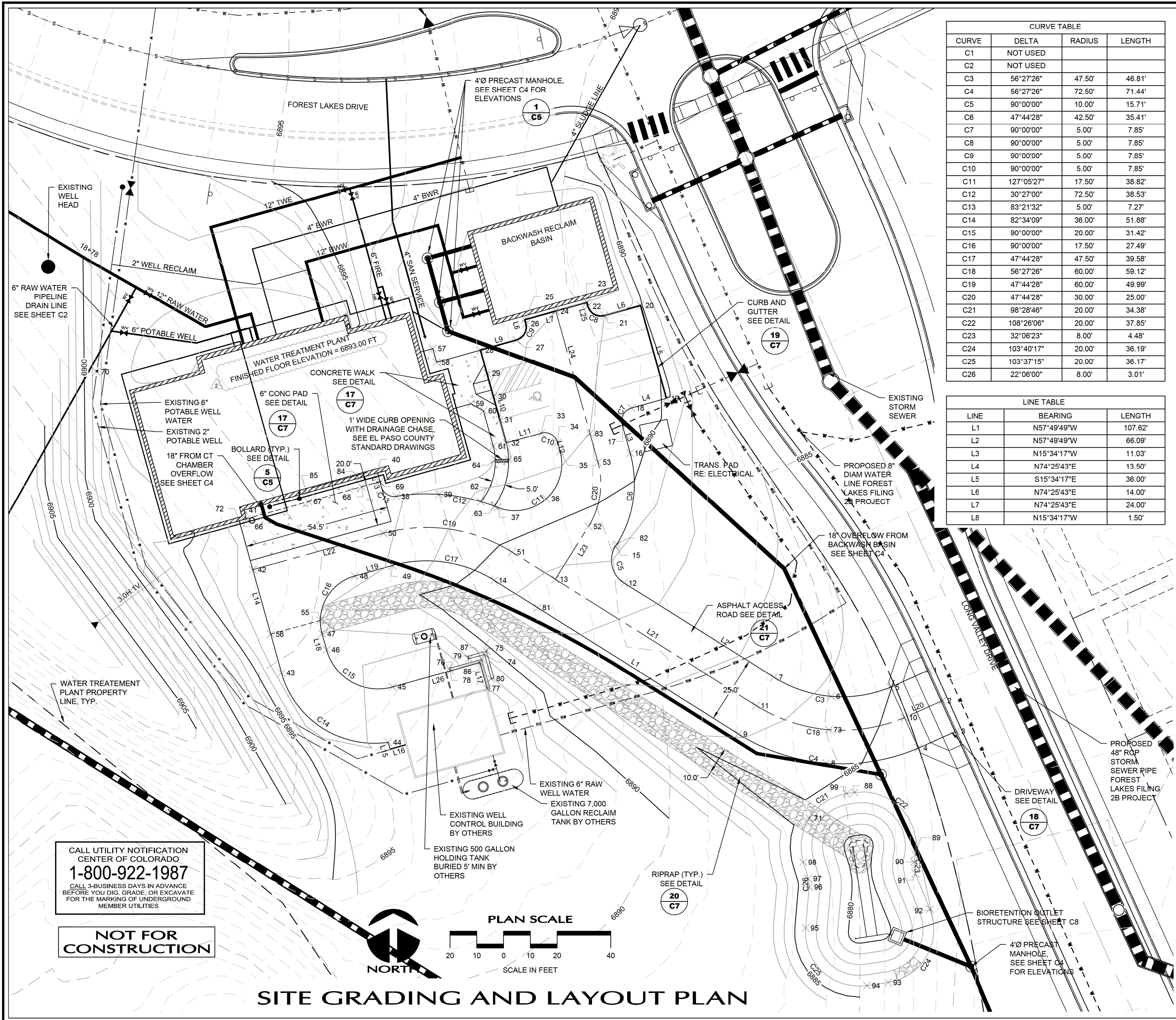


ISSUED FOR REGULATORY REVIEW



CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	NOT USED		
C2	NOT USED		
C3	56°27'26"	47.50'	46.81'
C4	56°27'26"	72.50'	71.44'
C5	90°00'00"	10.00'	15.71'
C6	47°44'28"	42.50'	35.41'
C7	90°00'00"	5.00'	7.85'
C8	90°00'00"	5.00'	7.85'
C9	90°00'00"	5.00'	7.85'
C10	90°00'00"	5.00'	7.85'
C11	127°05'27"	17.50'	38.82'
C12	30°27'00"	72.50'	38.53'
C13	83°21'32"	5.00'	7.27'
C14	82°34'09"	36.00'	51.88'
C15	90°00'00"	20.00'	31.42'
C16	90°00'00"	17.50'	27.49'
C17	47°44'28"	47.50'	39.58'
C18	56°27'26"	60.00'	59.12'
C19	47°44'28"	60.00'	49.99'
C20	47°44'28"	30.00'	25.00'
C21	98°28'46"	20.00'	34.38'
C22	108°28'06"	20.00'	37.85'
C23	32°06'23"	8.00'	4.48'
C24	103°40'17"	20.00'	36.19'
C25	103°37'15"	20.00'	36.17'
C26	22°06'00"	8.00'	3.01'

LINE TABLE		
LINE	BEARING	LENGTH
L1	N57°49'49"W	107.62'
L2	N57°49'49"W	66.09'
L3	N15°34'17"W	11.03'
L4	N74°25'43"E	13.50'
L5	S15°34'17"E	36.00'
L6	N74°25'43"E	14.00'
L7	N74°25'43"E	24.00'
L8	N15°34'17"W	1.50'

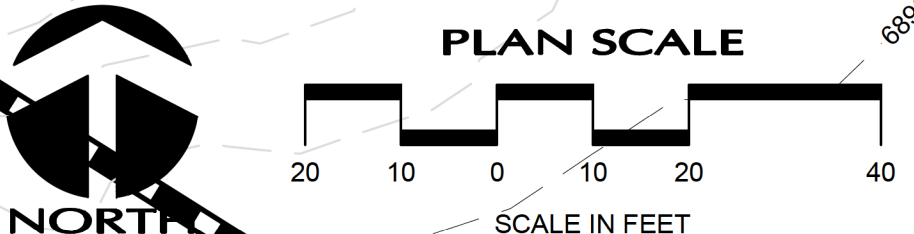
Point Table				
Point #	Elevation	Northing	Easting	Description
1	6884.36	14576.61	16226.85	ME
2	6884.17	14565.22	16232.00	ME
3	6883.99	14553.83	16237.14	ME
4	6884.51	14547.46	16223.00	FL
5	6885.01	14570.22	16212.63	FL
6	6885.80	14566.61	16190.53	MP
7	6886.58	14573.93	16169.23	EOA
8	6885.30	14541.87	16188.65	MP
9	6886.08	14552.77	16155.92	EOA
10	6884.75	14558.86	16217.85	CL
11	6886.33	14563.35	16162.58	CL
12	6888.40	14609.12	16113.29	EOA
13	6888.77	14610.51	16087.59	CL
14	6889.47	14610.07	16064.82	EOA
15	6889.36	14622.90	16110.15	EOA
16	6890.33	14657.62	16115.54	EOA
17	6890.74	14668.25	16112.58	EOA
18	6890.60	14674.41	16116.05	EOA
19	6889.90	14678.03	16129.06	FL-BEGIN G&G
20	6890.34	14712.71	16119.39	FL
21	6891.00	14708.95	16105.91	FL
22	6891.35	14712.43	16099.75	FL
23	6891.45	14713.87	16099.35	FL
24	6892.00	14710.60	16087.73	FL
25	6892.12	14707.43	16076.23	FL
26	6892.10	14705.98	16076.63	FL
27	6892.10	14699.82	16073.16	FL
28	6892.21	14696.07	16059.67	FL
29	6892.14	14687.40	16062.09	FL
30	6892.07	14678.73	16064.50	FL
31	6892.00	14670.06	16066.92	FL
32	6891.86	14661.39	16069.33	FL-END C&G
33	6891.55	14665.01	16082.34	EOA
34	6891.24	14661.54	16088.50	EOA
35	6891.12	14658.29	16089.40	EOA
36	6890.82	14640.59	16084.26	MP
37	6890.53	14637.31	16066.13	EOA
38	6892.12	14641.48	16028.28	EOA
39	6891.46	14642.21	16044.16	MP
40	6892.50	14650.16	16021.27	EOC
41	6892.99	14636.26	15971.40	EOC
42	6892.73	14614.09	15974.72	EOA
43	6892.42	14575.60	15985.44	EOA
44	6893.10	14549.62	16025.22	EOA
45	6893.43	14570.32	16026.88	EOA
46	6892.19	14584.22	16002.24	EOA
47	6892.11	14590.15	16000.59	EOA
48	6892.12	14611.71	16012.75	EOA
49	6891.97	14615.62	16026.78	EOA
50	6892.22	14627.66	16023.43	CL
51	6889.72	14620.65	16071.48	CL
52	6889.64	14630.24	16100.00	CL
53	6890.58	14654.26	16103.50	CL
55	6892.04	14595.17	15999.95	LP/GB
56	6892.23	14590.02	15981.42	LP/GB
57	6892.82	14696.64	16041.86	WALK
58	6892.82	14691.50	16043.29	WALK
59	6892.74	14676.04	16056.09	WALK

Point Table				
Point #	Elevation	Northing	Easting	Description
60	6892.64	14673.38	16060.80	WALK
61	6892.46	14660.16	16064.49	WALK
62	6890.80	14639.46	16059.83	WALK
63	6890.59	14637.80	16064.85	WALK
64	6892.36	14655.21	16065.19	WALK
65	6892.26	14655.38	16070.18	WALK
66	6892.92	14633.05	15972.30	EOC/GB
67	6892.92	14639.52	15995.54	GB
68	6892.43	14645.04	16015.32	GB
69	6892.43	14648.95	16022.17	EOC/GB
70	6890.50	14687.94	15916.26	HP
71	6884.00	14521.35	16182.40	FL
72	6892.92	14632.31	15969.64	EOC/GB
73	6885.54	14554.33	16189.67	MP
74	6891.93	14582.48	16061.22	TOP OF WALL
75	6090.43	14583.72	16061.91	GROUND
76	6893.39	14577.28	16048.13	GROUND
77	6893.50	14569.77	16062.17	TOP OF WALL
78	6893.43	14576.32	16048.40	TOP OF WALL
79	6891.93	14580.83	16055.29	TOP OF WALL
80	6891.93	14573.39	16063.75	TOP OF WALL
81	6888.52	14599.93	16080.94	EOA
82	6889.39	14623.58	16110.58	EOA
83	6890.99	14664.89	16100.54	CL
84	6892.50	14648.25	16014.43	EOC
85	6892.99	14642.74	15994.64	EOC
86	6893.43	14579.40	16059.48	EOA
87	6891.93	14580.64	16060.18	GROUND
88	6884.00	14530.96	16199.22	PC
89	6884.00	14507.77	16221.91	PT
90	6884.00	14505.00	16221.43	PC
91	6884.00	14500.60	16221.91	PT
92	6884.00	14487.40	16227.32	PC
93	6884.00	14460.05	16211.79	PT
94	6884.00	14458.85	16203.90	PC
95	6884.00	14480.38	16180.99	PT
96	6884.00	14495.71	16182.33	PC
97	6884.00	14498.76	16182.01	PT
98	6884.00	14504.87	16180.14	PC
99	6884.00	14530.52	16196.27	PT

LINE TABLE (CONTINUED)		
LINE	BEARING	LENGTH
L8	N15°34'17"W	1.50'
L9	N74°25'43"E	14.00'
L10	S15°34'17"E	36.00'
L11	N74°25'43"E	13.50'
L12	S15°34'17"E	3.38'
L13	S15°34'17"E	5.27'
L14	S15°34'17"E	58.87'
L15	N15°34'17"W	2.51'
L16	N74°25'43"E	6.00'
L17	S15°34'17"E	10.00'
L18	S15°34'17"E	6.16'
L19	S74°25'43"W	14.57'
L20	S65°42'45"W	14.04'
L21	N57°49'49"W	107.62'
L22	S74°25'43"W	50.57'
L23	S32°10'11"W	23.30'
L24	S15°34'17"E	58.53'
L25	S15°34'17"E	1.50'
L26	N74°25'43"E	36.84'

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987
CALL 3-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES

**NOT FOR
CONSTRUCTION**



SITE GRADING AND LAYOUT PLAN

WWE WRIGHT WATER ENGINEERS, INC.
2490 W. 26TH AVE. SUITE 100A
DENVER, CO 80211
(303)480-1700 FAX(303)480-1020

NO.	BY	DATE	DESCRIPTION	COMMENTS
1	HAL	11/31/2017	ISSUED FOR EL PASO COUNTY REVIEW	
2	JHAL	12/09/2017	REISSUED FOR EL PASO COUNTY REVIEW	



DATE	BY	DESCRIPTION
11/31/17	HAL	DESIGN
11/31/17	JKG	DETAIL
11/31/17	WFL	CHECK
		APPROVAL
	SHOWN	SCALE

**FOREST LAKES METROPOLITAN DISTRICT WATER INTAKE
AND TREATMENT PLANT**

WTP SITE GRADING AND LAYOUT PLAN

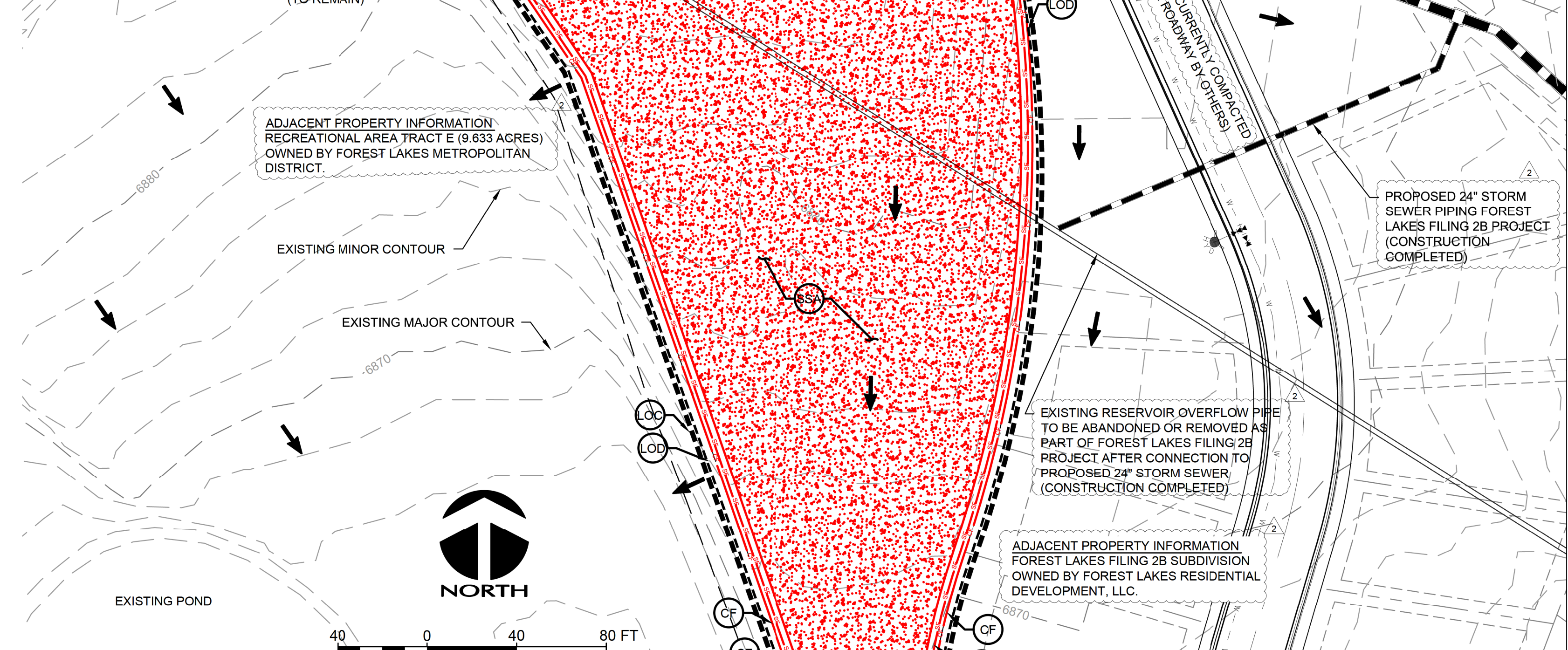
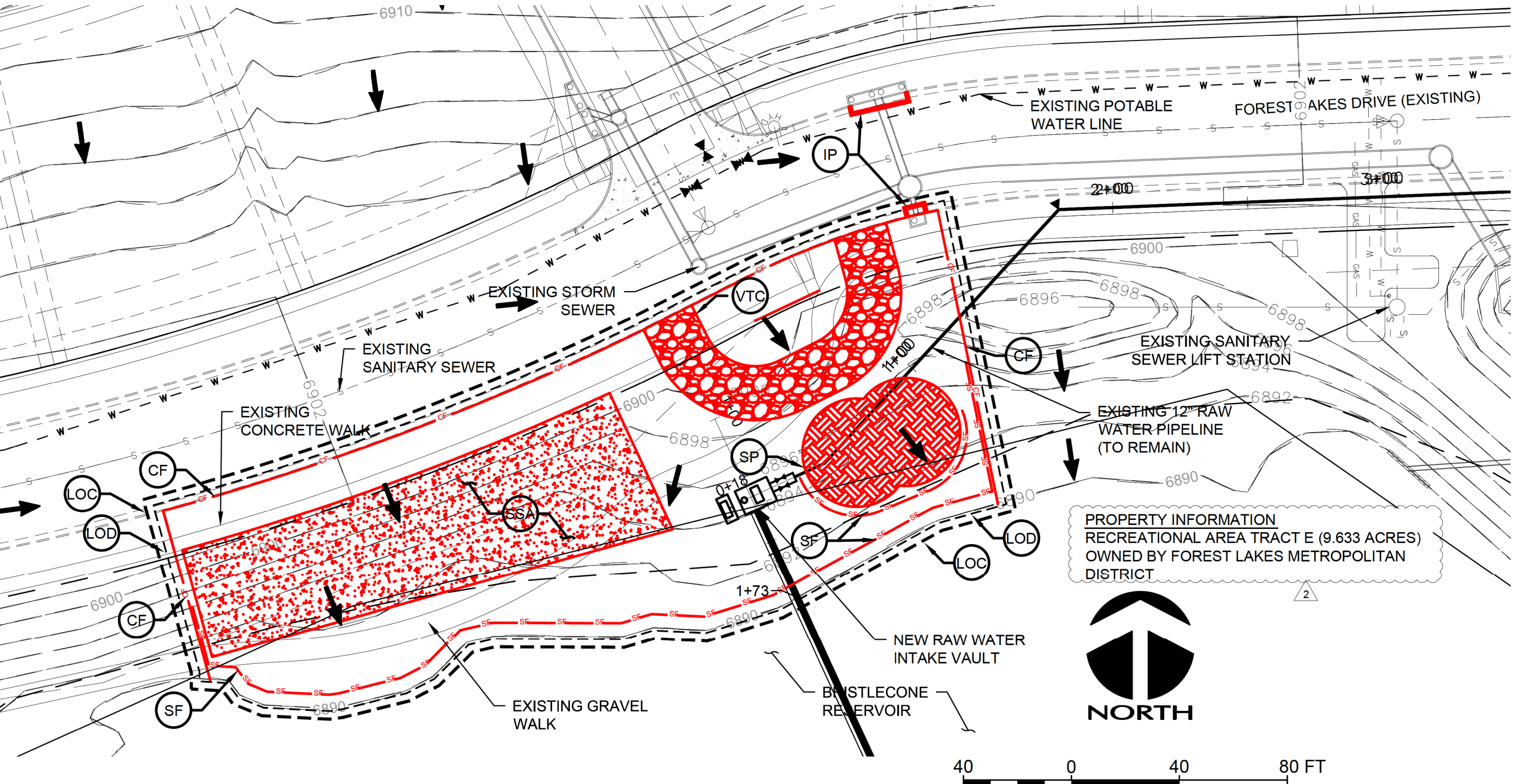
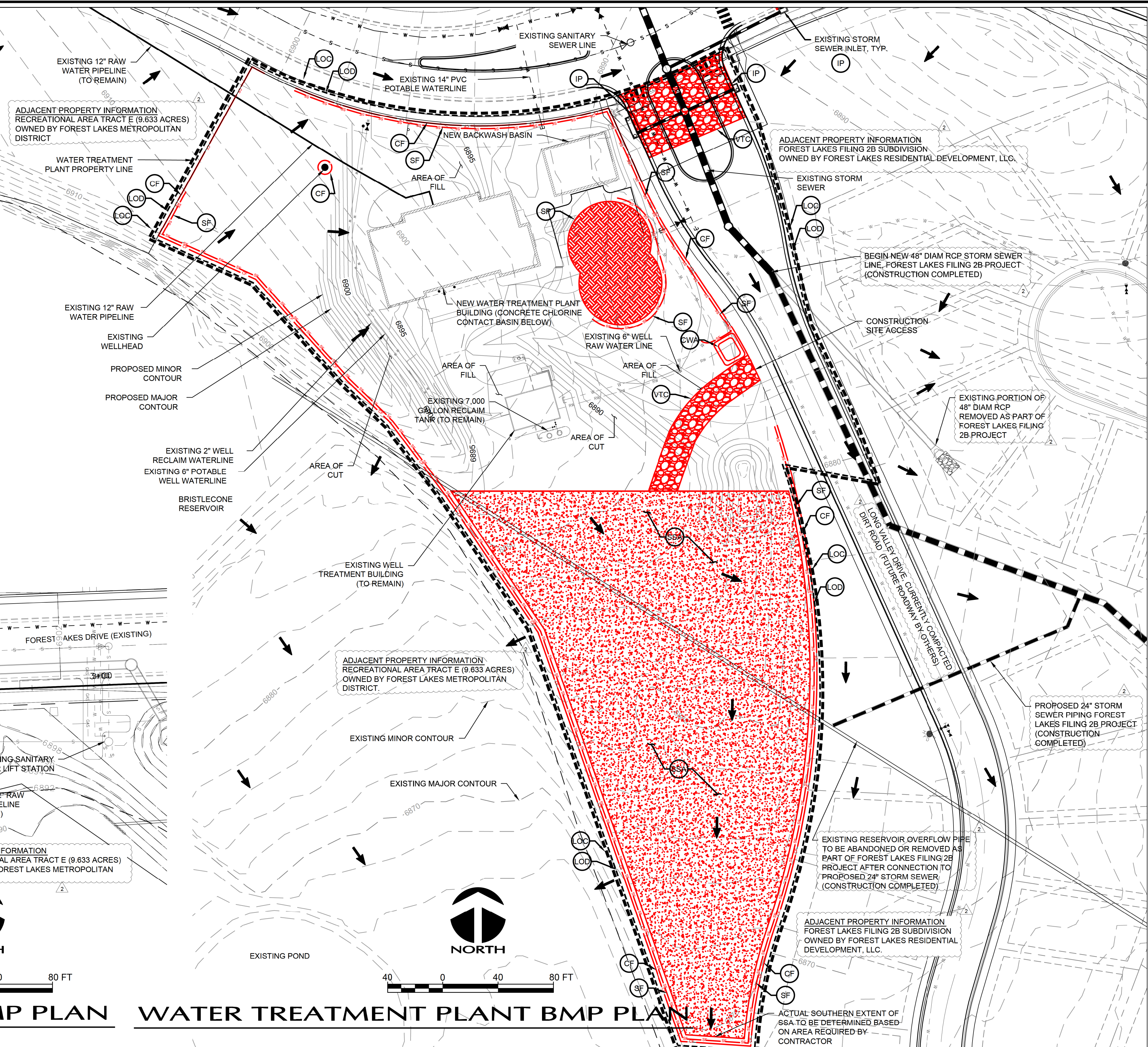
JOB NO. 031-090.300
REVISION NO. 2
SHEET NO. 02

SHEET NOTES:

- INITIAL PHASE CONSTRUCTION ACTIVITIES INCLUDE EXCAVATION FOR AND INSTALLATION OF THE BELOW GROUND CONCRETE STRUCTURES AND BUILDING FOUNDATION.
- PROJECT BOUNDARIES AND CONSTRUCTION LIMITS ARE APPROXIMATE. BMPS ARE SHOWN AS GRAPHIC SYMBOLS AND DO NOT REPRESENT ACTUAL SIZE AND SHAPE OF BMP.
- THE INITIAL PHASE CONSTRUCTION LIMITS ARE APPROXIMATELY 4.9 ACRES. INITIAL PHASE SOIL DISTURBANCE ASSOCIATED WITH THE PROJECT IS APPROXIMATELY 4.7 ACRES.
- ONLY PROPOSED CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE INITIAL PHASE BMP PLAN ARE SHOWN.
- APPROXIMATE EARTHWORK QUANTITIES:
 - CUT: 8000 CY (INCLUDES EXCAVATED MATERIAL FOR UNDERGROUND STRUCTURES)
 - FILL: 470 CY
- ALL EXCESS SOIL TO BE HAULED OFF SITE AND DISPOSED OF LEGALLY.
- THE PLAN SHALL NOT SUBSTANTIALLY CHANGE THE DEPTH OF COVER, OR ACCESS TO UTILITY FACILITIES. ADDITIONALLY, THE PLAN SHALL NOT INCREASE OR DIVERT WATER TOWARDS UTILITY FACILITIES. ANY CHANGES TO UTILITY FACILITIES TO ACCOMMODATE THE PLAN, MUST BE DISCUSSED AND AGREED TO BY THE AFFECTED UTILITY PRIOR TO IMPLEMENTING THE PLAN. THE RESULTING COST TO RELOCATE OR PROTECT UTILITIES, OR PROVIDE INTERIM ACCESS IS AT THE EXPENSE OF THE PERMIT HOLDER.
- PROVIDE SIGNS TO ALERT CONCRETE TRUCK DRIVERS THE LOCATION OF THE CONCRETE WASHOUT AREA.
- PORTIONS OF THE PROJECT WILL REQUIRE CONSTRUCTION ACCESS TO AREAS OUTSIDE OF THE PROJECT PROPERTY BOUNDARY. A TEMPORARY ACCESS LICENSE AGREEMENT FOR CONSTRUCTION ACCESS OUTSIDE THE FLMD RAW WATER INTAKE AND TREATMENT PLANT PROJECT PROPERTY BOUNDARY IS PROVIDED IN STORMWATER MANAGEMENT PLAN.
- 100 YEAR FLOOD PLAIN NOT LOCATED WITH IN CONSTRUCTION LIMITS. SEE ESQCP PLAN.
- ALL PROPOSED AND EXISTING PIPES SHOWN ON THE PLANS ARE OWNED AND OPERATED BY THE FOREST LAKES METROPOLITAN DISTRICT THE LOCAL PUBLIC UTILITY PROVIDER.

BMP LEGEND

- LOC LIMITS OF CONSTRUCTION
- LOD LIMITS OF DISTURBANCE
- CF CONSTRUCTION FENCE (CONSTRUCTION SITE BOUNDARY)
- SF SILT FENCE
- SP STOCKPILE MANAGEMENT W/ PROTECTION
- SSA STABILIZED STAGING AREA
- IP INLET PROTECTION
- CD CHECK DAM
- CWA CONCRETE WASHOUT AREA
- VTC VEHICLE TRACKING CONTROL
- OP OUTLET PROTECTION
- FLOW DIRECTION



RAW WATER INTAKE STRUCTURE BMP PLAN

WATER TREATMENT PLANT BMP PLAN

WWE WRIGHT WATER ENGINEERS, INC.
 2490 W. 26TH AVE. SUITE 100A
 DENVER, CO 80211
 (303)480-1700 FAX(303)480-1020

NO.	BY	DATE	DESCRIPTION	COMMENTS
1	HAL	11/31/2017	ISSUED FOR EL PASO COUNTY REVIEW	
2	HAL	12/8/2017	REISSUED FOR EL PASO COUNTY REVIEW	

DESIGN: HAL 11/31/17
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 CHECK: IBP 11/31/17
 APPROVAL: [Signature]
 SCALE: SHOWN
 03 INITIAL PHASE GECP.dwg

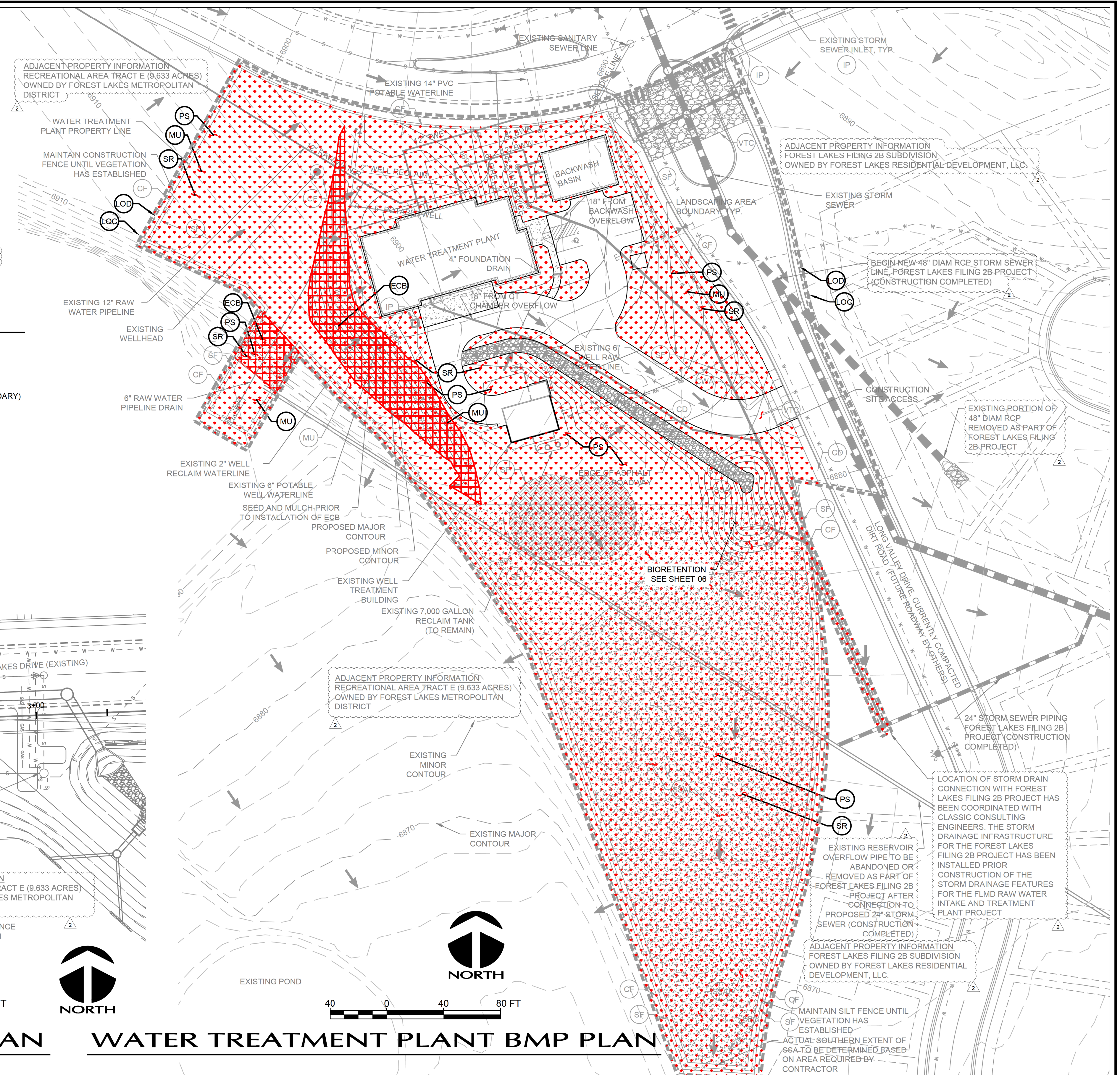
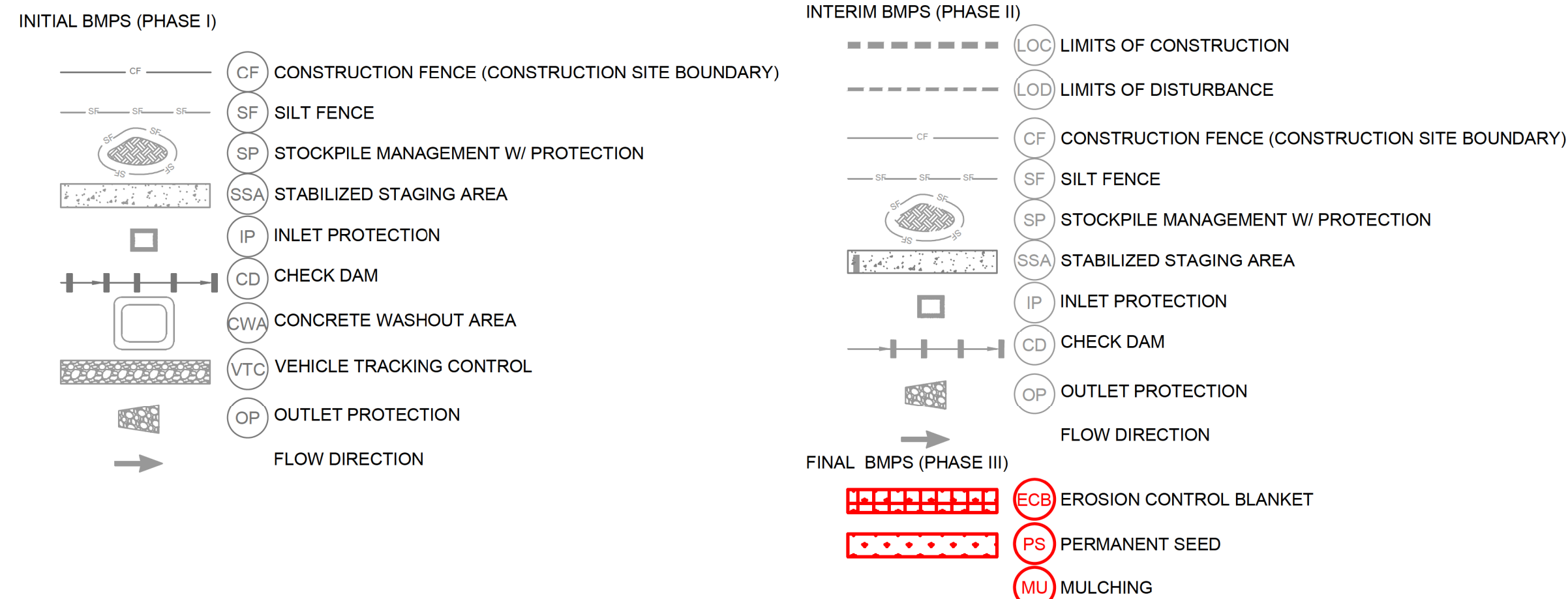
FOREST LAKES METROPOLITAN DISTRICT WATER INTAKE AND TREATMENT PLANT
 INITIAL PHASE GECP
 JOB NO. 031-090.300
 REVISION NO. 2
 SHEET NO. 03
 EN 1/4/18

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SHEET NOTES:

- ANTICIPATED FINAL PHASE CONSTRUCTION ACTIVITIES INCLUDE THE FOLLOWING:
 - INSTALLATION OF ALL SURFACE SITE WORK ITEMS INCLUDING, BUT NOT LIMITED TO, CONCRETE DRIVE, ASPHALT ROADWAY, ONSITE WALKS, AND LANDSCAPING.
- ONLY PROPOSED CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE INITIAL, INTERIM, AND FINAL PHASE BMP PLANS ARE SHOWN.
- APPROXIMATE EARTHWORK QUANTITIES:
 - CUT: 8000 CY (INCLUDES EXCAVATED MATERIAL FOR UNDERGROUND STRUCTURES)
 - FILL: 470 CY
- ALL EXCESS SOIL TO BE HAULED OFF SITE AND DISPOSED OF LEGALLY.
- THE PLAN SHALL NOT SUBSTANTIALLY CHANGE THE DEPTH OF COVER, OR ACCESS TO UTILITY FACILITIES. ADDITIONALLY, THE PLAN SHALL NOT INCREASE OR DIVERT WATER TOWARDS UTILITY FACILITIES. ANY CHANGES TO UTILITY FACILITIES TO ACCOMMODATE THE PLAN, MUST BE DISCUSSED AND AGREED TO BY THE AFFECTED UTILITY PRIOR TO IMPLEMENTING THE PLAN. THE RESULTING COST TO RELOCATE OR PROTECT UTILITIES, OR PROVIDE INTERIM ACCESS IS AT THE EXPENSE OF THE PERMIT HOLDER.
- PROVIDE SIGNS TO ALERT CONCRETE TRUCK DRIVERS THE LOCATION OF THE CONCRETE WASHOUT AREA.
- UTILITY TRENCH EARTHWORK SPOILS TO BE LOCATED UPGRADIENT OF TRENCH.
- AFTER ALL CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE RAW WATER INTAKE STRUCTURE ARE COMPLETE INITIATE FINAL STABILIZATION BMPs.
- AFTER ALL CONCRETE WORK AS BEEN COMPLETED REMOVE CONCRETE WASHOUT AREA.
- PORTIONS OF THE PROJECT WILL REQUIRE CONSTRUCTION ACCESS TO AREAS OUTSIDE OF THE PROJECT PROPERTY BOUNDARY. A TEMPORARY ACCESS LICENSE AGREEMENT FOR CONSTRUCTION ACCESS OUTSIDE THE FLMD RAW WATER INTAKE AND TREATMENT PLANT PROJECT PROPERTY BOUNDARY IS PROVIDED IN STORMWATER MANAGEMENT PLAN.
- SEED AND MULCH ALL AREAS AS SHOWN IN THE PLANS WITH THE SEED MIX IDENTIFIED IN THE EROSION AND STORMWATER QUALITY CONTROL PLAN.
- ALL PROPOSED AND EXISTING PIPES SHOWN ON THE PLANS ARE OWNED AND OPERATED BY THE FOREST LAKES METROPOLITAN DISTRICT THE LOCAL PUBLIC UTILITY PROVIDER.

BMP LEGEND



RAW WATER INTAKE STRUCTURE BMP PLAN

WATER TREATMENT PLANT BMP PLAN

WWE WRIGHT WATER ENGINEERS, INC.
 2490 W. 26TH AVE. SUITE 100A
 DENVER, CO 80211
 (303)480-1700 FAX(303)480-1020

NO.	BY	DATE	DESCRIPTION	COMMENTS
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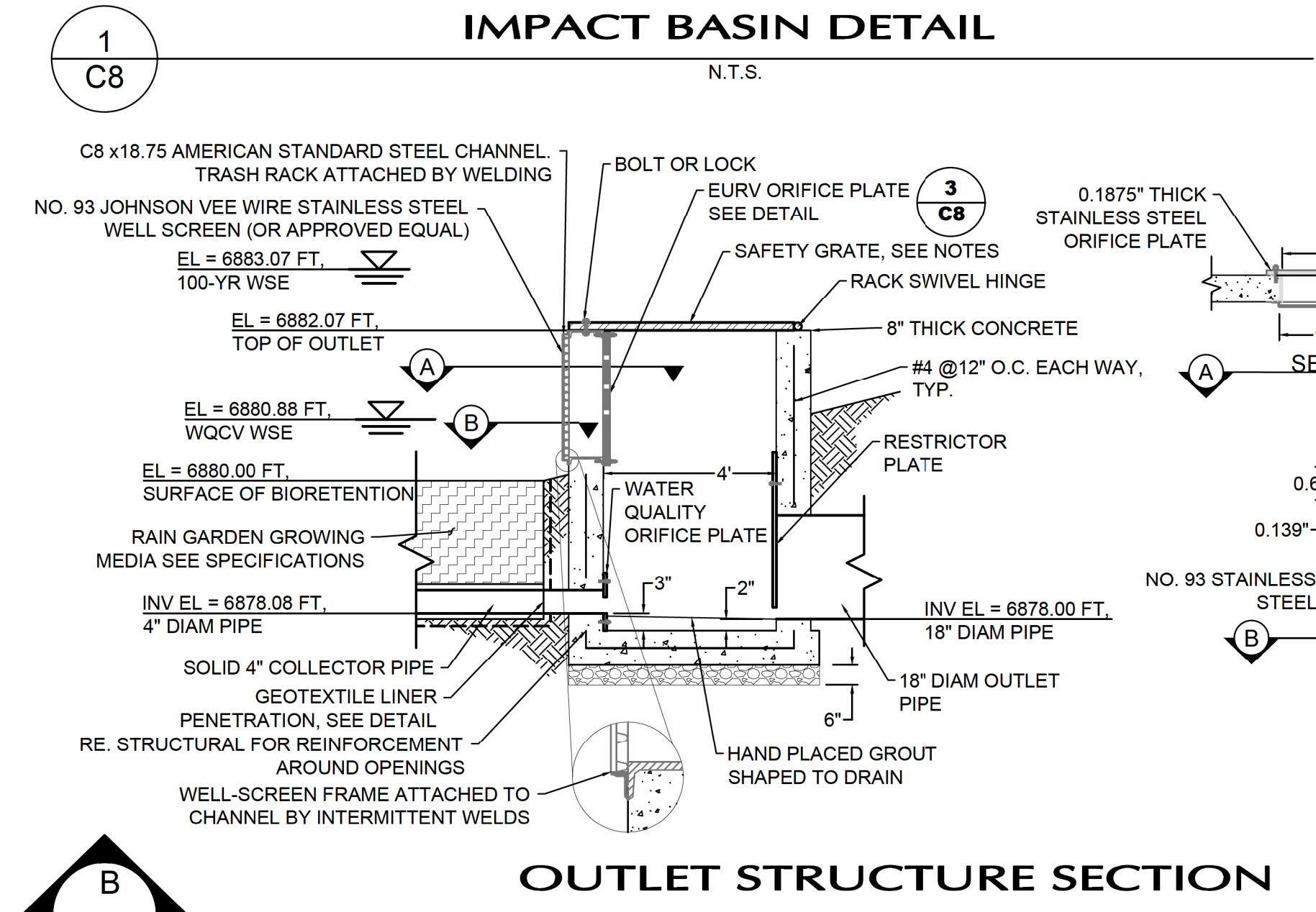
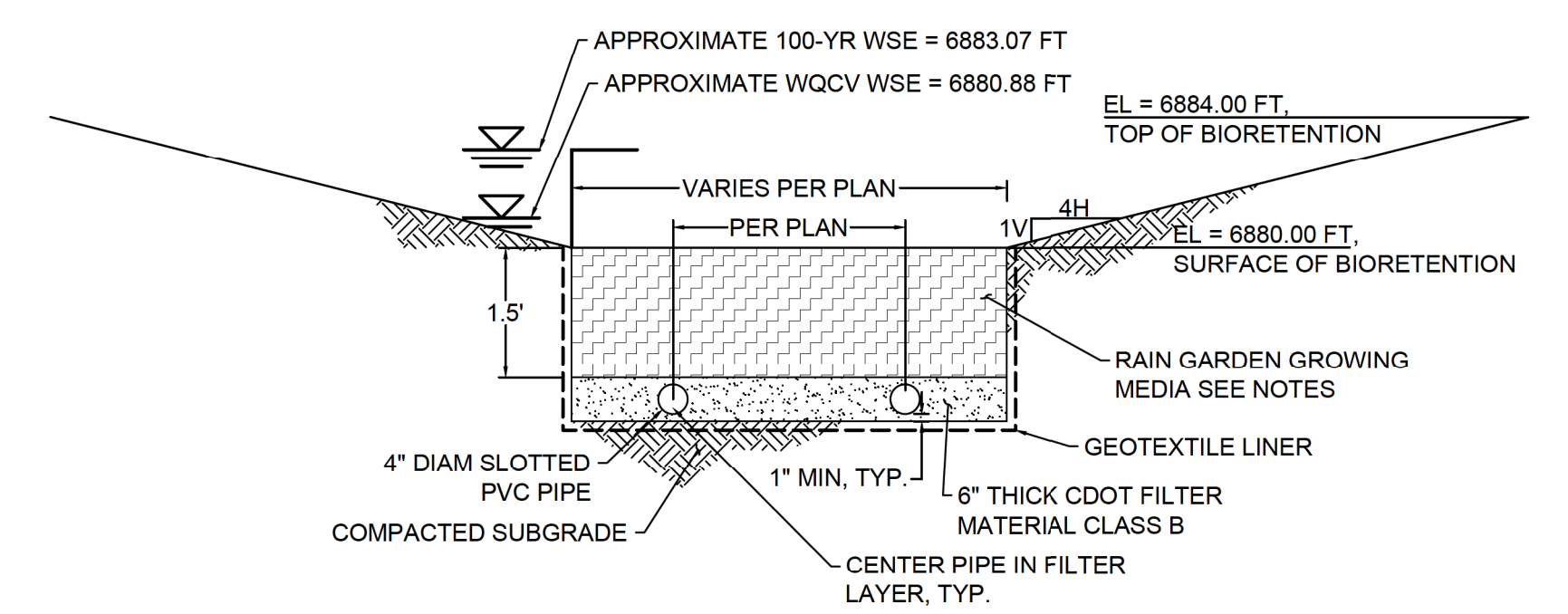
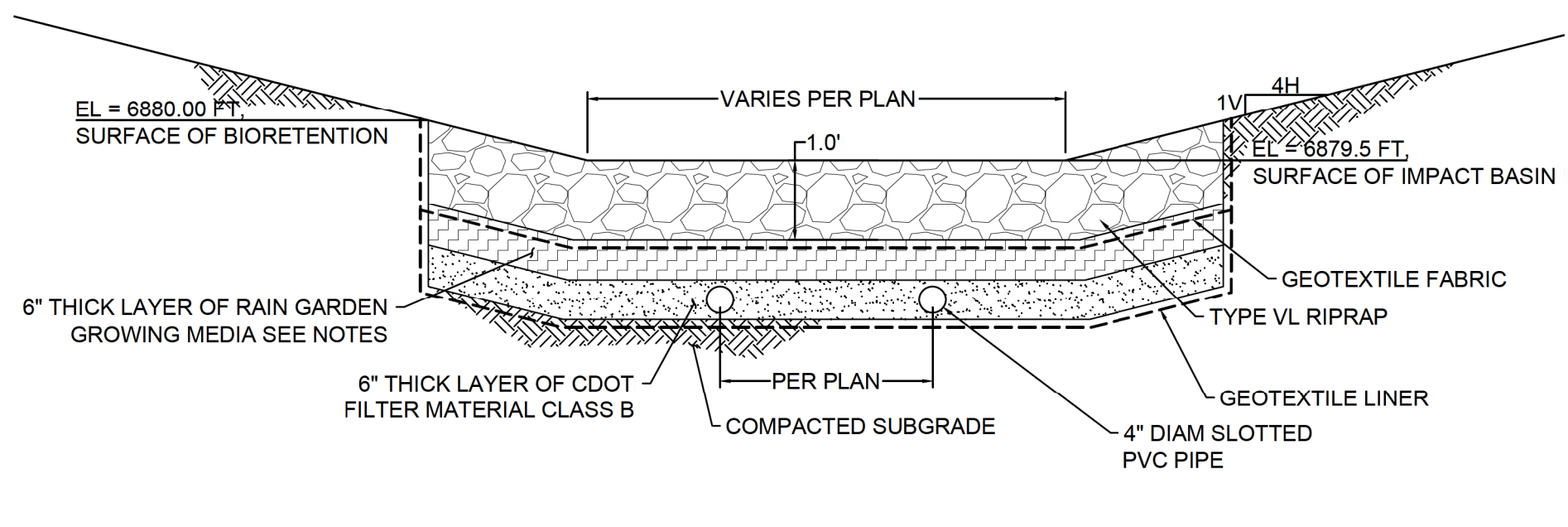
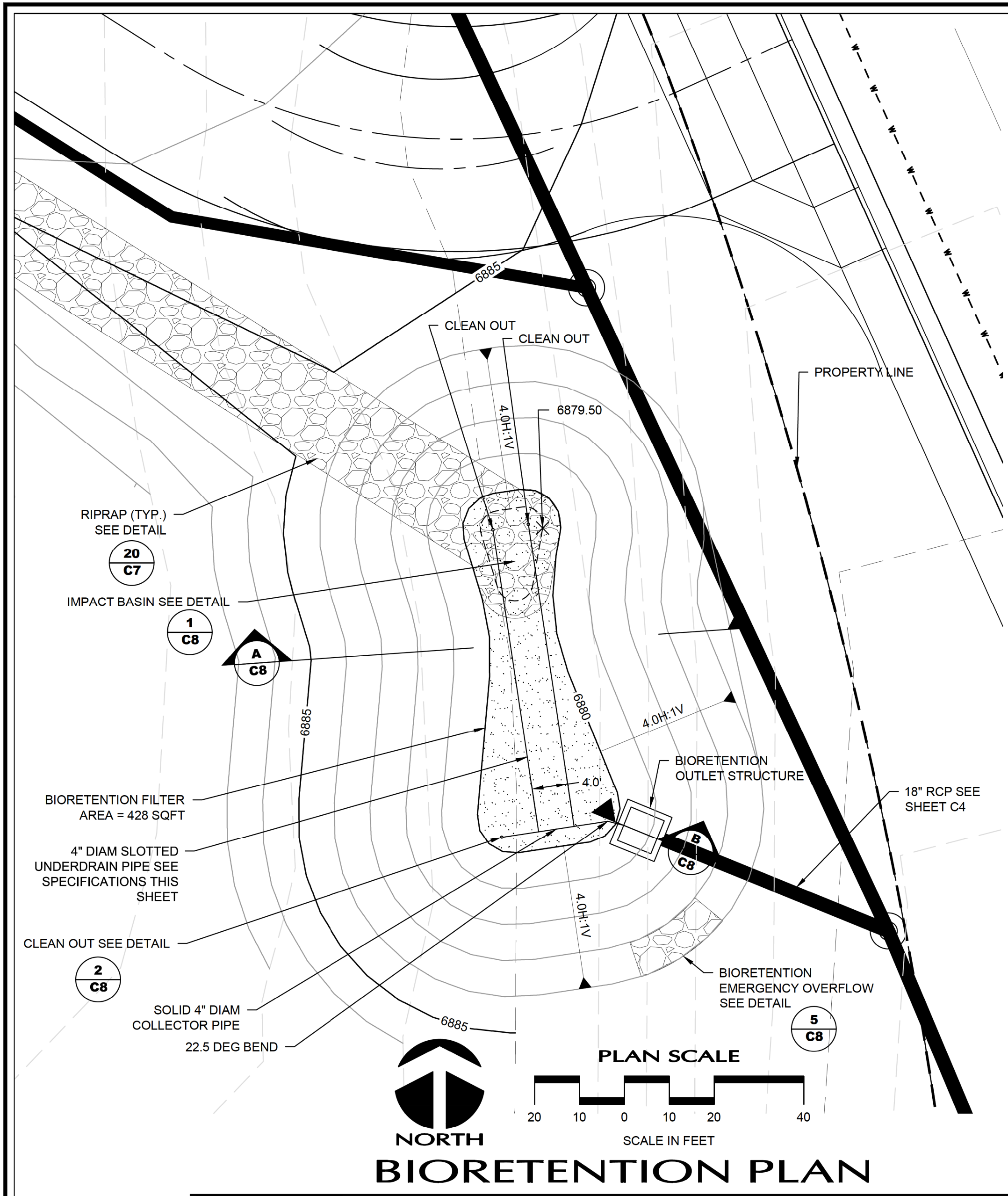
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 DETAIL: JKG 11/31/17
 CHECK: IBP 11/31/17
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 SCALE: SHOWN
 05 FINAL PHASE GECP.dwg

FOREST LAKES METROPOLITAN DISTRICT WATER INTAKE AND TREATMENT PLANT

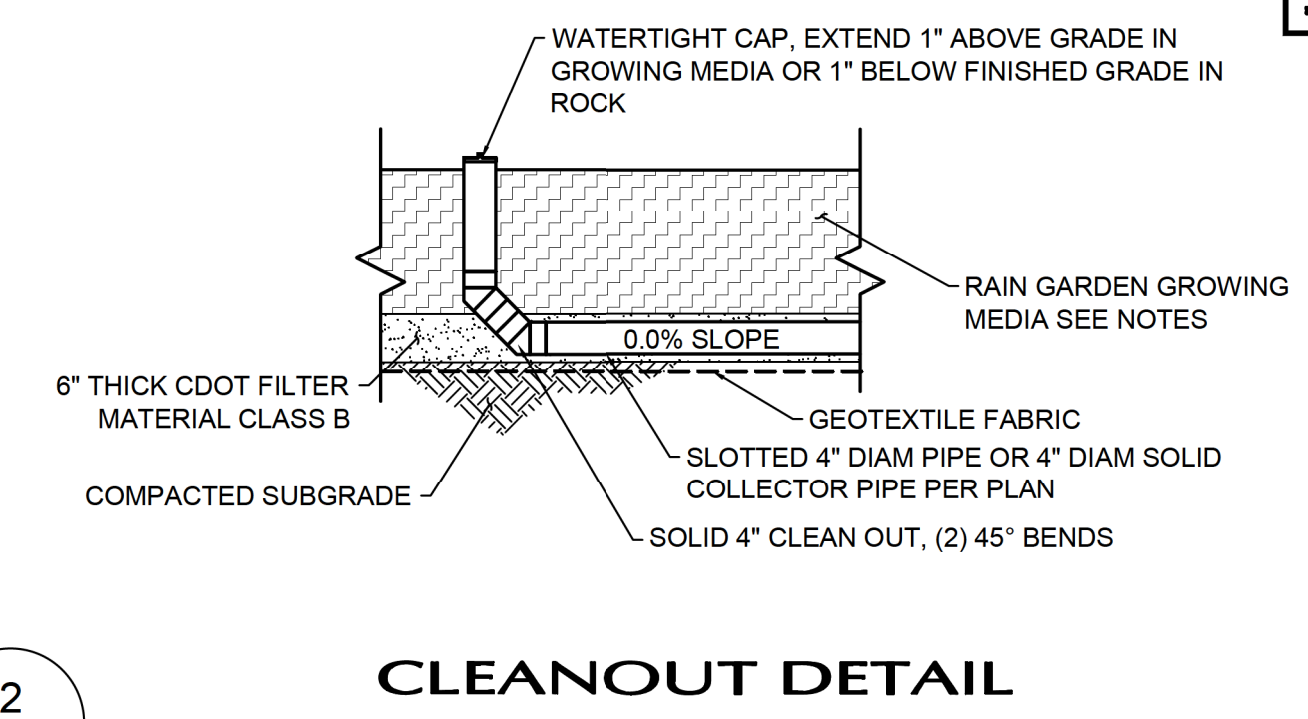
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JOB NO. 031-090.300
 REVISION NO. 2
 SHEET NO. 05

EN 1/4/18



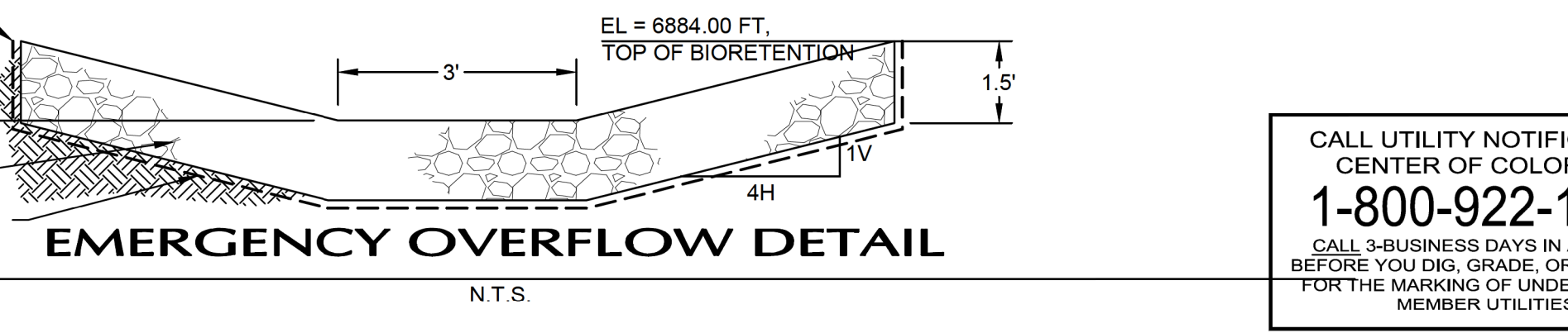
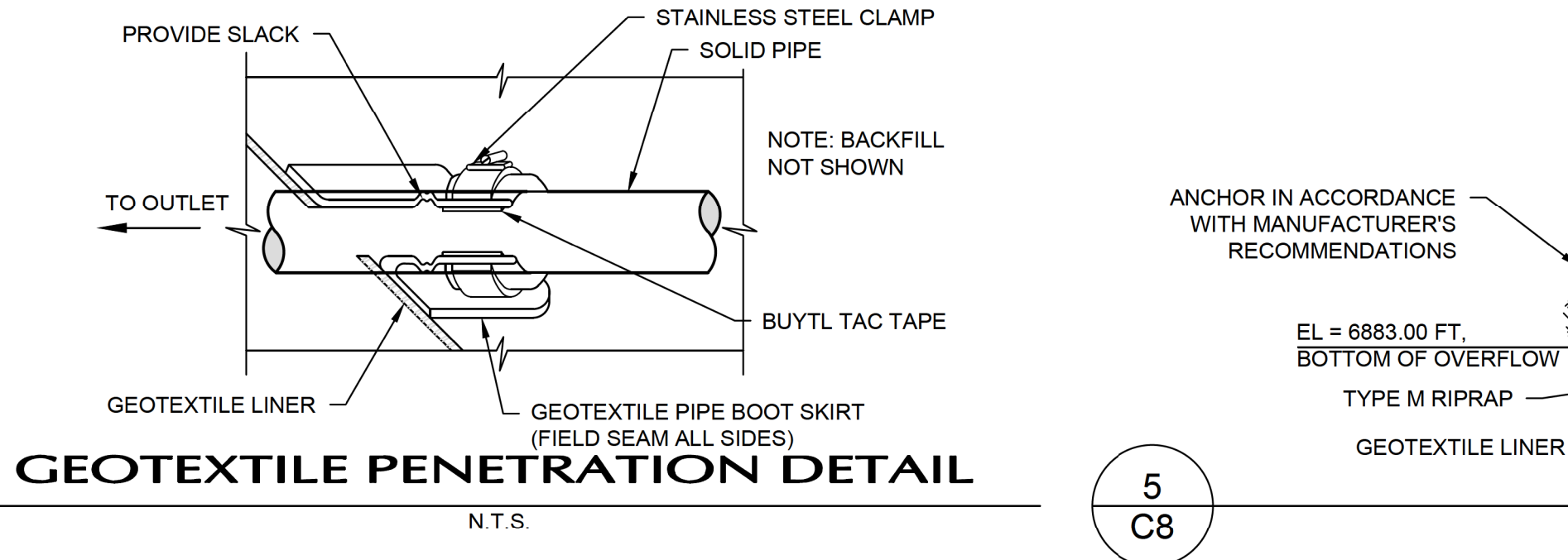
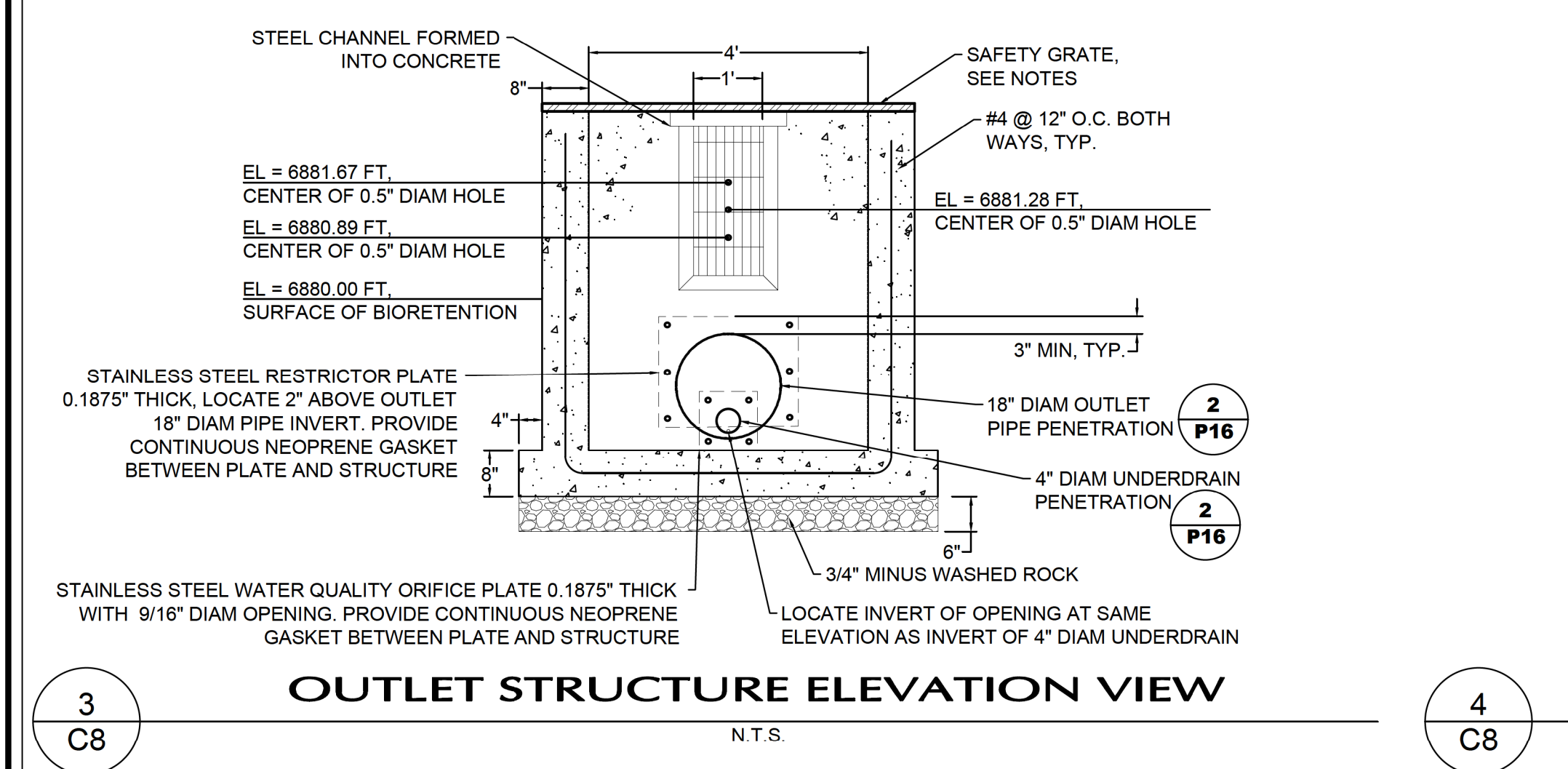
**FOR INFORMATION ONLY
NOT FOR CONSTRUCTION**



BIORETENTION NOTES AND SPECIFICATIONS

- GENERAL NOTES:**
- GEOTEXTILE LINER SHALL BE MIRAFI 170N OR APPROVED EQUAL.
 - CONCRETE REINFORCING BARS SHALL BE EPOXY COATED #4 AND SHALL HAVE A MINIMUM 2" CLEARANCE FROM ANY FACE. SEE STRUCTURAL FOR REINFORCEMENT REQUIREMENTS AROUND OPENINGS.
- ORIFICE PLATE NOTES:**
- PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE
 - BOLT PLATE TO CONCRETE 12" MAX ON CENTER.
- EURV PLATE AND TRASH RACK NOTES:**
- WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
- SAFETY GRATE:**
- ALL SAFETY GRATES SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS. SAFETY GRATE BARS SHALL BE S4 x 7.7 BEAMS.
 - SAFETY GRATES SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
 - MAXIMUM CLEAR DISTANCE BETWEEN SAFETY GRATE BARS SHALL BE 5 INCHES AND NO LESS THAN 4 INCHES.

Material	Specification	Submittals	Testing	Notes	
Bioretention Growing Media (soil + organics)	Particle size distribution: 80-90% sand (0.05 - 2.0 mm diameter) 3-17% silt (0.002-0.5 mm diameter) 3-17% clay (<0.002 diameter) Chemical attribute and nutrient analysis: pH 5.8 - 7.5 organic matter < 15% nitrogen < 15 ppm phosphorus < 15 ppm salinity < 6 mmhos/cm	Particle size distribution and nutrient analysis required.		Percentages are in weight.	
	Bioretention organics	3 to 5% shredded mulch (by weight of growing media)		bioretention soil required. Aged 6 months (minimum)	
Landscape mulch	Shredded hardwood			Aged 6 months (minimum). No weed fabric allowed.	
Underdrain aggregate	Sieve Size 37.5 mm (1.5") 19.0 mm (0.75") 4.75 mm (No. 4) 1.18 mm (No. 16) 300 um (No. 50) 150 um (No. 100) 75 um (No. 200)	Mass Percent Passing Square Mesh Sieve		Particle size distribution required.	
			Class B		Class C
			100		100
			20-60		60-100
			10-30		10-30
Underdrain Pipe	Pipe diameter and type	Maximum slot width (inches)	Minimum open area (per foot)	Required	
		4-inch slotted PVC	0.032		1.90 in. ²
6-inch slotted PVC	0.032	1.98 in. ²		Pipe must conform to requirements of ASTM designation F949. There shall be no evidence of splitting, cracking, or breaking when the pipe is tested per ASTM test method D2412 in accordance with F949 section 7.5 and ASTM F734 section 8.5.	



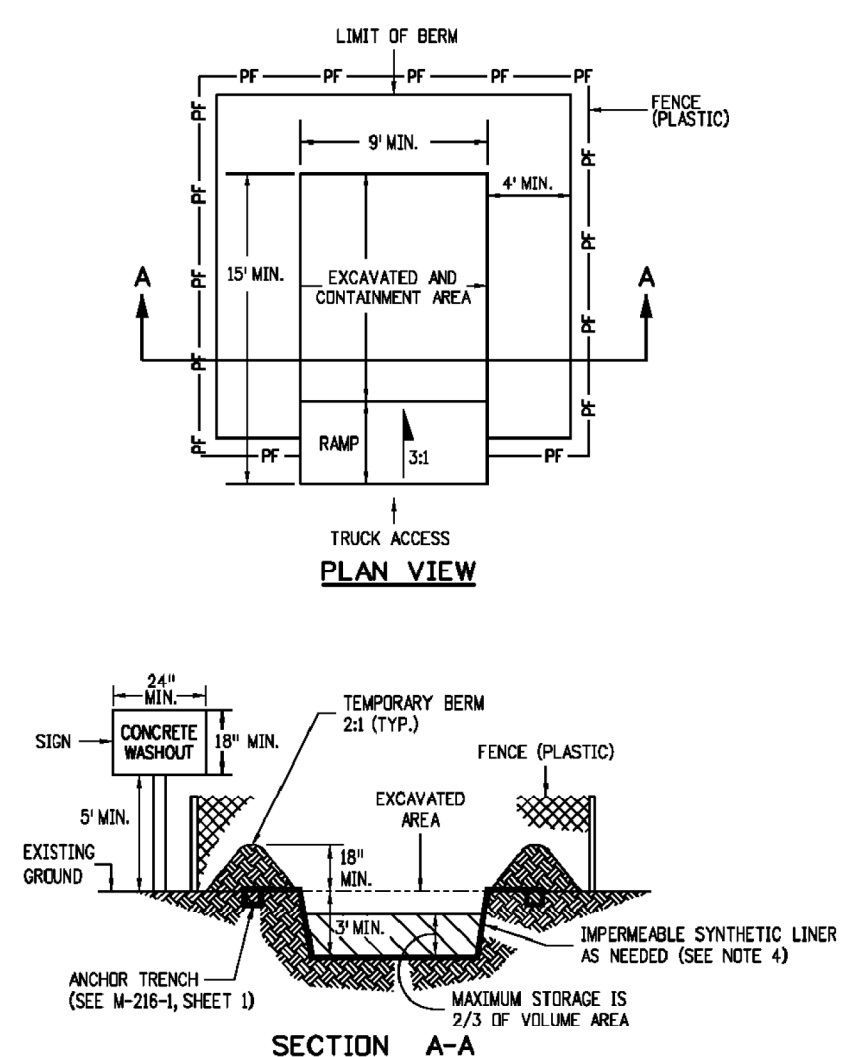
CALL UTILITY NOTIFICATION CENTER OF COLORADO
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CALL 3-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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3				
4				
5				

DATE

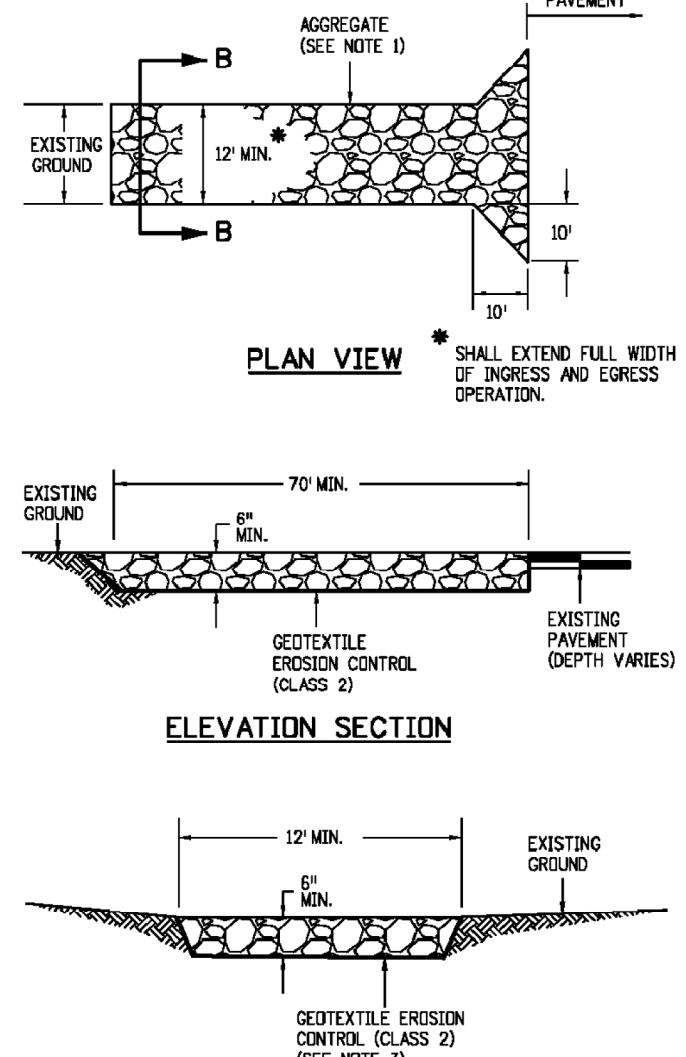
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DETAIL	JKG	11/31/17
CHECK	WFL	11/31/17
APPROVAL		
SCALE	SHOWN	

C8 BIORETENTION PLAN AND DETAILS.dwg



- NOTES:**
- A FENCE (PLASTIC) CONFORMING TO SECTION 607 SHALL BE INSTALLED AROUND THE CONCRETE WASHOUT AREA, EXCEPT AT THE OPENING.
 - THE CONCRETE WASHOUT SIGN SHALL HAVE LETTERS AT LEAST 3 INCHES HIGH AND CONFORM TO SUBSECTION 630.02.
 - ALL MATERIALS AND LABOR TO COMPLETE THE CONCRETE WASHOUT STRUCTURE SHALL BE INCLUDED IN THE COST OF WORK AND NOT PAID FOR SEPARATELY.
 - THE BOTTOM OF EXCAVATION SHALL BE A MINIMUM OF FIVE FEET ABOVE GROUND WATER. IF NOT, IT SHALL BE LINED WITH AN IMPERMEABLE SYNTHETIC LINER THAT IS DESIGNED TO CONTROL SEEPAGE AT A MAXIMUM RATE OF 6 TO 10 CENTIMETERS PER SECOND.
 - THE PAY ITEM NUMBER FOR CONCRETE WASHOUT STRUCTURE (EACH) IS 208-00045.

CONCRETE WASHOUT STRUCTURE

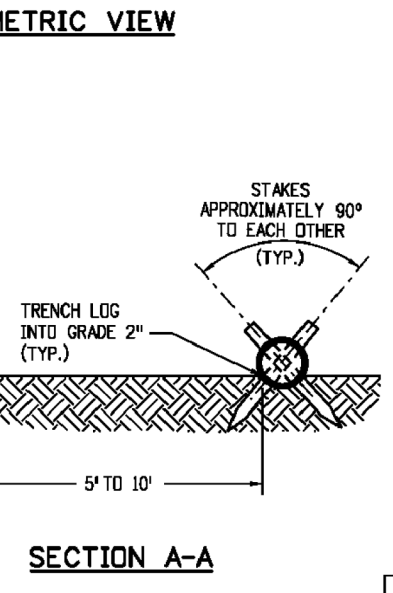
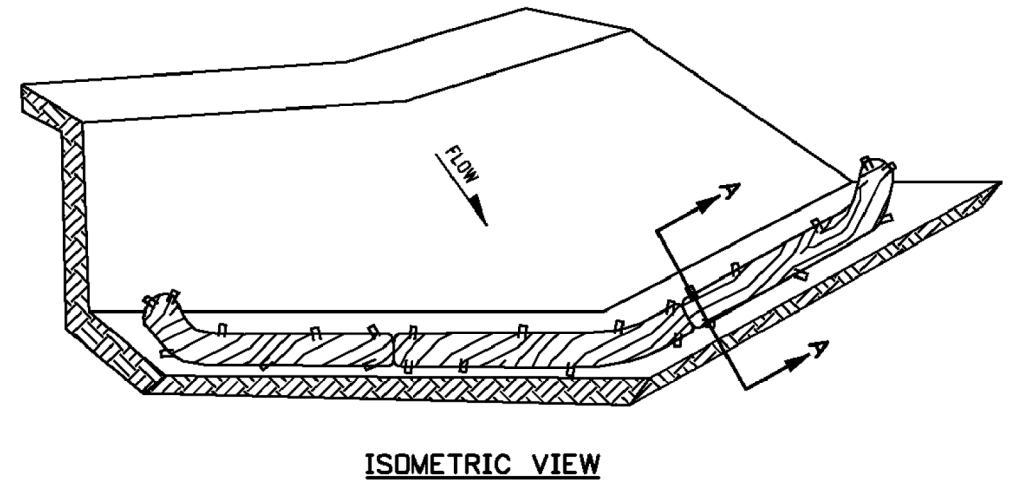


- NOTES:**
- AGGREGATE SHALL CONFORM TO SUBSECTION 208.02.00.
 - THE CONTRACTOR SHALL PROTECT CURB AND GUTTER THAT CROSSES THE ENTRANCE FROM DAMAGE. PROTECTION OF THE CURB AND GUTTER SHALL BE INCLUDED IN THE COST OF WORK AND NOT PAID FOR SEPARATELY.
 - GEOTEXTILE SHALL CONFORM TO SUBSECTION 712.08.
 - ALL MATERIALS AND LABOR TO COMPLETE THE VEHICLE TRACKING PAD SHALL BE INCLUDED IN THE COST OF WORK AND NOT PAID FOR SEPARATELY.
 - THE PAY ITEM NUMBER FOR VEHICLE TRACKING PAD (EACH) IS 208-00070.

VEHICLE TRACKING PAD

Computer File Information		Sheet Revisions		Colorado Department of Transportation		TEMPORARY EROSION CONTROL		STANDARD PLAN NO. M-208-1	
Creation Date: 07/04/12	Initials: JBK	Date: 07/16/15	Comments: [REDACTED]	4201 East Arkansas Avenue	CDOT HQ, 4th Floor	Issued By: Project Development Branch on July 4, 2012		Sheet No. 1 of 11	
Last Modification Date: 08/10/17	Initials: LTA	Date: 03/29/16	Comments: [REDACTED]	Denver, CO 80222	Phone: 303-757-9868				
Full Path: www.colorado.gov/info/business/designsupport				Division of Project Support JBK/LTA					
Drawing File Name: 208010101.dgn									
CAD Ver: MicroStation V8	Scale: Not to Scale	Units: English							

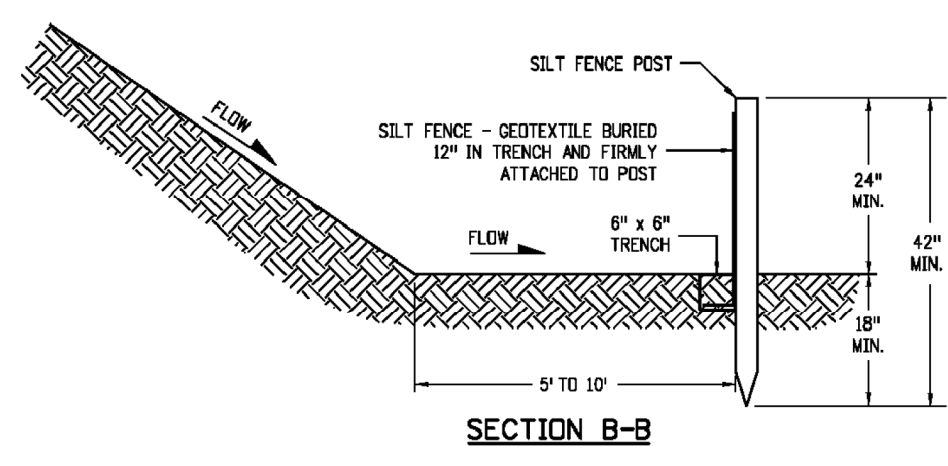
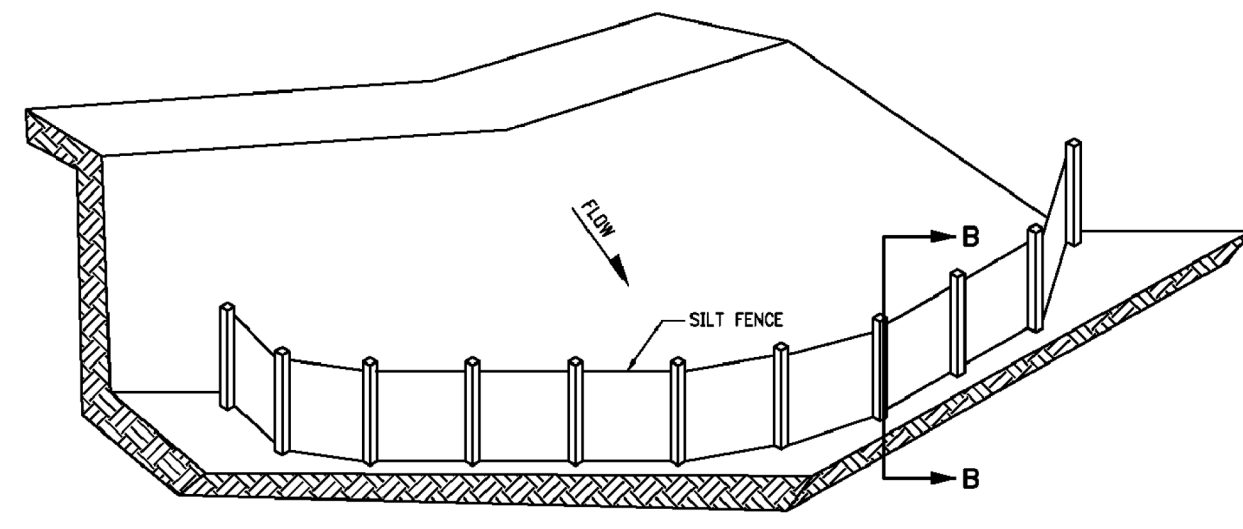
- NOTES:**
- SILT FENCE SHALL HAVE A MAXIMUM DRAINAGE AREA OF ONE-QUARTER ACRE PER 100 FEET OF SILT FENCE LENGTH. MAXIMUM SLOPE LENGTH BEHIND BARRIER IS 100 FEET; MAXIMUM GRADIENT BEHIND THE BARRIER IS 2:1.
 - SILT FENCE USED AT TOE OF SLOPE SHALL BE PLACED 5 TO 10 FEET BEYOND TOE OF SLOPE TO PROVIDE STORAGE CAPACITY.
 - SILT FENCE SHALL BE PLACED ON THE CONTOUR WITH ENDS FLARED UP SLOPE.
 - THE MAXIMUM LENGTH OF EROSION LOGS OR SILT FENCES WITHOUT A FLARED END TURNING UPSLOPE IS 150 FEET.



- NOTES:**
- EROSION LOGS USED AT TOE OF SLOPE SHALL BE PLACED 5 TO 10 FEET BEYOND TOE OF SLOPE TO PROVIDE STORAGE CAPACITY.
 - EROSION LOGS SHALL BE PLACED ON THE CONTOUR WITH ENDS FLARED UP SLOPE.
 - SEE SHEET 2 OF 11 FOR JOINING LOGS DETAIL.

NUMBER	DESCRIPTION
208-00012	TYPE 1 (9")
208-00002	TYPE 1 (12")
208-00013	TYPE 1 (20")
208-00007	TYPE 2 (8")
208-00008	TYPE 2 (12")
208-00009	TYPE 2 (18")

EROSION LOG TOE OF SLOPE PROTECTION

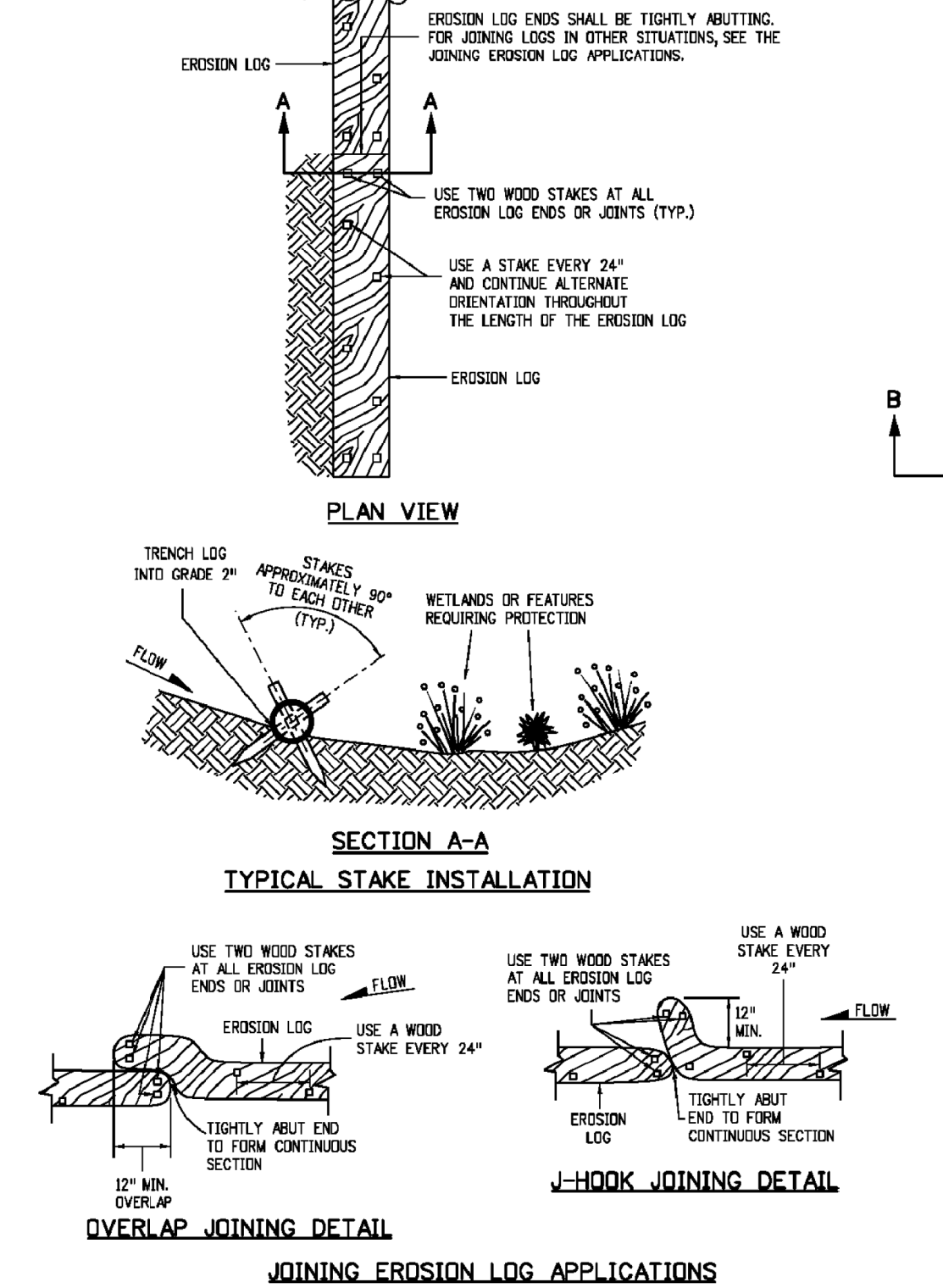


SILT FENCE TOE OF SLOPE PROTECTION

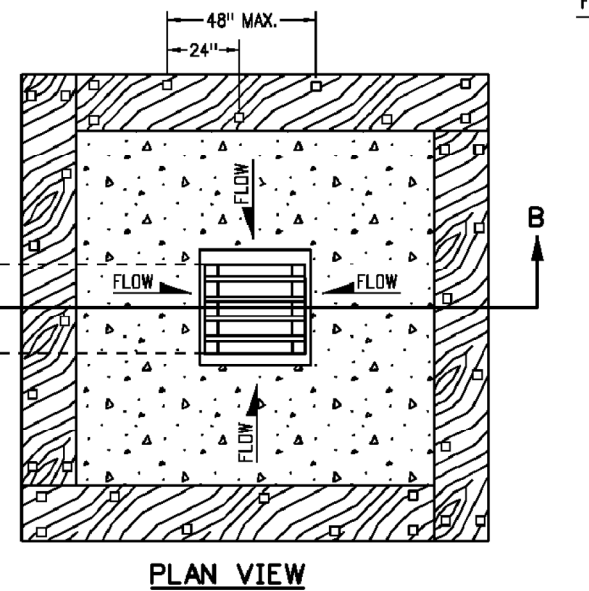
NOTE: THE PAY ITEM NUMBER FOR SILT FENCE (LF) IS 208-00020.

TOE OF SLOPE PROTECTION APPLICATIONS

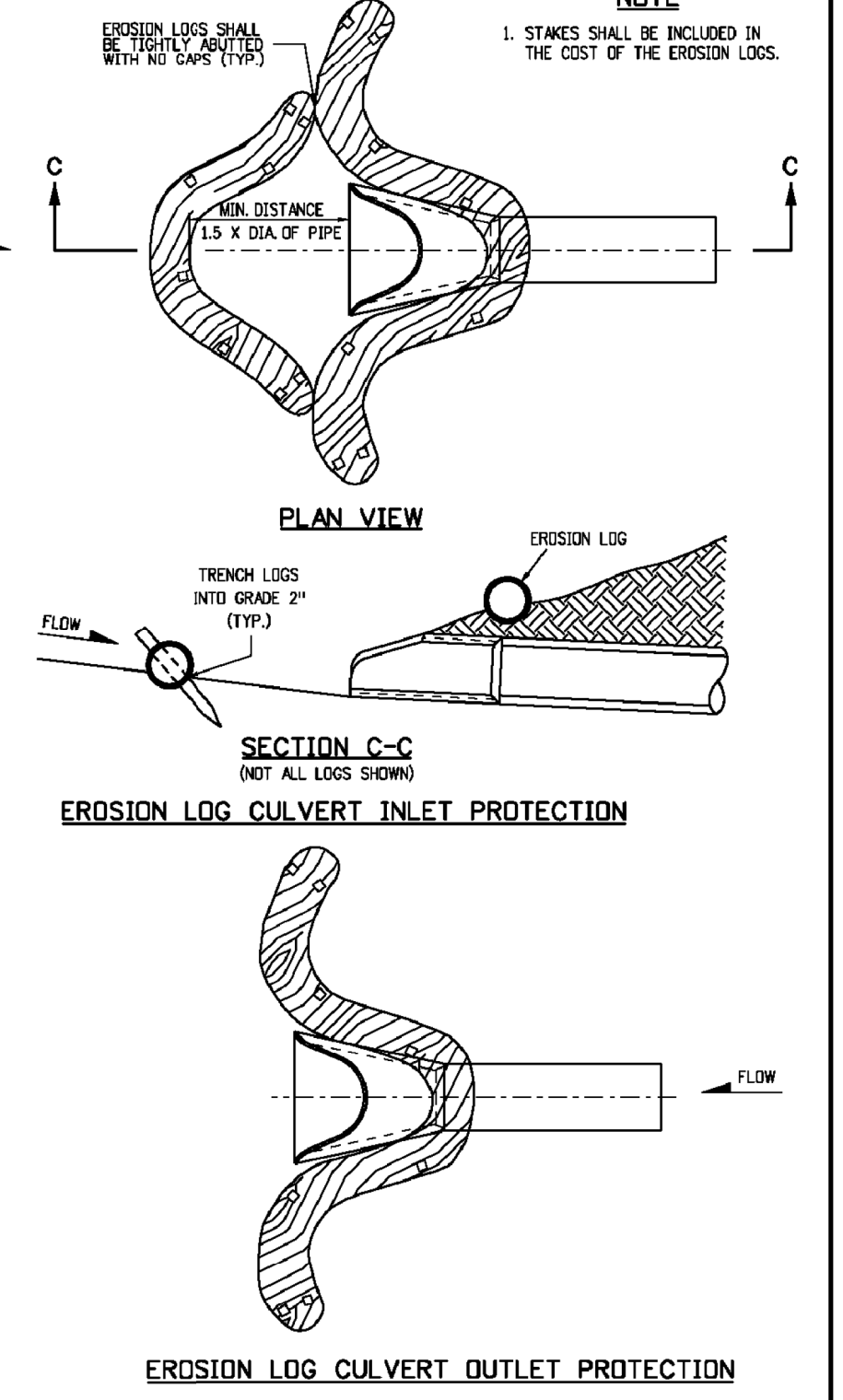
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Creation Date: 07/04/12	Initials: JBK	Date: 03/29/16	Comments: [REDACTED]	4201 East Arkansas Avenue	CDOT HQ, 4th Floor	Issued By: Project Development Branch on July 4, 2012		Sheet No. 3 of 11	
Last Modification Date: 08/10/17	Initials: LTA			Denver, CO 80222	Phone: 303-757-9868				
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NUMBER	DESCRIPTION
208-00012	TYPE 1 (9")
208-00002	TYPE 1 (12")
208-00013	TYPE 1 (20")
208-00007	TYPE 2 (8")
208-00008	TYPE 2 (12")
208-00009	TYPE 2 (18")



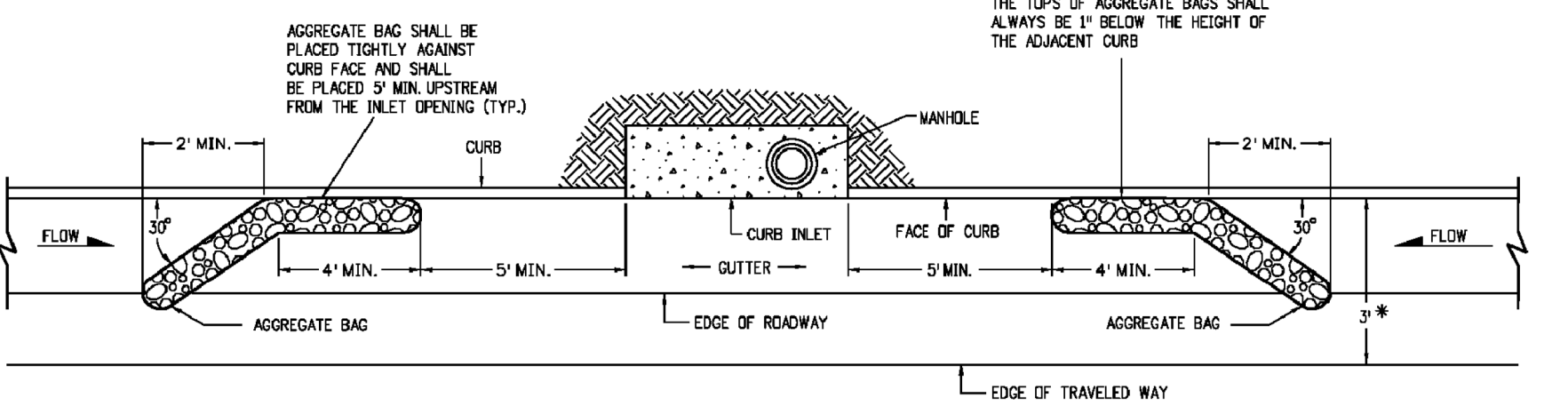
EROSION LOG FILTER AT DROP INLET



EROSION LOG CULVERT INLET PROTECTION

EROSION LOG CULVERT OUTLET PROTECTION

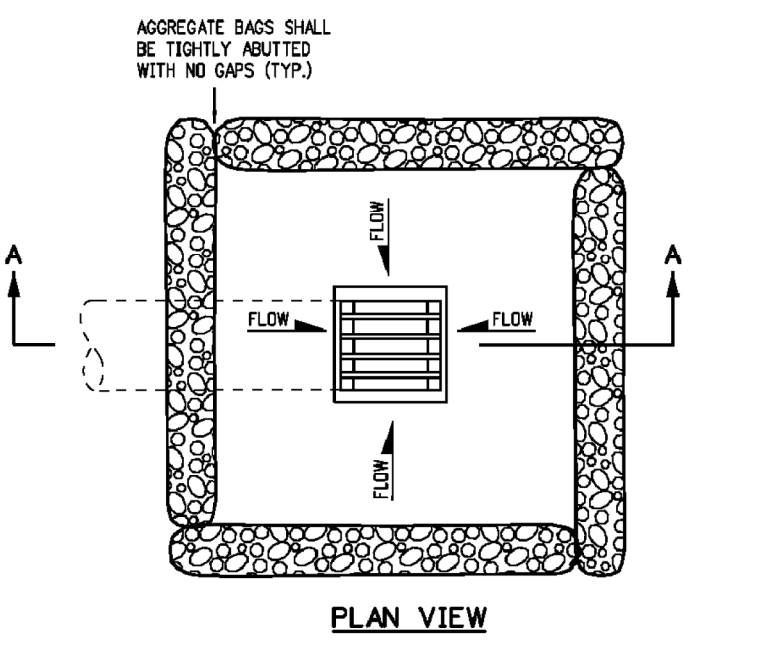
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Creation Date: 07/04/12	Initials: JBK	Date: 03/29/16	Comments: [REDACTED]	4201 East Arkansas Avenue	CDOT HQ, 4th Floor	Issued By: Project Development Branch on July 4, 2012		Sheet No. 2 of 11	
Last Modification Date: 08/10/17	Initials: LTA			Denver, CO 80222	Phone: 303-757-9868				
Full Path: www.colorado.gov/info/business/designsupport				Division of Project Support JBK/LTA					
Drawing File Name: 2080102011.dgn									
CAD Ver: MicroStation V8	Scale: Not to Scale	Units: English							



- NOTE:** USE AGGREGATE BAGS ONLY WHEN THERE IS A MINIMUM CLEARANCE OF 3 FEET FROM THE EDGE OF THE TRAVELED WAY TO THE FACE OF CURB.

LENGTH OF INLET (L)	NUMBER OF AGGREGATE BAGS UPSTREAM OF INLET
0 - 5'	1
6' - 10'	2
L > 10'	3

AGGREGATE BAGS AT STORM DRAIN INLET (TYPE 1)



AGGREGATE BAGS AT DROP INLET

AGGREGATE BAG APPLICATIONS

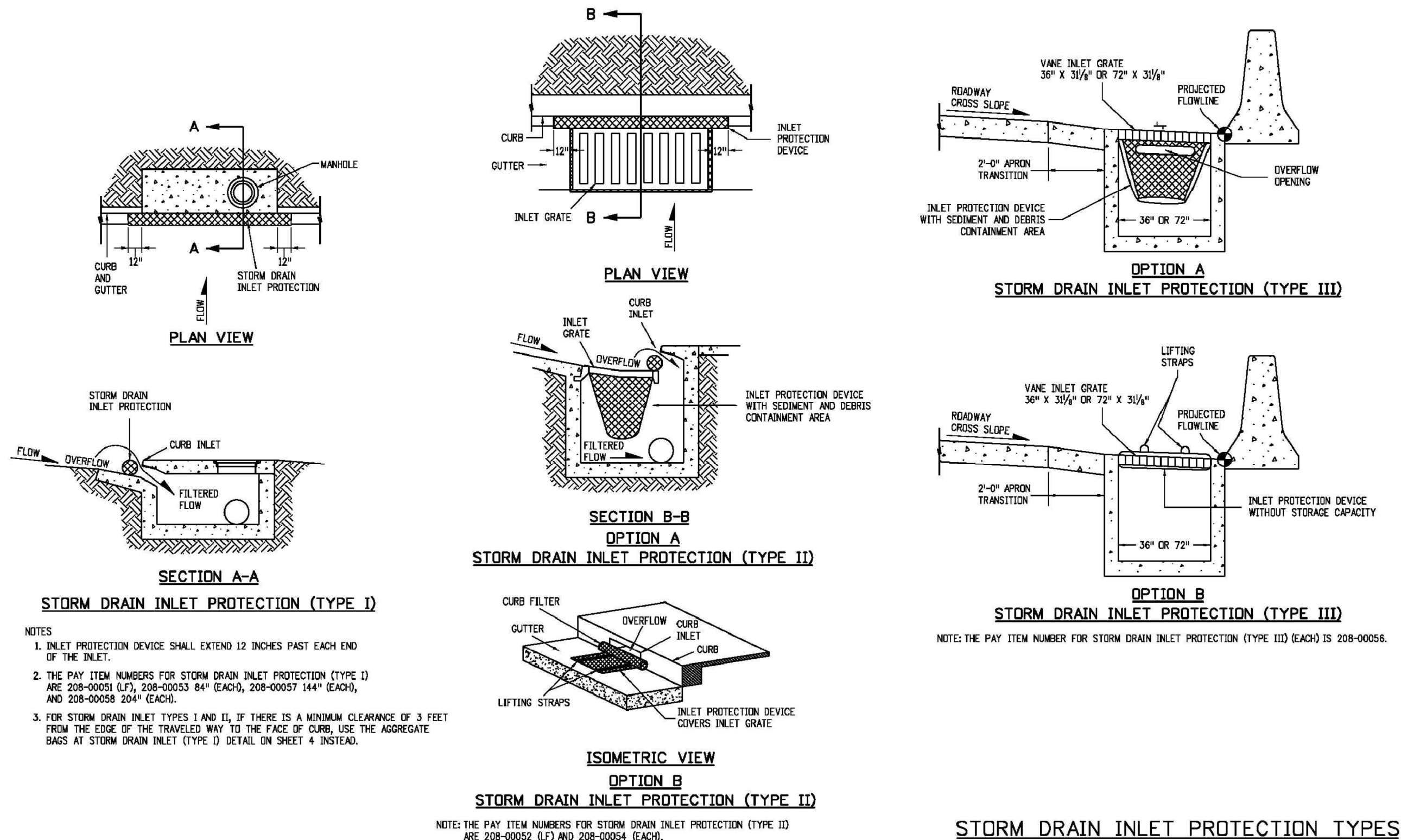
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Computer File Information		Sheet Revisions		Colorado Department of Transportation		TEMPORARY EROSION CONTROL		STANDARD PLAN NO. M-208-1	
Creation Date: 07/04/12	Initials: JBK	Date: 03/29/16	Comments: [REDACTED]	4201 East Arkansas Avenue	CDOT HQ, 4th Floor	Issued By: Project Development Branch on July 4, 2012		Sheet No. 4 of 11	
Last Modification Date: 08/10/17	Initials: LTA			Denver, CO 80222	Phone: 303-757-9868				
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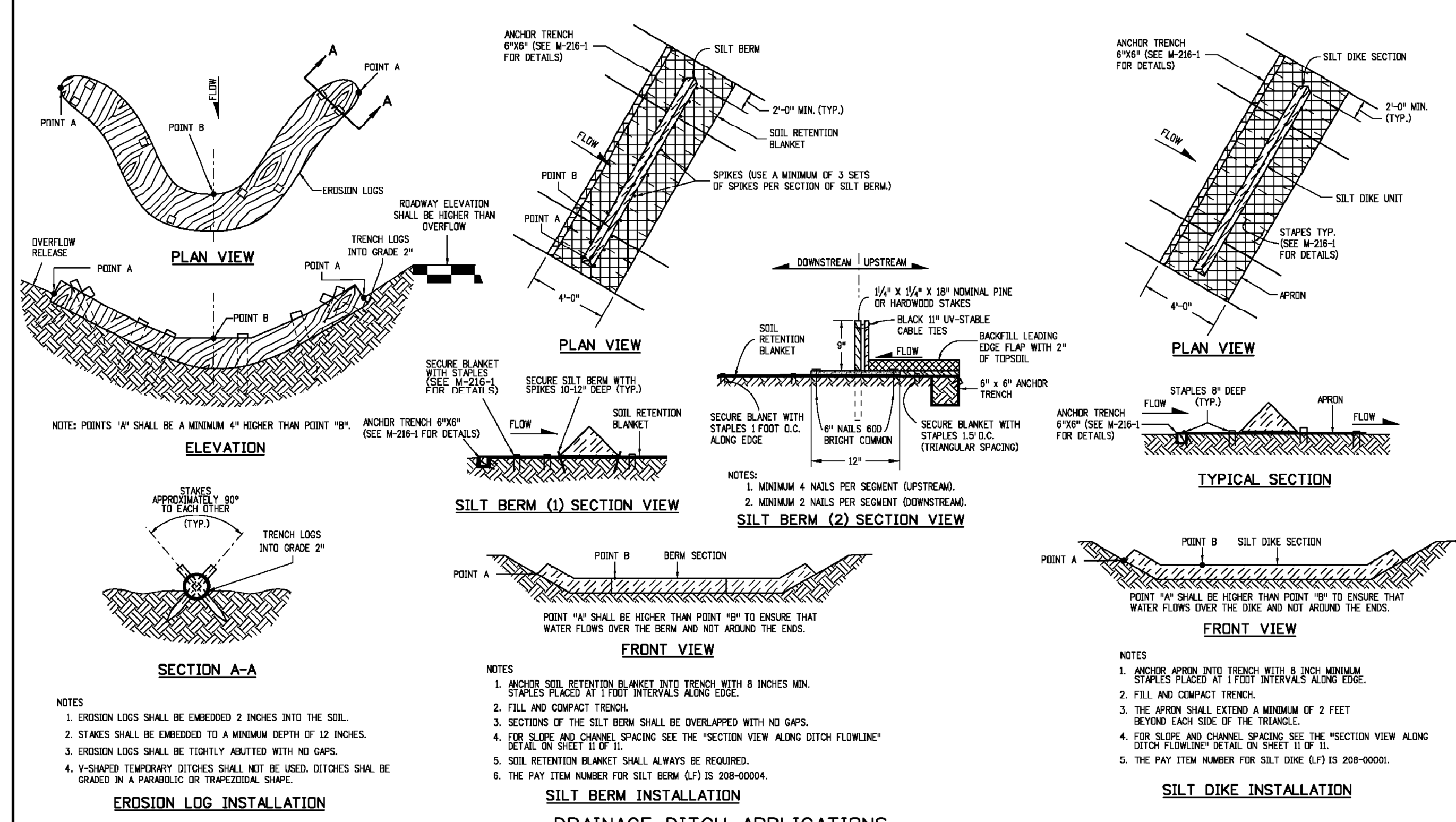
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3			
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COMMENTS

	DATE
DESIGN	HAL 11/31/17
DETAIL	JKG 11/31/17
CHECK	IBR 11/31/17
APPROVAL	
SCALE	NOT TO SCALE
08 GECP DETAILS-2.dwg	



STORM DRAIN INLET PROTECTION TYPES



DRAINAGE DITCH APPLICATIONS

Computer File Information		Sheet Revisions	
Creation Date: 07/04/12	Initials: JBK	Date:	Comments
Last Modification Date: 08/10/17	Initials: LTA	03/29/16	Added Note 3.
Full Path: www.coloradodo.com/business/designsupport		08/10/17	Added new pay item numbers
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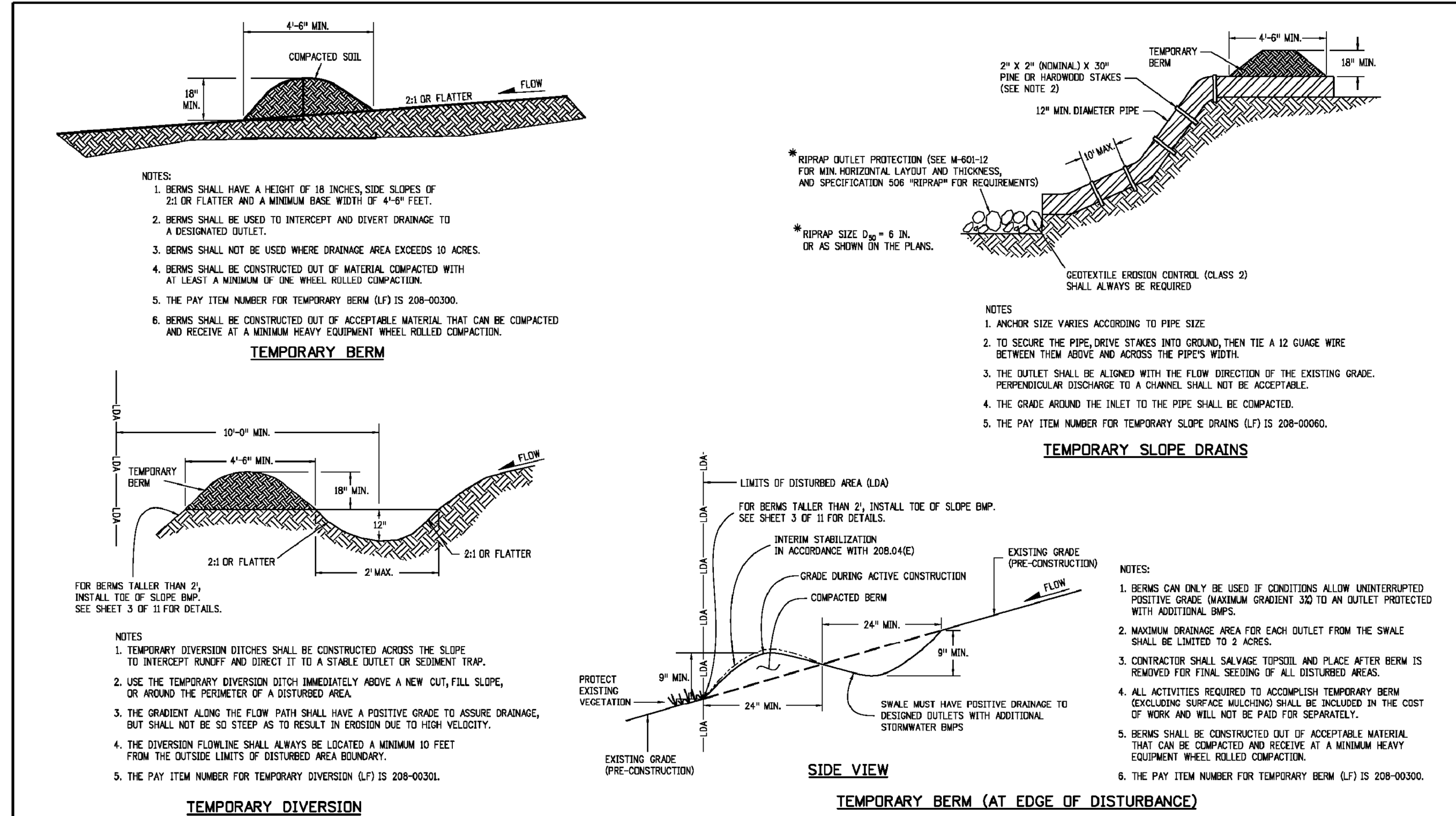
Colorado Department of Transportation	
4201 East Arkansas Avenue CDOT HQ, 4th Floor Denver, CO 80222 Phone: 303-757-9021 FAX: 303-757-9868	
Division of Project Support JBK/LTA	

TEMPORARY EROSION CONTROL	STANDARD PLAN NO.
Issued By: Project Development Branch on July 4, 2012	M-208-1
	Sheet No. 5 of 11

Computer File Information		Sheet Revisions	
Creation Date: 07/04/12	Initials: JBK	Date:	Comments
Last Modification Date: 08/10/17	Initials: LTA	03/29/16	Minor revisions to some dimensions and notes
Full Path: www.coloradodo.com/business/designsupport		05/26/16	See Note 3. Backfill not paid
Drawing File Name: 208010801.dgn			
CAD Ver: MicroStation V8	Scale: Not to Scale	Units: English	

Colorado Department of Transportation	
4201 East Arkansas Avenue CDOT HQ, 4th Floor Denver, CO 80222 Phone: 303-757-9021 FAX: 303-757-9868	
Division of Project Support JBK/LTA	

TEMPORARY EROSION CONTROL	STANDARD PLAN NO.
Issued By: Project Development Branch on July 4, 2012	M-208-1
	Sheet No. 6 of 11

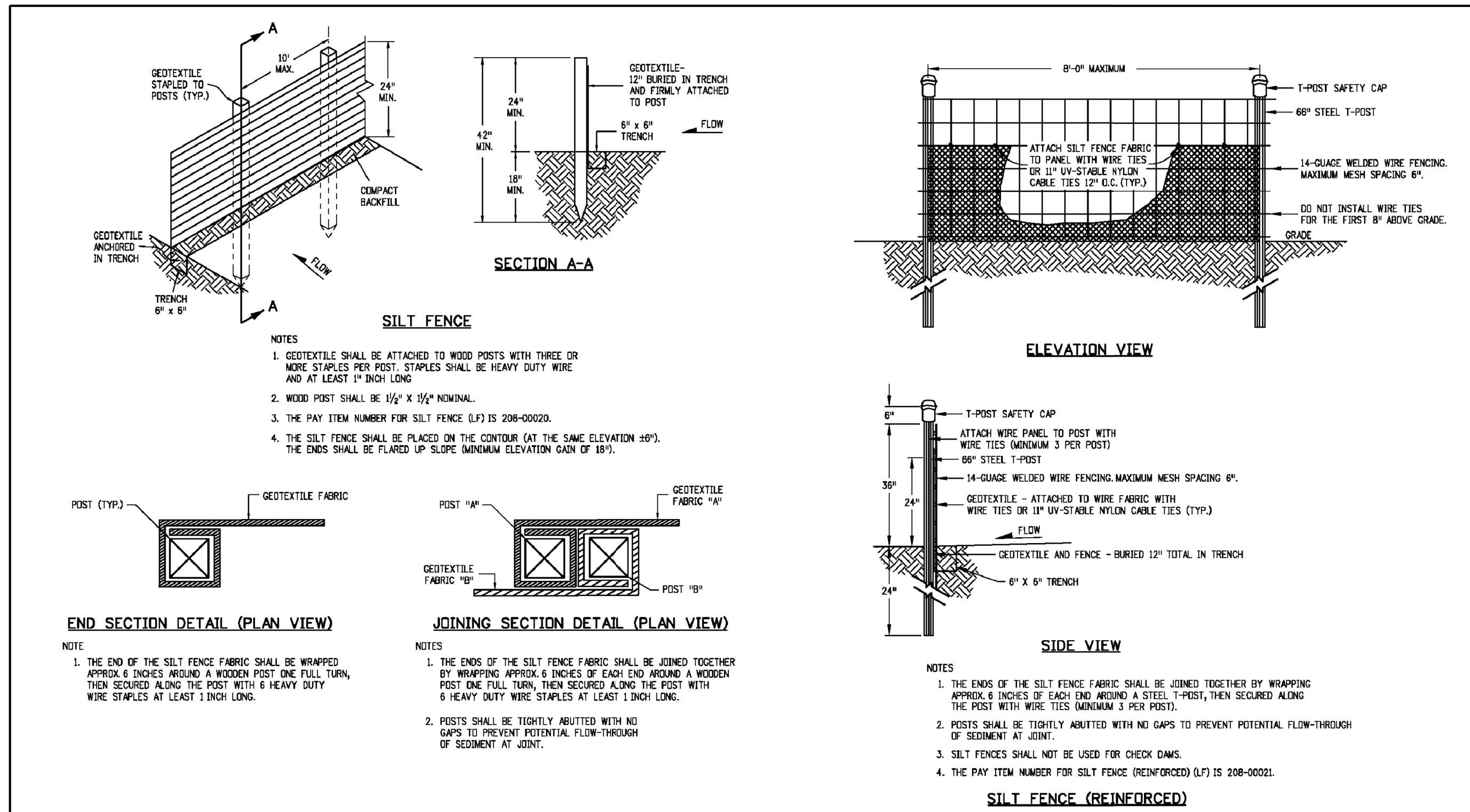


GRADING APPLICATIONS

Computer File Information		Sheet Revisions	
Creation Date: 07/04/12	Initials: JBK	Date:	Comments
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Colorado Department of Transportation	
4201 East Arkansas Avenue CDOT HQ, 4th Floor Denver, CO 80222 Phone: 303-757-9021 FAX: 303-757-9868	
Division of Project Support JBK/LTA	

TEMPORARY EROSION CONTROL	STANDARD PLAN NO.
Issued By: Project Development Branch on July 4, 2012	M-208-1
	Sheet No. 7 of 11



SILT FENCE APPLICATIONS

Computer File Information		Sheet Revisions	
Creation Date: 07/04/12	Initials: JBK	Date:	Comments
Last Modification Date: 08/10/17	Initials: LTA	03/29/16	Minor revisions to some dimensions and notes
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4201 East Arkansas Avenue CDOT HQ, 4th Floor Denver, CO 80222 Phone: 303-757-9021 FAX: 303-757-9868	
Division of Project Support JBK/LTA	

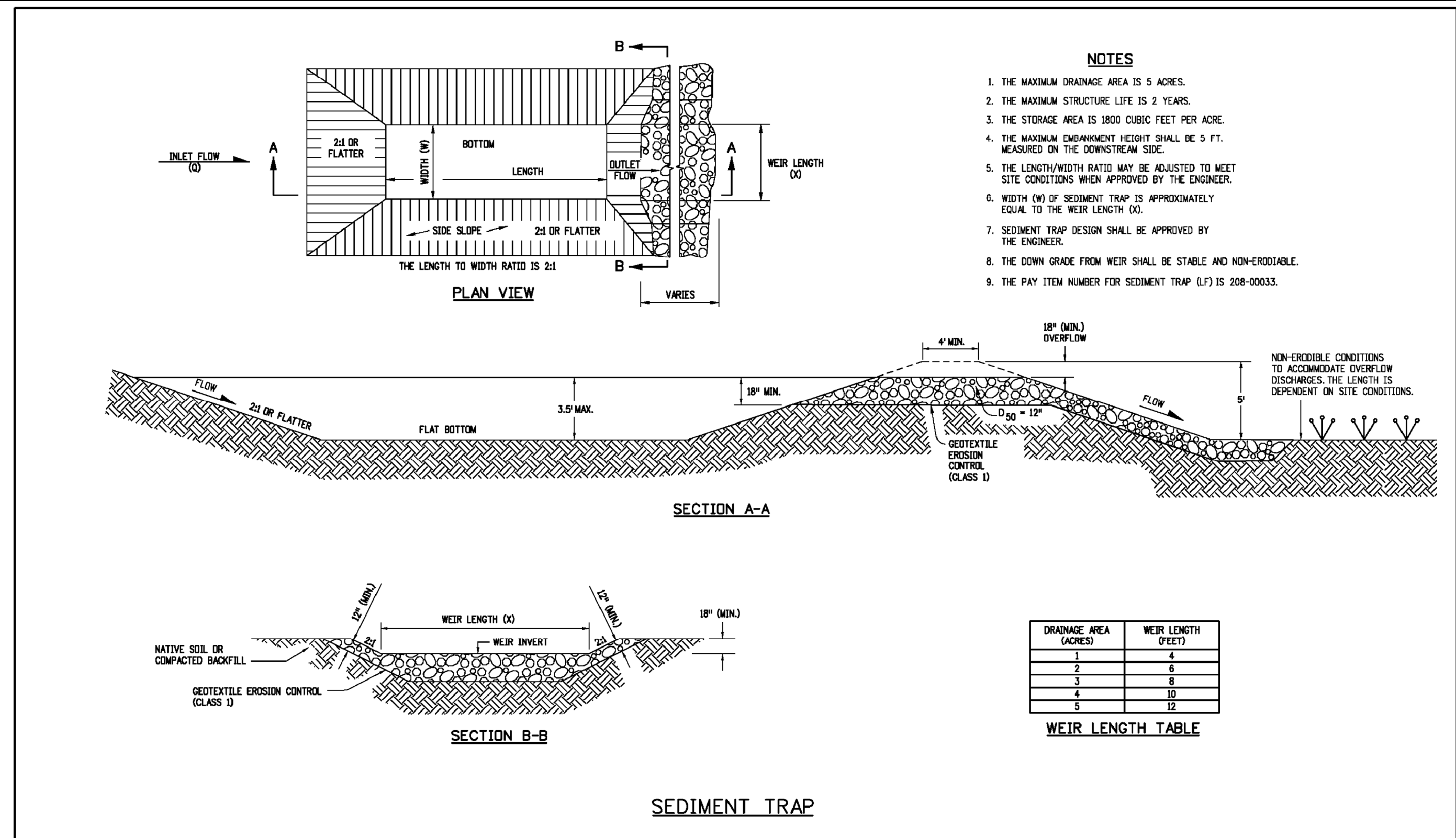
TEMPORARY EROSION CONTROL	STANDARD PLAN NO.
Issued By: Project Development Branch on July 4, 2012	M-208-1
	Sheet No. 8 of 11

NO.	BY	DATE	DESCRIPTION
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2			
3			
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5			

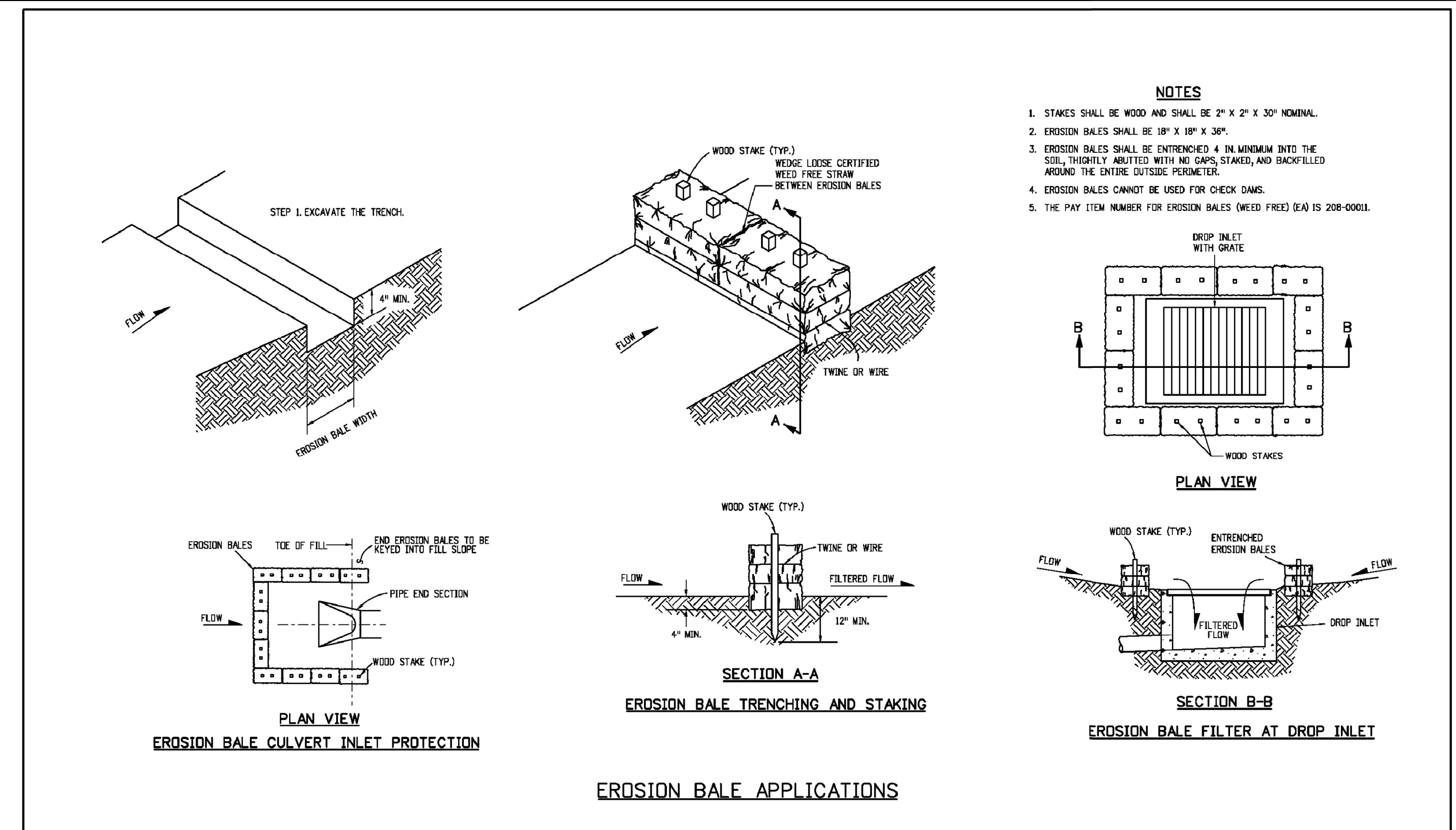
COMMENTS



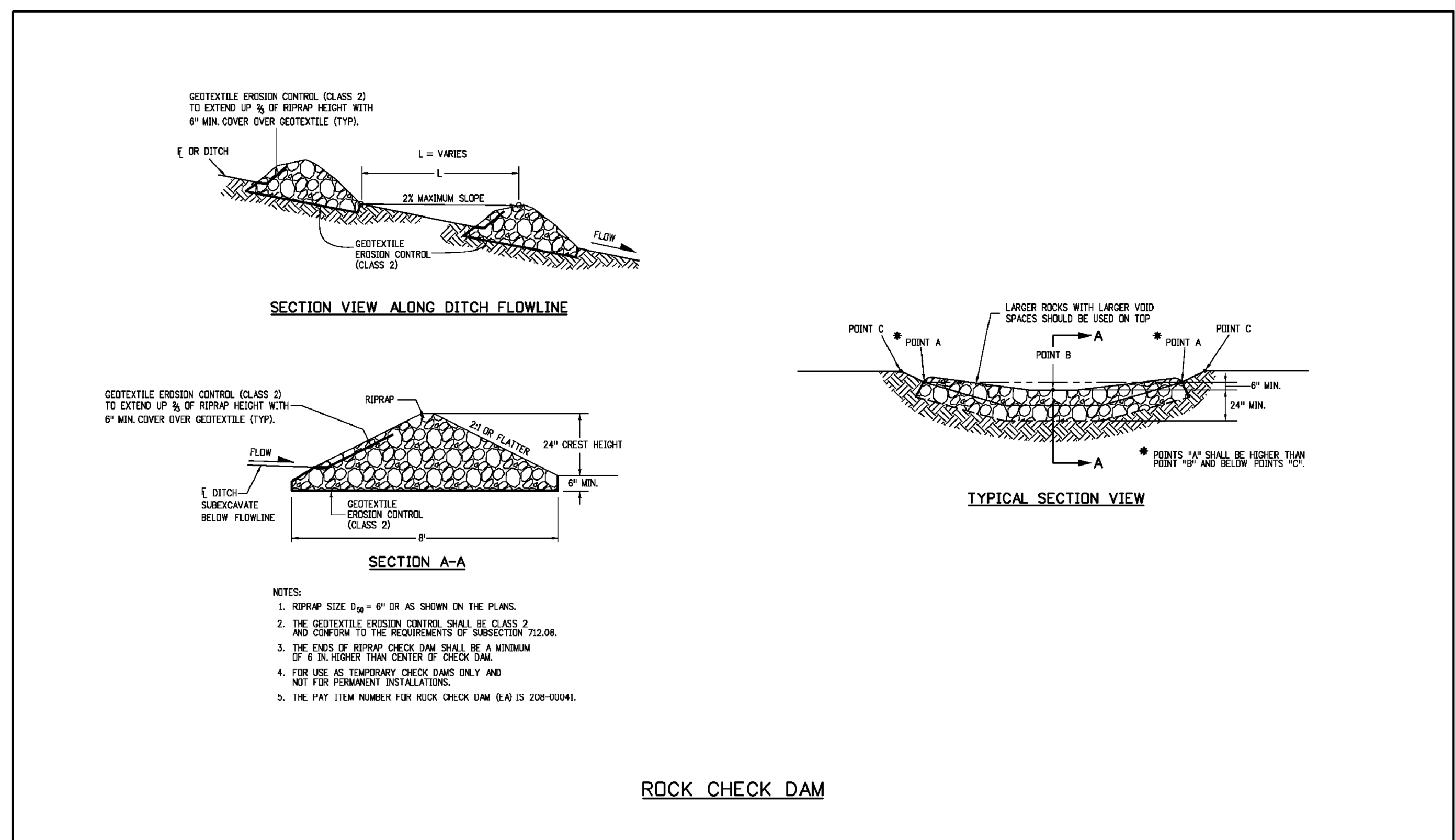
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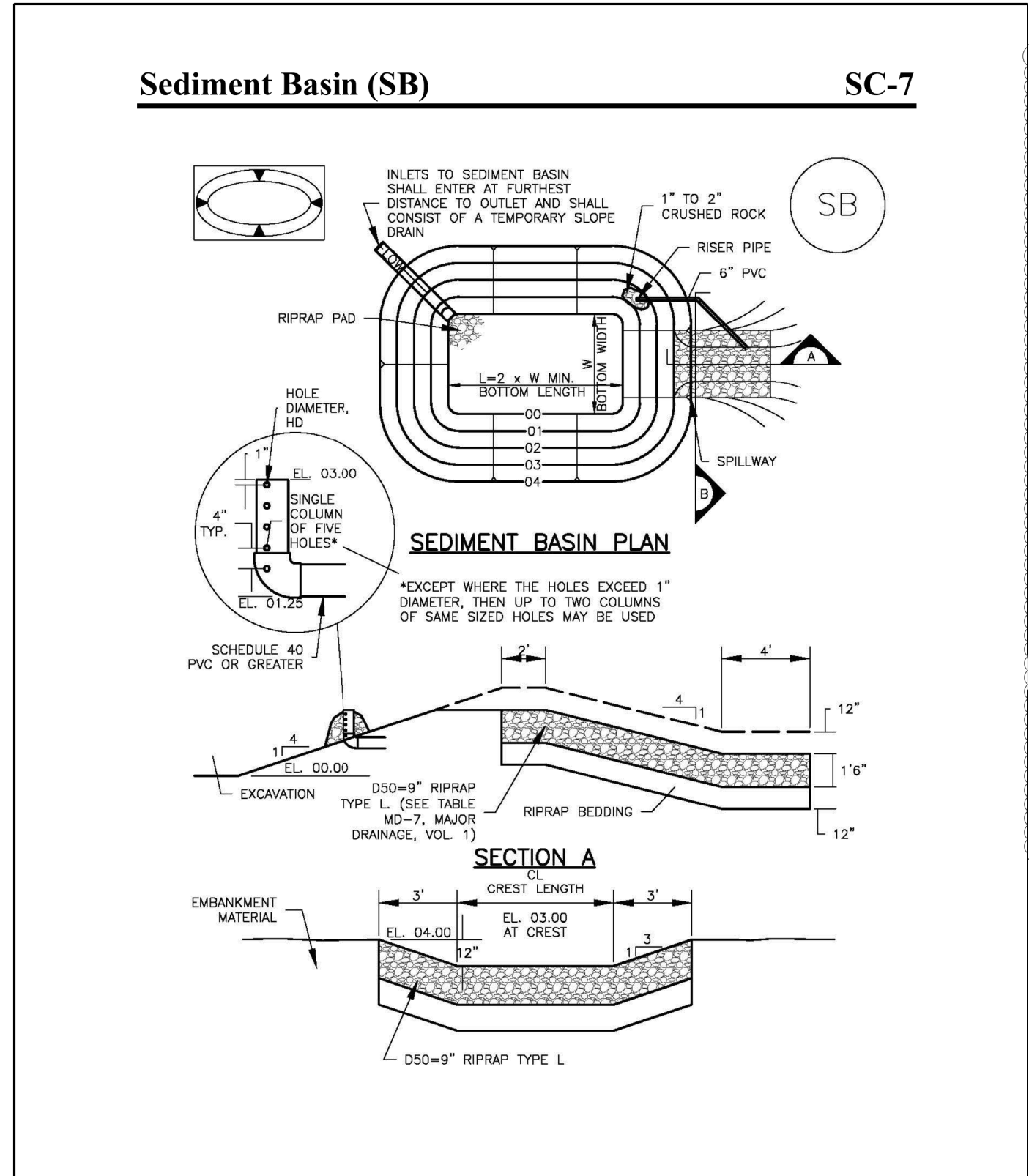
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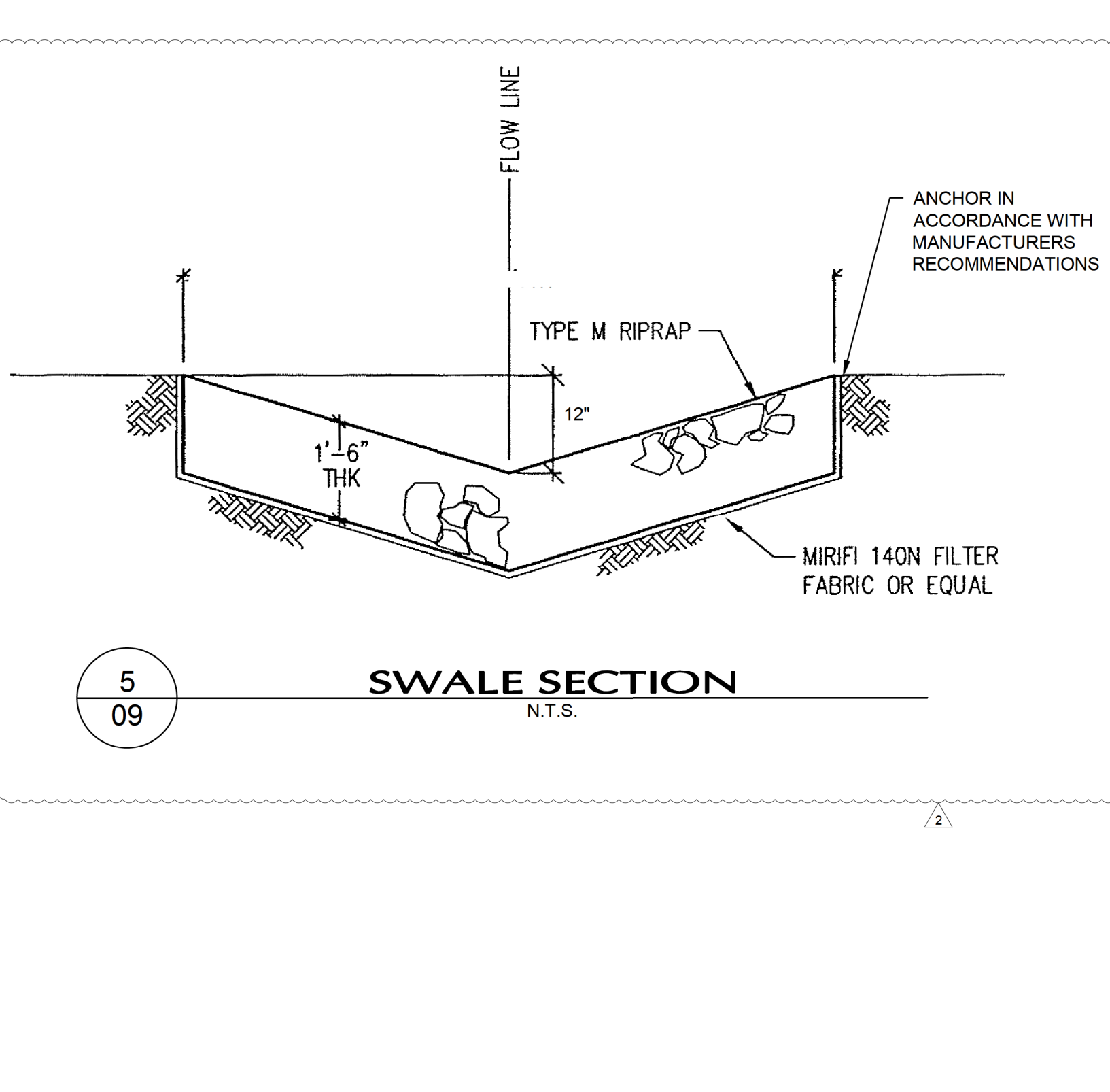
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Computer File Information Creation Date: 07/04/12 Last Modification Date: 08/10/17 Full Path: www.coloradodot.info/business/designsupport Drawing File Name: 208010101.dgn CAD Ver: MicroStation V8 Scale: Not to Scale Units: English	Sheet Revisions Date: 03/29/16 Comments: Minor revisions to some dimensions.	Colorado Department of Transportation 4201 East Arkansas Avenue CDOT HQ, 4th Floor Denver, CO 80222 Phone: 303-757-9021 FAX: 303-757-9868 Division of Project Support JBK/LTA	TEMPORARY EROSION CONTROL Issued By: Project Development Branch on July 4, 2012	STANDARD PLAN NO. M-208-1 Sheet No. 11 of 11
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Computer File Information Creation Date: 07/04/12 Last Modification Date: 08/10/17 Full Path: www.coloradodot.info/business/designsupport Drawing File Name: 208010101.dgn CAD Ver: MicroStation V8 Scale: Not to Scale Units: English	Sheet Revisions Date: 03/29/16 Comments: Minor revisions to some dimensions.	Colorado Department of Transportation 4201 East Arkansas Avenue CDOT HQ, 4th Floor Denver, CO 80222 Phone: 303-757-9021 FAX: 303-757-9868 Division of Project Support JBK/LTA	TEMPORARY EROSION CONTROL Issued By: Project Development Branch on July 4, 2012	STANDARD PLAN NO. M-208-1 Sheet No. 11 of 11
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Computer File Information Creation Date: 07/04/12 Last Modification Date: 08/10/17 Full Path: www.coloradodot.info/business/designsupport Drawing File Name: 208010101.dgn CAD Ver: MicroStation V8 Scale: Not to Scale Units: English	Sheet Revisions Date: 03/29/16 Comments: Minor revisions to some dimensions.	Colorado Department of Transportation 4201 East Arkansas Avenue CDOT HQ, 4th Floor Denver, CO 80222 Phone: 303-757-9021 FAX: 303-757-9868 Division of Project Support JBK/LTA	TEMPORARY EROSION CONTROL Issued By: Project Development Branch on July 4, 2012	STANDARD PLAN NO. M-208-1 Sheet No. 11 of 11
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WWE WRIGHT WATER ENGINEERS, INC.
2490 W. 26TH AVE. SUITE 100A
DENVER, CO 80211
(303)480-1700 FAX(303)480-1020

NO.	BY	DATE	DESCRIPTION
1	HAL	11/31/2017	ISSUED FOR EL PASO COUNTY REVIEW
2	HAL	12/8/2017	REISSUED FOR EL PASO COUNTY REVIEW

NO.	BY	DATE	DESCRIPTION
1	HAL	11/31/2017	ISSUED FOR EL PASO COUNTY REVIEW
2	HAL	12/8/2017	REISSUED FOR EL PASO COUNTY REVIEW

COLORADO LICENSE
Professional Engineer
No. 46527
Wright Water Engineers, Inc.

DATE	DESIGN	HAL	11/31/17
11/31/17	DETAIL	JKG	11/31/17
11/31/17	CHECK	IBR	11/31/17
11/31/17	APPROVAL		
11/31/17	SCALE	SHOWN	

FOREST LAKES METROPOLITAN DISTRICT WATER INTAKE AND TREATMENT PLANT

GECP DETAILS-3

EN 1/4/18

JOB NO. 031-090.300
REVISION NO. 2
SHEET NO. 09