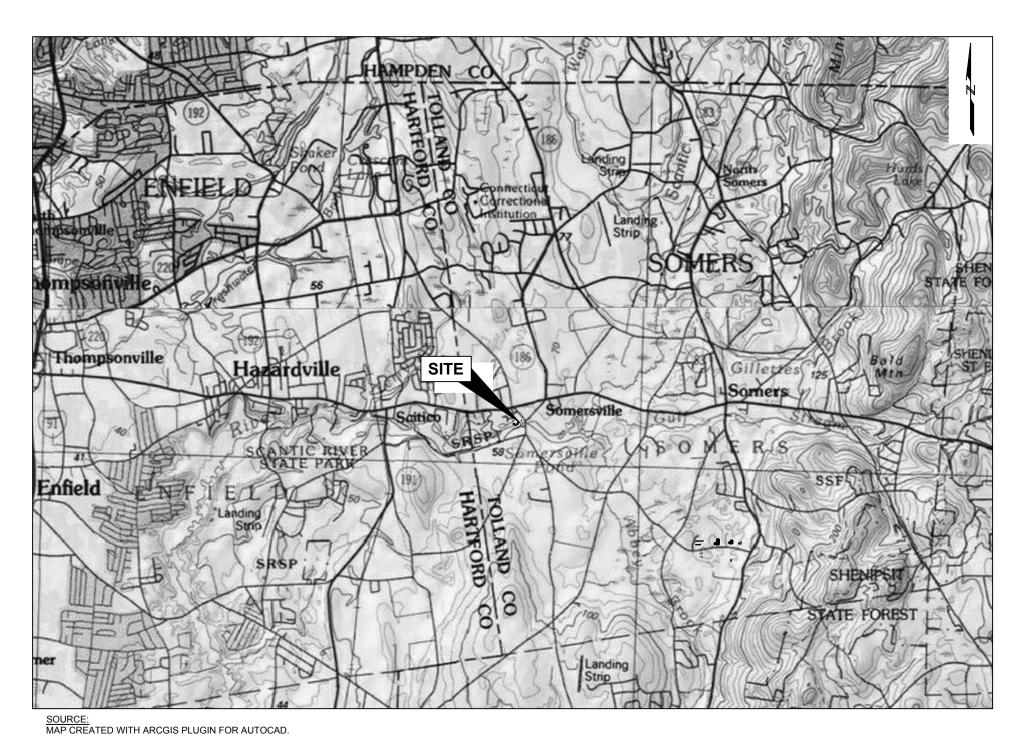
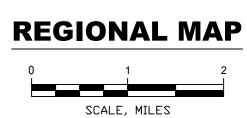
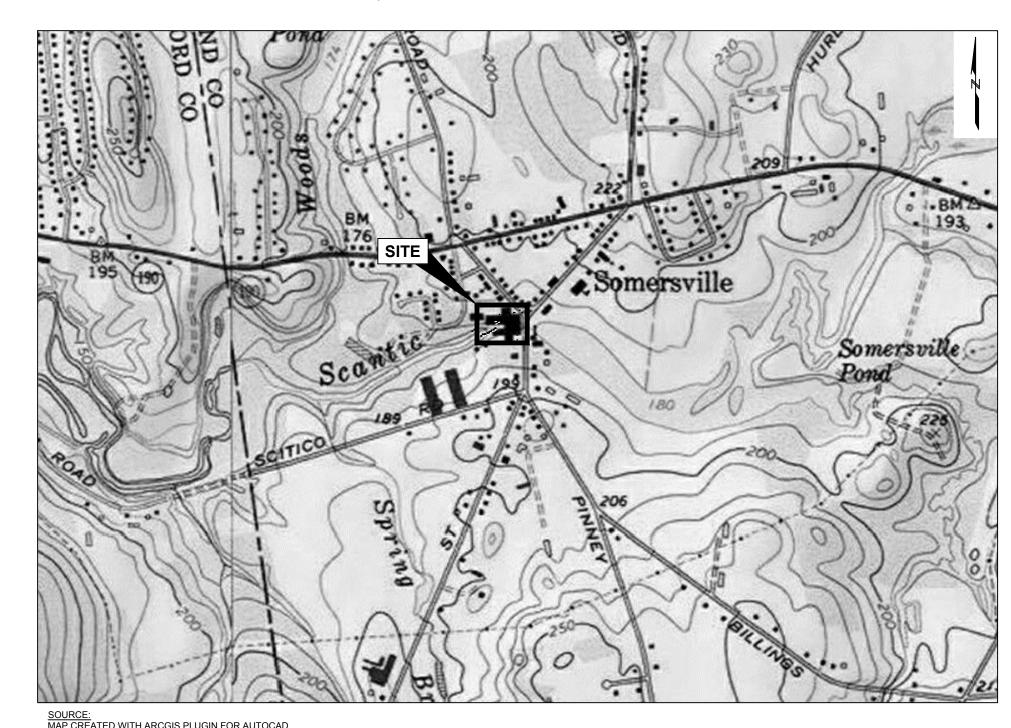
## DEMOLITION AND SITE RESTORATION

# FORMER SOMERSVILLE MILL FACILITY SOMERS, CONNECTICUT







#### SITE LOCATION





## TOWN OF SOMERS SOMERS, CONNECTICUT



PROJECT NUMBER: 1610349
APRIL 2017

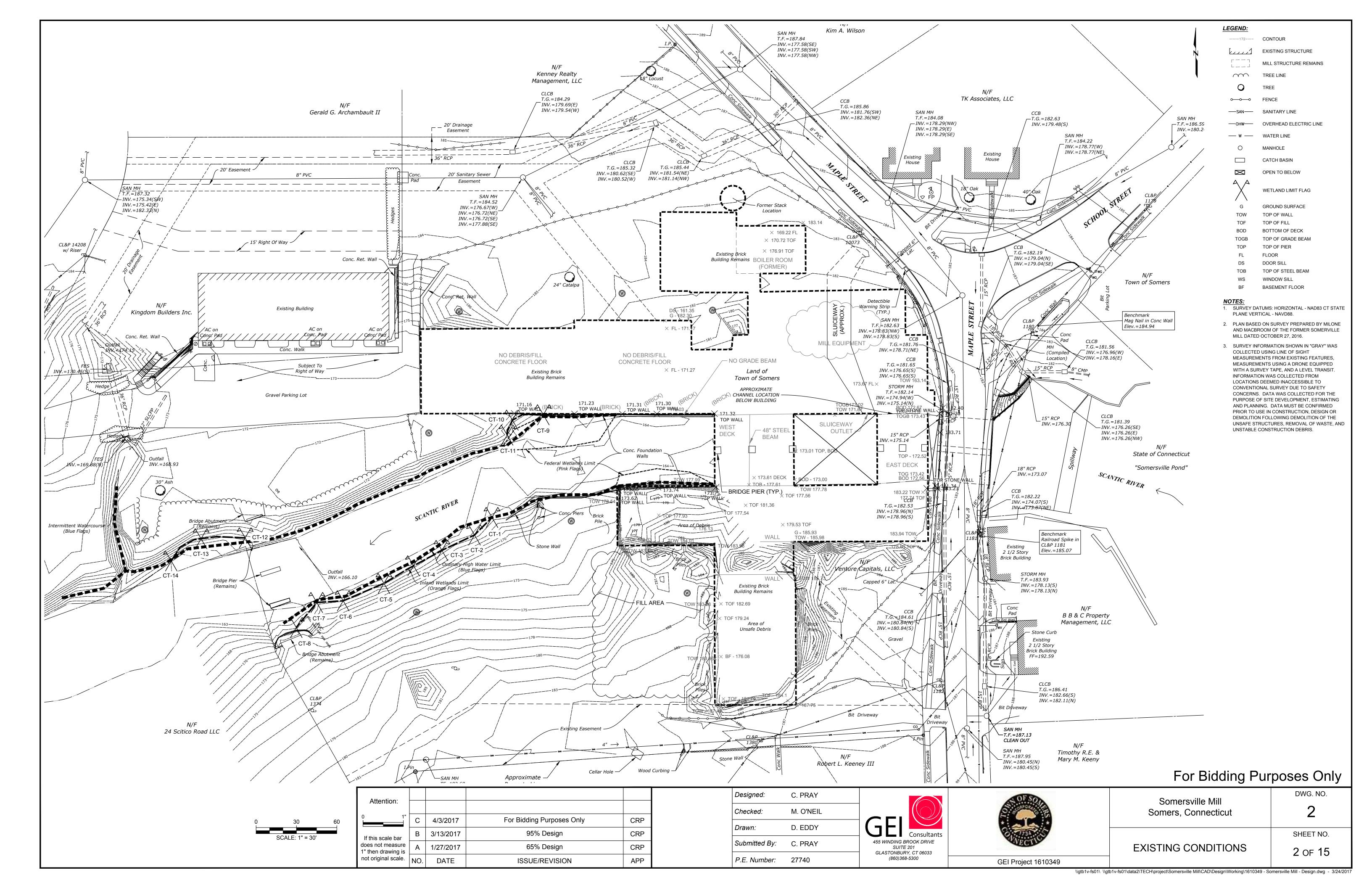
#### SCHEDULE OF DRAWINGS

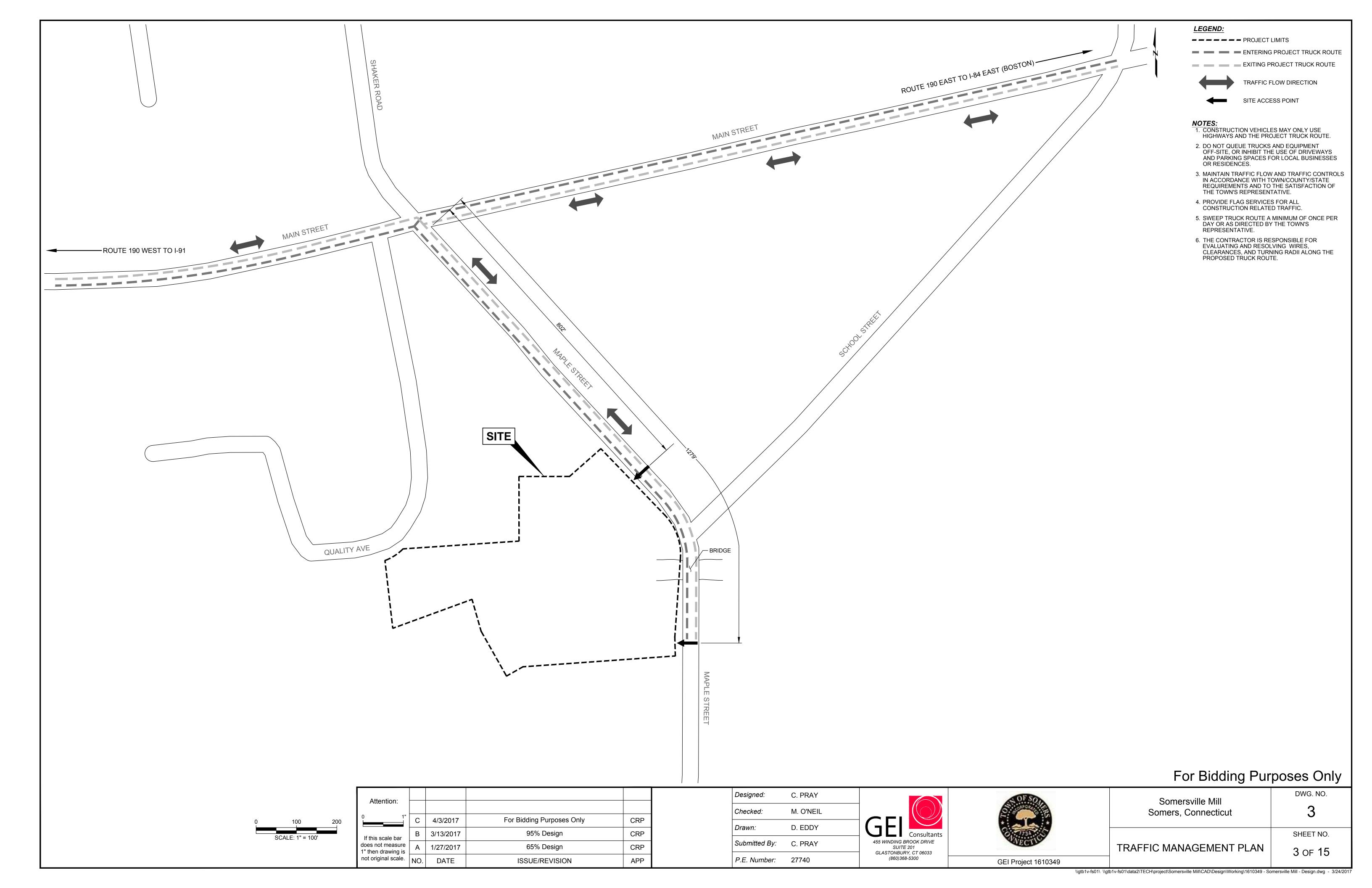
- 1 TITLE SHEET
- **2 EXISTING CONDITIONS PLAN**
- 3 TRAFFIC MANAGEMENT PLAN
- 4 SEDIMENT AND EROSION CONTROL PLAN
- **5 MATERIAL SALVAGE PLAN**
- **6 DEMOLITION PLAN**
- 7 MATERIAL DISPOSAL FLOW CHART
- **8 RIVER BYPASS AND CLEANING PLAN**
- 9 EXISTING BULKHEAD CROSS SECTIONS
- 10 RESTORATION GRADING PLAN
- 11 RESTORATION GRADING CROSS SECTIONS
- 12 RETAINING WALL PLAN AND PROFILES
- 13 RETAINING WALL DETAILS
- 14 RESTORATION COVER PLAN
- 15 SITE MANAGEMENT DETAILS

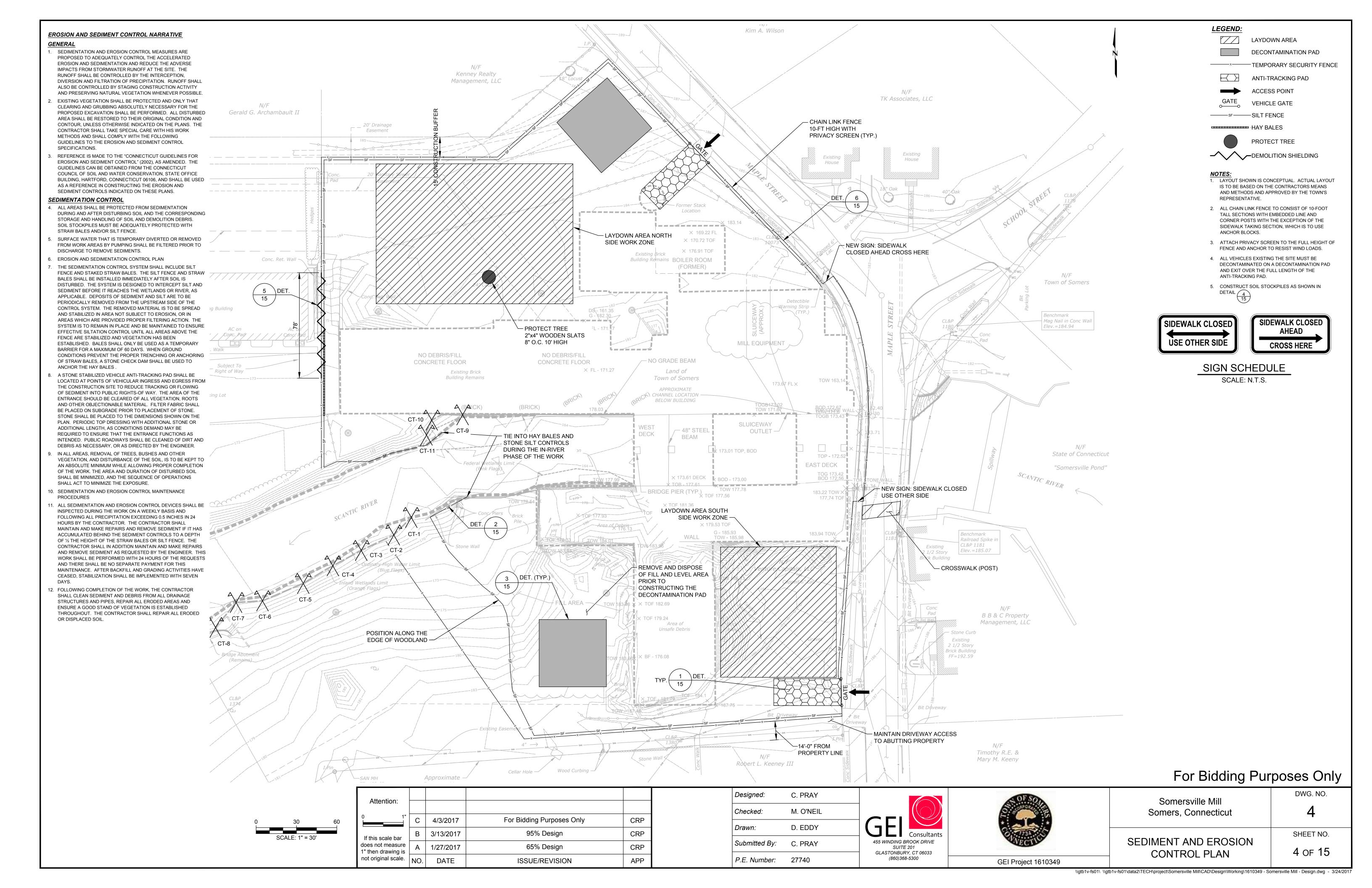
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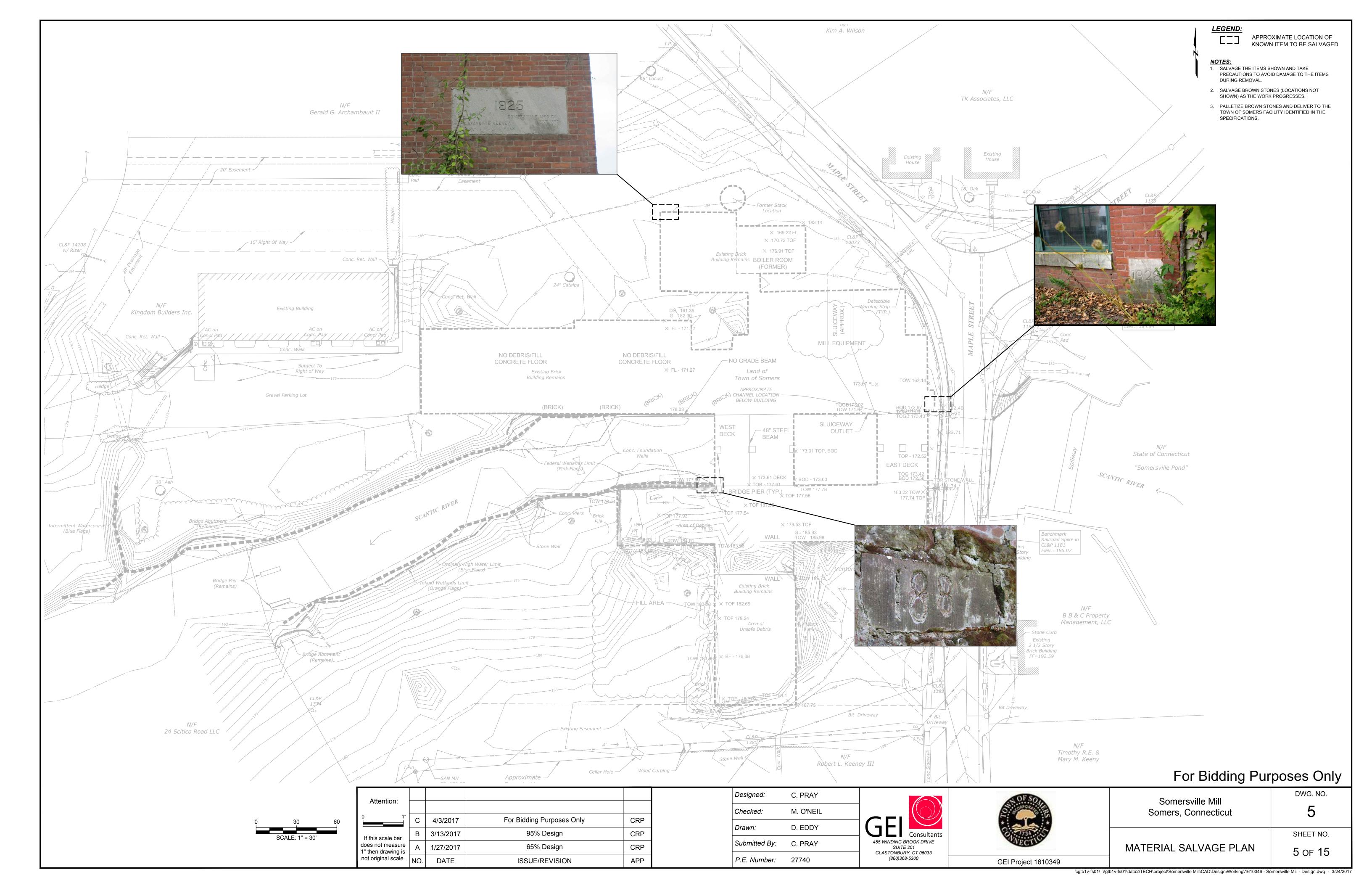
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		PROFESSIONAL ENGINEER LIC. NO. 27740		
		Christopher R. Pray EXP. DATE: 01/31/201	8	
С	4/3/2017	For Bidding Purposes Only	CRP	
В	3/13/2017	95% Design	CRP	
Α	1/27/2017	65% Design	CRP	
NO.	DATE	ISSUE/REVISION	APP	

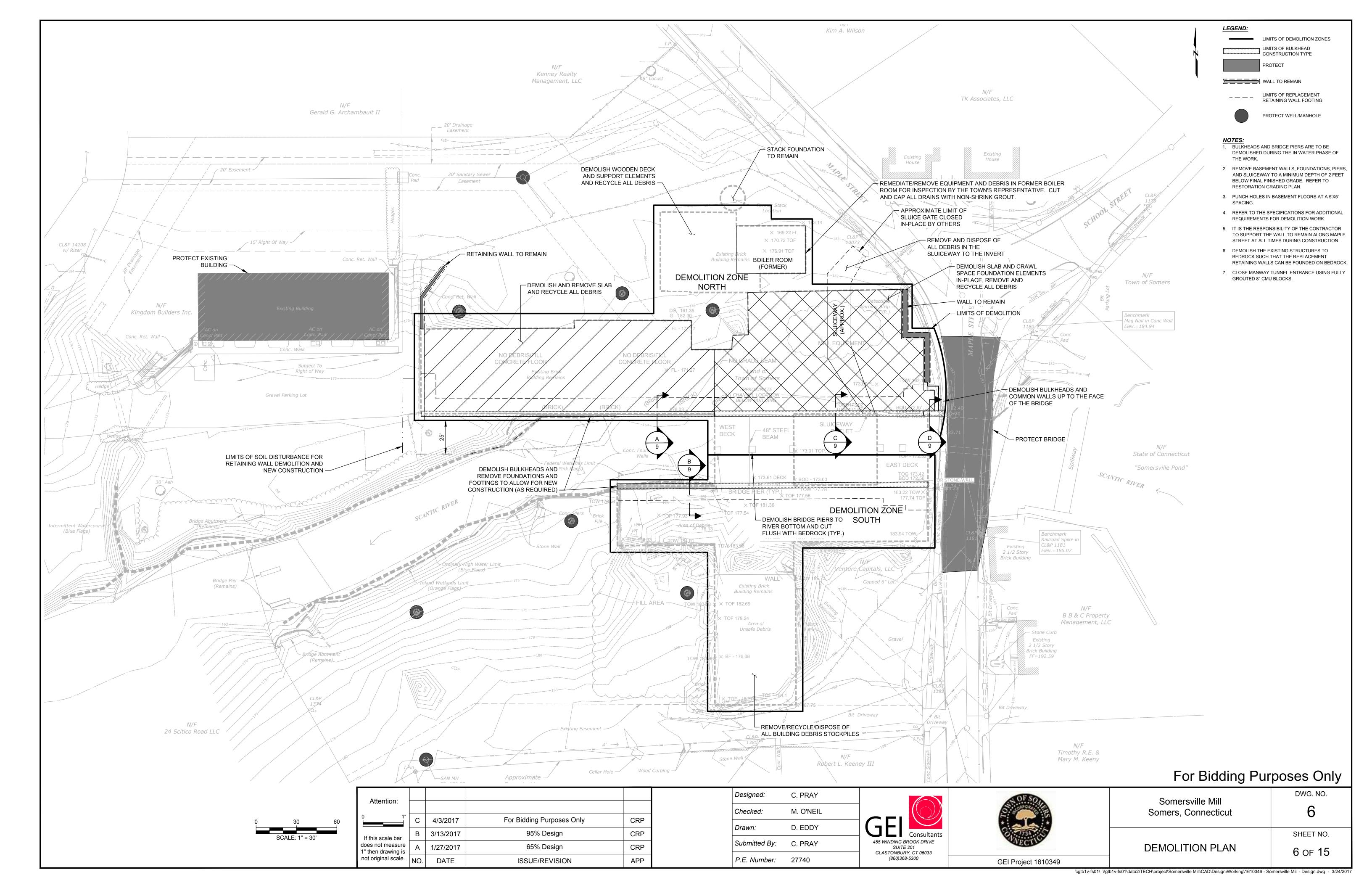
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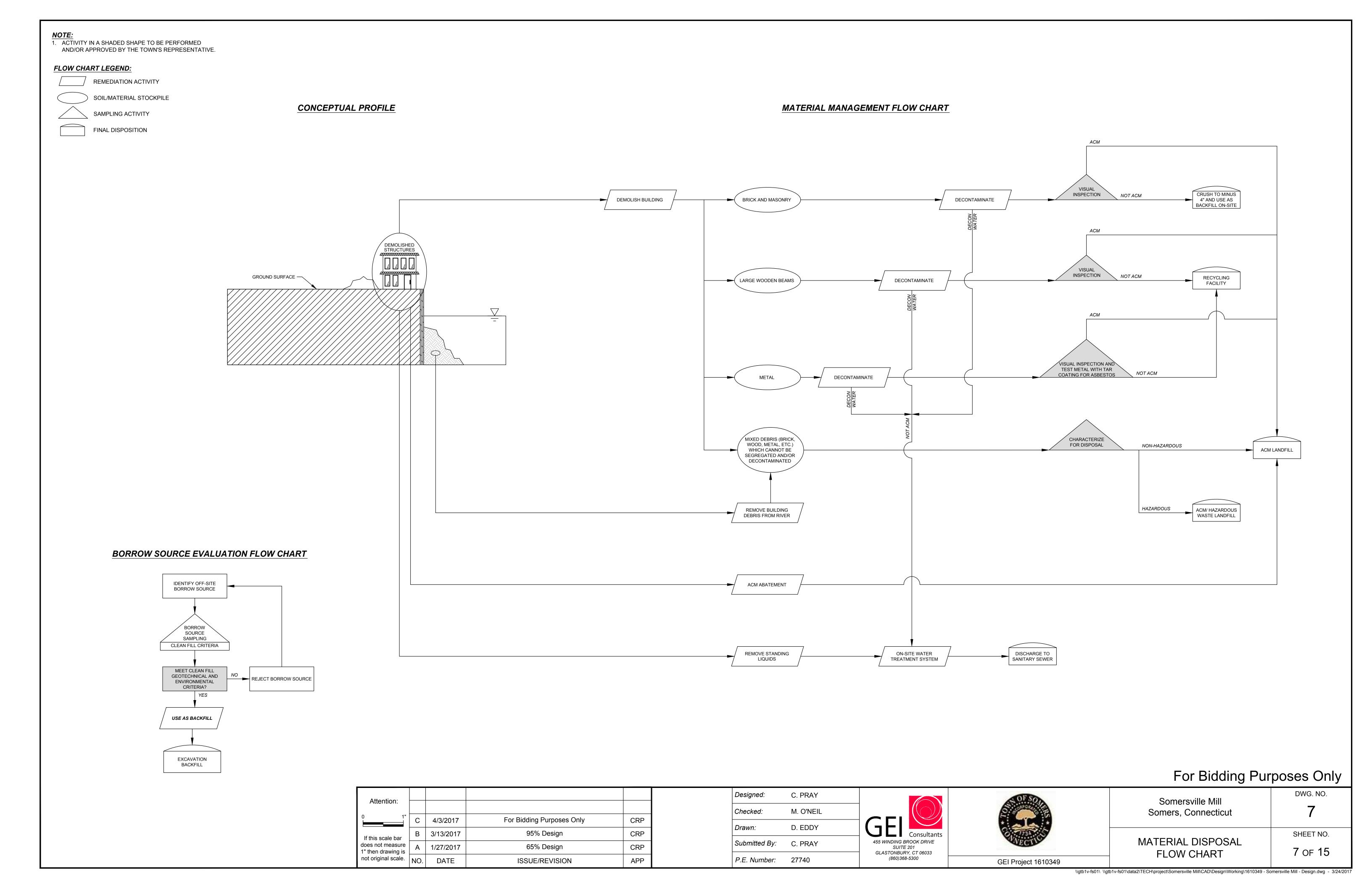


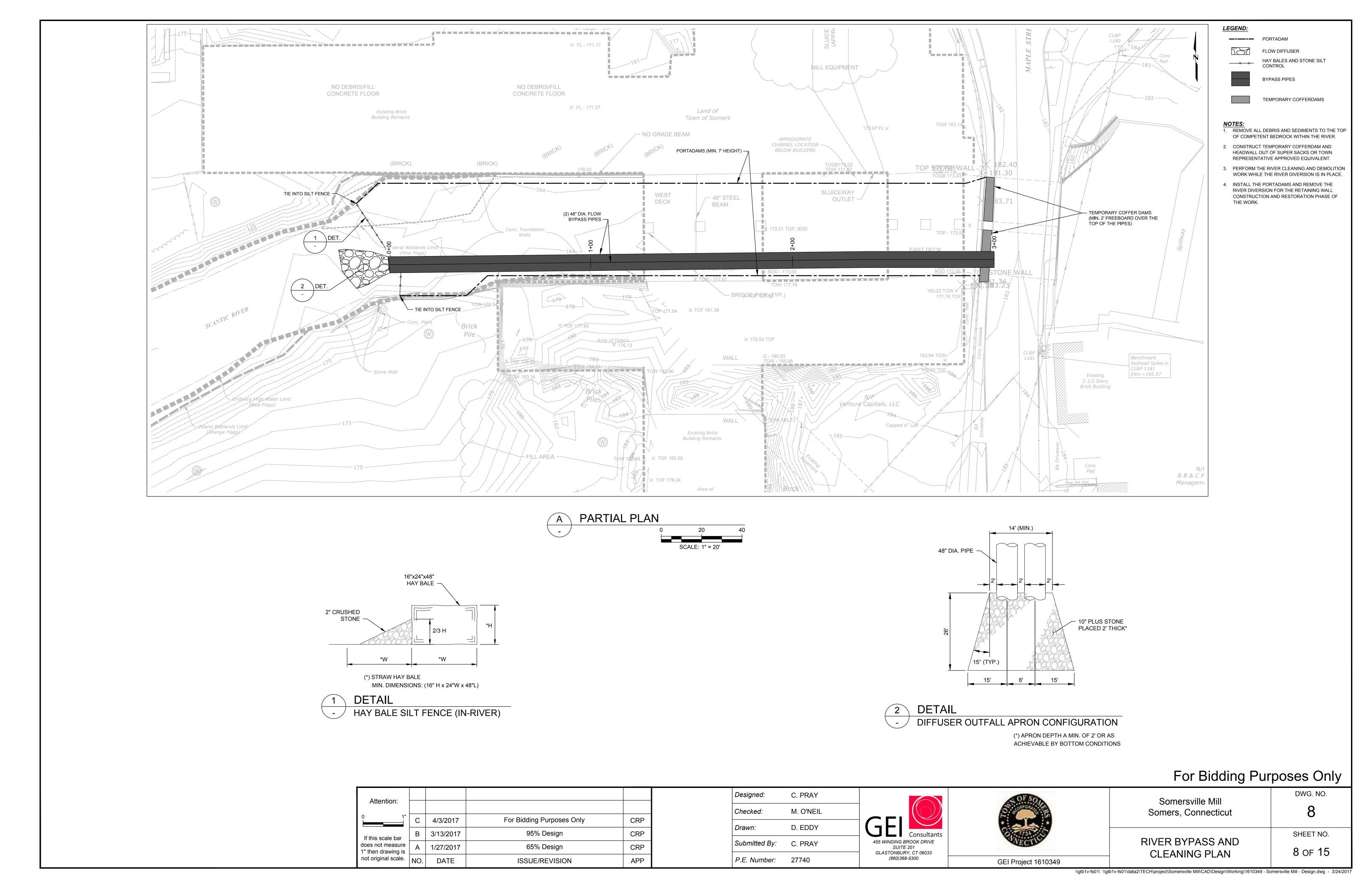


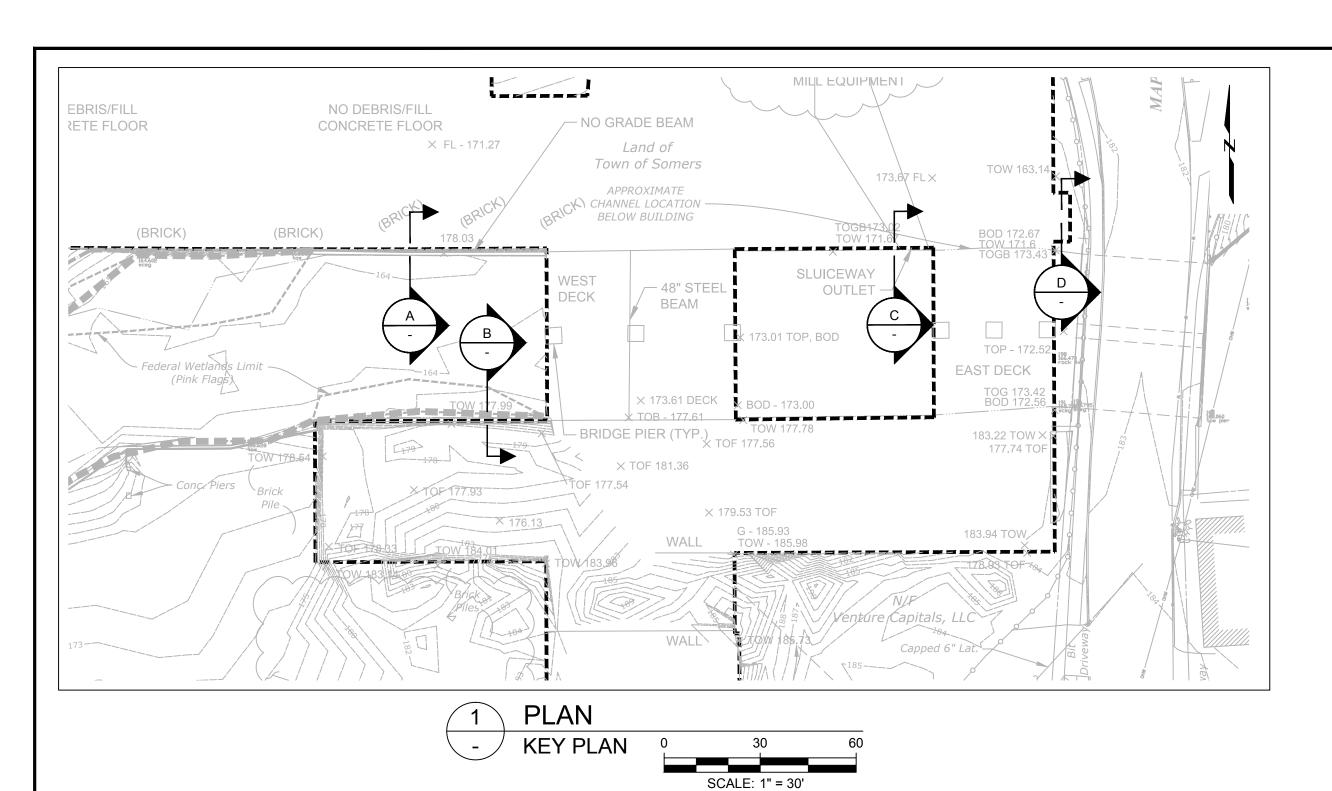


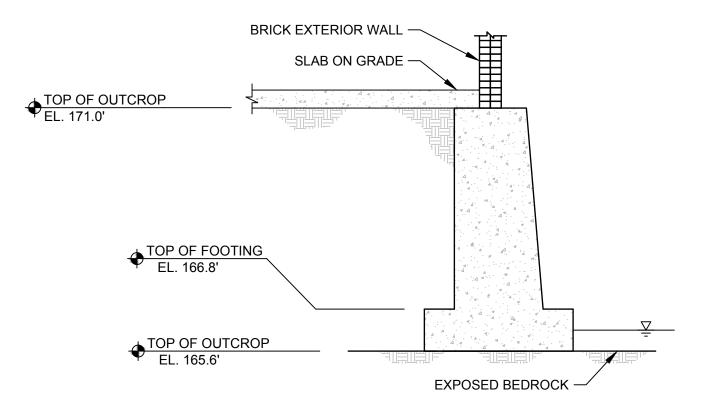




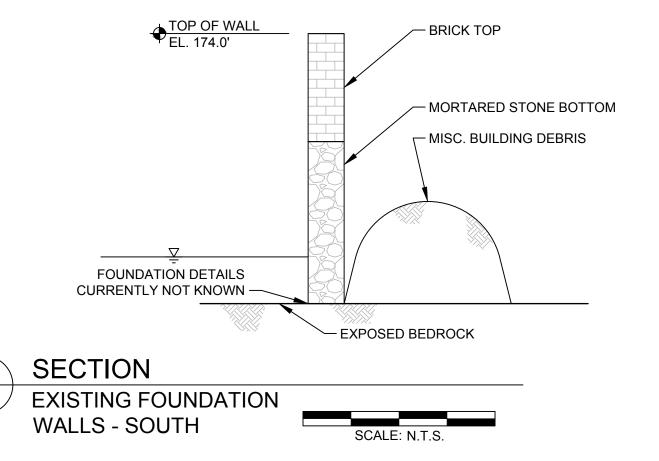


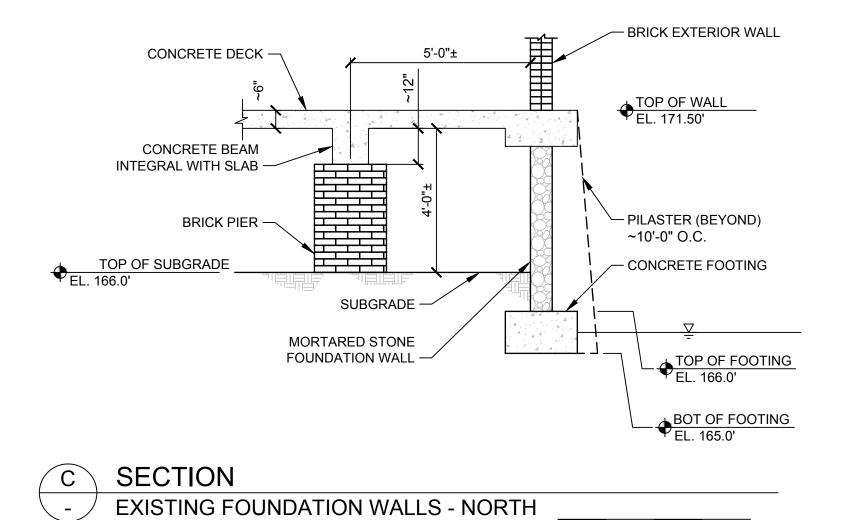


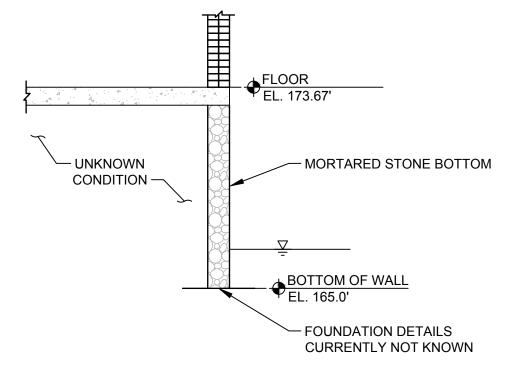




SECTION **EXISTING FOUNDATION** WALLS - NORTH







SECTION EXISTING WALL AT BRIDGE ABUTMENT

#### For Bidding Purposes Only C PRAV Designed:

Attontion				
Attention:				
0 1"	С	4/3/2017	For Bidding Purposes Only	CRP
If this scale bar	В	3/13/2017	95% Design	CRP
does not measure 1" then drawing is	Α	1/27/2017	65% Design	CRP
not original scale.	NO.	DATE	ISSUE/REVISION	APP

Designea:	C. PRAY	
Checked:	M. O'NEIL	
Drawn:	D. EDDY	Consultants
Submitted By:	C. PRAY	455 WINDING BROOK DRIVE SUITE 201
P.E. Number:	27740	GLASTONBURY, CT 06033 (860)368-5300

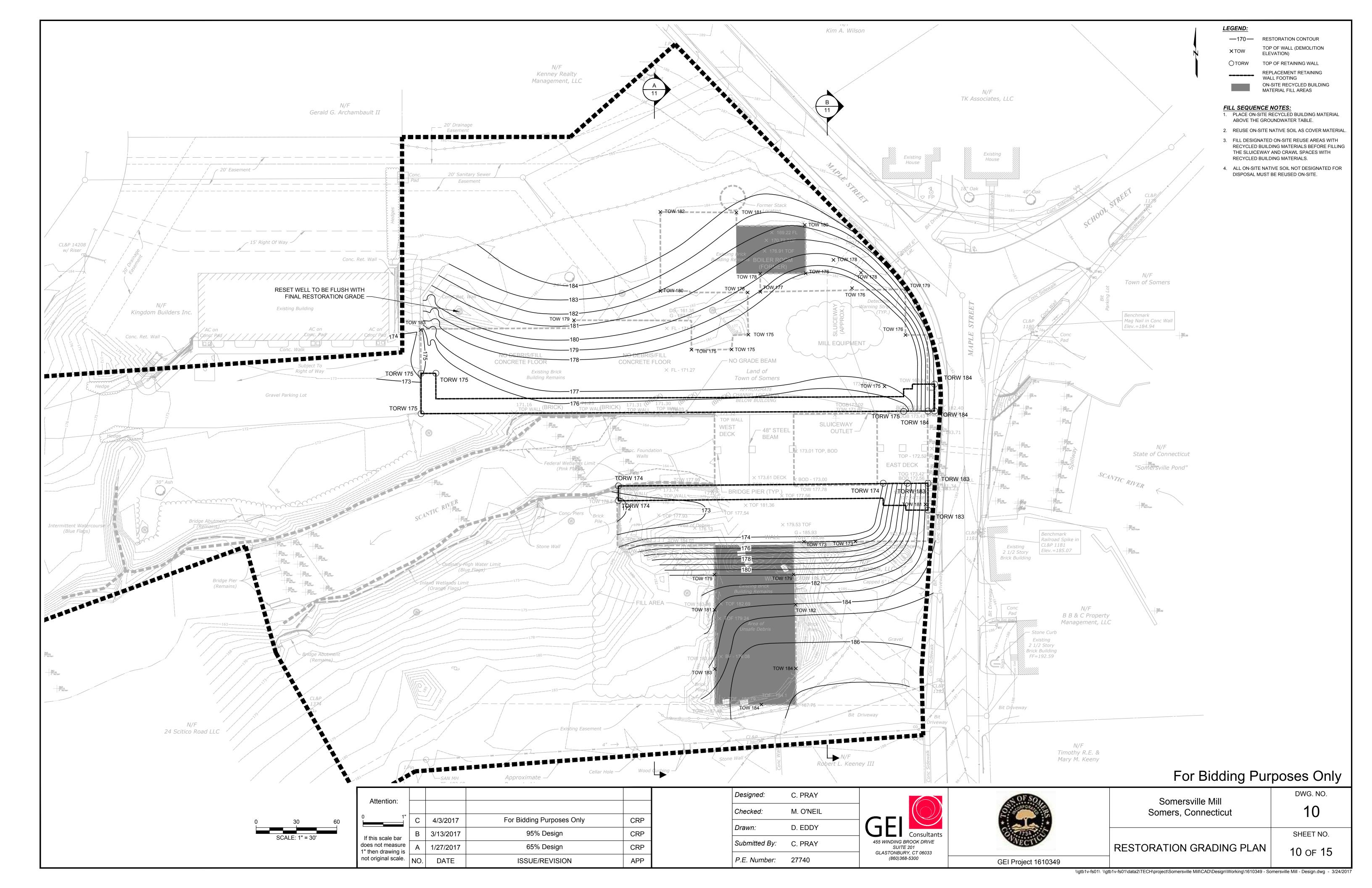


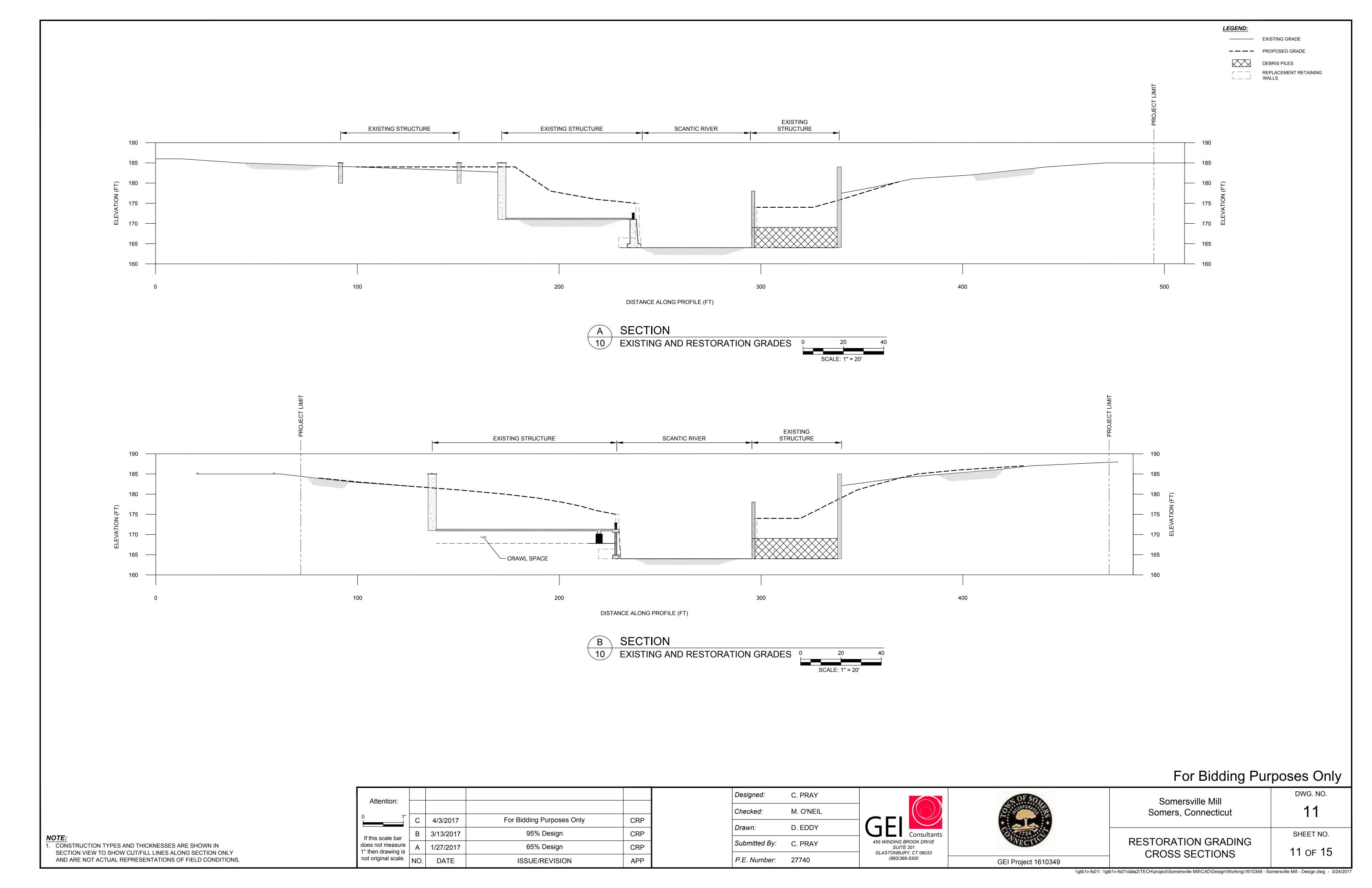
Somersville Mill Somers, Connecticut	DWG. NO.
EVICTIMO DI II MUEAD	SHEET NO.
EXISTING BULKHEAD CROSS SECTIONS	9 of 15

ESTIMATE AS TO CONSTRUCTION TYPE.
2. ELEVATIONS SHOWN IN SECTIONS ARE APPROXIMATE.

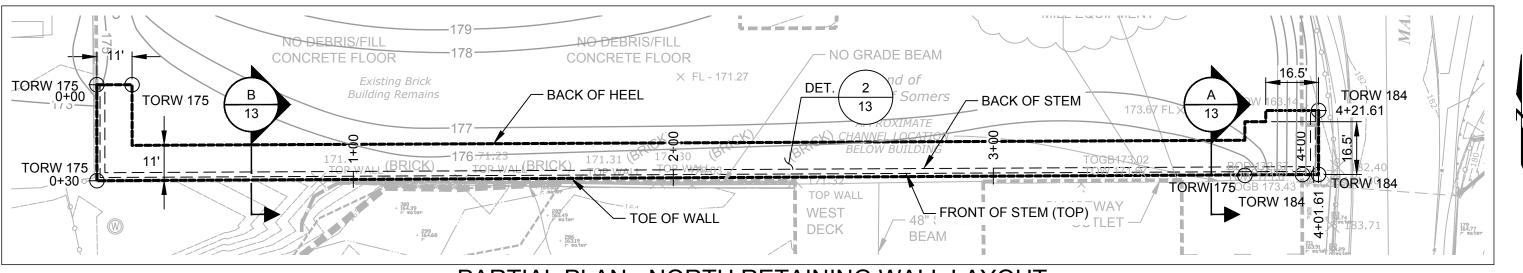
1. DISTANCES WITHOUT MEASUREMENTS WERE NOT ACCESSIBLE AND REPRESENT AN

P.E. Number: 27 GEI Project 1610349 \\gtb1v-fs01\\\\gtb1v-fs01\\\data2\TECH\\project\Somersville Mill\CAD\\Design\Working\1610349 - Somersville Mill - Design.dwg - 3/24/2017

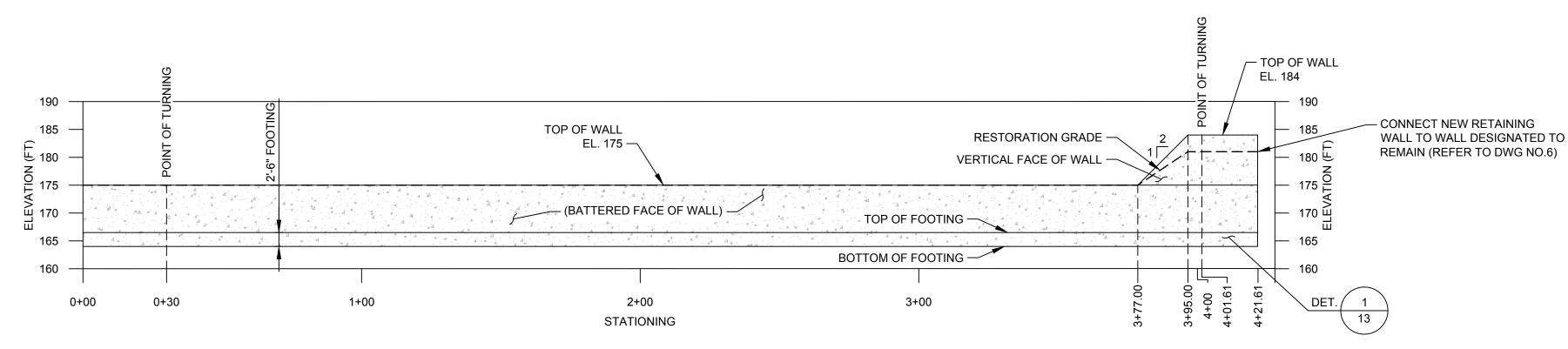




NORTH WALL							
STATION#	NORTHING	EASTING					
0+00	918949.88	1070797.87					
0+30	918919.88	1070797.89					
1+00	918920.28	1070878.02					
2+00	918920.79	1070978.02					
3+00	918921.30	1071078.02					
4+00	918921.81	1071178.02					
4+01.61	918921.82	1071179.63					
4+21.61	918941.82	1071179.63					



PARTIAL PLAN - NORTH RETAINING WALL LAYOUT SCALE: 1" = 30'

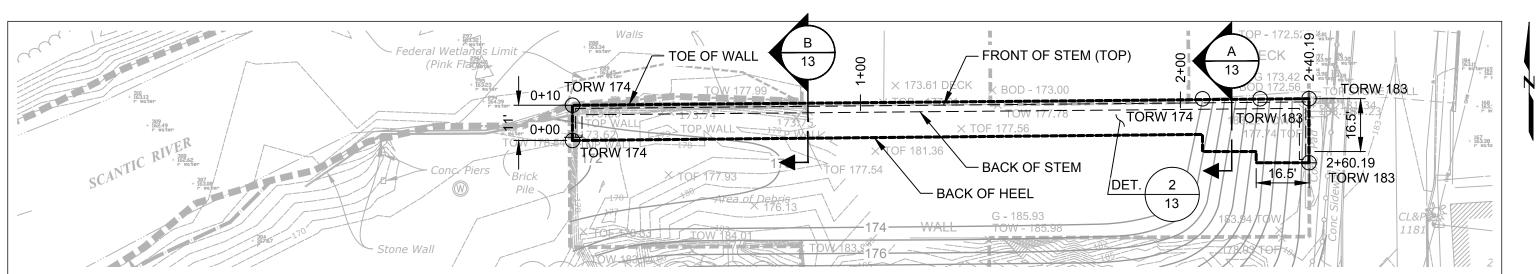


PROFILE - NORTH RETAINING WALL SCALE: 1" = 30'

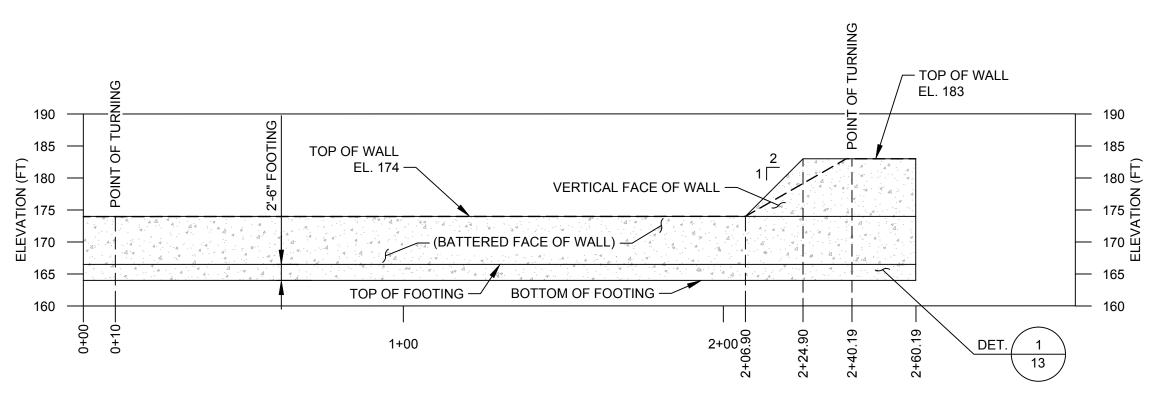
SOUTH WALL							
STATION#	NORTHING	EASTING					
0+00	918856.16	1070944.55					
0+10	918866.16	1070944.55					
1+00	918866.95	1071034.55					
2+00	918867.86	1071134.54					
2+40.19	918868.22	1071174.73					
2+60.19	918848.22	1071174.73					

HORIZONTAL SCALE: 1" = 30'

VERTICAL SCALE: 1" = 15'
NOTE: 2x VERTICAL EXAGGERATION



PARTIAL PLAN - SOUTH RETAINING WALL LAYOUT SCALE: 1" = 30'



Designed:

Checked:

Submitted By:

P.E. Number: 27740

Drawn:

C. PRAY

D. EDDY

C. PRAY

PROFILE - SOUTH RETAINING WALL SCALE: 1" = 30'

not original scale. NO. DATE ISSUE/REVISION APP

M. O'NEIL 455 WINDING BROOK DRIVE SUITE 201 GLASTONBURY, CT 06033 (860)368-5300



GEI Project 1610349

For Bidding Purposes Only DWG. NO. Somersville Mill Somers, Connecticut

LEGEND:

----- RESTORATION CONTOUR

TORW TOP OF RETAINING WALL

1. DRAIN HOLES OMITTED FOR CLARITY. 2. ROCK ANCHORS OMITTED FOR CLARITY.

3. ALL TURNING POINTS ARE TO BE 90° ANGLES.

4. PLACE EXPANSION JOINTS AT A MAXIMUM

SPACING OF 25' O.C.

**RETAINING WALL** PLAN AND PROFILES

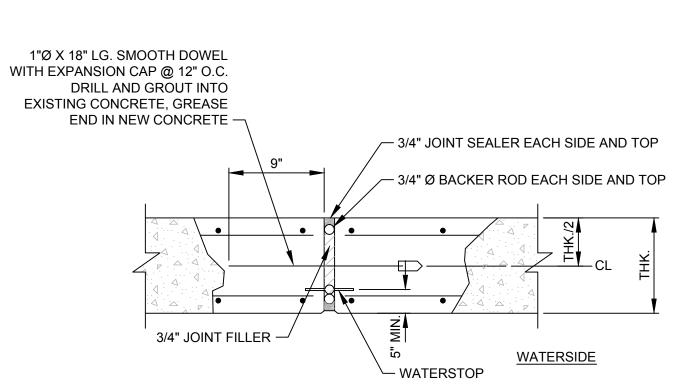
WATERSIDE

12 of 15

SHEET NO.

Attorition.				
Attention:				
0 1"	С	4/3/2017	For Bidding Purposes Only	CRP
If this scale bar	В	3/13/2017	95% Design	CRP
does not measure	Α	1/27/2017	65% Design	CRP

 $\label{thm:cad-loss} $$ \| v-fs01\| \c 0.01 + 0.01$ 



ELIMINATE JOINT SEALER AND BACKER ROD AT BOTTOM OF FOOTINGS AND SLABS.
 FURNISH AND INSTALL SIKAFLEX - 2CNS ELASTOMERIC SEALANT.

#### TYPICAL E.J. AT WALL & FOOTING SCALE: NOT TO SCALE

CL C.J.

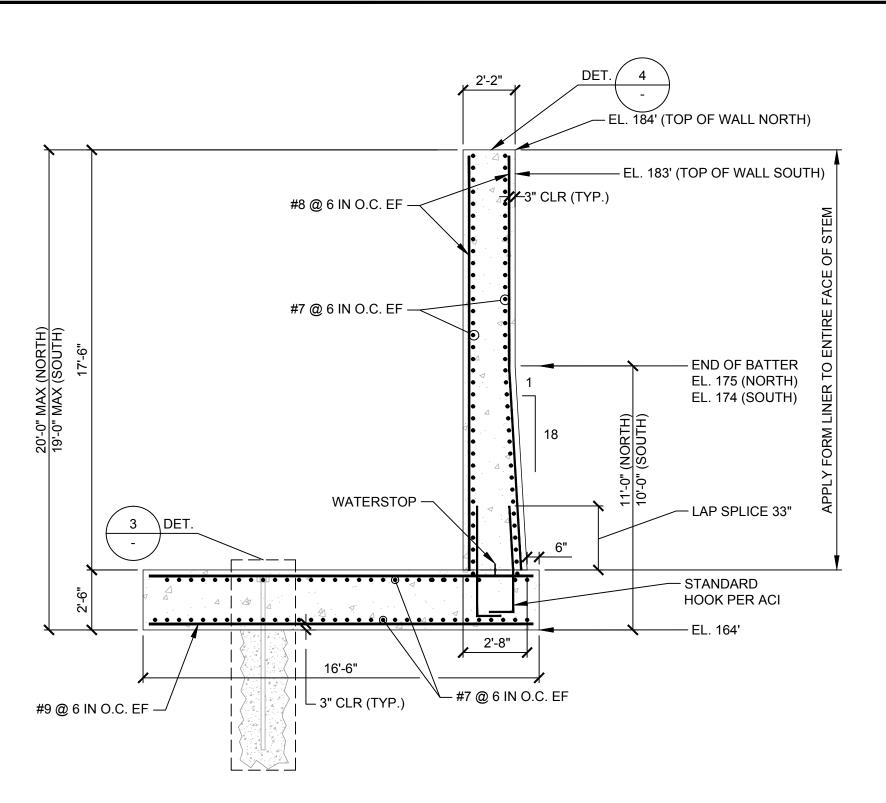
TYPICAL C.J. AT WALL & FOOTING

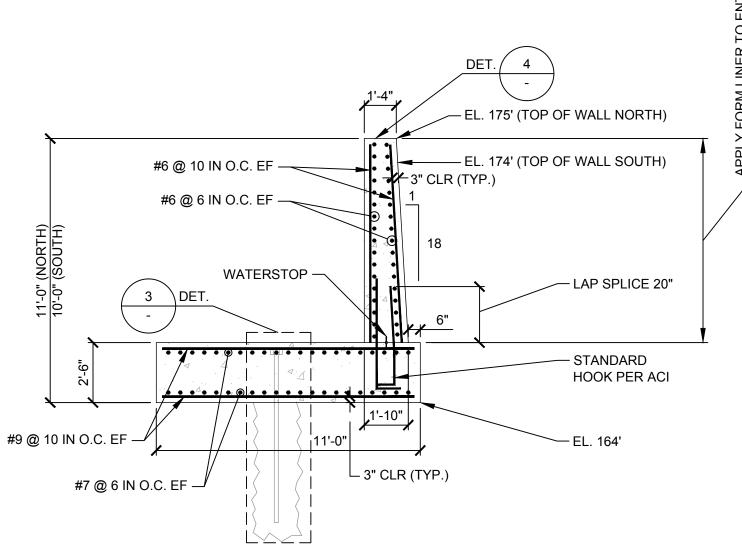
WATERSTOP -

ROUGHEN -

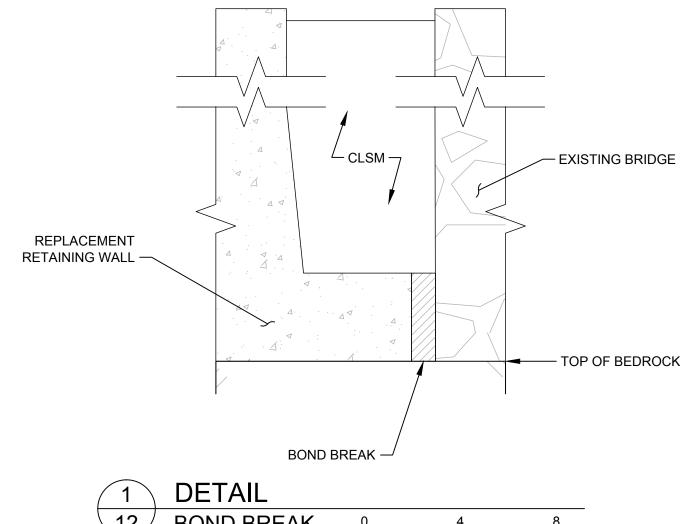
SCALE: NOT TO SCALE

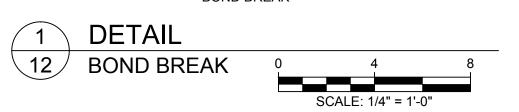
CLASS B SPLICE





SCALE: 1/4" = 1'-0"





1. BOND BREAK TO CONSIST OF FOAM BOARD OR ENGINEER OF RECORD APPROVED EQUIVALENT.



1. SUBMIT CONCRETE MIX DESIGN IN ACCORDANCE WITH SECTION 03 30 00 -

RETAINING WALL SECTION

SCALE: 1/4" = 1'-0"

19-FT AND 20-FT HEIGHT

- CAST-IN-PLACE CONCRETE. 2. SUBMIT SHOP DRAWINGS FOR CONCRETE STRUCTURES IN ACCORDANCE WITH SECTION 03 30 00 - CAST-IN-PLACE CONCRETE.
- 3. SUBMIT SHOP DRAWINGS FOR RAILING INSTALLATION IN ACCORDANCE WITH SECTION 05 52 00 METAL RAILINGS.

1. CONCRETE SHOP DRAWINGS AND PRODUCT DATA TO BE REVIEWED BY

- ENGINEER OF RECORD OR HIS DESIGNATED REPRESENTATIVE. 2. PREPARATION OF RETAINING WALL SUBGRADE TO BE OBSERVED BY ENGINEER OF RECORD OR HIS DESIGNATED REPRESENTATIVE PRIOR TO BUILDING OF
- FORMS OR TYING OF REINFORCING STEEL. 3. REINFORCING STEEL TO BE OBSERVED BY ENGINEER OF RECORD OR HIS
- DESIGNATED REPRESENTATIVE PRIOR TO PLACEMENT OF CONCRETE. 4. LAYOUT AND CONSTRUCTION OF FORMS TO BE OBSERVED BY TOWN'S
- REPRESENTATIVE. 5. CONCRETE MIX DESIGN TO BE REVIEWED BY ENGINEER OF RECORD.

#### PRODUCTS - CONCRETE:

COMPRESSIVE STRENGTH (28-DAY) 5,000 PSI.

SECTION

- 2. NORMAL-WEIGHT AGGREGATE. 3. MAXIMUM SIZE AGGREGATE: 3/4 INCH.
- 4. OTHER REQUIREMENTS PER IN SECTION 03 30 00 CAST IN PLACE CONCRETE.

#### **EXECUTION - CONCRETE:**

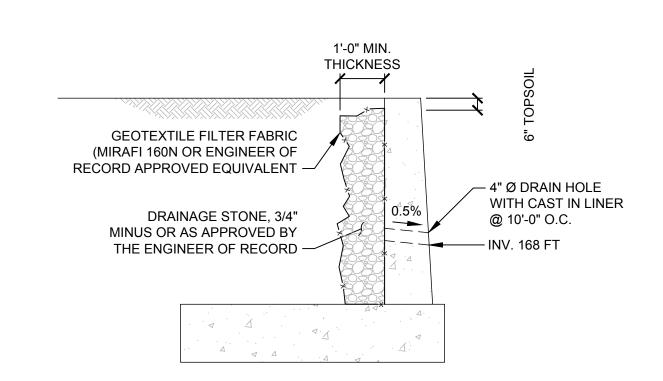
- 1. REMOVE STANDING WATER FROM SUBGRADE BEFORE CONCRETE IS PLACED. 2. CONSTRUCT AND PERFORM ALL OTHER ACTIVITIES RELATED TO THE CONSTRUCTION OF THE STRUCTURE FORMWORK. PLACE REINFORCEMENT AND OTHER EMBEDDED ITEMS. PLACE AND CURE CONCRETE STRIP FORM/REINFORCED CONCRETE CANTILEVER RETAINING WALL IN ACCORDANCE WITH SECTION 03 30 00 - CAST-IN-PLACE CONCRETE.
- 3. HORIZONTAL REINFORCEMENT IS TO BE CONTINUOUS THROUGH TURNING POINTS FOR A FULL CLASS B LAP SPLICE LENGTH ON EACH SIDE.
- 4. STEM REINFORCING TO CONSIST OF SCHEDULE SHOWN IN SECTION A IN THE WALL HEIGHT TRANSITION ZONES.

#### **DRAIN HOLES:**

- 1. INSTALL 4" Ø DRAIN HOLES @ 10'-0" O.C. WITH A MINIMUM OF 0.5% GRADE
- 2. INSTALL DRAIN HOLES @ EL. 168' ALONG THE ENTIRE LENGTH OF WALL. 3. SUBMIT A CUT SHEET FOR THE CAST IN DRAIN HOLE LINER TO THE ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE PRIOR TO INCORPORATING INTO THE

#### WATERSTOP:

- 1. FURNISH ADEKA KM-3030 AND ADEKA ULTRASEAL P-201 WATERSTOP OR
- ENGINEER OF RECORD APPROVAL EQUIVALENT. 2. INSTALL WATERSTOP PER ALL MANUFACTURER RECOMMENDED PROCEDURES AND REQUIREMENTS.



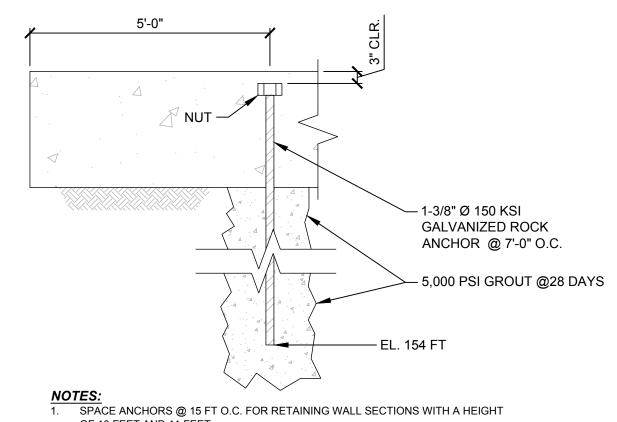
SECTION

**RETAINING WALL SECTION** 

10-FT AND 11-FT HEIGHT



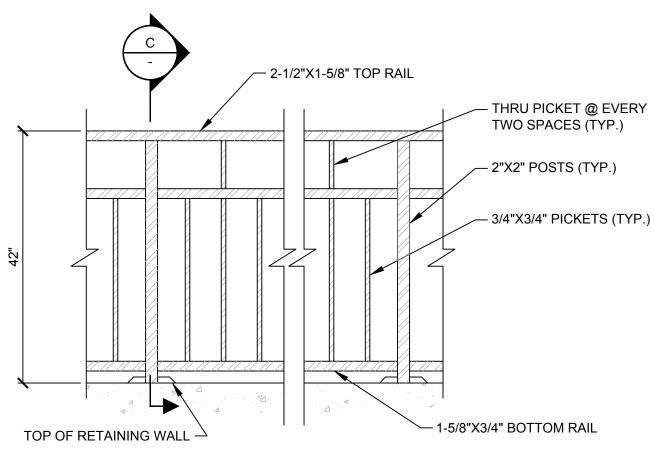
- 1. RETAINING WALL REINFORCEMENT AND ROCK ANCHORS OMITTED FOR CLARITY.
- 2. DRAINAGE STONE TO BE FULLY WRAPPED ON ALL SIDES
- IN GEOTEXTILE WITH A MINIMUM 1' LAP AT ALL SEAMS. 3. STAGGER SPLICES AND LOCATE WEEP HOLES AWAY FROM SPLICES.



- OF 10 FEET AND 11 FEET. 2. SPACE ANCHORS @ 10 FT O.C. FOR RETAINING WALL SECTIONS WITH A HEIGHT OF GREATER THAN 11 FEET.
- DETAIL **ROCK ANCHOR**

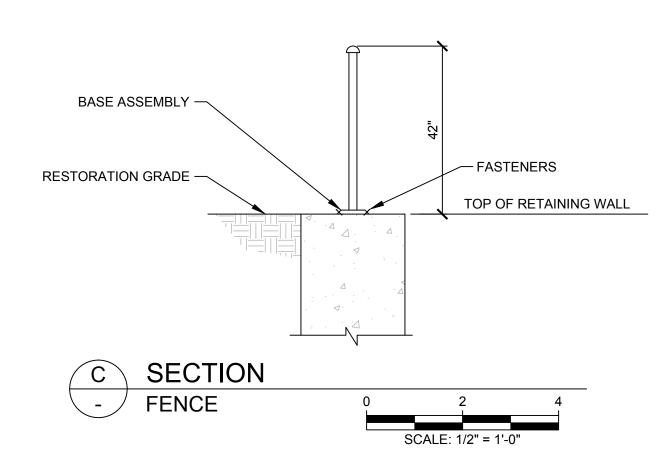
#### **NOTES:**1. RETAINING WALL REINFORCING

STEEL OMITTED FOR CLARITY.



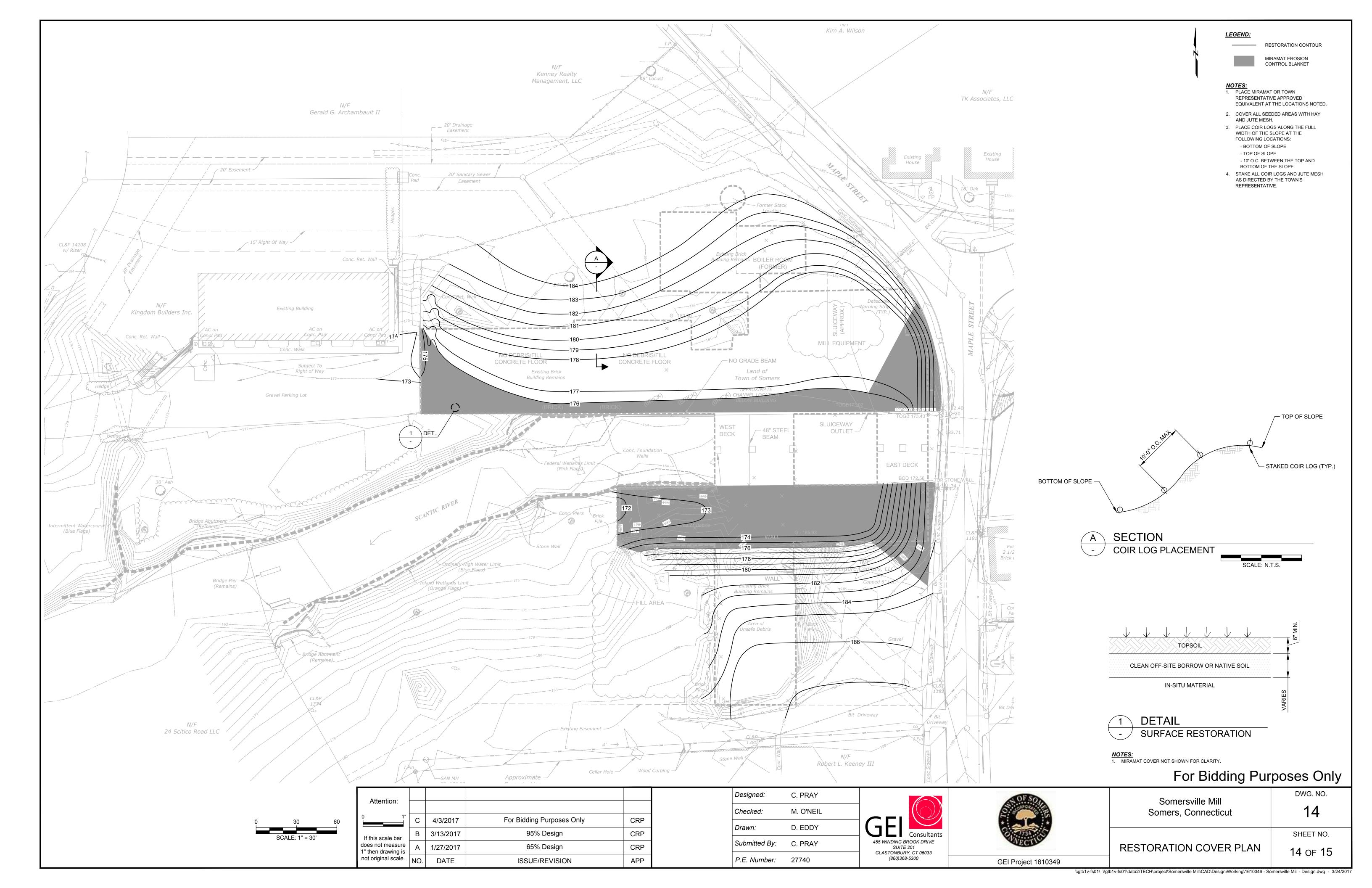
- NOTES:
  1. RAILING SYSTEM SHOWN IS SERIES 9100 ARCHITECTURAL RAILING AS MANUFACTURERED BY SUPERIOR
- ALUMINUM PRODUCTS, INC. 2. STYLE: DOUBLE TOP RAIL WITH THROUGH PICKETS
- 3. COLOR: BLACK
- 4. MANUFACTURER PARTS LIST: A. 901 TOP RAIL
- B. 903 BOTTOM RAIL
- C. 2" SQUARE POSTS
- 3/4" SQUARE PICKETS 968 BASE ASSEMBLY
- 5. INSTALL THE RAILING SYSTEM SHOWN ALONG THE ENTIRE LENGTH OF THE RETAINING WALLS ON THE NORTH AND SOUTH SIDES OF THE RIVER (INCLUSIVE OF HEIGHT TRANSITION ZONES.)
- 6. ANY SUBSTITUTIONS TO THE RAILING SYSTEM SHOWN MUST BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE.

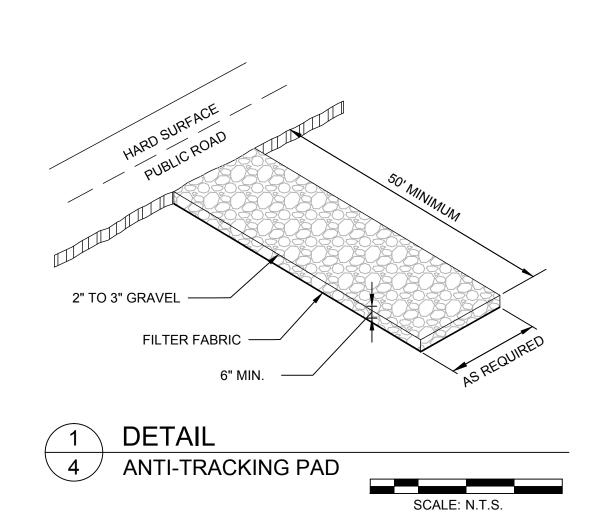


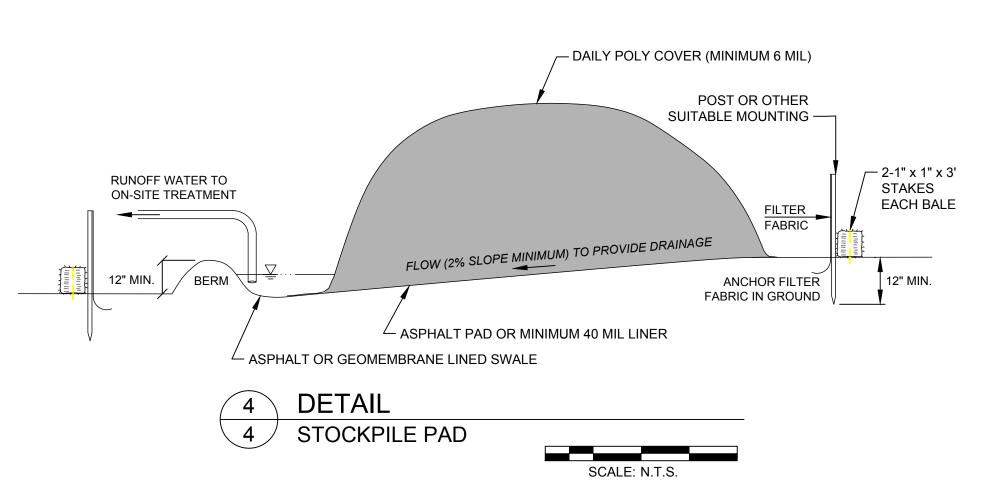


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	Attention:				Designed: Checked:	C. PRAY M. O'NEIL			Somersville Mill Somers, Connecticut	DWG. NO.
	0 1" C 4	4/3/2017	For Bidding Purposes Only	CRP			CEI		Somers, Commedicat	10
	If this scale bar	3/13/2017	95% Design	CRP	Drawn:	D. EDDY	Consultants			SHEET NO.
(		/27/2017	65% Design	CRP	Submitted By:	C. PRAY	455 WINDING BROOK DRIVE SUITE 201 GLASTONBURY, CT 06033		RETAINING WALL DETAILS	13 of 15
		DATE	ISSUE/REVISION	APP	P.E. Number:	27740	(860)368-5300	GEI Project 1610349	DETAILS	10 01 10

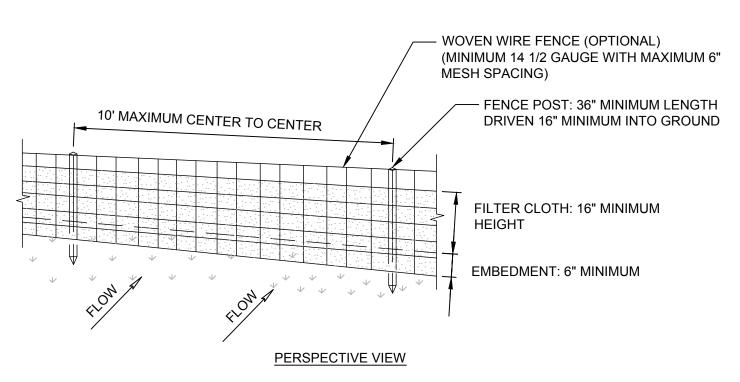


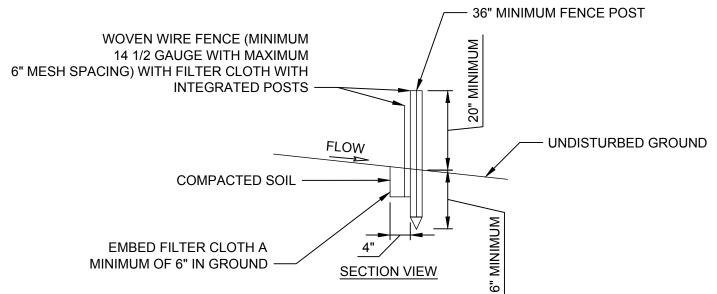




#### PAD NOTES:

- 1. SOIL/DEBRIS STOCKPILE PAD DESIGN IS CONCEPTUAL. FINAL DESIGN WILL MEET THE INTENT OF THE CONCEPT, AS APPROVED BY THE TOWN'S REPRESENTATIVE.
- 2. STOCKPILE PAD LOCATIONS MUST BE APPROVED IN ADVANCE BY THE TOWN'S REPRESENTATIVE.
- 3. DO NOT CONSTRUCT STOCKPILES WITHIN 50 FEET OF THE WETLAND AREA.





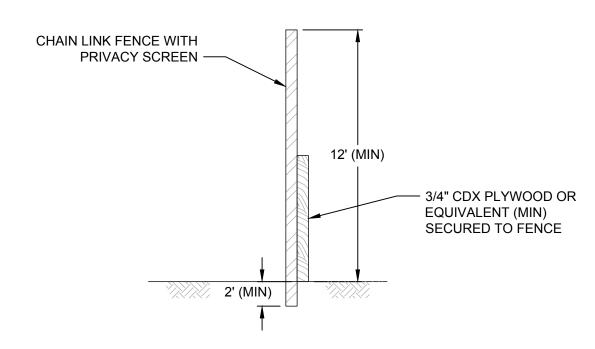
### DETAIL

#### WOVEN SILT FENCE / TURTLE BARRIER



#### **WOVEN SILT FENCE NOTES:**

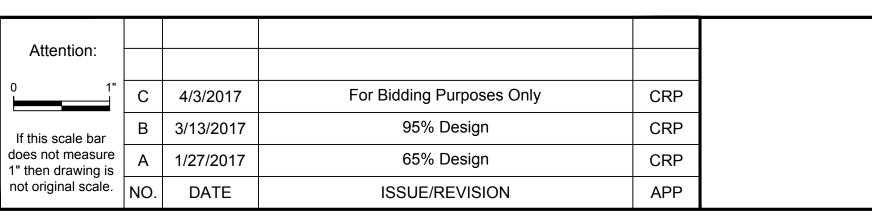
- 1. FASTEN WOVEN WIRE FENCE SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- 2. FASTEN FILTER CLOTH SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24-INCHES AT TOP AND MID-SECTION. FENCE SHALL BE WOVEN WIRE, 14 1/2 GAUGE, 6-INCH MAXIMUM MESH OPENING.
- 3. OVERLAP ADJACENT FILTER CLOTH SIX INCHES AND FOLD. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
- 4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
- 5. PERFORM MAINTENANCE AS NEEDED AND REMOVE MATERIAL WHEN "BULGES" DEVELOP.
- 6. FILTER FABRIC WITH INTEGRATED STAKES MAY BE USED INSTEAD OF WIRE FENCE.

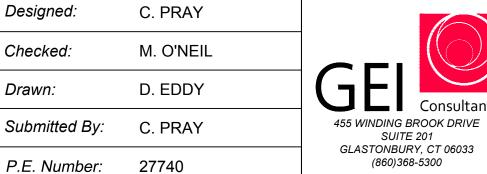




#### **DEMOLITION SHIELDING NOTES:**

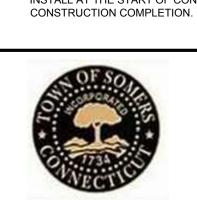
- 1. CONSTRUCT DEMOLITION SHIELD WITH 11 GAUGE FABRIC (ASTM A-392) AND 16 GAUGE FRAMEWORK (>2").
- 2. THE REQUIREMENTS FOR SHIELDING ARE TO BE REGARDED AS A MINIMUM AND THE CONTRACTOR IS RESPONSIBLE FOR TAKING ALL NECESSARY MEASURES TO PROTECT ADJACENT STRUCTURES/FEATURES FROM DAMAGE.





SCALE: N.T.S.





GEI Project 1610349

#### DWG. NO. Somersville Mill 15 Somers, Connecticut

SCALE: N.T.S.

SITE MANAGEMENT DETAILS

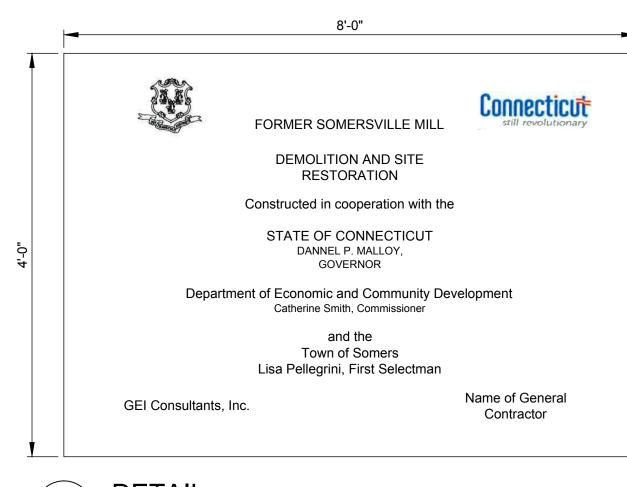
SCALE: N.T.S.

ASPHALT PAD 3" MINIMUM THICKNESS - 2" MINIMUM MOUNTABLE CURB 6" MINIMUM BARRIER CURB ASPHALT PAD 6" MINIMUM BARRIER CURB DIRECTION OF DRAINAGE (TYPICAL) -SIZE FOR LARGEST PIECE OF CONSTRUCTION EQUIPMENT 2" MINIMUM MOUNTABLE CURB <u>PLAN</u> ASPHALT PAD 3" MINIMUM THICKNESS DECONTAMINATION WATER FLOW (2% SLOPE MINIMUM) TO ON-SITE TREATMENT 6" MINIMUM CONCRETE OR SEALED SUMP **BITUMINOUS CURB** SECTION A-A **DETAIL** 

#### **EQUIPMENT DECONTAMINATION PAD**

**DECONTAMINATION NOTES:** 

1. ALL VEHICLES EXITING EXCLUSION ZONE MUST PASS THROUGH THE CONTAMINANT REDUCTION ZONE. USE EQUIPMENT DECONTAMINATION PAD AS REQUIRED BY THE TOWN'S REPRESENTATIVE. CONTROL OVER SPRAY.



## DETAIL

#### PROJECT SIGN - ECONOMIC & COMMUNITY DEVELOPMENT



3/4" MDO-EXT-APA PLYWOOD SUPPORTED WITH (2) 4x4 TREATED SIGN PANEL WOOD COLUMNS AND SECURED 4' INTO GRADE. TOP OF SIGN AT 8'-0" ABOVE GRADE.

ALL LETTERS AND SYMBOLS ARE TO BE ROYAL BLUE. THE BACKGROUND WILL BE WHITE ENAMEL. BACK OF PLYWOOD AND SUPPORT STRUCTURE SHALL BE PAINTED MATTE BLACK.

TYPEFACE HELVETICA MEDIUM

SIGN MUST BE LOCATED TO BE CLEARLY VISIBLE TO THE PUBLIC. LOCATION INSTALL AT THE START OF CONSTRUCTION AND REMOVE AT

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SHEET NO.

15 of 15

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