

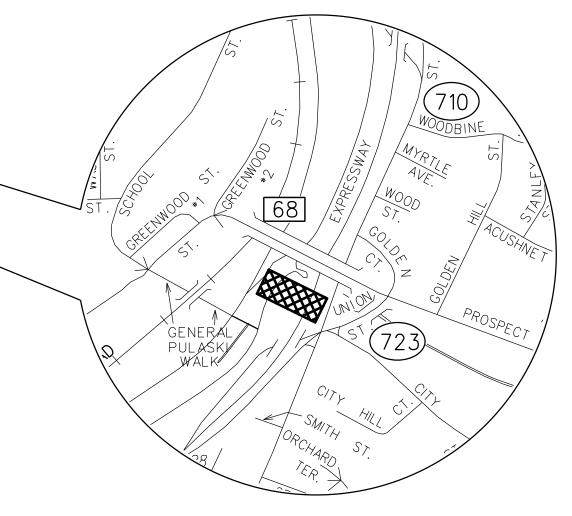
PLOTTED: 6/4/2015 10:05 AM BY: raymond culver

FILE: G:_Clients\Naugatuck CT\20140128.001A -Naugatuck - Siphon Repair\Drawings\Cover Sheet Dgn LAYOUT:

BOROUGH OF NAUGATUCK, CONNECTICUT RETAINING WALL AND SIPHON REPAIR AT FULLING MILL BROOK JUNE 2015



| SHEET N |
|---------|
| C-0 |
| C-1 |
| C-2 |
| C-3 |
| C-4 |
| C-5 |
| S-1 |
| S-2 |
| S-3 |
| S-4 |
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PROJECT LOCATION



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| | SHEET INDEX |
|-----|--------------------------------------------|
| NO. | SHEET TITLE |
| | COVER SHEET |
| | GENERAL NOTES AND DETAILS |
| | SITE PLAN |
| | EROSION AND SEDIMENTATION CONTROL PLAN |
| | SEWER DETAILS |
| | MAINTENANCE AND PROTECTION OF TRAFFIC PLAN |
| | STRUCTURAL - GENERAL PLAN |
| | STRUCTURAL - NORTH WALL DETAILS |
| | STRUCTURAL - SOUTH WALL DETAILS |
| | STRUCTURAL - MISCELLANEOUS DETAILS |
| | |

IN-STREAM NOTES:

1. ALL IN-STREAM WORK SHALL BE CONFINED (BY TEMPORARY DIVERSION MEASURES) PLACEMENT OF TEMPORARY DIVERSION MEASURES (UNCONFINED) SHALL BE PERFORMED BETWEEN JULY 1 AND OCTOBER 1.

2. NO HEAVY EQUIPMENT SHALL BE ALLOWED IN THE UNCONFINED STREAM FOR THE DEMOLITION OF THE EXISTING WALLS, OR FOR THE PLACEMENT OF RIPRAP IN THE CHANNEL.

3. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING CHANNEL CONFIGURATION AND SHALL MAINTAIN LOW-FLOW CHANNEL LOCATION UPSTREAM AND DOWNSTREAM FROM WORK AREA. CONTRACTOR SHALL DOCUMENT EXISTING CONDITION PRIOR TO WORK THROUGH TOPOGRAPHIC AND рното SURVEY.

4. CONTRACTOR IS REQUIRED TO MAINTAIN TEMPORARY FLOW THROUGH CROSSING. IN THE CASE WHERE FLOW EXCEEDS HEIGHT OF SANDBAG DIVERSION, CONTRACTOR SHALL REMOVE TEMPORARY DIVERSION MEASURES AND DISCONTINUE WORK IN THE CHANNEL. CONTRACTOR TO ENSURE STABILIZATION OF CHANNEL AT ALL TIMES.

5. ALL HAND EQUIPMENT AND MATERIALS SHALL BE REMOVED FROM ISOLATED IN-STREAM WORK AREAS WHEN NOT IN USE AND SHALL BE STORED IN APPROVED UPLAND LOCATIONS.

6. STANDARD RIPRAP (D50 =15") TO BE BURIED IN EXCAVATED AREAS, AS DIRECTED BY ENGINEER, TO A DEPTH OF 36" BELOW GRADE TO PREVENT UNDERMINING OF WALLS.

7.ROUNDED STONE RIPRAP (D50=15") TO BE PLACED, AS DIRECTED BY ENGINEER, OVER EXPOSED SIPHON ENCASEMENT DURING FLOWING CONDITIONS AS SHOWN ON THE PLAN. STONES SHALL BE PLACED IN VORTEX ROCK WEIR FORMATION AS DIRECTED BY THE ENGINEER.

8. DEWATERING DISCHARGE PAD TO BE CONSTRUCTED OF STANDARD RIPRAP (D50=15"). DISCHARGE PAD TO LOCATED WITHIN OUTSIDE LIMITS OF SANDBAG DIVERSION AS SHOWN ON PLANS. DEWATERING DISCHARGE PAD TO BE REMOVED ONCE CONSTRUCTION IS COMPLETE.

9. TOTAL DISTURBED STREAMBED AREAS ARE: NORTH WALL - 200± SQ. FT SOUTH WALL - 215+ SO FT

SUGGESTED CONSTRUCTION PHASING:

PHASE 1 NORTH RETAINING WALL REPLACEMENT

1. INSTALL EROSION CONTROL MEASURES AND TEMPORARY WATER DIVERSION FOR WORK ASSOCIATED WITH THE NORTH WALL DEMOLITION AND CONSTRUCTION.

2. INSTALL TEMPORARY EARTH RETAINING SYSTEM.

3. REMOVE EXISTING STONE GRAVITY WALL AND CONCRETE SLOPE PROTECTION SLAB (SEE DEMOLITION NOTES)

4. INSTALL TEMPORARY SEWER BYPASS. REMOVE SIPHON INLET STRUCTURE.

5. DEWATER, EXCAVATE AND PREPARE SUBGRADE FOR NEW CAST-IN-PLACE CONCRETE GRAVITY WALL.

6. CONSTRUCT THE NEW CAST-IN-PLACE CONCRETE GRAVITY WALL, BACKFILL AND REPLACE THE CONCRETE SLOPE PROTECTION SLAB.

7. REPLACE SIPHON INLET STRUCTURE. REMOVE TEMPORARY SEWER BYPASS.

8. INSTALL STONE RIPRAP.

9. REMOVE THE TEMPORARY EARTH RETAINING SYSTEM.

10. RELOCATE THE TEMPORARY WATER DIVERSION FOR WORK ASSOCIATED WITH THE SOUTH WALL DEMOLITION AND CONSTRUCTION.

PHASE 2 SOUTH RETAINING WALL REPLACEMENT

1. REPEAT STEPS 2 - 9 (MINUS STEPS 4 & 7) AS NOTED ABOVE FOR THE REPLACEMENT OF THE SOUTH STONE GRAVITY WALL AND RELATED WORK.

2. REMOVE THE TEMPORARY WATER DIVERSION AND EROSION CONTROL MEASURES.

GENERAL NOTES:

1.BASE MAPPING BASED ON FIELD SURVEY PERFORMED ON 8/21/2014 BY MARTINEZ COUCH AND ASSOCIATES.

2. THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE LOCATIONS SHOWN ON THE DRAWINGS AND FOR THE PROTECTION OF SERVICES DURING CONSTRUCTION. IN THE CASE OF DAMAGE, REPAIRS AND OR REPLACEMENT SHALL BE DONE BY THE CONTROLLING UTILITY CO. AT THE CONTRACTORS EXPENSE.

3.CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 A MINIMUM OF FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION TO LOCATE UNDERGROUND UTILITIES IN THE FIELD AND NOTIFY UTILITIES OF CONSTRUCTION.

4. THE CONTRACTOR SHALL FURNISH ALL PROTECTIVE DEVICES AS REQUIRED BY THE UTILITIES COMPANY AT NO ADDITIONAL EXPENSE TO THE CONTRACT.

5.ALL EXISTING UTILITIES AND STRUCTURES REMOVED BY THE CONTRACTOR SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE MADE AVAILABLE TO THE OWNER.

6.PUBLIC PROPERTY OR PRIVATE PROPERTY SUCH AS MAIL BOXES, LIGHT POLES, SIDEWALKS, SHRUBS, FENCES, STREET SIGNS ETC. DAMAGED OR DISTURBED BY THE CONTRACTORS OPERATIONS SHALL BE REPLACED TO LIKE CONDITION AT THE CONTRACTORS EXPENSE AS DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT SHALL BE MADE FOR RESETTING / RELOCATING MAILBOXES DUE TO NEW EDGE OF ROADWAY AND SHALL BE INCLUDED IN THE GENERAL COST OF THE CONTRACT.

7.ANY LAWN AREAS DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE LOAMED AND SEEDED. FINAL LIMITS OF FILL OR CUT AND LIMITS OF LOAMING AND SEEDING SHALL BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER.

8.EACH LAYER OF MATERIAL USED FOR BACK FILL, EMBANKMENT, ROADBED OR FOUNDATIONS FOR STRUCTURES SHALL BE COMPACTED UNTIL THE DRY DENSITY OF EACH LAYER IS AT LEAST 95 PERCENT OF THE DRY DENSITY ACHIEVED BY THE AASHTO TEST T-180, METHOD D FOR THAT SOIL.

9.ALL MATERIAL DEPTHS NOTED ON THE PLANS REFER TO DEPTH AFTER COMPACTION, UNLESS NOTED OTHERWISE.

10.THE OWNER RESERVES THE RIGHT TO ELIMINATE ANY PORTION OF THE CONTRACT AT ANY TIME. FINAL PAYMENT WILL BE MADE BASED UPON ACTUAL QUANTITIES AT THE BID UNIT PRICE. NO CLAIM WILL BE ALLOWED FOR ADDITIONAL COMPENSATION OR ANTICIPATED PROFIT ON ITEMS THAT HAVE BEEN DECREASED OR ELIMINATED.

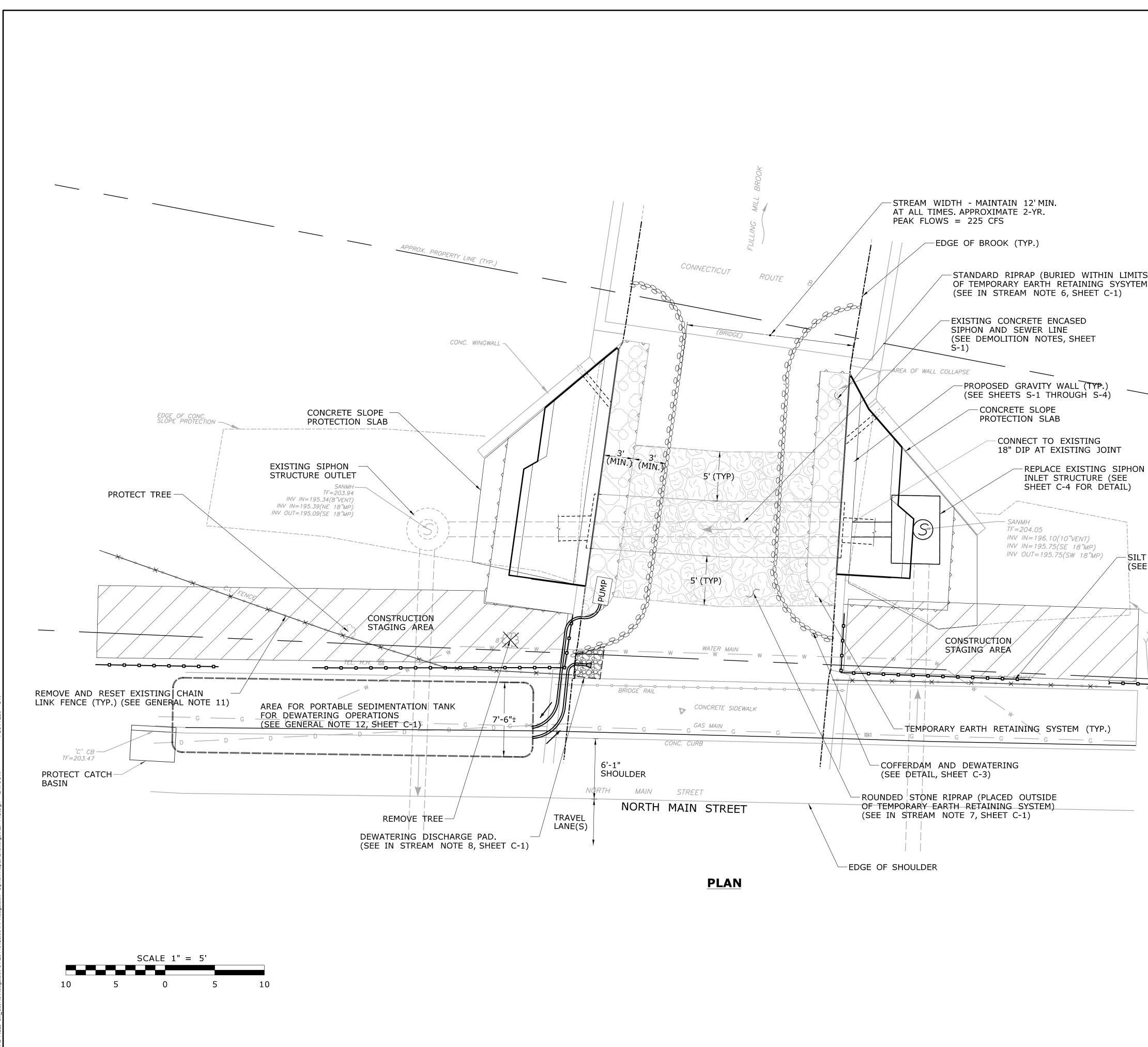
11. EXISTING CHAIN LINK FENCE TO BE REMOVED BY CONTRACTOR, AS REQUIRED, DURING CONSTRUCTION. FENCE SHALL BE REPLACED AND/OR RESET TO PRE-EXISTING CONDITIONS.

12. PORTABLE SEDIMENTATION TANK SHALL NOT BE PLACED ON BRIDGE. LINES TO AND FROM PORTABLE SEDIMENTATION TANK SHALL BE KEPT OUT OF STREAM CHANNEL. ALTERNATE METHODS OF SEDIMENTATION WILL BE CONSIDERED.

13. OVERHEAD UTILITY LINES TO BE MAINTAINED OR RELOCATED AS NECESSARY DURING AND PRIOR TO CONSTRUCTION. COORDINATION WITH APPLICABLE UTILITY PROVIDERS SHALL BE PERFORMED BY CONTRACTOR.

14. CONTRACTOR SHALL MAINTAIN ALL SANITARY FLOWS THROUGHOUT CONSTRUCTION INCLUDING TEMPORARY SUPPORT OF MANHOLE SIPHON STRUCTURE AT INLET.

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| / & T FENCE WITH HAYBALE (TYP.) E DETAIL, SHEET C-3) / J | | | | | |
| EDGE OF CONC. | | | SCALE VERIFICATION | | |
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| | | | IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY | | |
| | | | | | |
| OVERHEAD UTILITY POLES/LINES (SEE GENERAL NOTE 13, SHEET C-1) | | ORIGINAL DRAWI | NG SIZE IS 22 x 34 ΡΙ ΔΝ | | |
| | F | RETAINING WALL A | ND SIPHON REPAIR MILL BROOK | | |
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EROSION AND SEDIMENTATION CONTROL NOTES

1.ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE CONSTRUCTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE BOROUGH OF NAUGATUCK REGULATIONS AND THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

2.ALL CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLAN(S).

3.ALL CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE TOWN PRIOR TO COMMENCEMENT OF ANY WORK, INCLUDING PRE-CONSTRUCTION CLEARING AND GRUBBING.

4.ALL CONTROL MEASURES SHALL BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.

5.NO CONTROL MEASURES SHALL BE REMOVED WITHOUT APPROVAL FROM THE TOWN.

6.ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF DEEMED NECESSARY BY THE TOWN OR ITS AUTHORIZED AGENT.

7. THE LIMITS OF CLEARING, GRADING AND DISTURBANCE, AS SHOWN ON THE PLAN(S), SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF CLEARING SHALL REMAIN TOTALLY UNDISTURBED.

8.ANY CONTROL MEASURES RETAINING SEDIMENT OVER 1/2 THEIR HEIGHT SHALL HAVE THE SEDIMENT IMMEDIATELY REMOVED, AND ALL DAMAGED CONTROL MEASURES SHALL BE REMOVED AND REPLACED.

9.ALL CATCH BASINS LOCATED DOWN-GRADE OF THE SITE SHALL BE PROTECTED BY PLACING FILTER FABRIC BENEATH THE GRATE UNTIL ALL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.

10.ALL NEW AND EXISTING CATCH BASINS LOCATED ON THE SITE SHALL BE PROTECTED BY STAKED HAYBALES AND BY PLACING FILTER FABRIC BENEATH THE GRATE UNTIL ALL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.

11.ALL SEDIMENT SHALL BE IMMEDIATELY REMOVED FROM NEW AND EXISTING DRAINAGE STRUCTURES AND PIPING IMPACTED BY THE PROPOSED CONSTRUCTION.

12.SEDIMENT REMOVED FROM CONTROL MEASURES AND DRAINAGE FACILITIES SHALL BE DISPOSED OF IN A MANNER THAT IS CONSISTENT WITH STATE AND LOCAL REGULATIONS.

13. THE PLANTING SEASONS FOR THE SPECIFIED SEED MIXTURE SHALL BE AS DEFINED IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, UNLESS DIRECTED OTHERWISE BY THE TOWN. OUTSIDE OF THESE SPECIFIED DATES, AREAS WILL BE STABILIZED WITH HAYBALE CHECK DAMS, FILTER FABRIC, OR WOODCHIP MULCH AS REQUIRED TO CONTROL EROSION.

14.THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE THAT NO DRAINAGE FROM TOWN ROADS ENTERS THE SITE DURING OR AFTER CONSTRUCTION.

15.THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST AND WIND EROSION THROUGHOUT THE LIFE OF THE CONTRACT. THE CONTRACTOR SHALL CONTROL DUST TO PREVENT A HAZARD TO TRAFFIC ON ADJACENT ROADWAYS.

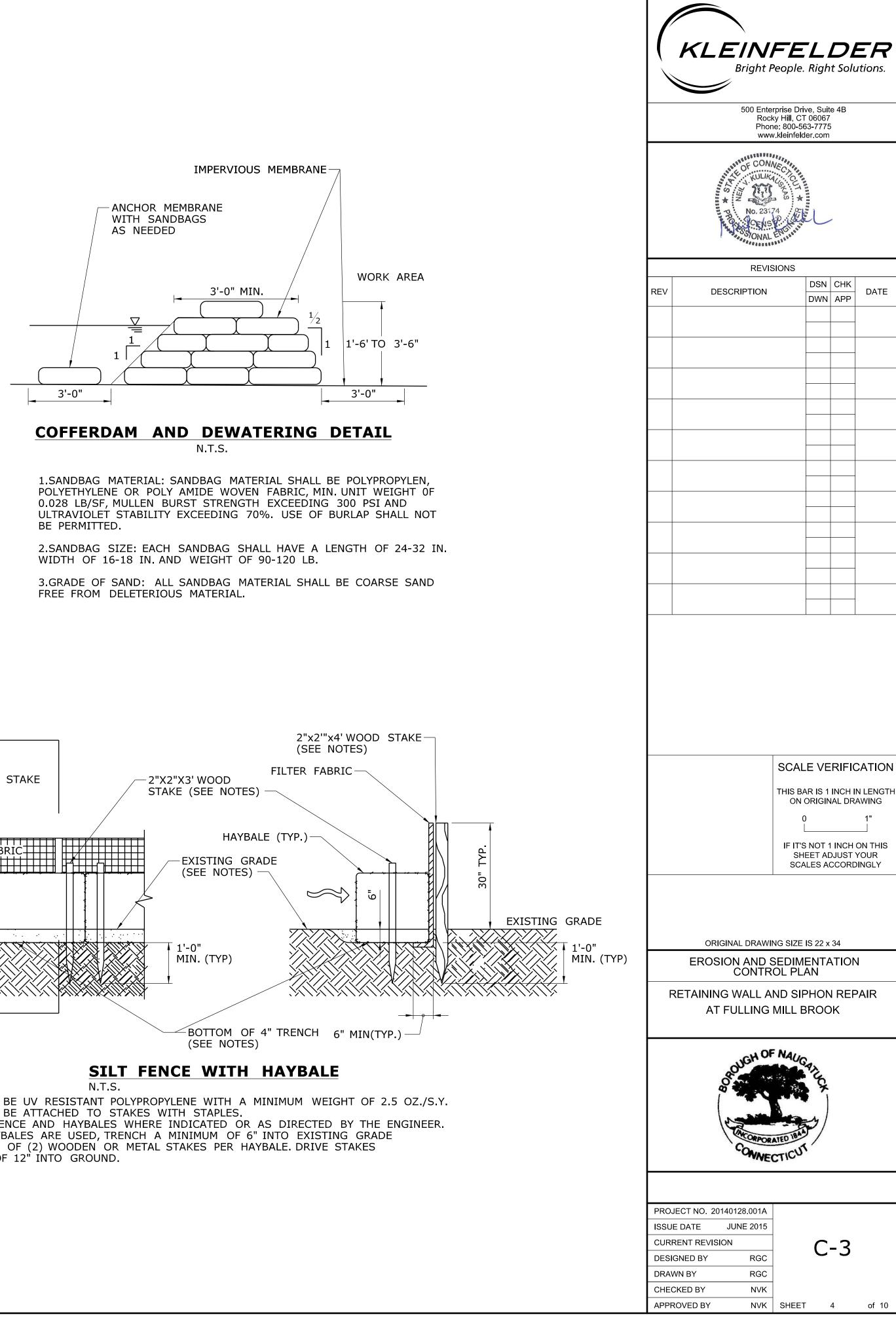
16.TEMPORARY STOCKPILING OF CONSTRUCTION MATERIALS SHALL ONLY BE ALLOWED IN THE LOCATIONS SHOWN ON THE PLAN(S). STOCKPILE AREAS SHALL BE FULLY ENCLOSED BY SILT FENCE.

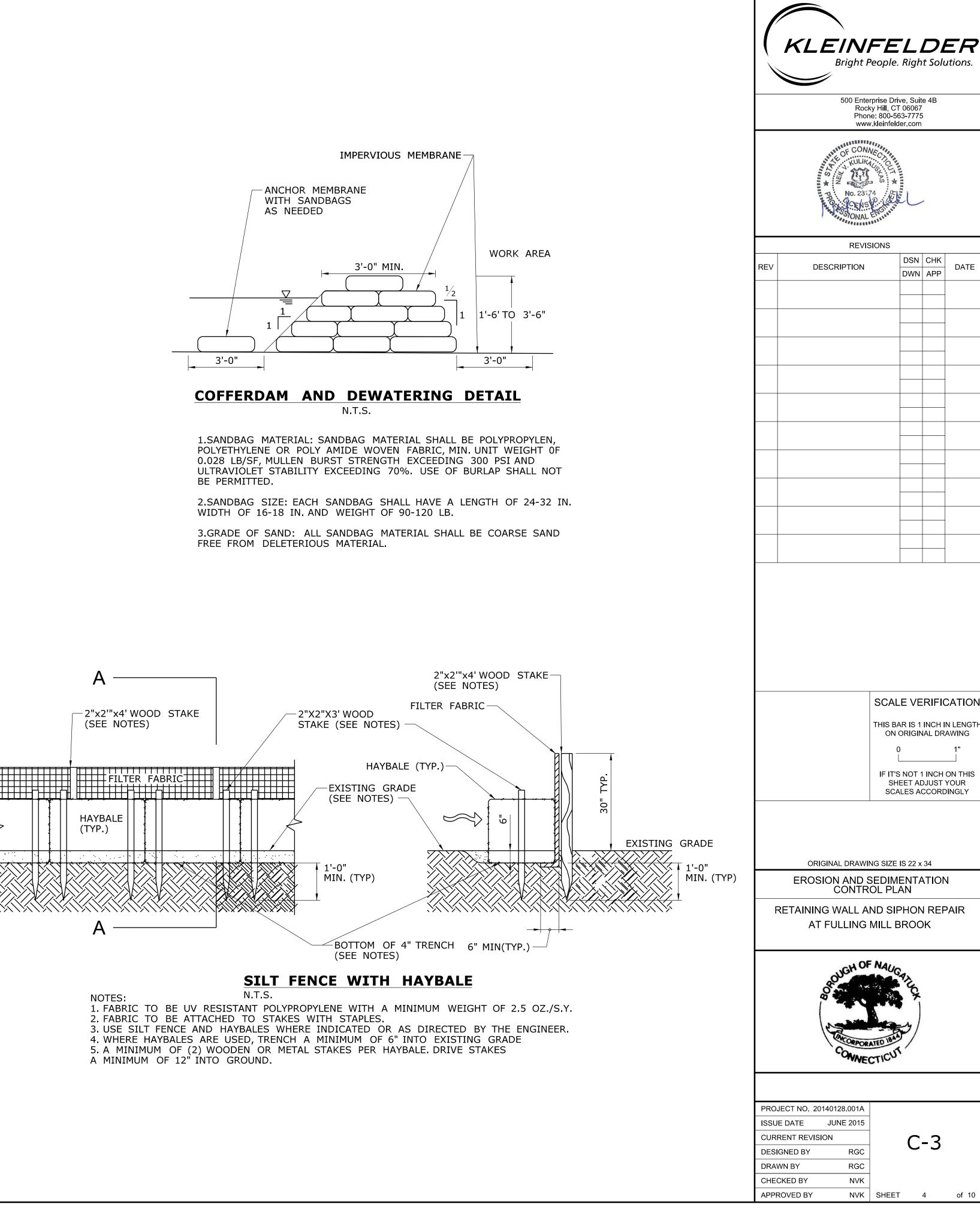
17.IF NO STOCKPILE AREA IS SHOWN, THE CONTRACTOR SHALL REMOVE MATERIALS FROM SITE IMMEDIATELY UPON EXCAVATION.

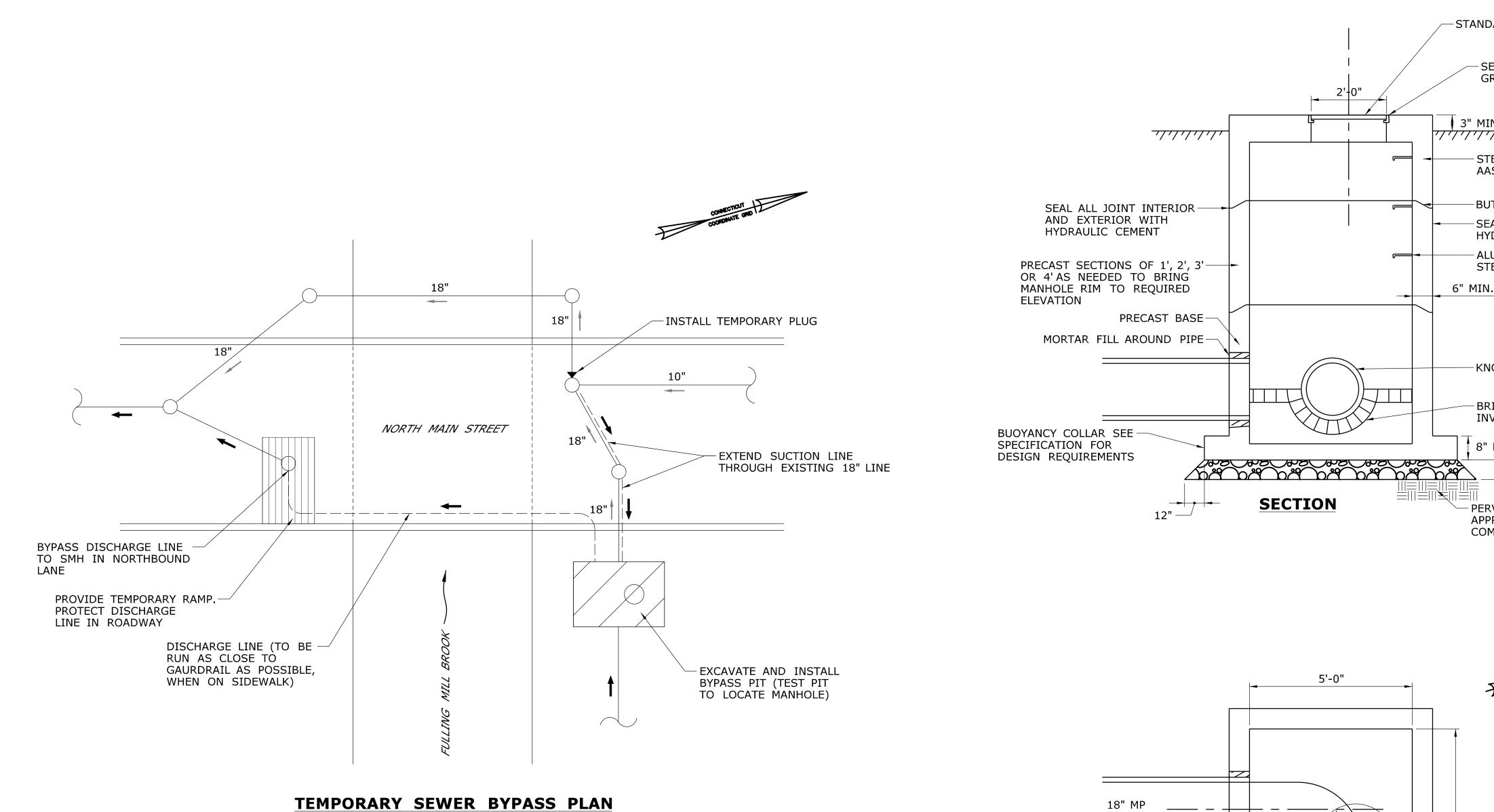
18.ALL GROUNDWATER EXTRACTED DURING DEWATERING OF EXCAVATIONS SHALL BE DIRECTED TO A TEMPORARY/PORTABLE SEDIMENTATION BASIN.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENTATION CONTROL PLAN. THIS INCLUDES THE INSTALLATION AND MAINTENANCE OF ALL CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND NOTIFYING THE TOWN OF ANY TRANSFER OF THIS RESPONSIBILITY.

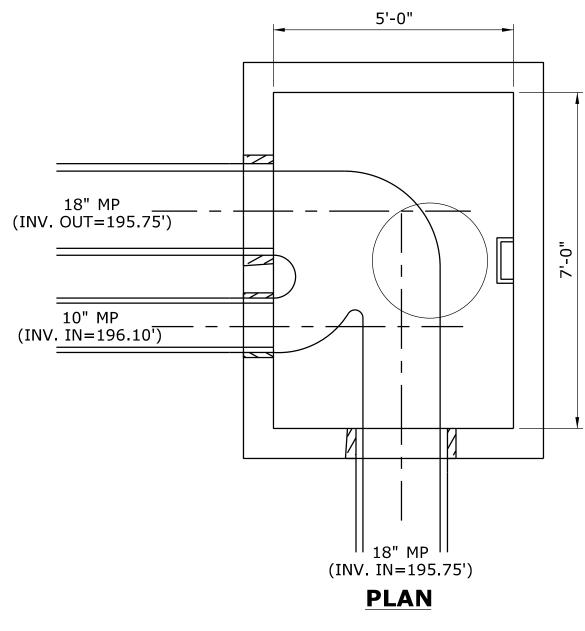
20.THE EMERGENCY CONTACT AT THE TOWN OF NAUGATUCK IS JAMES STEWART, PUBLIC WORKS DIRECTOR, (203)720-7071.





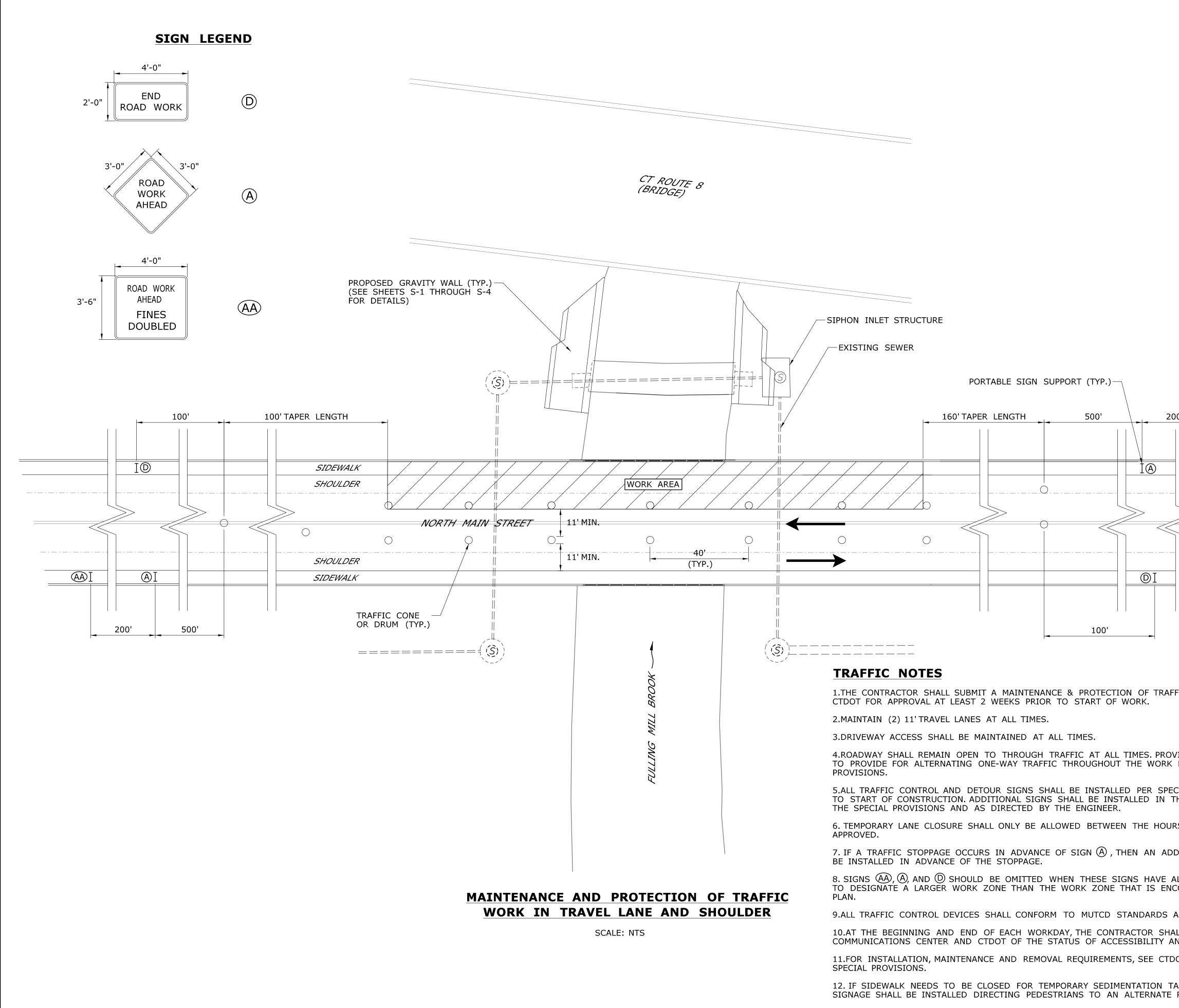


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INLET SIPHON STRUCTURE NTS

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| STANDARD MANHOLE COVER SET RIM AT FINISH GRADE ELEVATION | | DE NO. 231 | VECTOR A | 1 | | | |
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| -BUTYL RUBBER JOINT (TYP.) -SEAL ALL PINHOLES WITH HYDRAULIC CEMENT -ALUMINUM MANHOLE | | | | | | | |
| STEPS @ 12" O.C. MIN. WALL THICKNESS | | | | | | | |
| -KNOCKOUTS FOR PIPES | | | | | | | |
| BRICK AND MORTAR INVERT. MATCH PIPE SLOPE | | | | | | | |
| 8" MIN. BOTTOM SLAB THICKNESS | | | | | | | |
| 12" CRUSHED STONE PERVIOUS STRUCTURE BACKFILL OR APPROVED BACKFILL MATERIAL COMPACTED PER ASTM STANDARDS | | | | | | | |
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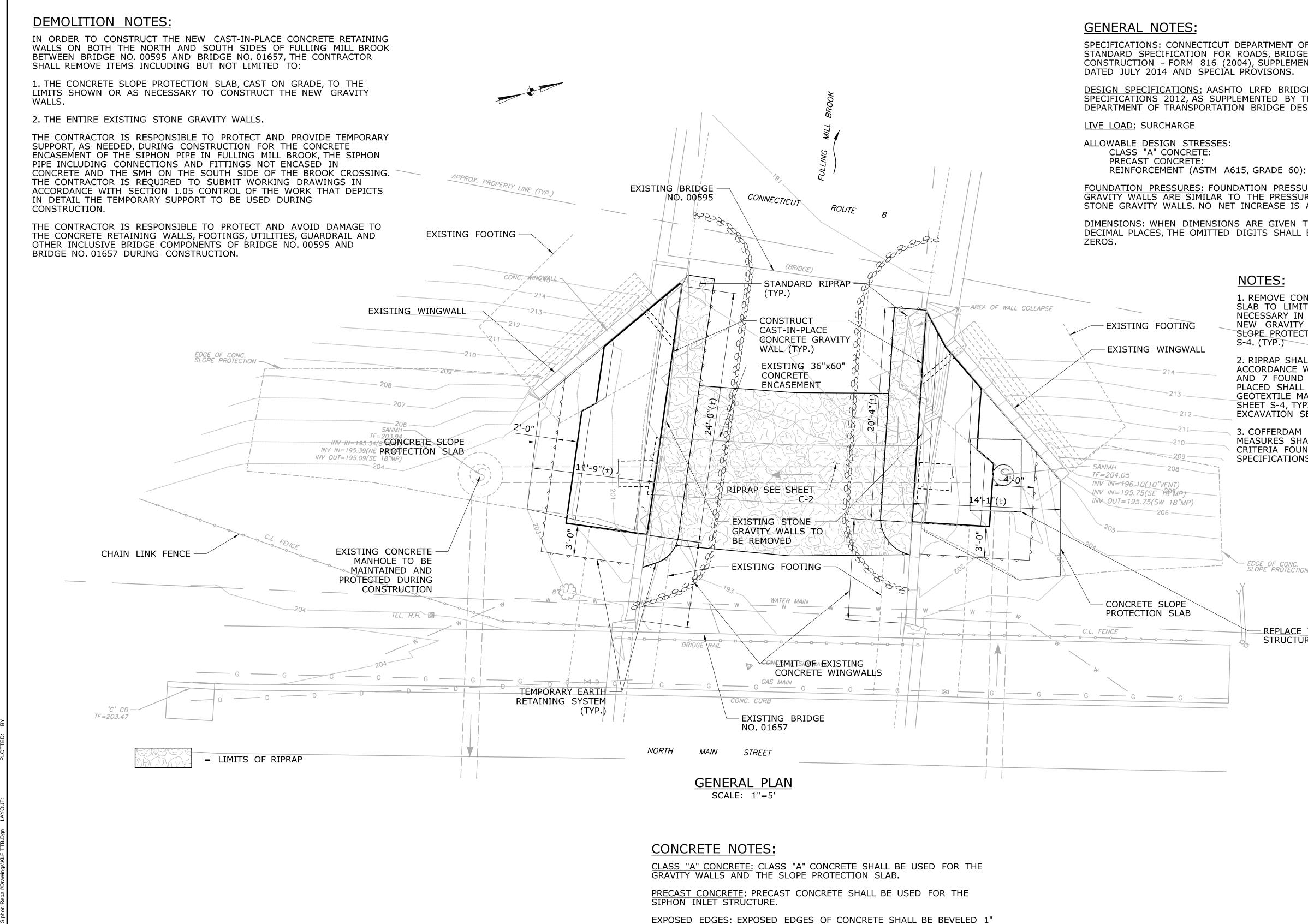
12. IF SIDEWALK NEEDS TO BE CLOSED FOR TEMPORARY SEDIMENTATION TA SIGNAGE SHALL BE INSTALLED DIRECTING PEDESTRIANS TO AN ALTERNATE

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPLICABLE PE AND CTDOT.

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| S AND CTDOT STANDARDS. | | | OWNE | CTICUT | | | | | |
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EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" x 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE 2" COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60, UNLESS NOTED OTHERWISE.

CLOSED CELL ELASTOMER: THE COST OF FURNISHING AND INSTALLING CLOSED CELL ELASTOMER SHALL BE INCLUDED IN THE COST OF THE ITEM "CLASS 'A' CONCRETE."

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION - FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 2012, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL.

f'c = 3,000 PSIf'c = 6,000 PSIfy = 60,000 PSI

FOUNDATION PRESSURES: FOUNDATION PRESSURES FOR THE NEW GRAVITY WALLS ARE SIMILAR TO THE PRESSURES OF THE EXISTING STONE GRAVITY WALLS. NO NET INCREASE IS ANTICIPATED.

DIMENSIONS: WHEN DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE

NOTES:

1. REMOVE CONCRETE SLOPE PROTECTION SLAB TO LIMITS AS SHOWN OR AS NECESSARY IN ORDER TO CONSTRUCT T NEW GRAVITY WALLS. REPLACE CONCRET SLOPE PROTECTION SLAB, SEE DETAIL ON S-4. (TYP.)

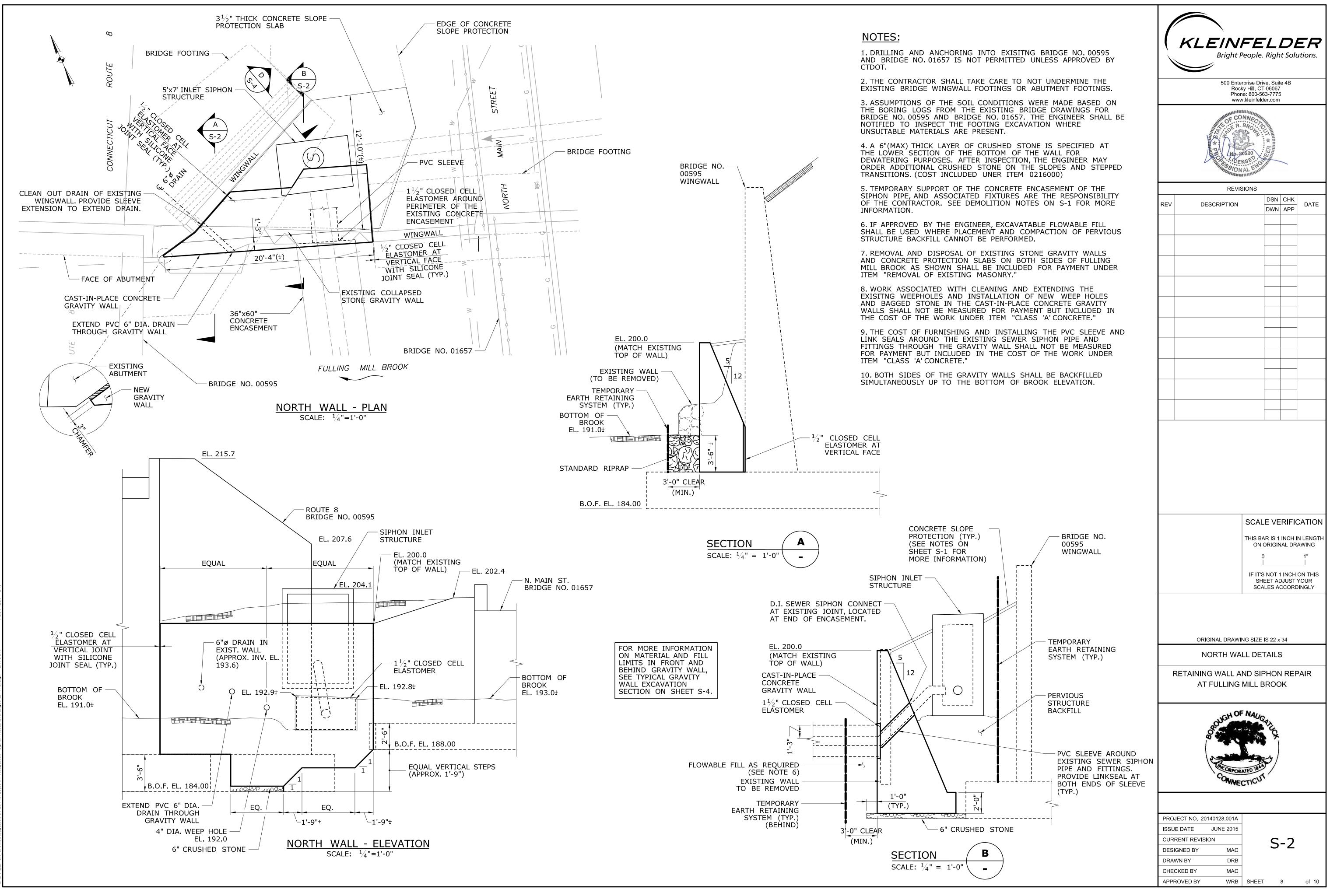
2. RIPRAP SHALL BE PLACED IN ACCORDANCE WITH IN-STREAM NOTES 6 AND 7 FOUND ON SHEET C-1. ALL RIPRA PLACED SHALL BE WRAPPED WITH GEOTEXTILE MATERIAL AS SHOWN ON SHEET S-4, TYPICAL GRAVITY WALL EXCAVATION SECTION.

3. COFFERDAM AND DEWATERING MEASURES SHALL MEET IN-STREAM NOTES CRITERIA FOUND ON SHEET C-1 AND SPECIFICATIONS FOR ITEM 0204001.

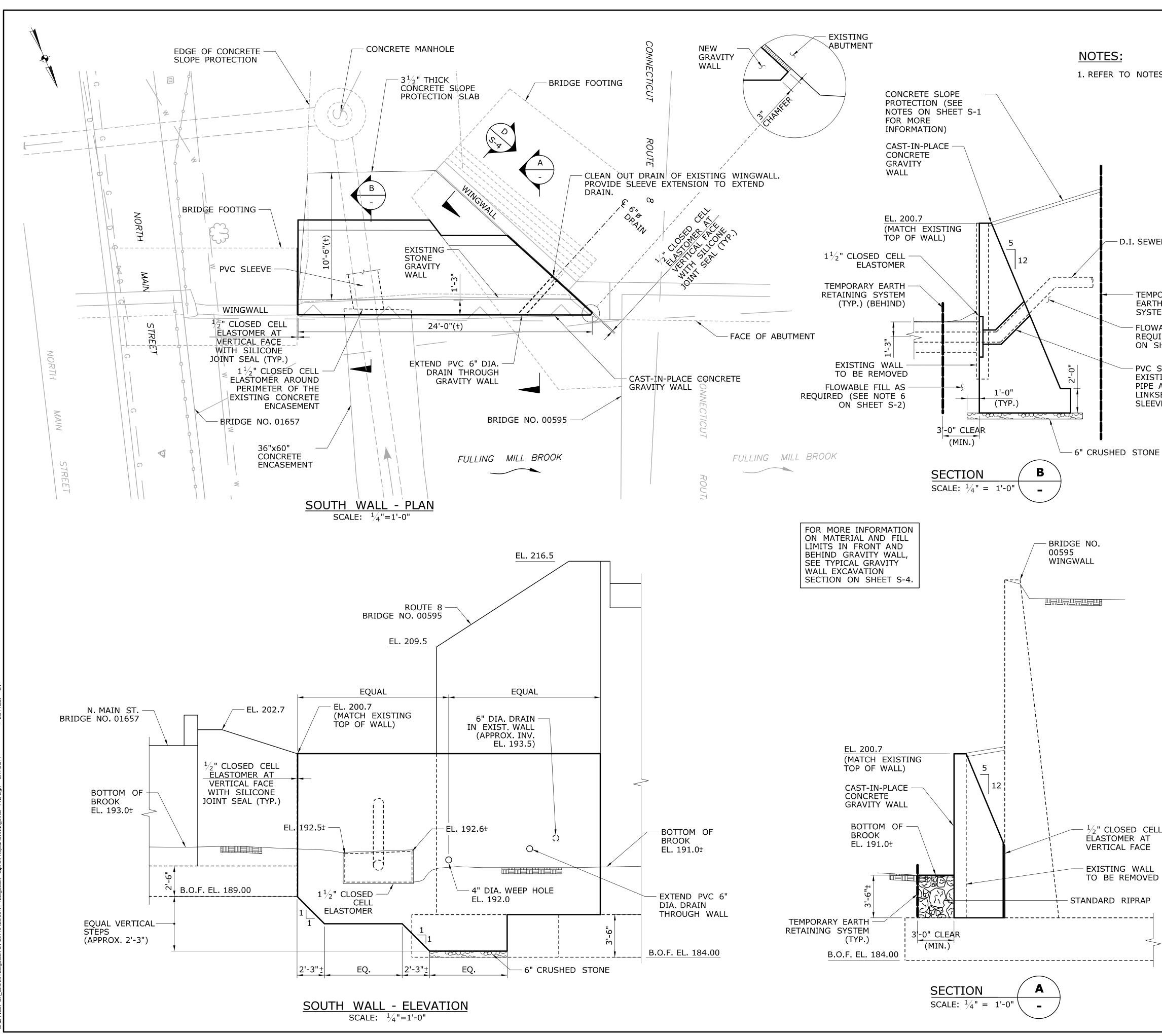
EDGE OF CONC. SLOPE PROTECTION

REPLACE 7'x5' SIPHON INLET STRUCTURE (SEE SHEET C-4)

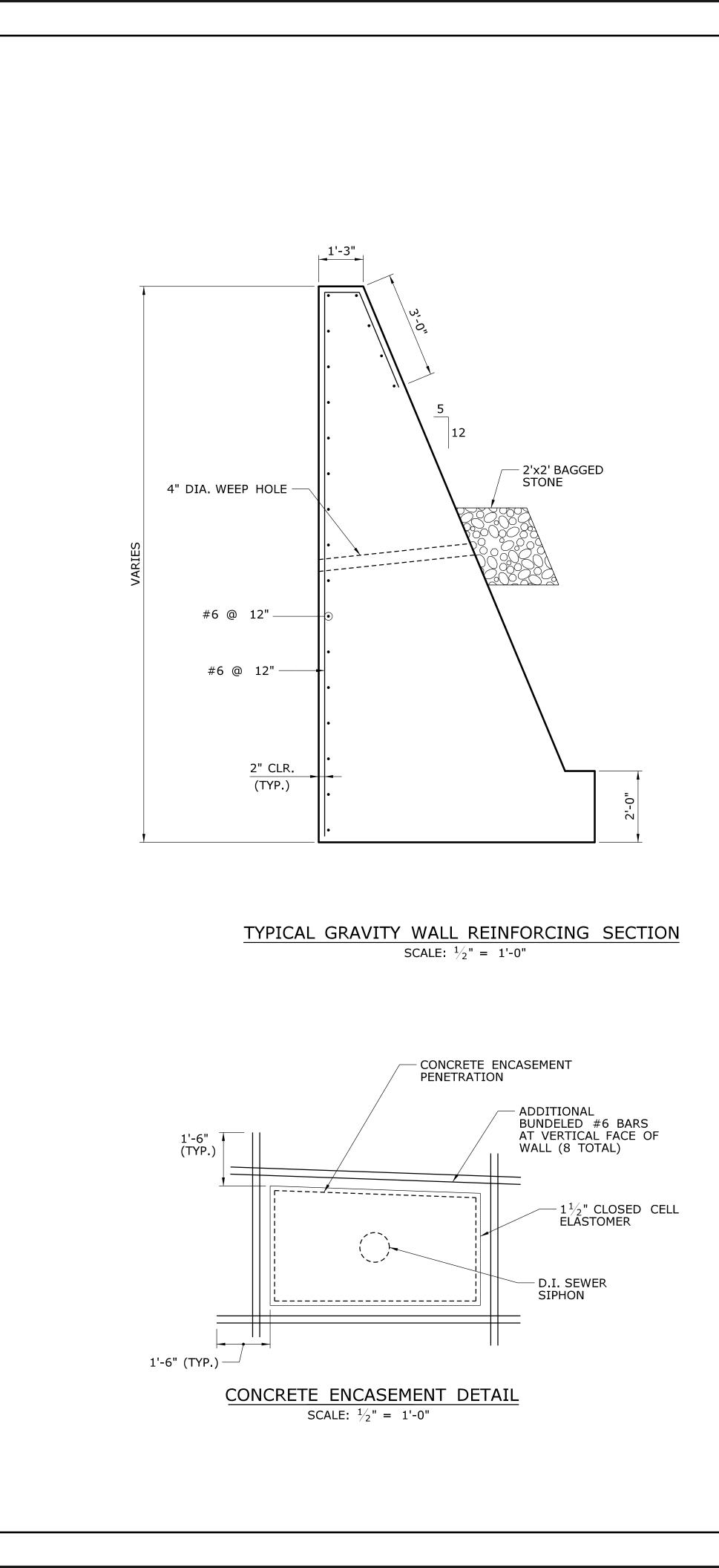
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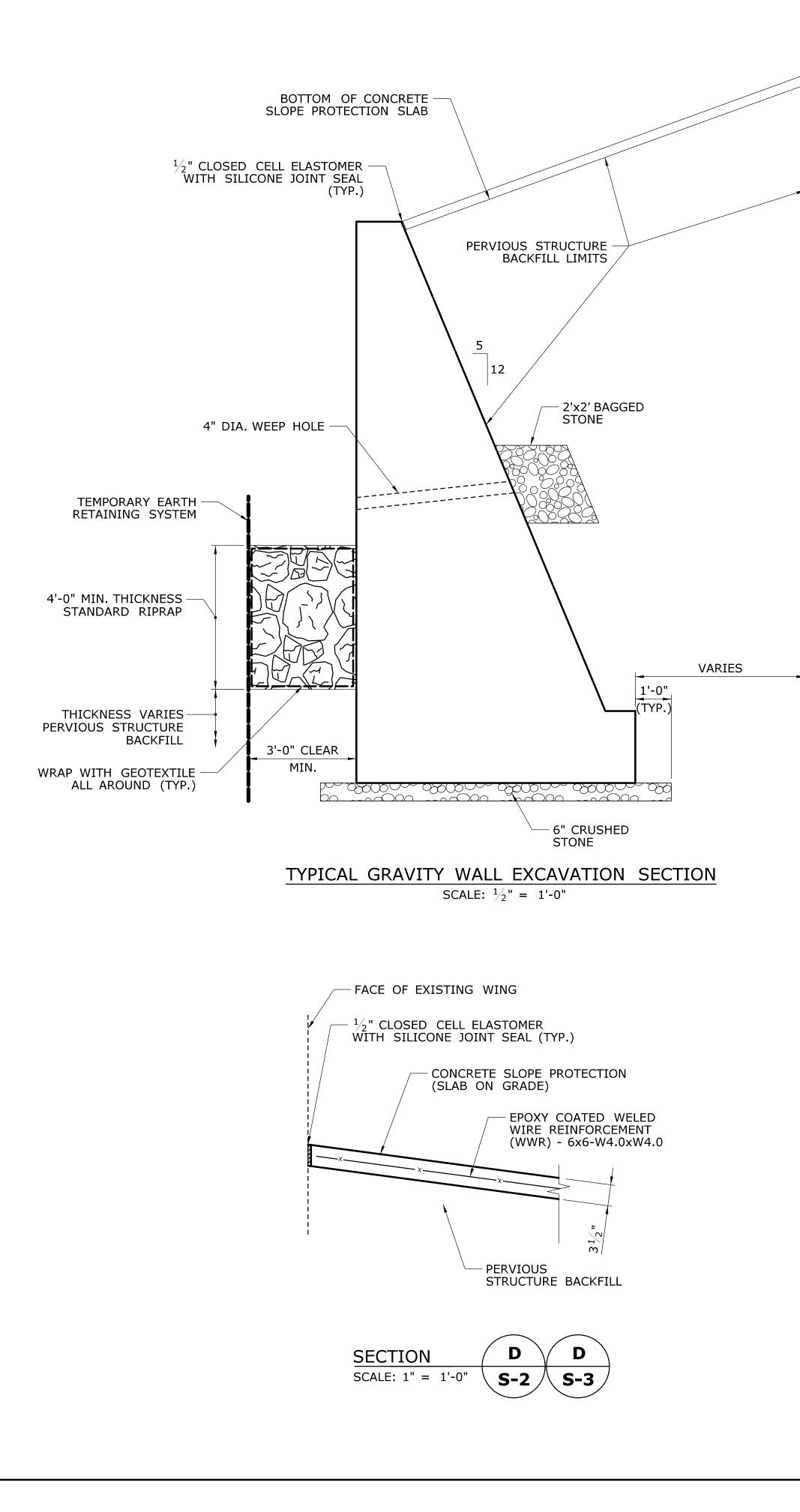
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| I. SEWER SIPHON | REV DESCRIPTION DSN CHK DWN APP | ATE | | | | | |
| - TEMPORARY EARTH RETAINING SYSTEM (TYP.) | | | | | | | |
| - FLOWABLE FILL AS REQUIRED (SEE NOTE 6 ON SHEET S-2) | | | | | | | |
| - PVC SLEEVE AROUND EXISTING SEWER SIPHON PIPE AND FITTINGS. PROVIDE LINKSEAL AT BOTH ENDS OF SLEEVE (TYP.) | | | | | | | |
| STONE | | | | | | | |
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| | SCALE VERIFICAT THIS BAR IS 1 INCH IN LEI ON ORIGINAL DRAWIN 0 1" IF IT'S NOT 1 INCH ON T SHEET ADJUST YOUR SCALES ACCORDINGE | NGTH NG THIS R | | | | | |
| | | | | | | | |
| | ORIGINAL DRAWING SIZE IS 22 x 34 | | | | | | |
| | SOUTH WALL DETAILS RETAINING WALL AND SIPHON REPAIR AT FULLING MILL BROOK | 2 | | | | | |
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