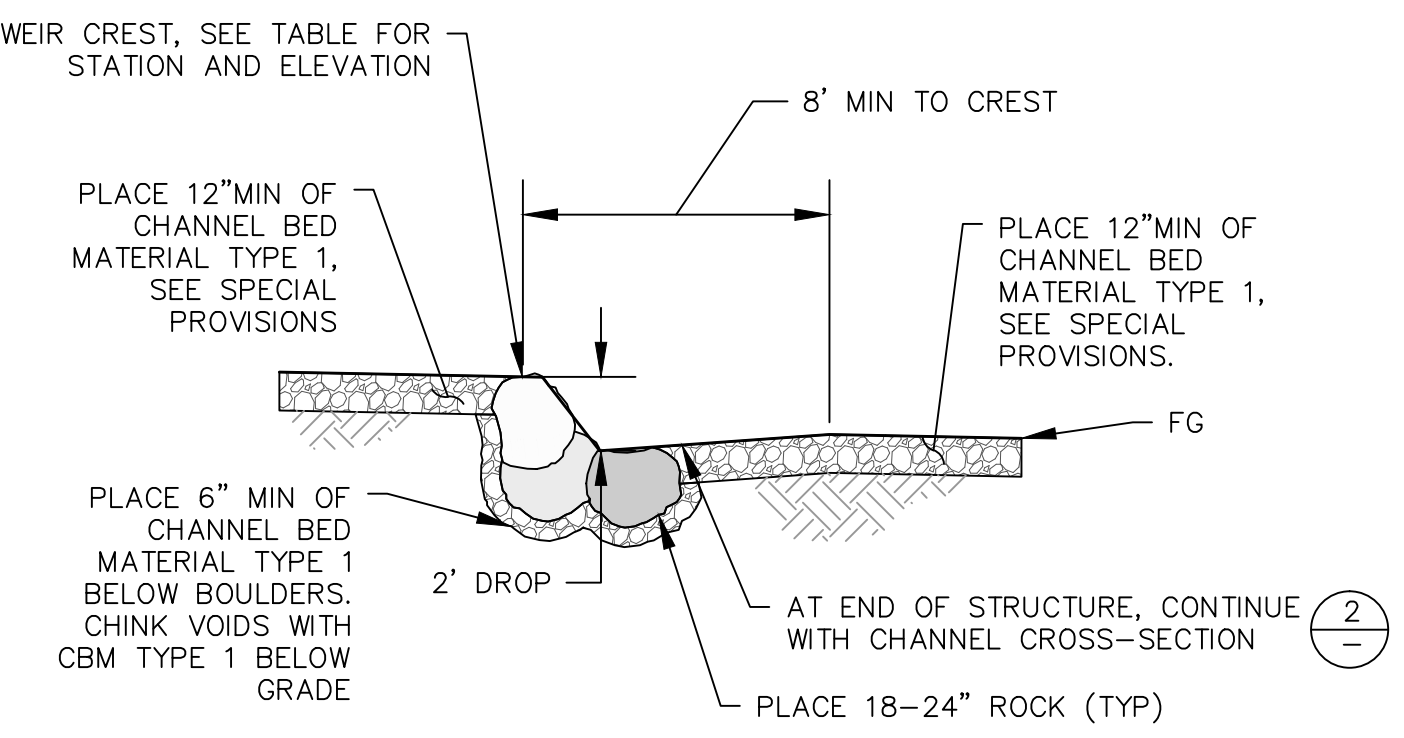
FILTER FENCE

NOT TO SCALE

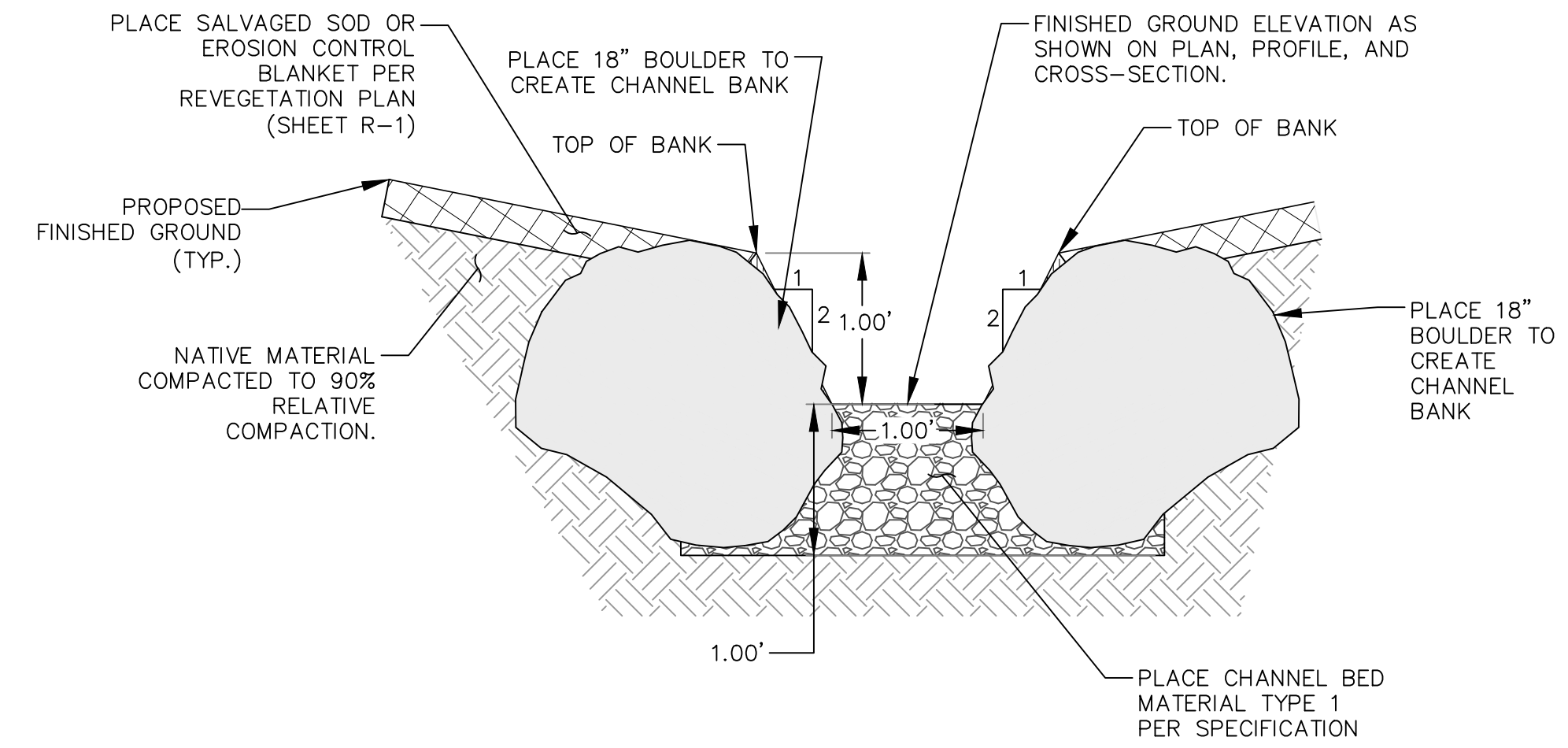
5
D-1



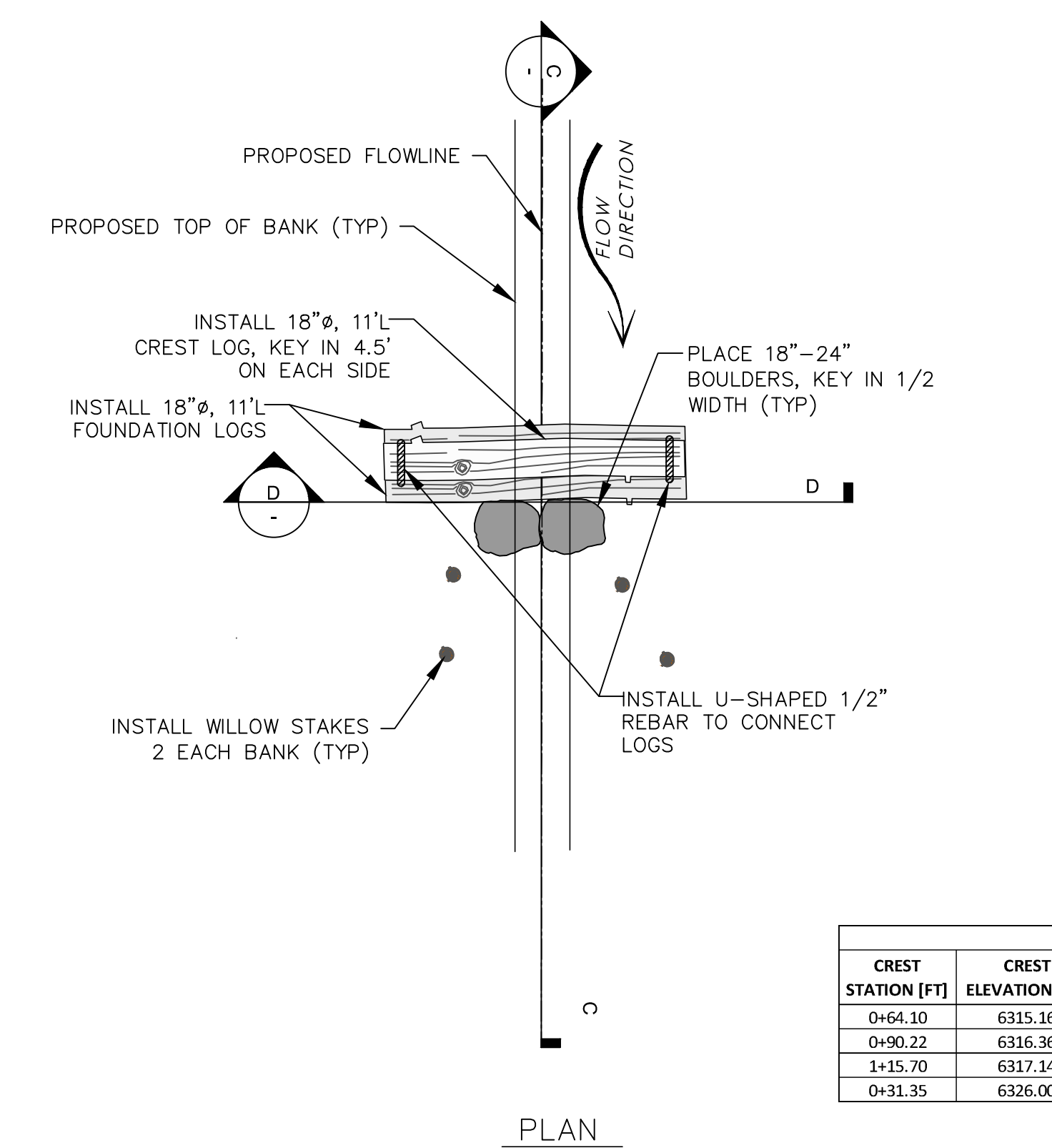
BOULDER STEP POOLS					
CREST STATION [FT]	CREST ELEVATION [FT]	POOL LENGTH [FT]	OVERALL DROP [FT]	ASSOCIATED CHORD/LINE	MAIN OR SIDE CHANNEL
0+22.97	6316.24	8.22	1.0	C1	MAIN
0+79.35	6315.80	8.00	0.5	C3	MAIN
1+36.38	6317.87	9.00	0.5	C5	MAIN
1+46.84	6319.40	9.00	1.5	C5	MAIN
1+55.56	6320.91	8.00	1.5	C6	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



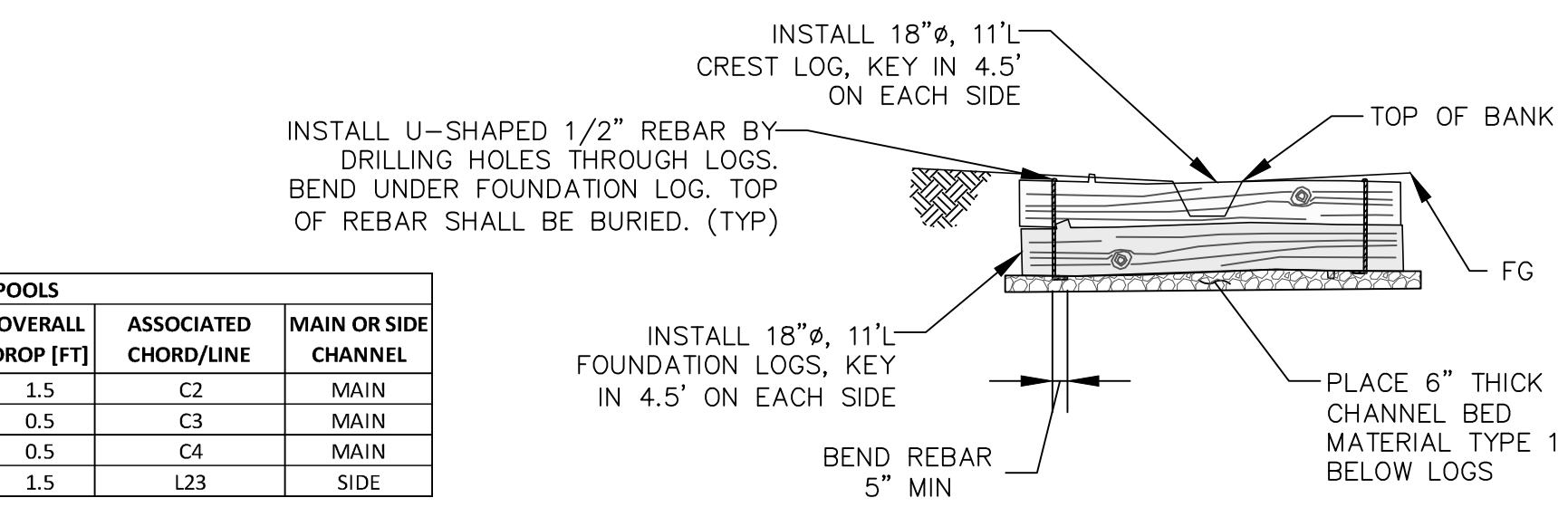
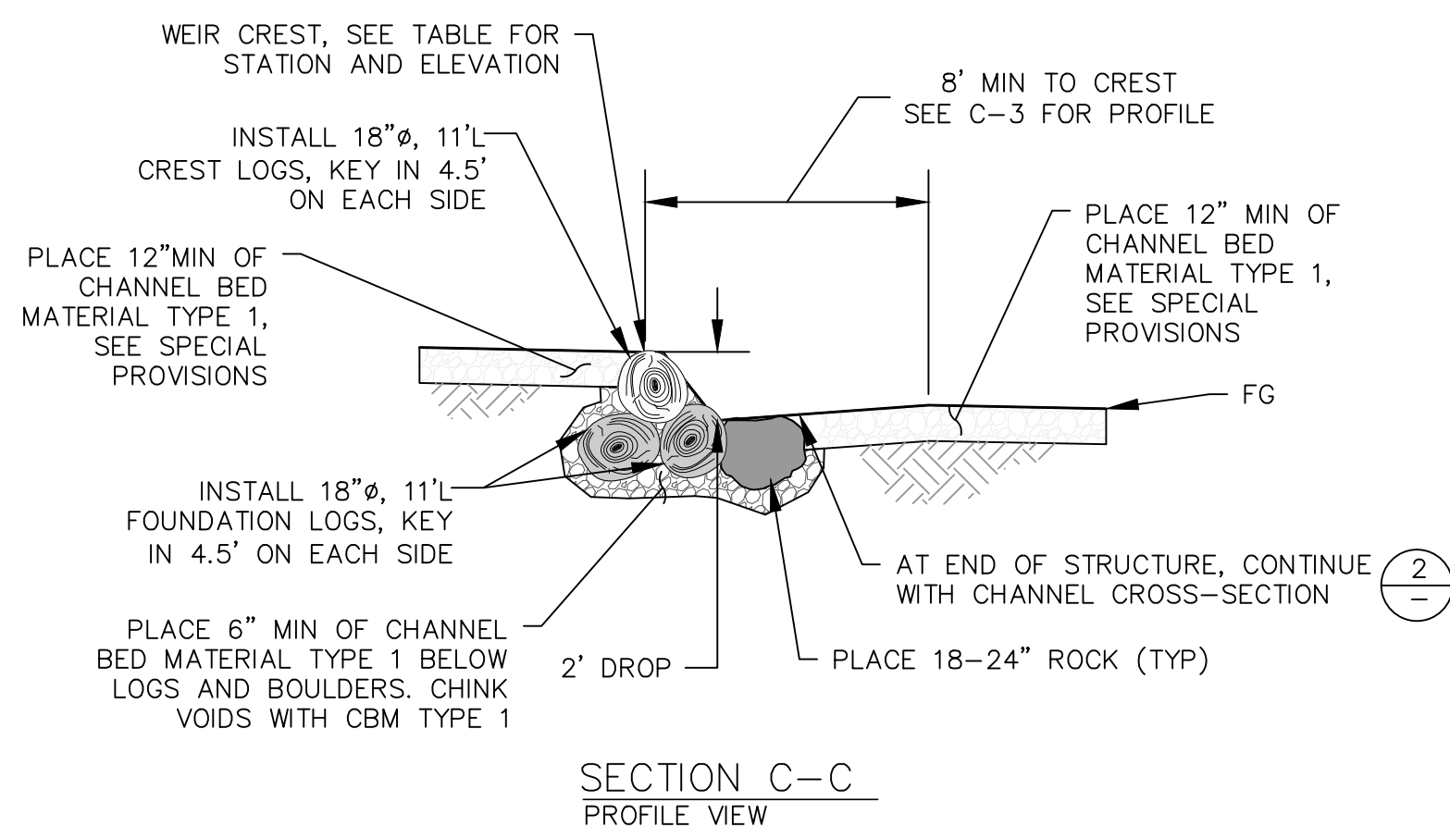
BOULDER STEP POOL
 SCALE: 1" = 5'
 1 D-2



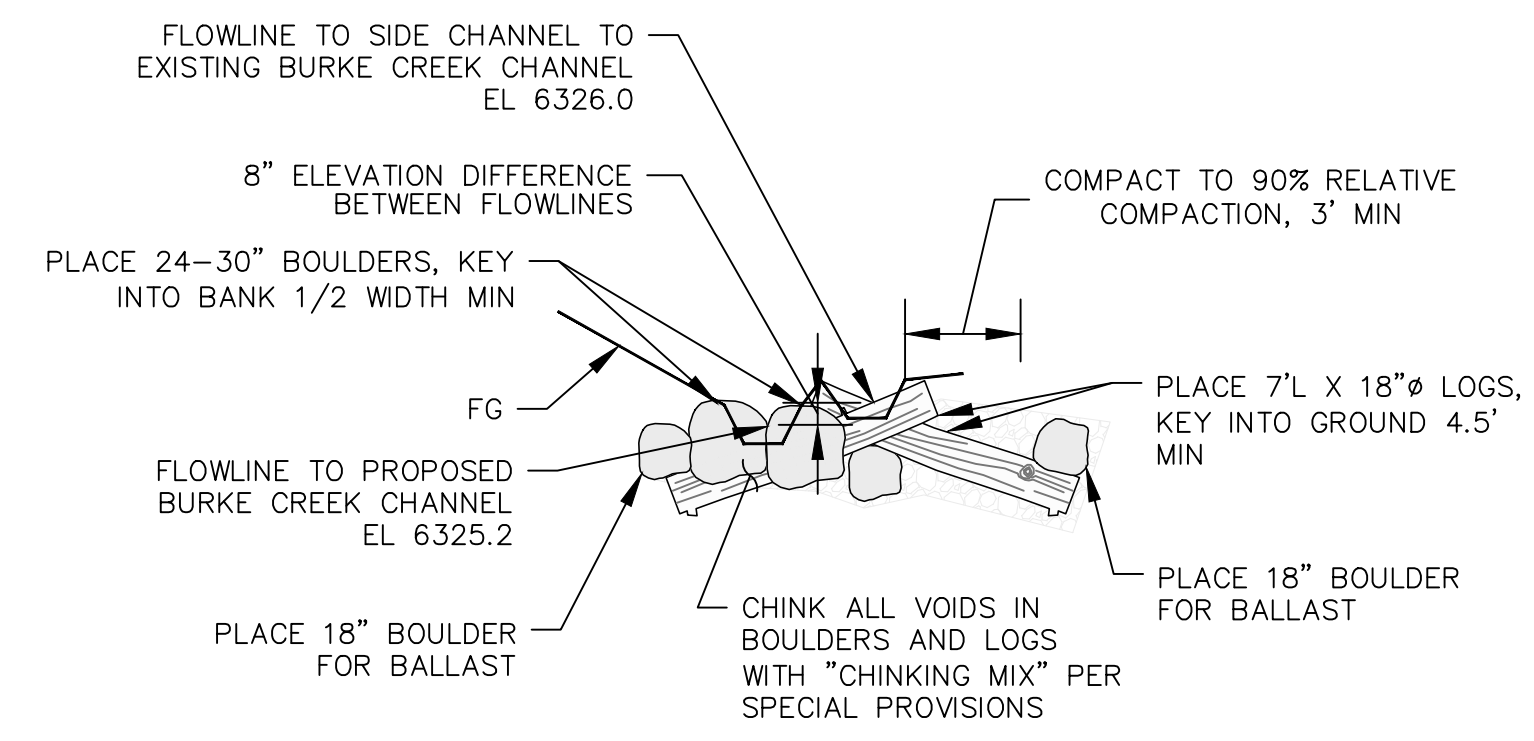
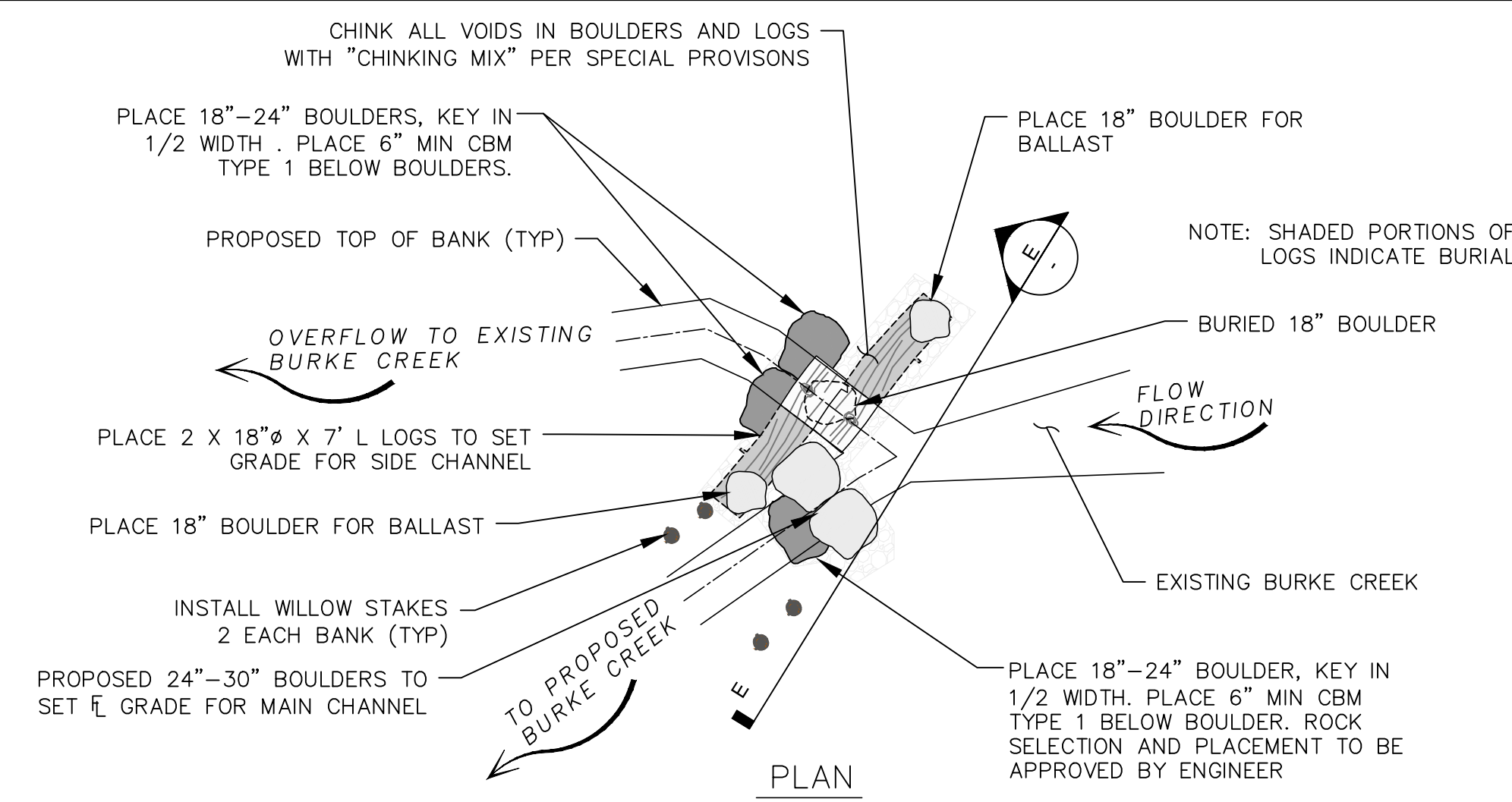
CHANNEL CROSS-SECTION
 SCALE: 1" = 1'
 2 D-2



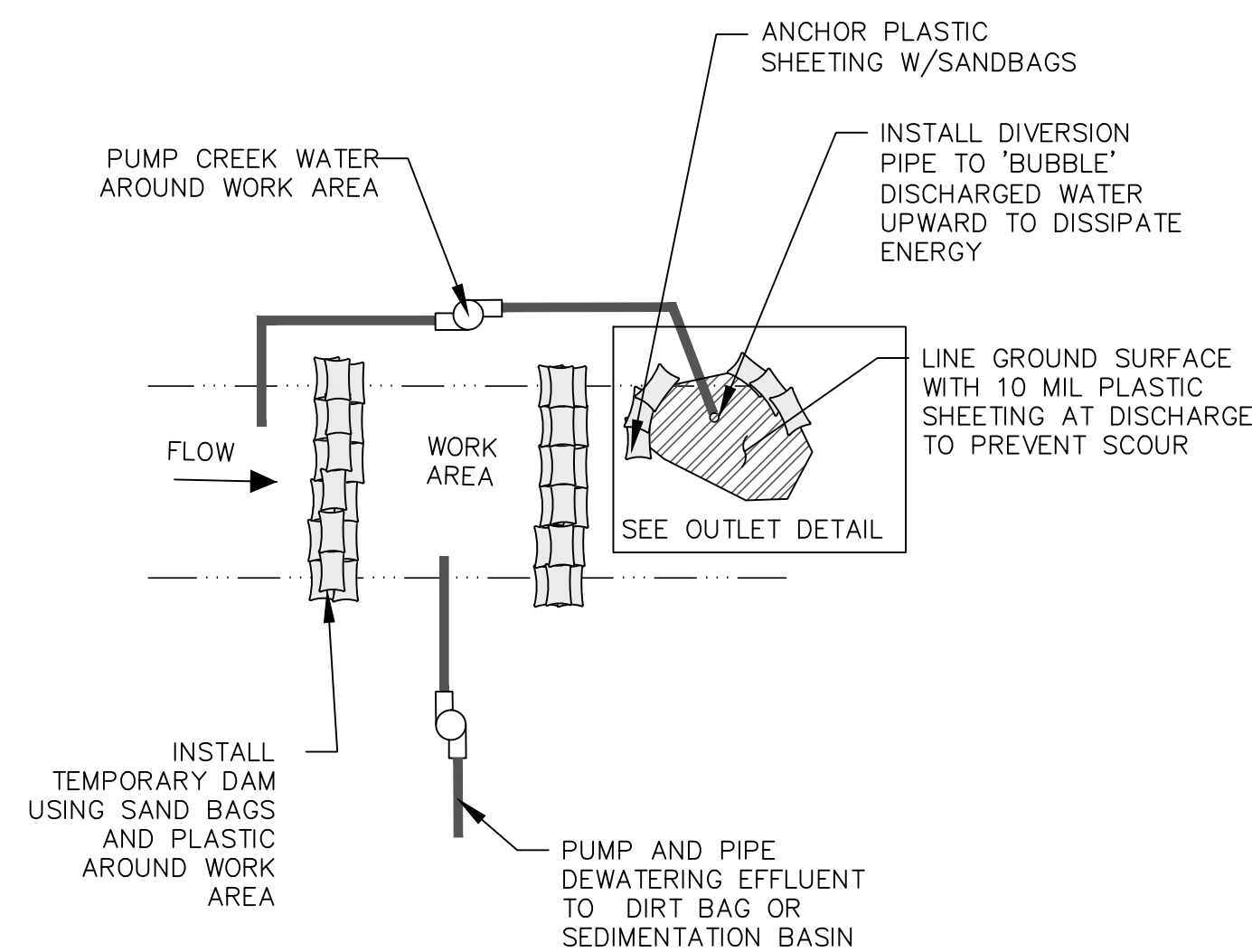
LOG STEP POOLS					
CREST STATION [FT]	CREST ELEVATION [FT]	POOL LENGTH [FT]	OVERALL DROP [FT]	ASSOCIATED CHORD/LINE	MAIN OR SIDE CHANNEL
0+64.10	6315.16	23.53	1.5	C2	MAIN
0+90.22	6316.36	8.00	0.5	C3	MAIN
1+15.70	6317.14	11.69	0.5	C4	MAIN
0+31.35	6326.00	10.32	1.5	L23	SIDE



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



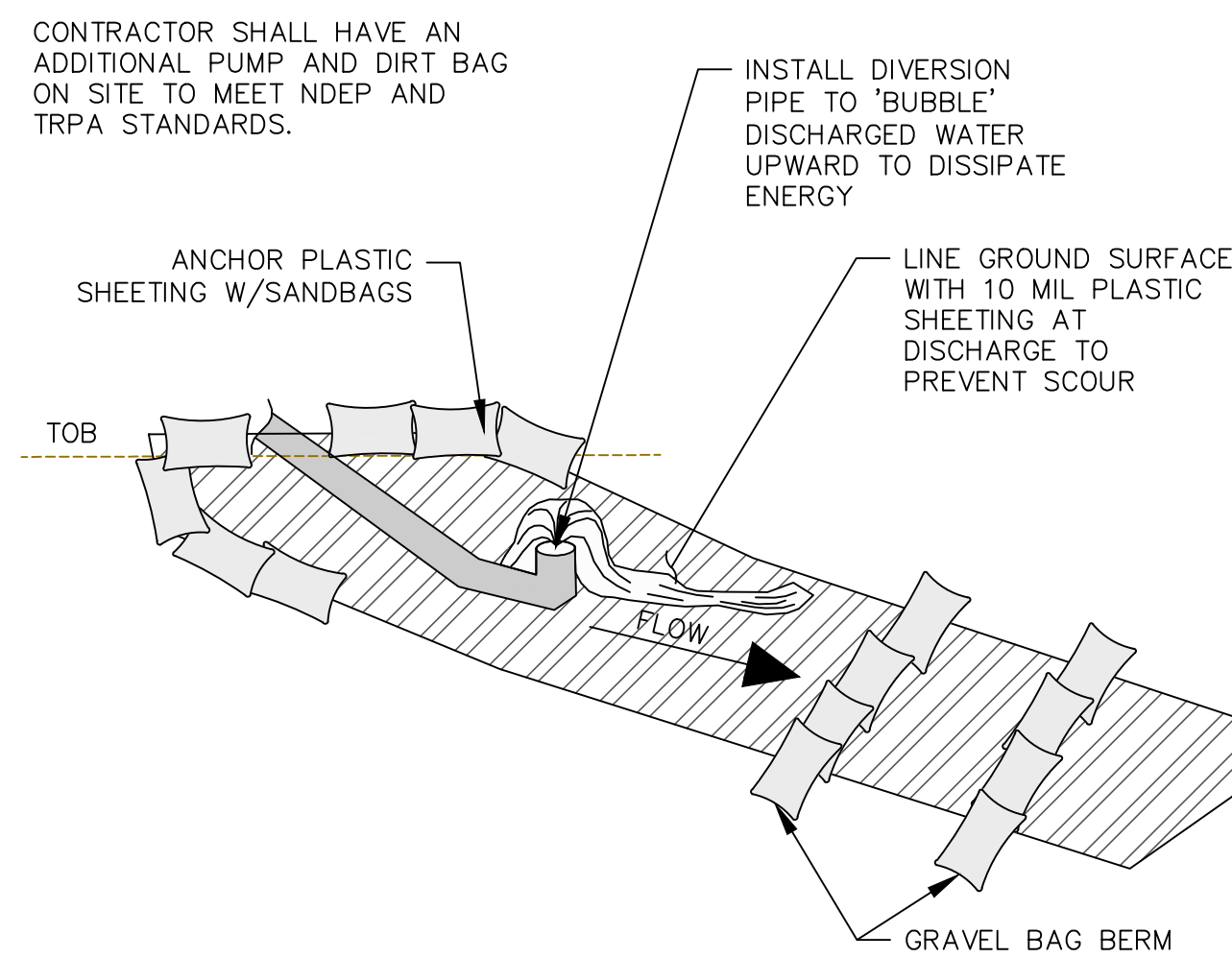
CHANNEL TIE-IN WITH FLOW SPLIT
 NOT TO SCALE
 4 D-2



DIVERSION AND DEWATERING PLAN

DIVERSION NOTES:

1. SEE DRAFT SWPPP AND SPECIFICATIONS FOR PRELIMINARY DEWATERING AND DIVERSION PLAN.
2. CONTRACTOR RESPONSIBLE TO FINALIZE SWPPP AND DEWATERING AND DIVERSION PLAN. CONTRACTOR RESPONSIBLE FOR GAINING FINAL APPROVALS FOR CONSTRUCTION METHODS FOR DIVERSION AND DEWATERING FROM ALL APPLICABLE AGENCIES

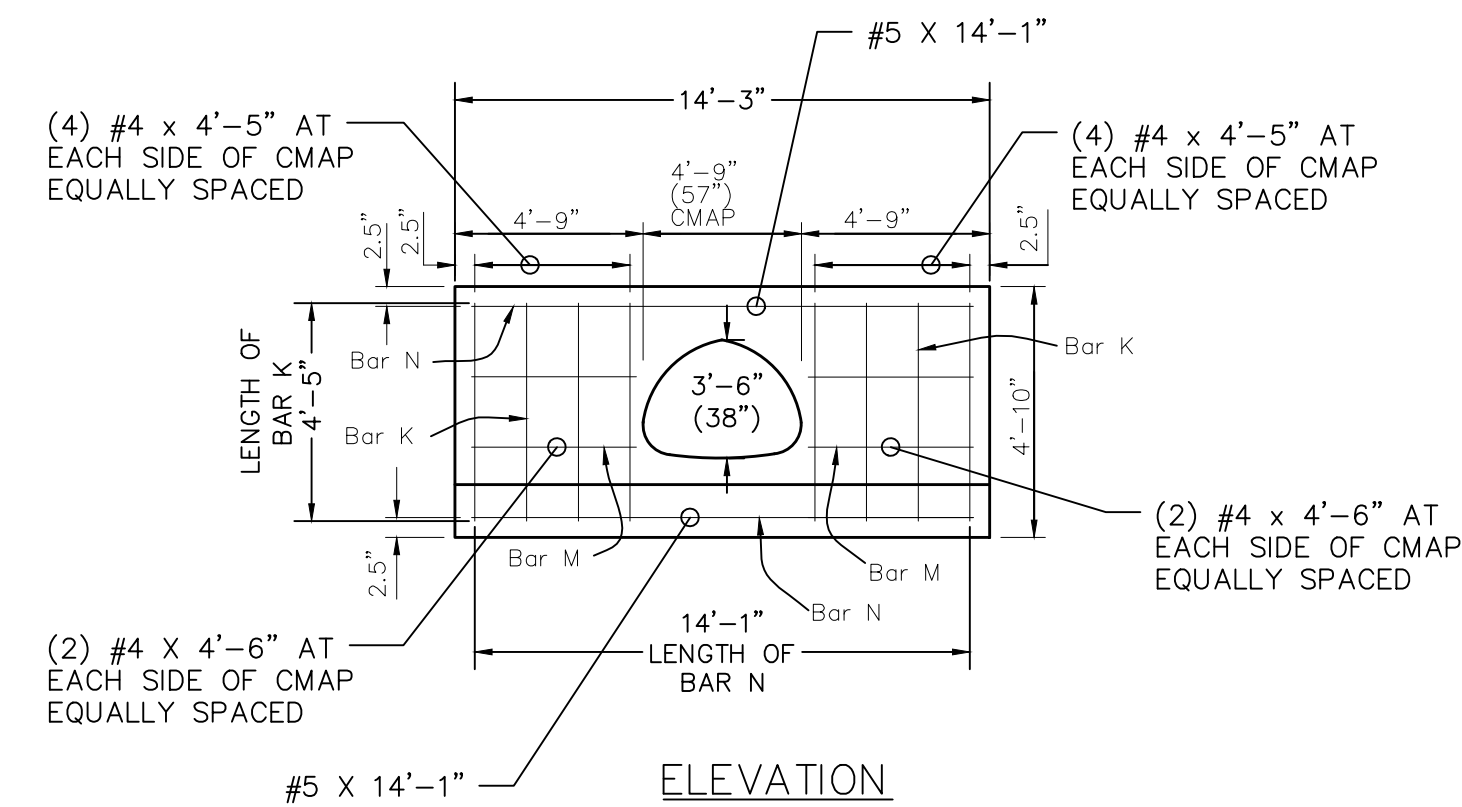


OUTLET DETAIL

EXAMPLE DIVERSION DAM

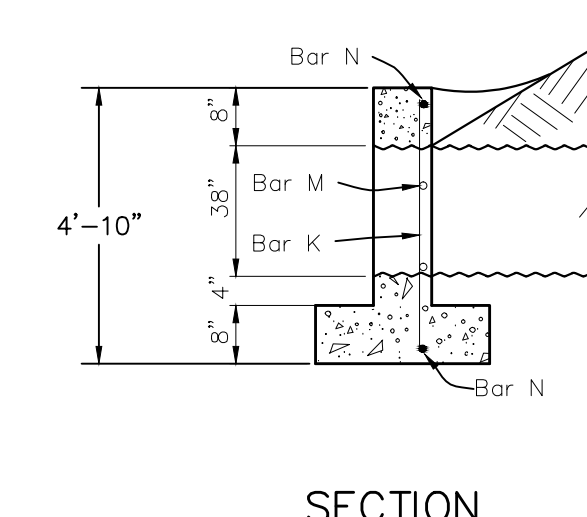
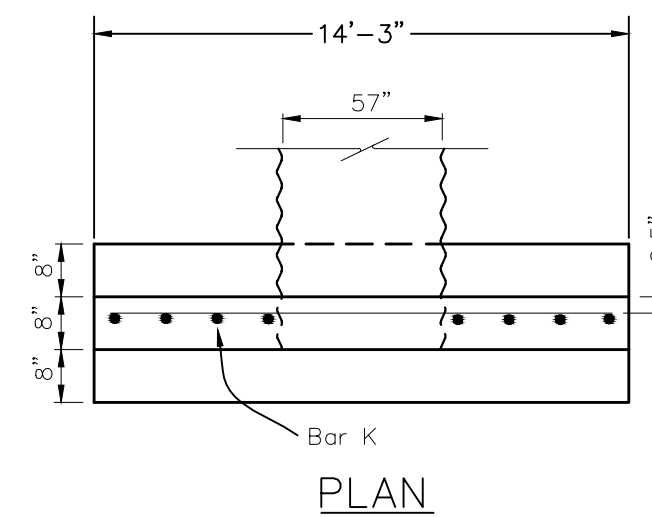
SCALE: N.T.S.

1
D-4



NDOT STANDARD HEADWALL NOTES:

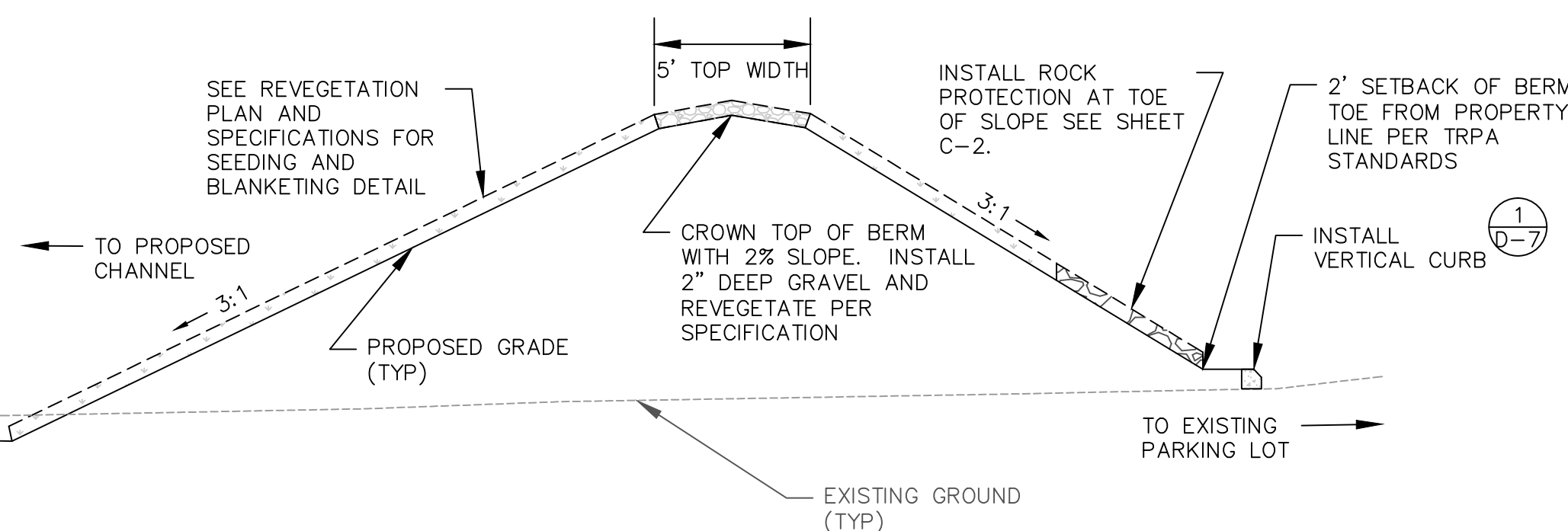
1. CONCRETE SHALL BE NDOT CLASS A OR AA.
2. REINFORCING STEEL SHALL BE DEFORMED BARS WITH MAXIMUM SPACING OF 18" SET 2" CLEAR OF SURFACE OF CONCRETE EXCEPT AS NOTED. BAR ENDS SHALL BE KEPT 1" CLEAR OF SURFACE OF CONCRETE. REINFORCING BARS MAY BE CUT AND BENT IN FIELD.
3. FOOTINGS SHOWN ARE OF MINIMUM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



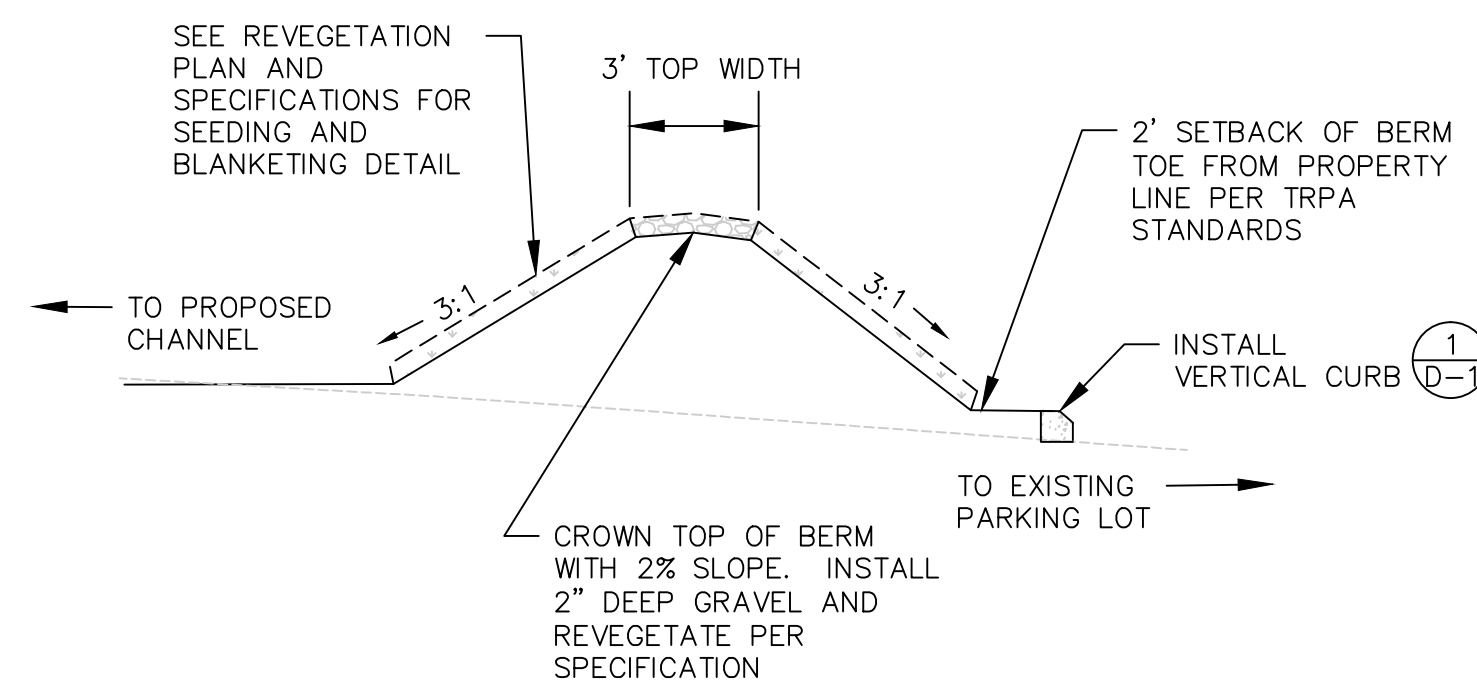
NDOT STANDARD HEADWALL

SCALE: N.T.S.

2
D-4



NORTH-SOUTH TYPICAL BERM SECTION



EAST-WEST TYPICAL BERM SECTION

BERM DETAIL NOTES:

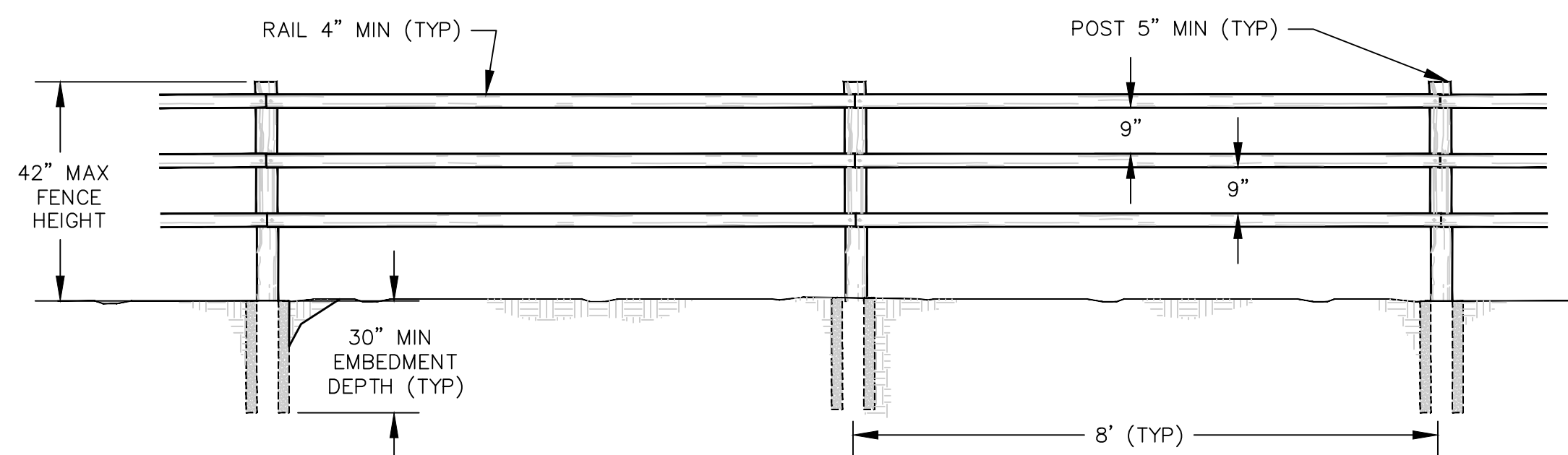
1. BERM SIDE SLOPE TO BE 3:1 AND MAY BE STEEPER TO MEET EXISTING GRADE
2. SEE REVEGETATION PLAN AND SPECIFICATIONS FOR BERM TREATMENTS.
3. COMPACTION THROUGHOUT BERM SHALL BE AT LEAST 90 PERCENT RELATIVE COMPACTION EXCEPT, WHERE FILL DEPTH IS TO BE GREATER THAN 2 FEET, 95 PERCENT RELATIVE COMPACTION WILL BE REQUIRED (ASTM D1557). 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 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

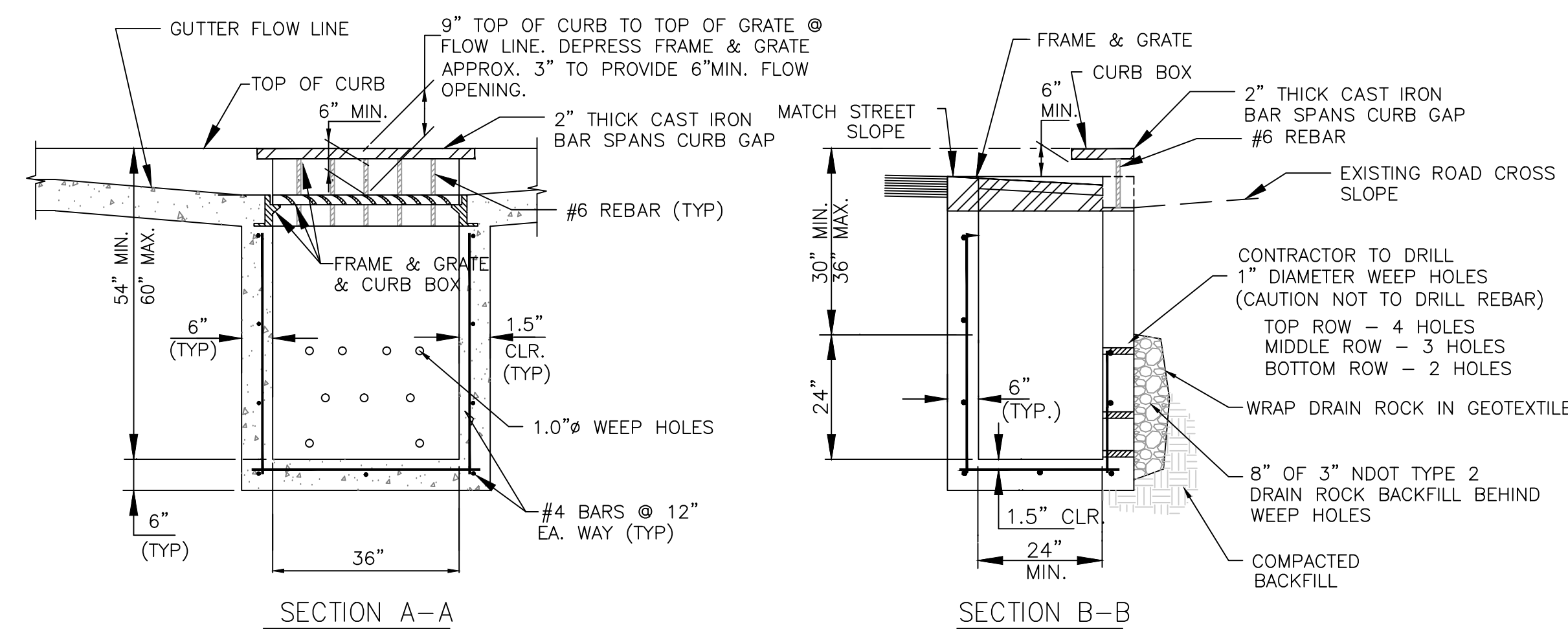
- FENCE NOTES:**
1. FENCE LOCATIONS AS STAKED IN FIELD
 2. PRE-DRILL HOLES FOR FASTENERS TO PREVENT SPLITTING OF BRACING OR POSTS.
 3. COMPACT AND BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENTS



POST AND RAIL FENCE

SCALE: N.T.S.

4
D-4

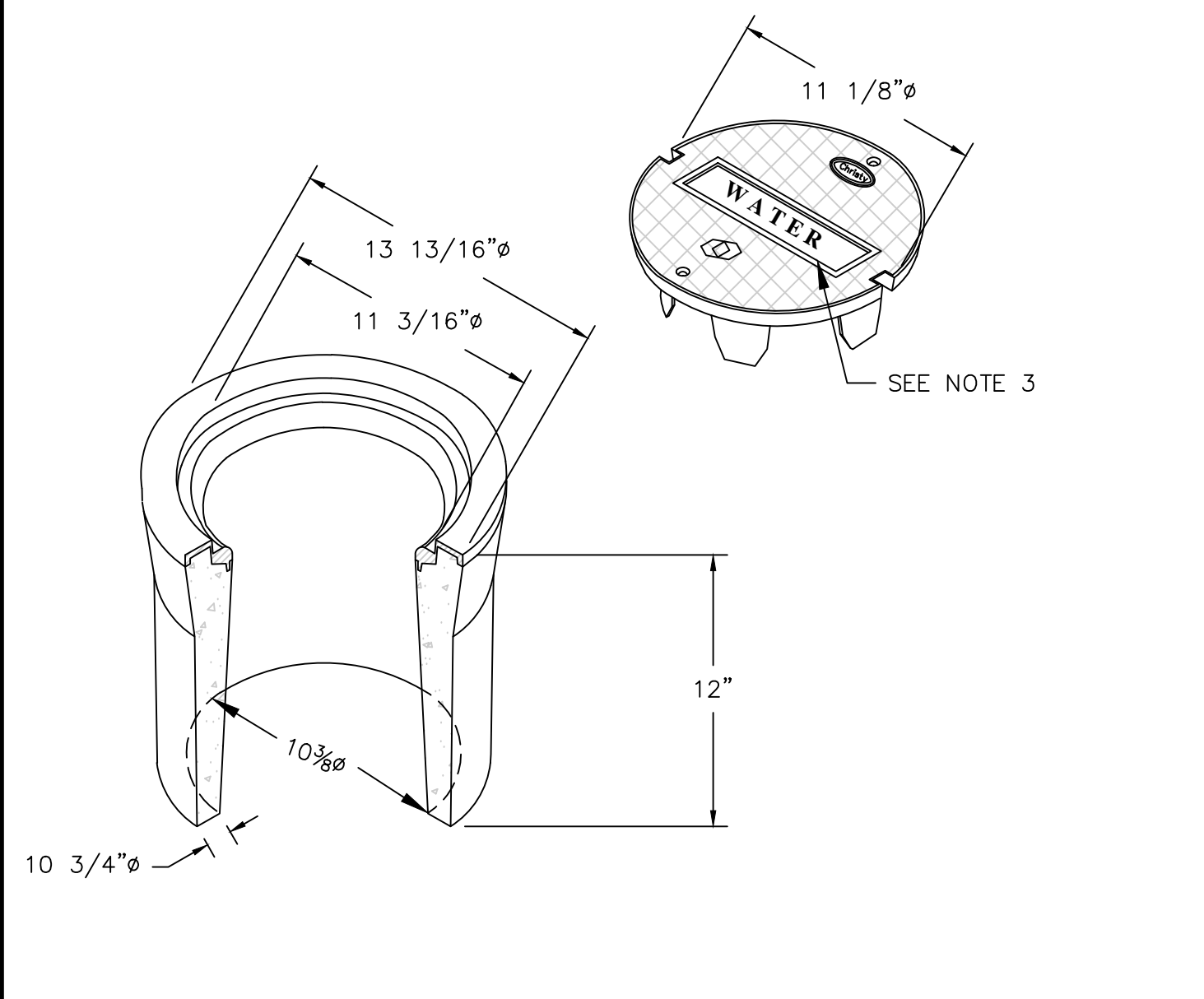


COMBINATION DROP INLET

SCALE: 1" = 2'

5
D-4

DESIGNED/DRAWN	MK/MK
CHECKED	MG
DATE	05/13/2016
SCALE	AS SHOWN
PROJECT	BCC

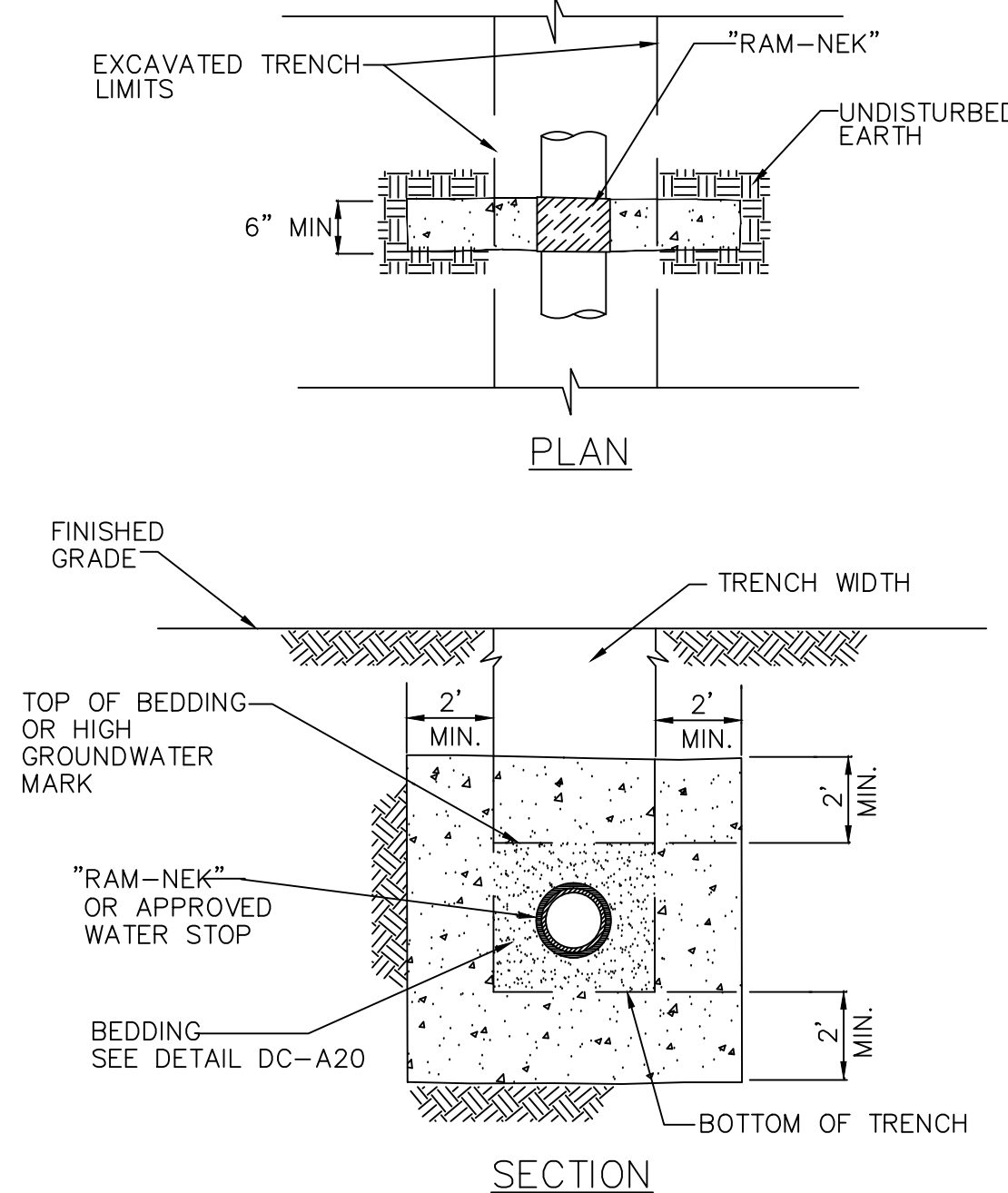


VALVE BOX NOTES:
 1. VALVE BOX MUST BE TRAFFIC RATED (CHRISTY G-5 BOX OR APPROVED EQUAL).
 2. MINIMUM OF 10" INSIDE DIAMETER.
 3. CAST IRON LID MARKED "WATER" FOR WATER LINE APPLICATIONS. CAST IRON LID MARKED "RECLAIMED WATER" OR "ROW" WHEN INSTALLED ON A RECLAIMED WATER MAIN. LID SHALL BE MARKED "SS 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

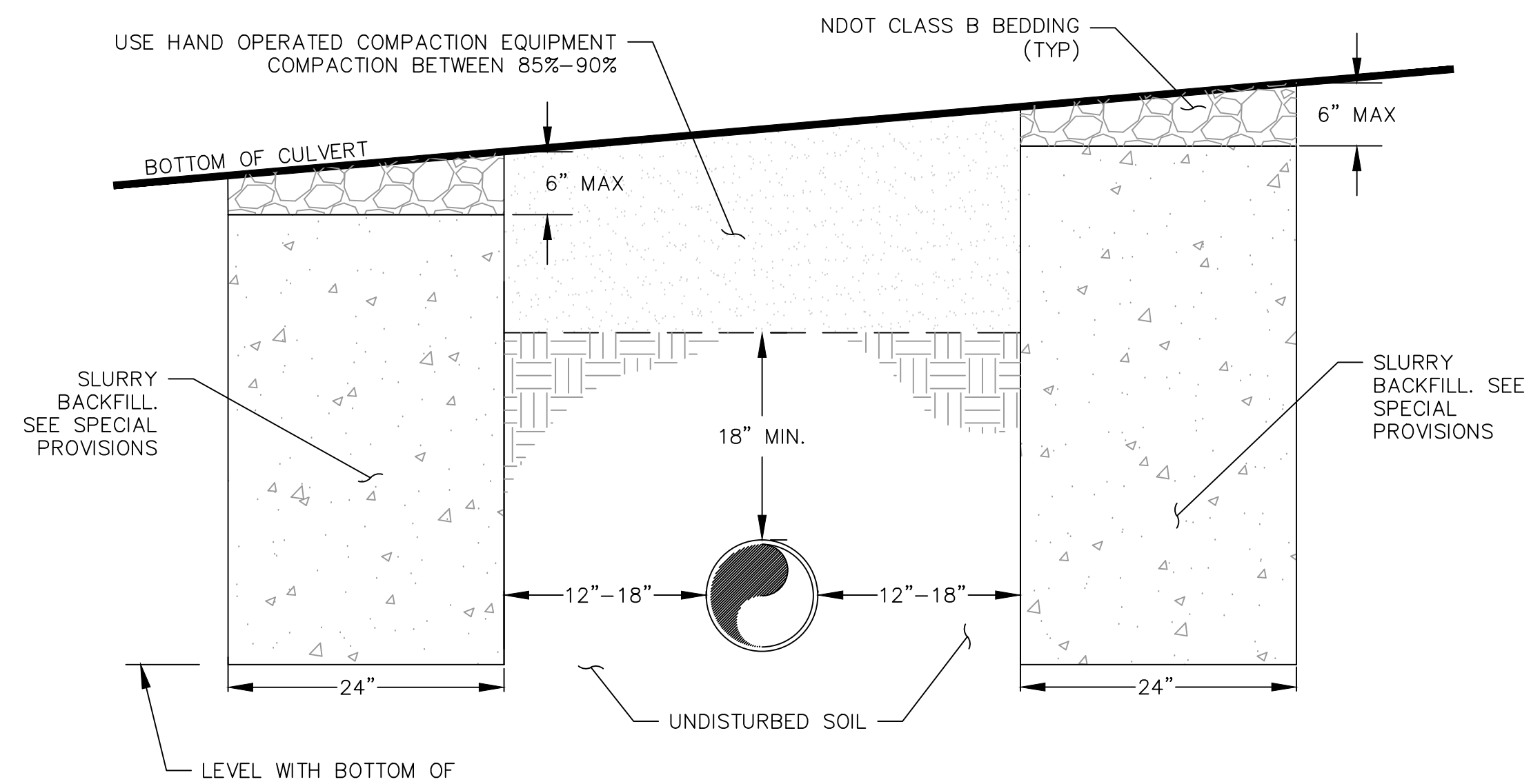


WATER STOP NOTES:
 1. WATER STOPS SHALL BE CONSTRUCTED AT 200' MAXIMUM SPACING IN GROUNDWATER CONDITIONS AND WHERE TYPE "C" BEDDING IS USED, AS DIRECTED BY THE ENGINEERING DIVISION.
 2. WRAP PIPE WITH "RAM-NEK" OR EQUIVALENT WHERE PIPE IS EXPOSED TO CONCRETE PRIOR TO POURING.
 3. USE LIGHT CONCRETE,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

TYPE OF FITTING	90° BEND	45° BEND	11.25° OR 22.5° BEND
TYPICAL INSTALLATION			
TYPE OF FITTING	TEE OR DEAD END	CROSS W/PLUG	TEE W/PLUG
TYPICAL INSTALLATION			

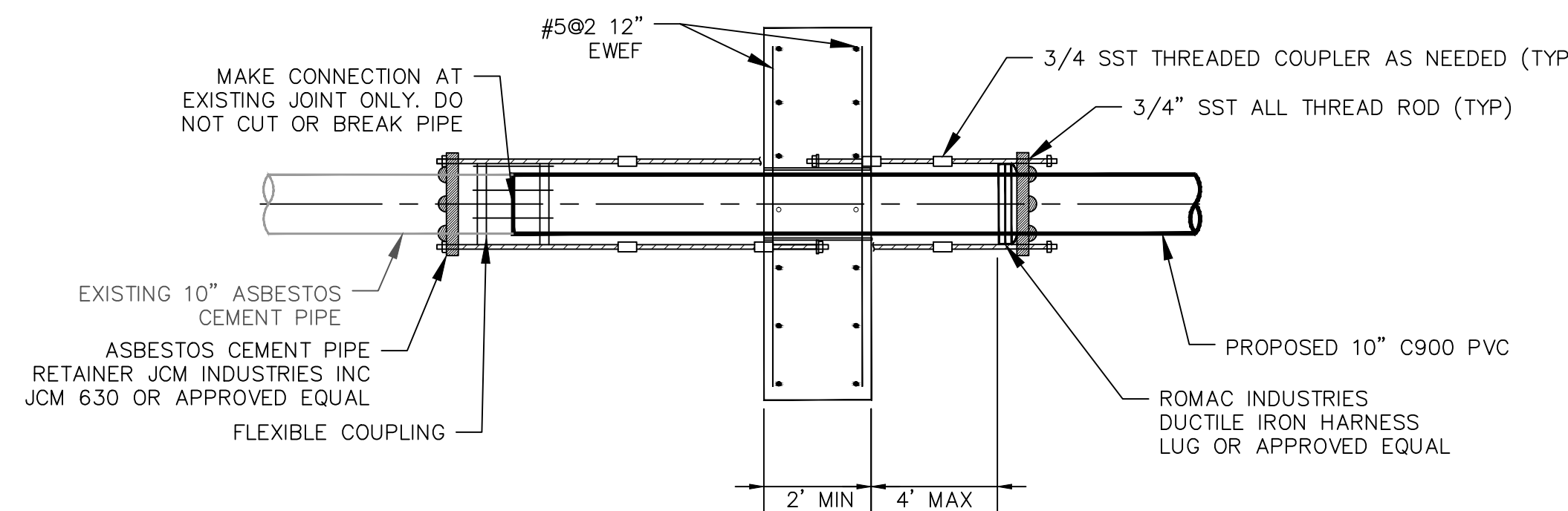
TYPE OF FITTING	90° BEND	45° BEND	11.25° OR 22.5° BEND	TEE OR DEAD END	CROSS W/PLUG	TEE W/PLUG
4"	2	1	1	2	2	2
6"	5	3	2	4	5	5
8"	8	5	3	6	8	8
10"	13	7	4	9	13	13
12"	18	10	5	13	18	18
14"	25	13	7	17	25	25
16"	32	17	9	23	32	32

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.

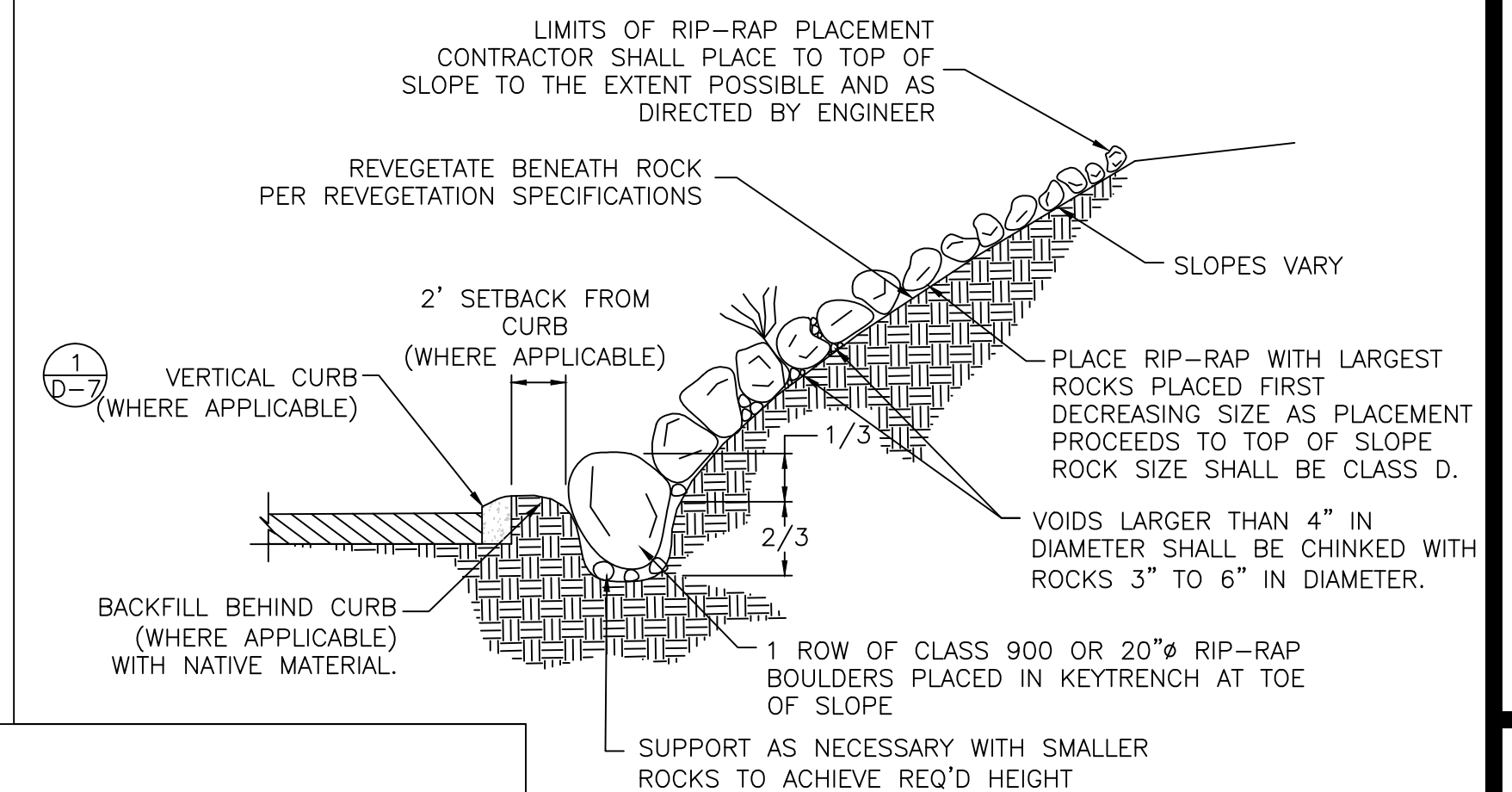
4
D-5



EXISTING AC WATERLINE CONNECTION

SCALE: N.T.S.

5
D-5

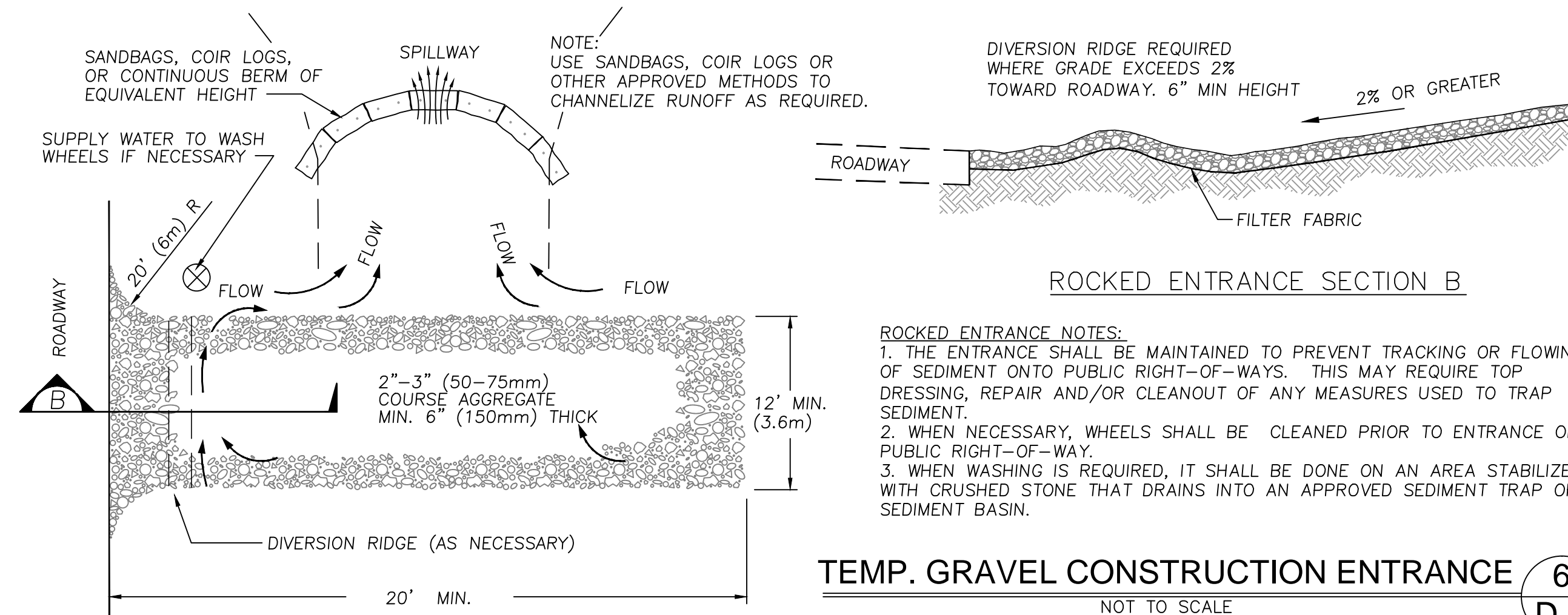


RSP NOTES:
 1. CONTRACTOR SHALL ENCOURAGE THE USE OF ORGANIC MATERIAL REMOVED FROM SLOPES AND GRADING AS A SOURCE OF MULCH FOR REVEGETATION TREATMENT.
 2. CONTRACTOR SHALL ENSURE THAT ROCK SLOPE PROTECTION IS NOT WEIGHT BEARING ON CURB (WHERE APPLICABLE).

ROCK SLOPE PROTECTION

NOT TO SCALE

7
D-5



ROCKED ENTRANCE NOTES:
 1. 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.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 3. 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.

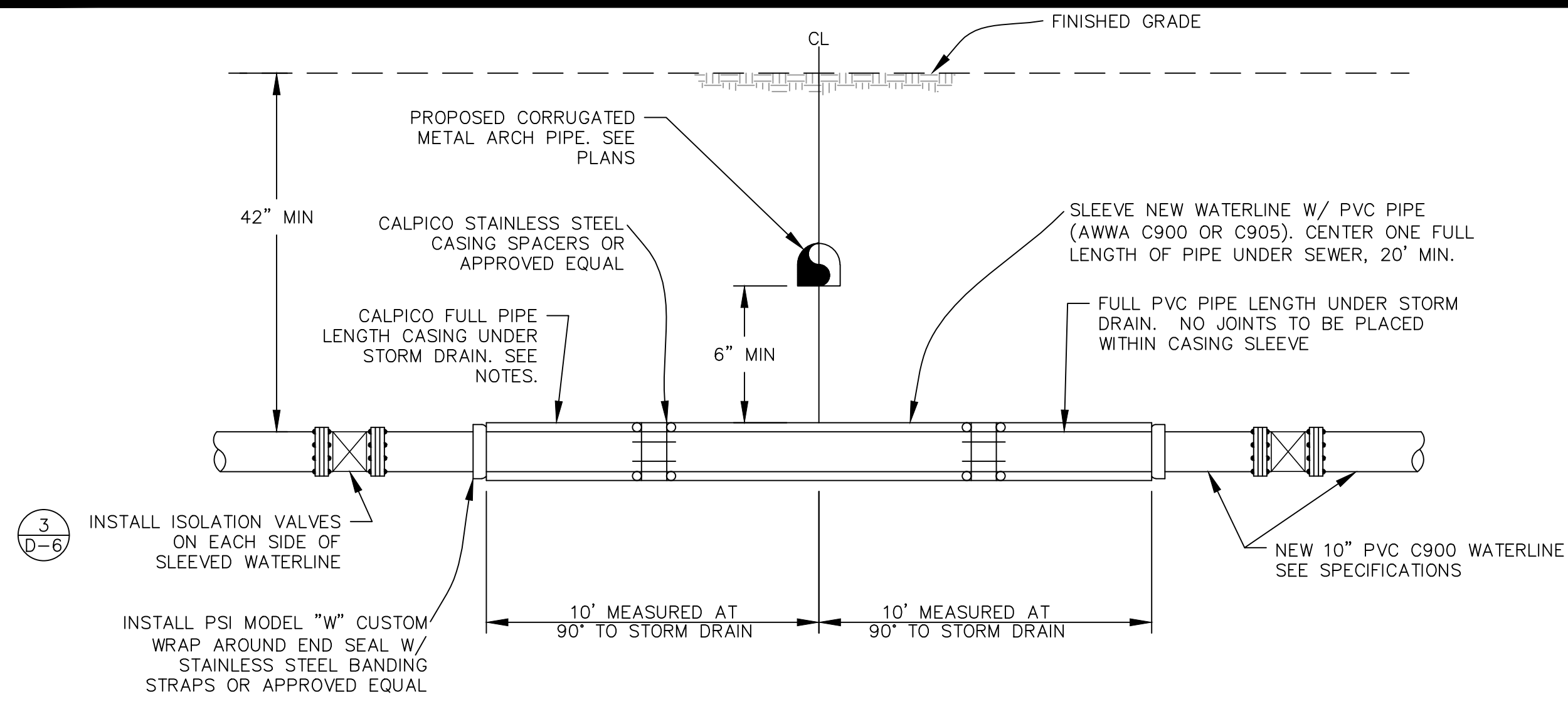
TEMP. GRAVEL CONSTRUCTION ENTRANCE

NOT TO SCALE

6
D-5

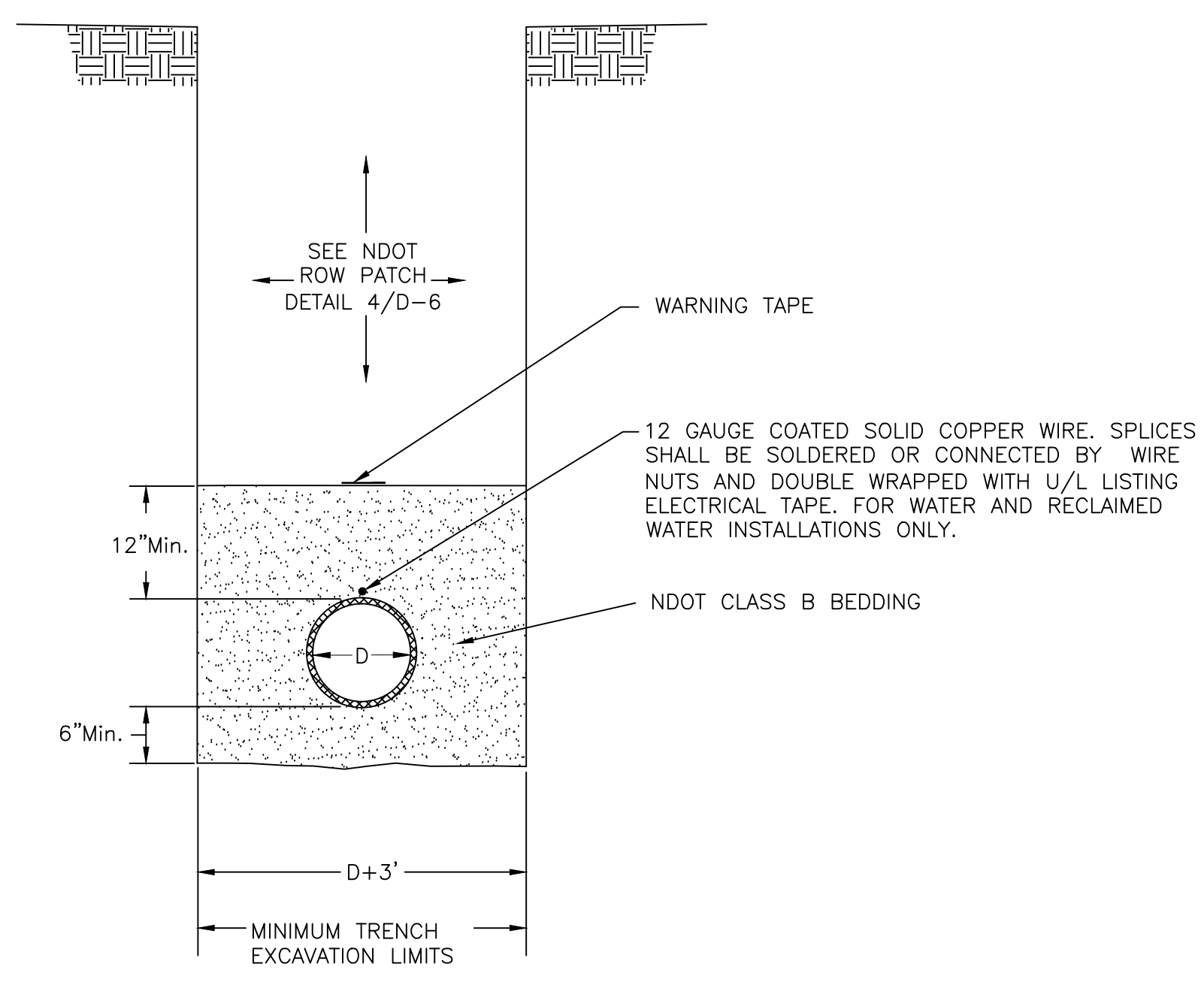


DESIGNED/DRAWN	MK/JB
CHECKED	MG
DATE	05/13/2016
SCALE	AS SHOWN
PROJECT	BCC



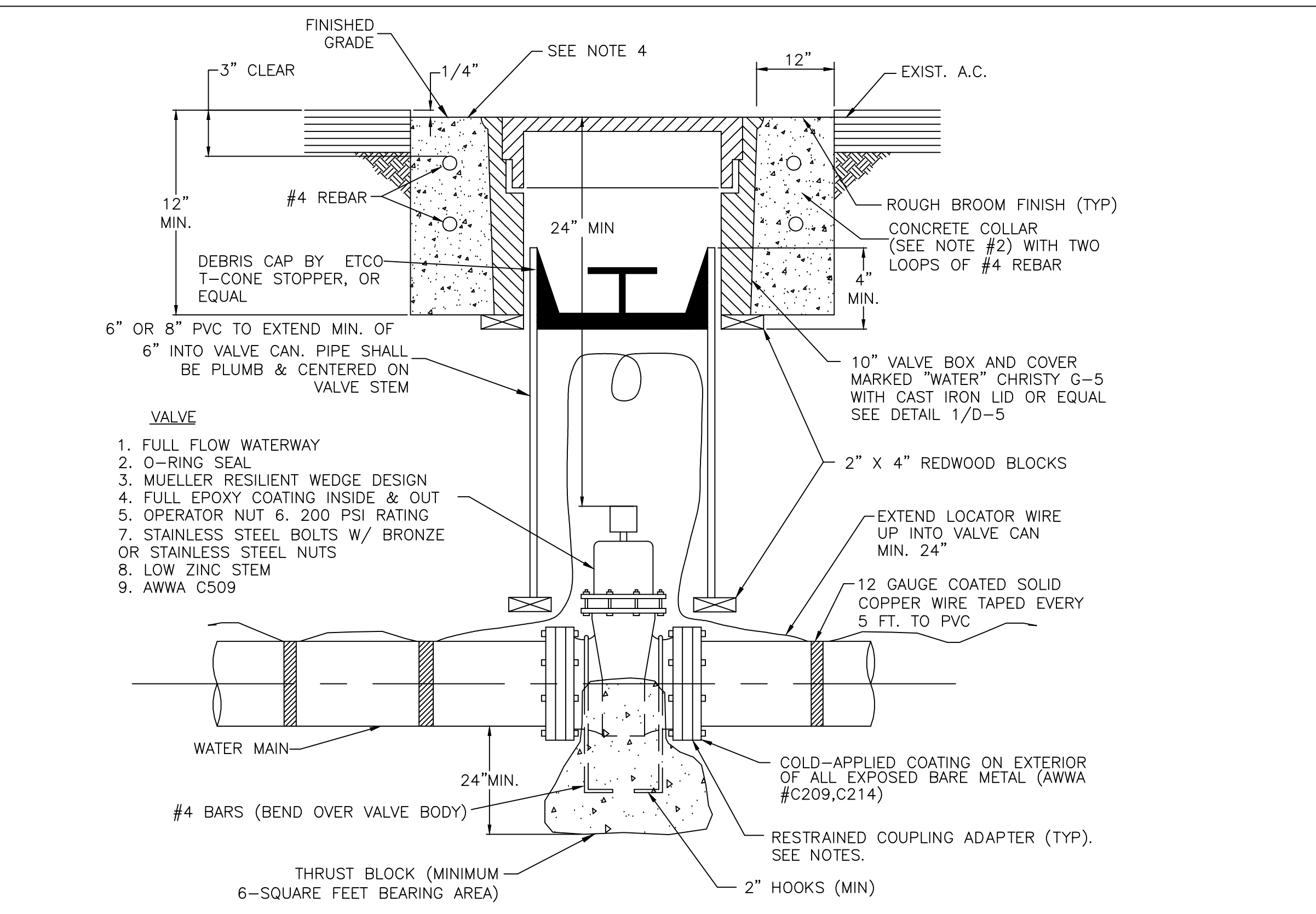
- CROSSING NOTES:**
- FOR PURPOSES OF SEPARATION AND PROTECTION OF THE WATER SUPPLY, RECLAIMED WATER AND STORM DRAIN LINE SHALL BE CONSIDERED A SEWER LINE.
 - CUT ADJACENT PIPE SECTIONS AS REQUIRED TO CENTER FULL 20' WATERLINE PIPE LENGTH UNDER SEWER.
 - CASING PIPE SHALL BE SIZED TO FIT 10" WATER MAIN, SPACERS, JOINTS, AND ALL OTHER APPURTENANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE CORRECT DIAMETER OF CASING.
 - CONCRETE FOR THRUST BLOCKS SHALL NOT INTERFERE WITH THE REMOVAL OF BOLTED ASSEMBLIES.
 - ROUTING WATER LINE UNDER SEWER LINE REQUIRES APPROVAL BY THE WATER UTILITY.
 - CROSSING MUST COMPLY WITH NAC 445A

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



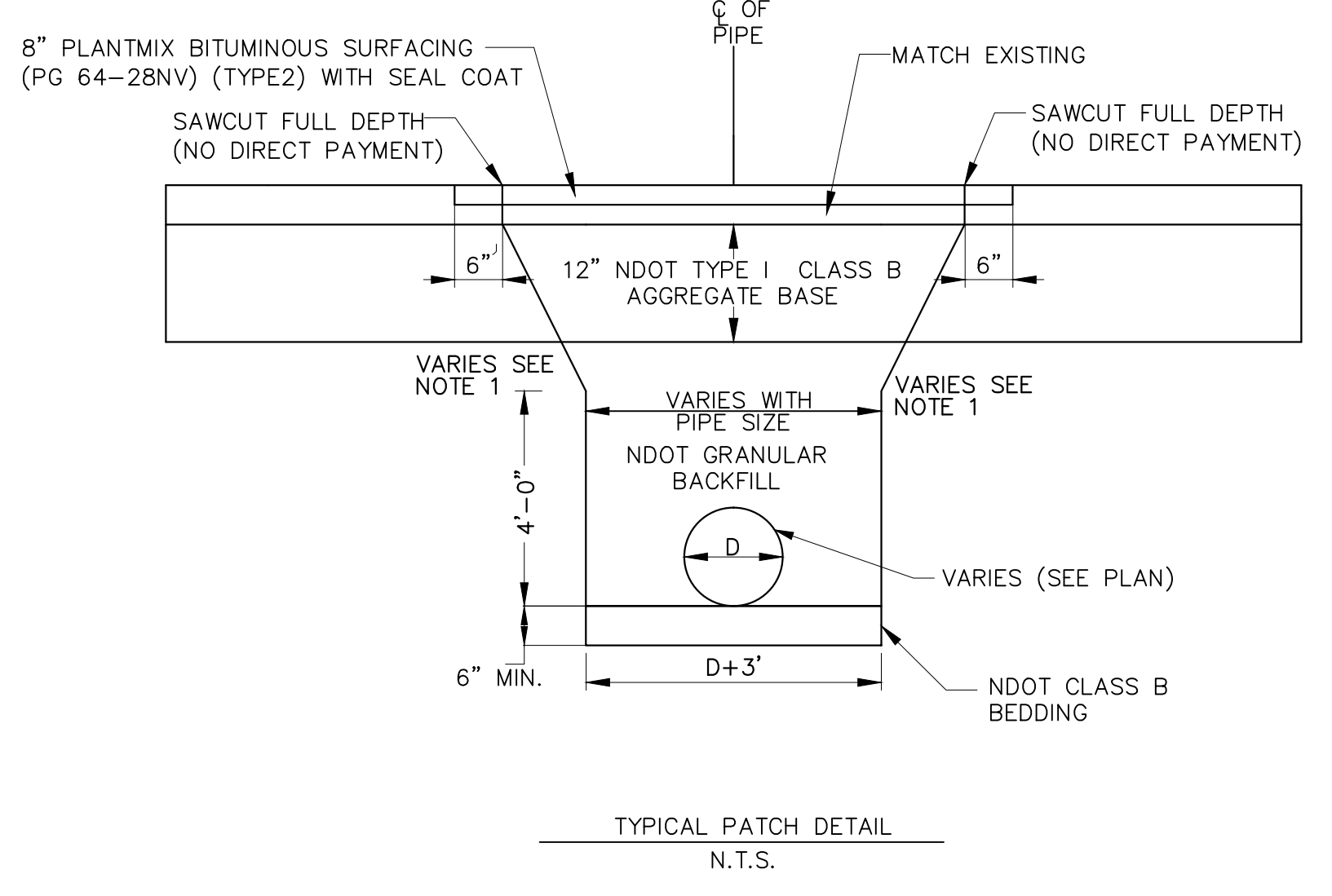
- WATER LINE TRENCH NOTES:**
- TRENCHES MORE THAN 4' DEEP SHALL BE SHORED, LAID BACK TO AT LEAST THE ANGLE OF REPOSE FOR EXISTING FIELD CONDITIONS, OR SOME OTHER MEANS OF PROTECTION SHALL BE PROVIDED.
 - IF HAZARDOUS FIELD CONDITIONS INDICATE GROUND MOVEMENT MAY BE EXPECTED, TRENCHES LESS THAN 4' DEEP SHALL BE PROTECTED AS INDICATED IN NOTE 1.
 - A TRAVEL LANE SHALL BE MAINTAINED. TRENCH EXCAVATION INCLUDING SHIELD AND SHORING SYSTEMS SHALL COMPLY WITH CURRENT OSHA SAFETY REGULATIONS, FEDERAL REGISTER 29 CFR, PART 1926, SUBPART P.
 - ALL MATING SURFACES SHALL BE TACK COATED PRIOR TO PAVING (NO DIRECT PAYMENT).
 - SLURRY BACKFILL TRENCH TO BE USED WHEN UNABLE TO MAINTAIN A 12' TRAVEL LANE WITH THE STANDARD TRENCH OR AS DIRECTED BY THE ENGINEER.
 - COMPACTION SHALL BE PERCENT RELATIVE COMPACTION BASED ON THE MAXIMUM DRY DENSITY DETERMINED WITH TEST METHOD NO. NEV. T101.
 - IN HIGH GROUND WATER, GRANULAR BACKFILL WRAPPED IN AN APPROVED GEOTEXTILE MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
 - THERE SHALL BE NO ADDITIONAL COMPENSATION FOR ANY ADDITIONAL EXCAVATION OR BACKFILL REQUIRED FOR EXCAVATIONS TO MEET OSHA REGULATIONS.
 - PLACE WARNING TAPE 1 FT. ABOVE WATER, AND RECLAIMED WATER PIPE.
 - WATER STOPS SHALL BE USED IN HIGH GROUND- WATER CONDITIONS PER DETAIL 2/D-5.

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



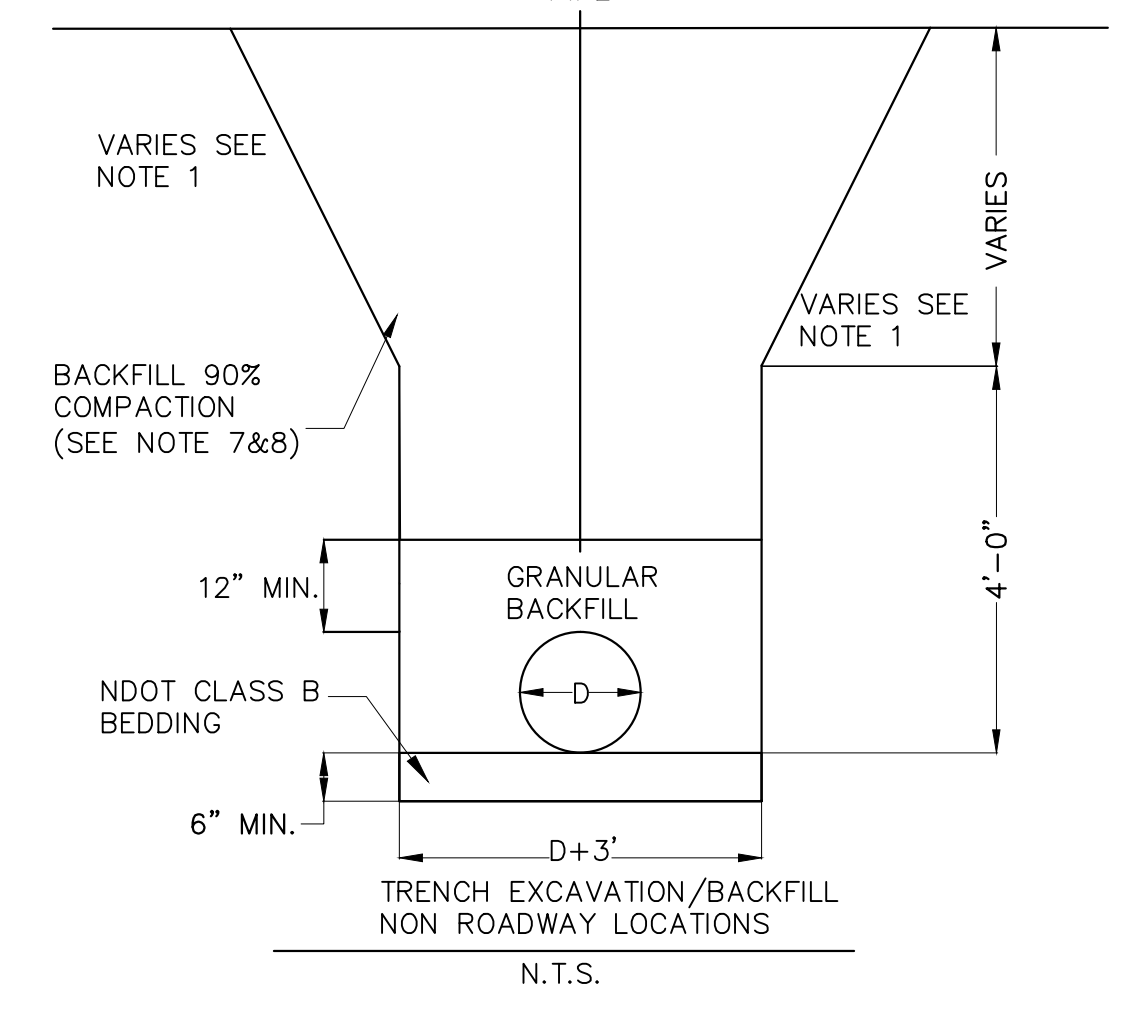
- VALVE NOTES:**
- MATERIAL USED FOR THRUST BLOCKING SHALL NOT PREVENT ACCESS TO THE BOLT ASSEMBLY.
 - CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 202.12 OF THE STANDARD SPECIFICATIONS.
 - IN ALL AREAS, LIDS SHALL BE SET FLUSH WITH FINISHED GRADE UNLESS OTHERWISE NOTED.
 - THE CONCRETE COLLAR SHALL BE 1/4" BELOW SURROUNDING PAVEMENT. APPLY BLACK COLORANT TO SURFACE OF CONCRETE.
 - SPLICES IN WIRE SHALL BE CONNECTED BY SOLDER OR WIRE NUTS AND WRAPPED WITH UL LISTED ELECTRICAL TAPE.
 - PROVIDE AND INSTALL EXTENSION STEMS SO THAT VALVE OPERATING NUT IS NOT GREATER THAN FIVE (5) FEET BELOW FINISHED GRADE.
 - THRUST BLOCK MAY BE ELIMINATED FOR FLANGED VALVES WITH MUELLER AQUAGRIP OR APPROVED EQUAL FLANGED RESTRAINT ADAPTOR.
 - PROVIDE PIPE POLYETHYLENE PROTECTIVE WRAP ON ALL VALVES, 8-MILS MINIMUM, SECURED WITH 2-INCH WIDE PRESSURE SENSITIVE PLASTIC TAPE, 10-MILS MINIMUM.
 - COUPLING ADAPTOR TYPE SHALL BE RESTRAINED AND SELECTED PER PROPOSED OR EXISTING WATER MAIN MATERIAL TYPE. WHERE VALVE IS CONNECTED TO AC PIPE, COUPLING ADAPTOR SHALL BE ENCASED IN CONCRETE TO PROVIDE RESTRAINT. CONCRETE ENCASEMENT SHALL EXTEND 1' MINIMUM FROM COUPLING CONNECTION. ENCASEMENT SHALL NOT INTERFERE WITH OPERATION OF THE VALVE.

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



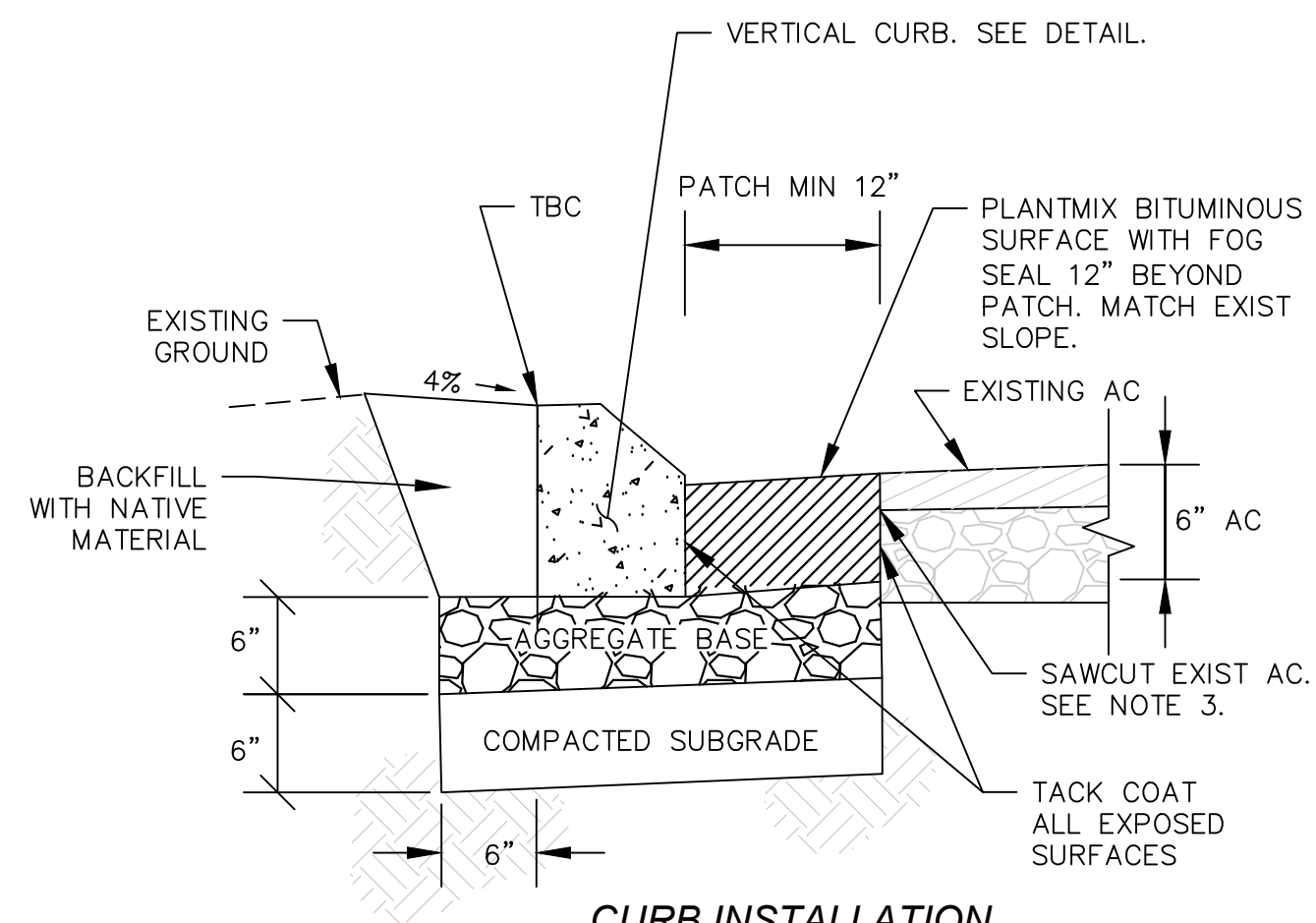
- TRENCH/PATCHING NOTES:**
- TRENCHES MORE THAN 4' DEEP SHALL BE SHORED, LAID BACK TO AT LEAST THE ANGLE OF REPOSE FOR EXISTING FIELD CONDITIONS, OR SOME OTHER MEANS OF PROTECTION SHALL BE PROVIDED.
 - IF HAZARDOUS FIELD CONDITIONS INDICATE GROUND MOVEMENT MAY BE EXPECTED, TRENCHES LESS THAN 4' DEEP SHALL BE PROTECTED AS INDICATED IN NOTE 1.
 - PAVING JOINTS IN ROADWAY ARE NOT ALLOWED IN WHEEL PATHS.
 - MATCH EXISTING STRIPING THROUGH LIMITS OF PATCH AREA.
 - A TRAVEL LANE SHALL BE MAINTAINED. TRENCH EXCAVATION INCLUDING SHIELD AND SHORING SYSTEMS SHALL COMPLY WITH CURRENT OSHA SAFETY REGULATIONS, FEDERAL REGISTER 29 CFR, PART 1926, SUBPART P.
 - ALL MATING SURFACES SHALL BE TACK COATED PRIOR TO PAVING (NO DIRECT PAYMENT).
 - SLURRY BACKFILL TRENCH TO BE USED WHEN UNABLE TO MAINTAIN A 12' TRAVEL LANE WITH THE STANDARD TRENCH OR AS DIRECTED BY THE ENGINEER.
 - COMPACTION SHALL BE PERCENT RELATIVE COMPACTION BASED ON THE MAXIMUM DRY DENSITY DETERMINED WITH TEST METHOD NO. NEV. T101.
 - IN HIGH GROUND WATER, GRANULAR BACKFILL WRAPPED IN AN APPROVED GEOTEXTILE MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
 - THERE SHALL BE NO ADDITIONAL COMPENSATION FOR ANY ADDITIONAL EXCAVATION OR BACKFILL REQUIRED FOR EXCAVATIONS TO MEET OSHA REGULATIONS.

NDOT ROW TRENCH/PATCHING
SCALE: N.T.S. 4
D-6

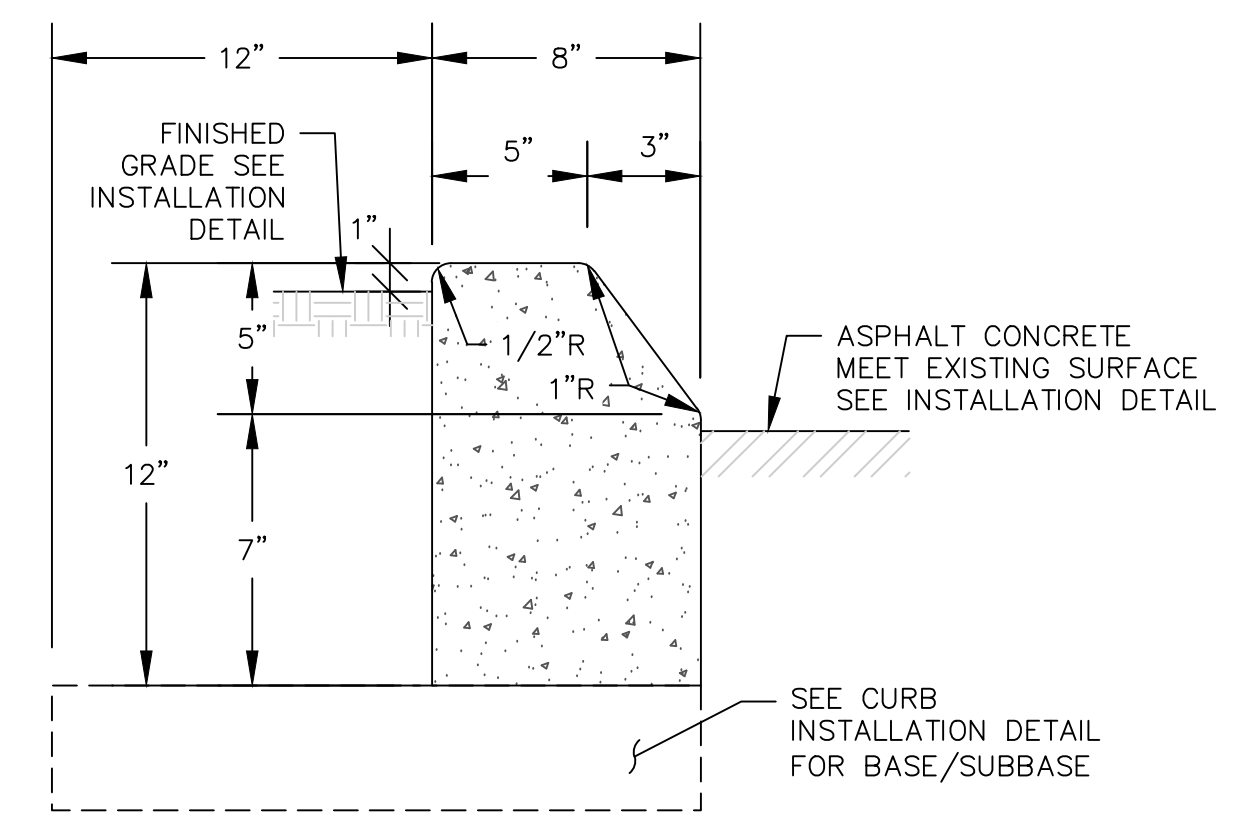


DETAILS
BURKE CREEK HWY 50 CROSSING AND REALIGNMENT PROJECT
PHASE 1

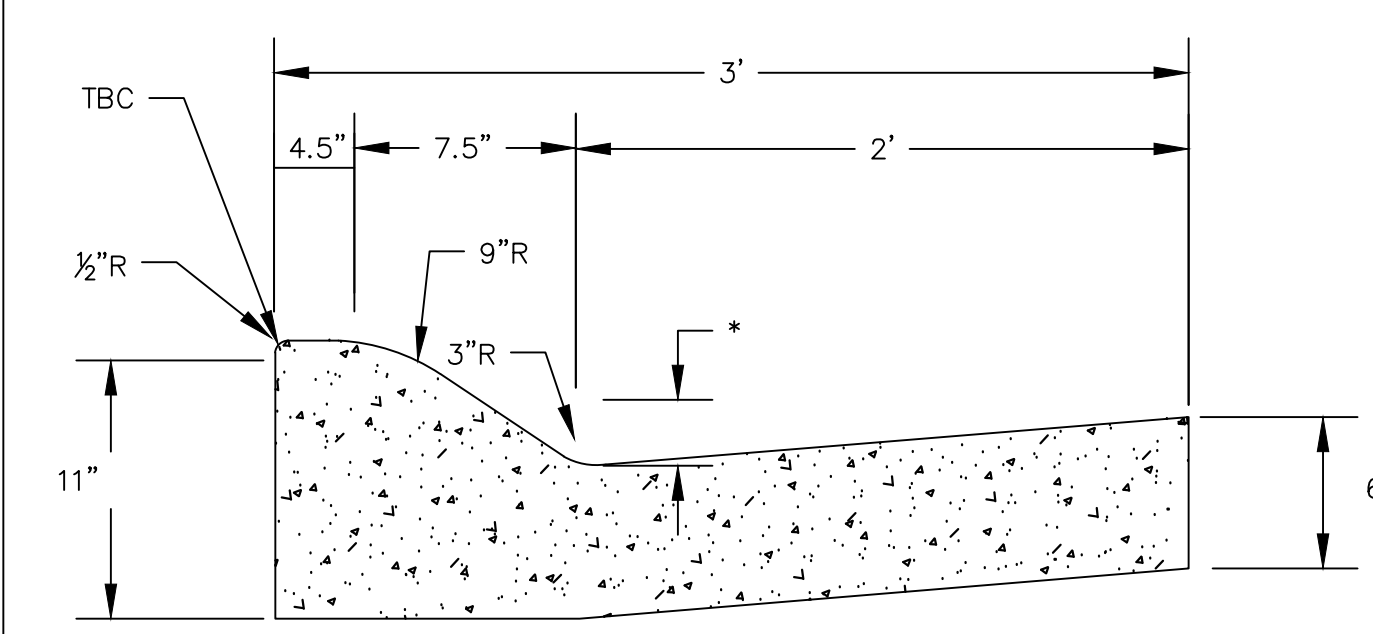
DESIGNED/DRAWN	MK/JB
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DATE	05/13/2016
SCALE	AS SHOWN
PROJECT	BCC



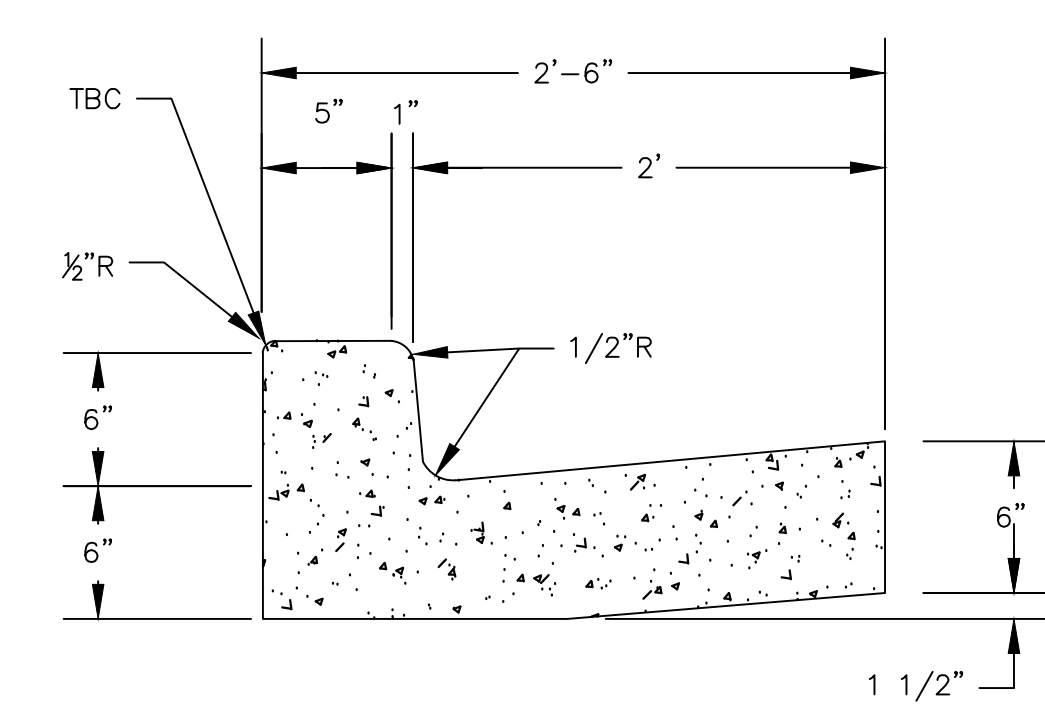
CURB INSTALLATION



VERTICAL CURB



ROLLED CURB AND GUTTER (NDOT TYPE 6)



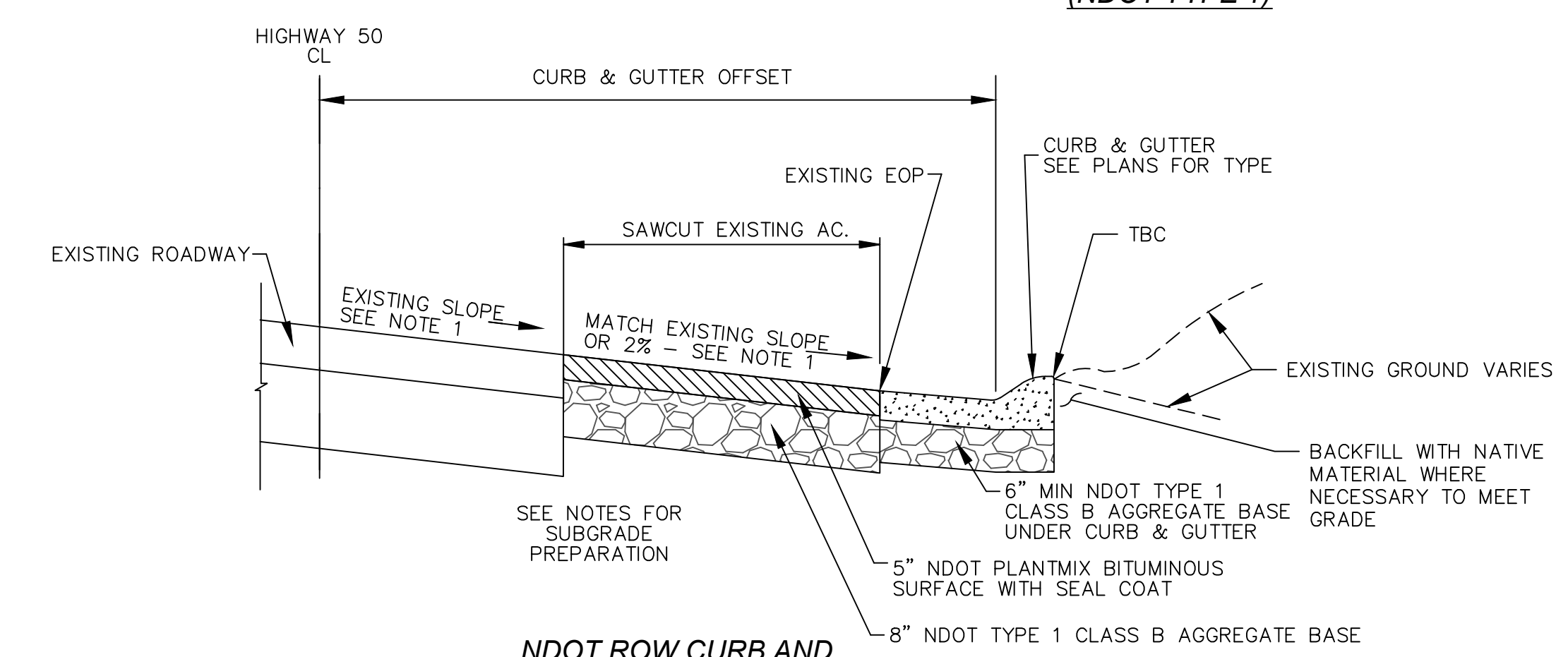
VERTICAL CURB AND GUTTER (NDOT TYPE 1)

- 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 VERTICAL CURB

SCALE: NTS

1
D-7



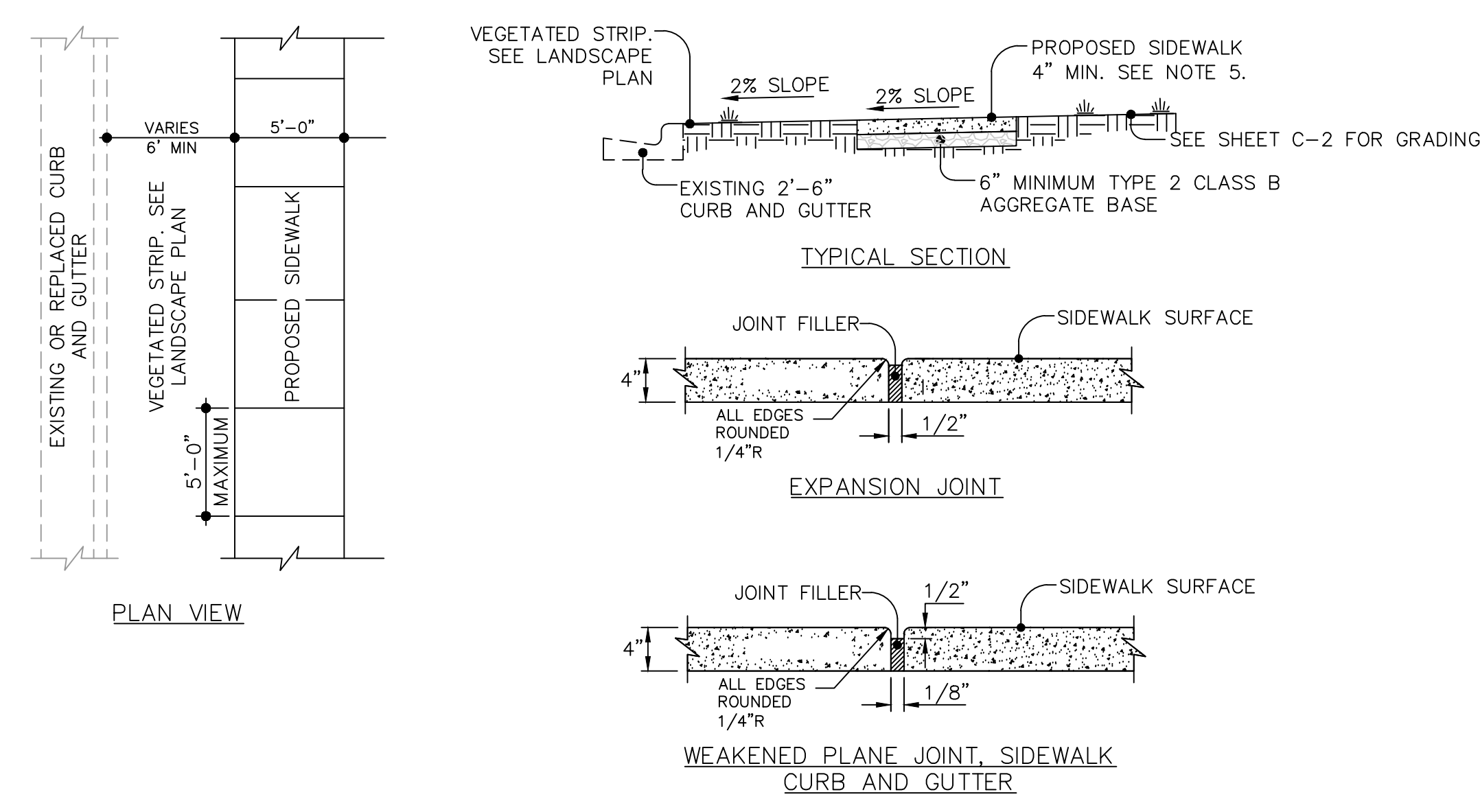
NDOT ROW CURB AND GUTTER INSTALLATION

- C&G NOTES:**
- WHERE EXISTING CROSS SLOPE IS LESS THAN 2% OR SLOPING AWAY FROM ROADSIDE DITCH, PAVE DITCH AT 2% SLOPE.
 - WHERE POSSIBLE, PAVING JOINTS IN ROADWAY ARE NOT ALLOWED IN WHEEL PATHS.
 - MATCH EXISTING STRIPING THROUGH LIMITS OF PATCH AREA.
 - A TRAVEL LANE SHALL BE MAINTAINED. TRENCH EXCAVATION INCLUDING SHIELD AND SHORING SYSTEMS SHALL COMPLY WITH CURRENT OSHA SAFETY REGULATIONS, FEDERAL REGISTER 29 CFR, PART 1926, SUBPART P.
 - ALL MATING SURFACES SHALL BE TACK COATED PRIOR TO PAVING (NO DIRECT PAYMENT).
 - PREPARE SUBGRADE 6" MIN PER NDOT STANDARD SPECIFICATION SECTION 302.

NDOT CONCRETE CURB AND GUTTER

SCALE: NTS

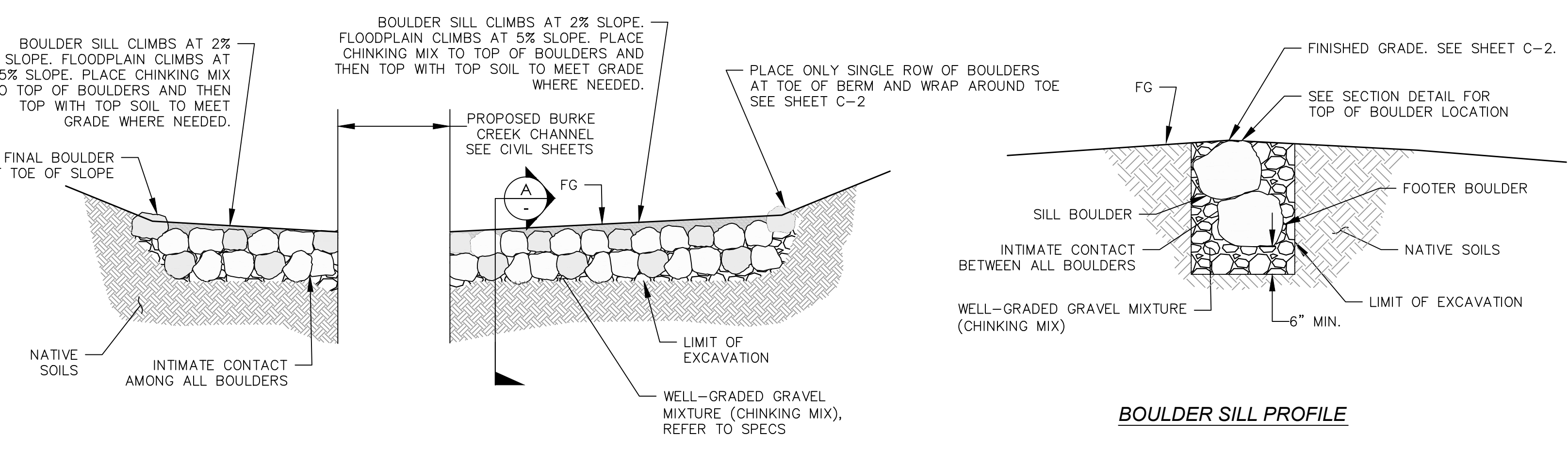
2
D-7



SIDEWALK

SCALE: NTS

3
D-7



BOULDER SILL SECTION

BOULDER SILL PROFILE

- 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

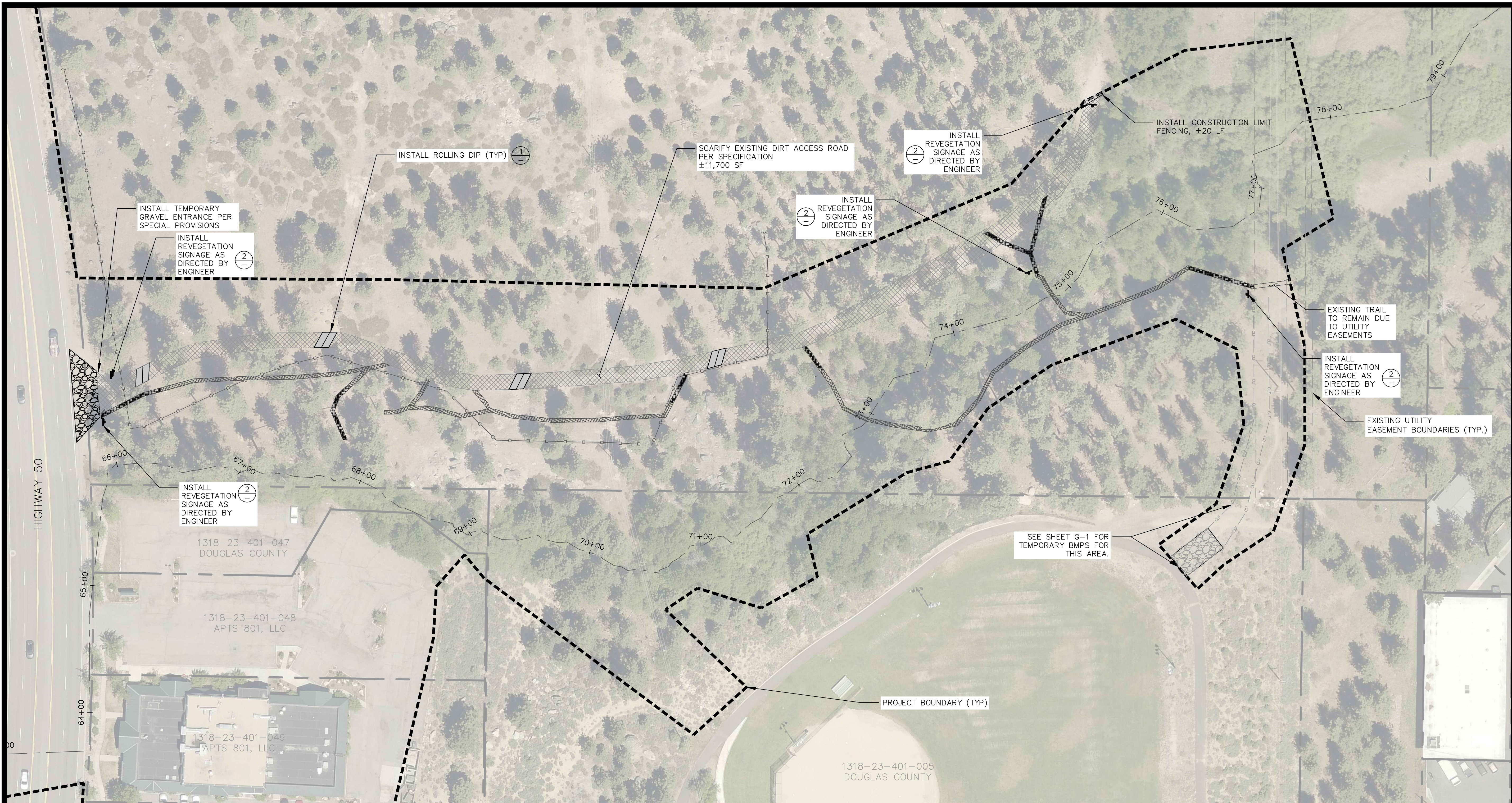
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4
D-7

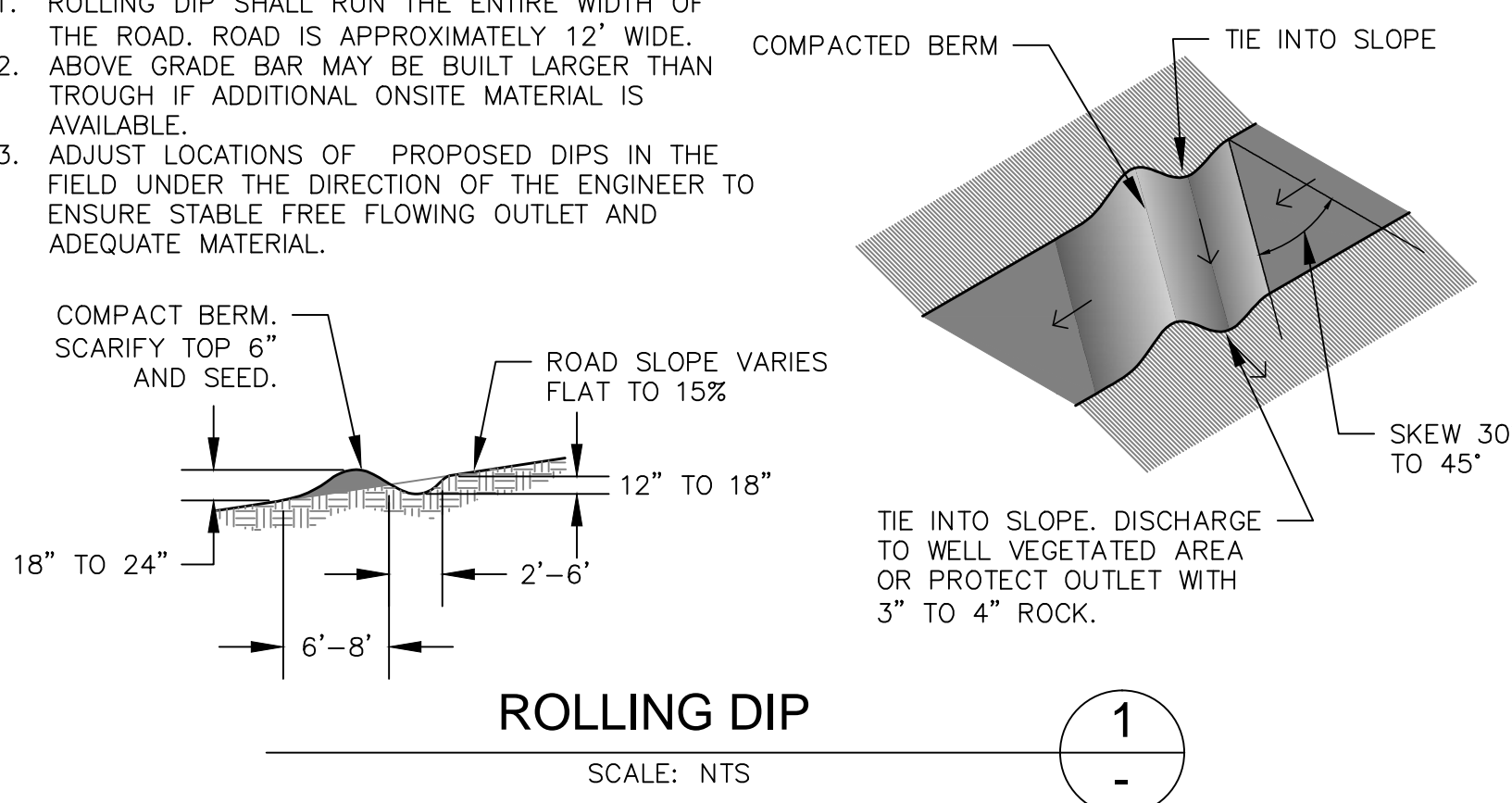
- NOTES:**
- ALL CONCRETE SHALL BE REMOVED AT EXISTING JOINTS. SEE SECTION 311.10.07 OF THE STANDARD SPECIFICATIONS "CONSTRUCTION JOINTS" FOR POURING CONCRETE NEXT TO EXISTING CONCRETE.
 - PORTLAND CEMENT CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC 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.
 - PROPOSED SIDEWALK SHALL BE TRANSITIONED TO EXISTING 4' SIDEWALK FOR 1' MINIMUM LENGTH.

DESIGNED/DRAWN	MK/MK
CHECKED	MG
DATE	05/13/2016
SCALE	AS SHOWN
PROJECT	BCC
SHEET	

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

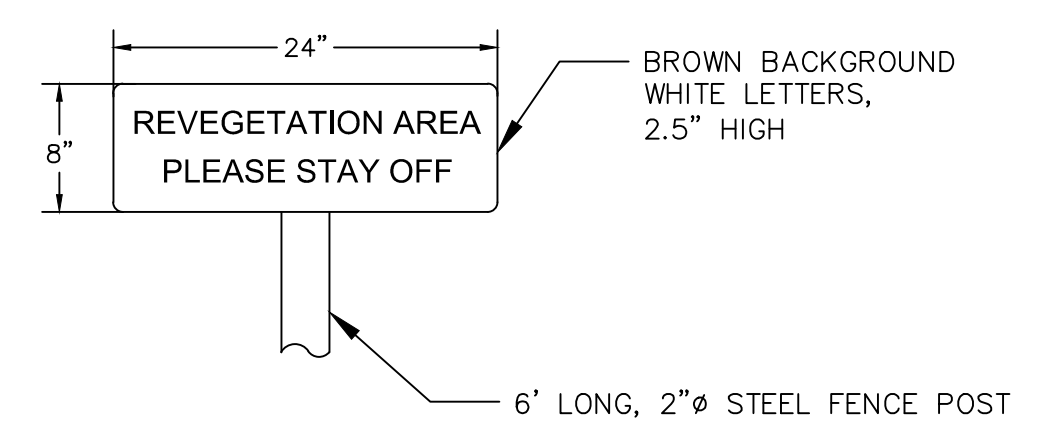


- NOTES:**
- ROLLING DIP SHALL RUN THE ENTIRE WIDTH OF THE ROAD. ROAD IS APPROXIMATELY 12' WIDE.
 - ABOVE GRADE BAR MAY BE BUILT LARGER THAN TROUGH IF ADDITIONAL ONSITE MATERIAL IS AVAILABLE.
 - ADJUST LOCATIONS OF PROPOSED DIPS IN THE FIELD UNDER THE DIRECTION OF THE ENGINEER TO ENSURE STABLE FREE FLOWING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



ROLLING DIP
SCALE: NTS

1

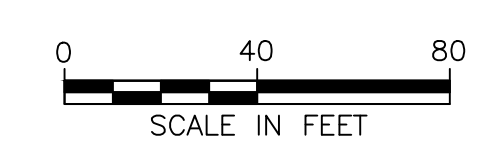


REVEGETATION SIGNAGE
SCALE: NTS

2

- NOTES:**
- 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	05/13/2016
SCALE	AS SHOWN
PROJECT	BCC