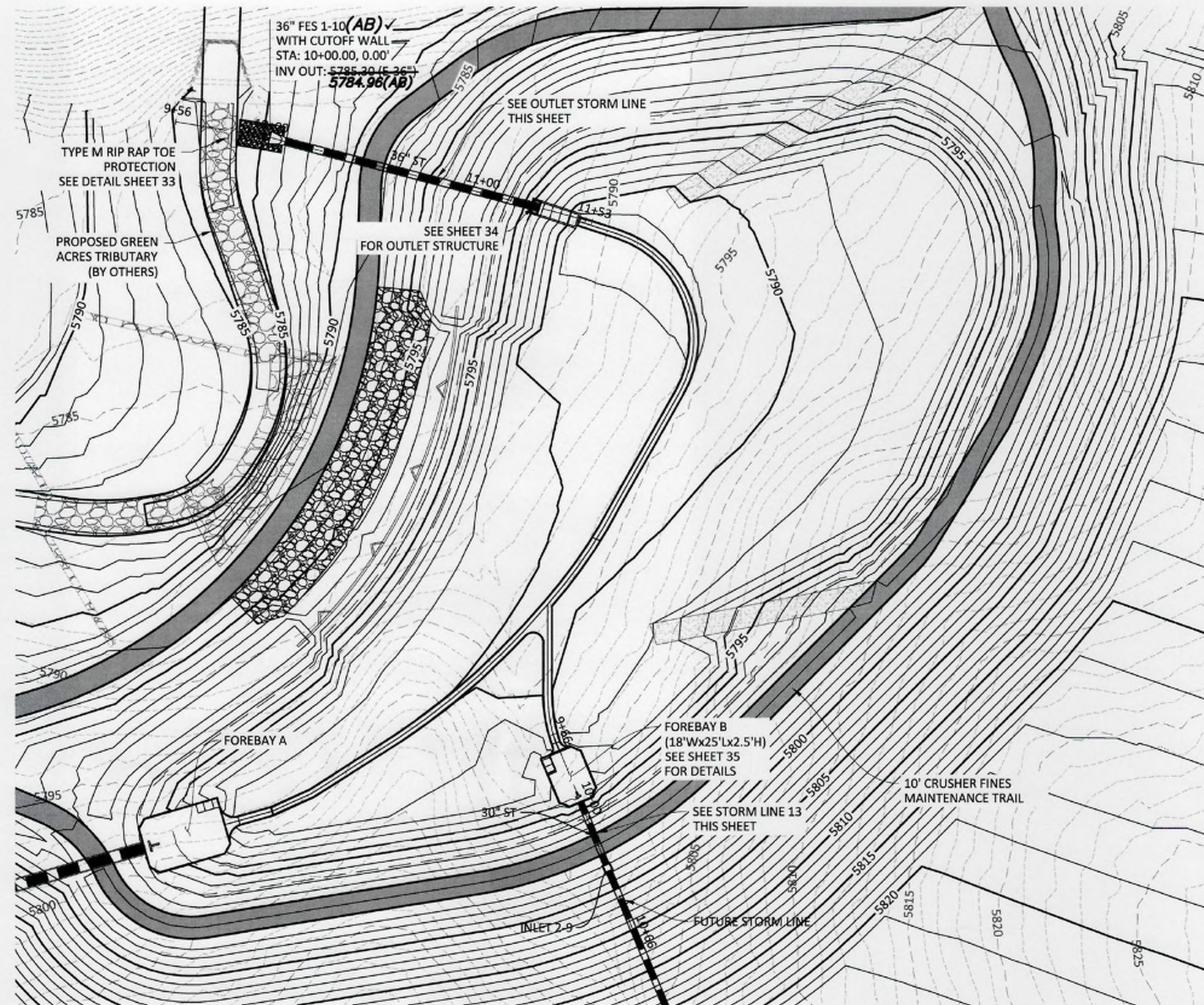
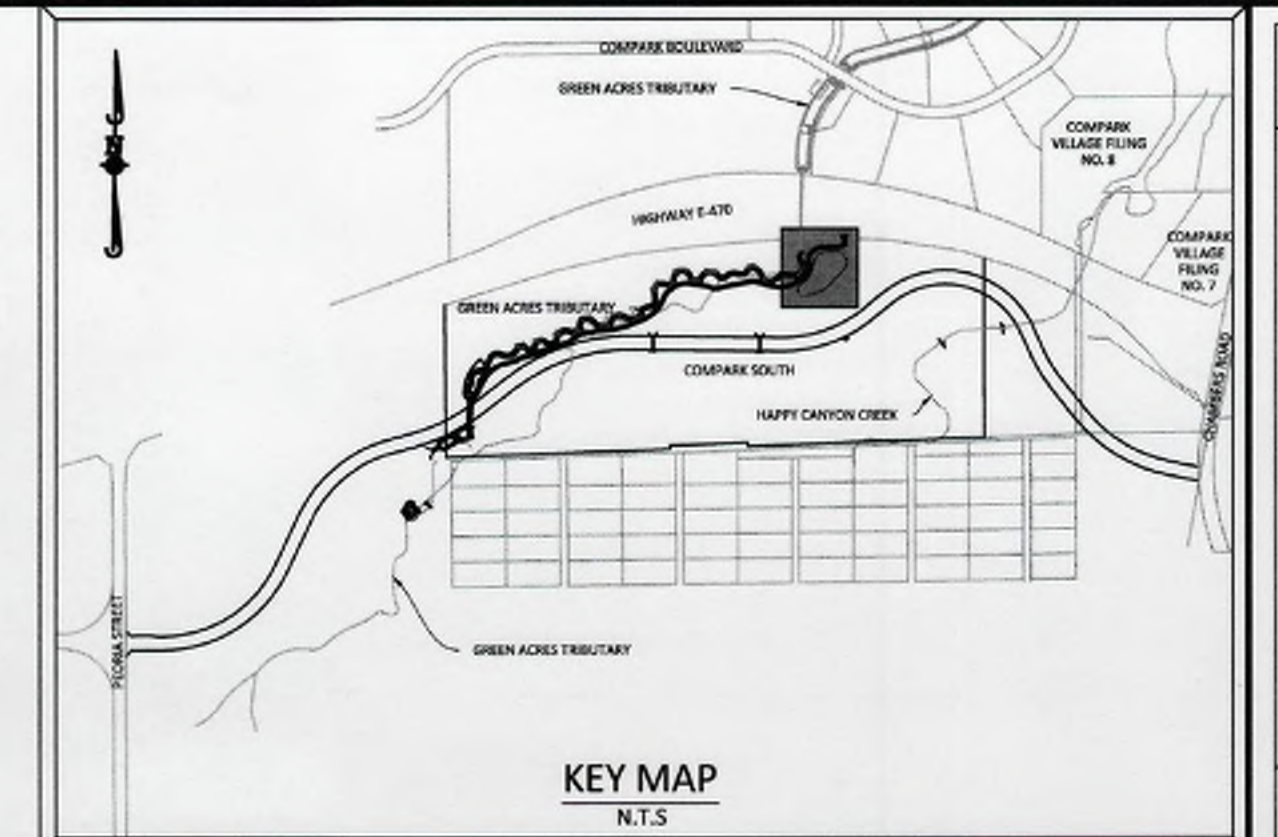


Plotted: 8/4/2022 10:58 AM. Draw Name: P:\Circles3\CompSouth12-Filing 1 No GAT\CompSouth12-Ultimate Belford Awdway\Eng\Drawings\Storm PP - Pond.dwg. Updated By: A.Drucker



PLAN: STORM 13 & POND OUTLET

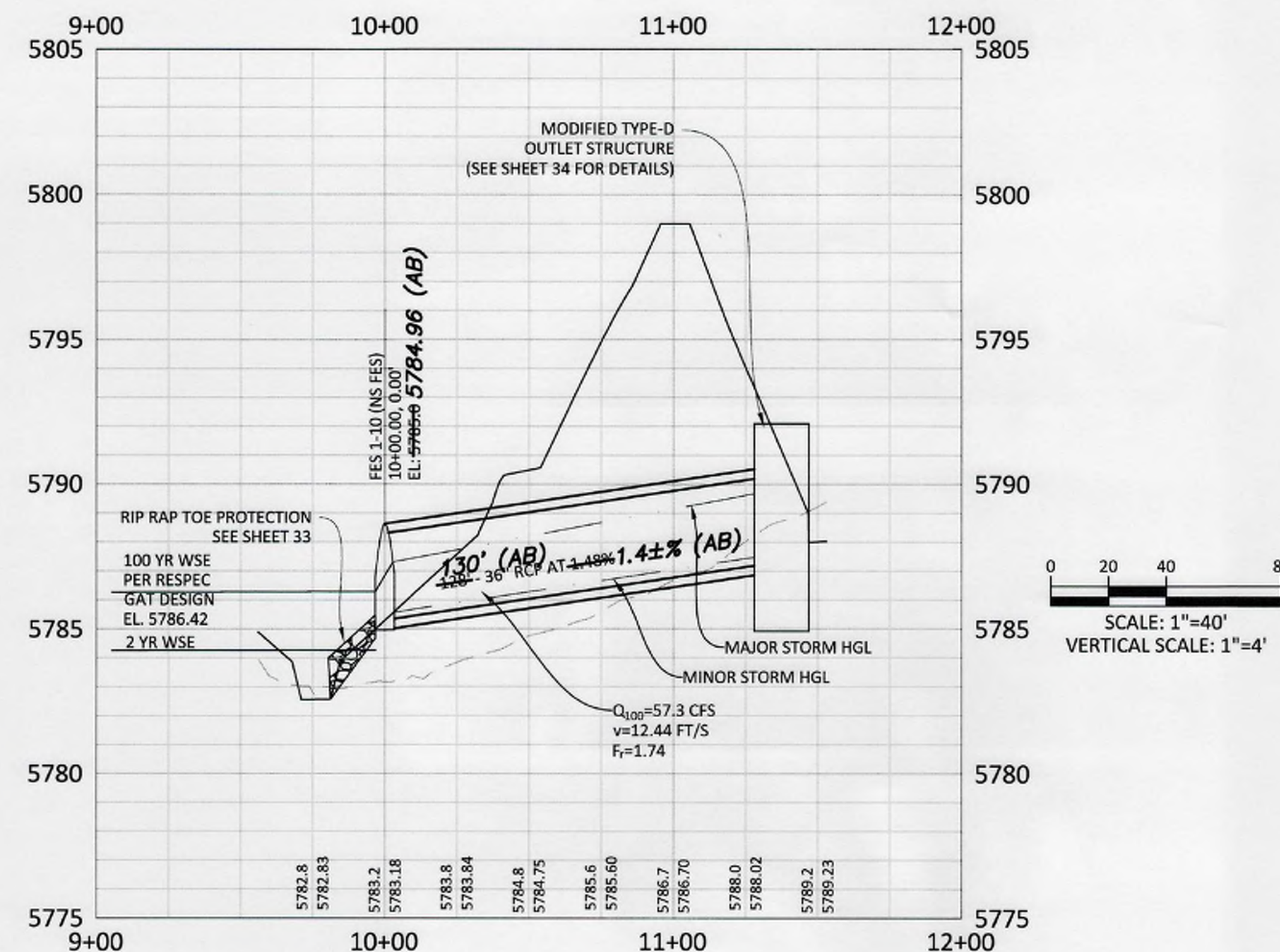
RECORD DRAWING



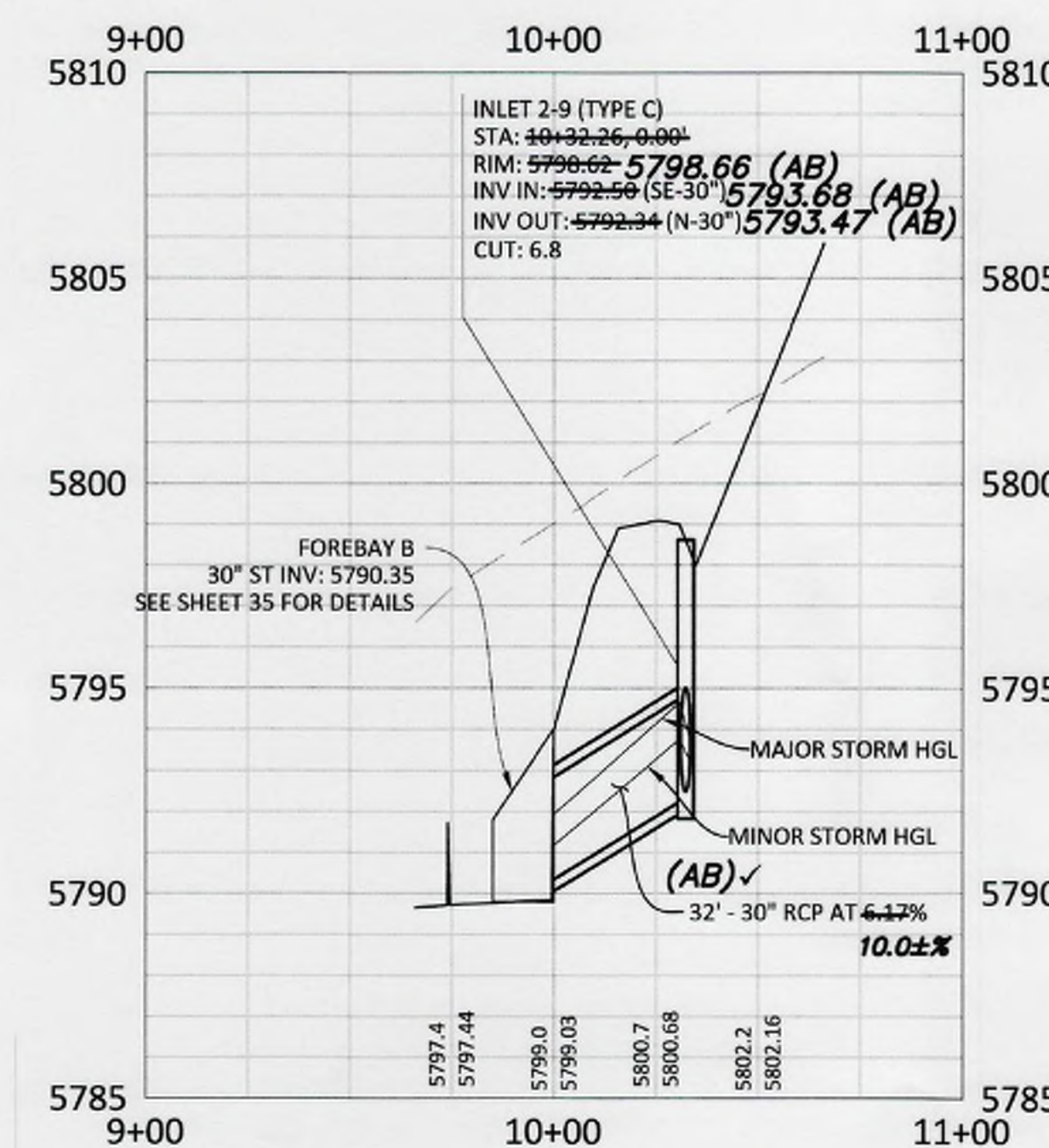
SOURCE BENCHMARKS:
DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)



Know what's below.
Call before you dig.



PROFILE: STORM-POND OUTLET



PROFILE: STORM-13

NOTE:

1. PRIOR TO FINAL TOPSOILING, SEEDING AND MULCHING, CONTRACTOR SHALL OBTAIN FINAL AS-BUILT VOLUME CHECK AND CERTIFICATION FROM THE ENGINEER. FAILURE TO DO SO WILL REQUIRE THE CONTRACTOR TO REMOVE AND REPLACE TOPSOIL MATERIALS AT HIS/HER EXPENSE.
2. REFER TO GENERAL NOTES ON SHEET 2 AND DETAILS ON FOLLOWING SHEETS
3. EMBANKMENT FILL SHALL MEET THE MINIMUM REQUIREMENTS OF TOWN OF PARKER AND THE GEOTECHNICAL REPORT. SEE GENERAL NOTES ON SHEET 2.

As-Built Recordation

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☐ FOR REFERENCE ONLY
☐ ROADWAY
☐ SANITARY SEWER
☐ STORM SEWER
☐ WATER

DATE: _____
DATE: 07/2022
DATE: _____



COMPARK VILLAGE SOUTH, FILING NO 1 - BELFORD AVENUE
TOWN OF PARKER, COLORADO
STORM PLAN & PROFILE

PROJ. MGR.: RJM
PROJ. ASSOC.: BRB
DRAWN BY: ETG
DATE: 12/2015
SHEET
23 OF 50
CLCPKC3

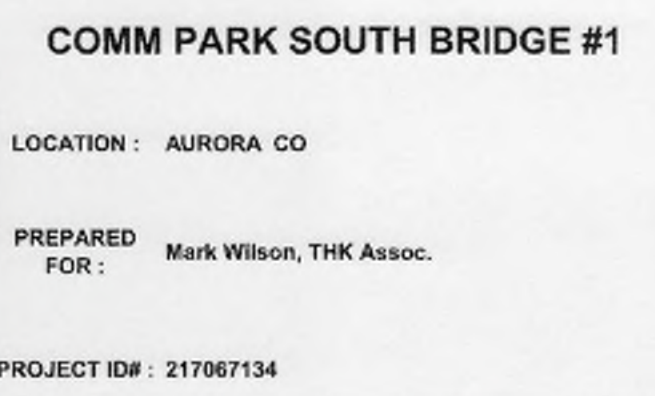
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Water Resource Management Construction Management

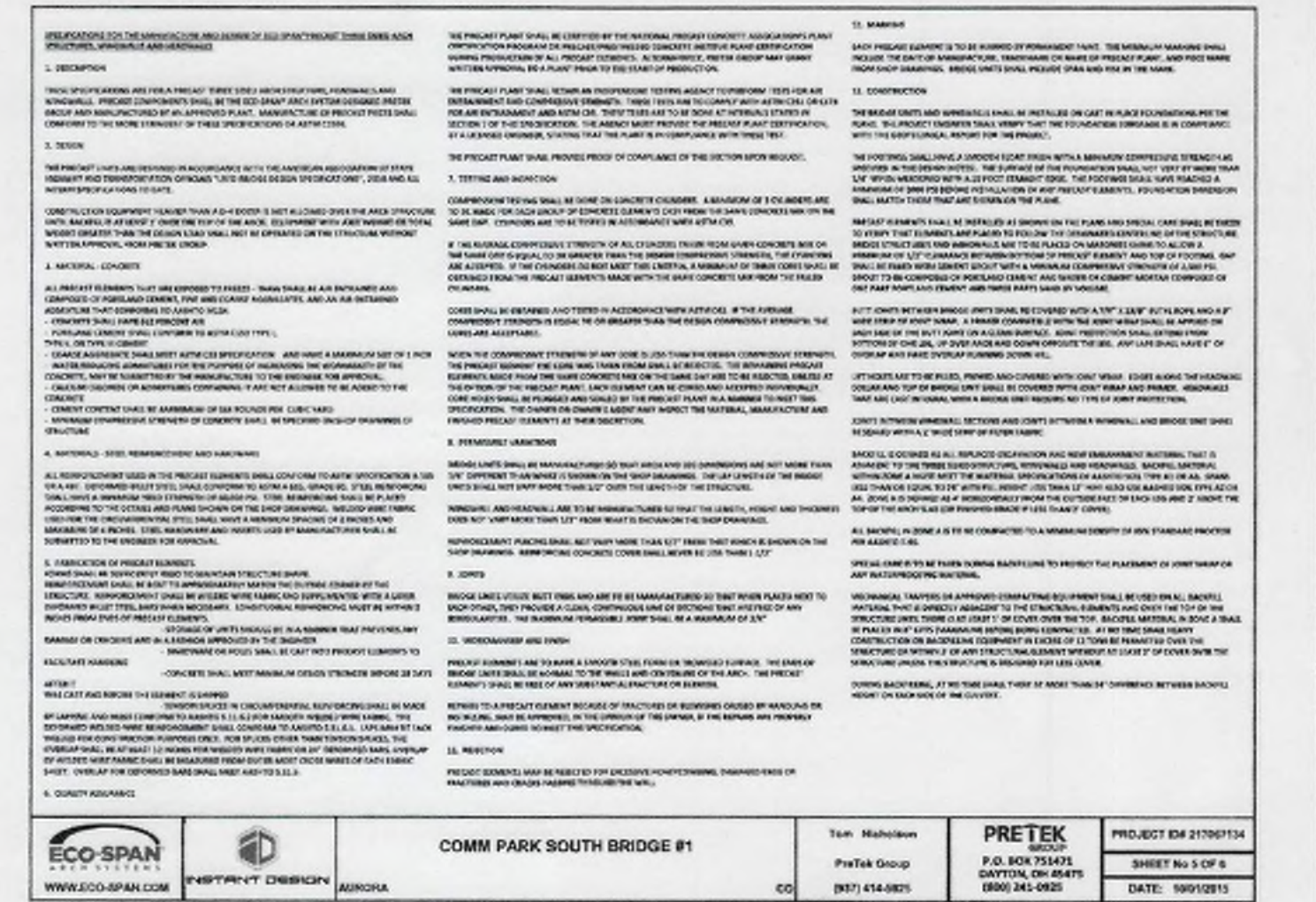
DATE	APPROVED	REVISIONS
07/17/20	ETG	RESPONDED TO TOWN COMMENTS
09/02/20	ETG	RESPONDED TO TOWN COMMENTS
09/02/20	ETG	UPDATE GAT & ADD OFF-LINE DET BASIN
12/27/18	ETG	FINAL SUBMITTAL
6/24/16	ETG	3RD SUBMITTAL
4/17/16	ETG	2ND SUBMITTAL
11/20/15	ETG	1ST SUBMITTAL



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WV1 Angle	45 DEG	WV2 Angle	45 DEG	WV3 Angle	45 DEG	WV4 Angle	45 DEG	Bridge Length	200.0 FT
WV1 Length	58.5 FT	WV2 Length	28.0 FT	WV3 Length	25.5 FT	WV4 Length	58.5 FT	Number of Cells/Cells	1
WV1 Drop	7.0 FT	WV2 Drop	7.0 FT	WV3 Drop	7.0 FT	WV4 Drop	7.0 FT	Open	28.3 FT



A black and white safety sign with a rounded rectangular border. The top half contains the text "CLIMB TO SAFETY" in bold, uppercase letters. Below the text is a graphic of a person climbing a steep, rocky slope. The bottom half of the sign contains the text "SUBIR A LA SEGURIDAD" in bold, uppercase letters.

low.
you dig.



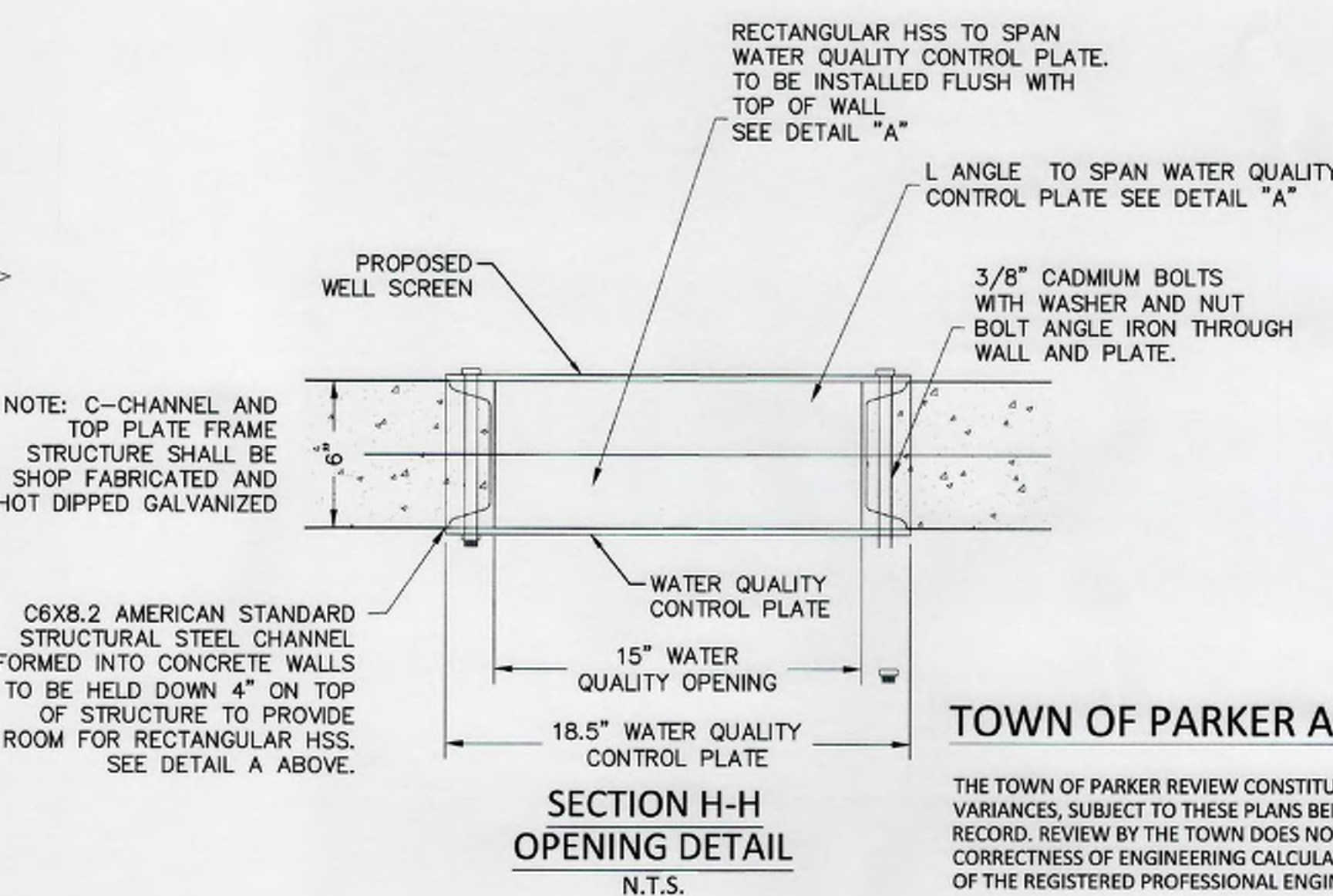
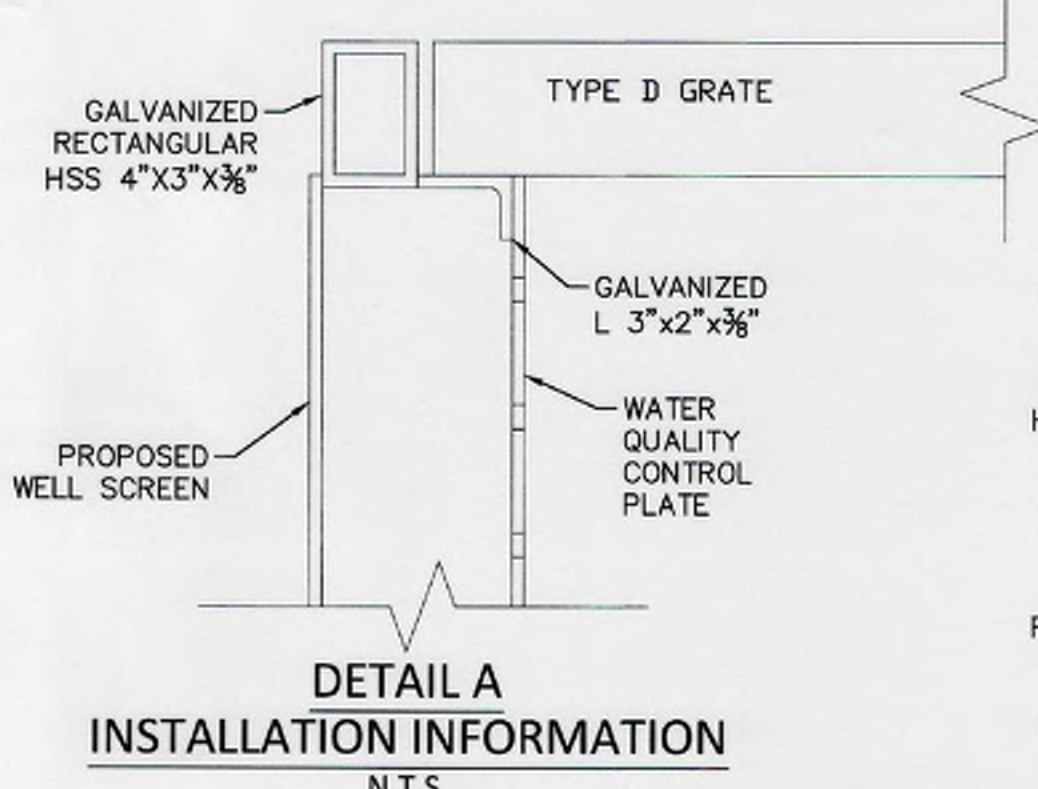
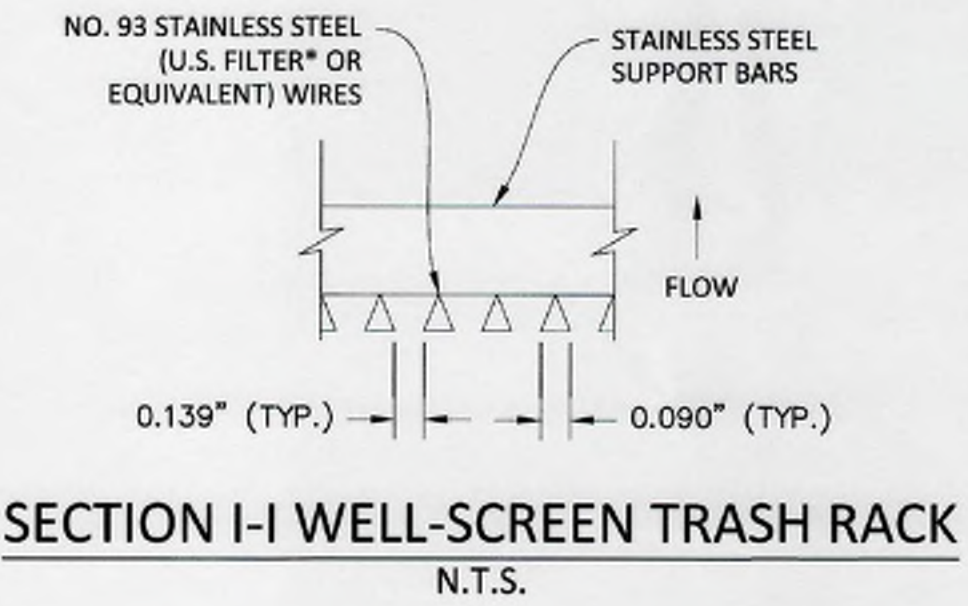
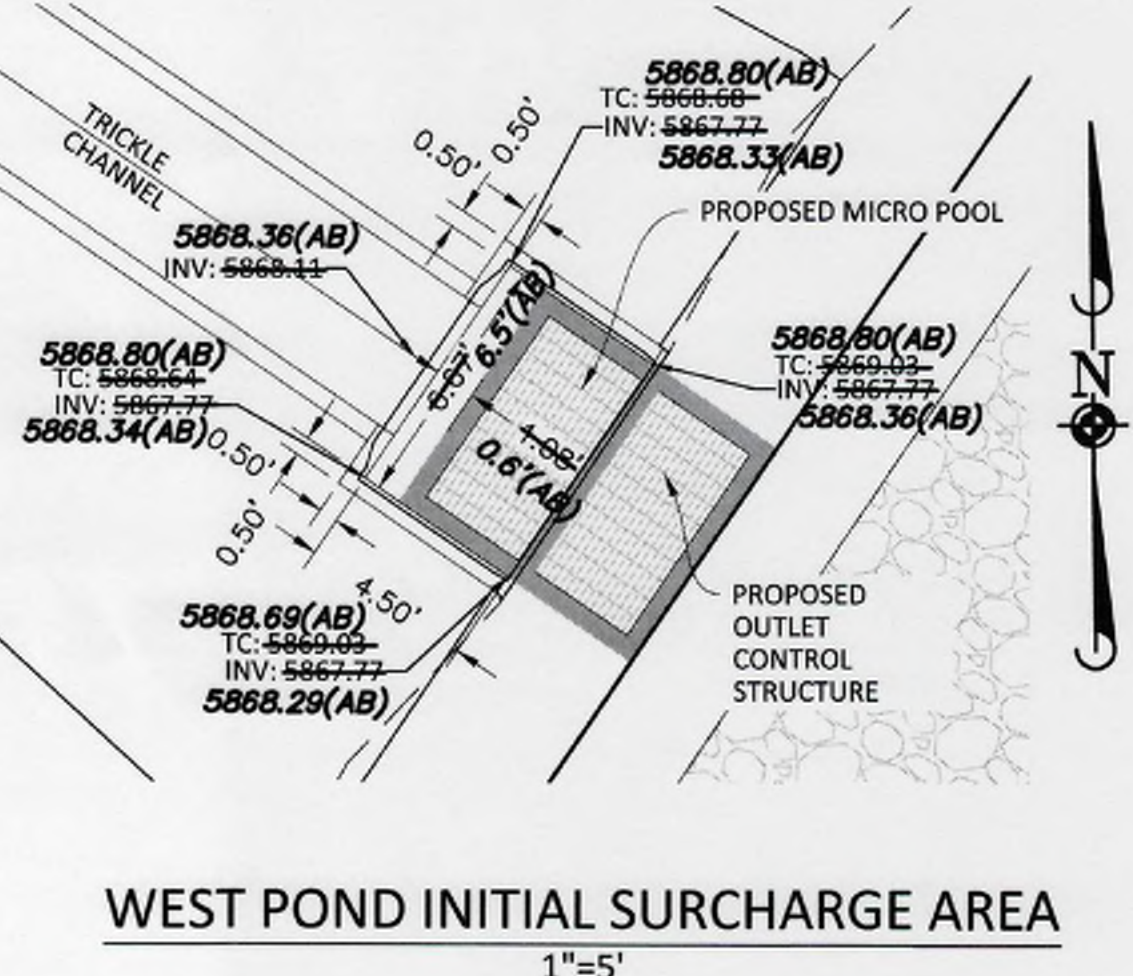
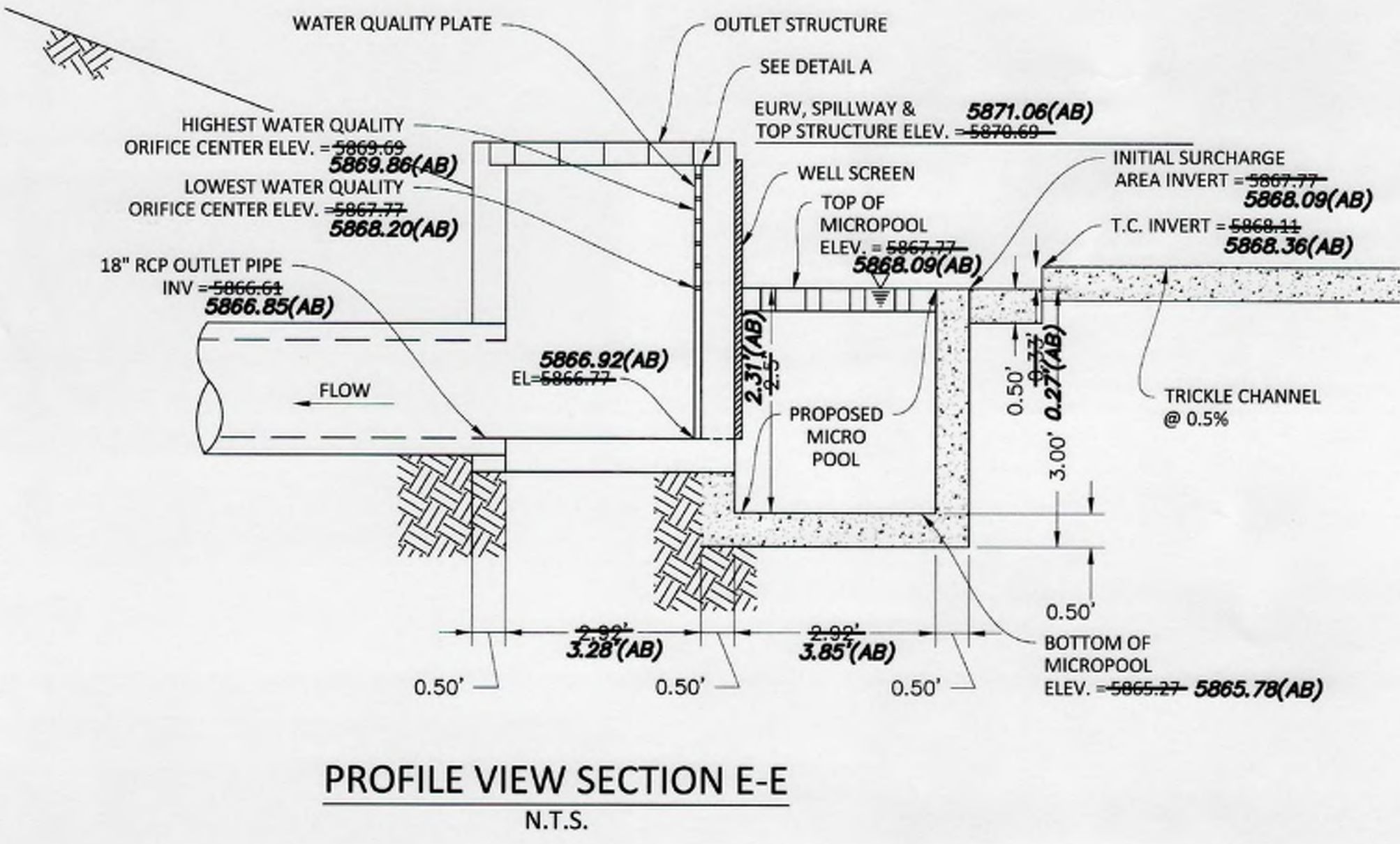
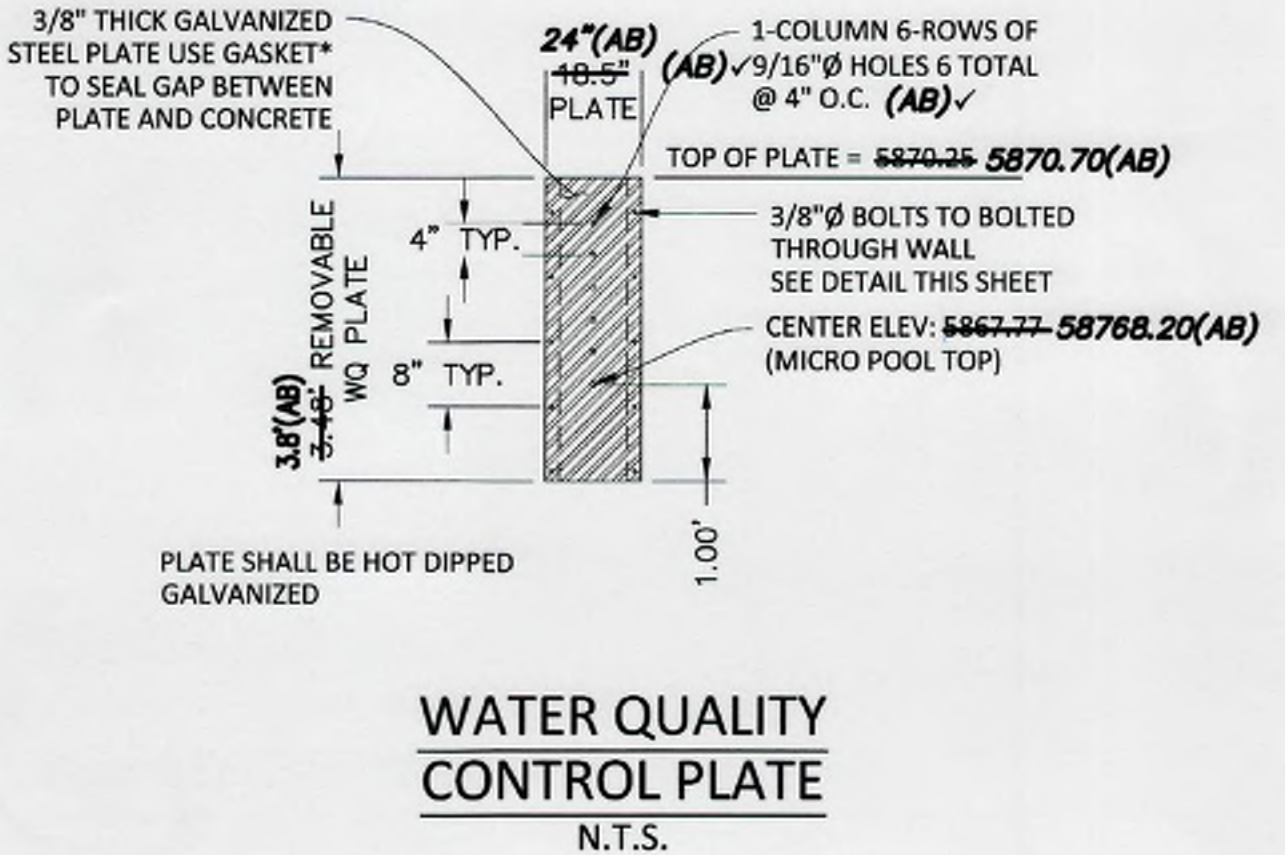
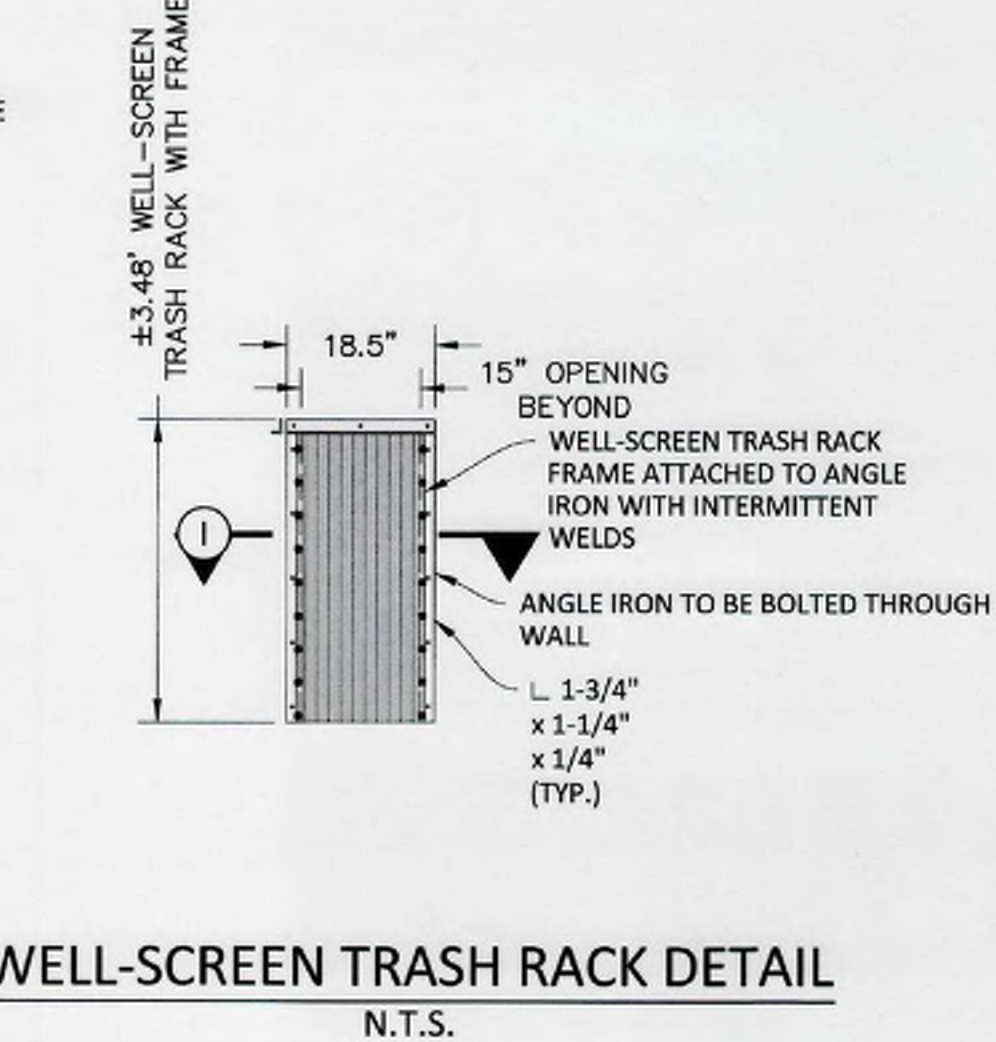
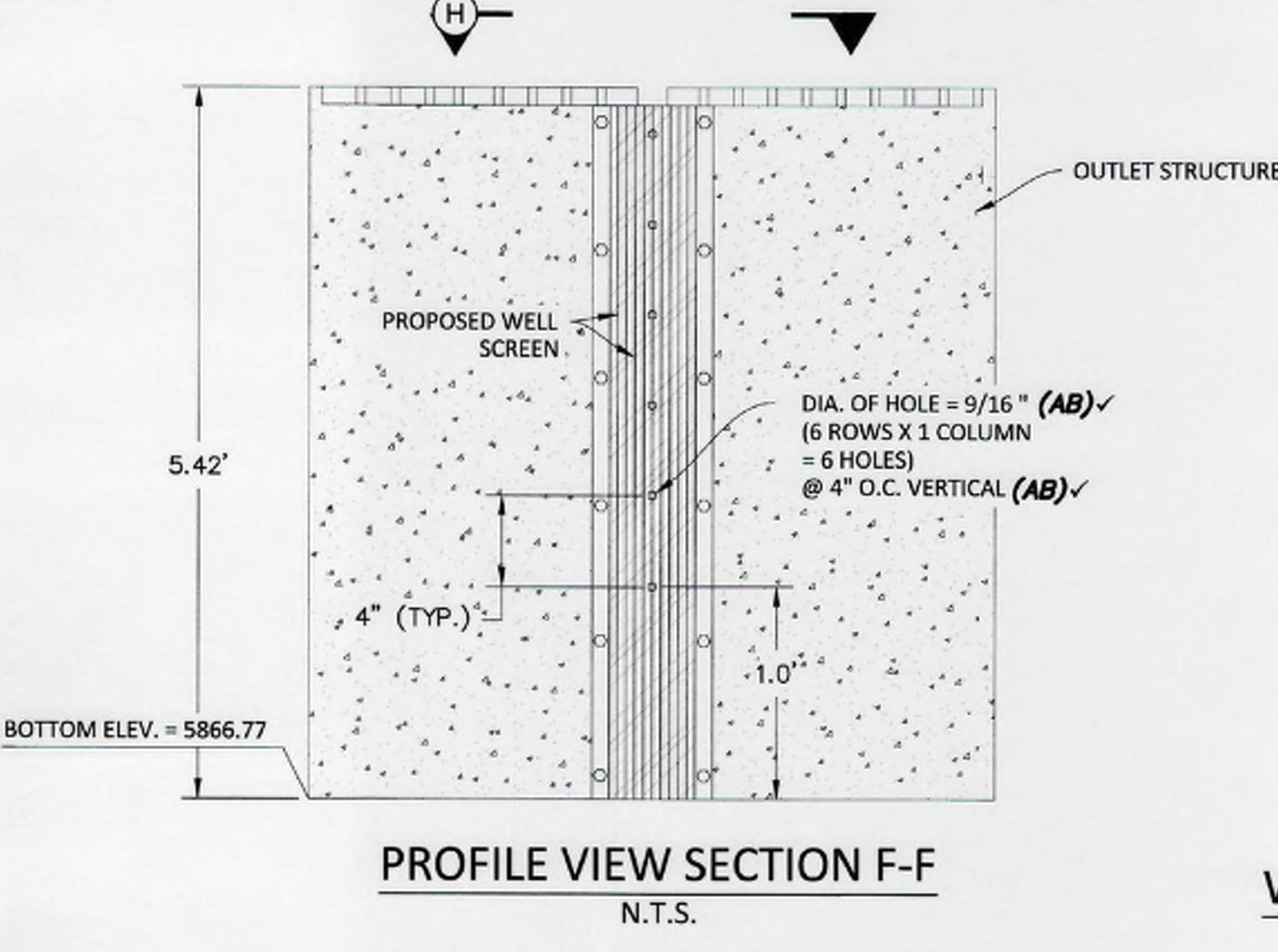
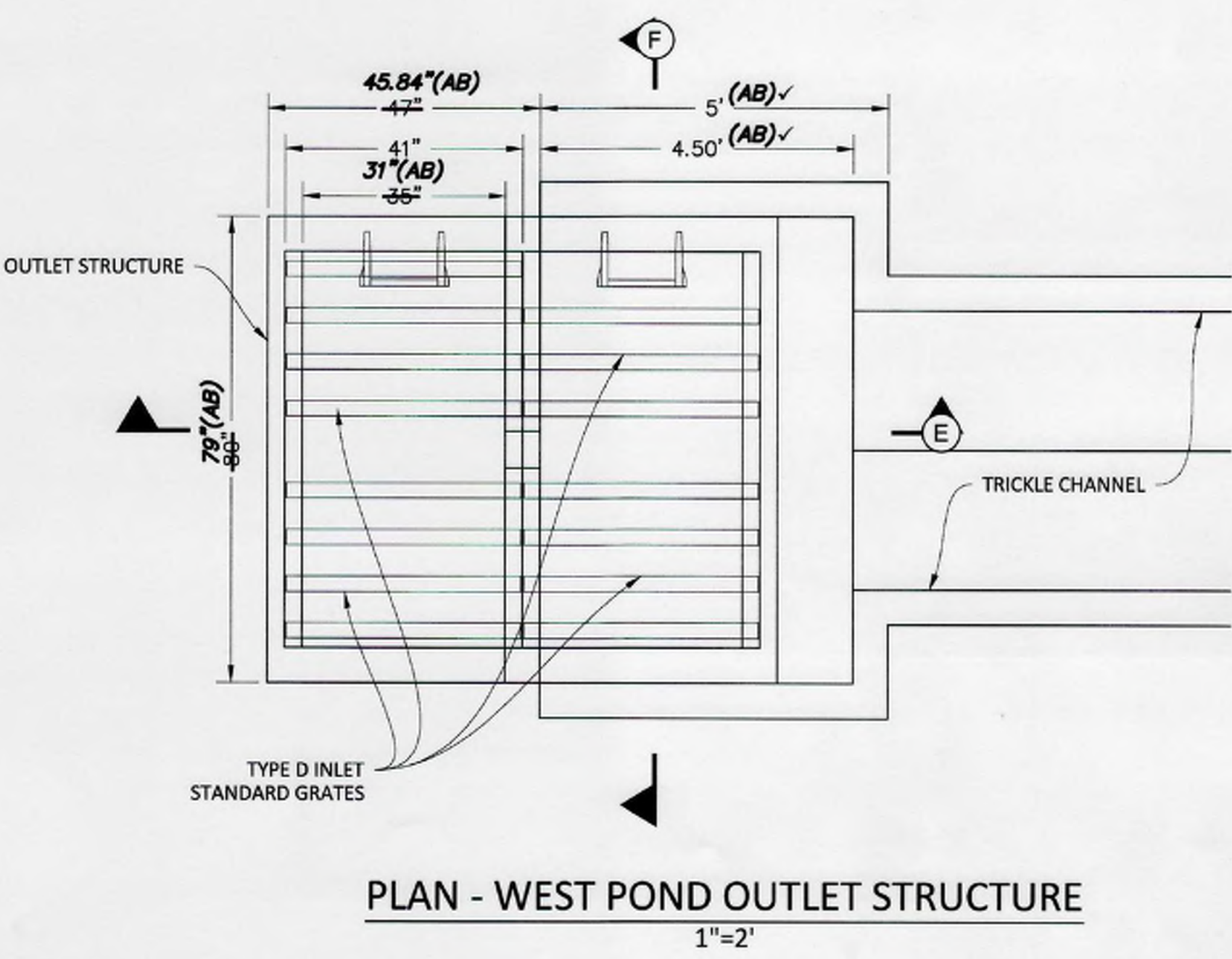
TOWN OF PARKER APPROVALS

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RECORD DRAWING



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 3. GRATES SHALL BE STANDARD GRATE TYPE.
 4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO ENGINEER FOR REVIEW, PRIOR TO CONSTRUCTION.
 5. CONTRACTOR TO HAVE PROFESSIONAL ENGINEER DESIGN AND CERTIFY THE OUTLET STRUCTURE.
- * PROVIDE NEOPRENE GASKET (CLOSED CELL MEDIUM GASKET WITH ADHESIVE ON ONE SIDE, 1/4-IN. THICK X 2-IN. WIDE) BETWEEN THE WATER QUALITY PLATE AND THE CONCRETE OUTLET STRUCTURE.

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☐ FOR REFERENCE ONLY	DATE
☐ ROADWAY	DATE
☐ SANITARY SEWER	DATE
☒ STORM SEWER	DATE 07/2022
☐ WATER	DATE



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COMPARK VILLAGE SOUTH, FILING NO 1 - BELFORD AVENUE

TOWN OF PARKER, COLORADO

OUTLET STRUCTURE WEST

PROJ. MGR.: RJM

PROJ. ASSOC.: BRB

DRAWN BY: ETG

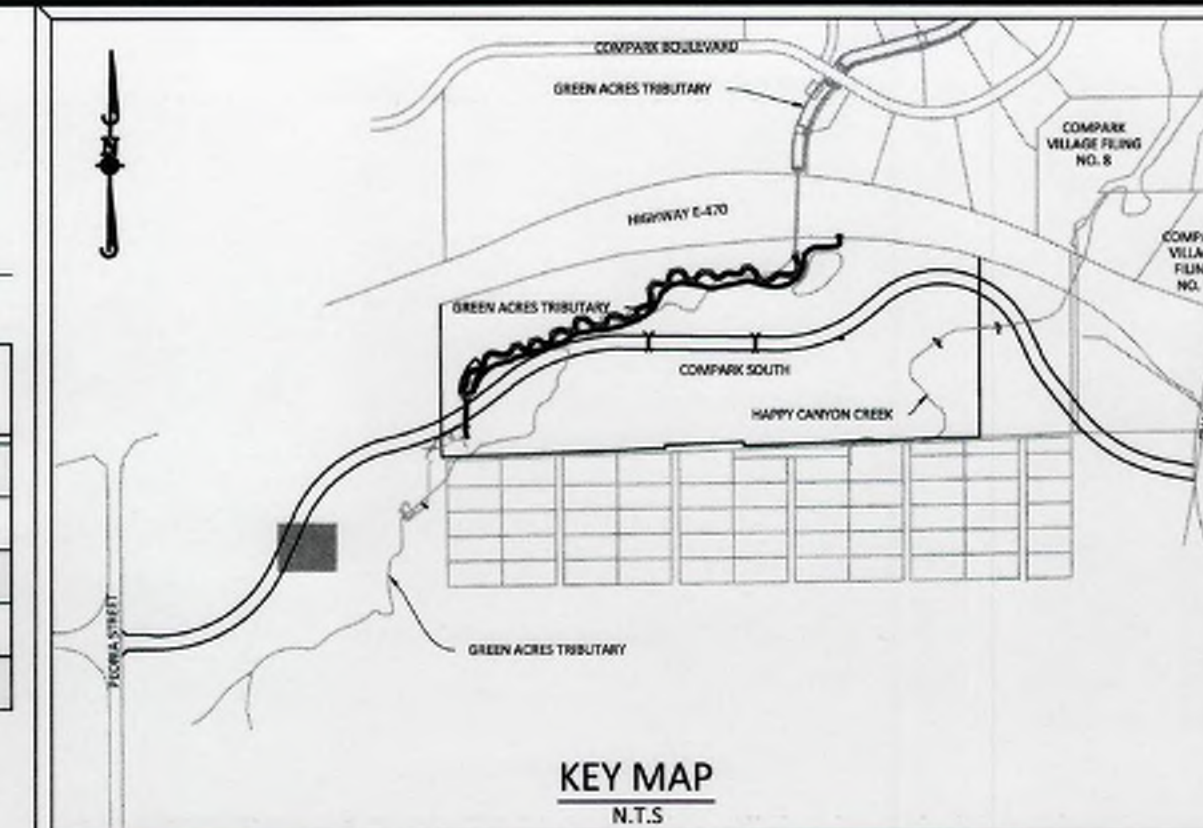
DATE: 12/2015

SHEET 29 OF 50

CLCPKC3

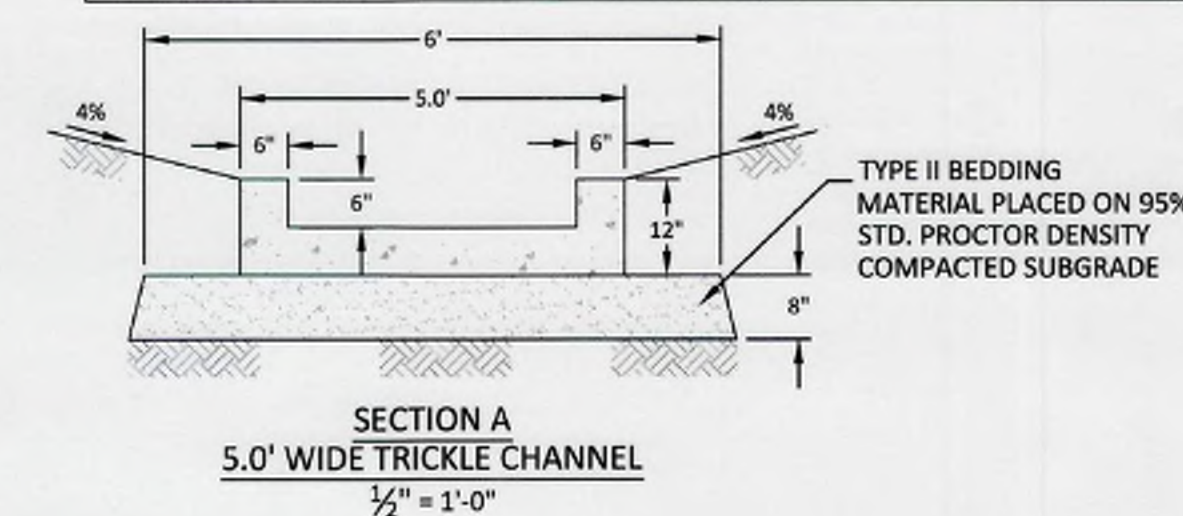
RECORD DRAWING

FREQUENCY STORM	REQUIRED VOLUMES (FT ³ OR AC.-FT.)	RECORD DRAWING CALCULATIONS					
		CALC. VOL.	BY:	DATE	CALC. VOL.	BY:	DATE
EURV	0.23 AC.-FT.	0.24 AC.-FT.	ASD	06-22-22			



SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET
SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF
THE CENTERLINE OF COMPAK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)



NOTE: USE 4 POUNDS PER CU. YD.
OF FIBRE MESH TO REINFORCE
CONCRETE

14.0'

8" THICKNESS ~ 3" TO 4"
SIZE CRUSHED GRANITE
MIXED WITH CLASS 6 ROAD
BASE PLACED ON GEOGRID

SECTION B
MAINTENANCE ACCESS ROAD
ABOVE EURV WATER SURFACE
1 1/4" = 1'-0"

14.0'

12" THICKNESS ~ 3" TO 4"
SIZE CRUSHED GRANITE

SECTION C
MAINTENANCE ACCESS ROAD
BELOW EURV WATER SURFACE
 $\frac{3}{4}" = 1'-0"$

Point Table				
Point	Elevation	Northing	Easting	Description
TOE-11	5865.53(AB) 5865.53	26158.38	88802.07	POND TOE
TOE-12	5867.57(AB) 5867.57	26147.91	88824.77	POND TOE
TOE-13	5867.78(AB) 5867.78	26134.33	88857.03	POND TOE
TOE-14	5867.65(AB) 5867.65	26131.25	88880.33	POND TOE
TOE-15	5867.82(AB) 5867.82	26153.85	88889.22	POND TOE
TOE-16	5867.62(AB) 5867.62	26171.11	88875.68	POND TOE
TOE-17	5868.10(AB) 5868.10	26179.55	88852.15	POND TOE
TOE-18	5868.59(AB) 5868.59	26187.25	88828.37	POND TOE
TOE-19	5868.52(AB) 5868.52	26180.86	88810.05	POND TOE
TT-5	5888.67(AB) 5888.67	26165.13	88803.90	Trickle Chann
TT-6	5887.03(AB) 5887.03	26156.19	88836.79	Trickle Chann
TT-7	5887.26(AB) 5887.26	26149.71	88873.62	Trickle Chann
TT-8	5887.28(AB) 5887.28	26147.87	88881.32	Trickle Chann

NOTE:

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3. EMBANKMENT FILL SHALL MEET THE MINIMUM REQUIREMENTS OF TOWN OF PARKER AND THE GEOTECHNICAL REPORT. SEE GENERAL NOTES ON SHEET 2.
4. THIS WATER QUALITY BASIN HAS BEEN SIZED TO SERVE AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION. ONCE CONSTRUCTION IS COMPLETE, THE SPILLWAY SHALL BE LOWERED TO THE SAME WATER SURFACE ELEVATION, AS SHOWN ON THE DETAIL OF THIS SHEET.

As-Built Recordation

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☐ FOR REFERENCE ONLY DATE _____

☐ ROADWAY DATE _____

☐ SANITARY SEWER DATE _____

☒ STORM SEWER DATE 07/2022

☐ WATER DATE _____



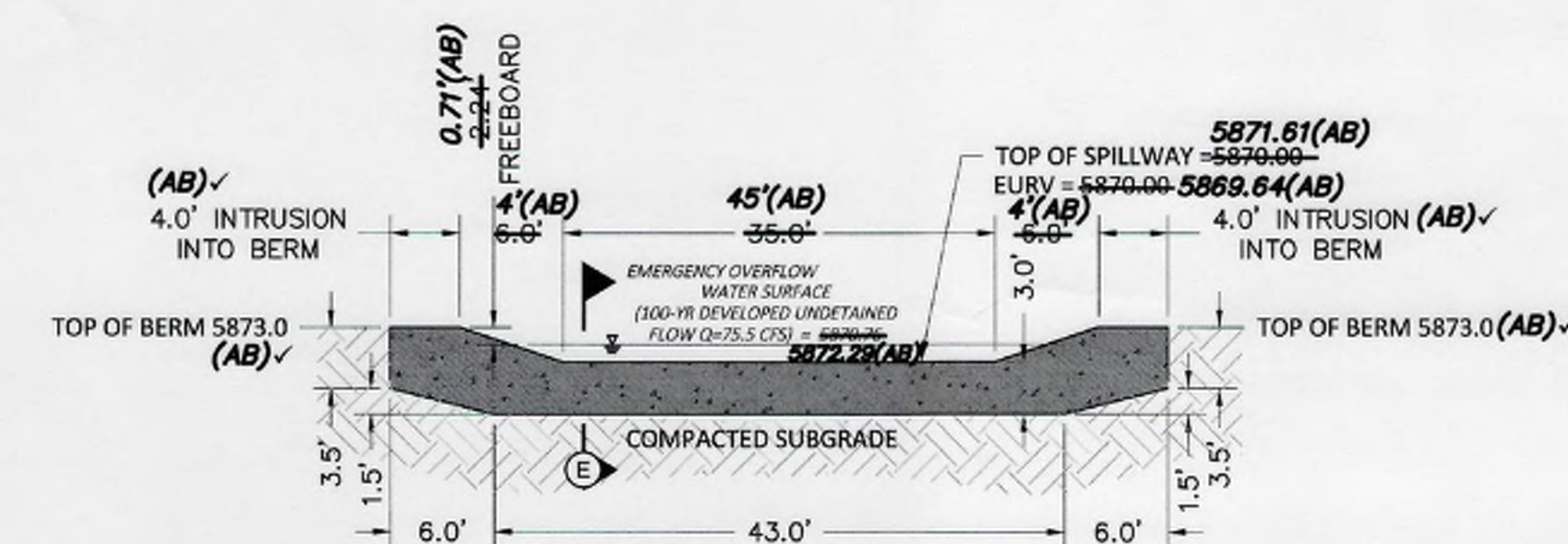
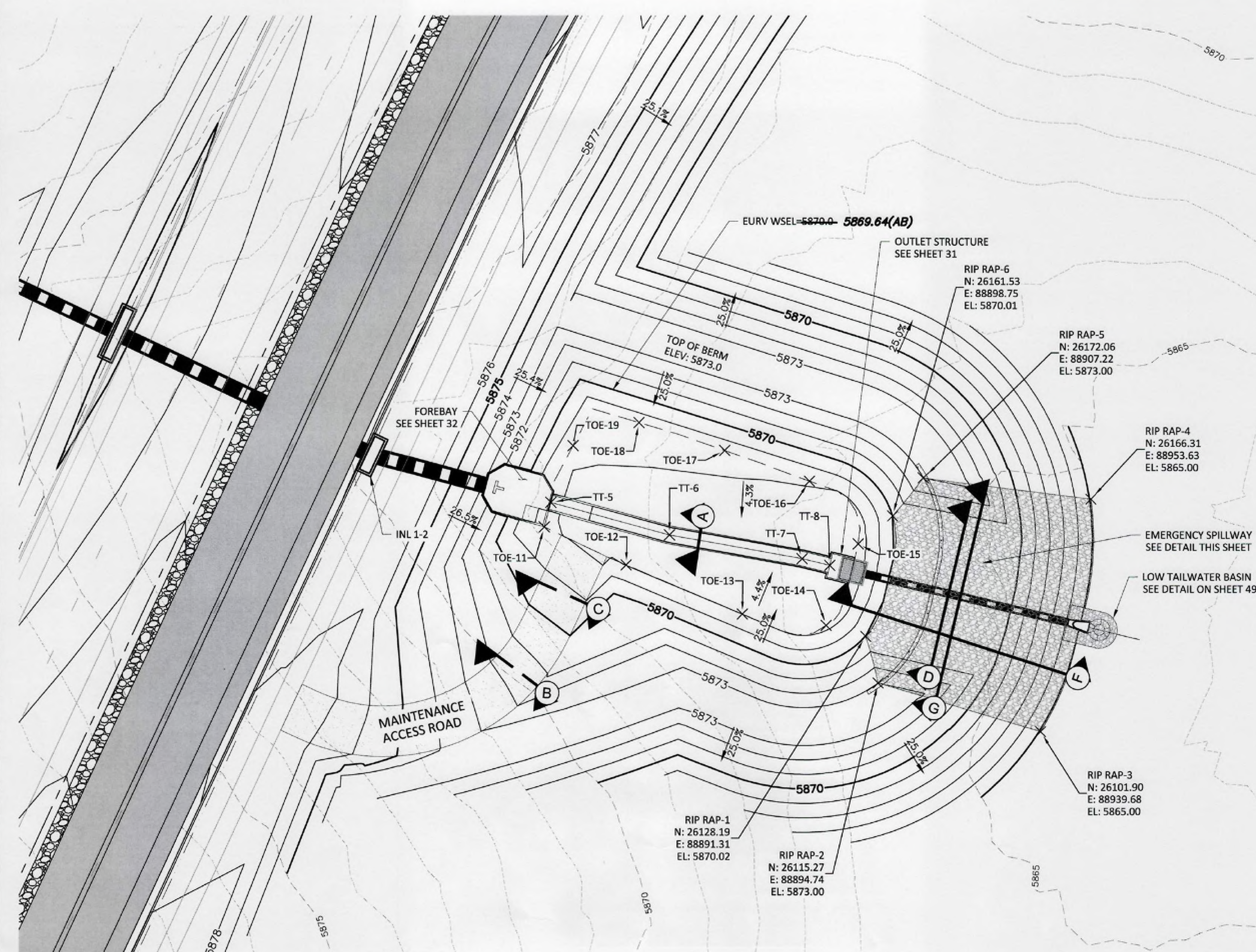
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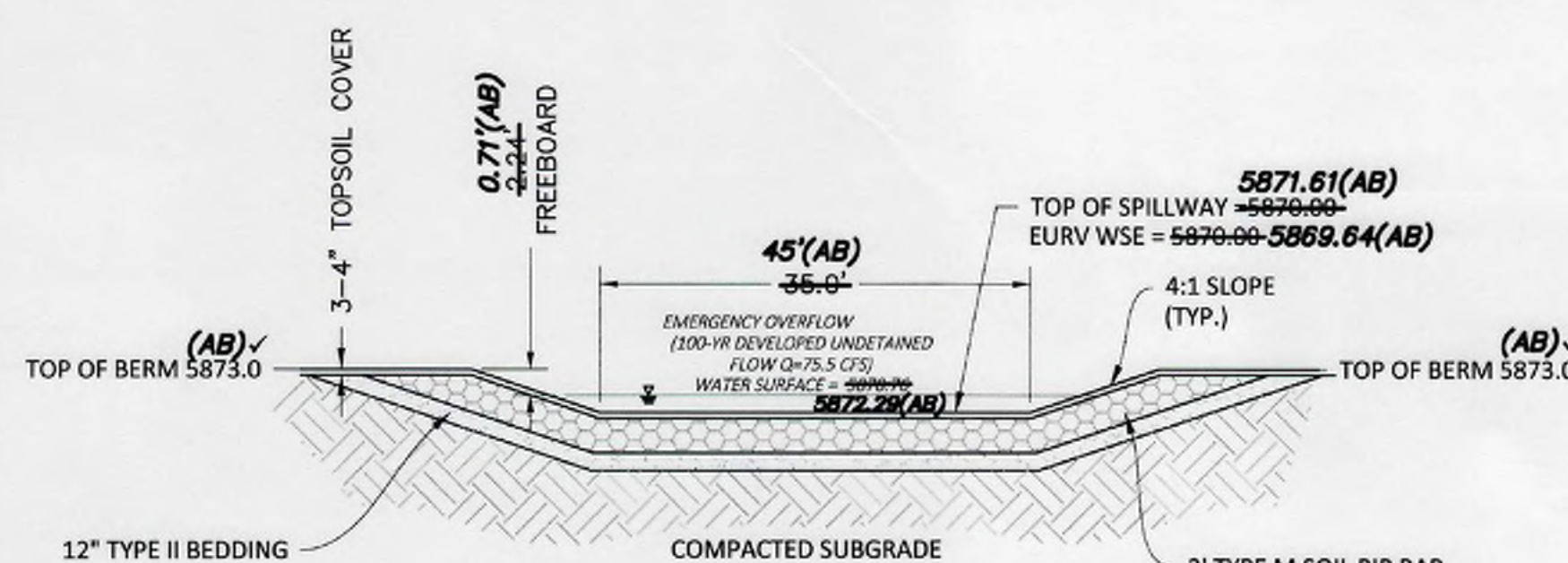
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TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS

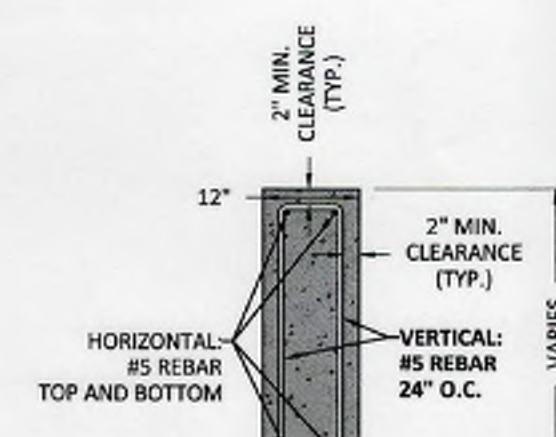
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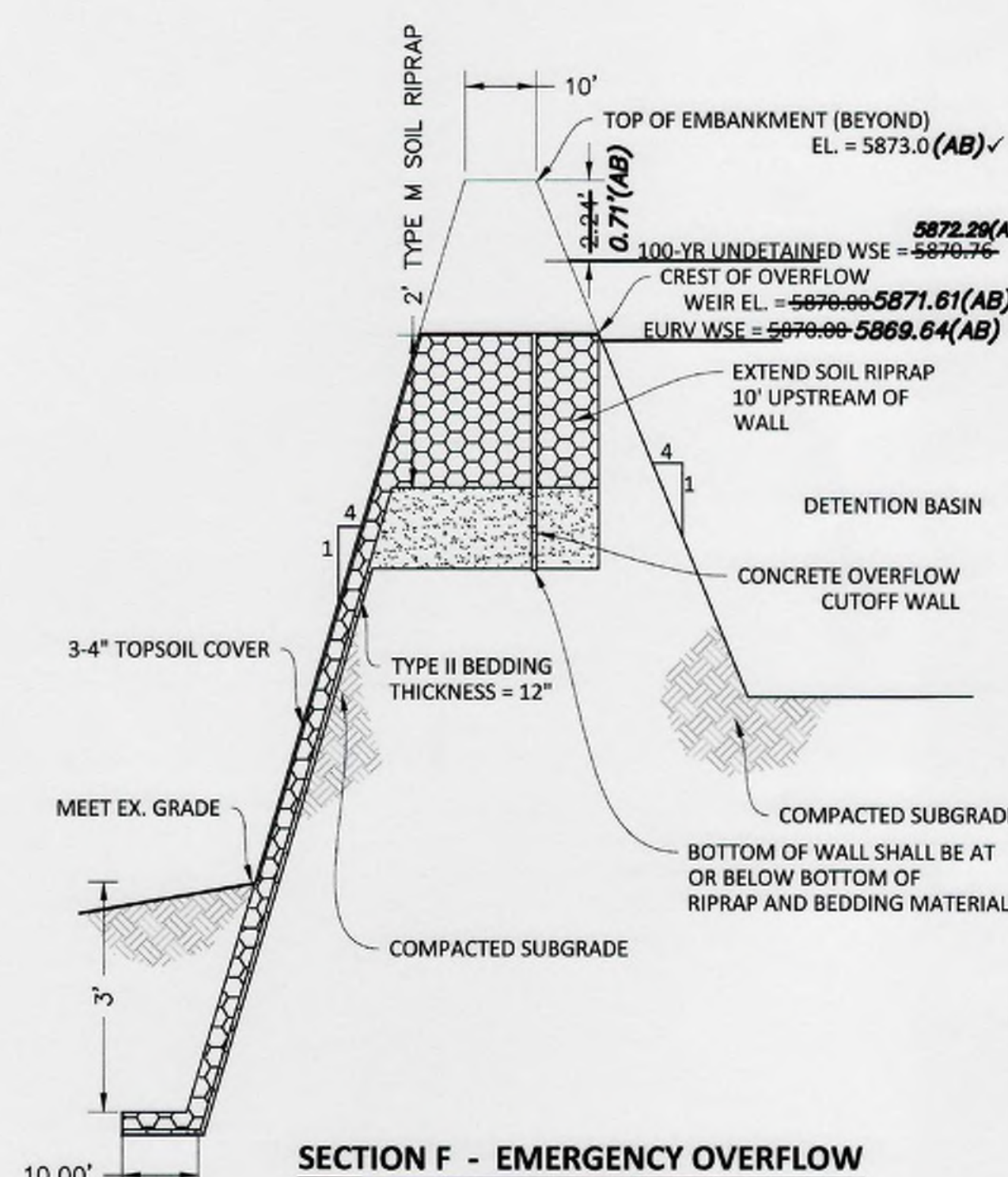
SECTION D - EMERGENCY OVERFLOW SPILLWAY CUTOFF WALL
1" = 10'



SECTION G - EMERGENCY OVERFLOW SPILLWAY
1" = 10'



**SECTION E - EMERGENCY
OVERFLOW SPILLWAY**

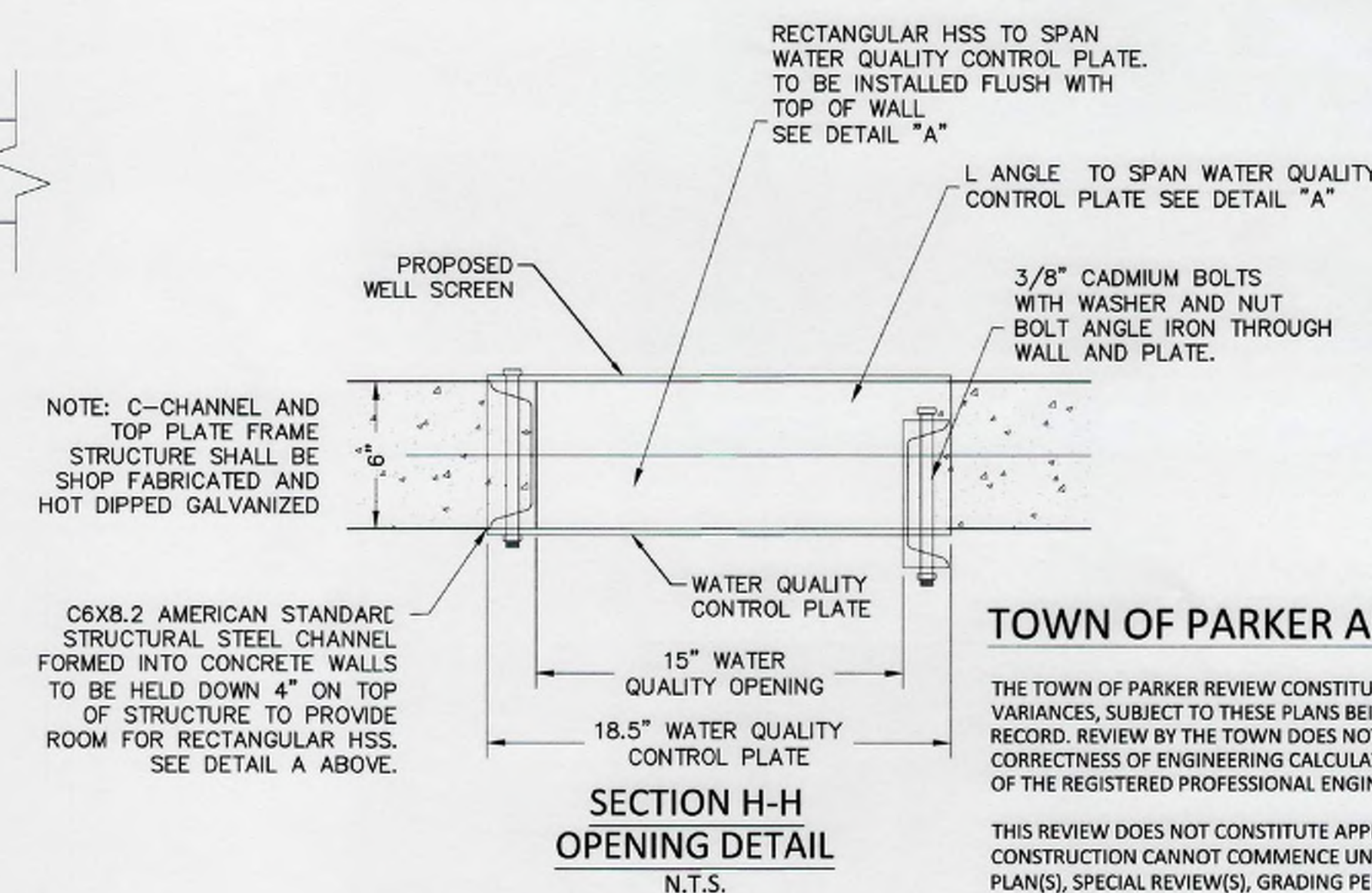
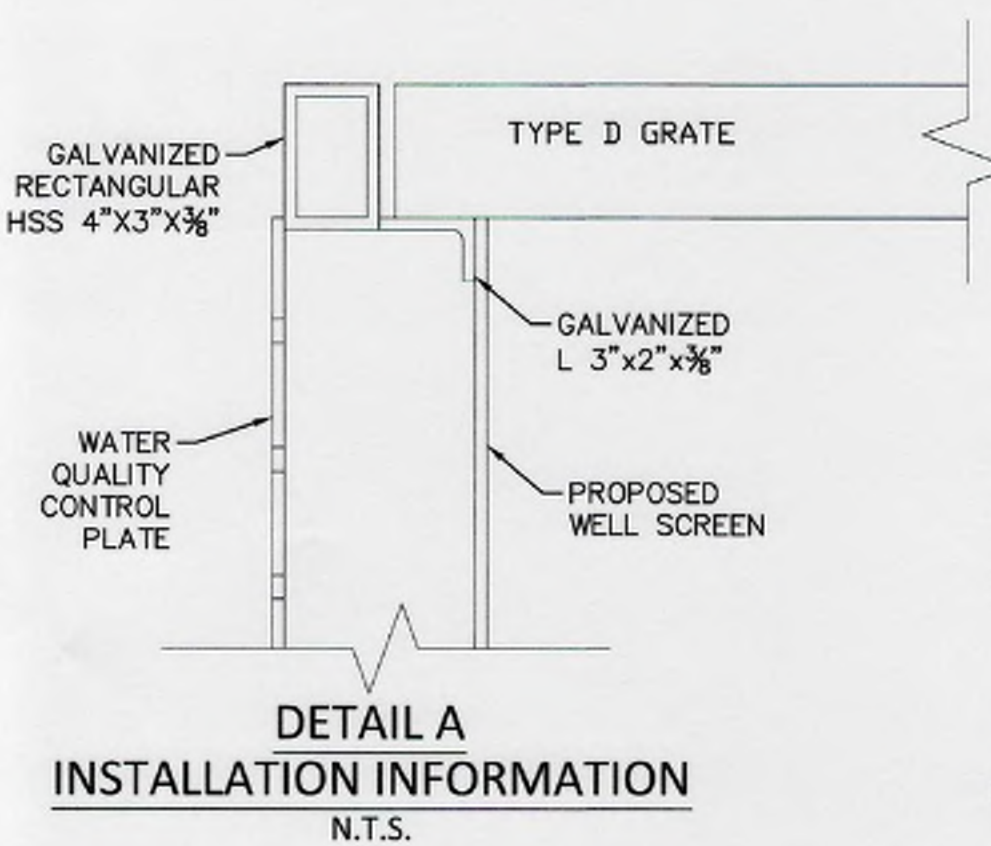
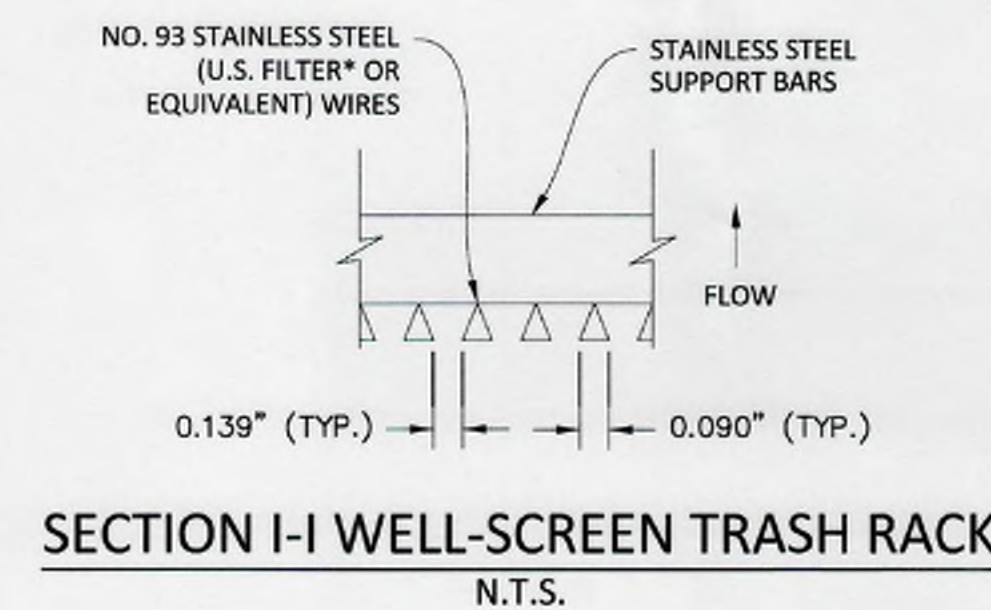
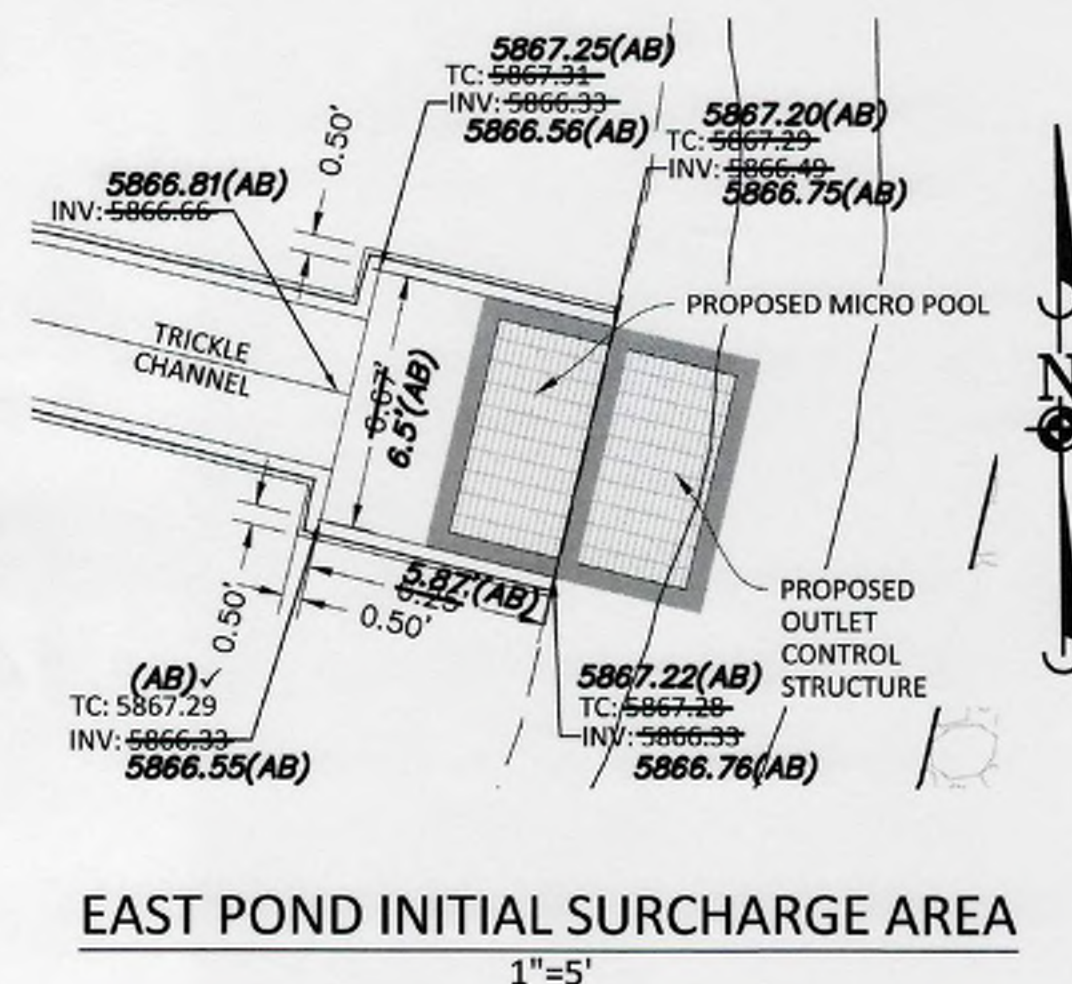
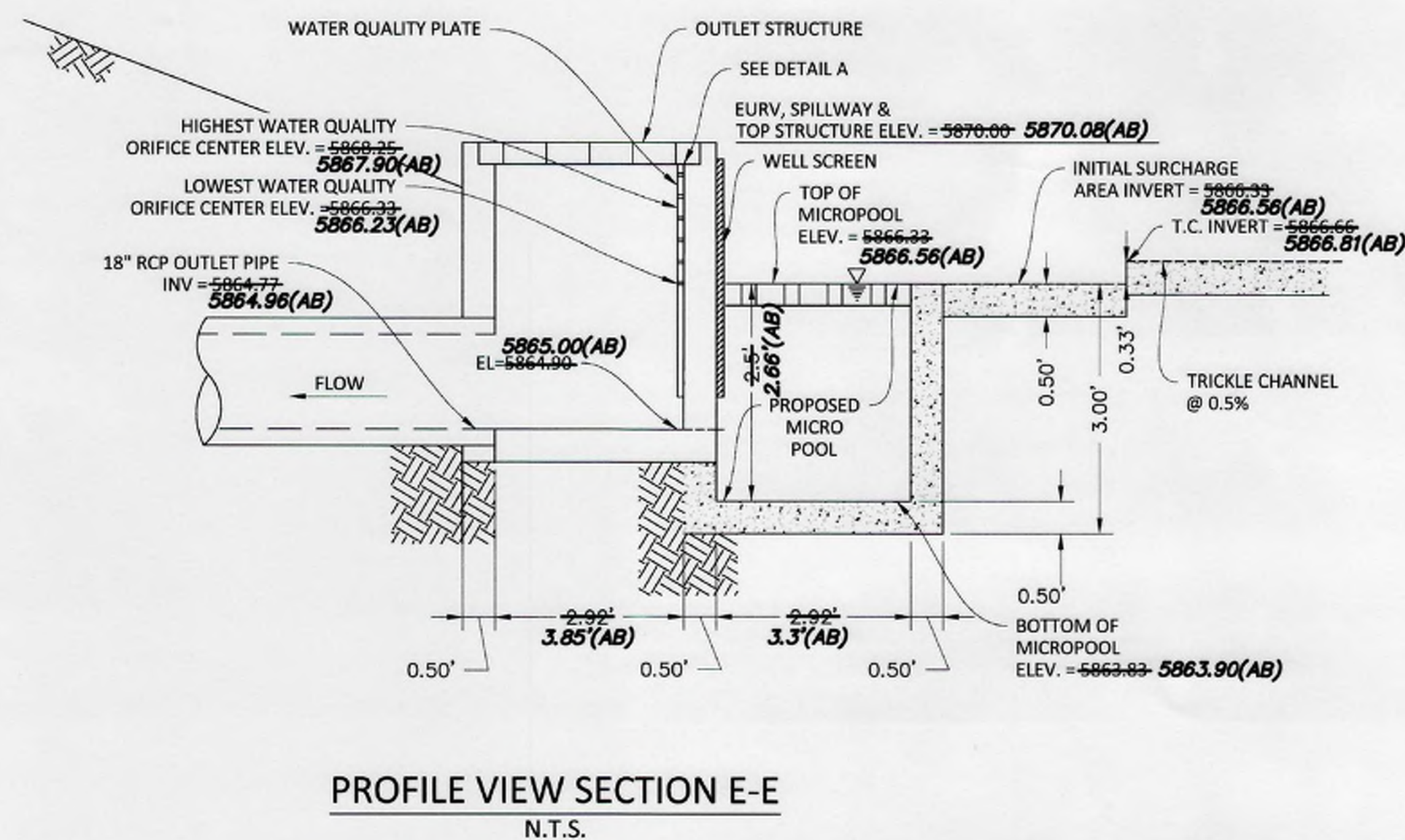
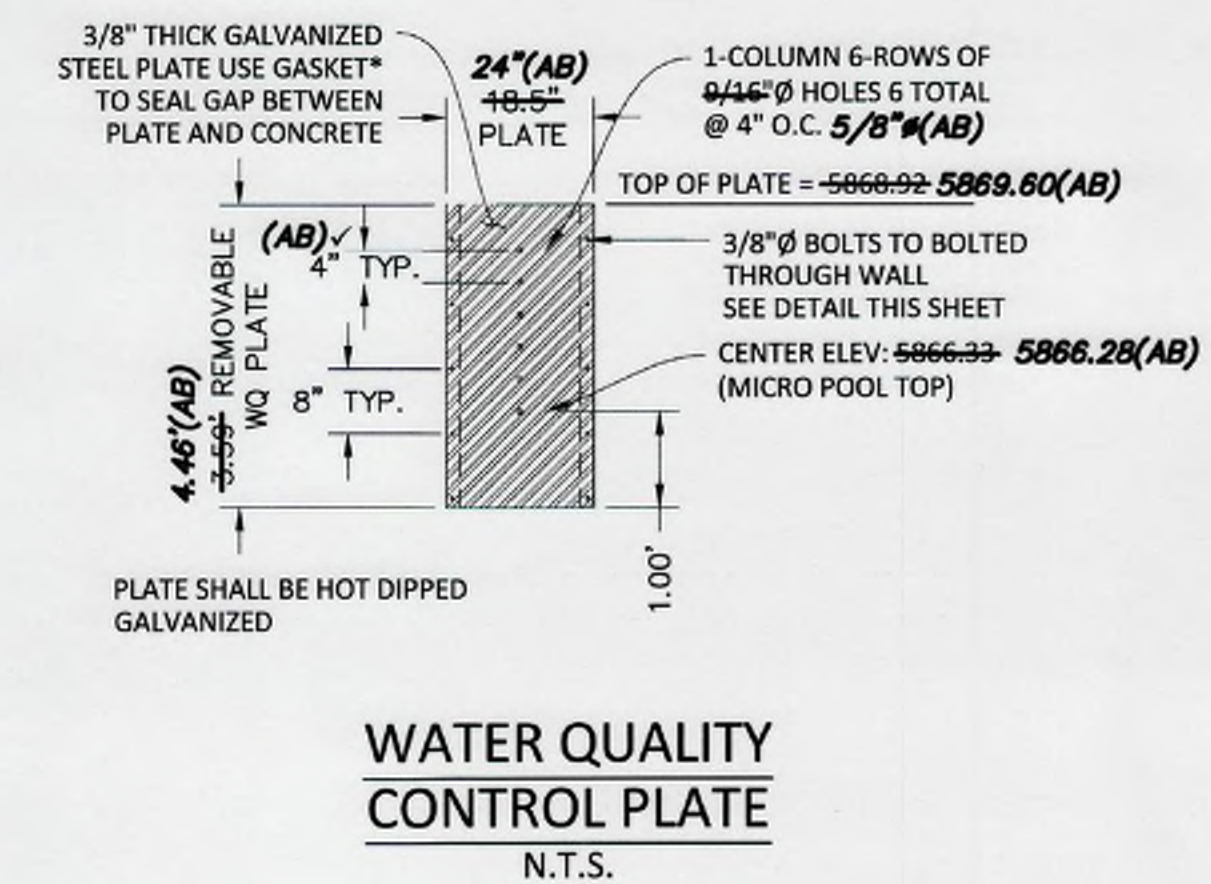
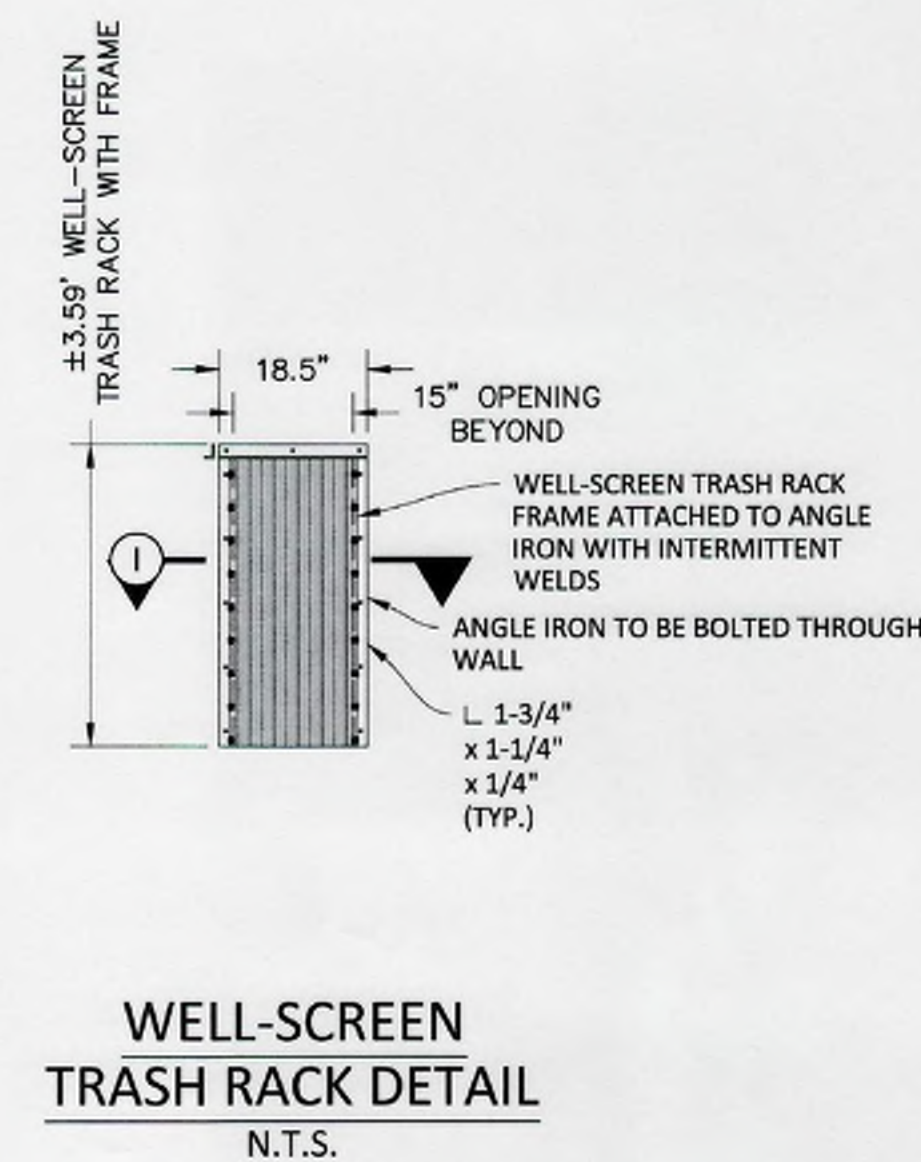
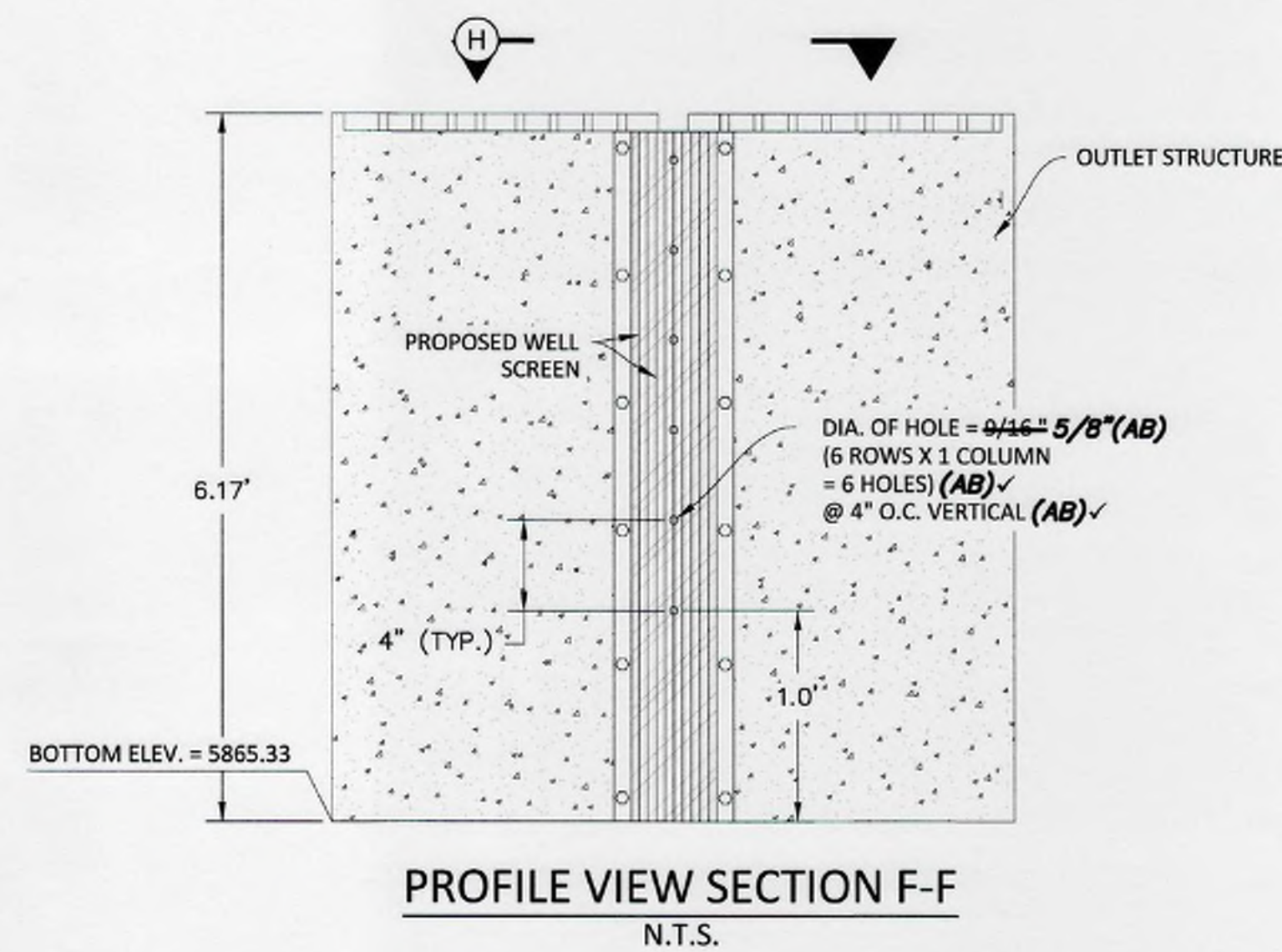
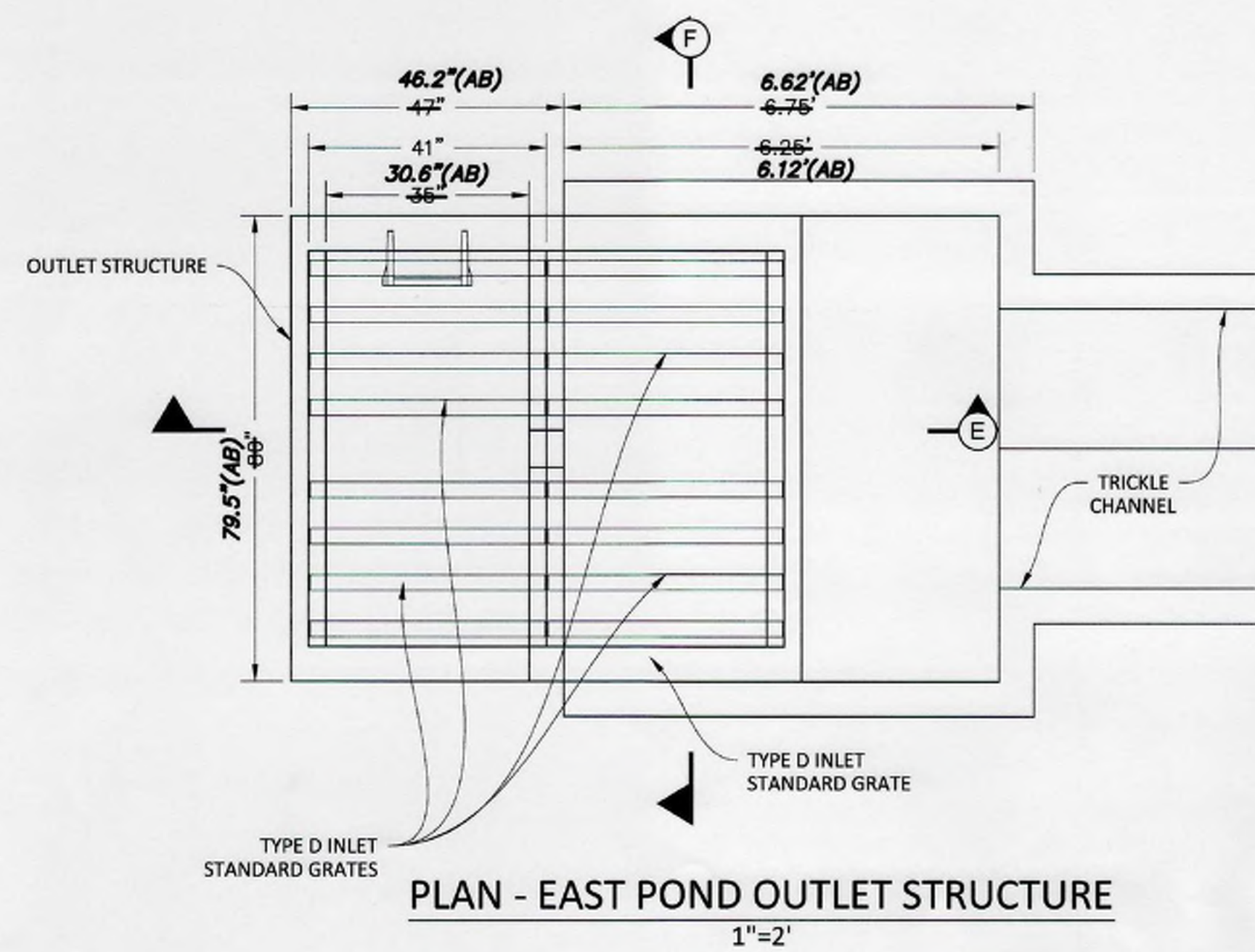


SECTION F - EMERGENCY OVERFLOW
SPILLWAY
1" = 20'H
1" = 2'V

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

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☐ FOR REFERENCE ONLY	DATE
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☐ SANITARY SEWER	DATE
☐ STORM SEWER	DATE
☐ WATER	DATE

DATE: 07/2022



DATE	REVISIONS
1 09/2020	APPROVED TO TOWN COMMENTS
2 07/2020	RESPONDED TO TOWN COMMENTS
3 05/2020	RESPONDED TO TOWN COMMENTS
4 03/2020	UPDATE GAT & ADD OFF-LINE DET BASIN
5 11/17/16	4TH SUBMITTAL
6 6/24/16	3RD SUBMITTAL
7 4/17/16	2ND SUBMITTAL
8 1/17/16	1ST SUBMITTAL

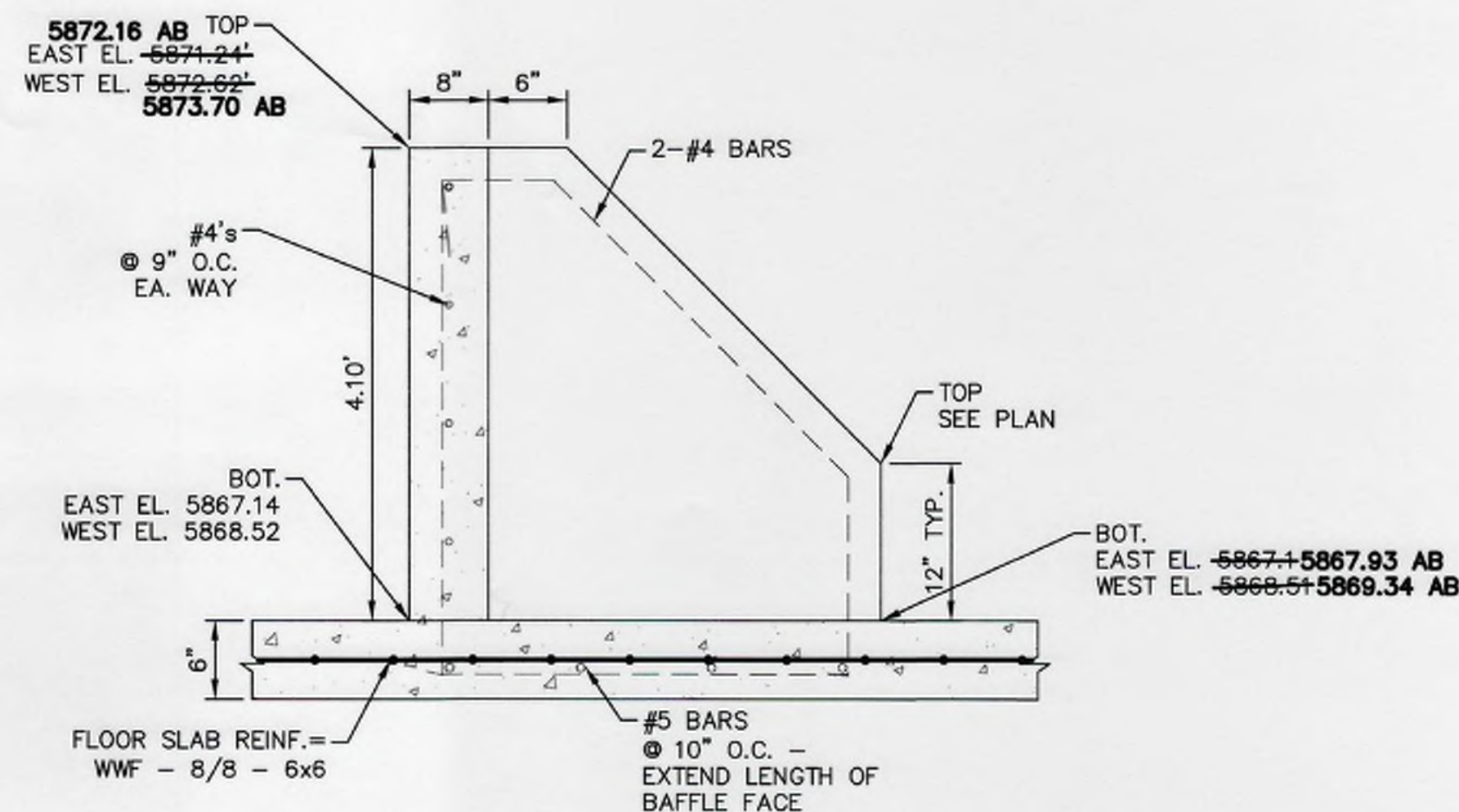
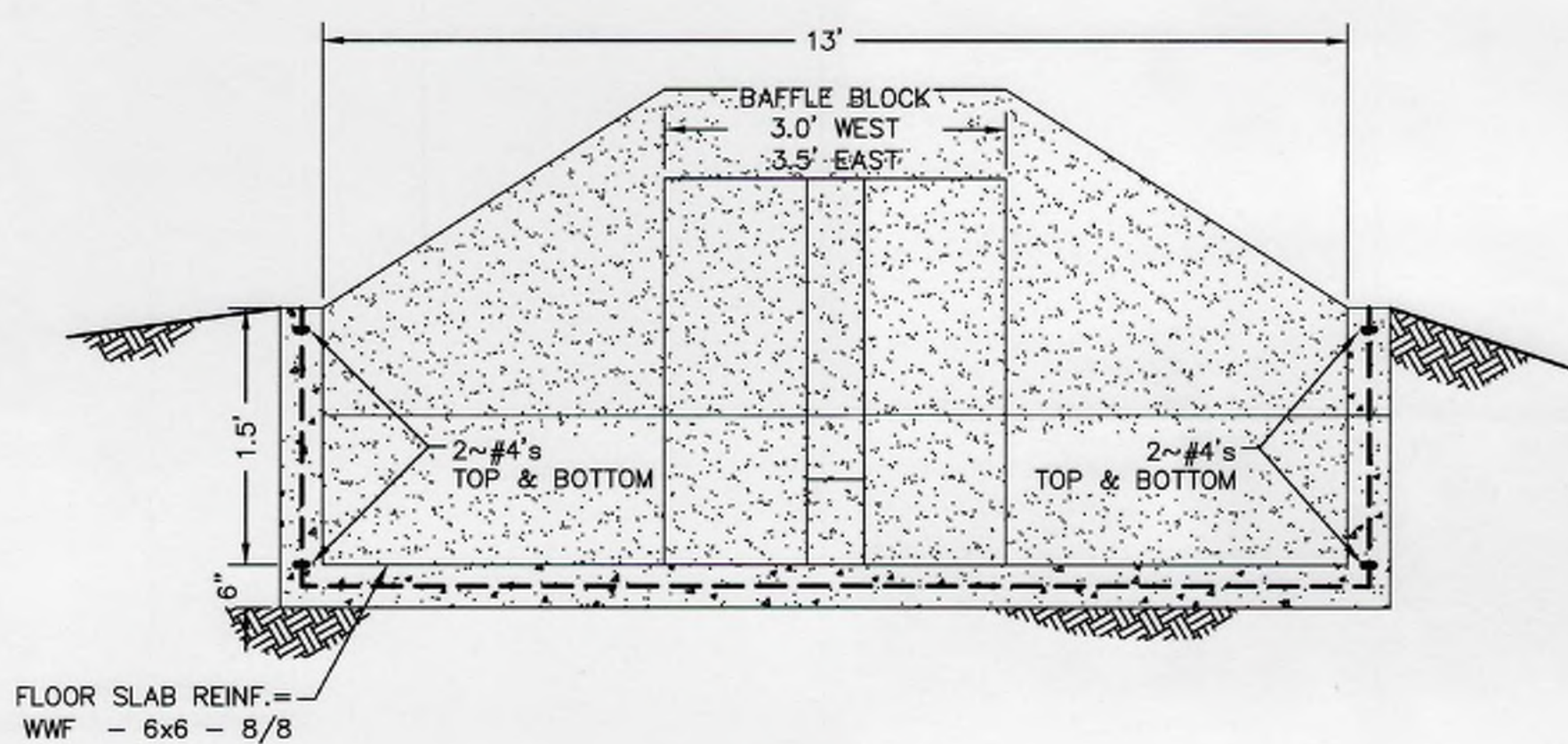
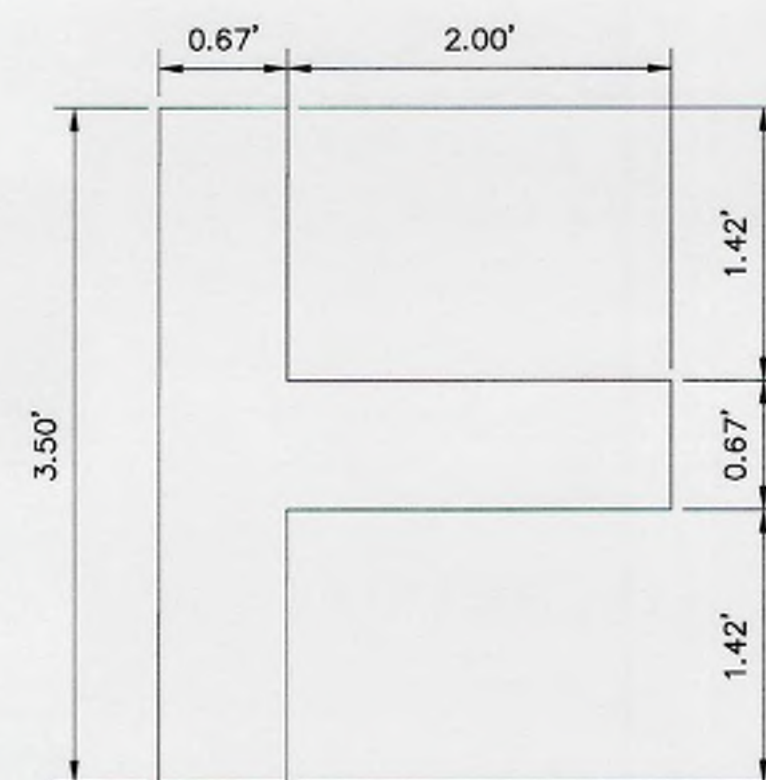
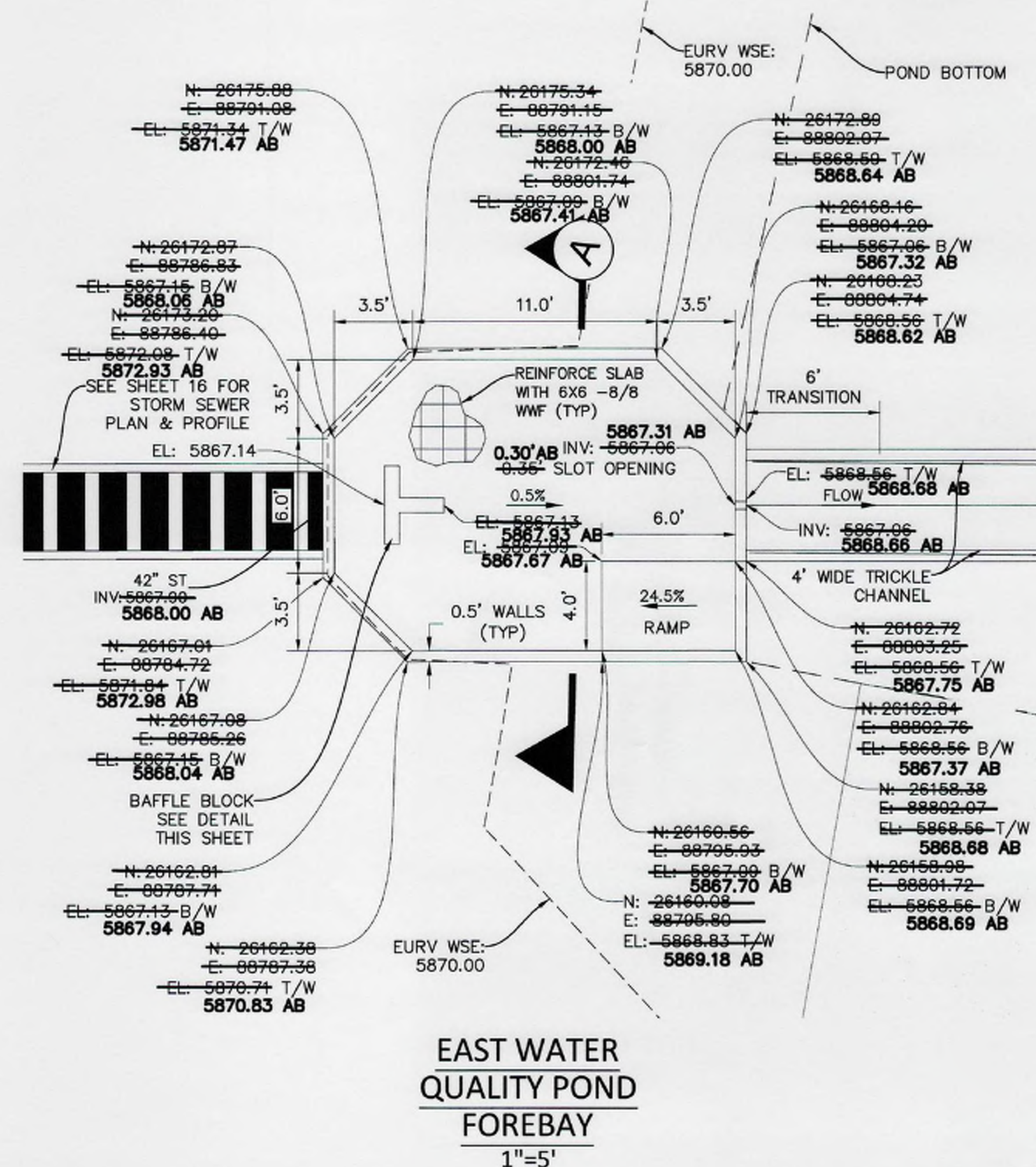
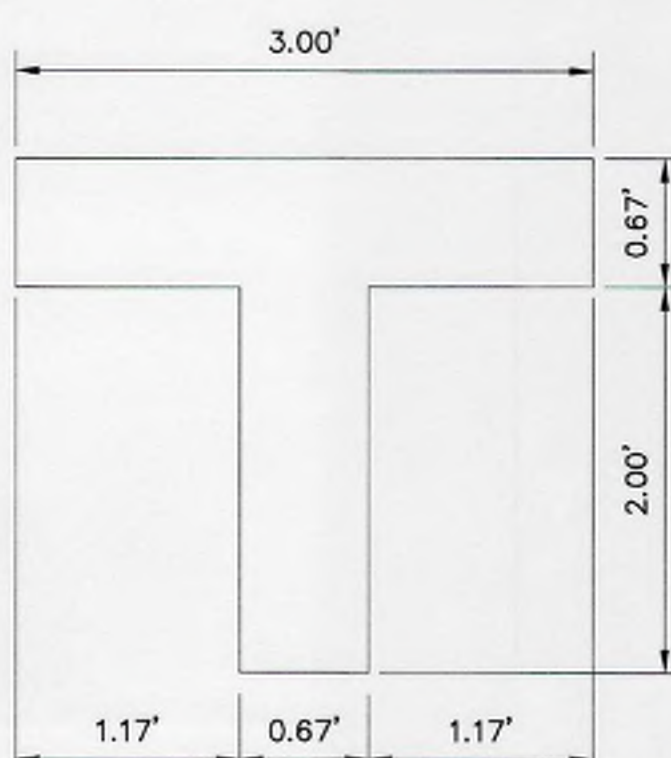
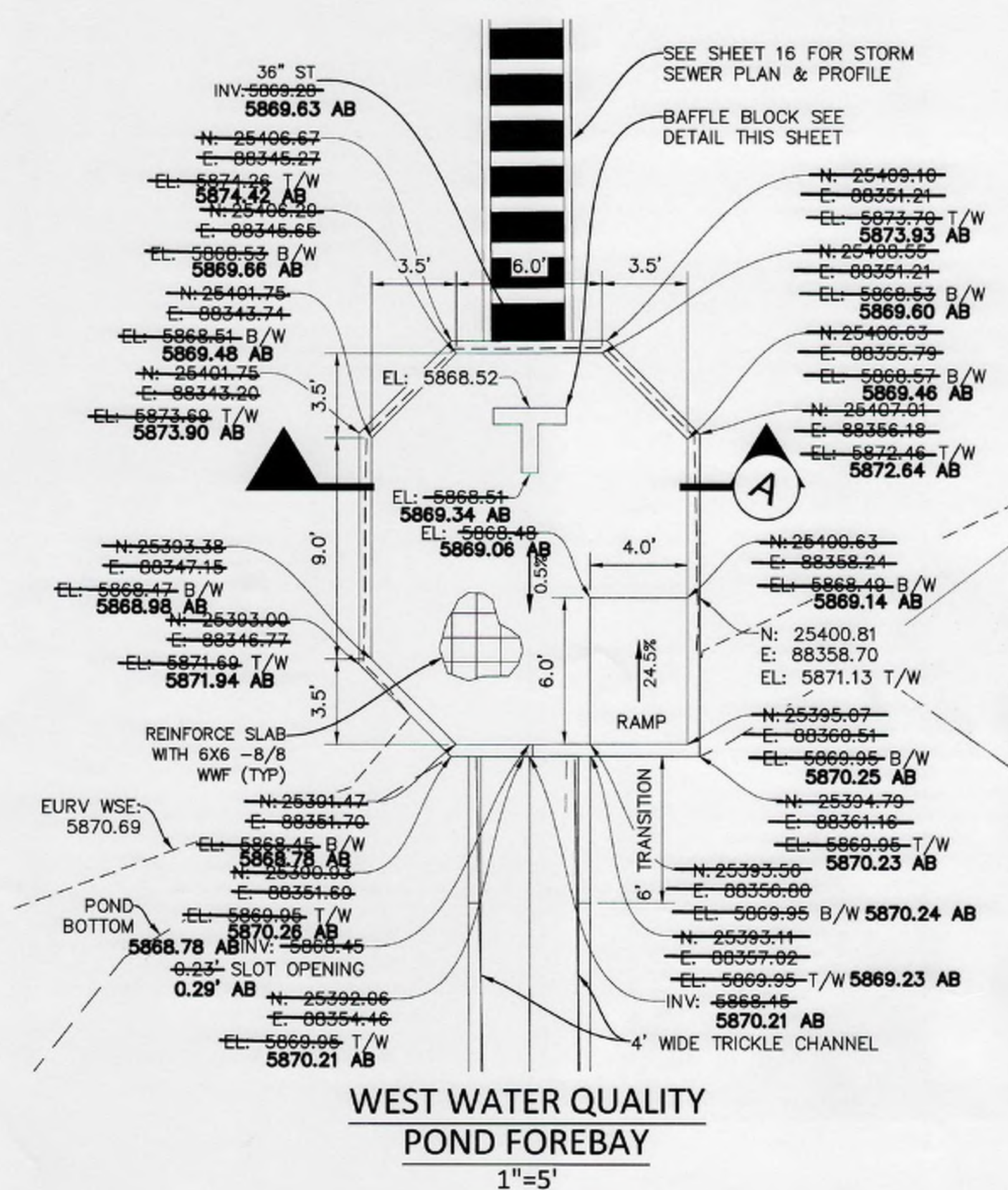
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Civil Engineering | Surveying & Geospatial Services | GIS
Water Resource Management | Construction Management

COMPARK VILLAGE SOUTH, FILING NO 1 - BELFORD AVENUE
TOWN OF PARKER, COLORADO
OUTLET STRUCTURE EAST

PROJ. MGR.: RJM
PROJ. ASSOC.: BRB
DRAWN BY: ETG
DATE: 12/2015
SHEET
31 OF 50
CLOPKC3

RECORD DRAWING



As-Built Recordation

ONLY ITEMS MARKED WITH "AS" REFLECT AS-CONSTRUCTED INFORMATION BY MARSHAD CONSULTING. "AS" INDICATES AS-CONSTRUCTED INFORMATION SHEETS. "AS-CONSTRUCTED" INFORMATION IS SHOWN ONLY FOR THE ITEMS INDICATED BELOW. UNLESS EXPLICITLY MARKED WITH "AS" OR "ASO", CONSTRUCTED CONDITIONS SHOULD NOT BE ASSUMED.

☐	FOR REFERENCE ONLY	DATE
☐	ROADWAY	DATE
☐	SANITARY SEWER	DATE
☒	STORM SEWER	DATE <u>07/2022</u>
☐	WATER	DATE



TOWN OF PARKER APPROVALS

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

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TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS

DATE _____

COMPARK VILLAGE SOUTH, FILING NO 1 - BELFORD AVENUE

TOWN OF PARKER, COLORADO

WATER QUALITY FOREBAY PLAN

PROJ. M
PROJ. A
DRAWN
DATE:

PROJ. A
DRAWN
DATE:

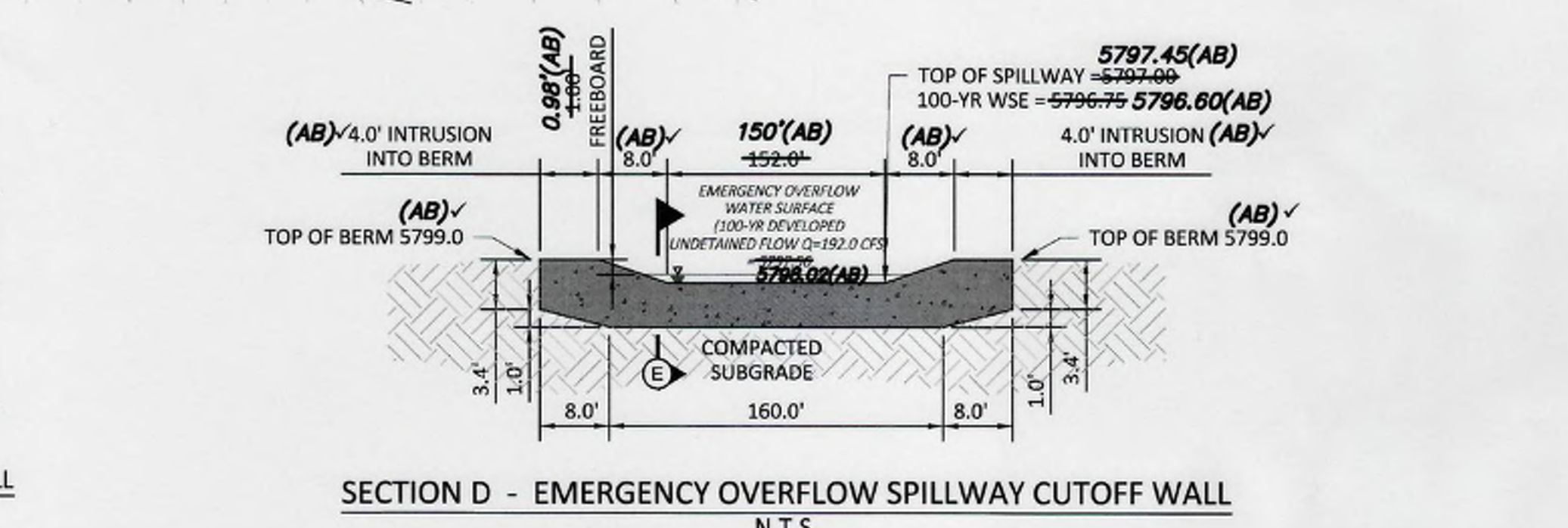
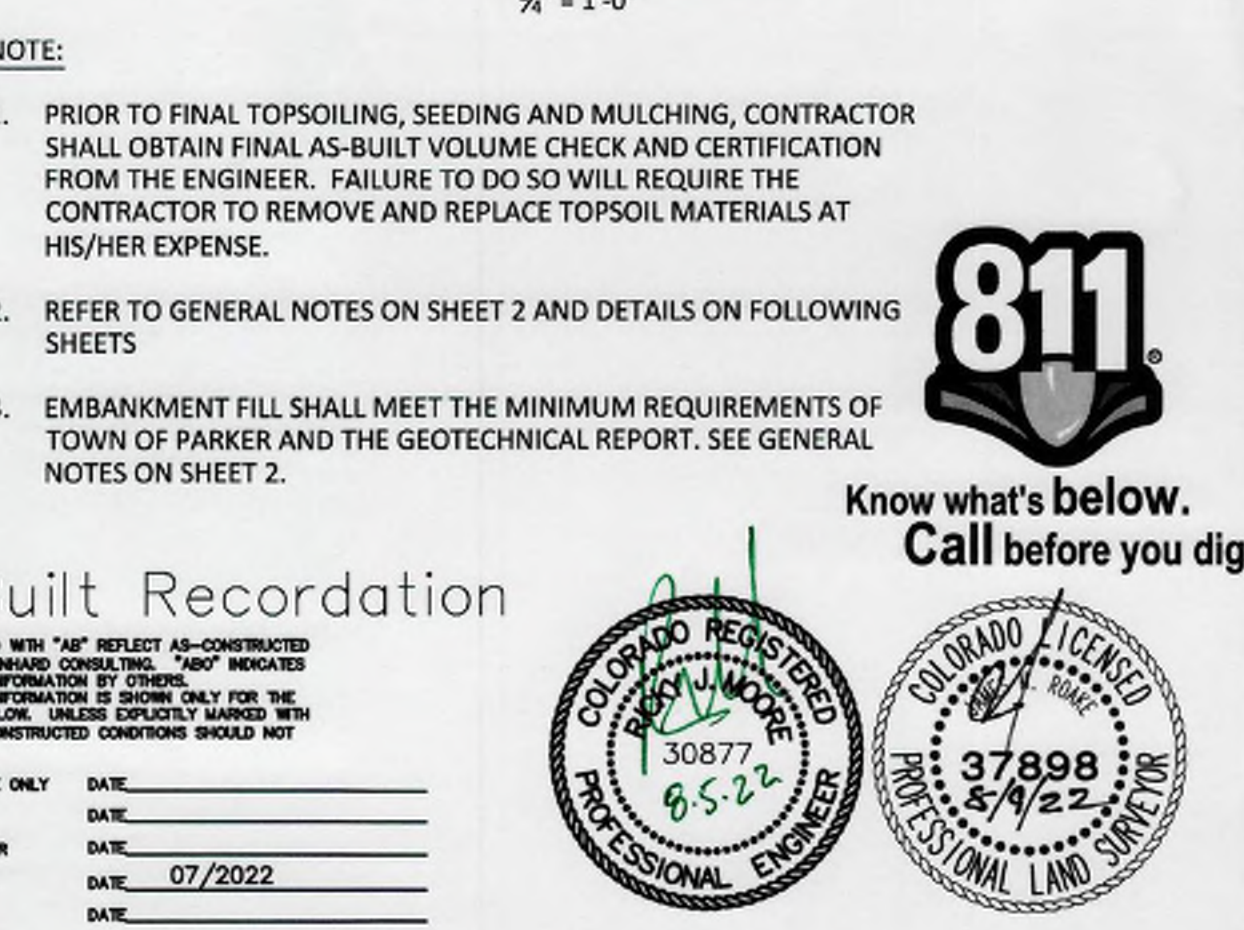
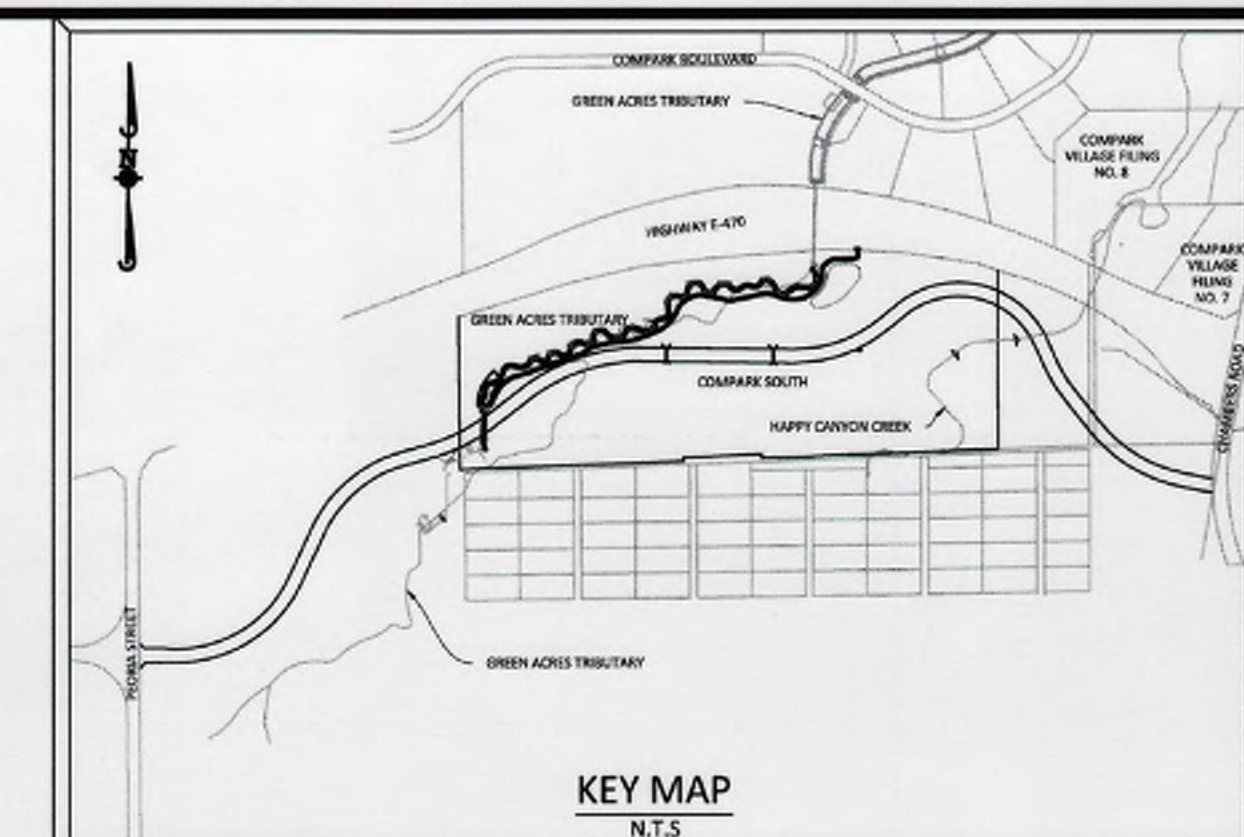
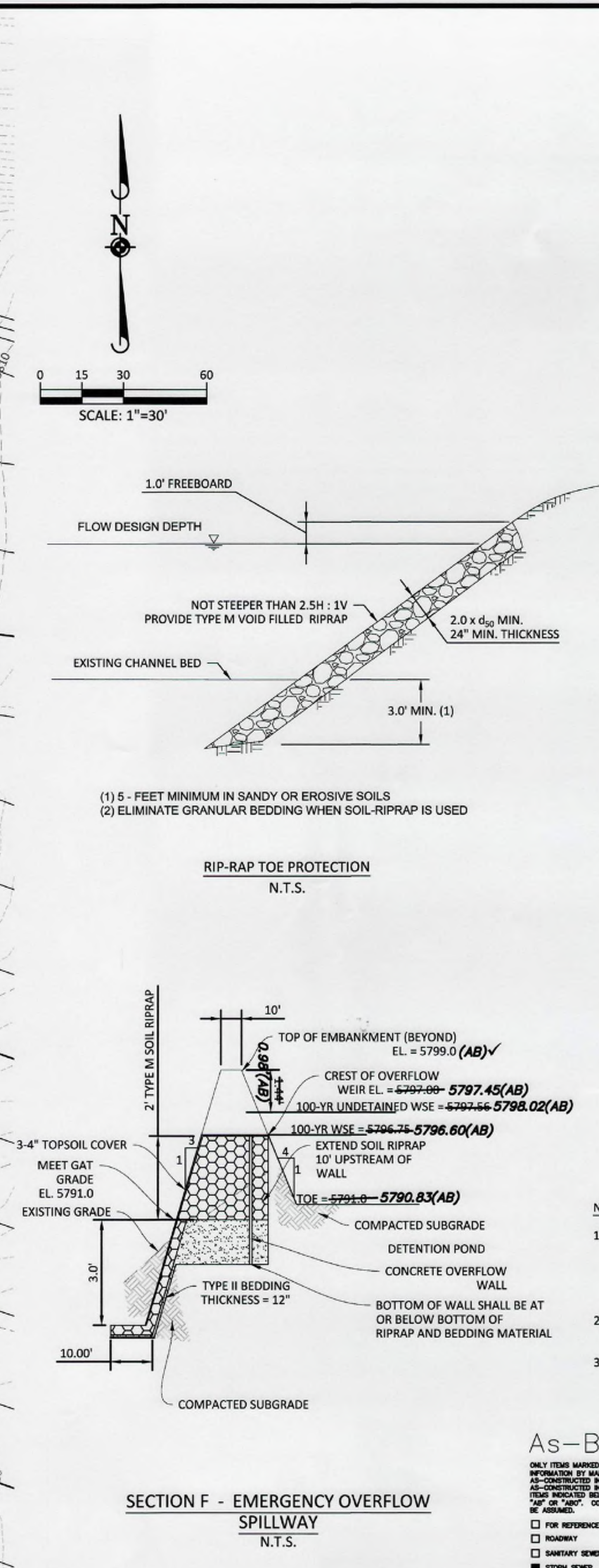
DATE:

DATE:

SHEET

32 OF 50

CLCE

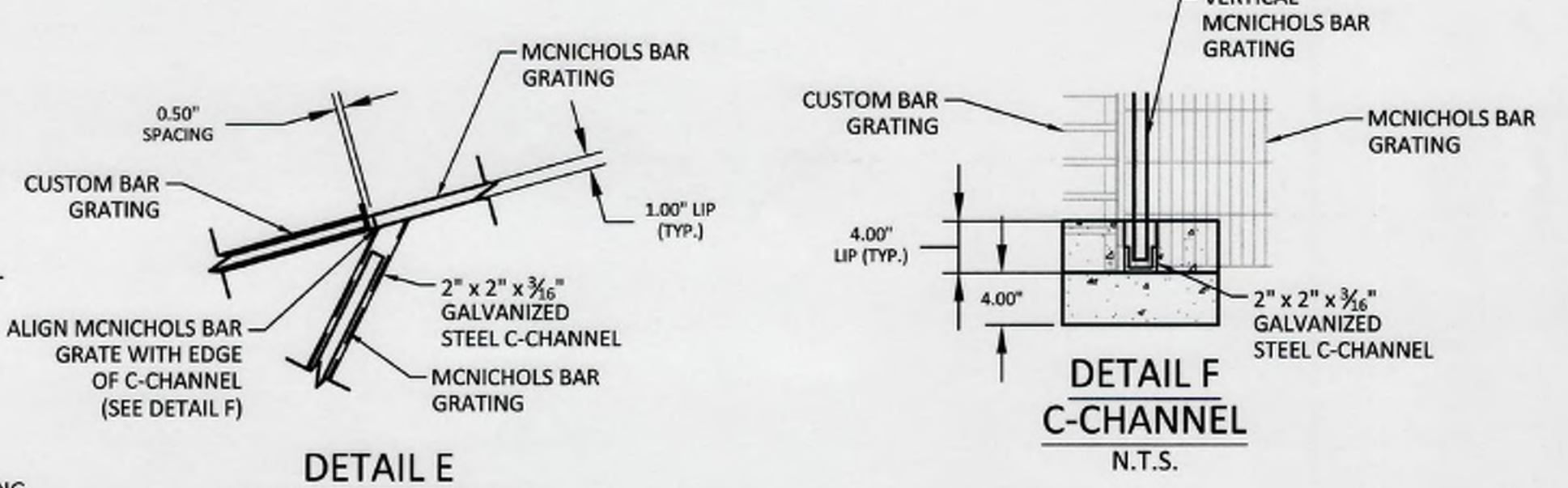
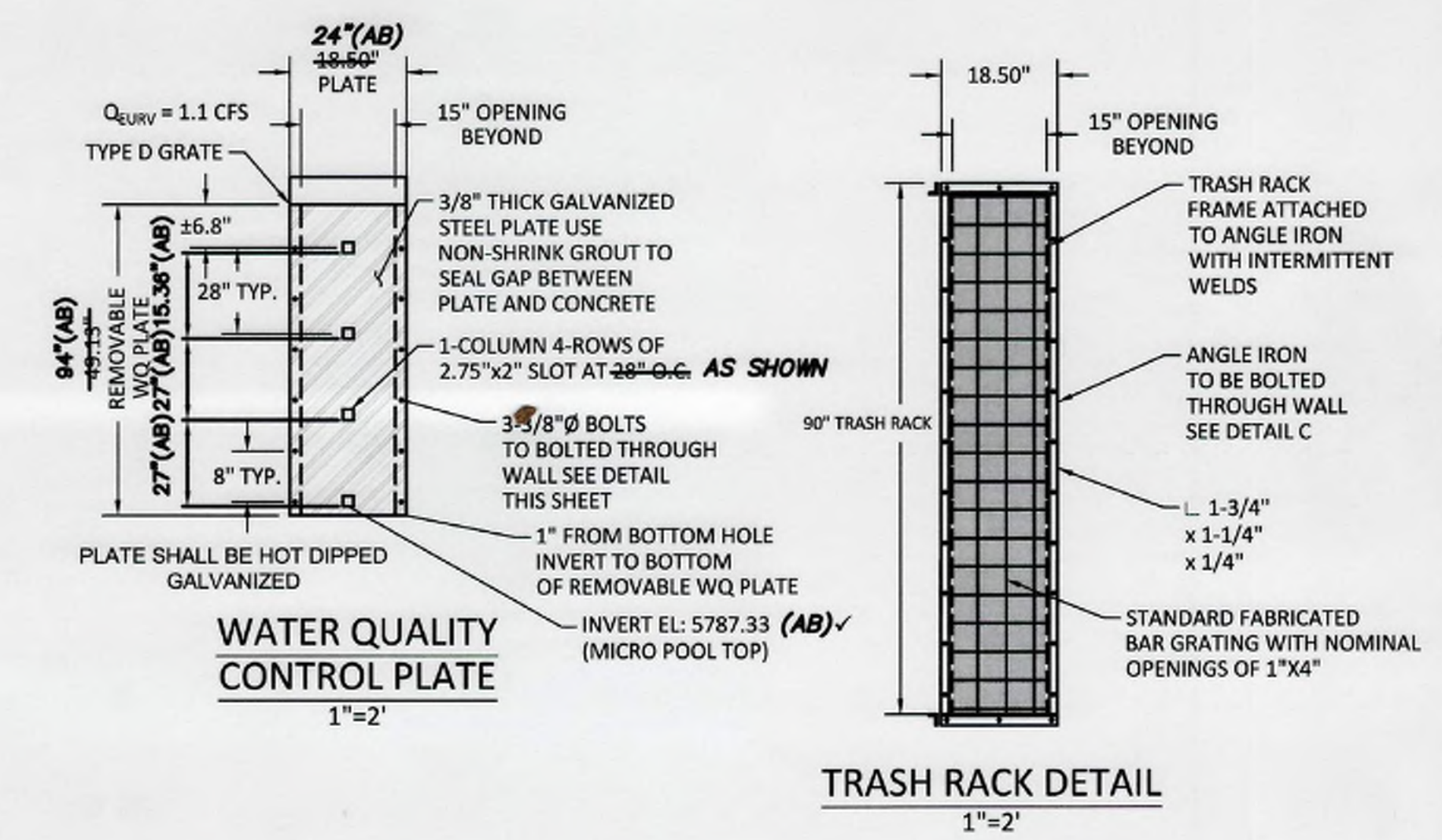


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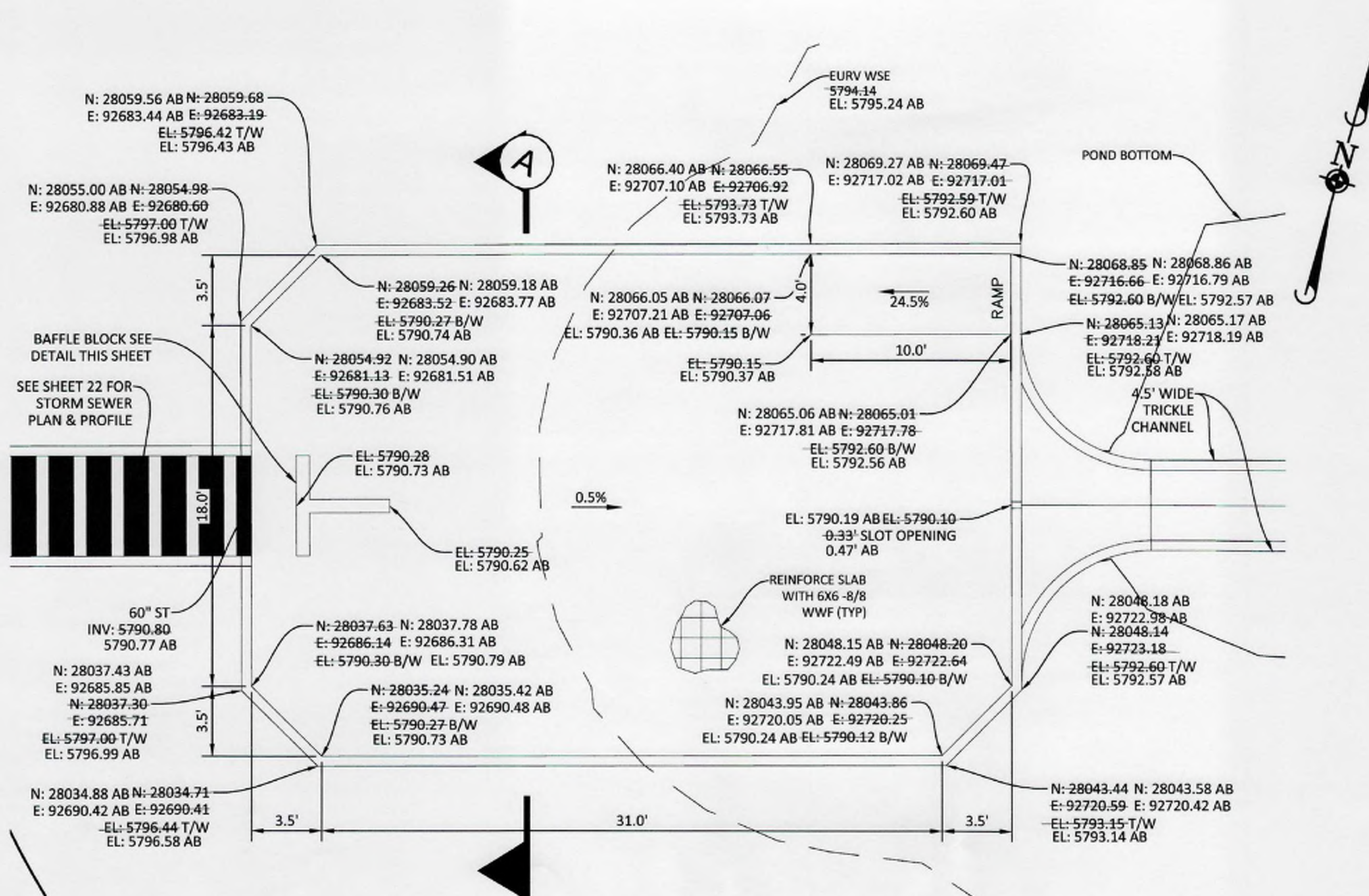
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TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS	DATE
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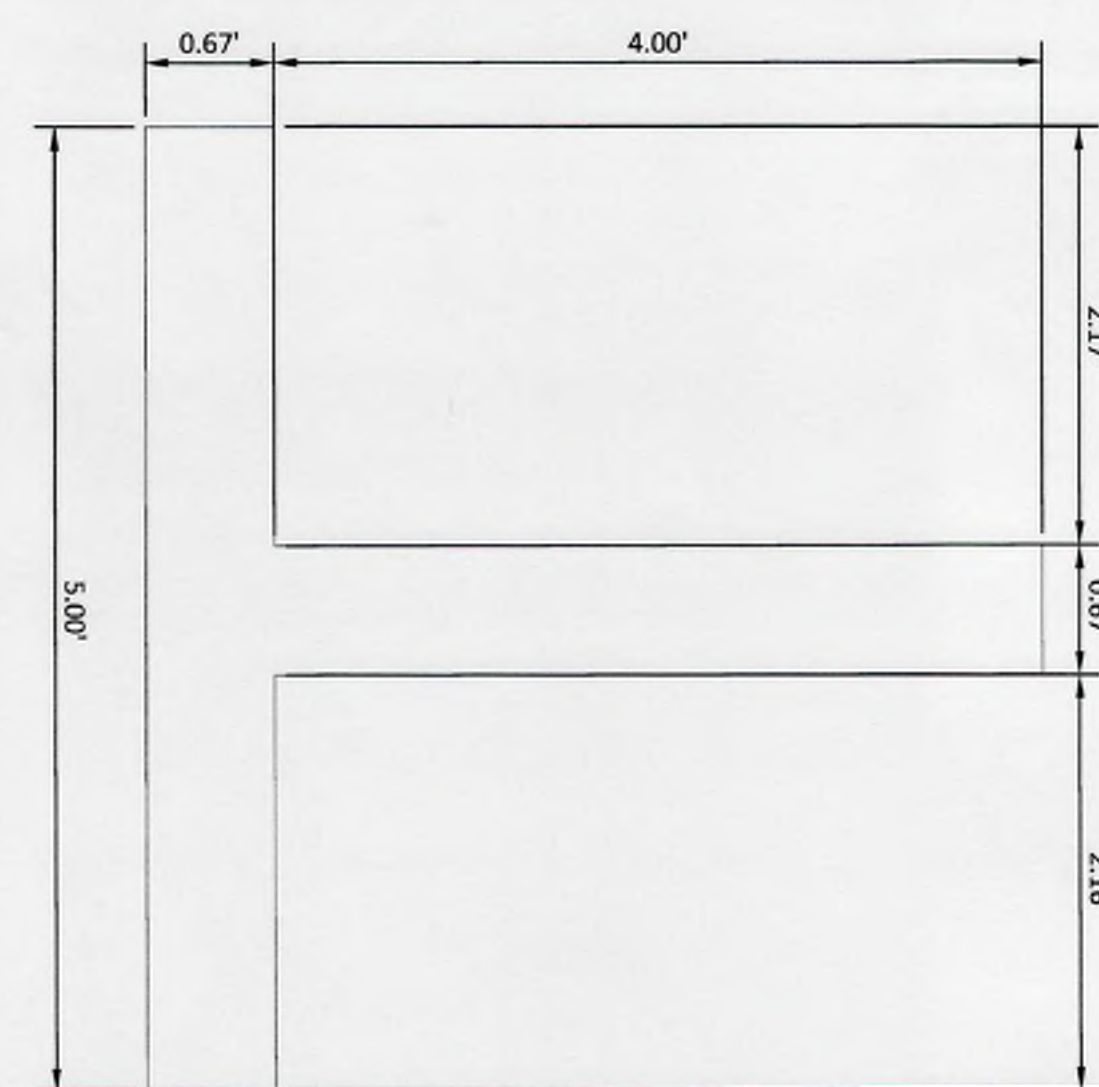


COMPARK VILLAGE SOUTH, FILING NO 1 - BELFORD AVENUE TOWN OF PARKER, COLORADO DETENTION POND OUTLET STRUCTURE DETAIL		PROJECT: MANHARD CONSULTING PROJECT NO.: 2020-001 PROJECT LOCATION: 7800 East Orchard Road, Suite 150-N, Greenwood Village, CO 80111 PROJECT DESCRIPTION: Surveying & Geospatial Services GIS Construction Management Water Resource Management	
PROJECT MGR.: RJM PROJECT ASSOC.: BBB DRAWN BY: ETG DATE: 12/20/2015	SHEET 34 OF 50 CLCPK3		

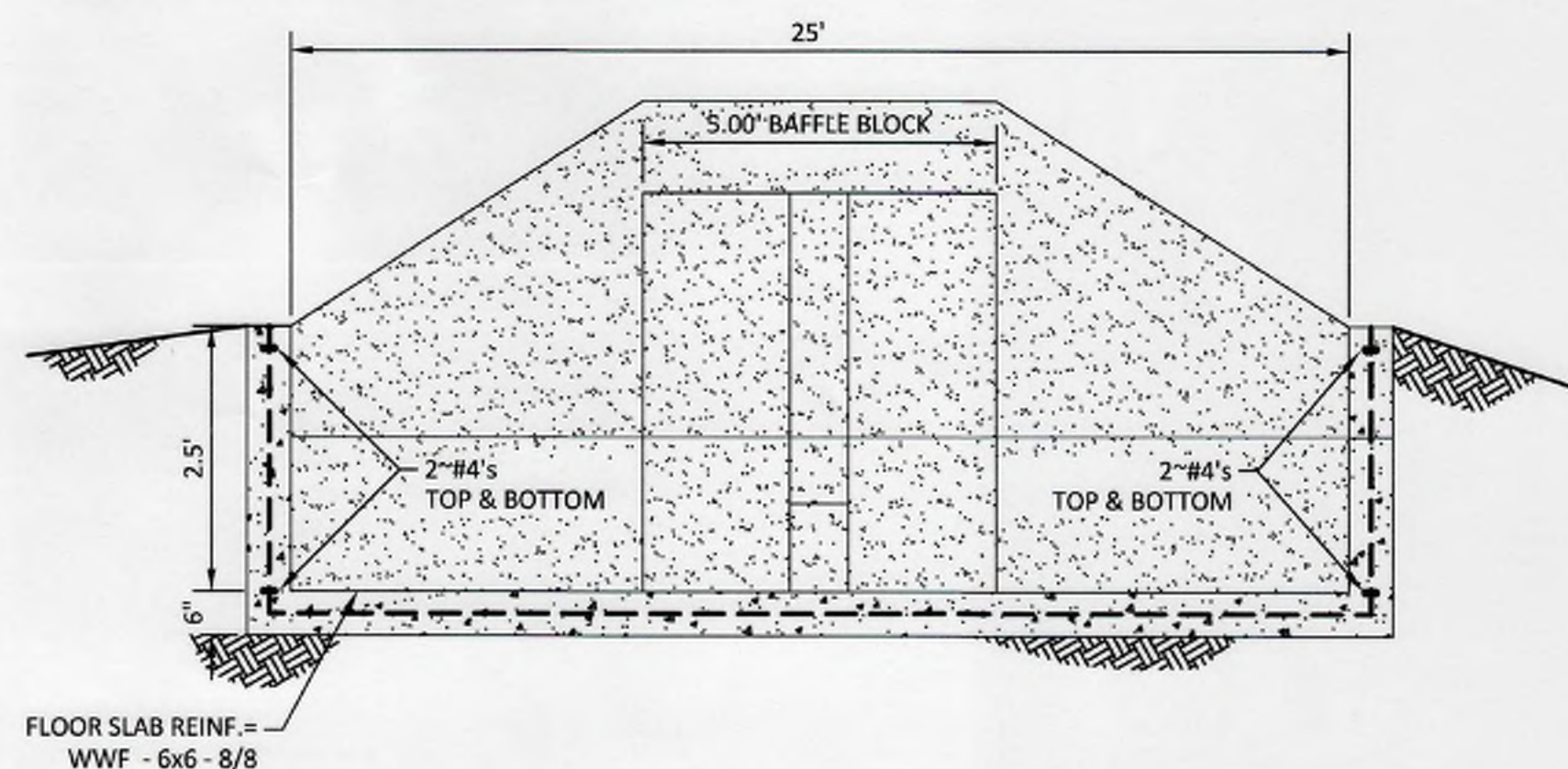
Plotted: 8/4/2022 11:20 AM. Draw Name: P:\Projects\3\Compark Village South\12-Filing 1 No GAT\Compark Village South\12-Filing 1 No GAT\Drawings\Detention Pond - Forebay Plan.dwg. Updated By: JDRucker



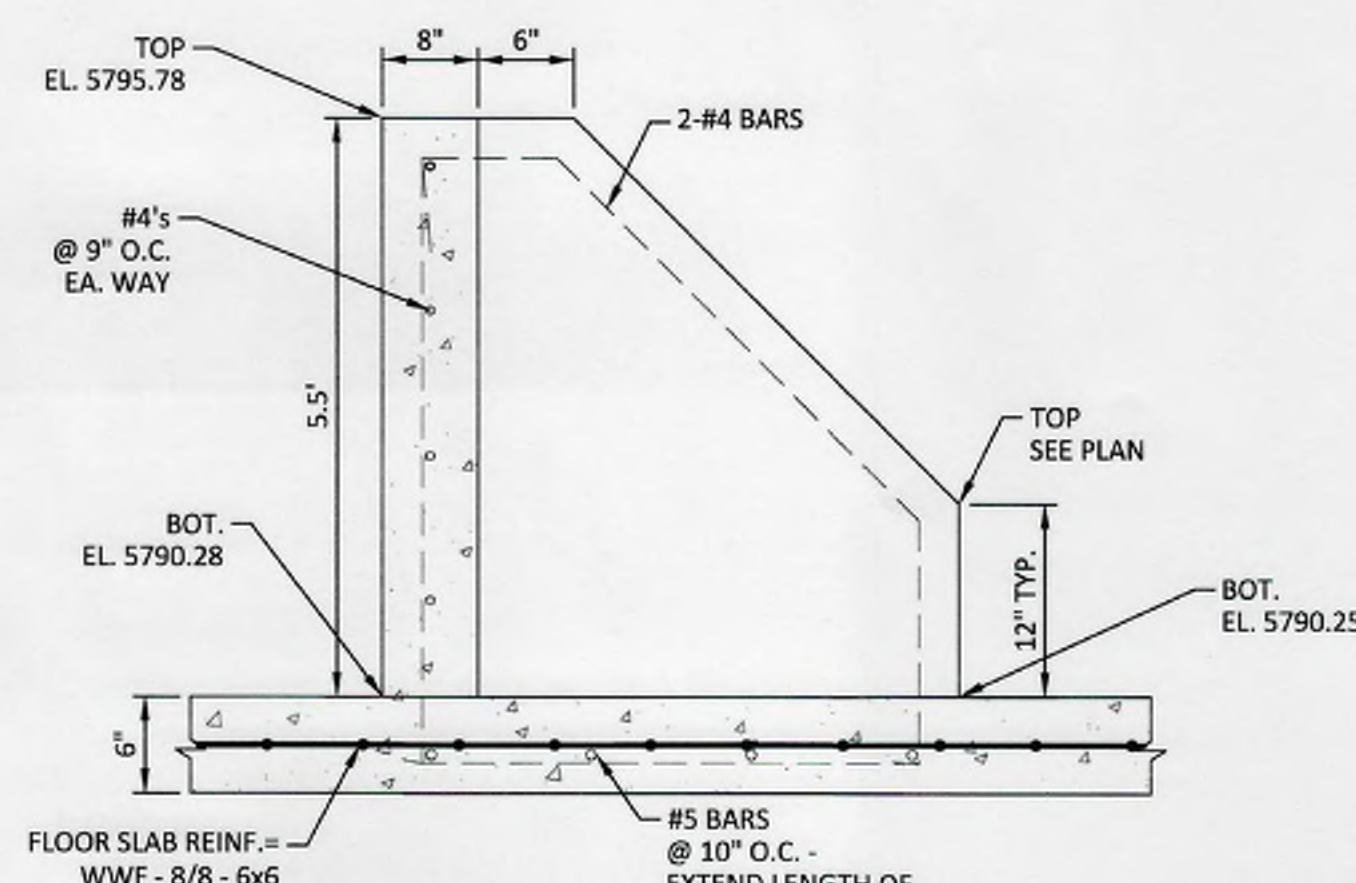
DETENTION POND
FOREBAY A
1"=5'



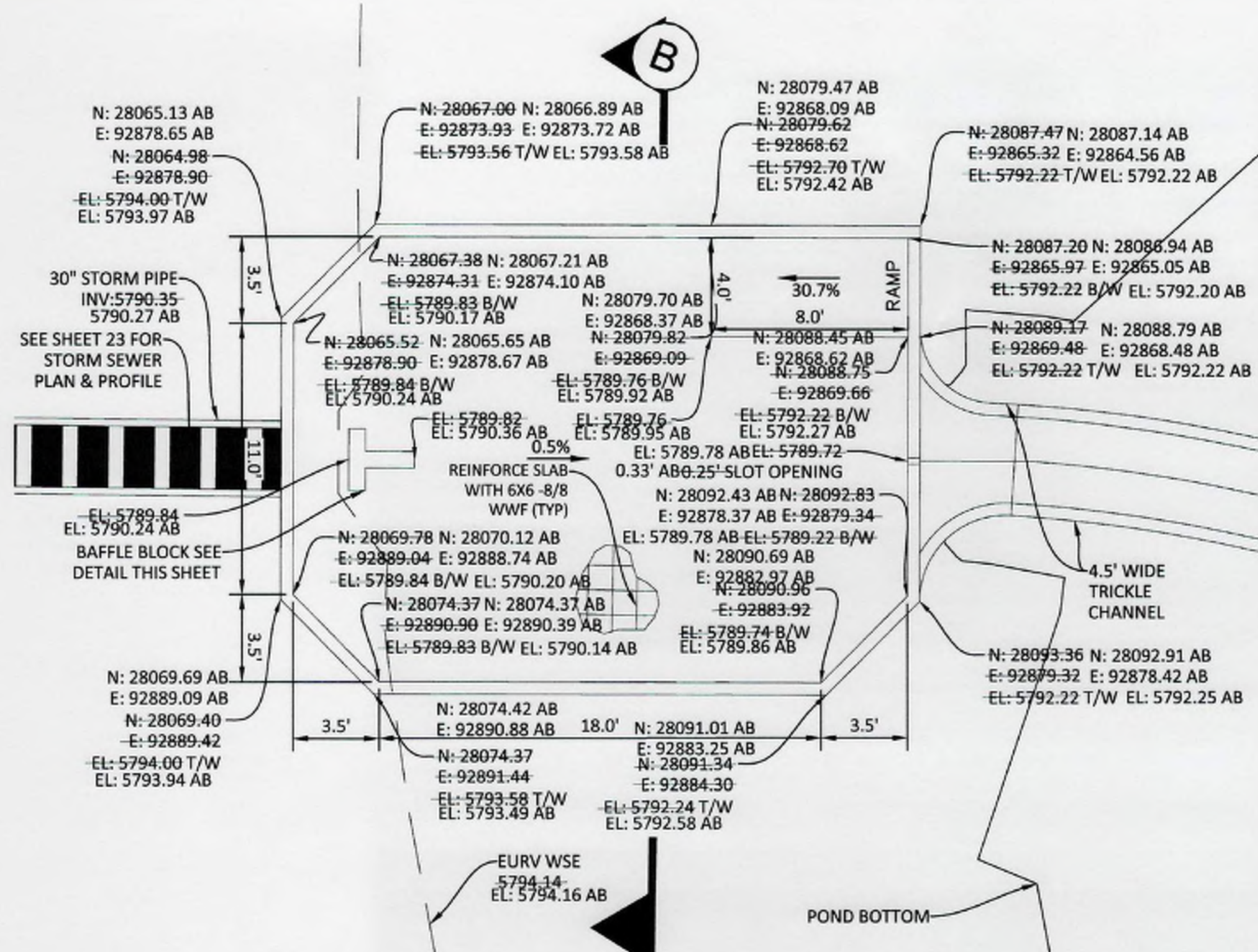
DETENTION POND
FOREBAY A
BAFFLE BLOCK DETAIL
1"=1'



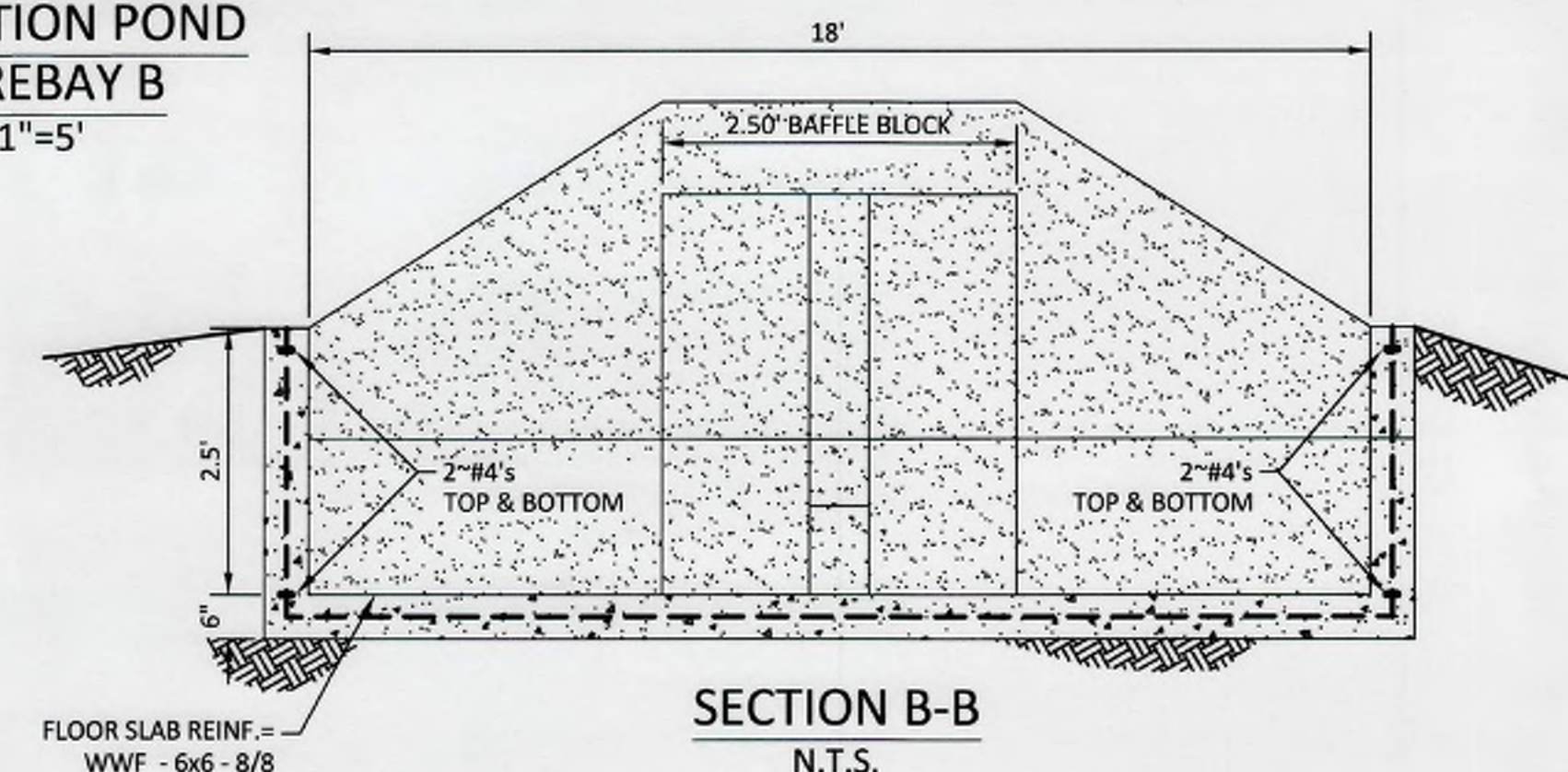
SECTION A-A
N.T.S.



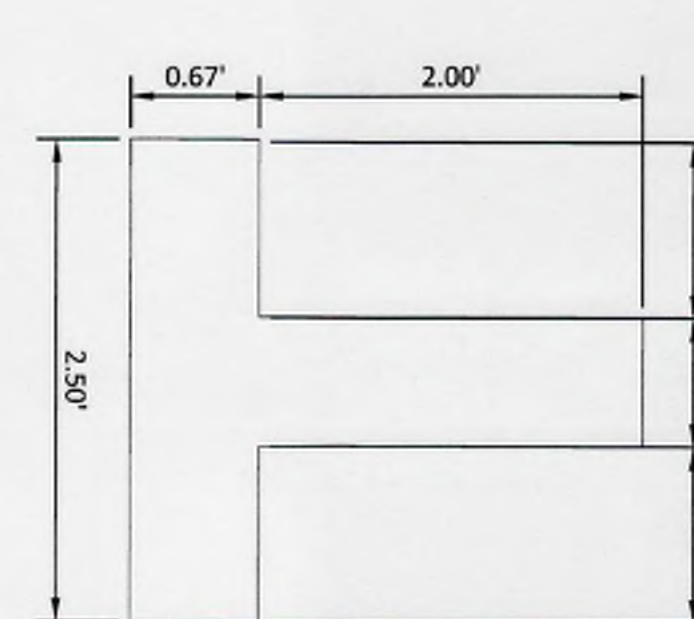
BAFFLE BLOCK
REINFORCING DETAIL
1"=0.5'



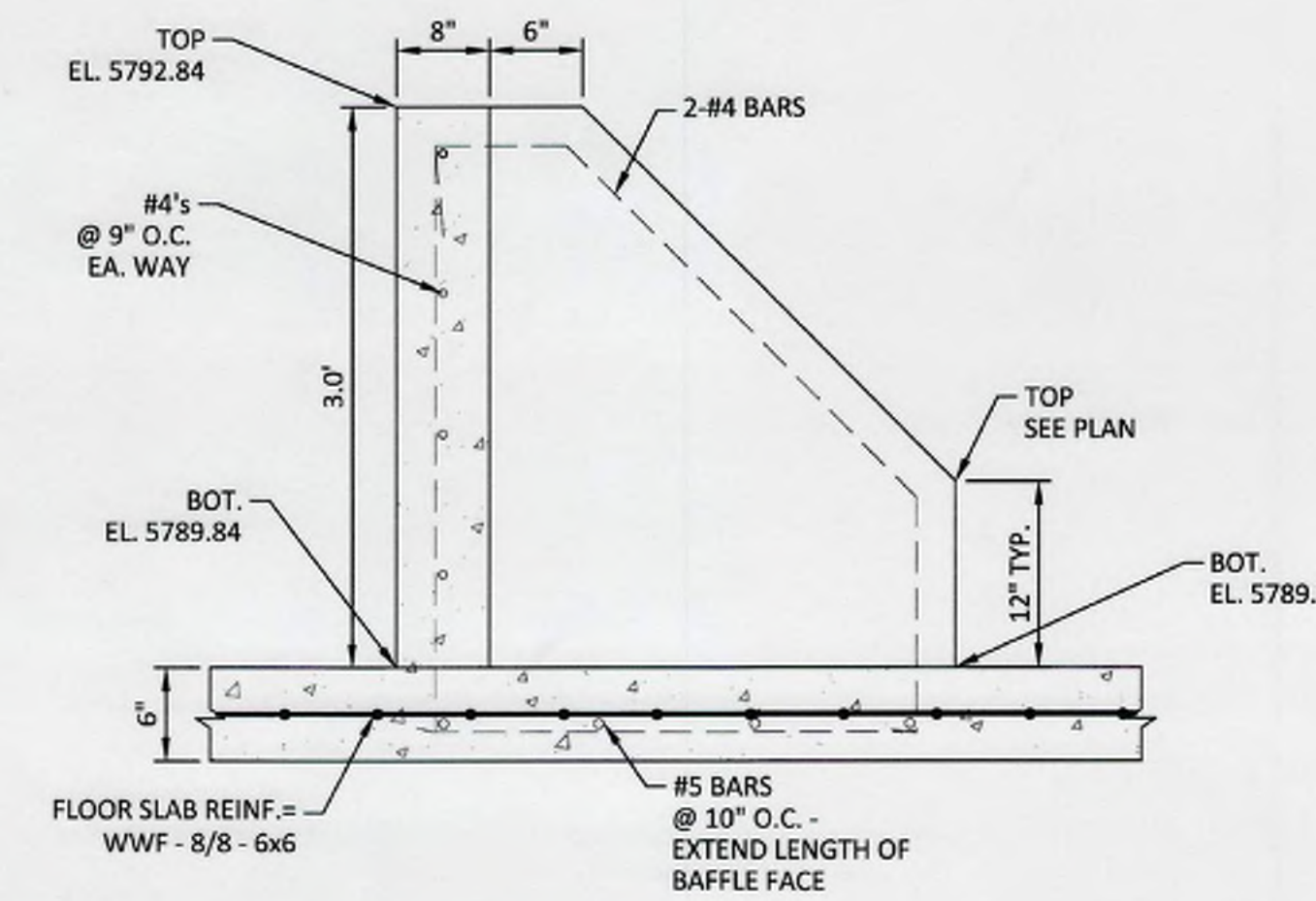
DETENTION POND
FOREBAY B
1"=5'



SECTION B-B
N.T.S.



DETENTION POND
FOREBAY B
BAFFLE BLOCK DETAIL
1"=1'



BAFFLE BLOCK
REINFORCING DETAIL
1"=0.5'

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TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS

DATE

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☐ FOR REFERENCE ONLY
☐ ROADWAY
☐ SANITARY SEWER
☐ STORM SEWER
☐ WATER

DATE: 07/2022



DATE	APPROVED	REVISIONS
07/11/20	MANHARD CONSULTING	RESPONDED TO TOWN COMMENTS
07/11/20	MANHARD CONSULTING	UPDATE GAT & ADD OFF-LINE BASIN
07/11/20	MANHARD CONSULTING	FINAL SUBMITTAL
07/11/20	MANHARD CONSULTING	3RD SUBMITTAL
07/11/20	MANHARD CONSULTING	2ND SUBMITTAL
07/11/20	MANHARD CONSULTING	1ST SUBMITTAL



COMPARK VILLAGE SOUTH, FILING NO 1 - BELFORD AVENUE

TOWN OF PARKER, COLORADO

DETENTION POND FOREBAY PLAN

PROJ. MGR.: RUM

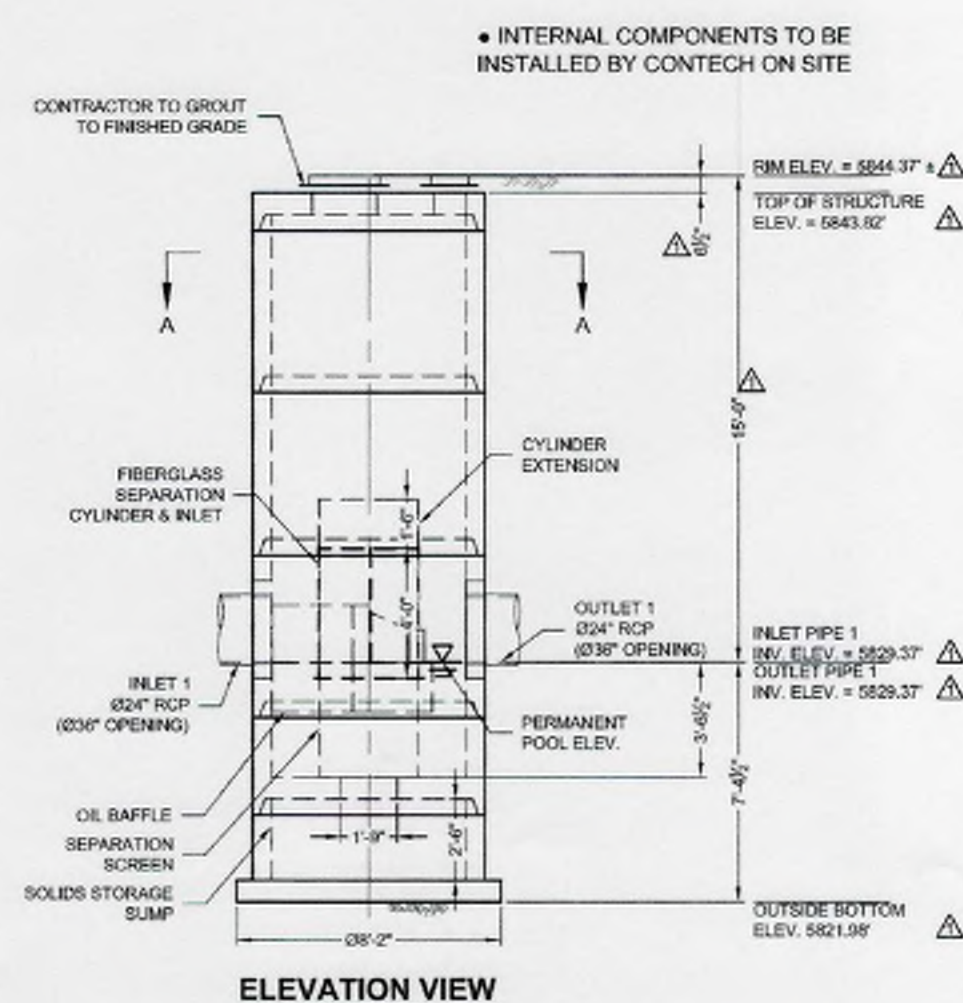
PROJ. ASSOC.: BRB

DRAWN BY: ETG

DATE: 12/2015

SHEET 35 OF 50

CLCPKC3



MATERIAL LIST (PROVIDED BY CONTECH)		SITE DESIGN DATA	
COUNT	DESCRIPTION	INSTALLED BY	WATER QUALITY FLOW RATE
1	FIBERGLASS INLET AND CYLINDER	CONTECH	0 GFS
1	3400 PRESS. 3' OD, 13.0' SEP. SCREEN	CONTECH	29.2 CFS
	CYLINDER EXTENSION	CONTECH	RETURN PERIOD OF 100 YRS
1	SEALANT FOR JOINTS (BY PRECASTER)	CONTRACTOR	
1	036" x 4" FRAME & COVER, EJLB41600369, OR EQUIV.	CONTRACTOR	
2	012" x 4" FRAME & COVER, EJLB41610201, OR EQUIV.	CONTRACTOR	

GENERAL NOTES

1. CONTACT TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR FABRICATION DRAWINGS WITH KEYS & STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTACTED ENGINEER/SOLUTIONS LLC REPRESENTATIVE.
3. CDS WATER QUALITY CALLOUT SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS SPECIFICATION. THE CONTRACTOR SHALL PROVIDE ALL STRUCTURE WATER USES REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL BE MAINTAINED 10% OVER LOAD RATING, ASSUMING EARTH COVER OF 0'-2" AND GROUNDWATER ELEVATION AT, OR BELOW, THE TOP OF THE STRUCTURE. THE CONTRACTOR SHALL PROVIDE A COMBINATION FACTOR, GROUNDWATER ELEVATION, CASTING, SHALL MEET ASHPO M006 AND BE CAST WITH THE CONCRETE LOG.
5. IF REQUIRED, THE IDEALISTIC SHALL BE CAST IN PLACES OR CONFORM TO BOTTOM OF CASTING CYLINDER.
6. REMOVE AND REPLACE NECESSARY DURING MAINTENANCE CLEANING.
7. CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND ASHPO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

1. BIDDING SHALL INCLUDE ALL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
3. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
4. CONTRACTOR TO PREPARE ALL JOINTS AND SURFACES TO MATCH PIPE SIZES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE JOINT CENTERLINES.
5. CONTRACTOR TO TAKE ALL NECESSARY MEASURES TO PREVENT EXCESSIVE WATER INLET. WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL OPENINGS BELOW PIPE INVERTS ARE GROUDED.

STRUCTURE WEIGHT
APPROXIMATE HEAVIEST RICK = 10000 LBS

CONTECH
CONTRACT
EXCLUSIVO

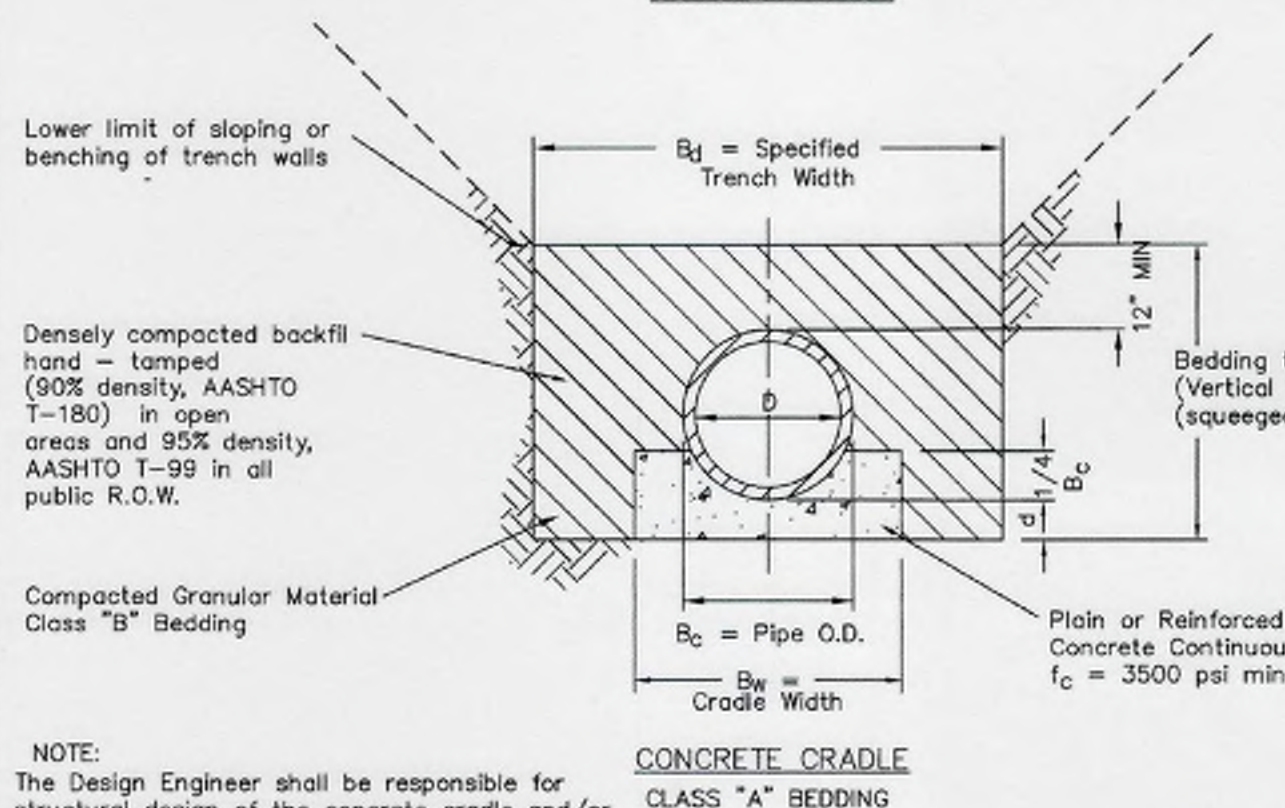
CDS3030-6-C - 542946-10
COMPARK SOUTH
PARKER, CO
for SYSTEM: STMH 1-3



CONTECH®
ENGINEERED SOLUTIONS LLC
www.contechsolutions.com
1011 N. WIND LANE, SUITE 110, DALLAS, TX 75243
(972) 967-0000 (972) 967-0001 FAX



DATE: 07/15/16	SCALE: 3/16" = 1"
DESIGNED: JHR	DRAWN: KJW
CHECKED: XXX	APPROVED: _____
PROJECT NO: 042940	SEQUENCE NO: 10
SHEET: 1 OF 2	



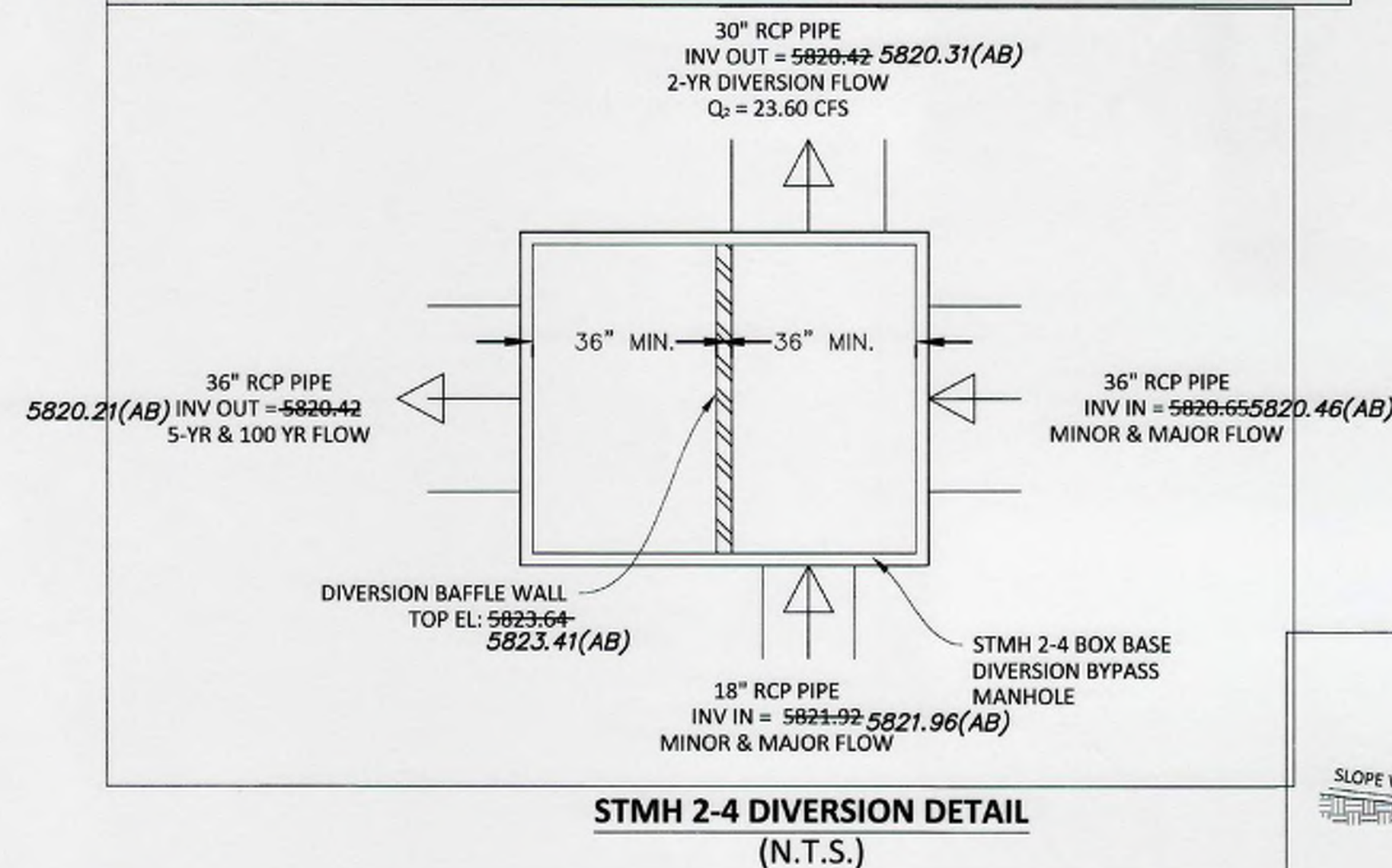
NOTE:
The Design Engineer shall be responsible for structural design of the concrete cradle and/or concrete arch.

NOMINAL DIAMETER (D)	MINIMUM THICKNESS (d)	MIN. WIDTH OF CRADLE (B_w)
18" & smaller	6"	$B_c + 8"$
21" to 24"	6"	$B_c + 8"$
27" to 33"	8"	$B_c + 8"$
36" to 42"	10"	$1.25 B_c$
48" & larger	$1/4 D$	$1.25 B_c$

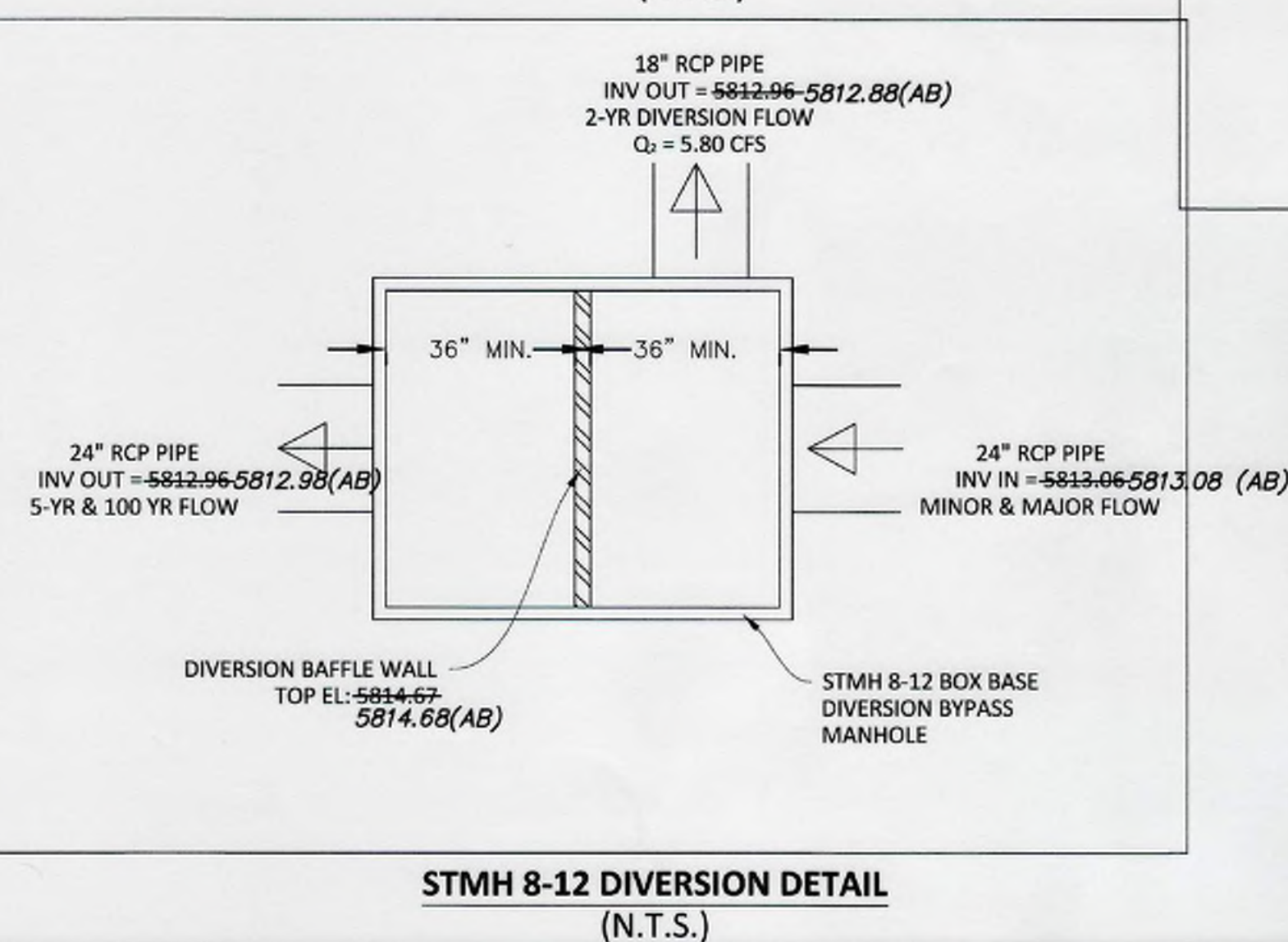
PARKER WATER & SANITATION DISTRICT
TRENCHING AND BEDDING DETAIL - CLASS "A"

SCALE: <u>NONE</u>	DATE: <u>2/96</u>
APPROVED: <u>PVR</u>	<u>1/18</u> <u>10/16</u>
<u>APPROVED BY SUPERVISOR</u>	

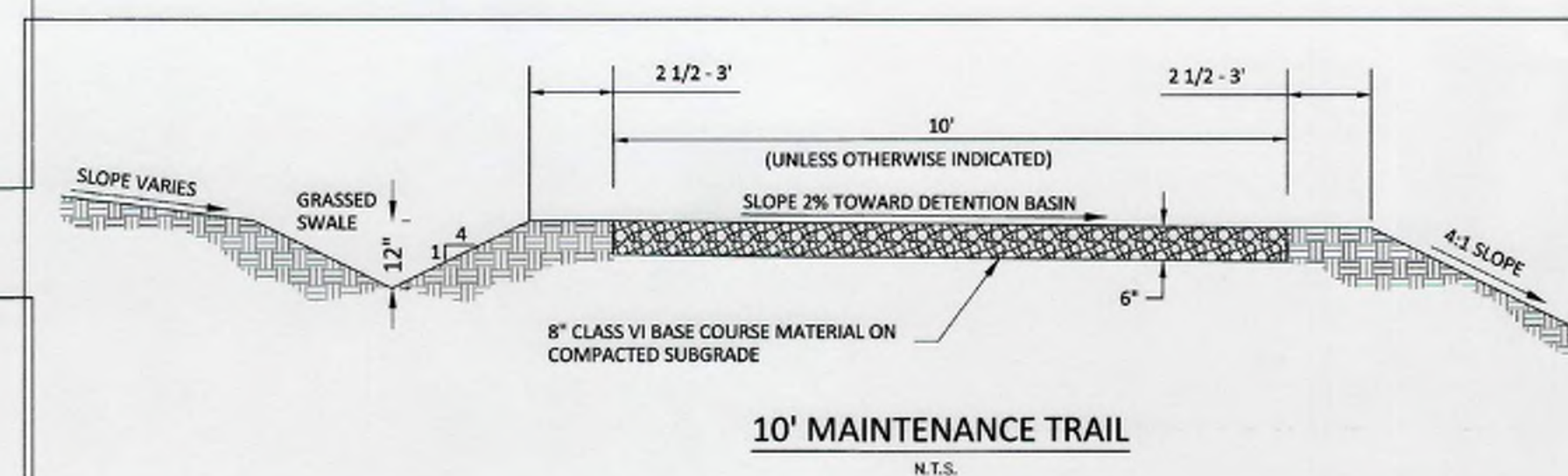
2016 REVISION



STMH 2-4 DIVERSION DETAIL
(N.T.S.)



STMH 8-12 DIVERSION DETAIL
(N.T.S.)



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☐ FOR REFERENCE ONLY DATE _____
☐ ROADWAY DATE _____
☐ SANITARY SEWER DATE _____
☒ STORM SEWER DATE 07/2022
☐ WATER DATE _____



Know what's below.
Call before you dig

COMPARK VILLAGE SOUTH, FILING NO 1 - BELFORD AVENUE

TOWN OF PARKER, COLORADO

STORM DETAILS

PROJ. MGR.: RJM
PROJ. ASSOC.: BRB
DRAWN BY: ETG
DATE: 12/2015

SHEET

50 5

50 OF 5

50 5

CLCPKC3

Plotted: 8/4/2022 11:21 AM Dwg Name: P:\clcpk3\ComSouth03-Ultimate Belford Ave\dwg\Eng\Final Drawings\Plan Set\Town\RECORD DRAWINGS\CLCPK3-Storm Details.dwg Updated By: ADrucker