

# BOGUE BROOK RESERVOIR DAM REHABILITATION PROJECT

MONTVILLE, CONNECTICUT

NID # CT00235 STATE ID # 8602

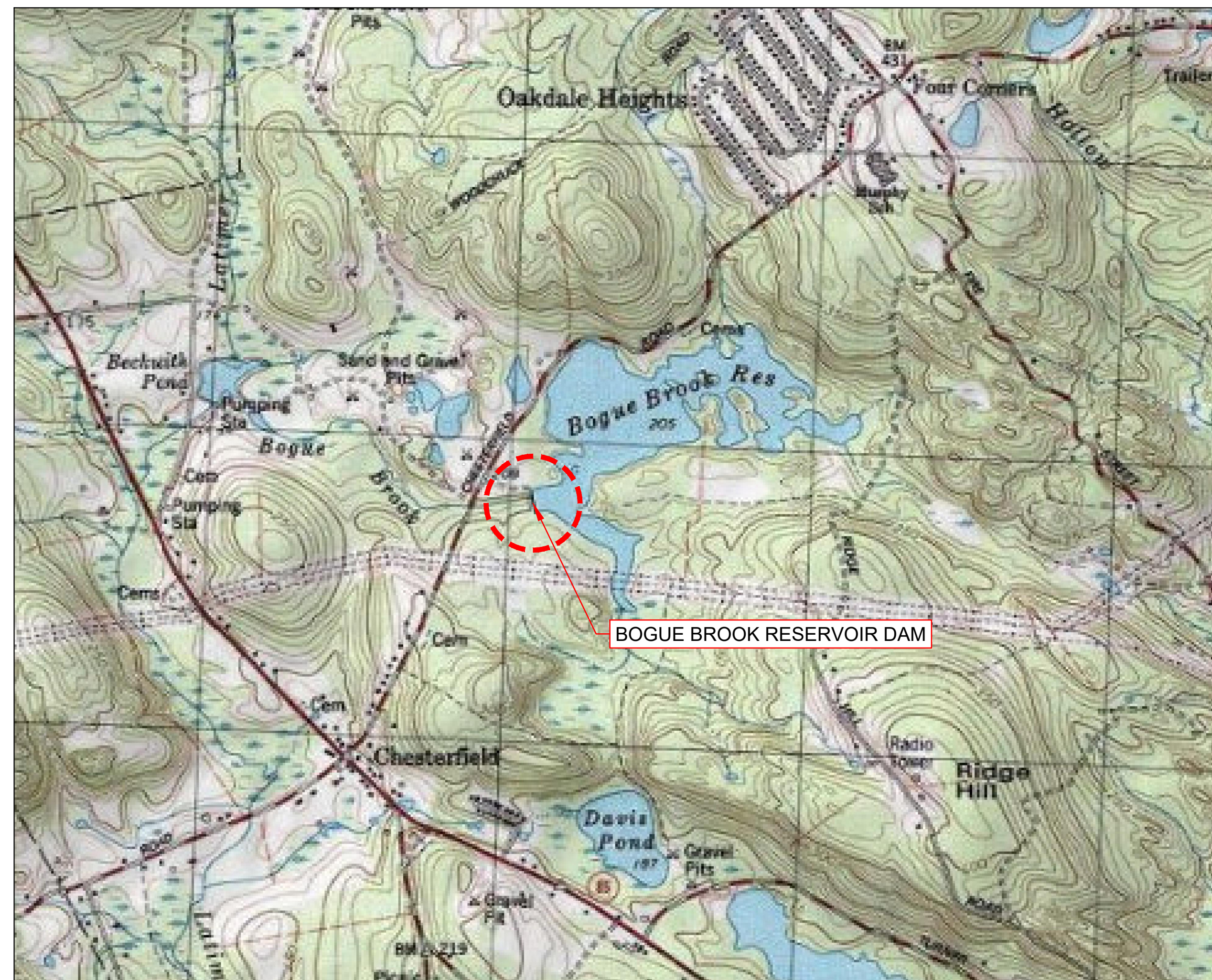
## DAM OWNER AND OPERATOR

THE CITY OF NEW LONDON  
120 BROAD STREET  
NEW LONDON, CONNECTICUT 06320



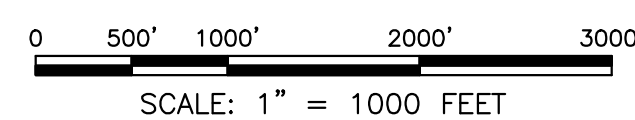
## PROJECT ENGINEER

GZA GEOENVIRONMENTAL, INC.  
249 VANDERBILT AVE.  
NORWOOD, MASSACHUSETTS 02062

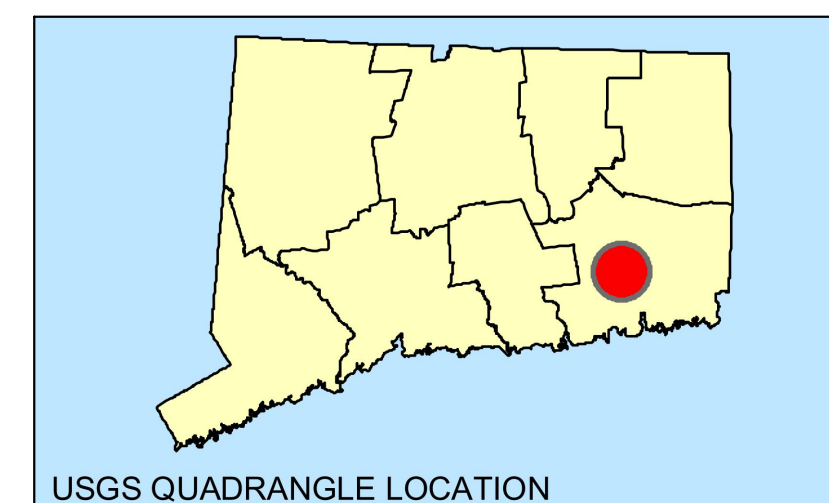


## PROJECT LOCUS MAP

SOURCE: THIS MAP CONTAINS THE ESRI ARCGIS ONLINE USA TOPOGRAPHIC MAP SERVICE, PUBLISHED DECEMBER 2009 BY ESRI RCIMS SERVICES. LAST UPDATED MARCH 2014.



NOTE: ALL SCALES APPLICABLE FOR 24"X36" DRAWINGS. USE SCALE BAR FOR ALTERNATE SIZE DRAWINGS.



## INDEX OF DRAWINGS

### GENERAL

- G-1 TITLE SHEET, SITE LOCUS AND INDEX OF DRAWINGS
- G-2 GENERAL NOTES AND CONSTRUCTION SEQUENCE
- G-3 EXISTING CONDITIONS PLAN
- G-4 EXISTING CONDITIONS SECTIONS (1 OF 2)
- G-5 EXISTING CONDITIONS SECTIONS (2 OF 2)
- G-6 EXISTING CONDITIONS DOWNSTREAM ELEVATION SECTION

### CIVIL

- C-1 SEDIMENT AND EROSION CONTROL, WATER CONTROL, SITE ACCESS, STAGING, AND STOCKPILING PLAN
- C-2 DOWNSTREAM SEDIMENT AND EROSION CONTROL, WATER CONTROL, SITE ACCESS PLAN
- C-3 FINAL CONDITIONS PLAN
- C-4 FINAL CONDITIONS SECTIONS AND DETAILS (1 OF 3)
- C-5 FINAL CONDITIONS SECTIONS AND DETAILS (2 OF 3)
- C-6 FINAL CONDITIONS SECTIONS AND DETAILS (3 OF 3)
- C-7 FINAL CONDITIONS DOWNSTREAM ELEVATION SECTION
- C-8 FINAL CONDITIONS UPSTREAM ELEVATION SECTION
- C-9 LEFT ABUTMENT TRAINING WALL SECTIONS, AND ACB DETAILS
- C-10 RIGHT ABUTMENT TRAINING WALL SECTIONS AND DETAILS

2	ISSUED FOR BIDDING	CBN	6/22/18
1	RE-ISSUED FOR PERMITS	CBN	2/12/18
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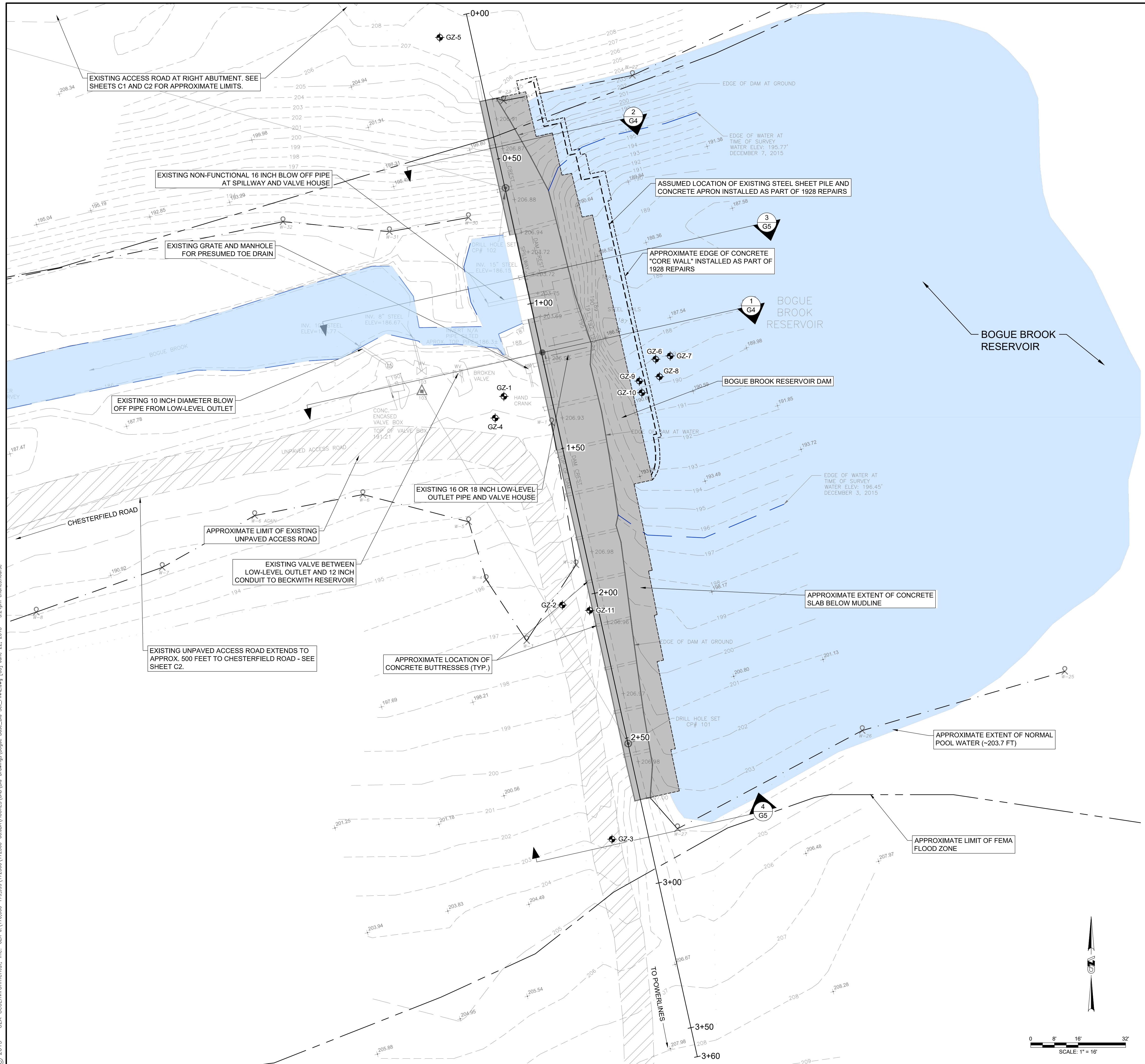
BOGUE BROOK RESERVOIR DAM  
REHABILITATION PROJECT  
MONTVILLE, CONNECTICUT

TITLE SHEET, SITE LOCUS, AND INDEX OF DRAWINGS

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: THE CITY OF NEW LONDON 
PROJ MGR: JDA DESIGNED BY: CBN DATE: 5/22/2017	REVIEWED BY: JDA DRAWN BY: CBN/SMH PROJECT NO: 01.0172560.0
CHECKED BY: PHB SCALE: AS NOTED REVISION NO:	SHEET <b>G1</b> SHEET NO.







**LEGEND**

- 194 --- EXISTING MINOR CONTOUR
- 195 --- EXISTING MAJOR CONTOUR
- GZ-26 --- APPROXIMATE LIMITS OF WETLAND RESOURCE
- --- APPROXIMATE LIMIT OF WATER AT TIME OF SURVEY (DECEMBER 3 AND DECEMBER 7, 2015)
- +206.98 EXISTING SPOT ELEVATION
- APPROXIMATE LIMIT NORMAL POOL WATER
- APPROXIMATE LIMIT OF AMBURSEN DAM
- GZ-4 APPROXIMATE LOCATION OF BORINGS PERFORMED BY GEOLOGIC EARTH EXPLORATIONS, INC. BETWEEN JANUARY 11, 2016 AND JANUARY 19, 2016, AND OBSERVED BY GZA GEOENVIRONMENTAL, INC.
- --- APPROXIMATE FEMA FLOOD ZONE LIMIT

- NOTES:**
- ELEVATIONS, IN FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (HEREAFTER REFERRED TO AS NAVD88).
  - BASE MAP DEVELOPED FROM CADD FILES PROVIDED BY GM2 ASSOCIATES OF GLASTONBURY, CONNECTICUT, ENTITLED "EXISTING CONDITIONS TOPOGRAPHIC WORKSHEET OF THE BOGUE BROOK RESERVOIR AND DAM," DATED DECEMBER 8, 2015.
  - ELEVEN BORINGS WERE PERFORMED BY GEOLOGIC EARTH EXPLORATIONS, INC. AND OBSERVED BY GZA GEOENVIRONMENTAL, INC. BETWEEN JANUARY 11, 2016 AND JANUARY 19, 2016. BORINGS GZ-1 TO GZ-5 AND GZ-11 WERE DRILLED DOWNSTREAM OF THE DAM. BORINGS GZ-6 TO GZ-10 WERE DRILLED FROM A BARGE UPSTREAM OF THE DAM.
  - REFER TO THE JULY 14, 2017 CTDEEP PERMIT APPLICATION, PARTICULARLY ATTACHMENT Q GEOTECHNICAL EVALUATIONS. THE CONTRACTOR SHOULD MAKE HIS/HER OWN EXPERT EVALUATION OF SUBSURFACE CONDITIONS AND CONDUCT ADDITIONAL EXPLORATIONS AS NECESSARY.

**BASILINE GEOMETRY TABLE**

STATION	NORTHING	EASTING
0+00	1148035.1121	720562.8063
0+50	1148045.9249	720503.9915
1+00	1148056.7377	720465.1746
1+50	1148067.5505	720406.3578
2+00	1148078.3634	720357.5410
2+50	1148089.1762	720308.7241
3+00	1148099.9890	720259.9073
3+50	1148110.8018	720211.0905
3+60	1148112.9644	720201.3271

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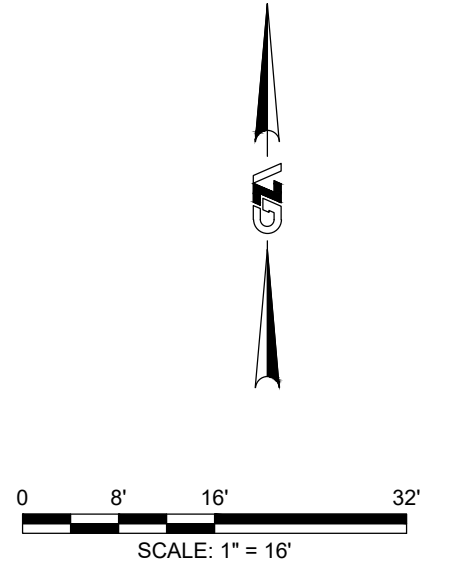
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**BOGUE BROOK RESERVOIR DAM  
REHABILITATION PROJECT  
MONTVILLE, CONNECTICUT**

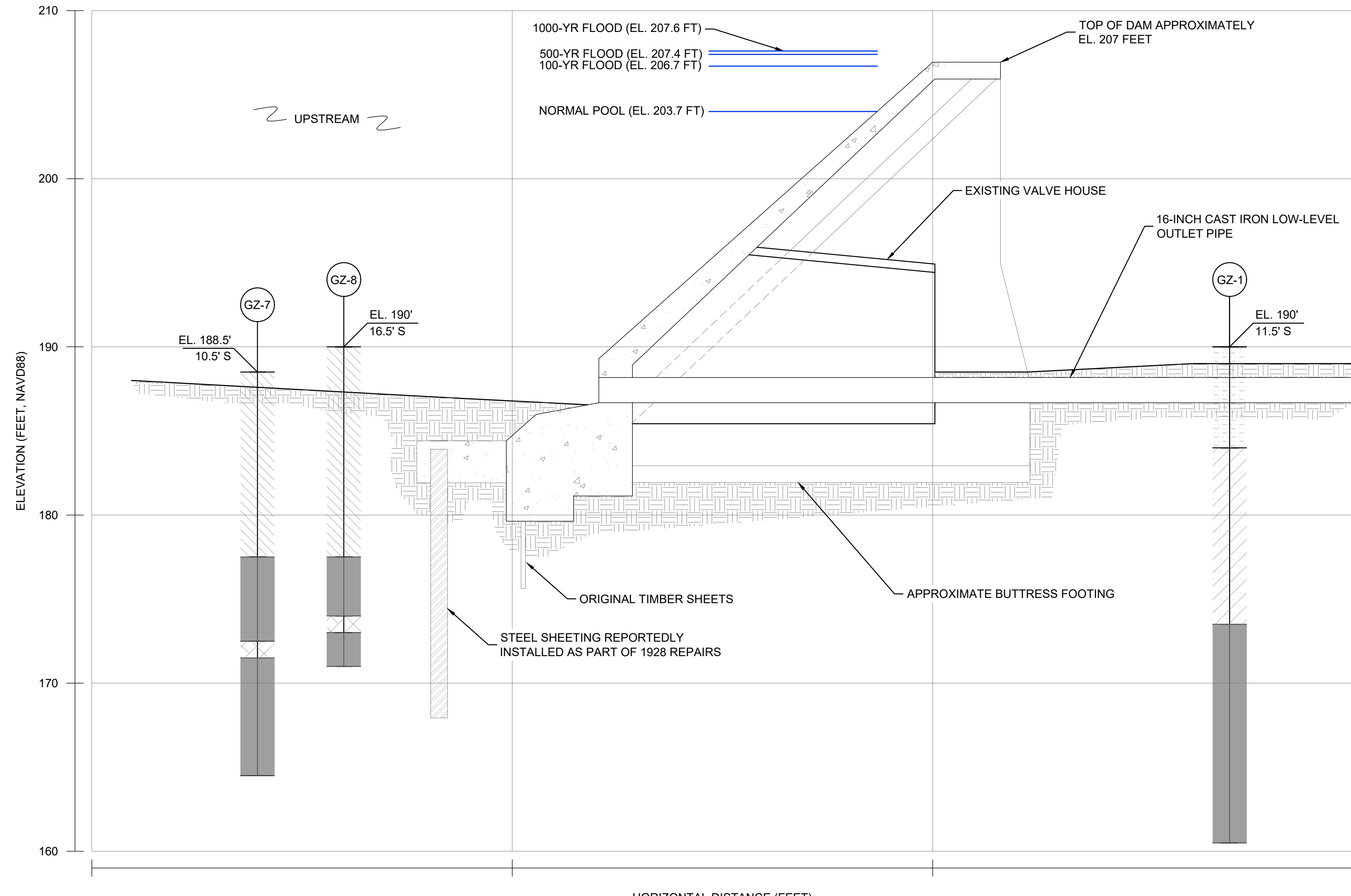
**EXISTING CONDITIONS PLAN**

PREPARED BY: <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: <b>THE CITY OF NEW LONDON</b> Connecticut
PROJ MGR: JDA DESIGNED BY: CBN DATE: 5/22/2017	REVIEWED BY: JDA DRAWN BY: CBN/SMH PROJECT NO: 01.0172560.0
CHECKED BY: PHB SCALE: AS NOTED REVISION NO:	SHEET <b>G3</b>

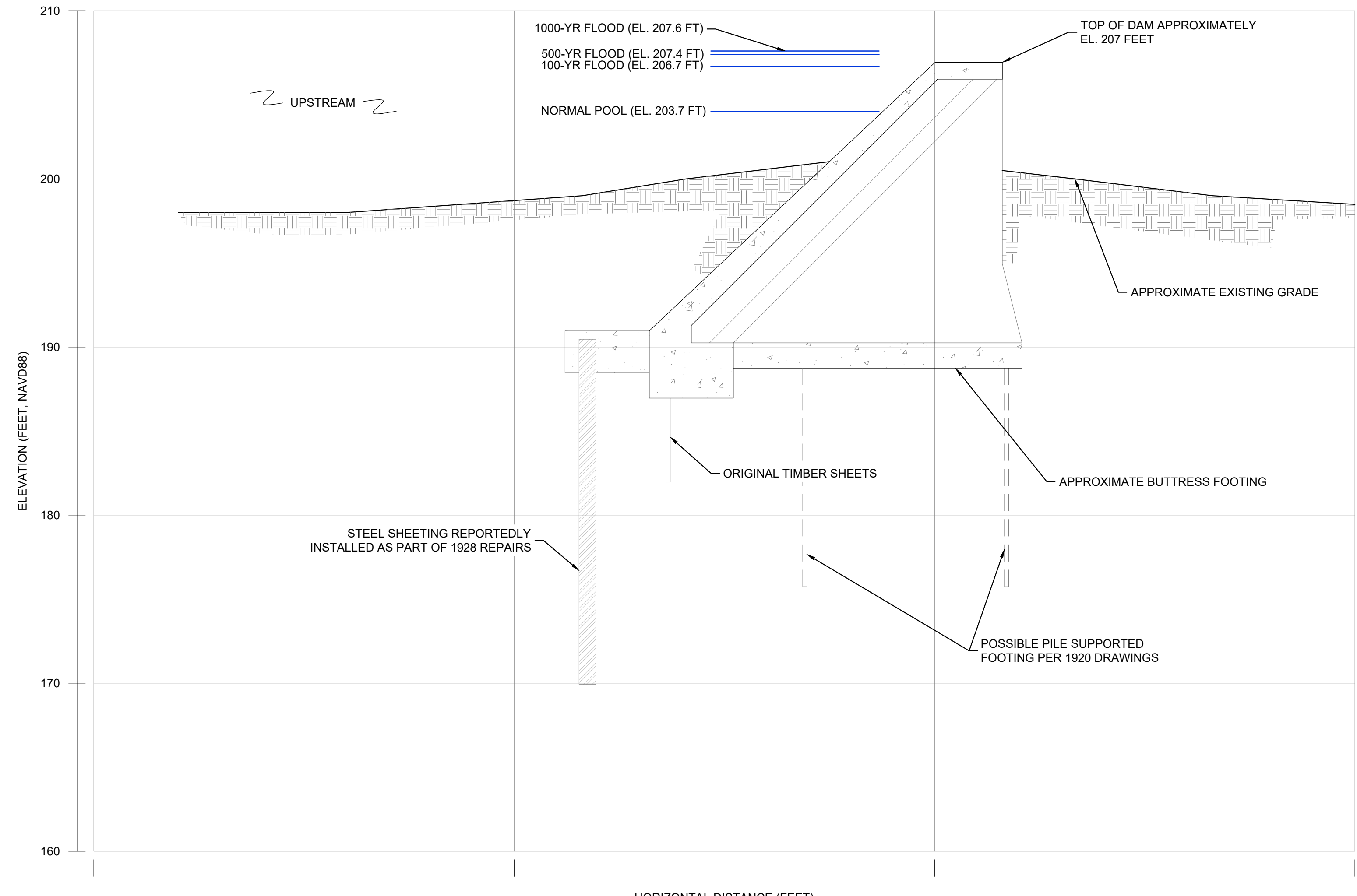
06/22/2018



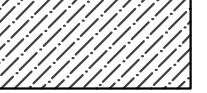
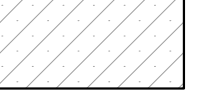


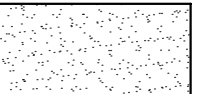


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1 EXISTING CONDITIONS SECTION  
G3  
SCALE: 1" = 5'



2 EXISTING CONDITIONS SECTION  
G3  
SCALE: 1" = 5'

	TOPSOIL / ORGANICS		GLACIAL TILL
	FILL		WEATHERED BEDROCK
	SAND AND SILT		BEDROCK
	SILTY SAND		

- NOTES:
- EXISTING FEATURES SHOWN IN ELEVATION AND SECTION VIEWS DEVELOPED FROM HISTORIC PLANS FOR BOGUE BROOK RESERVOIR DAM. PLAN SET USED IN DEVELOPMENT OF THESE DRAWINGS INCLUDE PLANS ENTITLED "PLAN SHOWING REPAIRS ON BOGUE BROOK DAM", DATED OCTOBER 1921, BY GEO. E. WATTERS; "PLAN AND DETAILS OF BOGUE BROOK DAM CONSTRUCTED AT MONTVILLE, CONNECTICUT IN 1920", BY W.H. RICHARDS; AND "PLAN OF REPAIRS ON BOGUE BROOK DAM", DATED FEBRUARY, 1928.
  - PRESENCE AND LOCATION OF BELOW GRADE FEATURES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY GZA GEOENVIRONMENTAL, INC. AND SHOULD BE CONSIDERED APPROXIMATE OF ACTUAL SITE FEATURES AND LOCATIONS.
  - REFER TO SHEET G3, NOTE 3.

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**BOGUE BROOK RESERVOIR DAM  
REHABILITATION PROJECT  
MONTVILLE, CONNECTICUT**

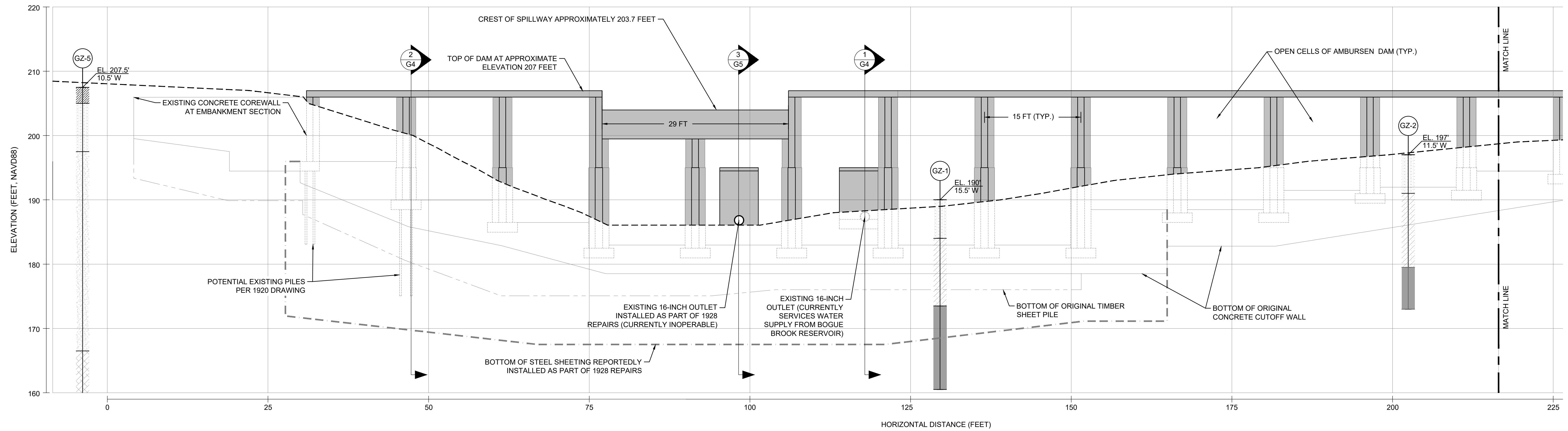
**EXISTING CONDITIONS SECTIONS (1 OF 2)**



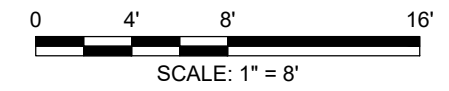
PREPARED BY: <b>GZA GeoEnvironmental, Inc.</b> Engineers and Scientists www.gza.com		PREPARED FOR: <b>THE CITY OF NEW LONDON</b>	
PROJ MGR: JDA	DESIGNED BY: CBN	REVIEWED BY: JDA	CHECKED BY: PHB
DATE: 5/22/2017	DRAWN BY: CBN/SMH	SCALE: AS NOTED	REVISION NO.
	PROJECT NO: 01.0172560.0		

**G4**





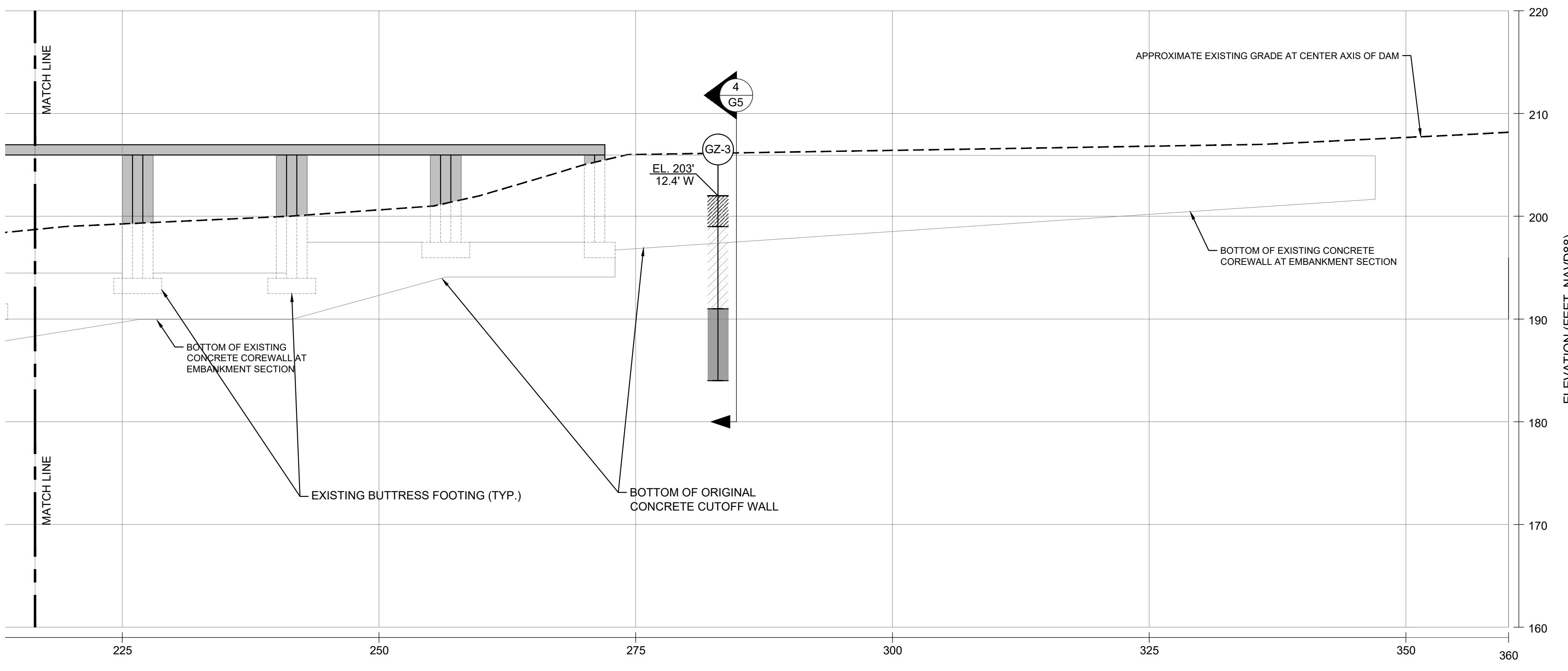
EXISTING CONDITIONS ELEVATION SECTION (LOOKING UPSTREAM)



LEGEND

	TOPSOIL / ORGANICS		GLACIAL TILL
	FILL		WEATHERED BEDROCK
	SAND AND SILT		BEDROCK
	SILTY SAND		

- NOTES:
- REFER TO SHEET G3, NOTE 3.
  - REFER TO SHEET G4, NOTES 1 AND 2.



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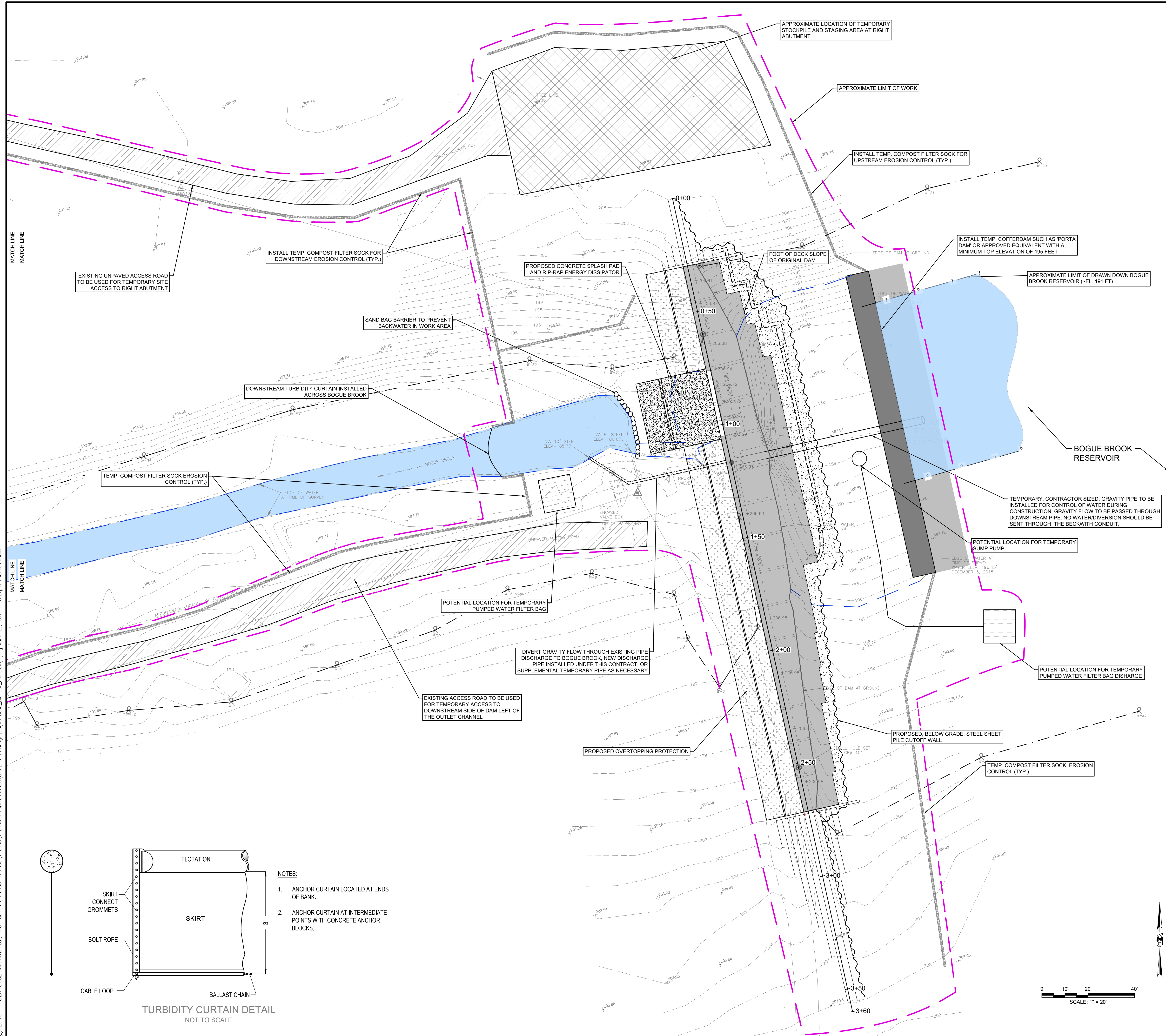
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**BOGUE BROOK RESERVOIR DAM  
REHABILITATION PROJECT  
MONTVILLE, CONNECTICUT**

**EXISTING CONDITIONS DOWNSTREAM ELEVATION SECTION**

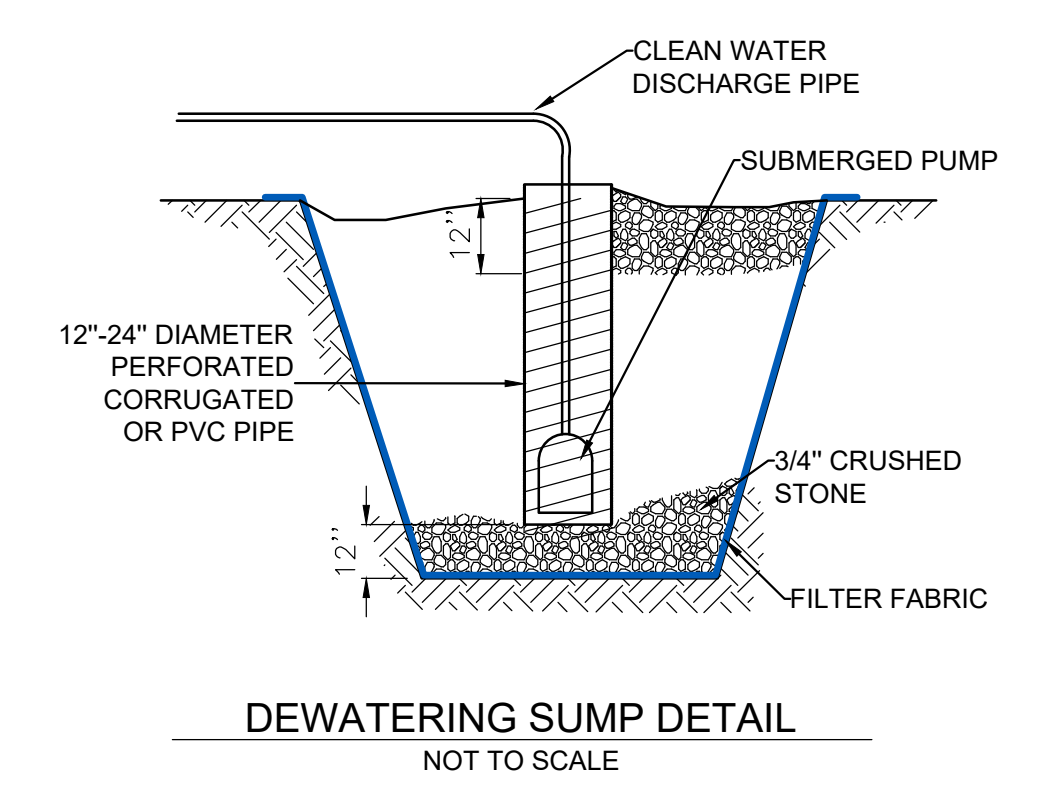
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PROJ MGR: JDA DESIGNED BY: CBN DATE: 5/22/2017	REVIEWED BY: JDA DRAWN BY: CBN/SMH PROJECT NO: 01.0172560.0
CHECKED BY: PHB SCALE: AS NOTED REVISION NO:	<b>SHEET G6</b>

James J. Walsh  
06/22/2018



**LEGEND**

	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	APPROXIMATE LIMITS OF WETLAND RESOURCE
	APPROXIMATE LIMIT OF WATER AT TIME OF SURVEY (DECEMBER 3 AND DECEMBER 7, 2015)
	EXISTING SPOT ELEVATION
	APPROXIMATE LIMIT OF WORK
	TEMPORARY COMPOST FILTER SOCK (TYP.)
	APPROXIMATE LIMIT OF STOCKPILE AND STAGING AREA
	APPROXIMATE LIMIT OF IMPROVED TEMPORARY CONSTRUCTION ACCESS ROAD



- NOTES:**
1. THE CONTRACTOR SHALL PROVIDE TWO COMPLETE, SEPARATE, CONTINUOUS, REDUNDANT, DISCHARGE SYSTEMS FOR SURFACE WATER CONTROL. REFER TO WATER CONTROL NOTES ON SHEET G-2.
  2. MAJOR COMPONENTS OF THE PROPOSED WORK ARE SHOWN IN THIS PLAN VIEW FOR REFERENCE ONLY. REFER TO SHEET C3 FOR THE FINAL CONDITIONS PLAN VIEW.

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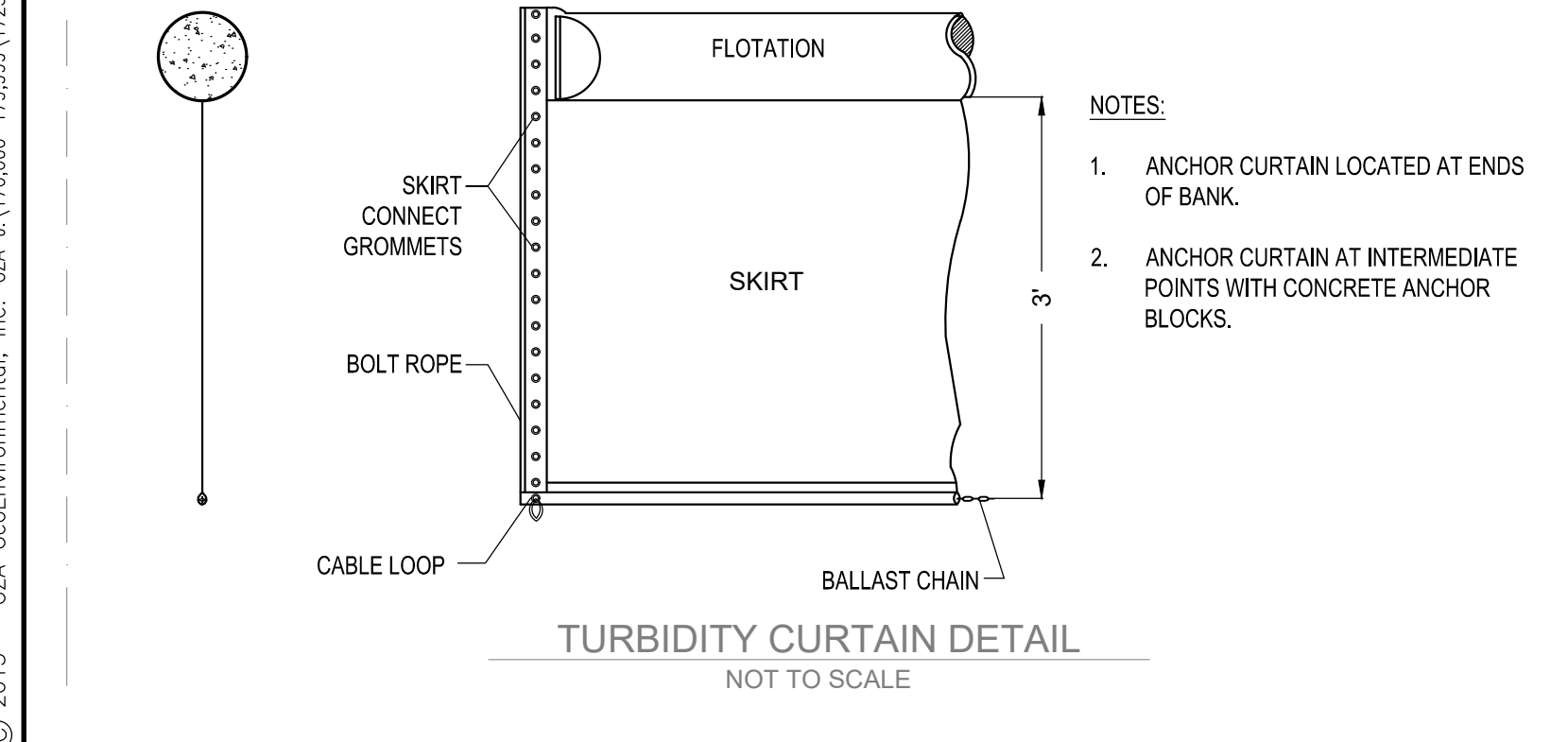
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**BOGUE BROOK RESERVOIR DAM REHABILITATION PROJECT**  
MONTVILLE, CONNECTICUT

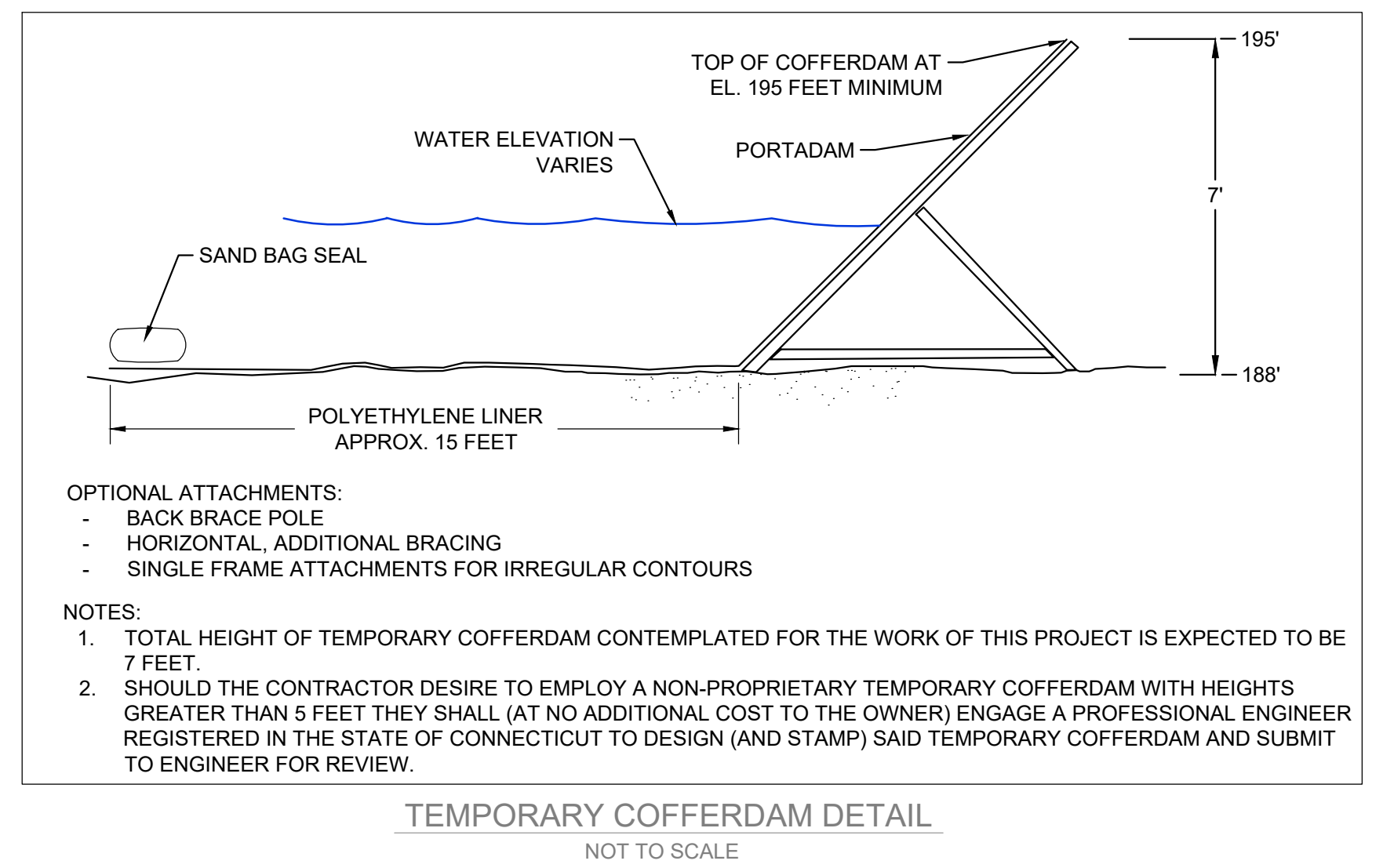
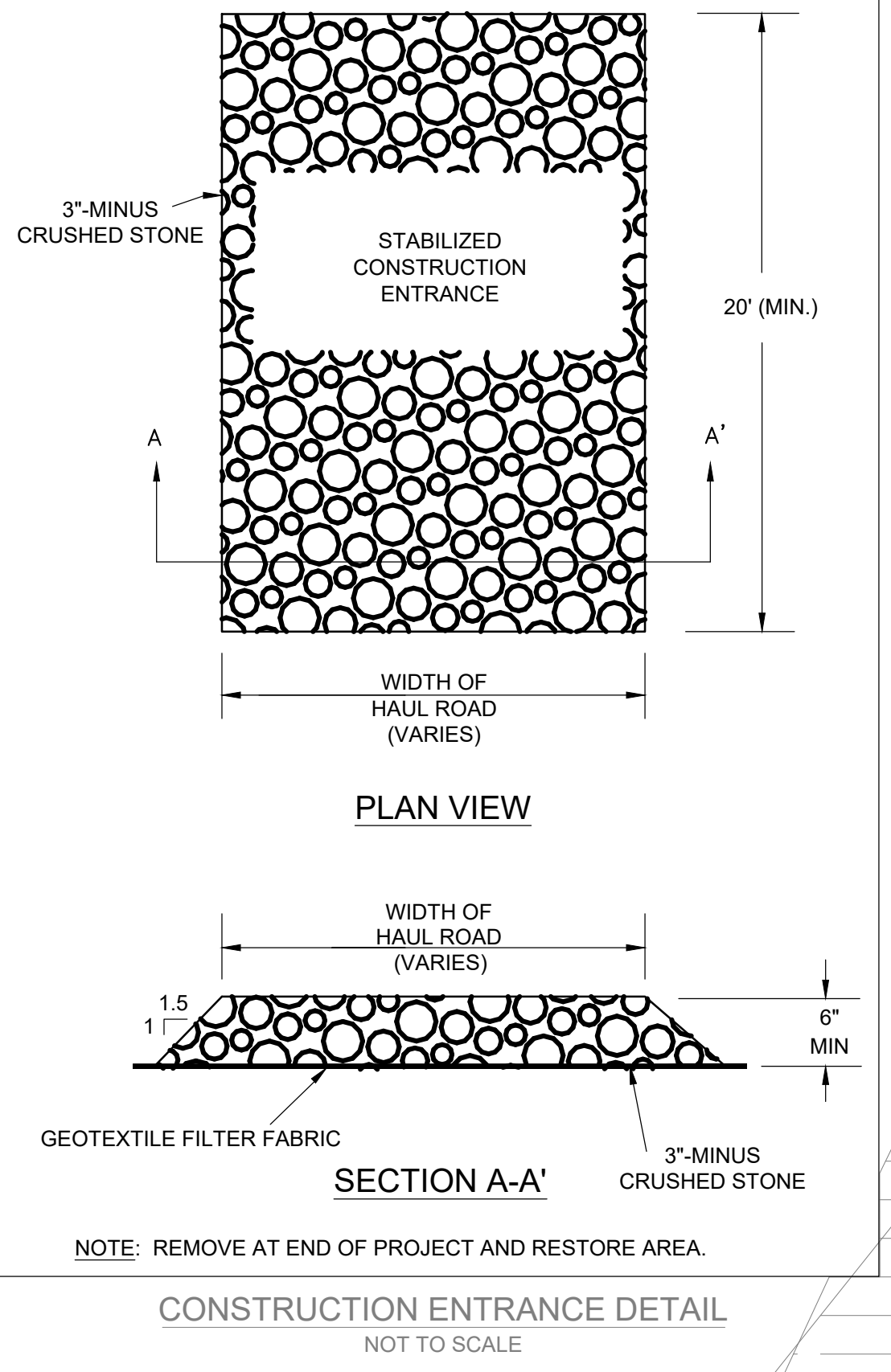
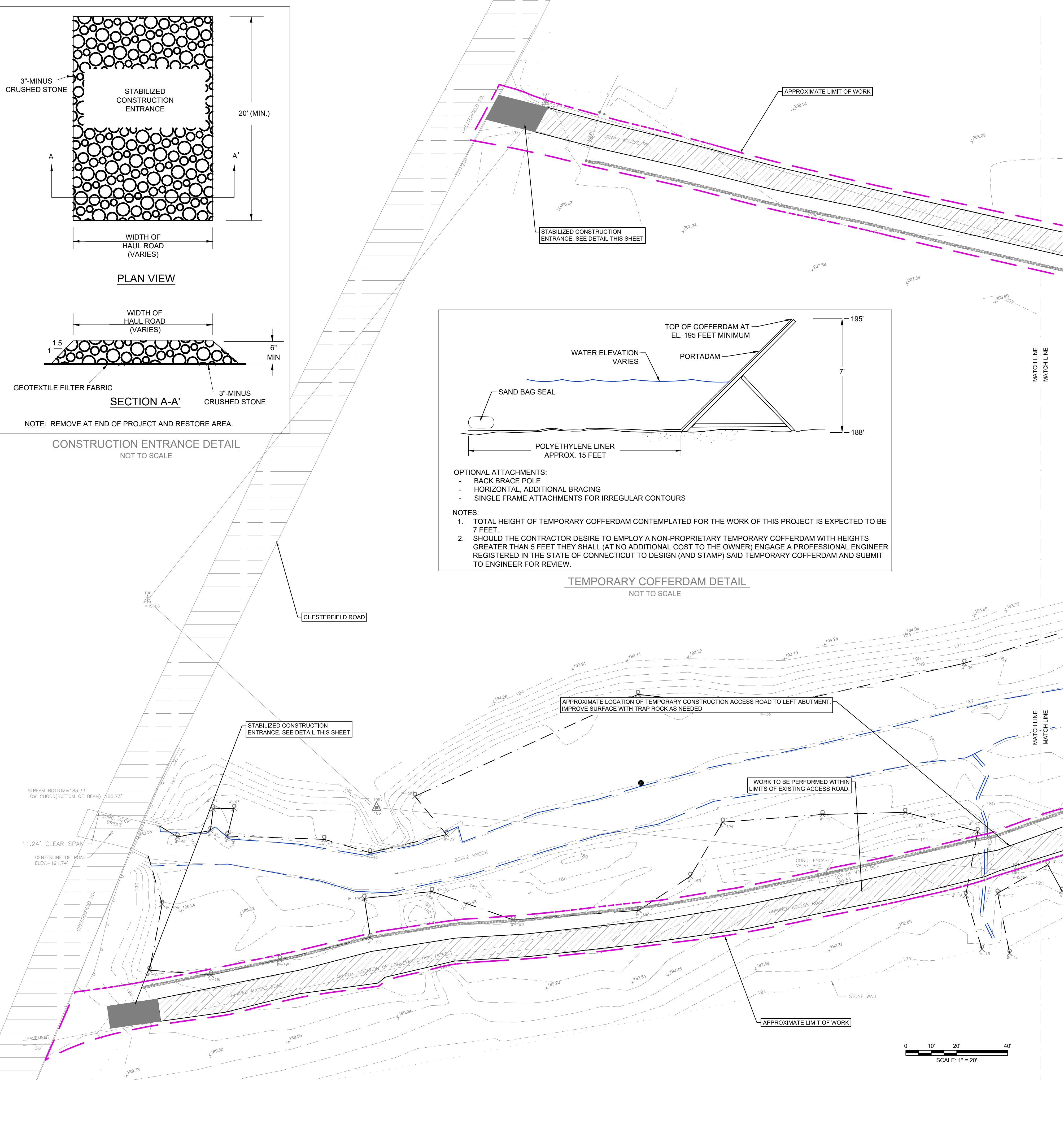
**SEDIMENTATION AND EROSION CONTROL, WATER CONTROL, SITE ACCESS, STAGING, AND STOCKPILE PLAN**

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: THE CITY OF NEW LONDON 
PROJ MGR: JDA DESIGNED BY: CBN DATE: 5/22/2017	REVIEWED BY: JDA DRAWN BY: CBN/SMH PROJECT NO: 01.0172560.0
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06/22/2018

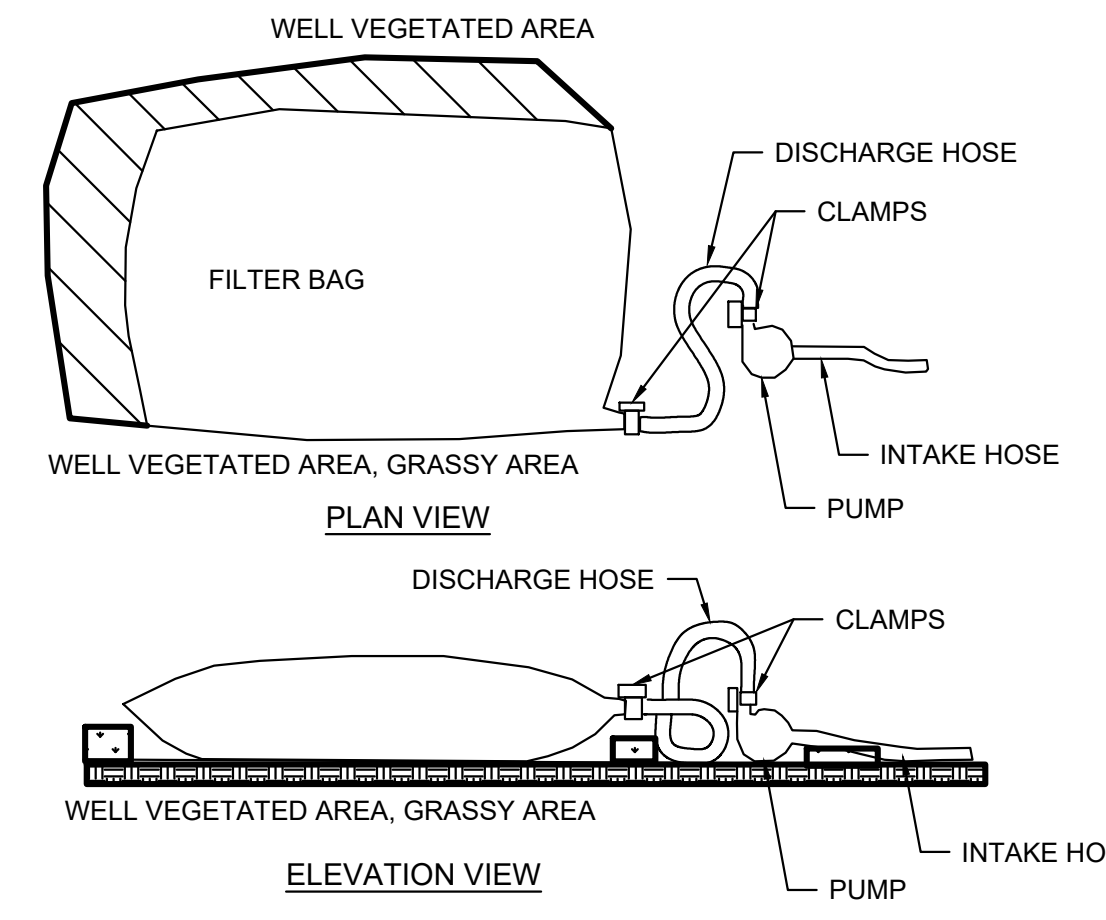
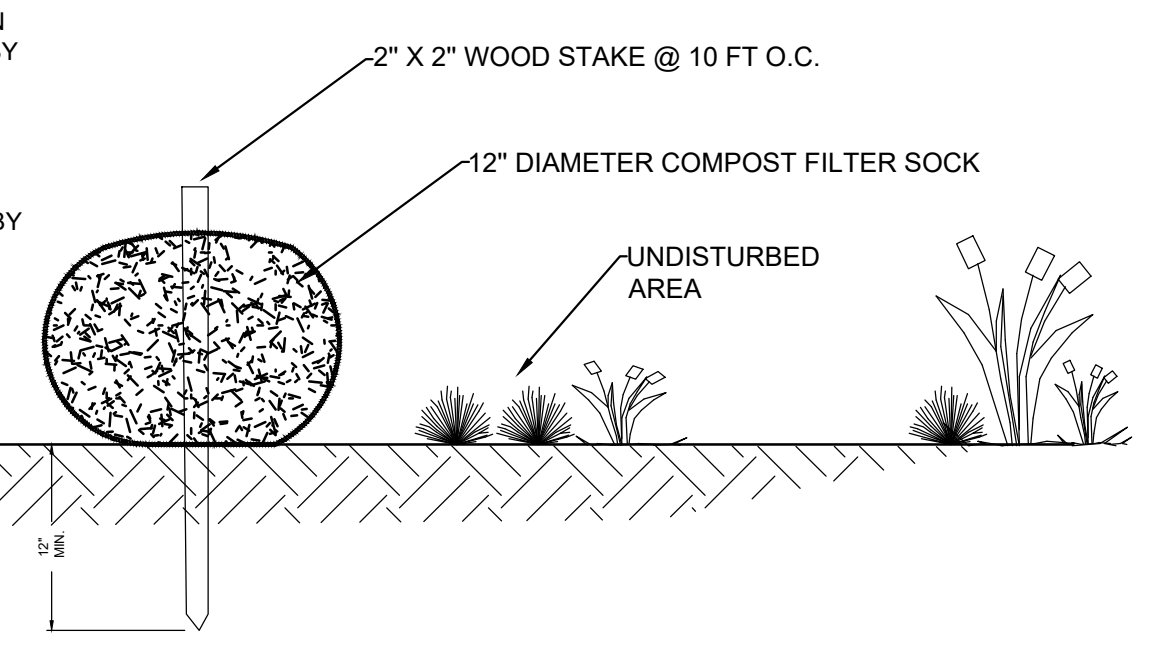


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**NOTES:**

1. FILTER SOCK SHALL BE MADE OF 100% ORGANIC HESSIAN FABRIC (BURLAP) OR BIO-DEGRADABLE 5 MIL HDPE (NO LONGER THAN 6 MONTHS). REPLACEMENT NEEDED AFTER 6 MONTHS.
  2. ORGANIC MATTER CONTENT SHALL BE BETWEEN 20-100% (DRY WEIGHT BASIS) AS DETERMINED BY ASTM D2974 (METHOD A) STANDARD TEST METHODS FOR MOISTURE, ASH, AND ORGANIC MATTER OF PEAT AND OTHER ORGANIC SOILS.
  3. MOISTURE CONTENT SHALL BE <150% BY DRY WEIGHT (<60% BY WET WEIGHT) AS MEASURED BY ASTM D2216 STANDARD TEST METHOD FOR LABORATORY DETERMINATION OF WATER CONTENT OF SOIL AND ROCK AND ASTM D2974 (CITED ABOVE).
  4. PARTICLE SIZE IS MEASURED BY SIEVING SHALL BE AS FOLLOWS:
- | SIEVE SIZE | % PASSING |
|------------|-----------|
| 75MM       | 100%      |
| 19MM       | 70-100%   |
| #4         | 30-75%    |
| #20        | 20-40%    |
- NO PARTICLE MAY BE LONGER THAN 150MM
5. SOLUBLE SALTS SHALL BE <5.0 MMHOS/CM (DS/M).
  6. THE PH SHALL BE BETWEEN 5.5 AND 8.0.
  7. FILTER SOCKS MUST BE PLACED PARALLEL TO CONTOUR WITH BOTH ENDS OF THE SOCK EXTENDED UPSLOPE AT A 45 DEGREE ANGLE TO THE REST OF THE SOCK TO PREVENT END-AROUNDS.
  8. THE CONTRACTOR SHALL MAINTAIN THE FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES, INCLUDING INSPECTIONS AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
  9. FOR REMOVAL, THE CONTRACTOR SHALL RAKE OUT SO THAT FILTER MATERIAL IS NO GREATER THAN 3" IN DEPTH ON SOIL SUBSTRATE.



**PUMPED WATER FILTER BAG NOTES:**

1. CONTRACTOR SHALL LOCATE FILTER BAG TO COMPLY WITH REQUIREMENTS BELOW. LOCATION IS SUBJECT TO APPROVAL BY THE ENGINEER.
2. FILTER BAGS SHALL BE USED TO FILTER WATER PUMPED FROM DISTURBED AREAS PRIOR TO DISCHARGING.
3. FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. CONTRACTOR SHALL PROVIDE A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY (FOR DISPOSAL PURPOSES).
4. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL.
5. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
6. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW PATH SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%.
7. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.
8. THE PUMPING RATE SHALL BE NO GREATER THAN 100 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.
9. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

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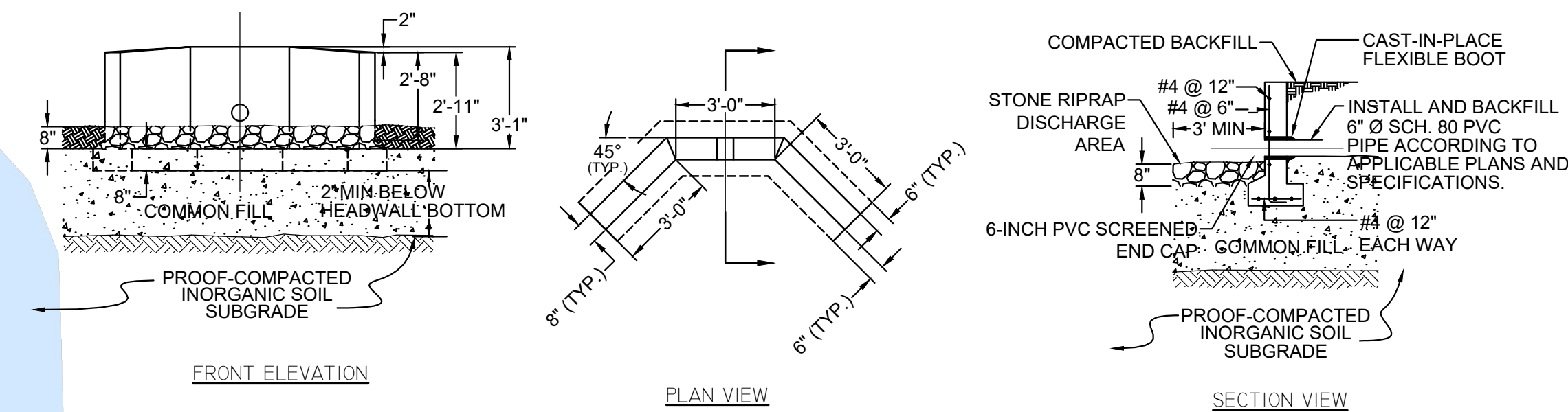
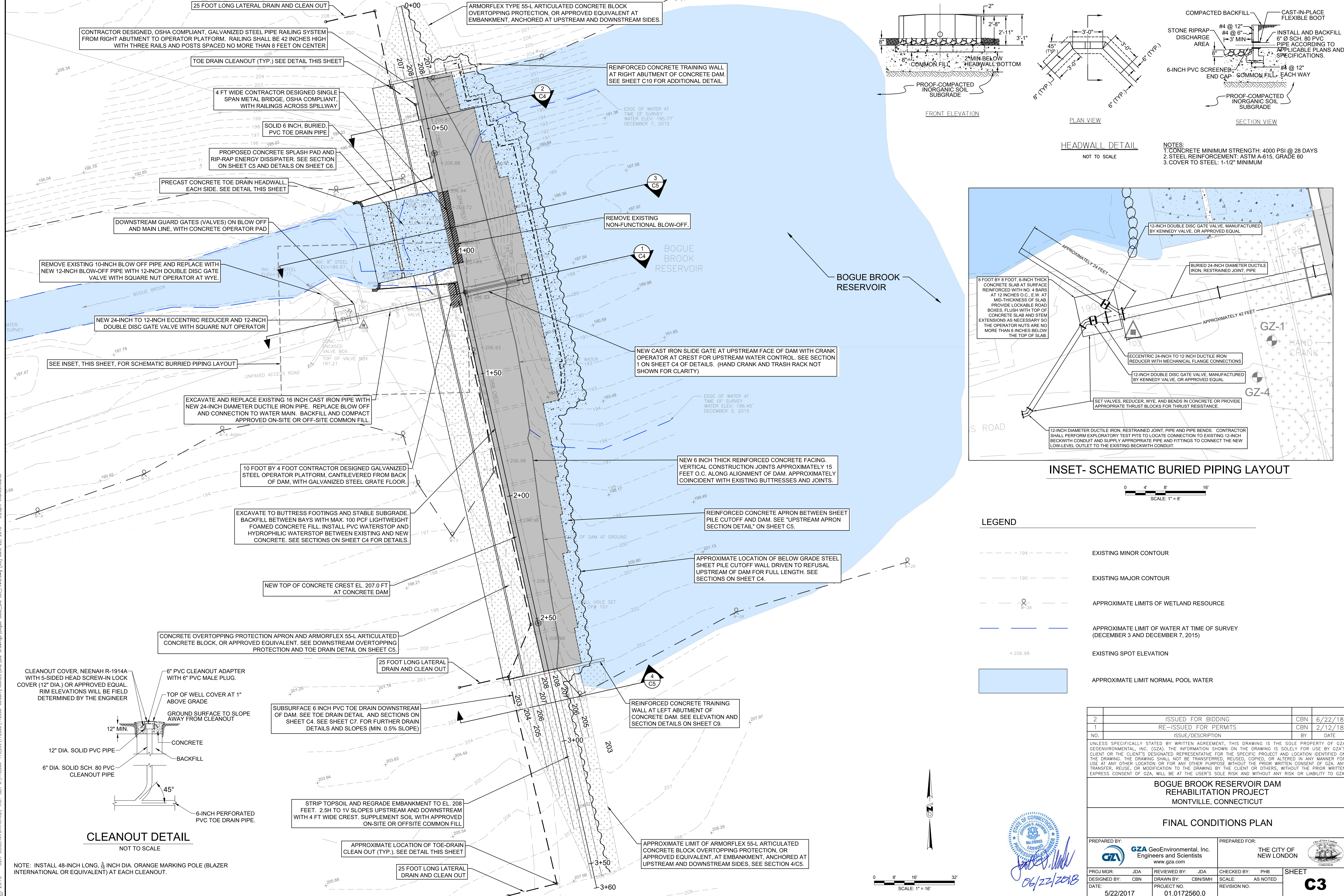
**BOGUE BROOK RESERVOIR DAM  
REHABILITATION PROJECT  
MONTVILLE, CONNECTICUT**

**DOWNSTREAM SEDIMENTATION AND EROSION  
CONTROL, WATER CONTROL, SITE ACCESS PLAN**

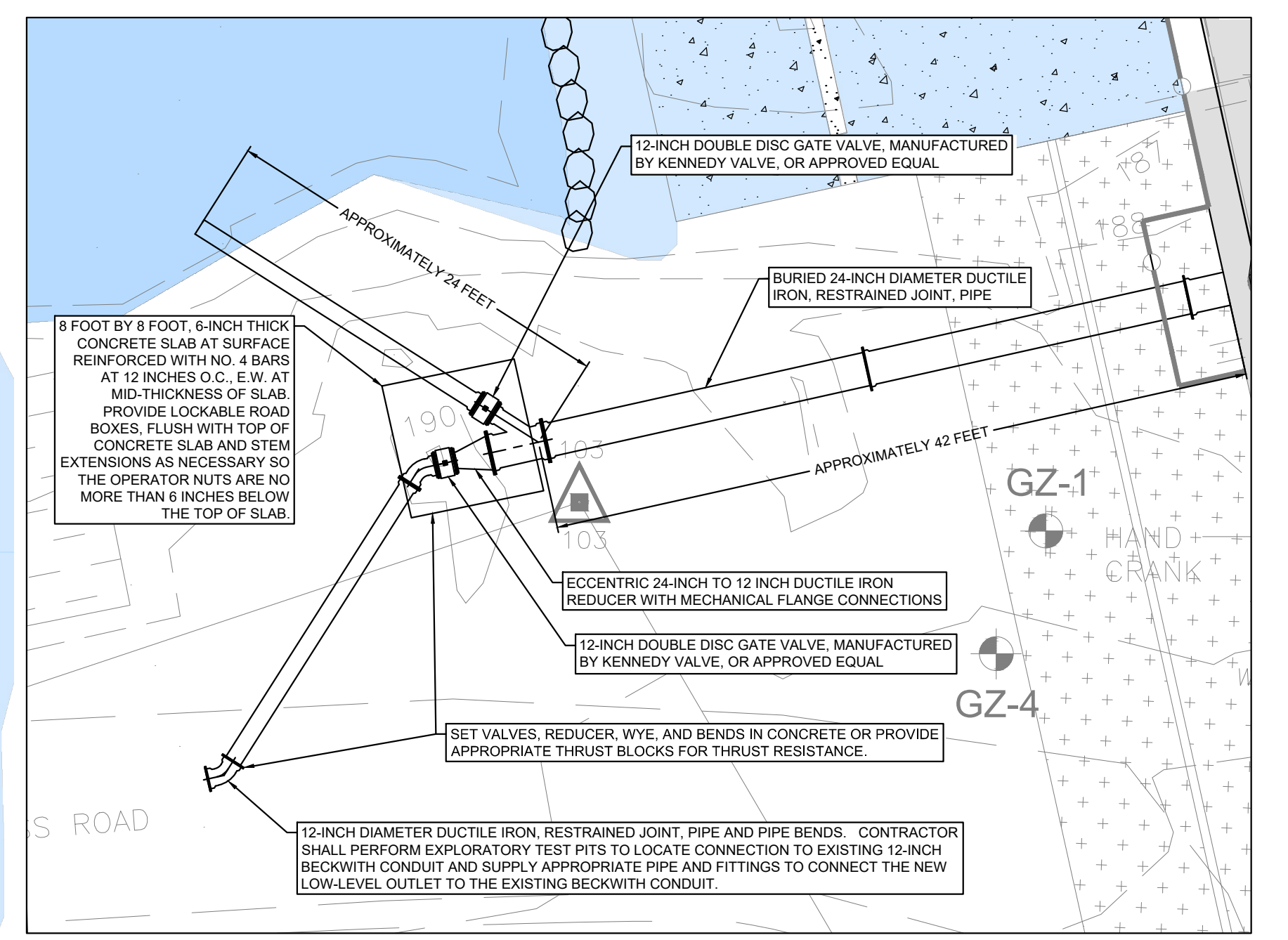
PREPARED BY: <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: THE CITY OF NEW LONDON
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REVIEWED BY: JDA	SCALE: AS NOTED
DRAWN BY: CBN/SMH	REVISION NO.
DATE: 5/22/2017	PROJECT NO: 01.0172560.0

**SHEET  
C2**





NOTES:  
 1. CONCRETE MINIMUM STRENGTH: 4000 PSI @ 28 DAYS  
 2. STEEL REINFORCEMENT: ASTM A-615, GRADE 60  
 3. COVER TO STEEL: 1-1/2" MINIMUM



INSET- SCHEMATIC BURIED PIPING LAYOUT



**LEGEND**

---	EXISTING MINOR CONTOUR
- - -	EXISTING MAJOR CONTOUR
⊖	APPROXIMATE LIMITS OF WETLAND RESOURCE
---	APPROXIMATE LIMIT OF WATER AT TIME OF SURVEY (DECEMBER 3 AND DECEMBER 7, 2015)
+	EXISTING SPOT ELEVATION
■	APPROXIMATE LIMIT NORMAL POOL WATER

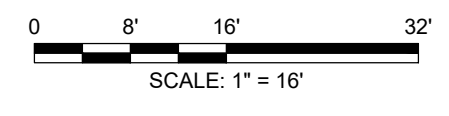
2	ISSUED FOR BIDDING	CBN	6/22/18
1	RE-ISSUED FOR PERMITS	CBN	2/12/18
NO.	ISSUE/DESCRIPTION	BY	DATE

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**BOGUE BROOK RESERVOIR DAM REHABILITATION PROJECT**  
 MONTVILLE, CONNECTICUT

**FINAL CONDITIONS PLAN**

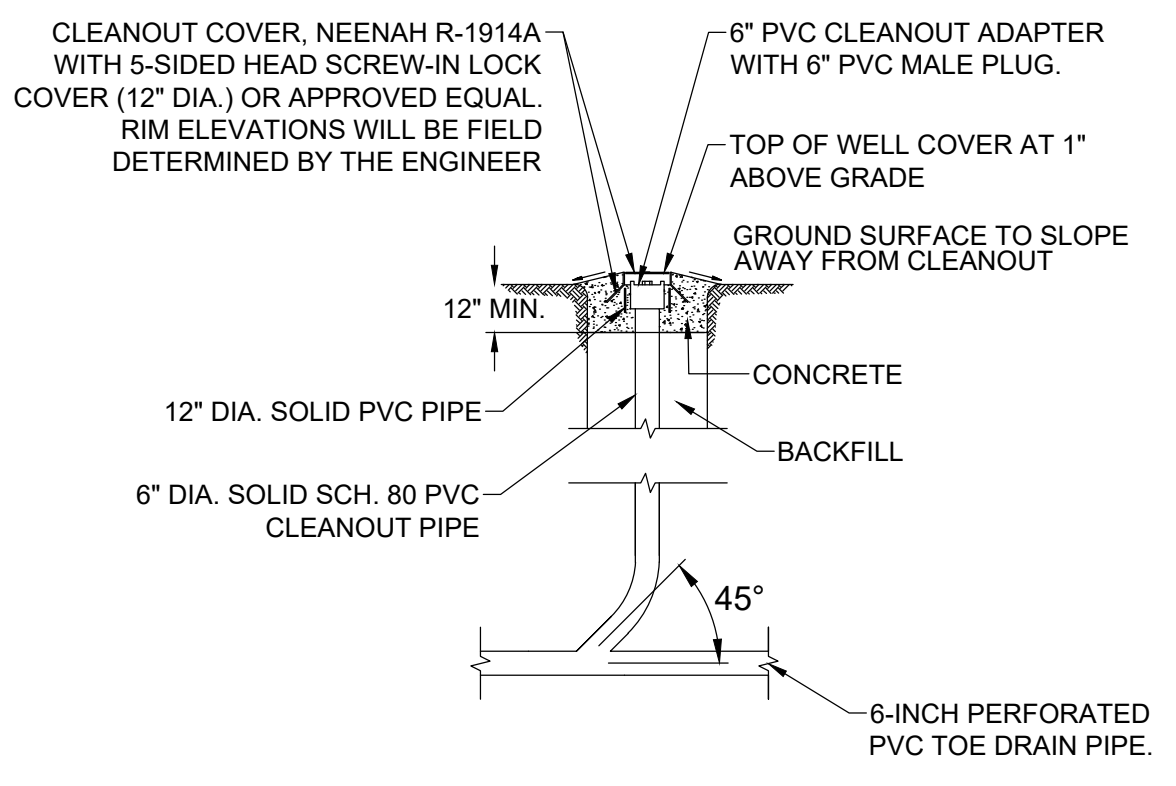
PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:	THE CITY OF NEW LONDON
PROJ MGR:	JDA	REVIEWED BY:	JDA
DESIGNED BY:	CBN	DRAWN BY:	CBN/SMH
DATE:	5/22/2017	PROJECT NO.:	01.0172560.0
		CHECKED BY:	PHB
		SCALE:	AS NOTED
		REVISION NO.:	



© 2013 - GZA GeoEnvironmental, Inc. GZA-170,000-179,999-172560-00.DA (FIGURES) CAD (Bld - Drawings) Bogue Base\_Bld\_Sk\_FINAL.dwg [C] June 22, 2018 - 5:29pm cbn:smh:source

**CLEANOUT DETAIL**

NOT TO SCALE



SUBSURFACE 6 INCH PVC TOE DRAIN DOWNSTREAM OF DAM. SEE TOE DRAIN DETAIL AND SECTIONS ON SHEET C4. SEE SHEET C7. FOR FURTHER DRAIN DETAILS AND SLOPES (MIN. 0.5% SLOPE)

STRIP TOPSOIL AND REGRADE EMBANKMENT TO EL. 208 FEET. 2.5H TO 1V SLOPES UPSTREAM AND DOWNSTREAM WITH 4 FT WIDE CREST. SUPPLEMENT SOIL WITH APPROVED ON-SITE OR OFFSITE COMMON FILL

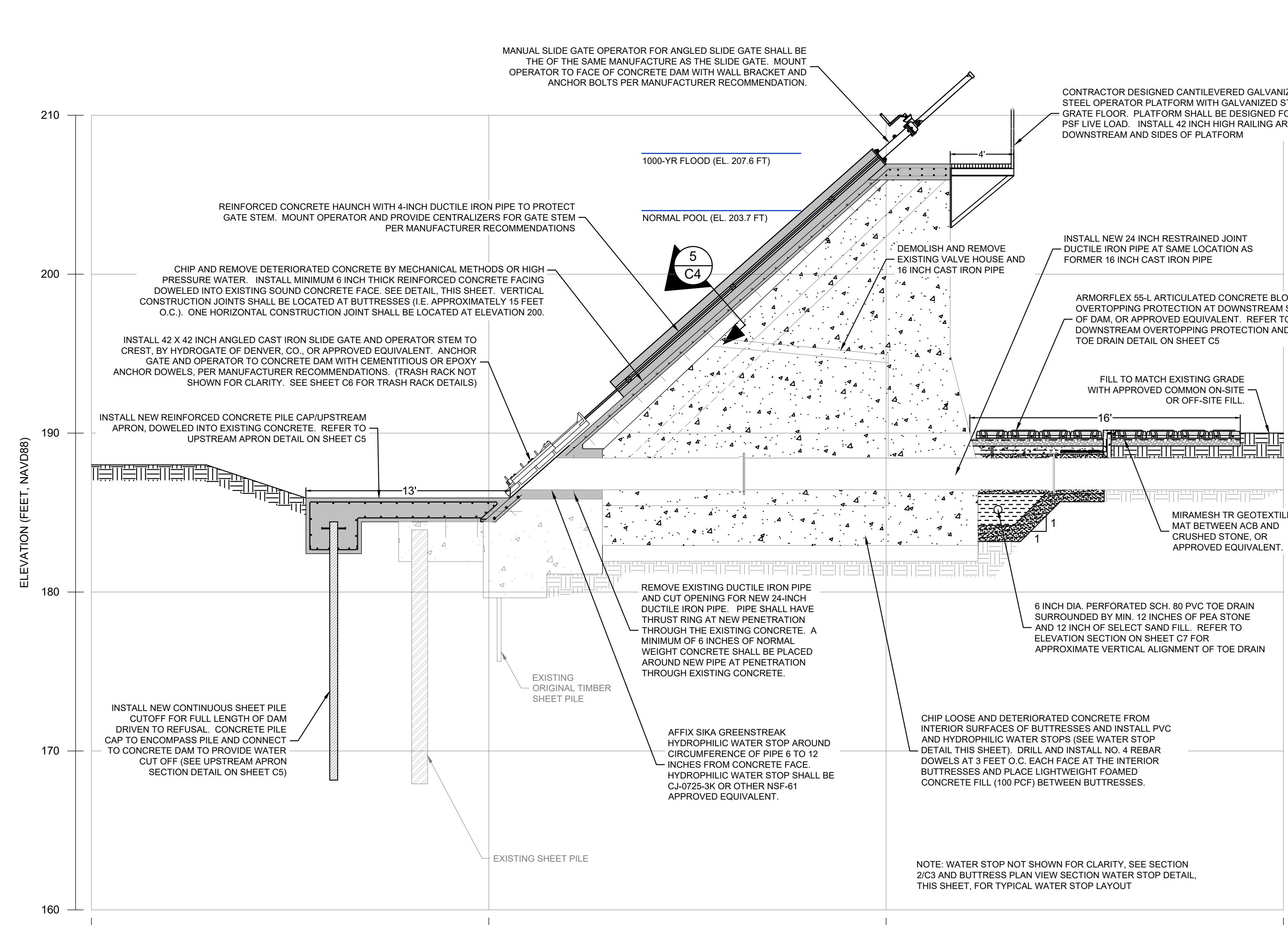
APPROXIMATE LOCATION OF TOE-DRAIN CLEAN OUT (TYP.). SEE DETAIL THIS SHEET

25 FOOT LONG LATERAL DRAIN AND CLEAN OUT

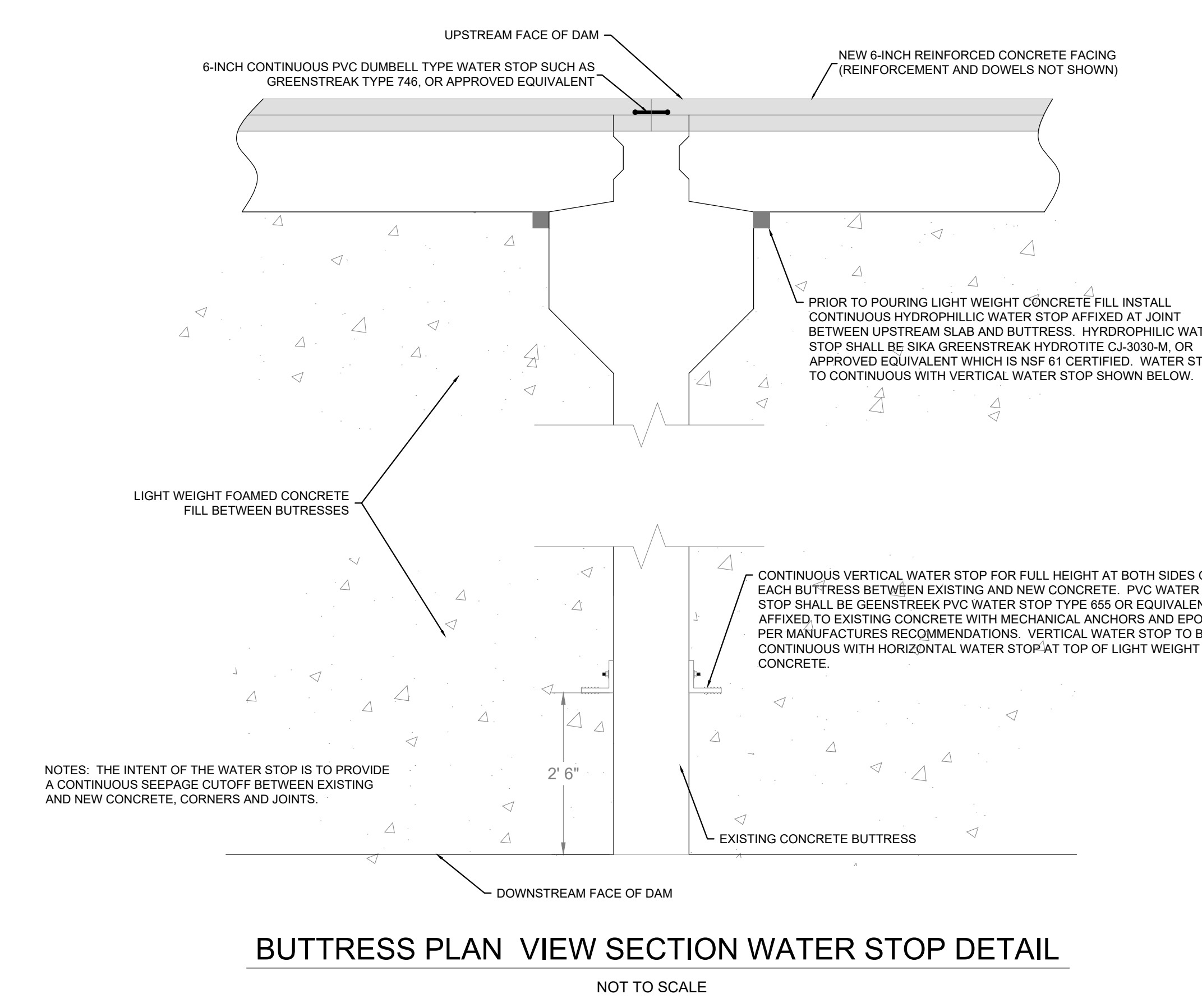
REINFORCED CONCRETE TRAINING WALL AT LEFT ABUTMENT OF CONCRETE DAM. SEE ELEVATION AND SECTION DETAILS ON SHEET C9.

APPROXIMATE LIMIT OF ARMORFLEX 55-L ARTICULATED CONCRETE BLOCK OVERTOPPING PROTECTION, AT UPSTREAM AND DOWNSTREAM SIDES. SEE SECTION 4/C5.

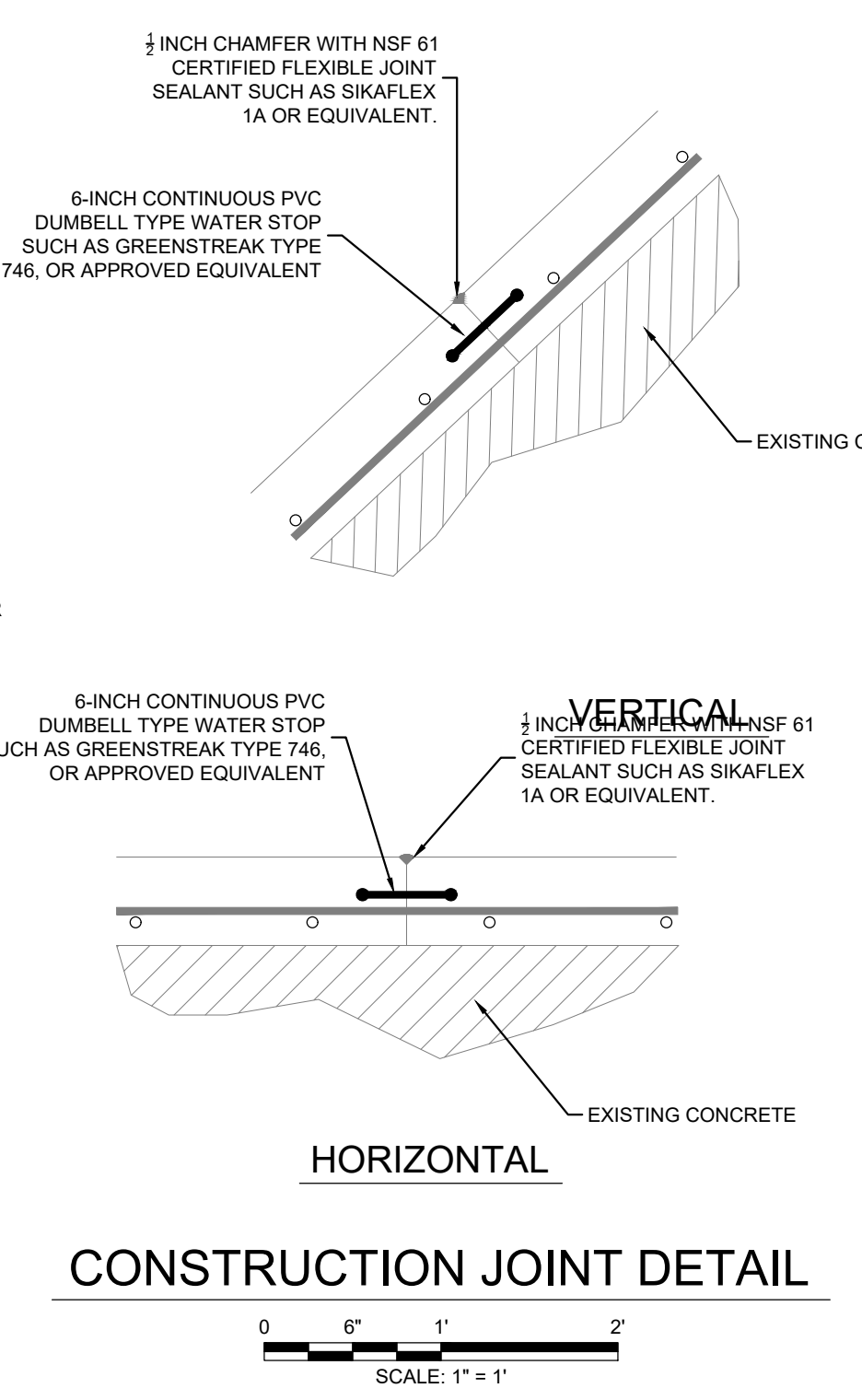
© 2013 - GZA GeoEnvironmental, Inc. GZA-170.000-179.999-172560-00.DA (FIGURES) CAD (04) Drawings (Bogue Base\_Bld\_Sk\_FINAL.dwg [C] June 22, 2018 - 5:30pm cbrioles.morse



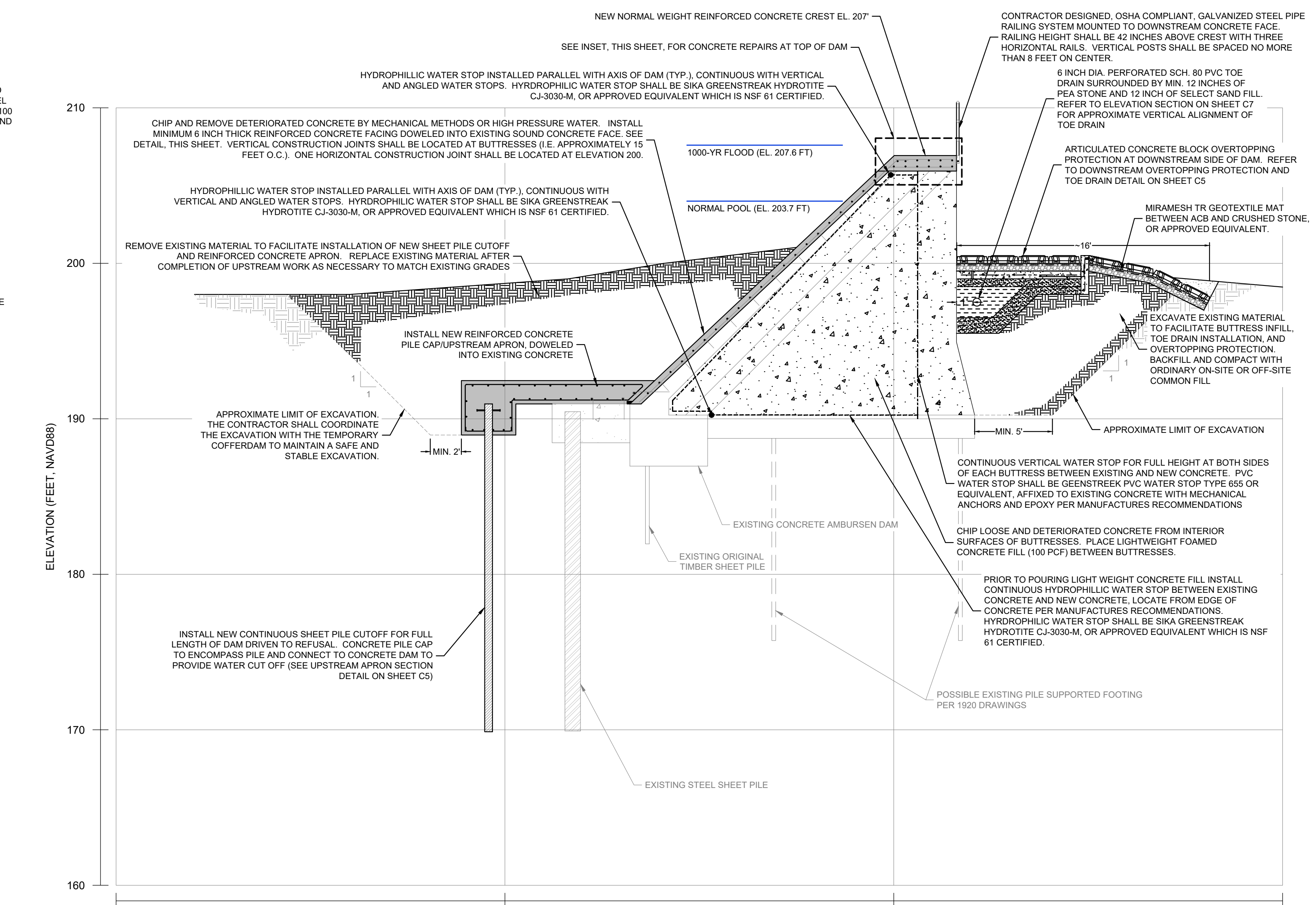
**1 FINAL CONDITIONS SECTION**  
C3



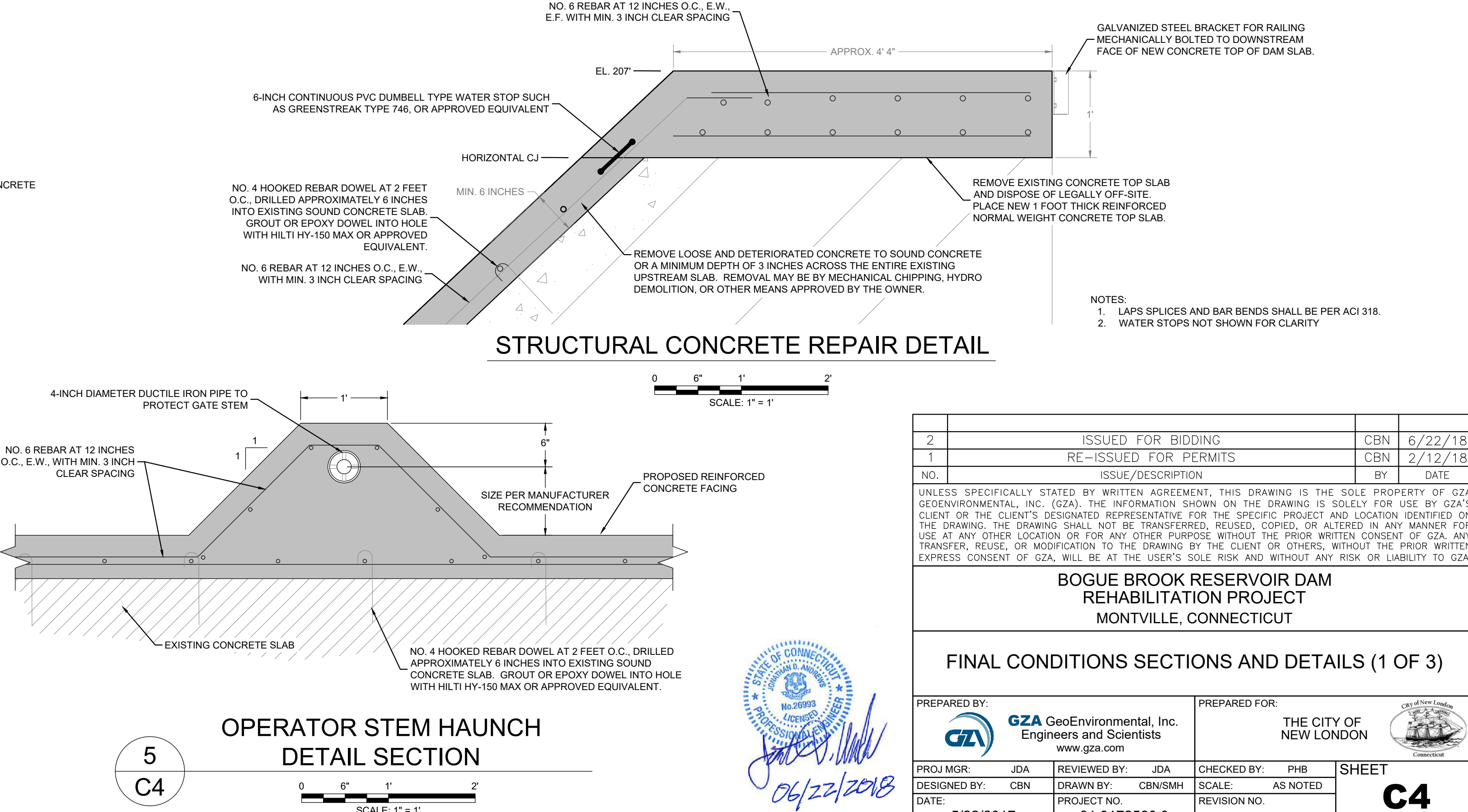
**BUTTRESS PLAN VIEW SECTION WATER STOP DETAIL**  
NOT TO SCALE



**CONSTRUCTION JOINT DETAIL**  
SCALE: 1\"/>



**2 FINAL CONDITIONS SECTION**  
C3



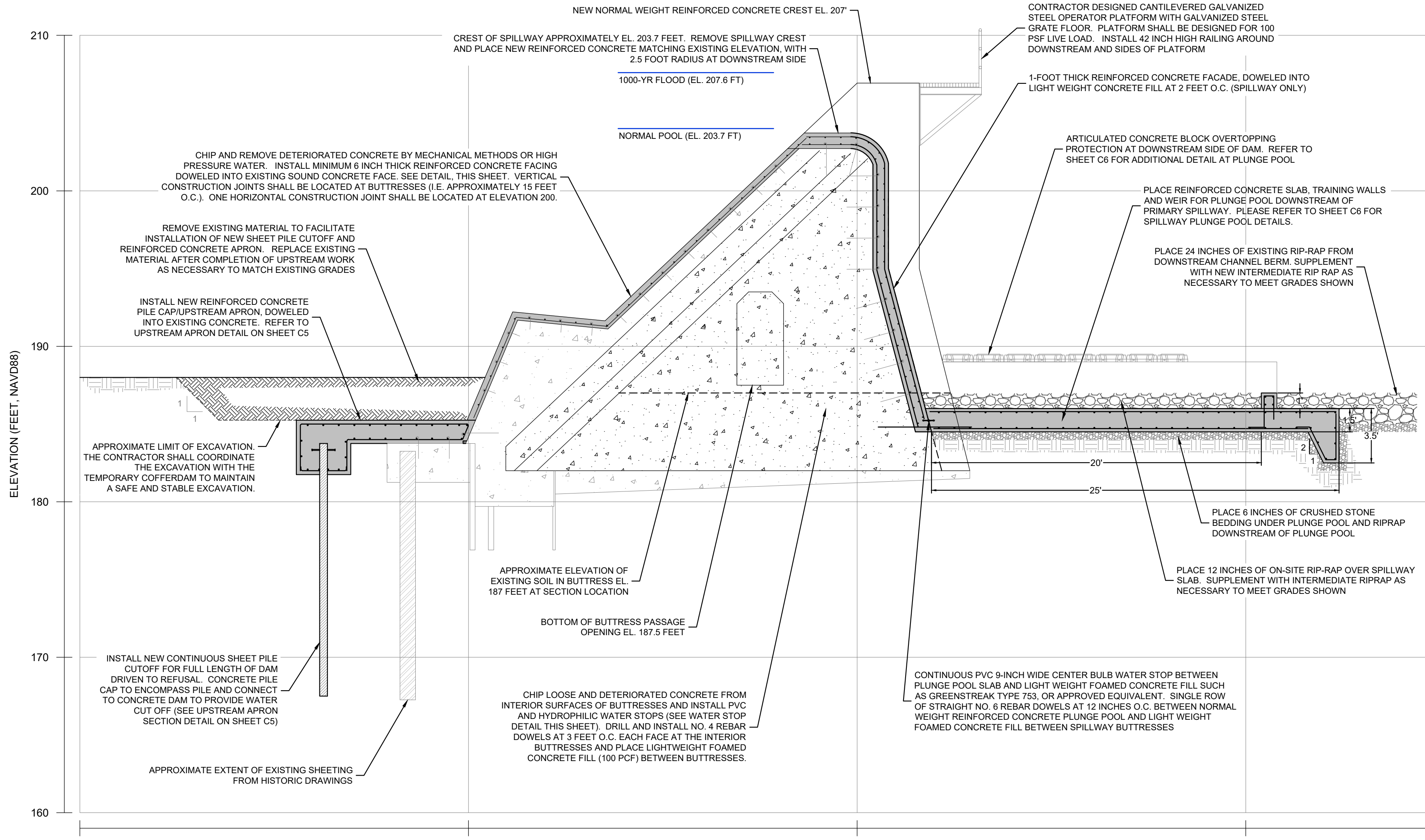
**5 OPERATOR STEM HAUNCH DETAIL SECTION**  
C4

**STRUCTURAL CONCRETE REPAIR DETAIL**  
SCALE: 1\"/>

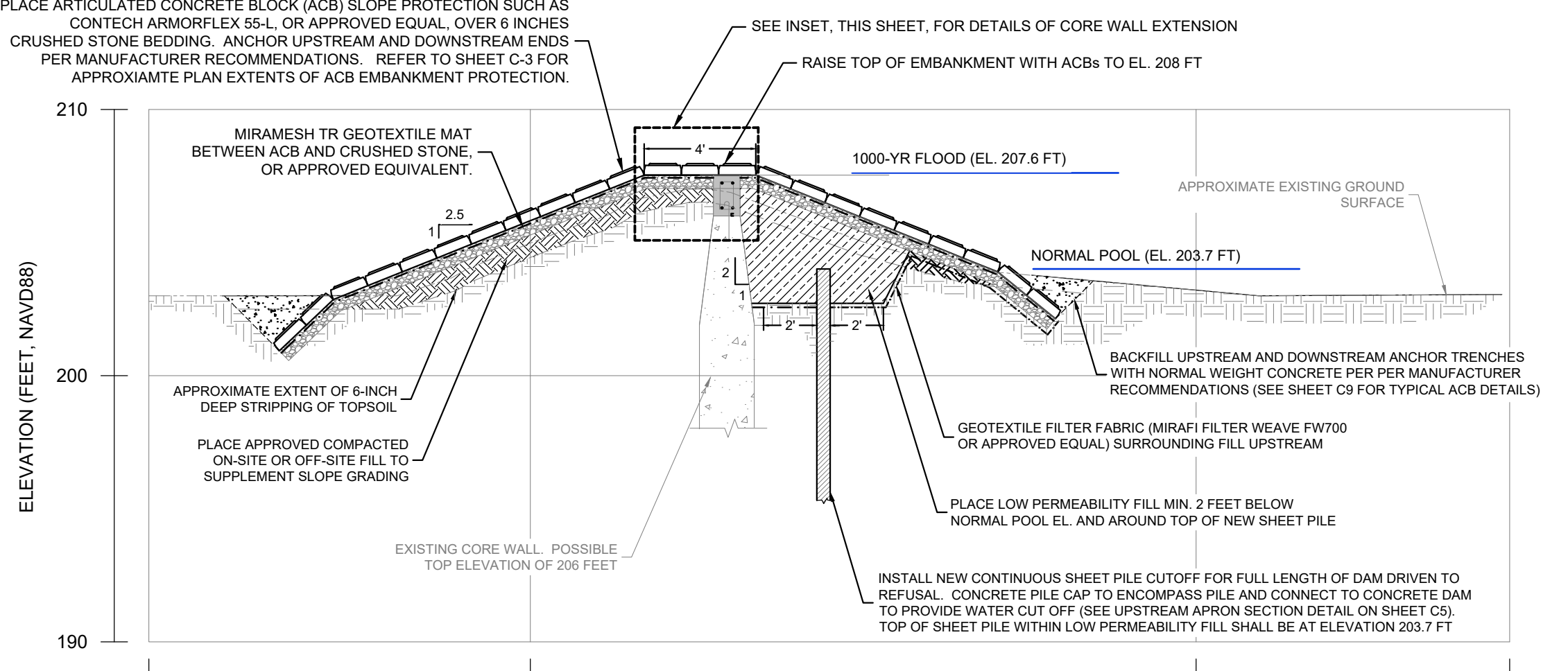
2	ISSUED FOR BIDDING	CBN	6/22/18
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NO.	ISSUE/DESCRIPTION	BY	DATE

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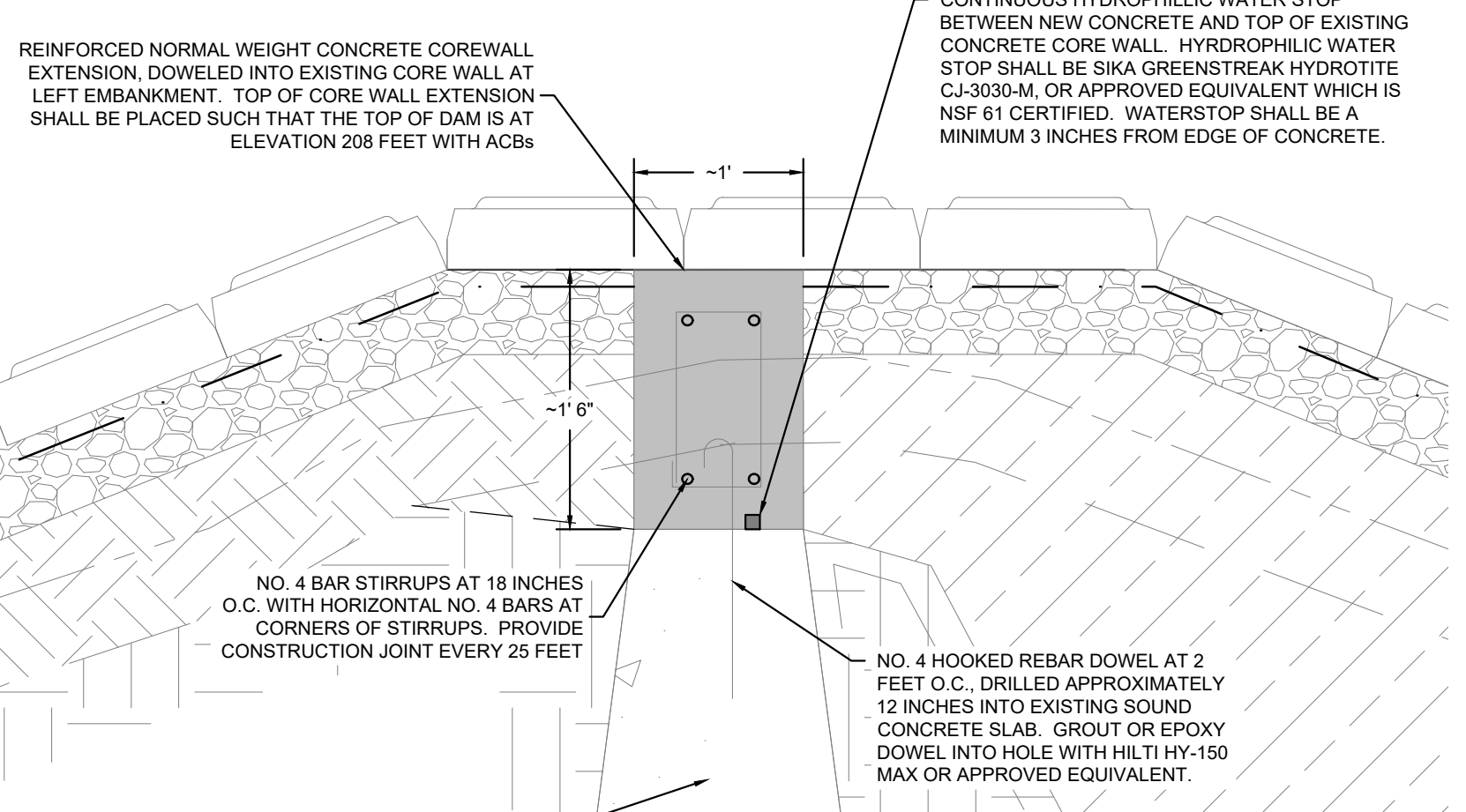
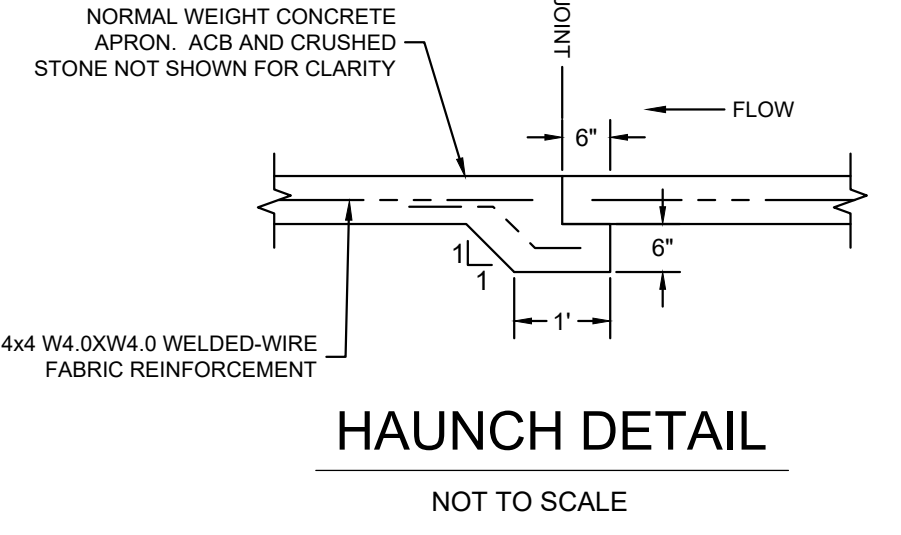
<b>BOGUE BROOK RESERVOIR DAM REHABILITATION PROJECT</b> MONTVILLE, CONNECTICUT			
<b>FINAL CONDITIONS SECTIONS AND DETAILS (1 OF 3)</b>			
PREPARED BY:	<b>GZA GeoEnvironmental, Inc.</b> Engineers and Scientists www.gza.com	PREPARED FOR:	<b>THE CITY OF NEW LONDON</b>
PROJ MGR:	JDA	REVIEWED BY:	JDA
DESIGNED BY:	CBN	DRAWN BY:	CBN/SMH
DATE:	5/22/2017	CHECKED BY:	PHB
		SCALE:	AS NOTED
		REVISION NO.	
		PROJECT NO.	01.0172560.0
			<b>SHEET C4</b>



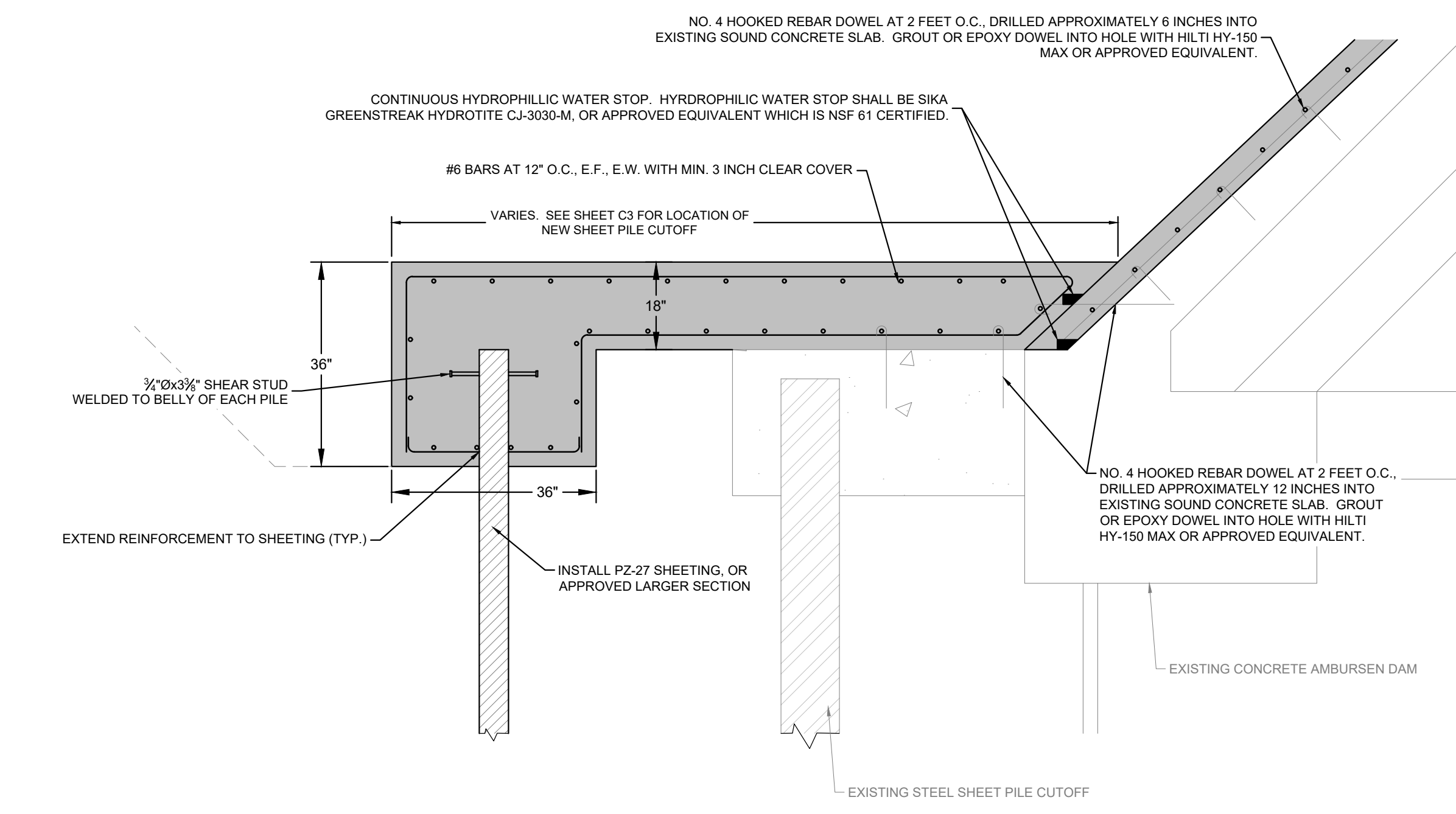
**3 FINAL CONDITIONS SECTION**  
C3  
0 2' 6" 5' 10'  
SCALE: 1" = 5'



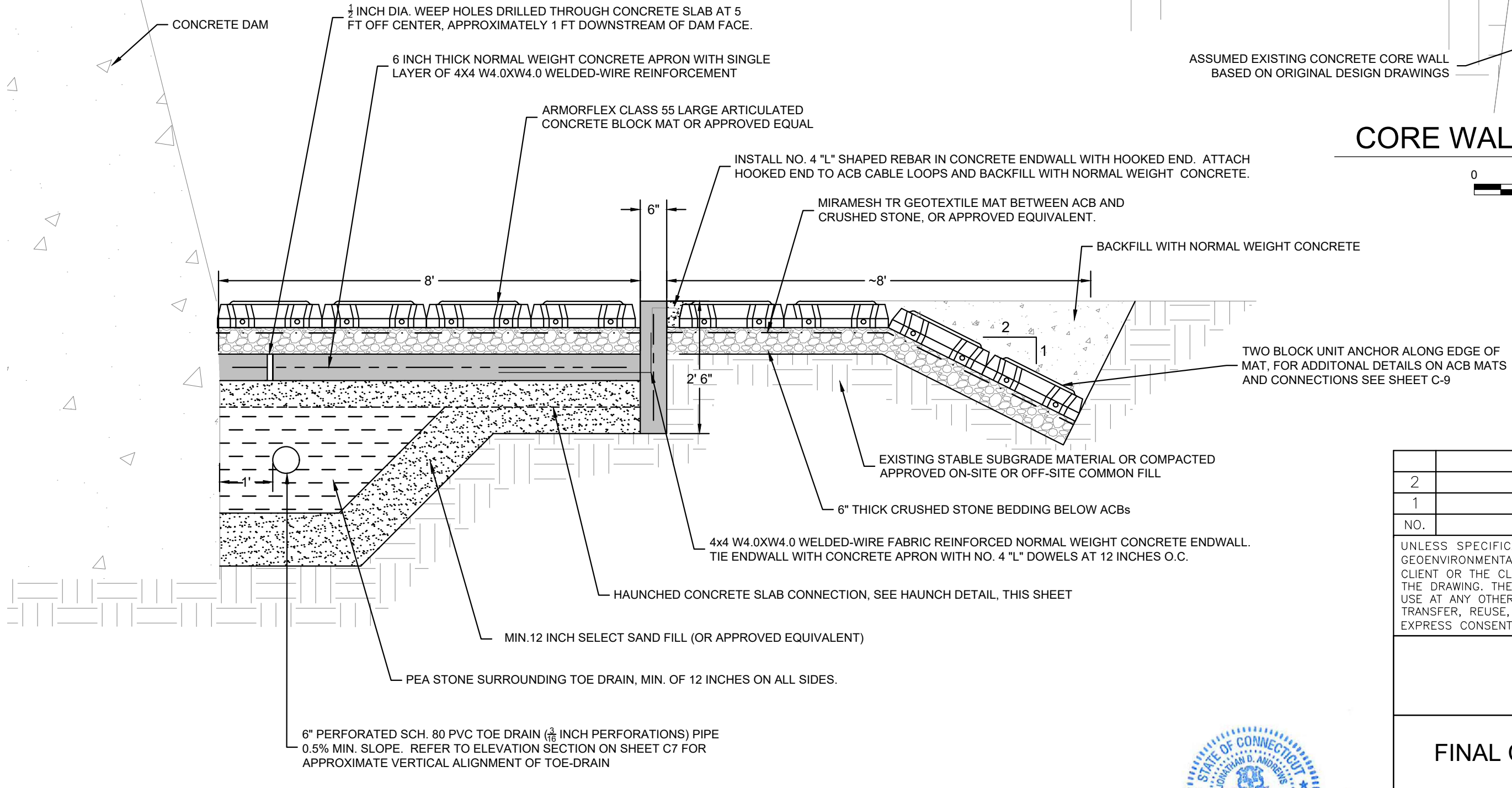
**4 FINAL CONDITIONS SECTION**  
C3  
0 2' 6" 5' 10'  
SCALE: 1" = 5'



**CORE WALL EXTENSION INSET**  
0 3' 6" 6" 1'  
SCALE: 1" = 6'



**UPSTREAM APRON DETAIL**  
NOT TO SCALE



**DOWNSTREAM OVERTOPPING PROTECTION AND TOE DRAIN DETAIL (TYP.)**  
NOT TO SCALE

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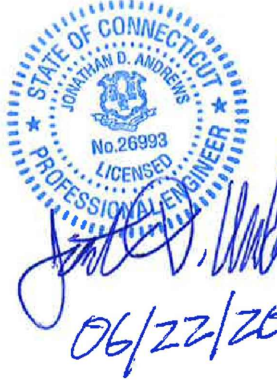
**BOGUE BROOK RESERVOIR DAM  
REHABILITATION PROJECT  
MONTVILLE, CONNECTICUT**

**FINAL CONDITIONS SECTIONS AND DETAILS (2 OF 3)**

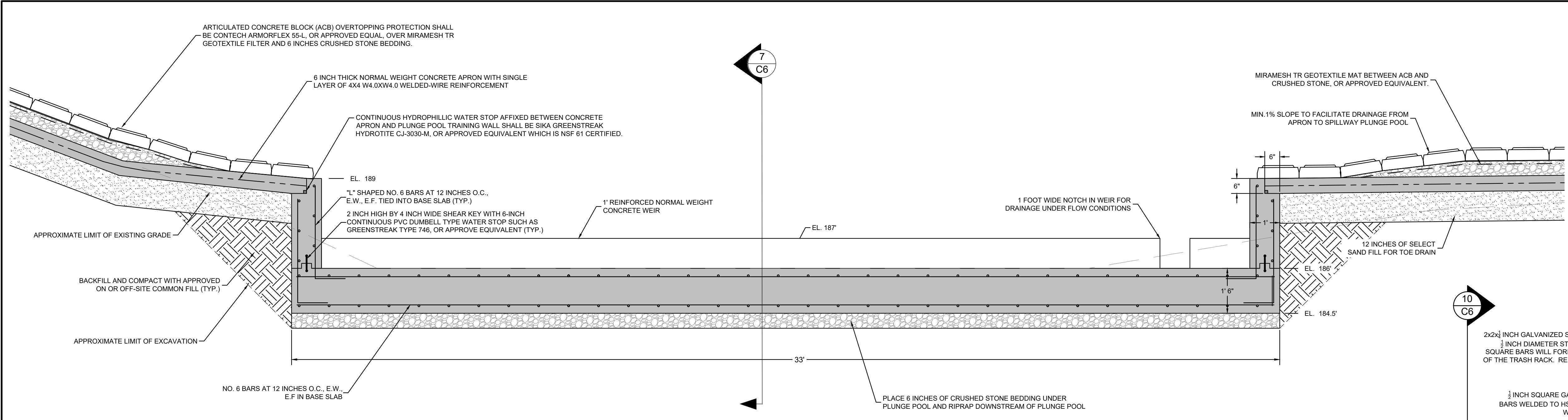
PREPARED BY: **GZA** GeoEnvironmental, Inc.  
Engineers and Scientists  
www.gza.com

PREPARED FOR: THE CITY OF NEW LONDON

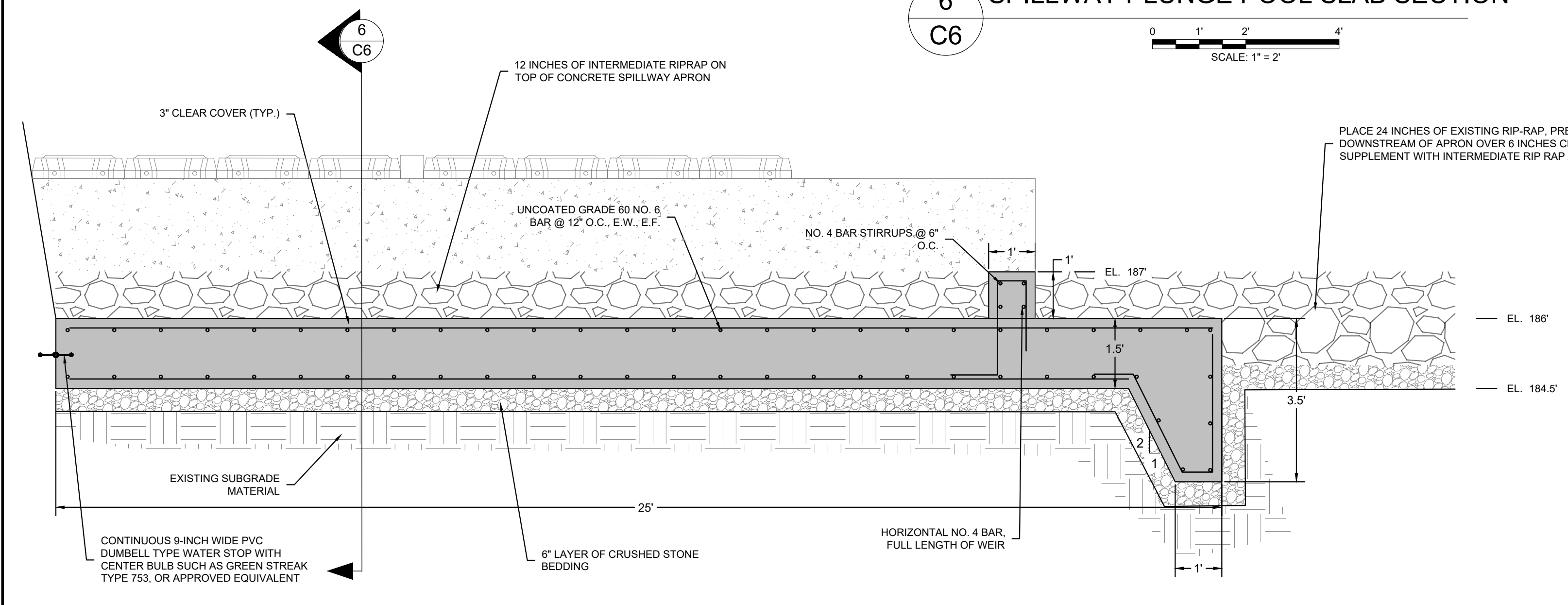
PROJ MGR: JDA	REVIEWED BY: JDA	CHECKED BY: PHB	SHEET <b>C5</b>
DESIGNED BY: CBN	DRAWN BY: CBN/SMH	SCALE: AS NOTED	
DATE: 5/22/2017	PROJECT NO: 01.0172560.0	REVISION NO:	



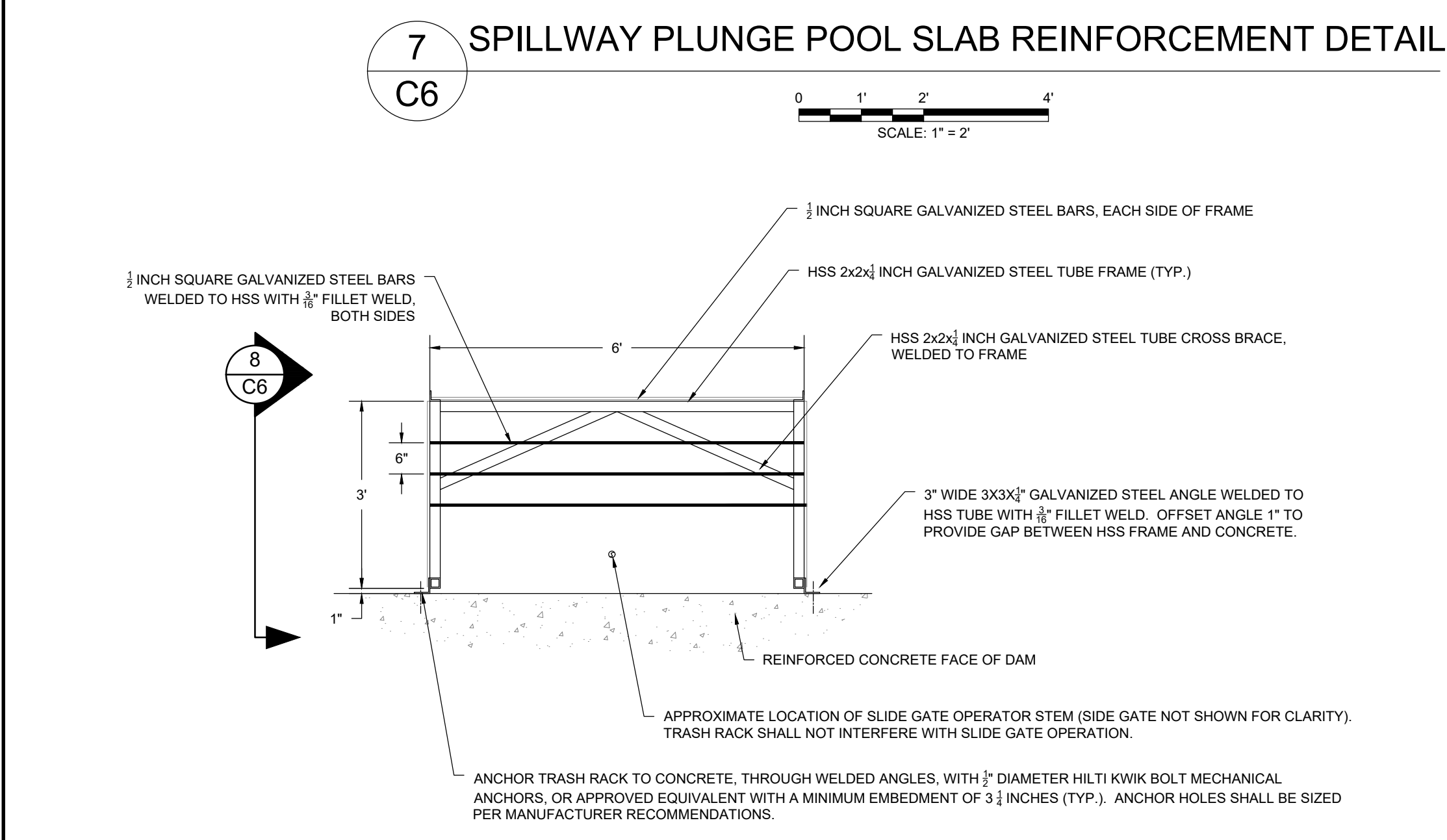
NOTE: REINFORCEMENT DEVELOPMENT LENGTHS, BENDS, HOOKS AND OTHER REINFORCEMENT DETAILS SHALL BE PER ACI 318 UNLESS OTHERWISE INDICATED.



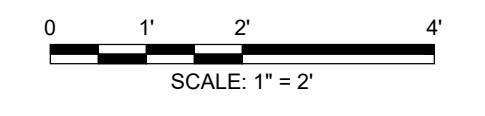
6 SPILLWAY PLUNGE POOL SLAB SECTION



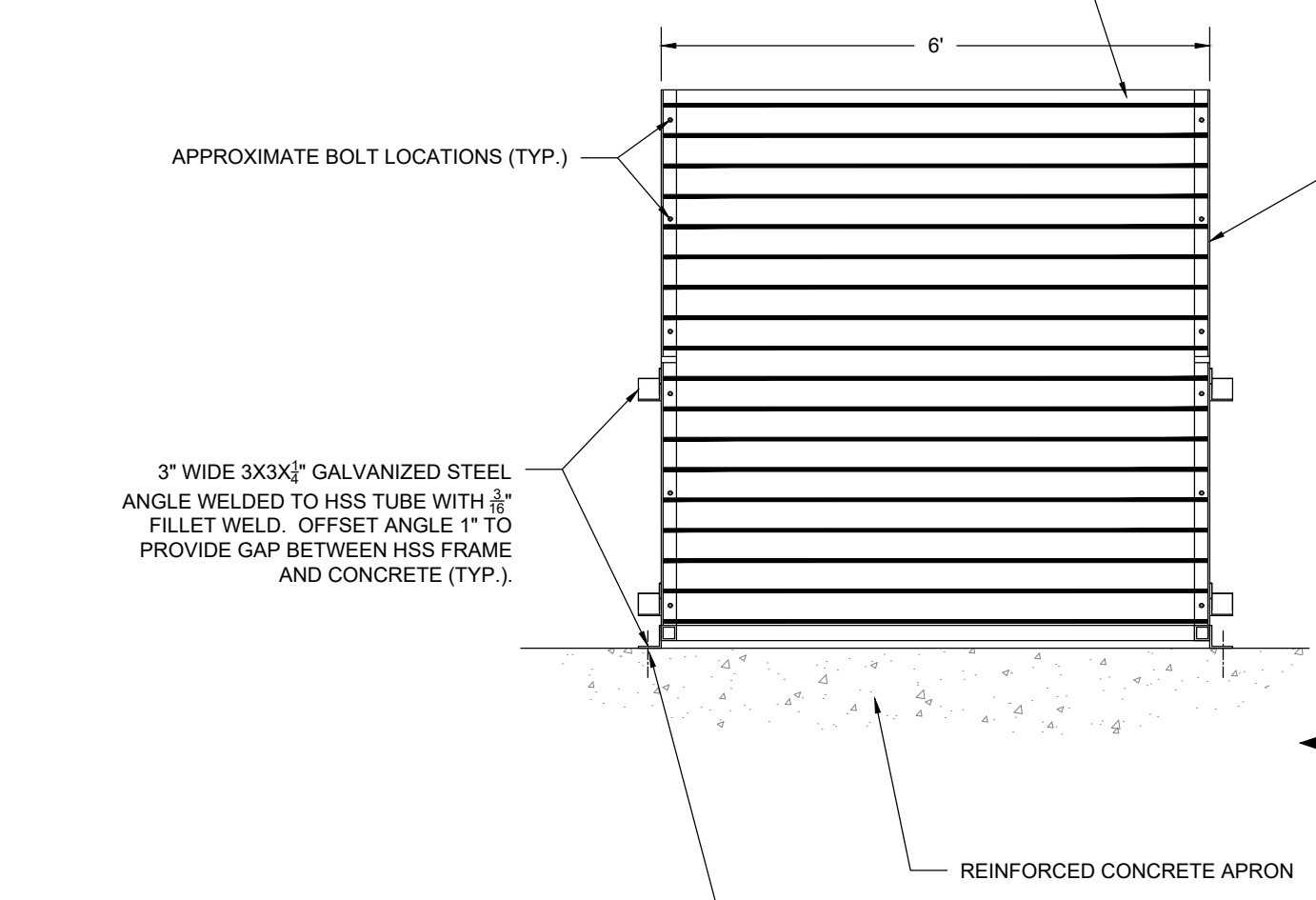
7 SPILLWAY PLUNGE POOL SLAB REINFORCEMENT DETAIL



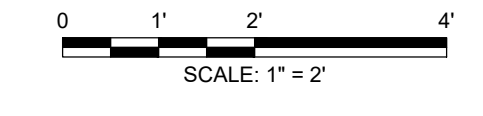
9 LOW-LEVEL OUTLET TRASH RACK TOP VIEW



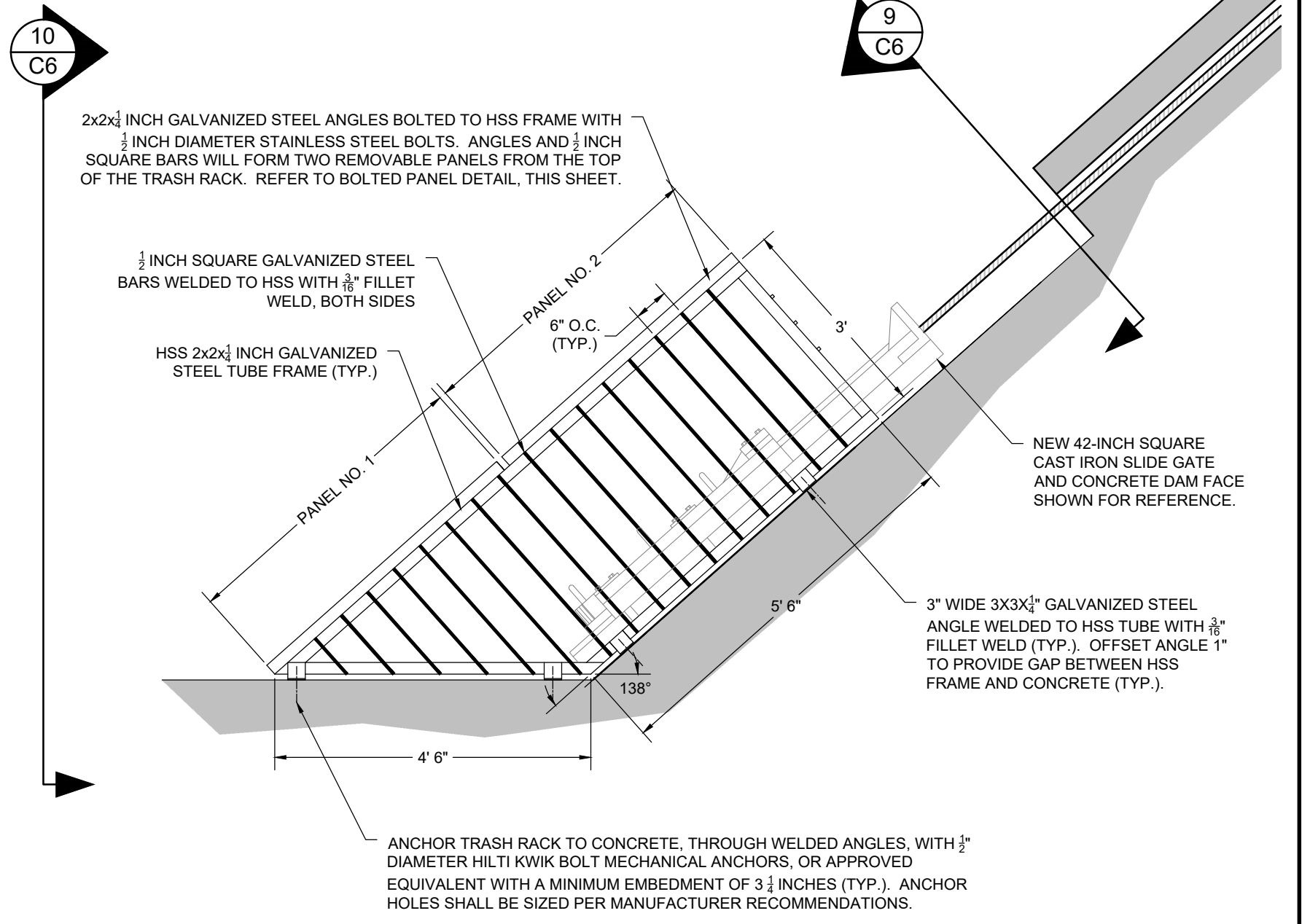
1/2 INCH SQUARE GALVANIZED STEEL BARS WELDED TO ANGLES WITH 3/8" FILLET WELD, BOTH SIDES. BAR RACK AND ANGLE ASSEMBLY SHALL FORM TWO EQUAL SIZE REMOVABLE PANELS, BOLTED TO THE HSS FRAME WITH SIX 1/2 INCH DIAMETER STAINLESS STEEL BOLTS, EACH FRAME.



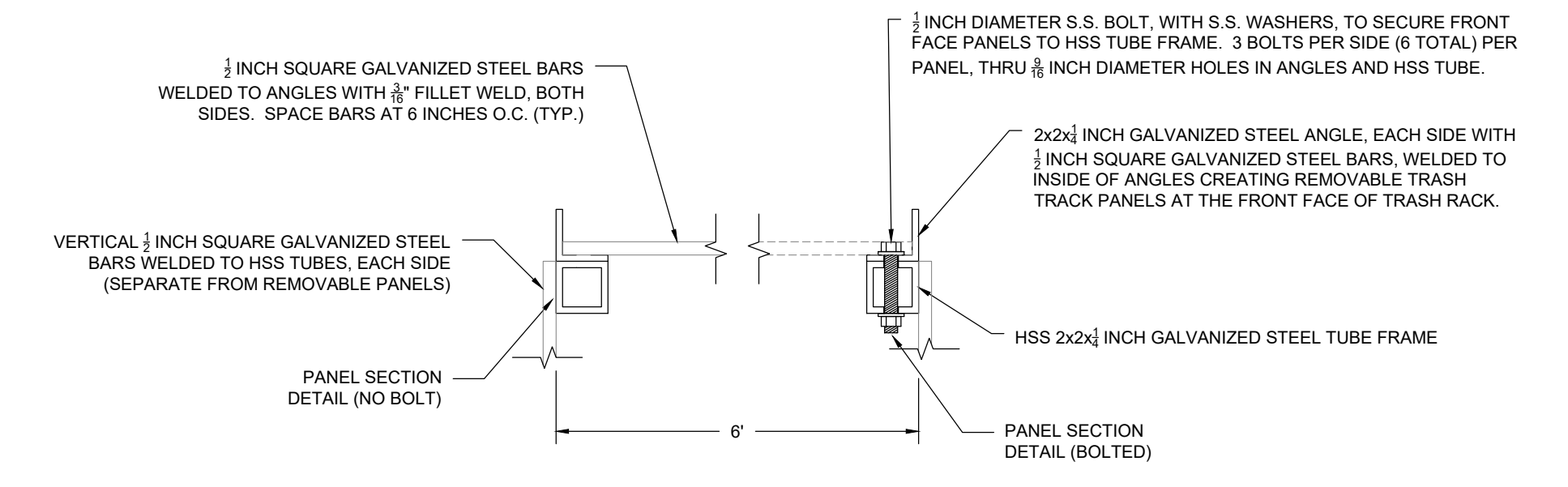
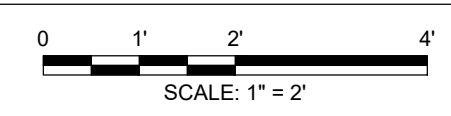
10 LOW-LEVEL OUTLET TRASH RACK FRONT ELEVATION VIEW



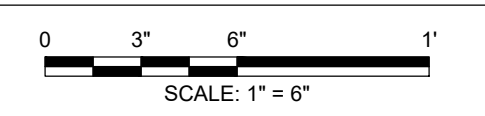
- NOTES:
- DIMENSIONS, ANGLES, AND GEOMETRY OF THE TRASH RACK SHALL CHECKED BY THE CONTRACTOR AND MODIFIED IF NECESSARY TO ACCOMMODATE OBSERVED FIELD CONDITIONS AND PROPOSED GEOMETRY OF THE APRON AND REINFORCED CONCRETE FACING.
  - PRIOR TO FABRICATION OF THE TRASH RACK, THE CONTRACTOR SHALL VERIFY THEIR PROPOSED SLIDE GATE AND OPERATOR SYSTEM IS CAPABLE OF ITS FULL RANGE OF OPERATION WITHOUT INTERFERENCE WITH THE TRASH RACK.
  - THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER AND OWNER THEIR TRASH RACK DESIGN WITH PROPOSED MODIFICATIONS.



8 LOW-LEVEL OUTLET TRASH RACK SIDE ELEVATION VIEW



BOLTED PANEL DETAIL



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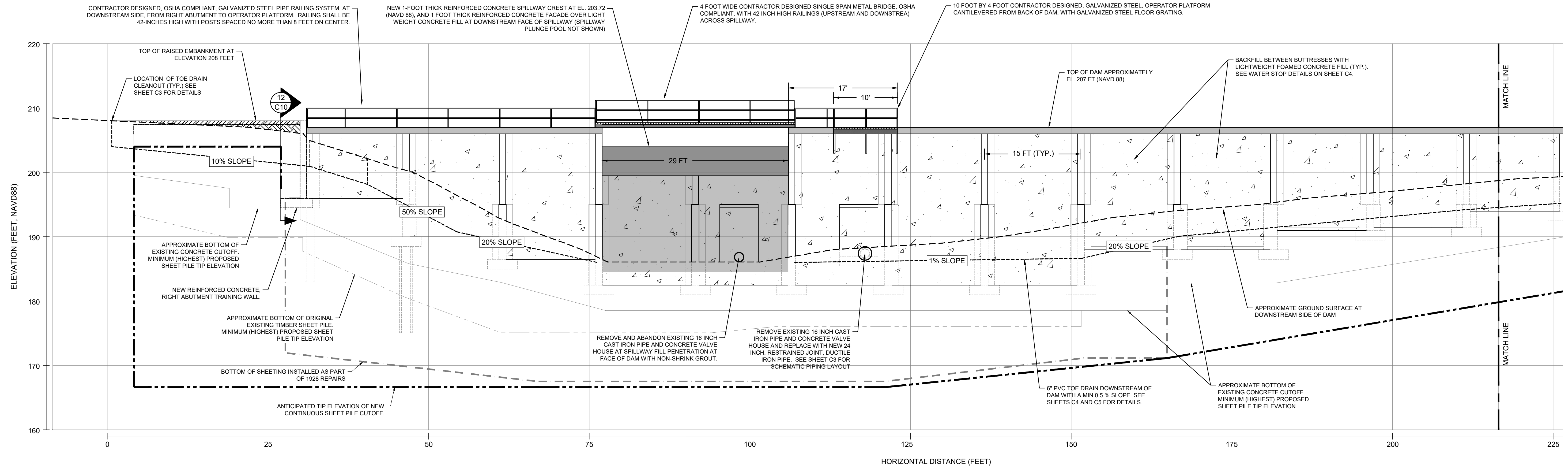
FINAL CONDITIONS SECTIONS AND DETAILS (3 OF 3)

PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:	THE CITY OF NEW LONDON
PROJ MGR:	JDA	REVIEWED BY:	JDA
DESIGNED BY:	CBN	DRAWN BY:	CBN/SMH
DATE:	5/22/2017	PROJECT NO.:	01.0172560.0
CHECKED BY:	PHB	SCALE:	AS NOTED
		REVISION NO.:	

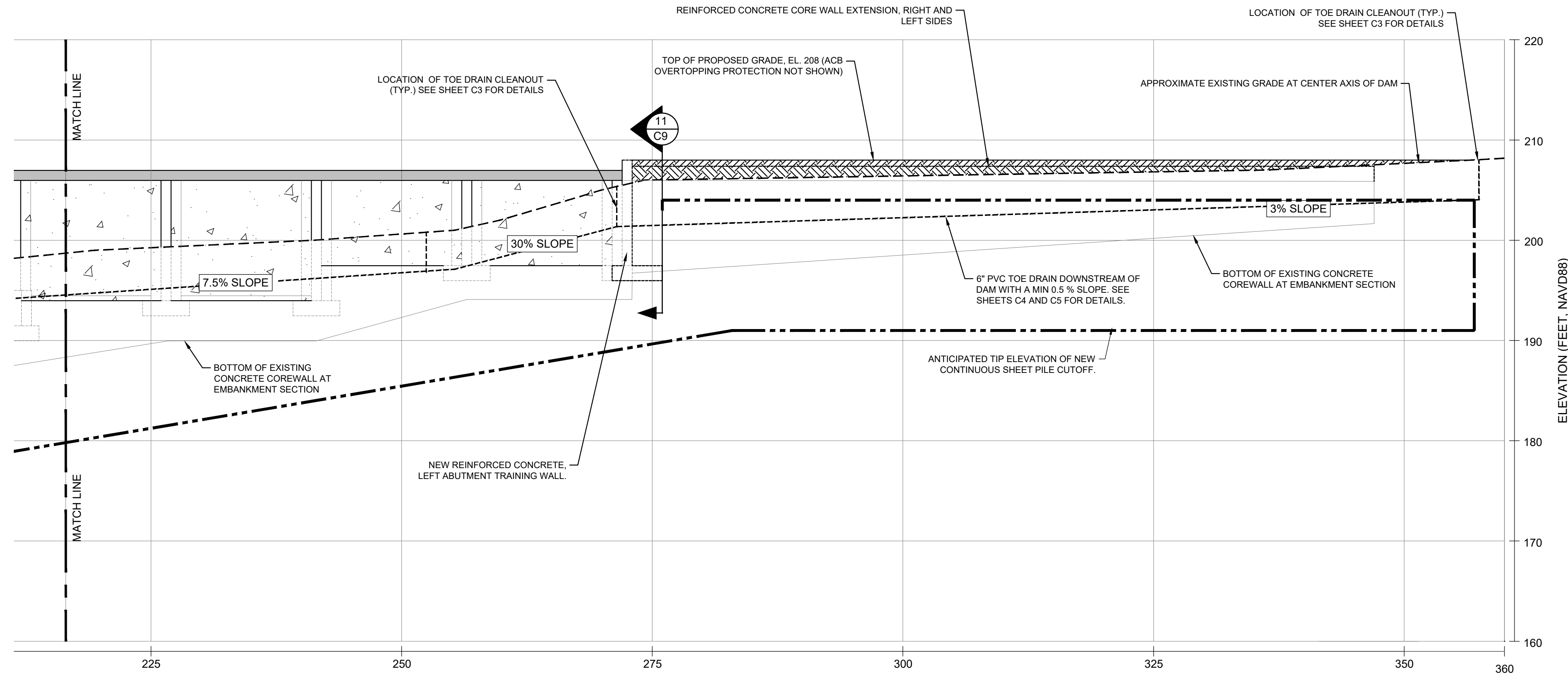


SHEET C6

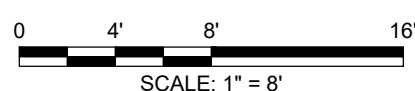
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PROPOSED CONDITIONS DOWNSTREAM  
ELEVATION VIEW



PROPOSED CONDITIONS DOWNSTREAM  
ELEVATION VIEW (CONTINUED)



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1	RE-ISSUED FOR PERMITS	CBN	2/12/18
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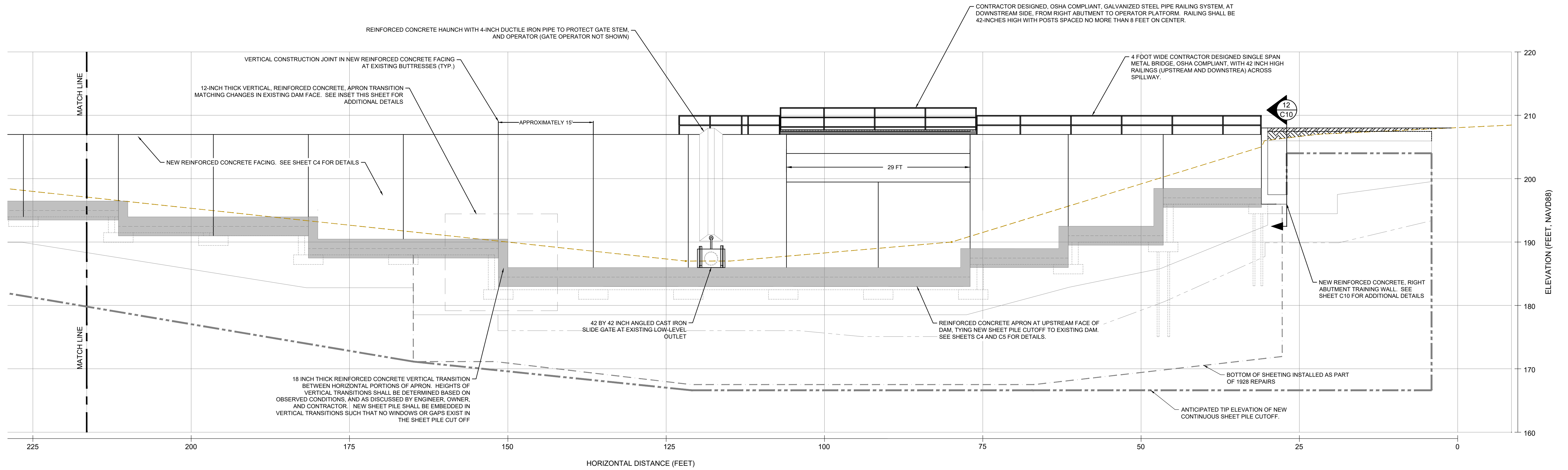
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REHABILITATION PROJECT  
MONTVILLE, CONNECTICUT**

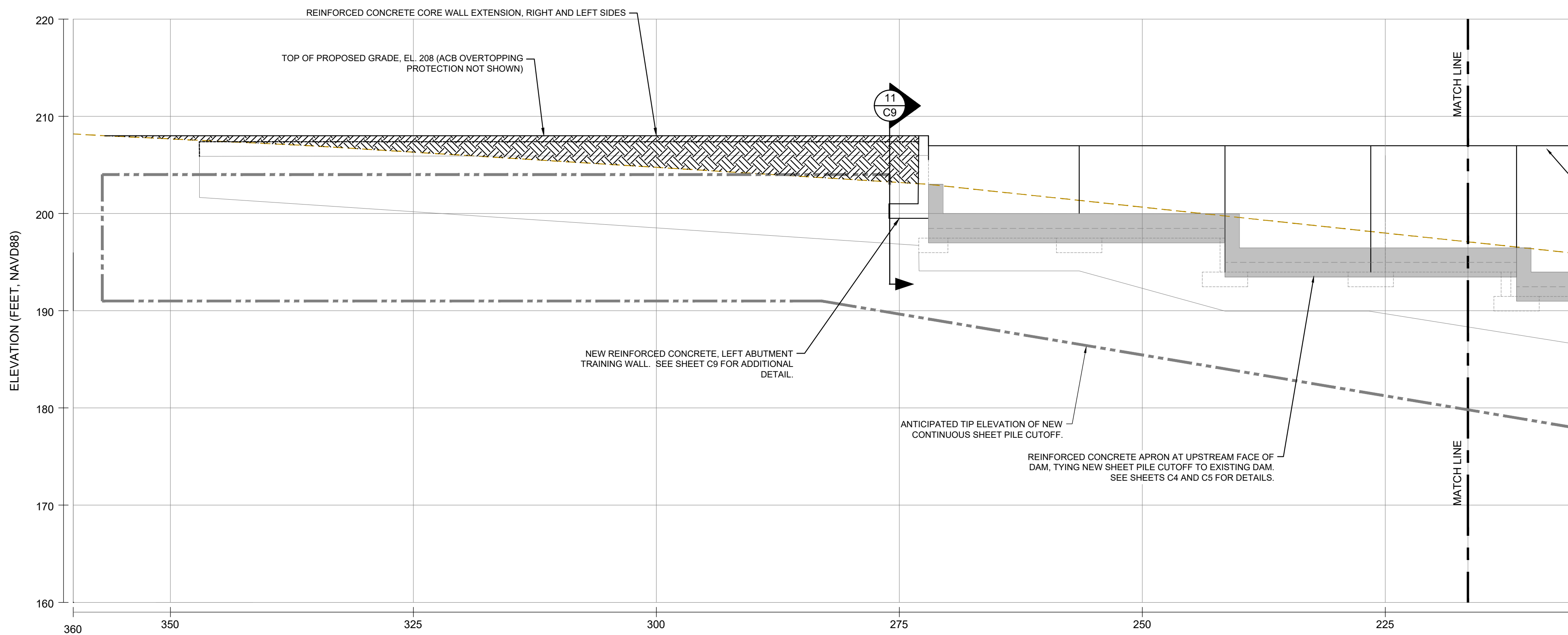
**FINAL CONDITIONS DOWNSTREAM ELEVATION  
SECTION**

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: THE CITY OF NEW LONDON	SHEET <b>C7</b>
PROJ MGR: JDA DESIGNED BY: CBN DATE: 5/22/2017	REVIEWED BY: JDA DRAWN BY: CBN/SMH PROJECT NO: 01.0172560.0	

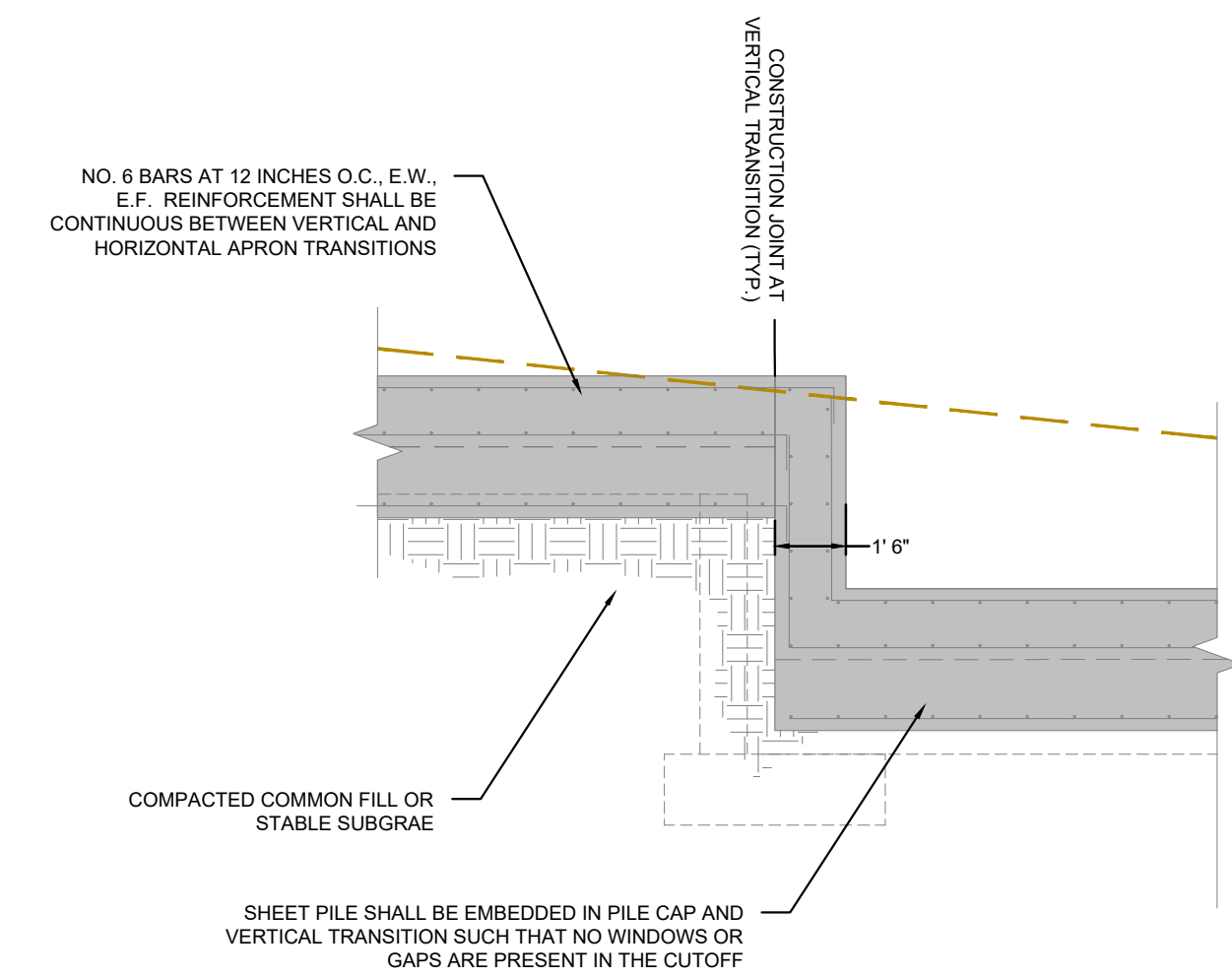
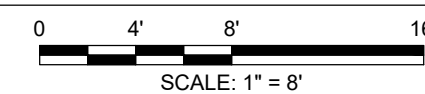
Jonathan J. Winkler  
 06/22/2018



PROPOSED CONDITIONS UPSTREAM ELEVATION VIEW



PROPOSED CONDITIONS UPSTREAM ELEVATION VIEW CONTINUED



INSET - UPSTREAM APRON VERTICAL TRANSITION



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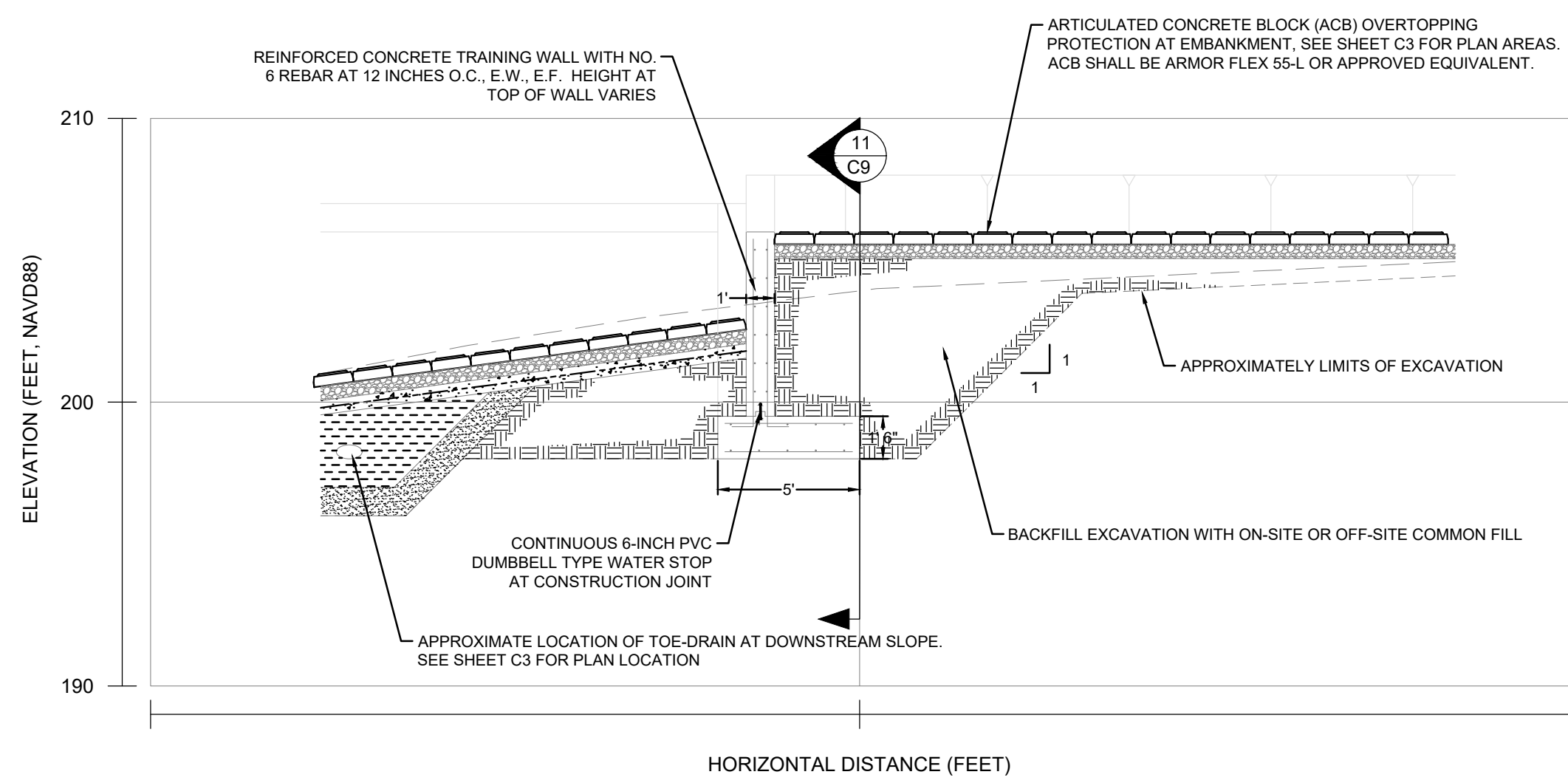
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REHABILITATION PROJECT  
MONTVILLE, CONNECTICUT

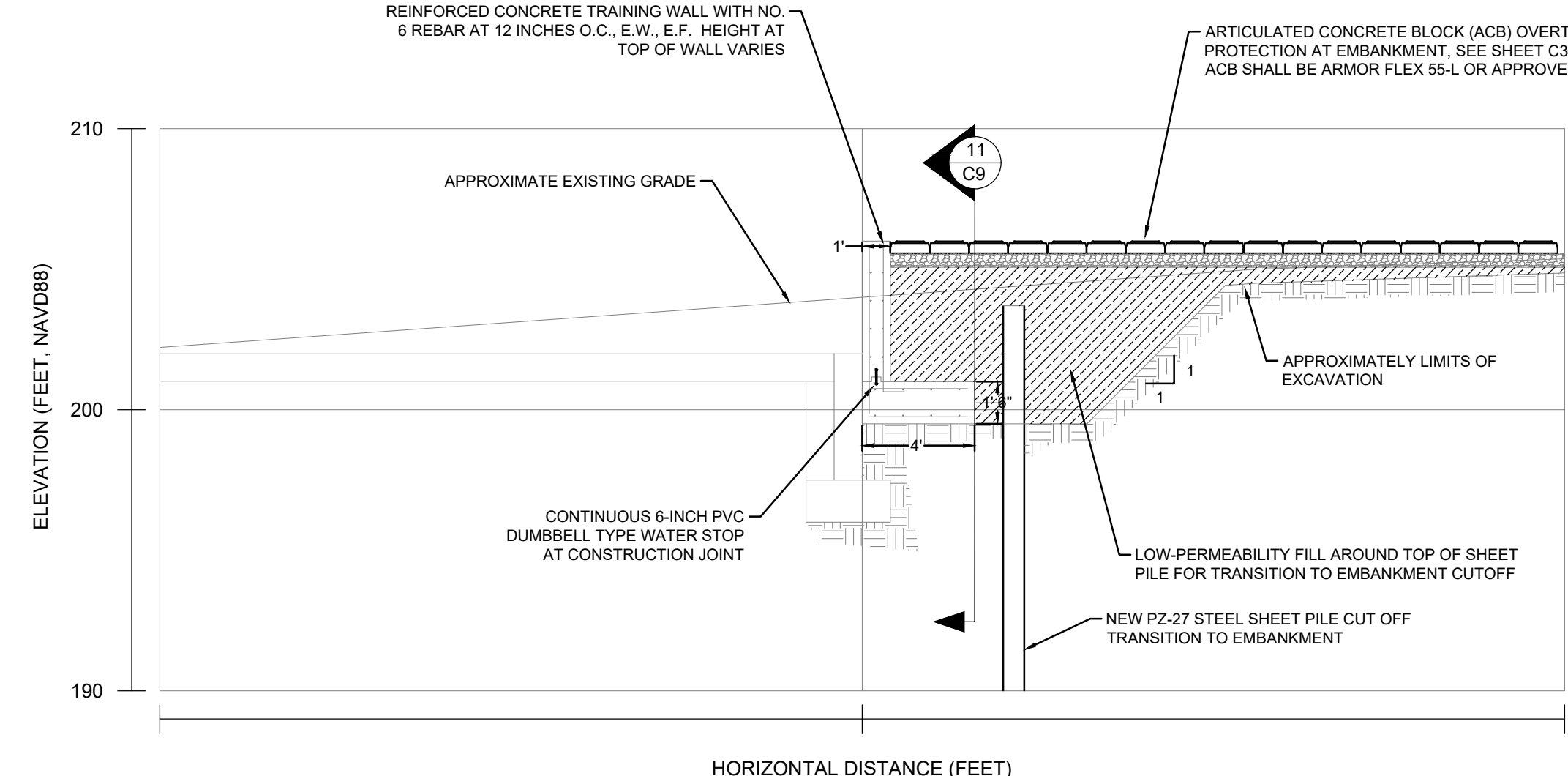
FINAL CONDITIONS UPSTREAM ELEVATION SECTION

PREPARED BY: <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: THE CITY OF NEW LONDON
PROJ MGR: JDA DESIGNED BY: CBN DATE: 5/22/2017	REVIEWED BY: JDA DRAWN BY: CBN/SMH PROJECT NO: 01.0172560.0
CHECKED BY: PHB SCALE: AS NOTED REVISION NO:	SHEET <b>C8</b>

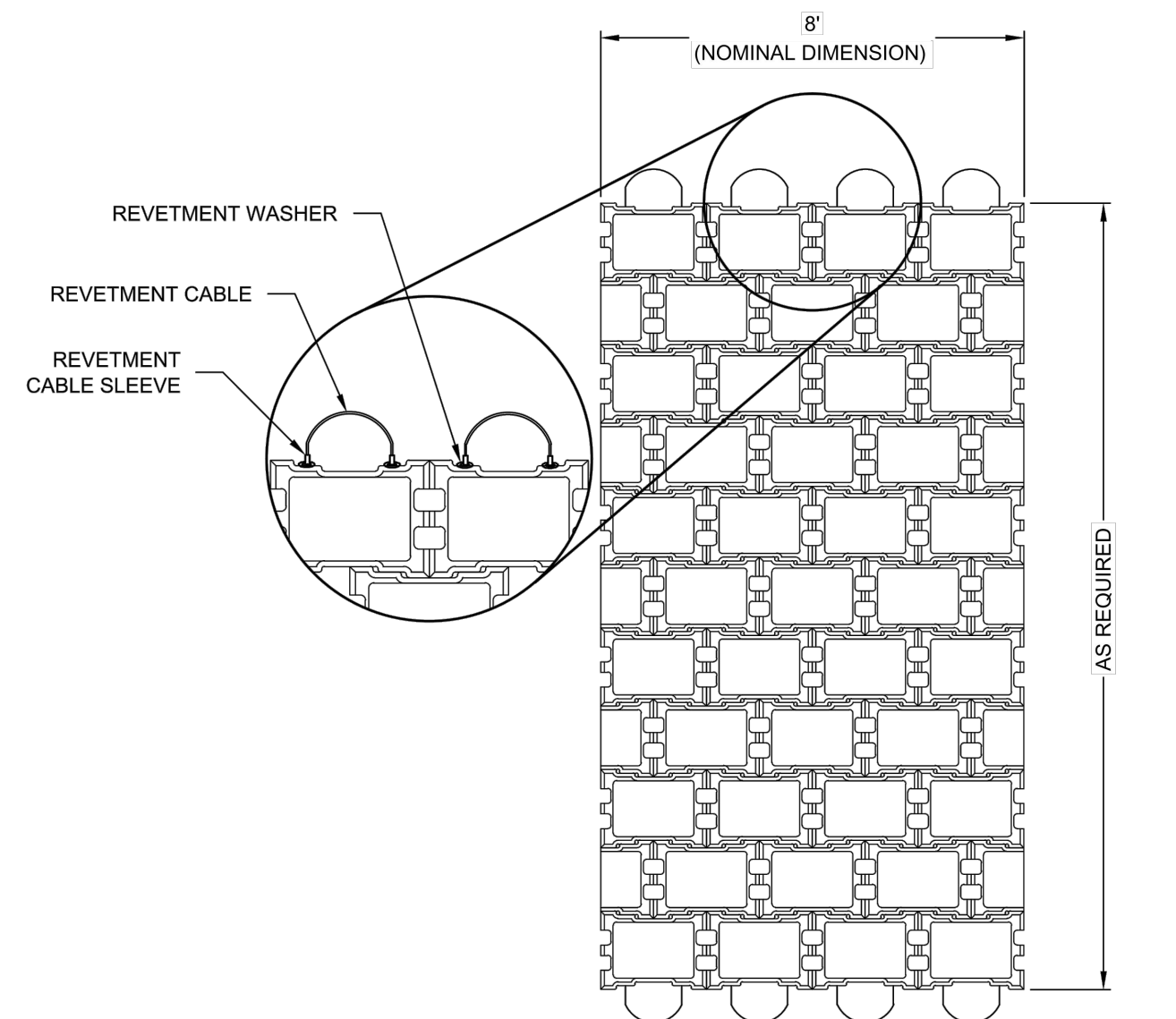




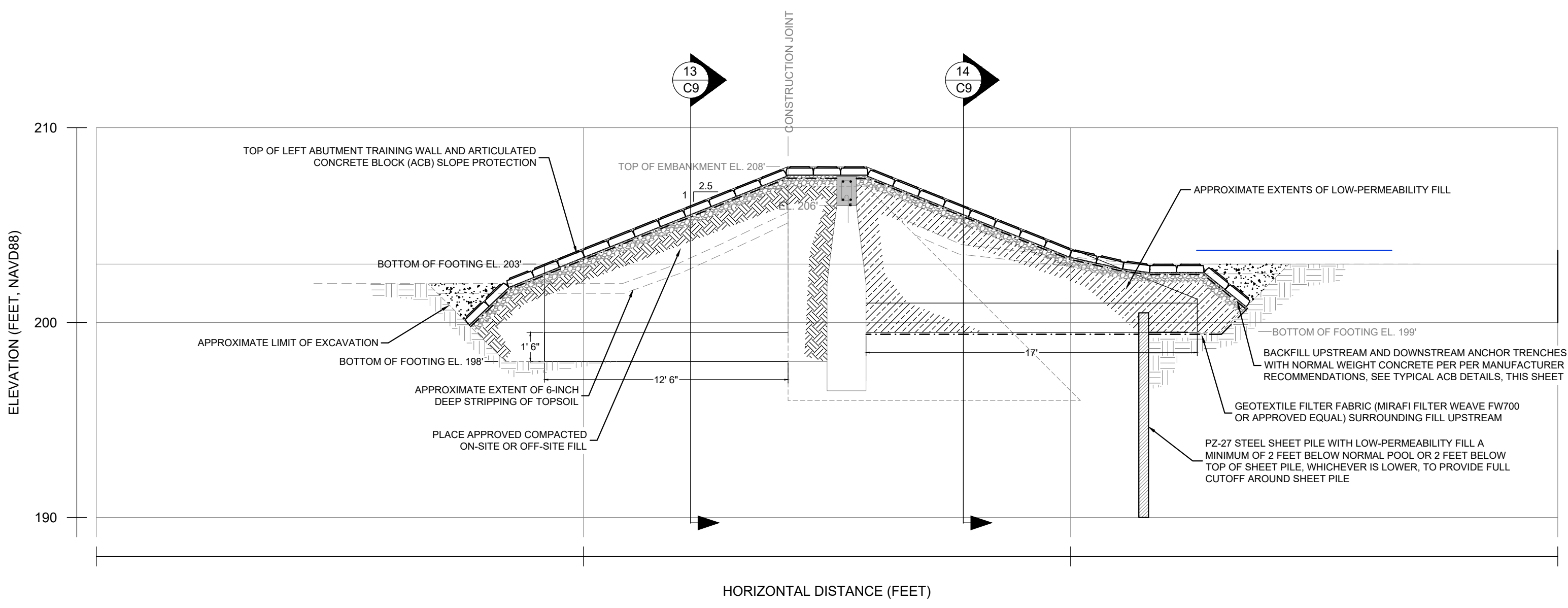
**13**  
**C8** LEFT ABUTMENT TRAINING WALL SECTION  
SCALE: 1" = 5'



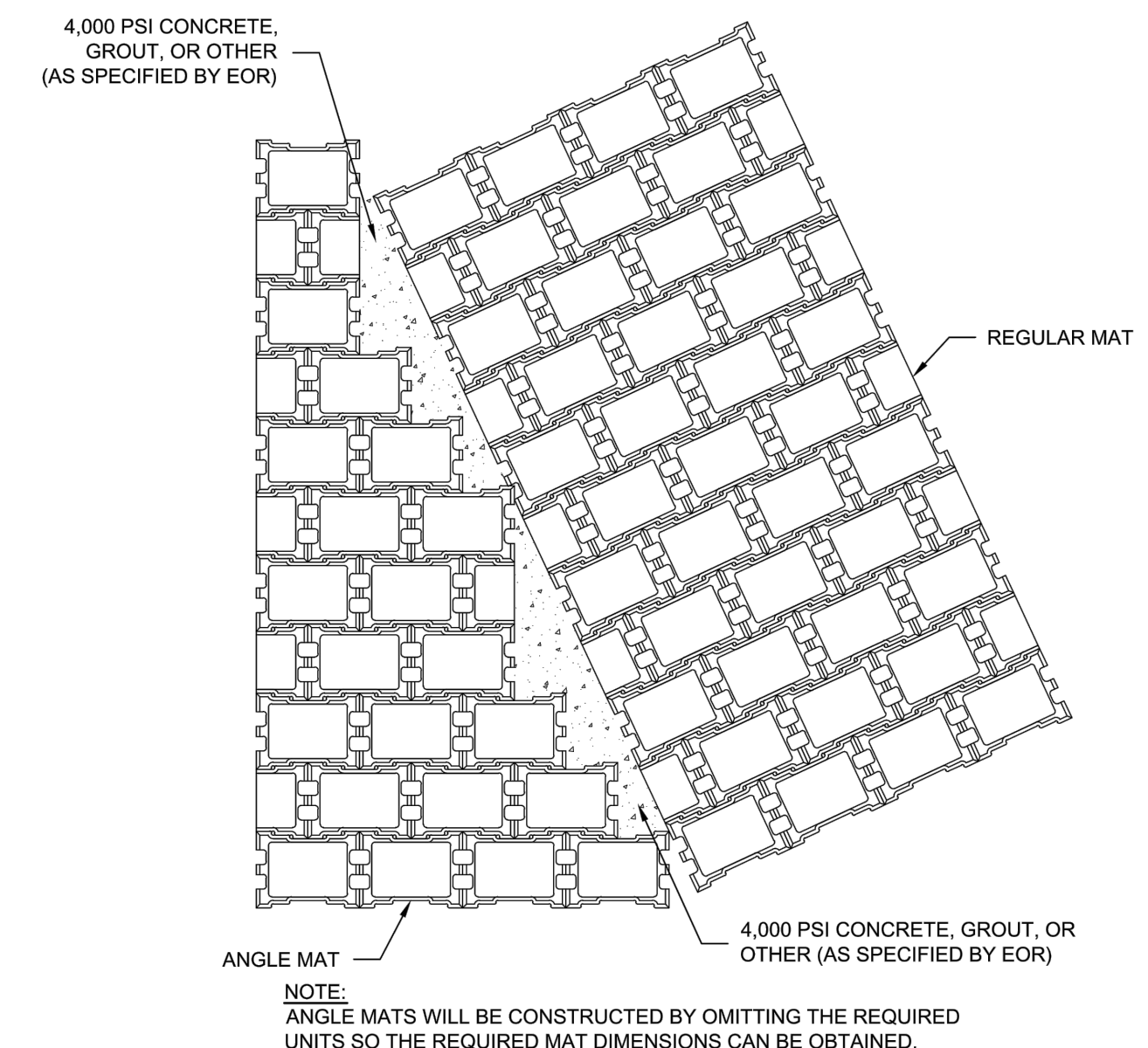
**14**  
**C8** LEFT ABUTMENT TRAINING WALL SECTION  
SCALE: 1" = 5'



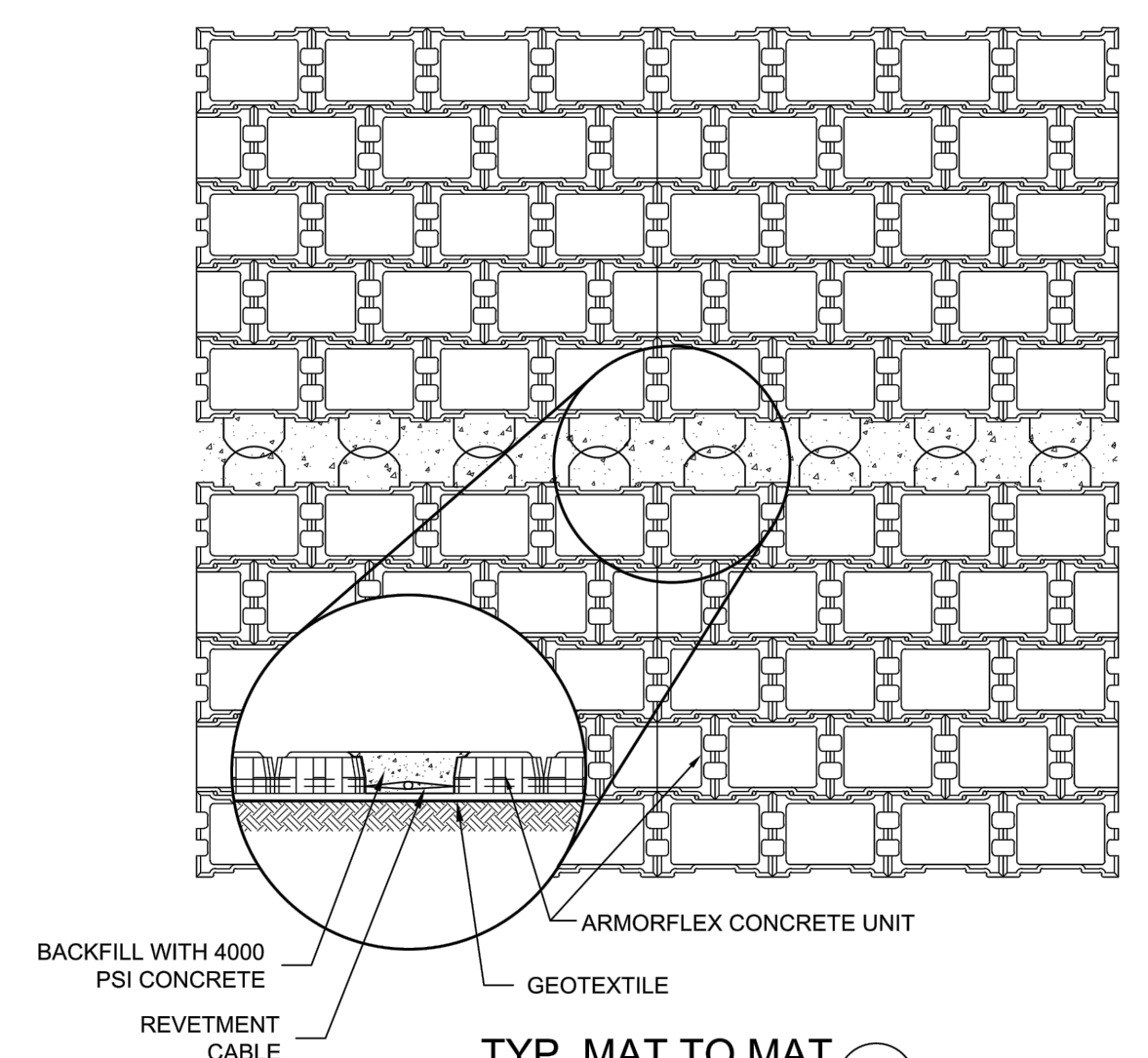
TYP. 55L MAT  
N.T.S.



**11**  
**C8** LEFT ABUTMENT TRAINING WALL ELEVATION SECTION  
SCALE: 1" = 5'

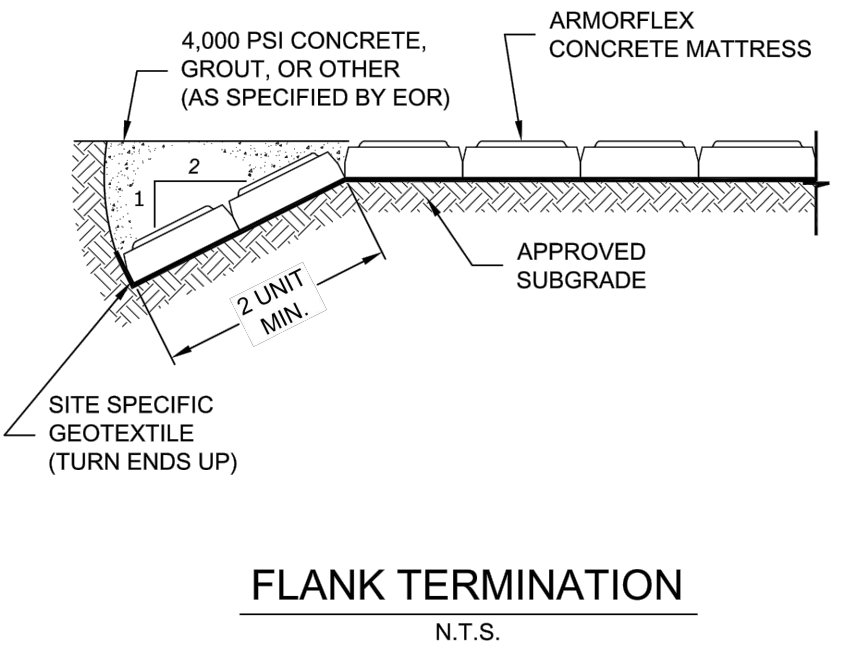


TYP. ANGLE MAT  
N.T.S.

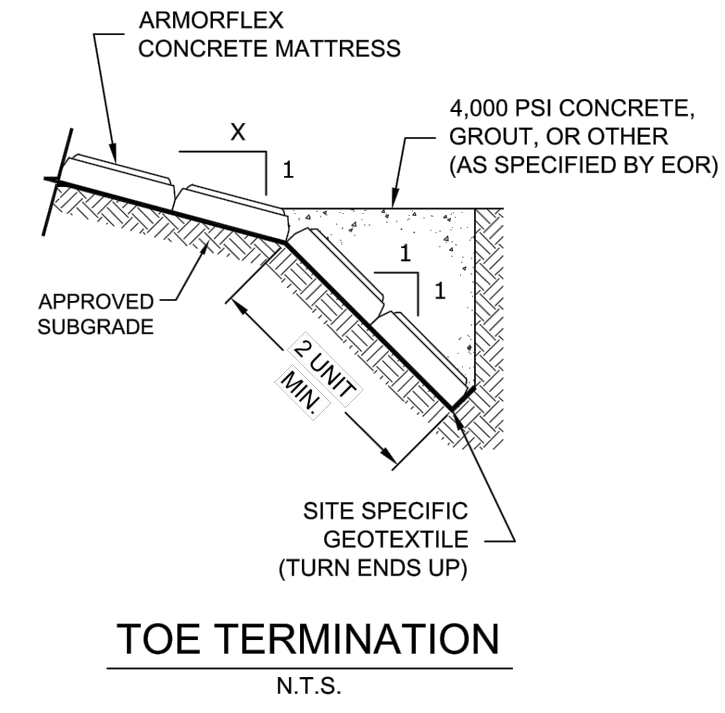


TYP. MAT TO MAT  
N.T.S.

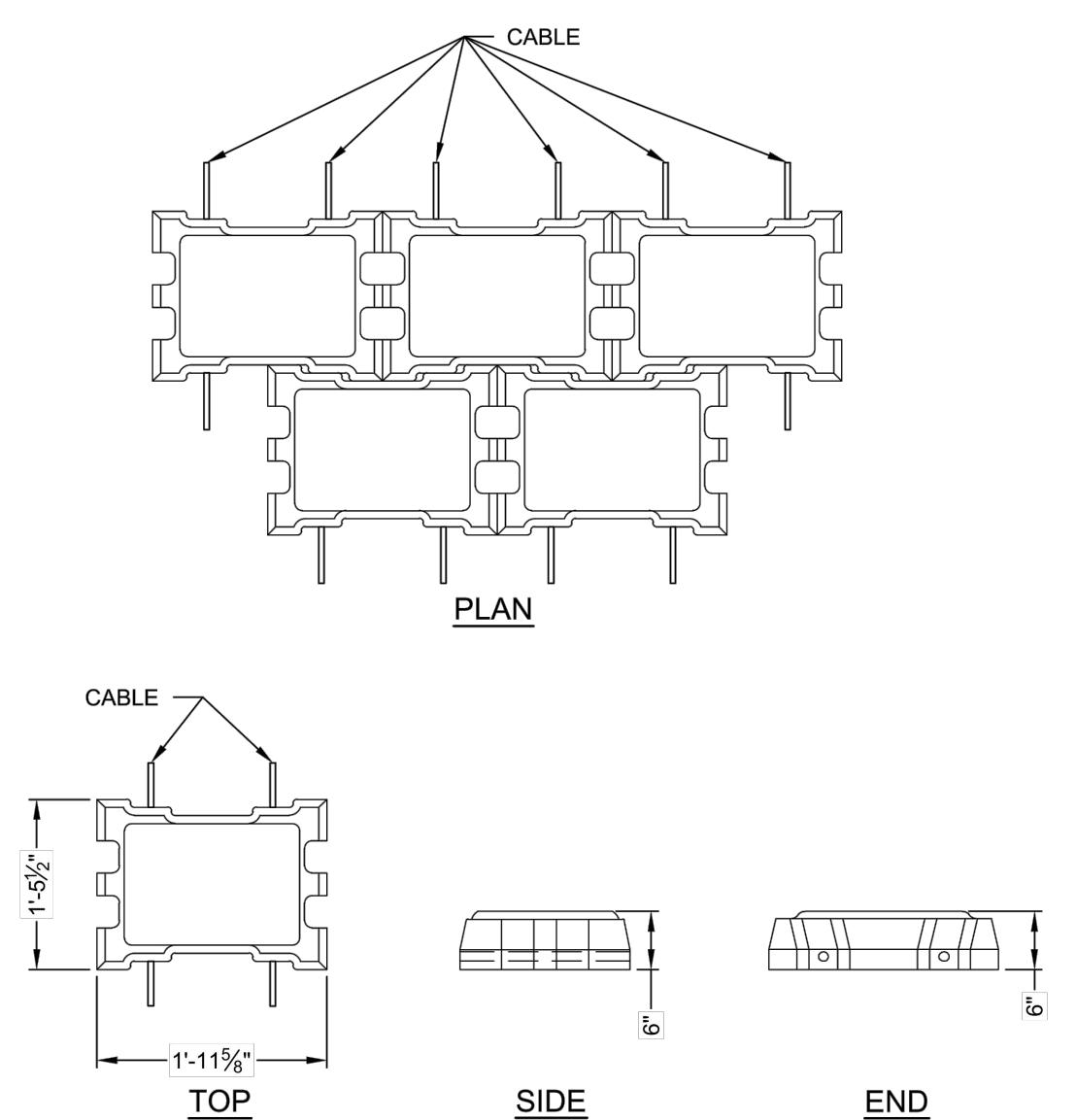
NOTES: THE PROPOSED SHEET PILE CUTOFF WALL SHALL BE INSTALLED TO PROVIDE A CONTINUOUS UPSTREAM SEEPAGE BARRIER FOR THE FULL LENGTH OF THE DAM. SHEET PILE SHALL BE CONTINUOUS AT TRANSITIONS BETWEEN THE NEW UPSTREAM CONCRETE APRON, NEW CONCRETE TRAINING WALLS, AND UPSTREAM LOW PERMEABILITY EMBANKMENT FILL SUCH THAT NO GAPS OR "WINDOWS" EXIST IN THE UPSTREAM SEEPAGE CUTOFF.



FLANK TERMINATION  
N.T.S.



TOE TERMINATION  
N.T.S.



TYP. 55L BLOCK  
N.T.S.

2	ISSUED FOR BIDDING	CBN	6/22/18
1	RE-ISSUED FOR PERMITS	CBN	2/12/18
NO.	ISSUE/DESCRIPTION	BY	DATE

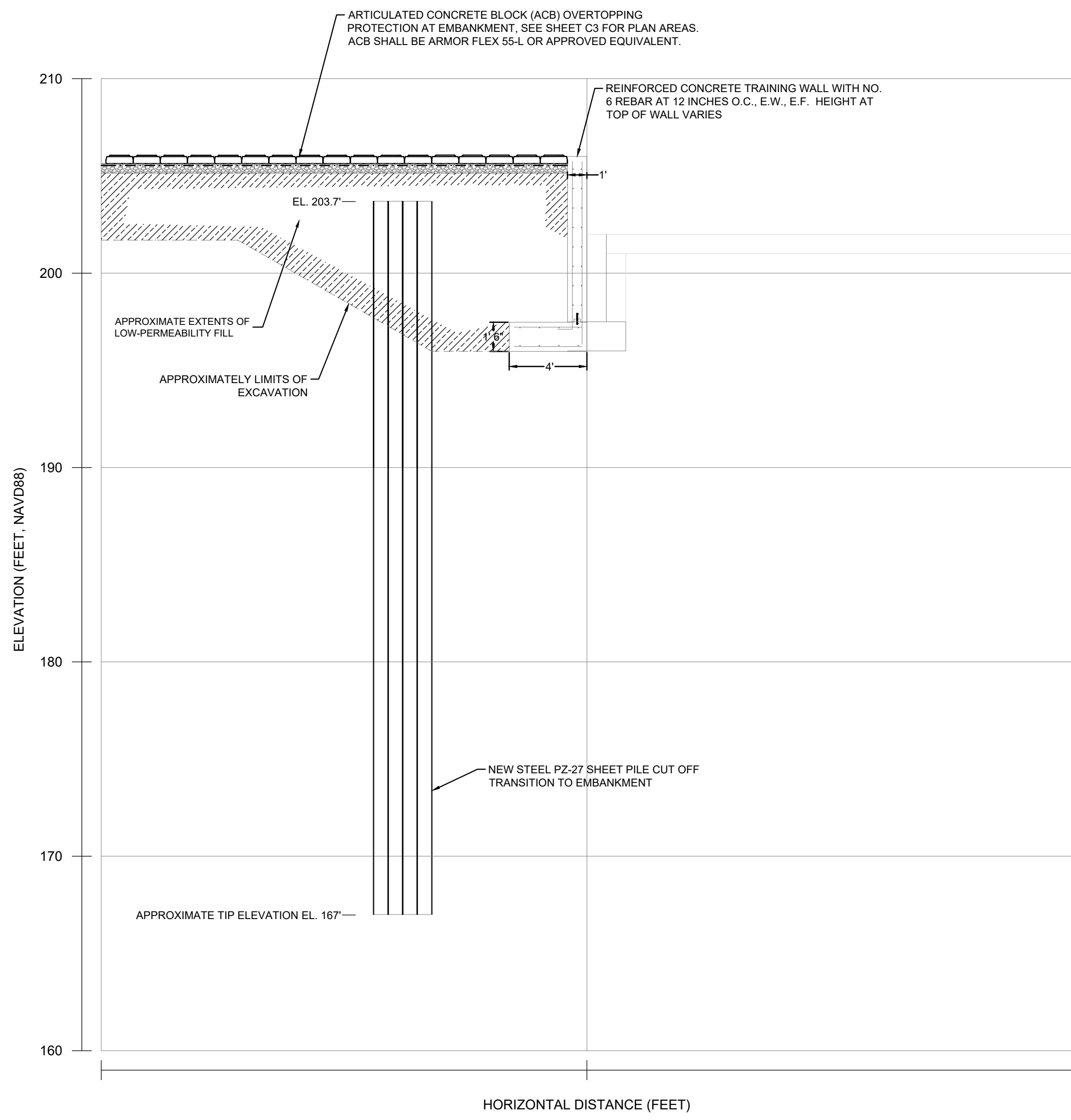
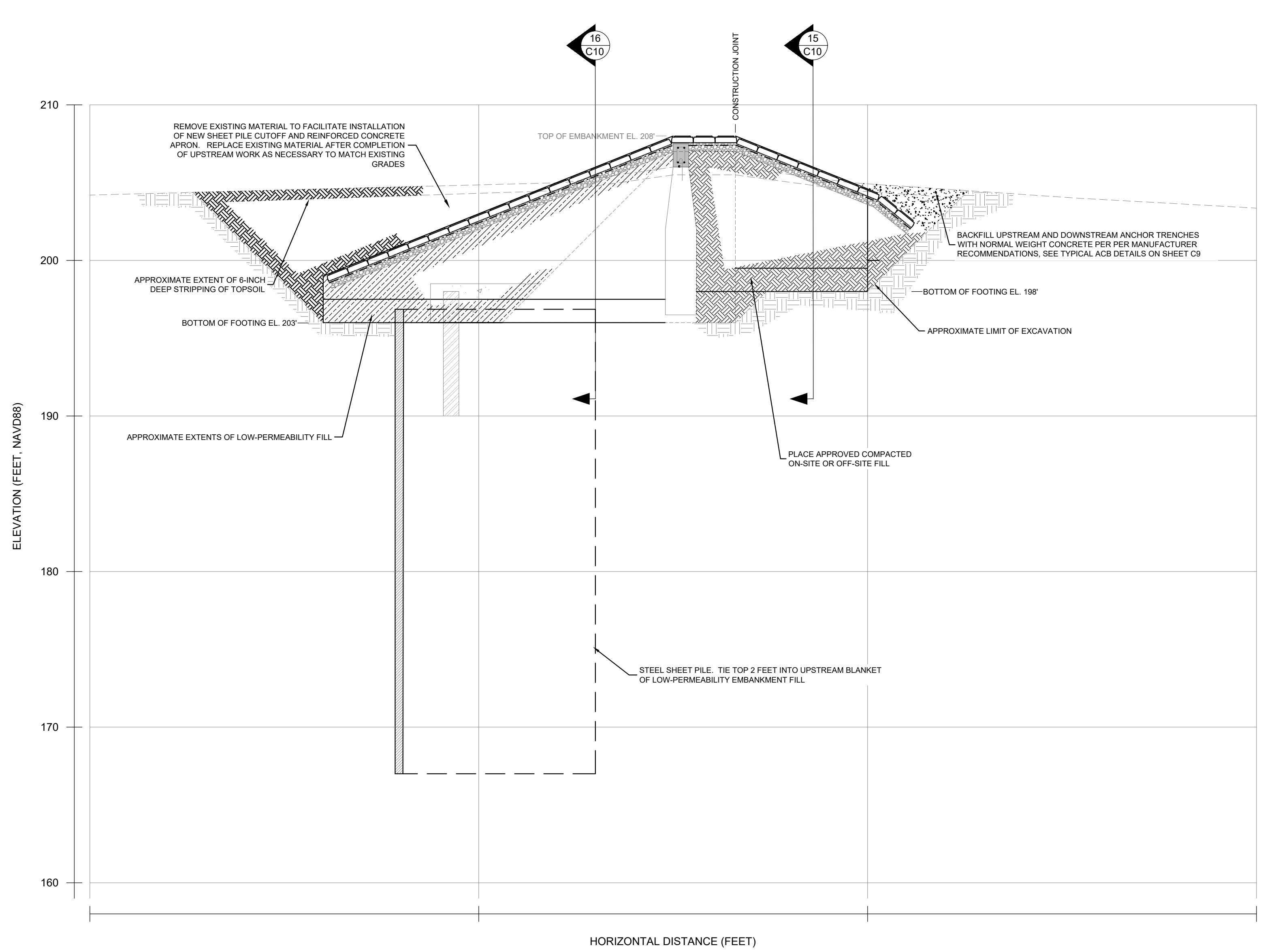
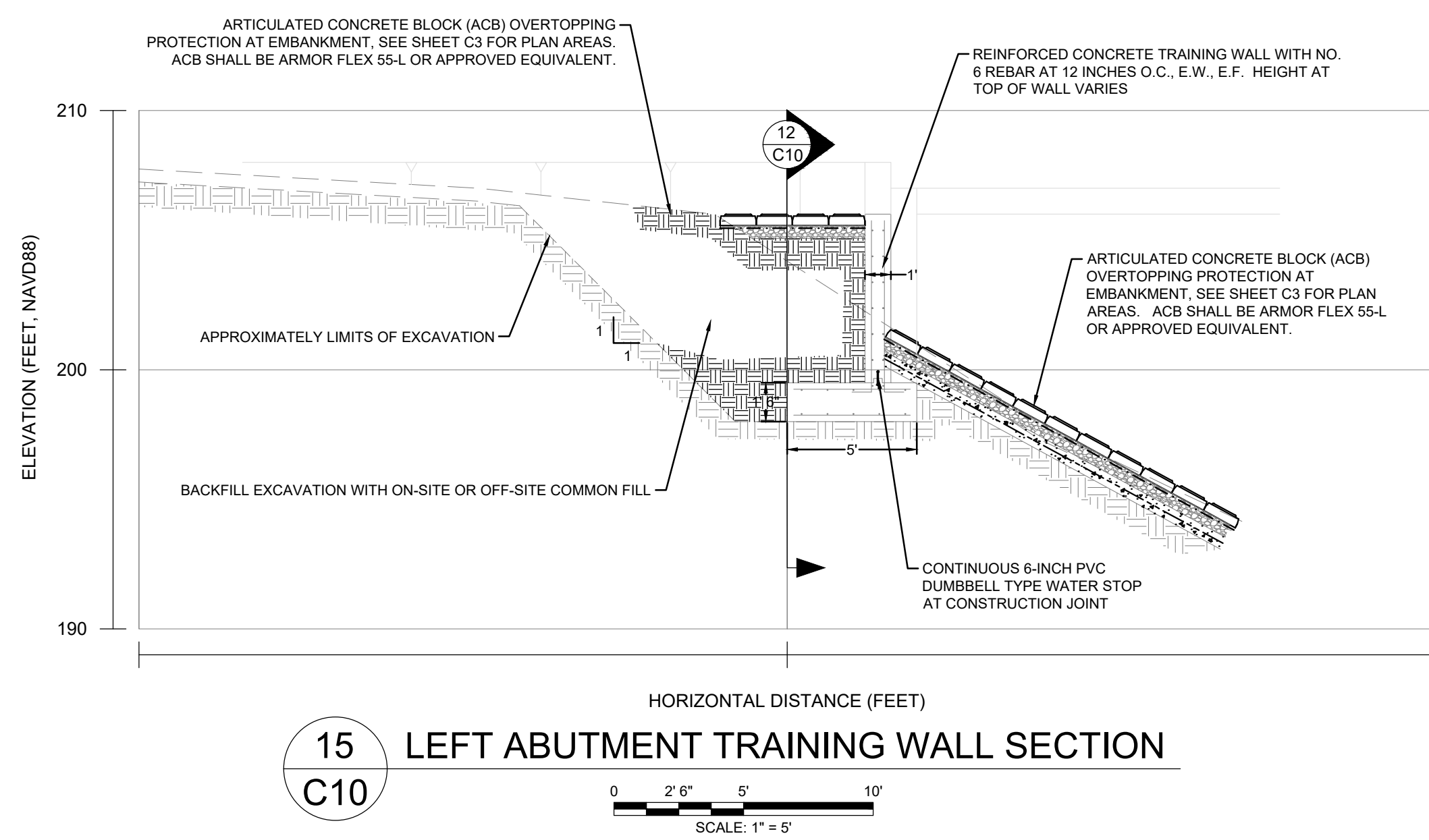
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**BOGUE BROOK RESERVOIR DAM  
REHABILITATION PROJECT**  
MONTVILLE, CONNECTICUT

**LEFT ABUTMENT TRAINING WALL SECTIONS,  
AND ACB DETAILS**

PREPARED BY: <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: THE CITY OF NEW LONDON
PROJ MGR: JDA DESIGNED BY: CBN DATE: 5/22/2017	REVIEWED BY: JDA DRAWN BY: CBN/SMH PROJECT NO: 01.0172560.0
CHECKED BY: PHB SCALE: AS NOTED REVISION NO:	SHEET <b>C9</b>

06/22/2018



NOTES: THE PROPOSED UPSTREAM SHEET PILE CUTOFF WALL SHALL BE INSTALLED TO PROVIDE A CONTINUOUS UPSTREAM SEEPAGE CUTOFF FOR THE FULL LENGTH OF THE DAM. SHEET PILE SHALL TRANSITION BETWEEN THE UPSTREAM CONCRETE APRON, NEW CONCRETE TRAINING WALLS, AND UPSTREAM LOW PERMEABILITY EMBANKMENT FILL SUCH THAT NO GAPS OR "WINDOWS" EXIST IN THE UPSTREAM SEEPAGE CUTOFF.

12 LEFT ABUTMENT TRAINING WALL ELEVATION SECTION  
C10

16 LEFT ABUTMENT TRAINING WALL SECTION  
C10

2	ISSUED FOR BIDDING	CBN	6/22/18
1	RE-ISSUED FOR PERMITS	CBN	2/12/18
NO.	ISSUE/DESCRIPTION	BY	DATE

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**BOGUE BROOK RESERVOIR DAM  
REHABILITATION PROJECT  
MONTVILLE, CONNECTICUT**

**RIGHT ABUTMENT TRAINING WALL SECTIONS AND DETAILS**

PREPARED BY:	<b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:	THE CITY OF NEW LONDON
PROJ MGR:	JDA	REVIEWED BY:	JDA
DESIGNED BY:	CBN	DRAWN BY:	CBN/SMH
DATE:	5/22/2017	PROJECT NO:	01.0172560.0
CHECKED BY:	PHB	SCALE:	AS NOTED
		REVISION NO.	

SHEET  
**C10**

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GZA GEOENVIRONMENTAL, INC.  
06/22/2018