

TOWN OF GROTON, VT
CONTRACT DRAWINGS
FOR
HEALTH, SAFETY AND
STORMWATER IMPROVEMENTS



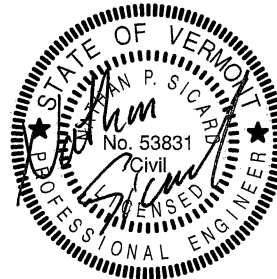
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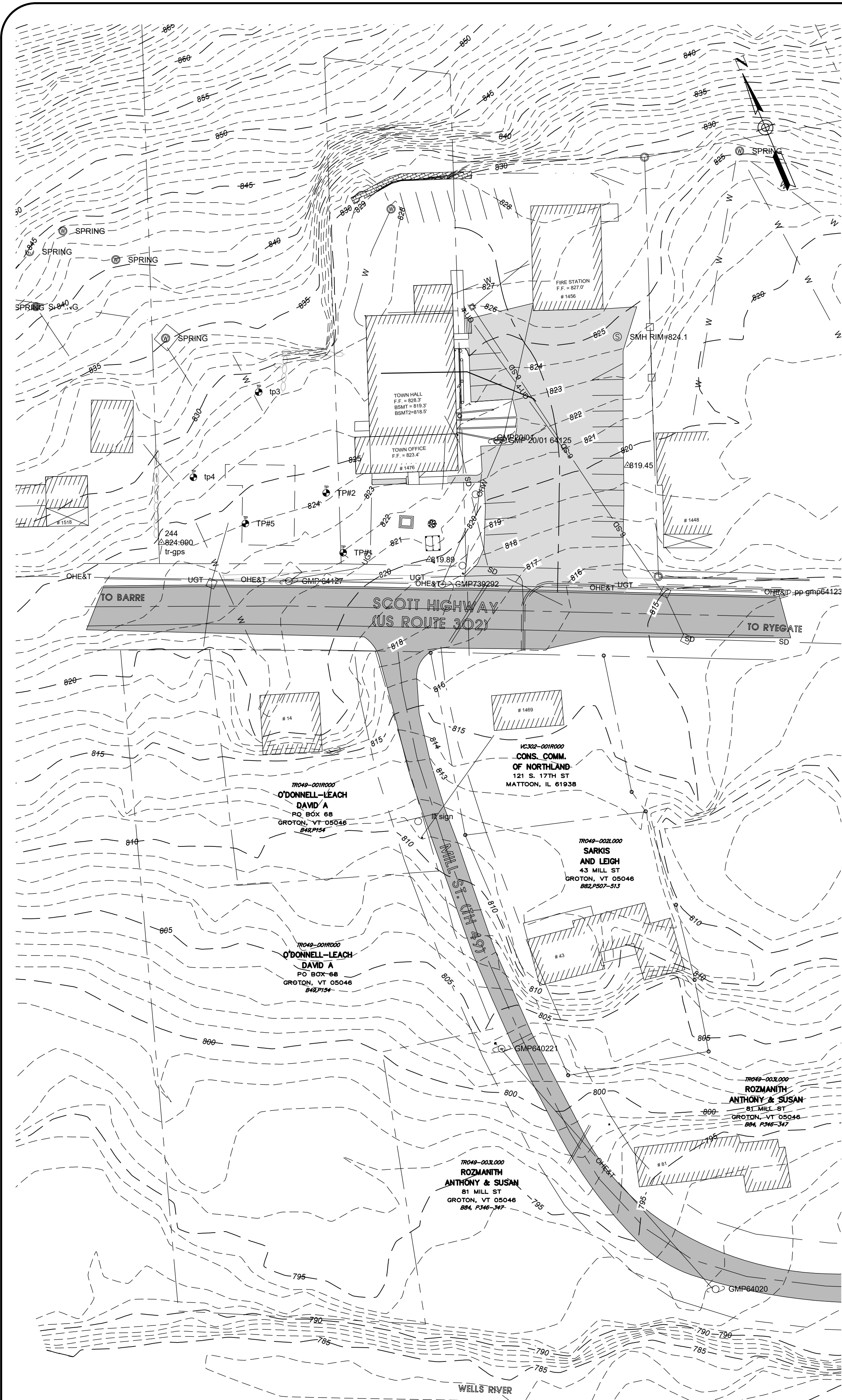
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- C102 - DRAINAGE PLAN STA. 0 TO 5+00
- C103 - DRAINAGE PLAN STA. 5+00 TO 7+14
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- C501 - DETAILS.

MARCH 31, 2023

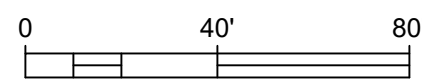
PREPARED BY RUGGLES ENGINEERING SERVICES, Inc.

4580 MEMORIAL DR.
ST. JOHNSBURY, VT 05819
802-748-5898



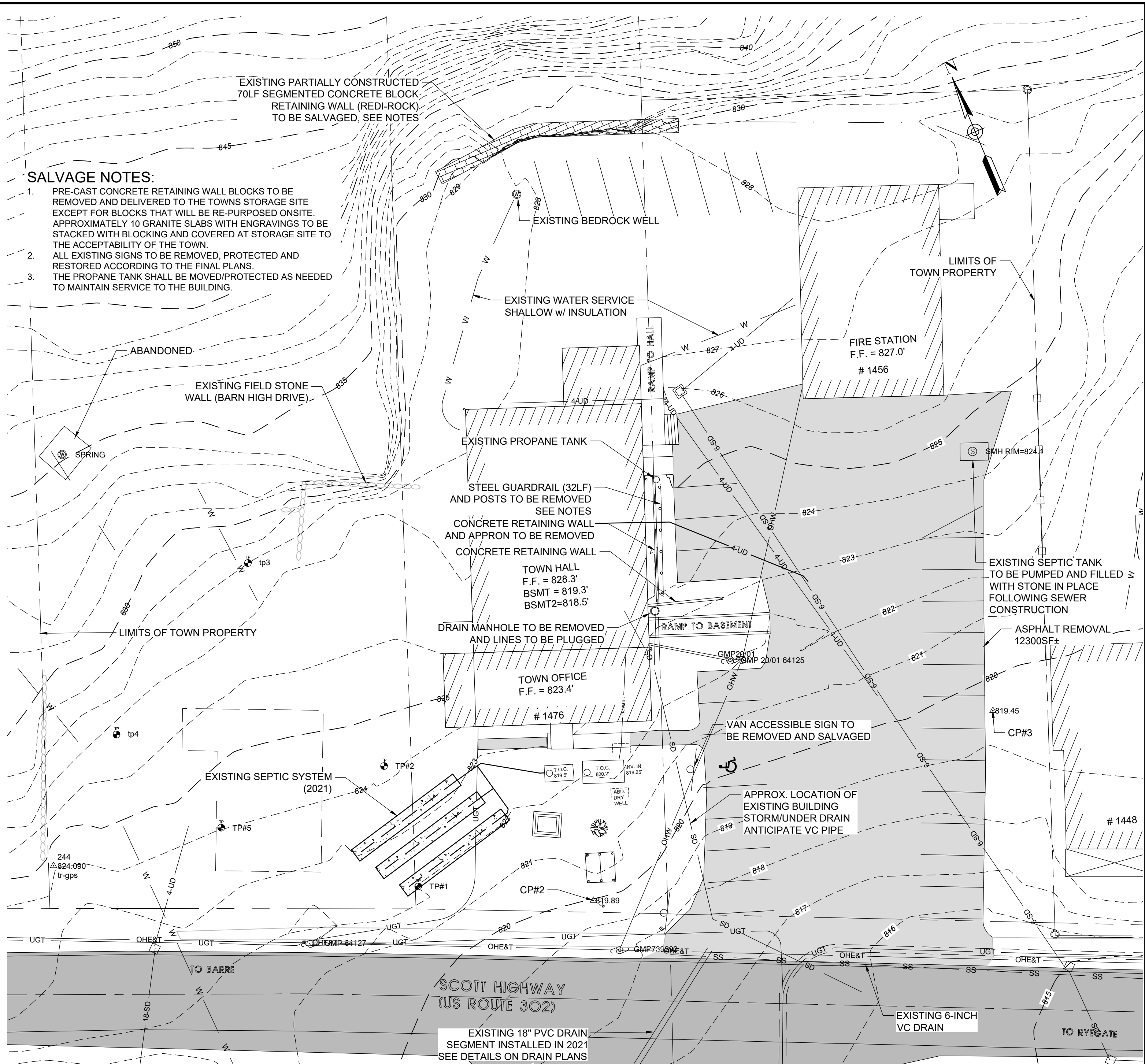


EXISTING OVERALL SITE PLAN
SCALE: 1" = 40'

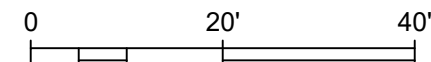


GENERAL NOTES:

1. THIS PROJECT INCLUDES INSTALLATION OF STORM DRAIN UTILITY PIPE, UNDERDRAIN PIPE AND OPEN CHANNEL CONVEYANCE FOR STORMWATER AND GROUNDWATER MANAGEMENT. THE PROJECT ALSO INCLUDES THE REMOVAL OF AN EXISTING PRECAST SEGMENTED RETAINING WALL, SLOPE STABILIZATION AND EXPANSION AND IMPROVEMENTS OF THE PARKING AREA FOR THE TOWN HALL, RECONSTRUCTION OF THE EXISTING PARKING LOT AND OTHER MISCELLANEOUS IMPROVEMENTS.
2. CONSTRUCTION LIMITS OF DISTURBANCE INCLUDE GREATER THAN 1 ACRE AND REQUIRE A VT DEC CONSTRUCTION STORMWATER PERMIT. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE VT DEC LOW RISK SITE HANDBOOK AND TO INSTALL THE WORK IN PHASES INCLUDING CONSTRUCTION AND STABILIZATION OF THE DITCHING ON MILL ST. IN ADVANCE OF CONSTRUCTION OF THE STORMWATER AND GROUNDWATER COLLECTION PIPE NETWORK.
3. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PERMIT REQUIREMENTS.
4. THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES ARE APPROXIMATE. EXISTING UTILITIES SHALL BE LOCATED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THERE MAY BE OTHER UNKNOWN BURIED UTILITIES. NEITHER THE OWNER OR THE ENGINEER WARRANTS OR GUARANTEES THE CONDITIONS SHOWN ON THE DRAWINGS.
5. IF ANY CONFLICTS EXIST BETWEEN THESE PROJECT PLANS AND SPECIFICATIONS AND THE AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS, THE VTRANS STANDARD SPECIFICATIONS SHALL GOVERN WHEN WORKING WITHIN THE HIGHWAY RIGHT OF WAY.
6. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE PHASING TO MAINTAIN ACCESS TO THE TOWN OFFICES, TOWN HALL AND THE FIRE DEPARTMENT.
7. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT DIG-SAFE PRIOR TO CONSTRUCTION.
8. INFORMATION PROVIDED HEREIN FOR A PERMIT APPLICATION DOES NOT DEFINE LEGAL RIGHTS OR MEET LEGAL REQUIREMENTS FOR A LAND SURVEY AS DESCRIBED IN 26 V.S.A. §2502(4), AND SHALL NOT BE USED IN LIEU OF A SURVEY AS THE BASIS OF ANY LAND TRANSFER OR ESTABLISHMENT OF ANY PROPERTY RIGHTS.
9. IT IS THE CONTRACTORS RESPONSIBILITY TO CONSTRUCT THE PROJECT IN A TIMELY AND SAFE MANNER.
10. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT EXISTING PAVEMENT, ROADWAYS, STRUCTURES AND SHALL REPAIR ANY DAMAGE AT NO COST TO THE OWNER OR VTRANS.
11. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH RECORD TIES AND ELEVATIONS.



EXISTING SITE AND
DEMOLITION PLAN
SCALE: 1" = 20'



SURVEY CONTROL INFORMATION
POINT NORTHING EASTING ELEV. DESCRIPTION
CP#1 623944.14', 1719597.96', 824.03', 8-INCH SPIKE
CP#2 623875.12, 1719735.33, 819.89', 8-INCH SPIKE
CP#3 623880.39, 1719861.0, 819.45', 8-INCH SPIKE

LEGEND

---	EXISTING MINOR CONTOUR (SEE PLAN FOR INCREMENT)
---	EXISTING MAJOR CONTOUR
---	PROPOSED CONTOUR
---	DRAINAGE CONVEYANCE
---	PROPOSED STORM DRAIN/CULVERT (SIZE AS SHOWN)
---	PROPOSED UNDERDRAIN (SIZE AS SHOWN)
---	PROPOSED CATCH BASIN
---	OVERHEAD ELECTRIC AND TELEPHONE
---	UNDERGROUND TELEPHONE
---	UNDERGROUND ELECTRIC
---	PROPERTY LINE +/-
---	IRON PIPE/IRON PIN
---	LOT LINE +/-
---	CONTROL POINT

*NOTE: HEAVY LINE WEIGHTS DEPICT PROPOSED CONDITION.
SOME UTILITY SYMBOLS ARE SHOWN FOR REFERENCE ONLY.



PREPARED FOR:
Address

REVISIONS	Date	Description
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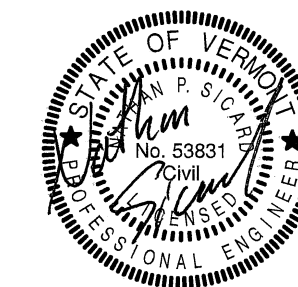
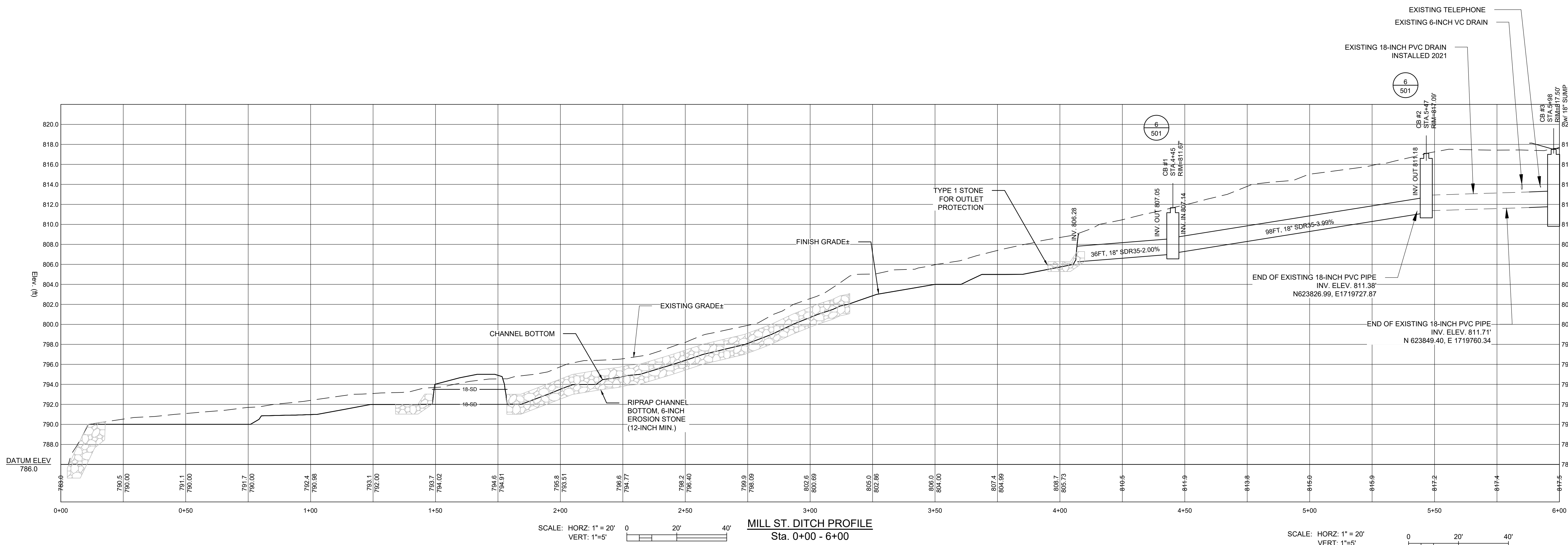
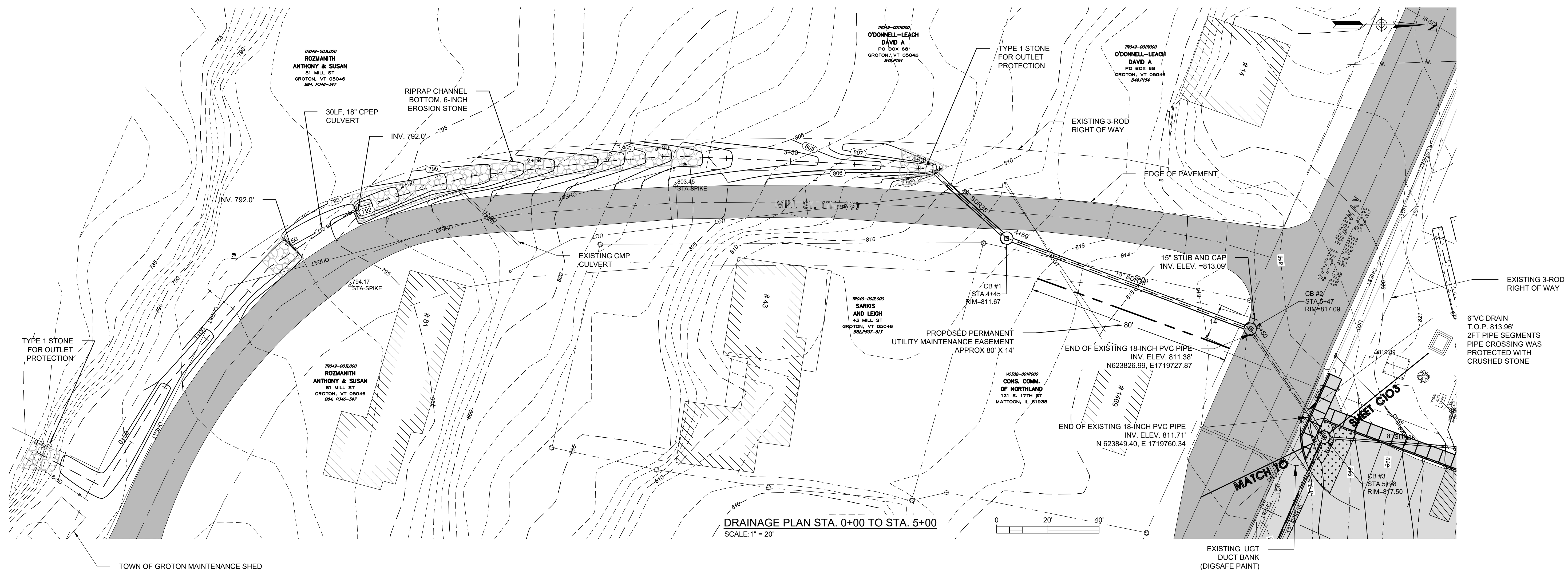
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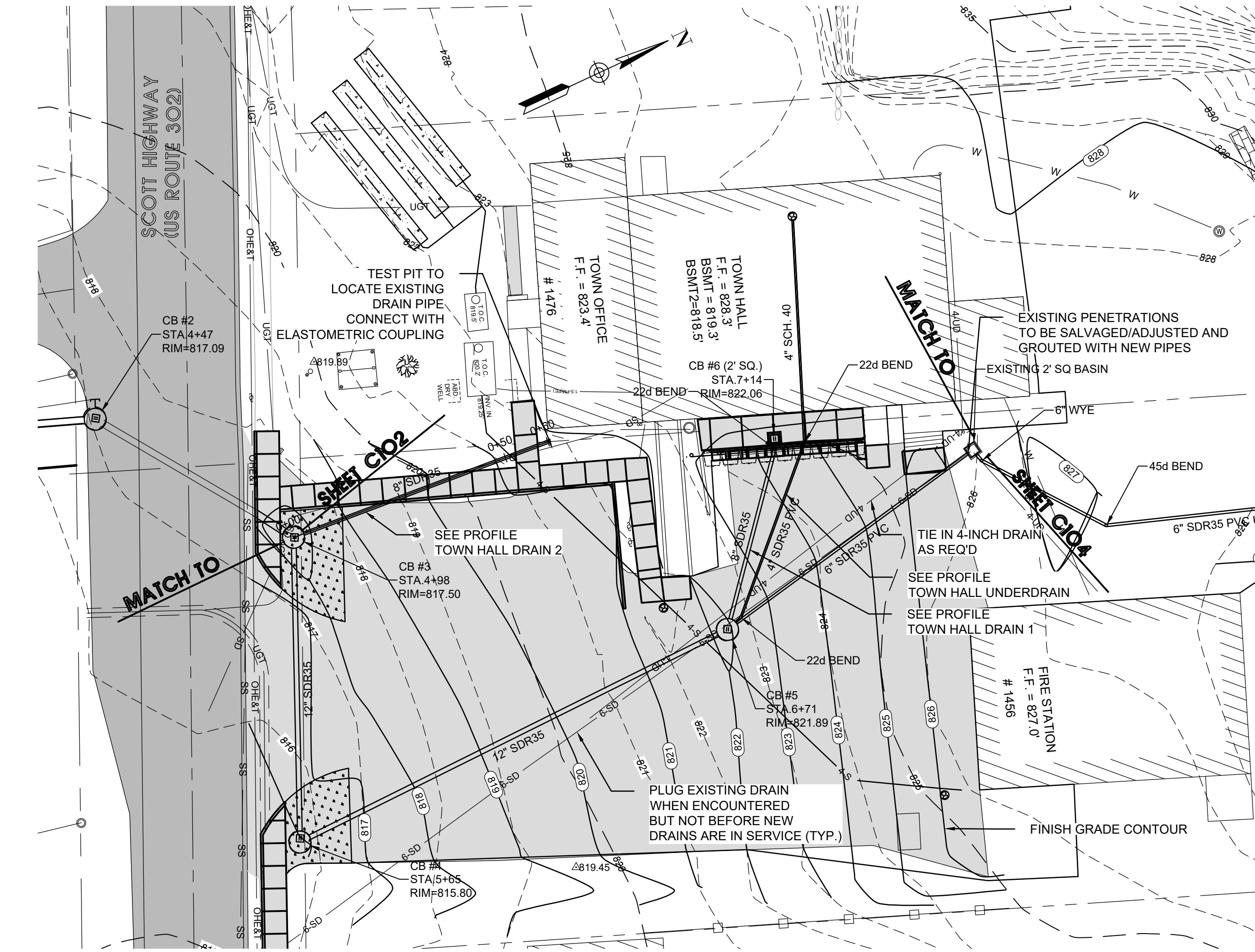
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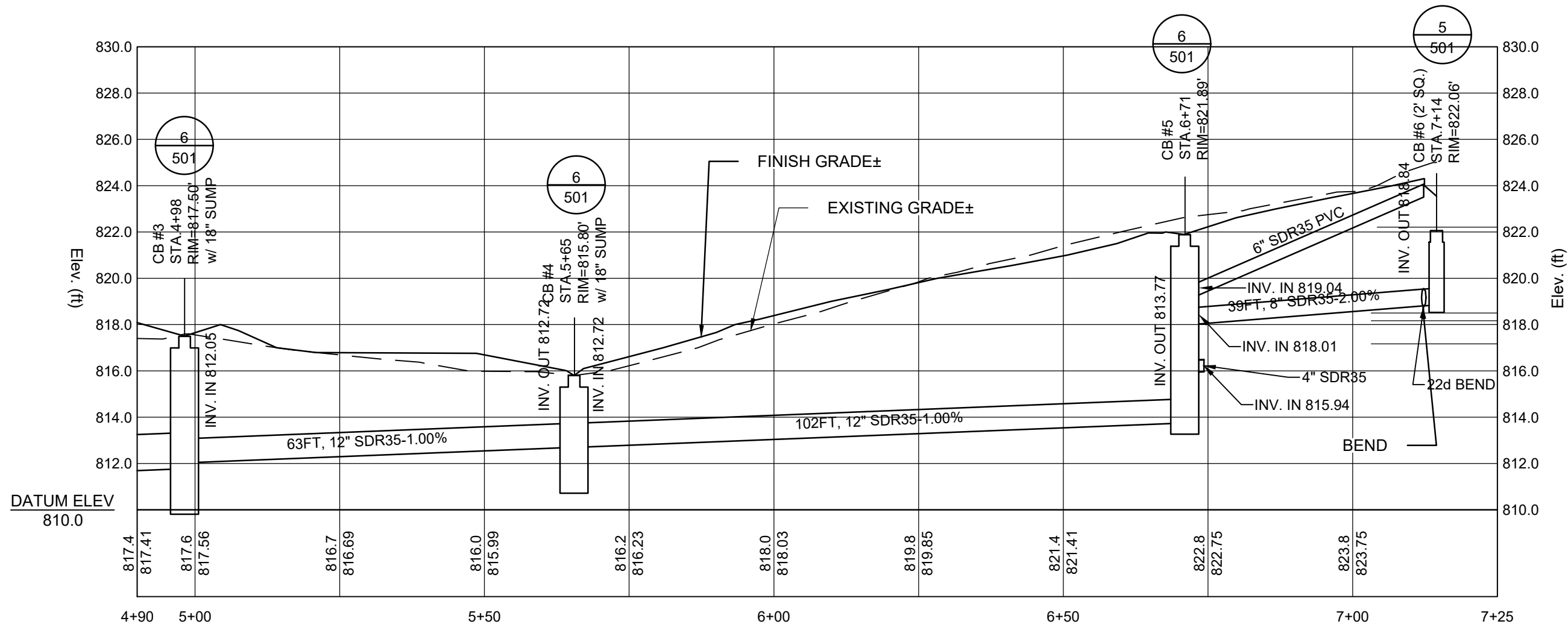
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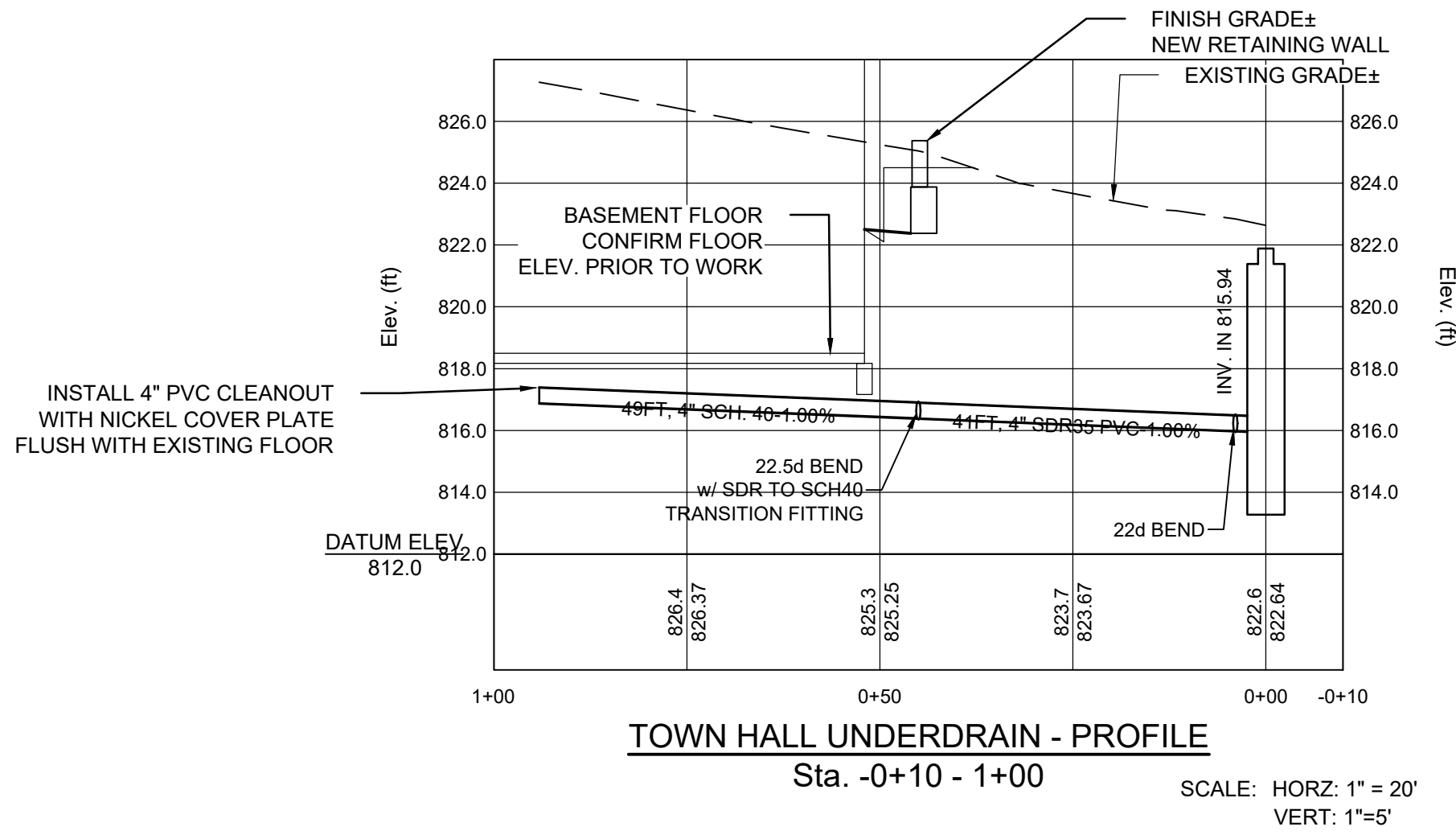
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DRAINAGE PLAN
SCALE: 1" = 20'

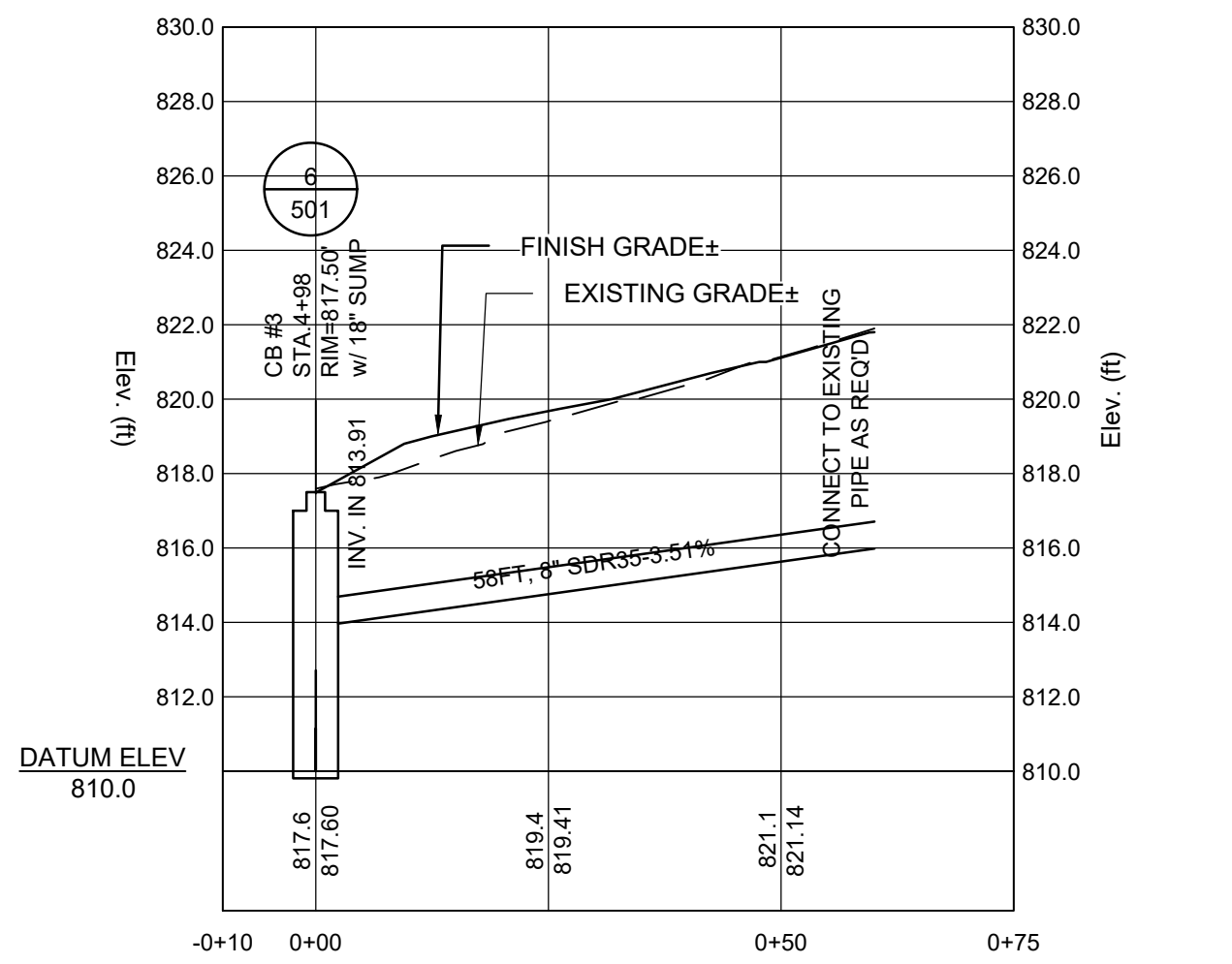


TOWN HALL DRAIN - 1 PROFILE
Sta. 4+90 - 7+25
SCALE: HORZ: 1" = 20'
VERT: 1"=5'



BUILDING UNDER DRAIN NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE TOWN OFFICE TO CLEAR THE INTERIOR SPACE FOR THE PROPOSED ALIGNMENT TO INSTALL THE UNDER DRAIN. THIS INCLUDES ISOLATING THE WORK AREA TO PROVIDE DUST CONTROL. ALL CUTTING OF THE INTERIOR FLOOR SHALL BE COMPLETED WITH CONCRETE SAWS AND SHALL BE CLEAN LINES.
2. THE CONTRACTOR SHALL ANTICIPATE THAT THE DRAINAGE ALIGNMENT WILL CROSS AN EXISTING BURIED 4-INCH BUILDING SEWER. ALL COORDINATION/REPAIR TO THE SEWER SHALL BE INCLUDED WITH THE COST OF THE WORK.
3. THE COST OF LAYOUT, CUTTING, EXCAVATION, BACKFILL AND CONCRETE FLOOR RESTORATION SHALL BE INCLUDED IN THE COST OF THE 4-INCH SCH 40 DRAIN.



TOWN HALL DRAIN - 2 PROFILE
Sta. -0+10 - 0+75
SCALE: HORZ: 1" = 20'
VERT: 1"=5'



PREPARED FOR: TOWN OF GROTON
Address: 1476 SCOTT HIGHWAY (US 302)

DRAINAGE PLAN STA. 5+00 TO 7+14, ETC.
HEALTH, SAFETY AND STORMWATER IMPROVEMENTS

REVISIONS		Date
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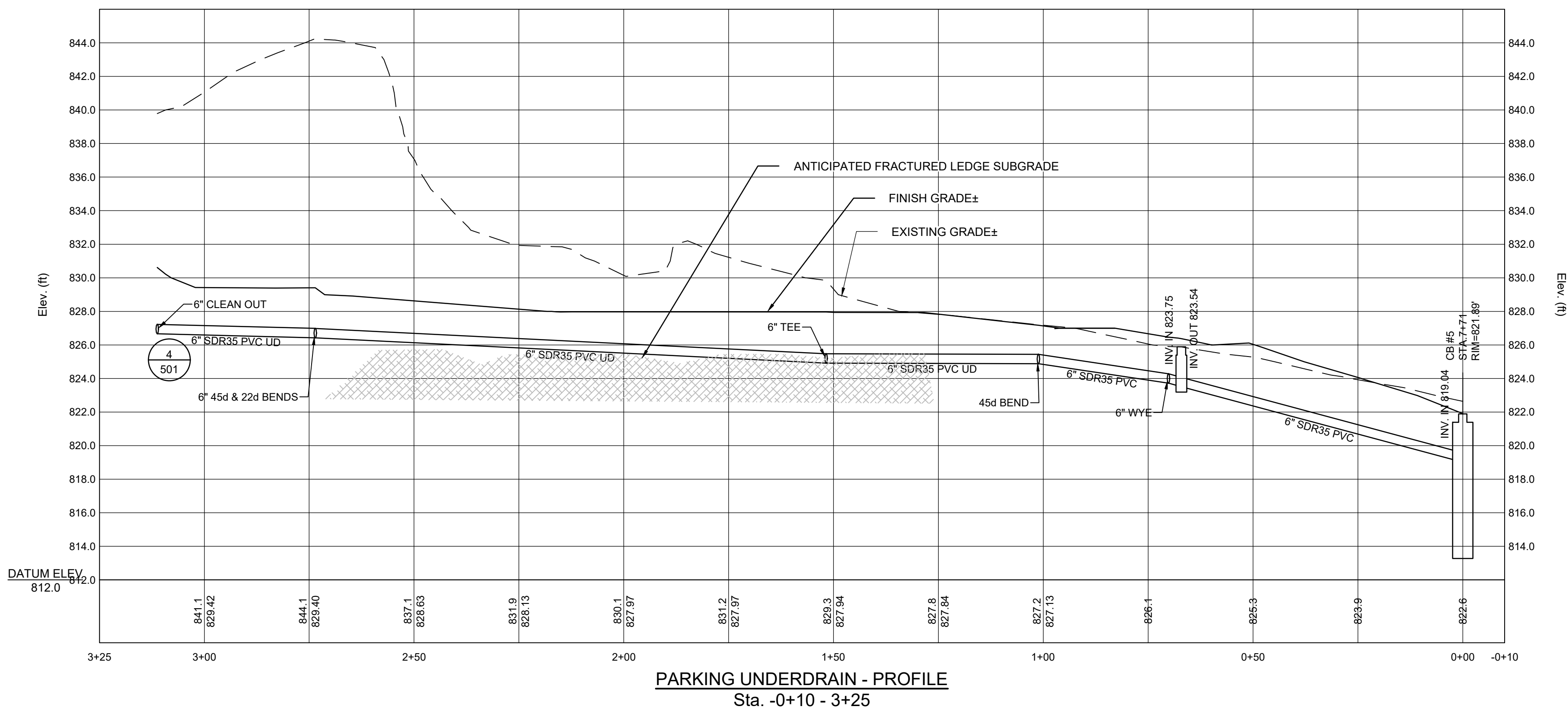
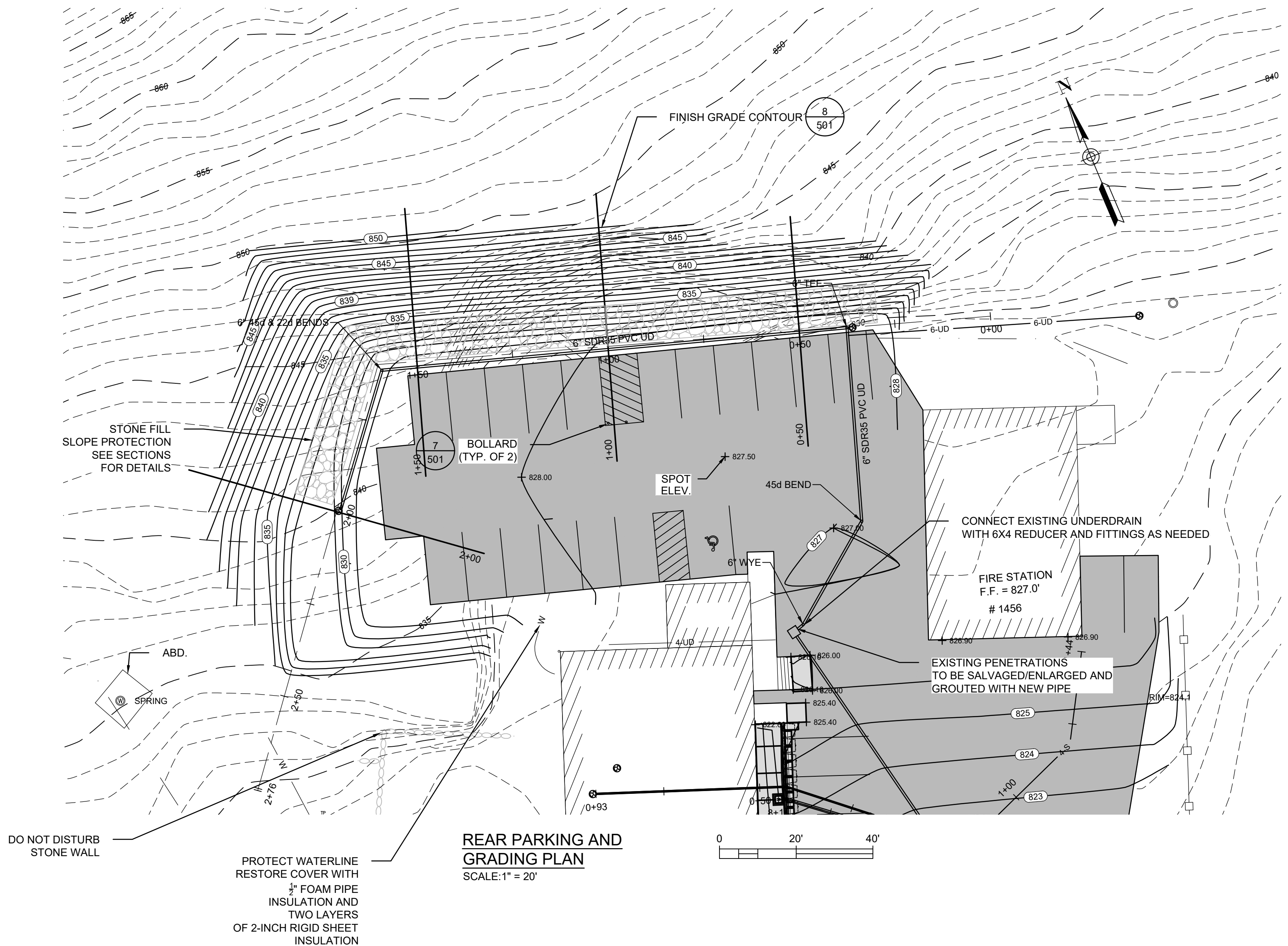
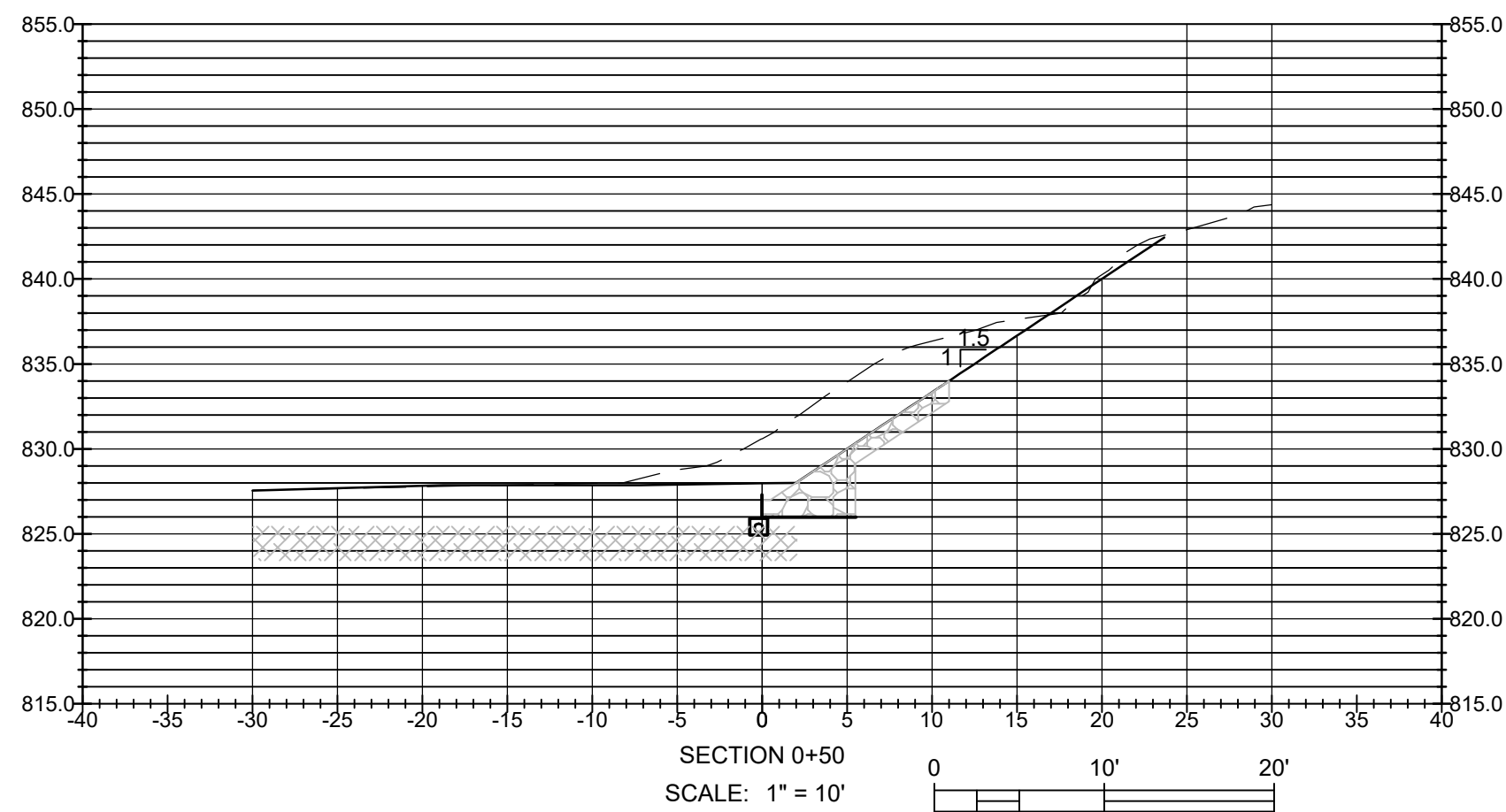
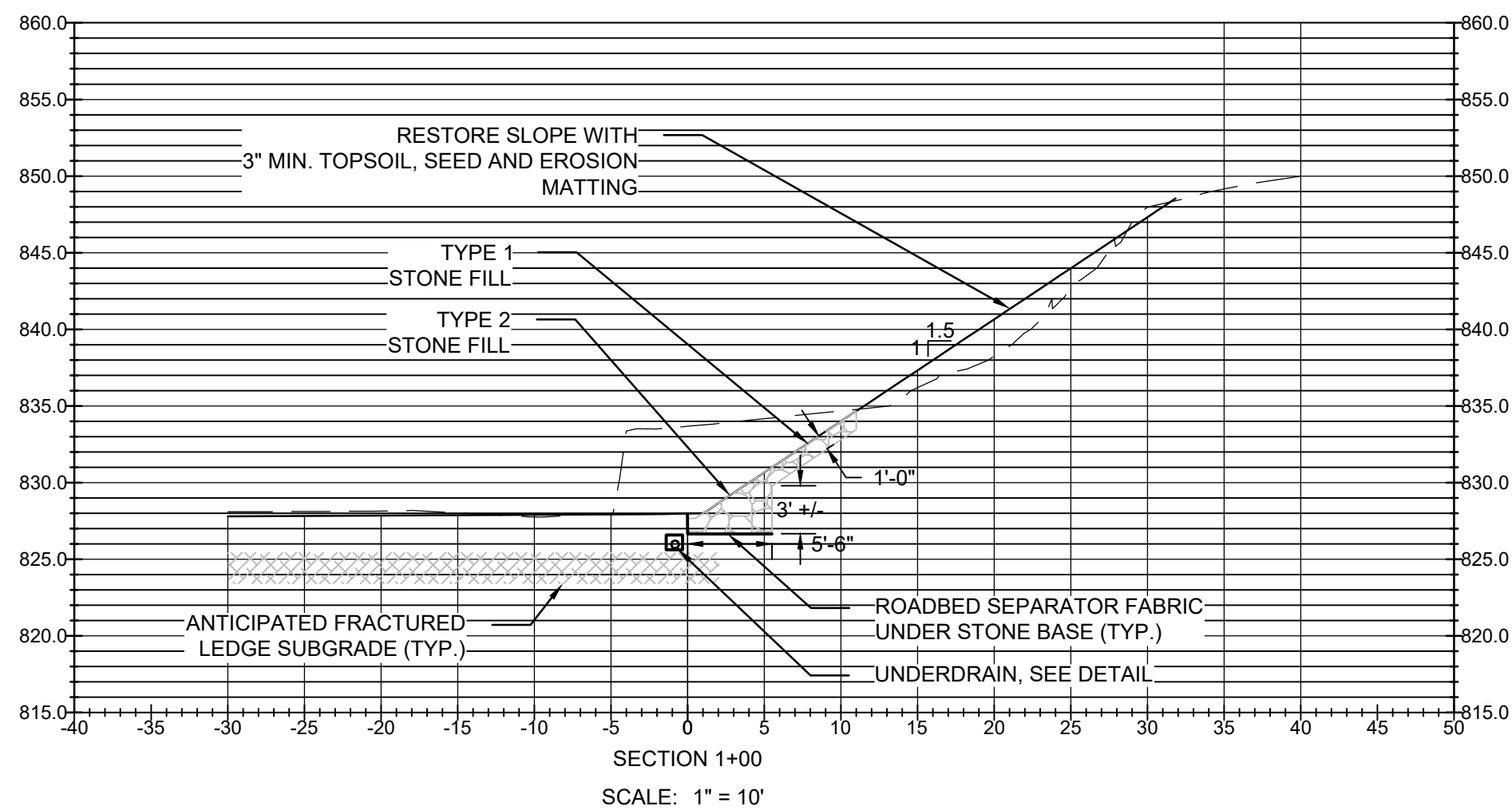
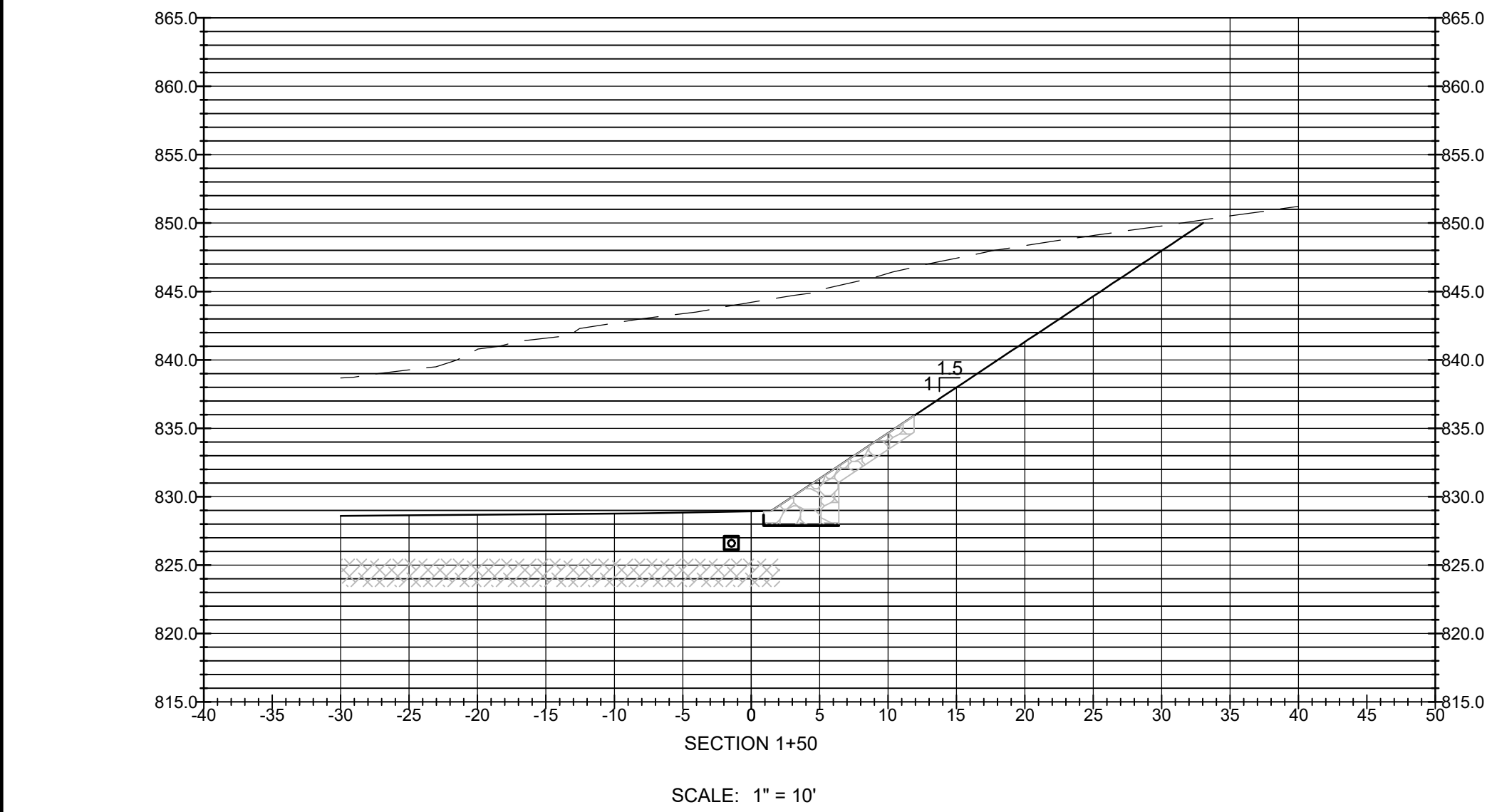
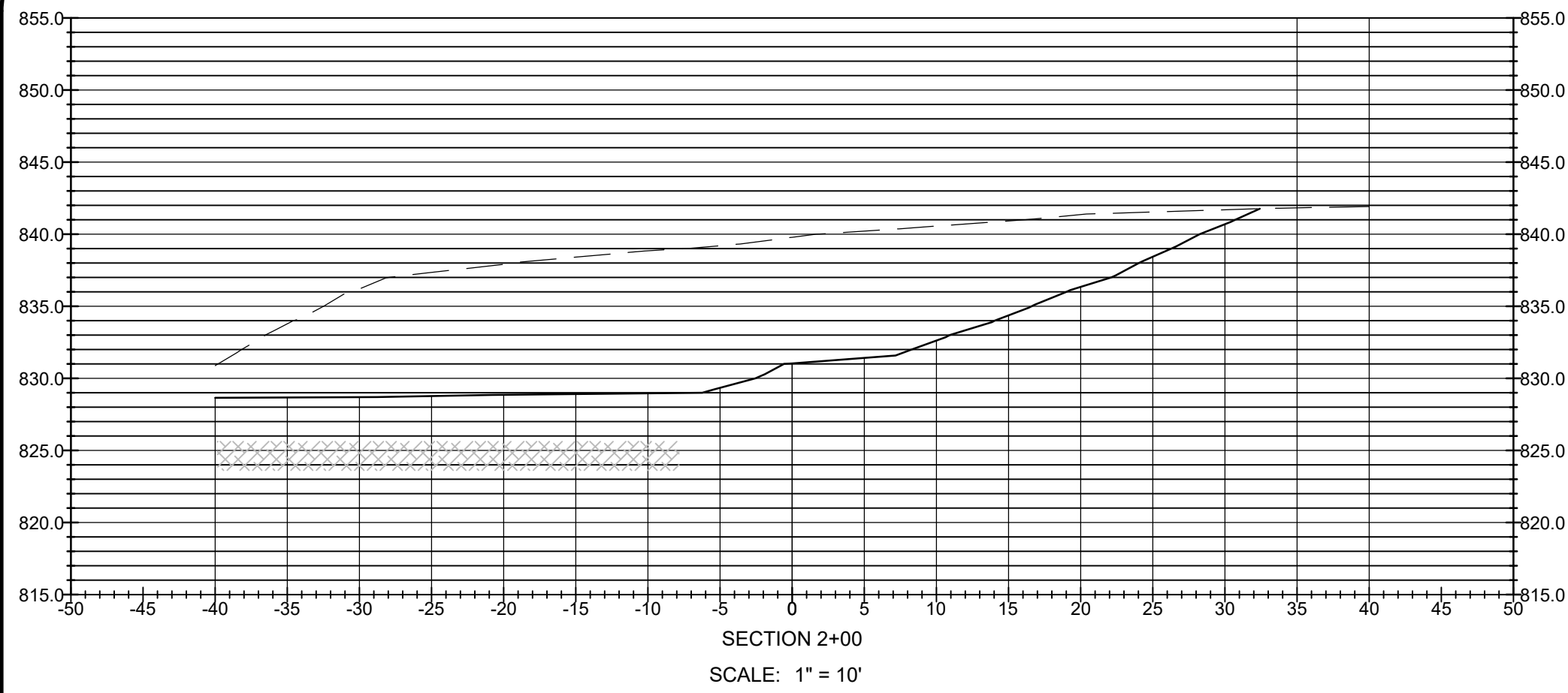
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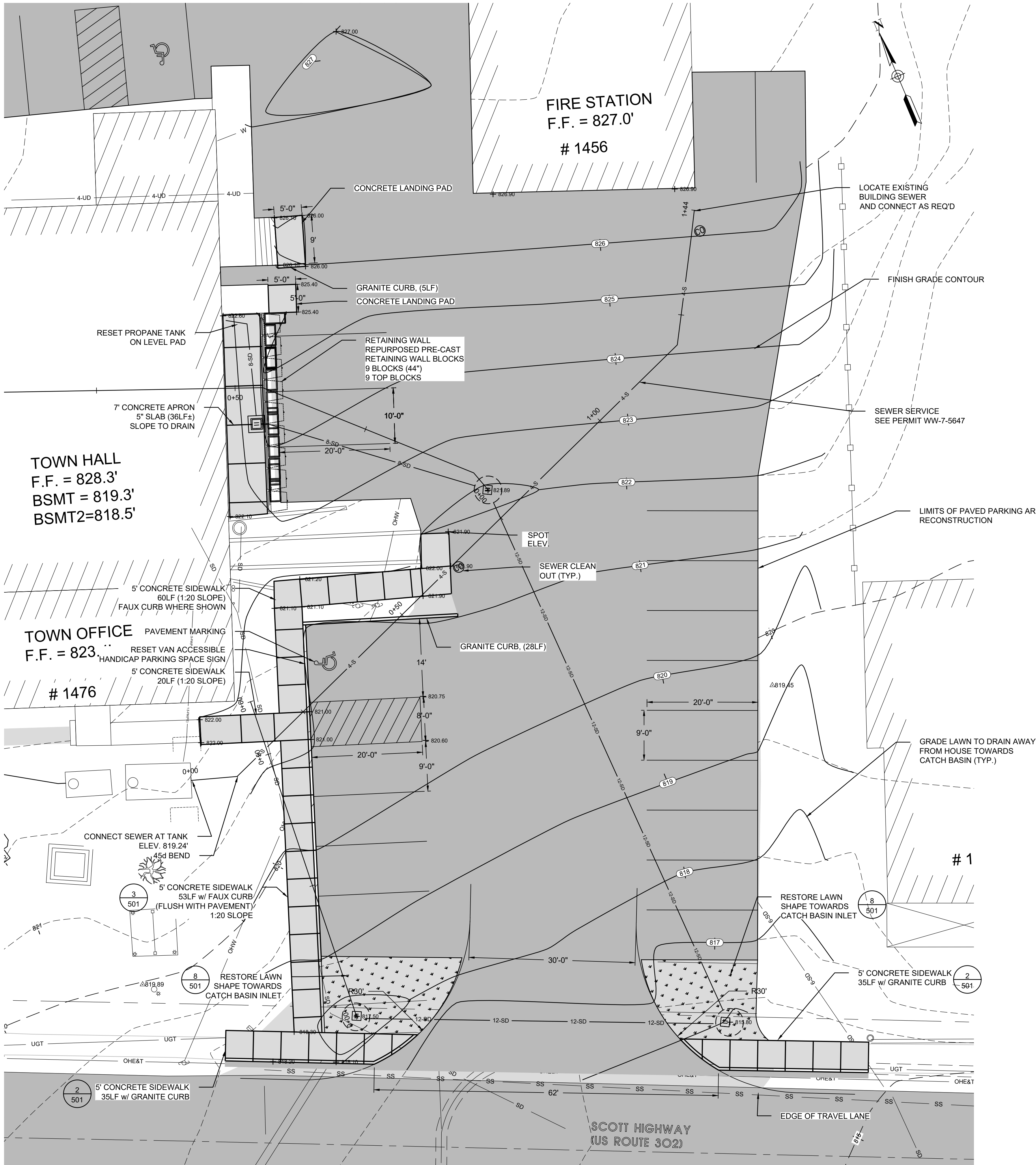
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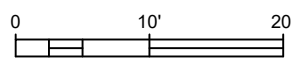
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PARKING AND ACCESS
IMPROVEMENT PLAN
SCALE: 1" = 10'

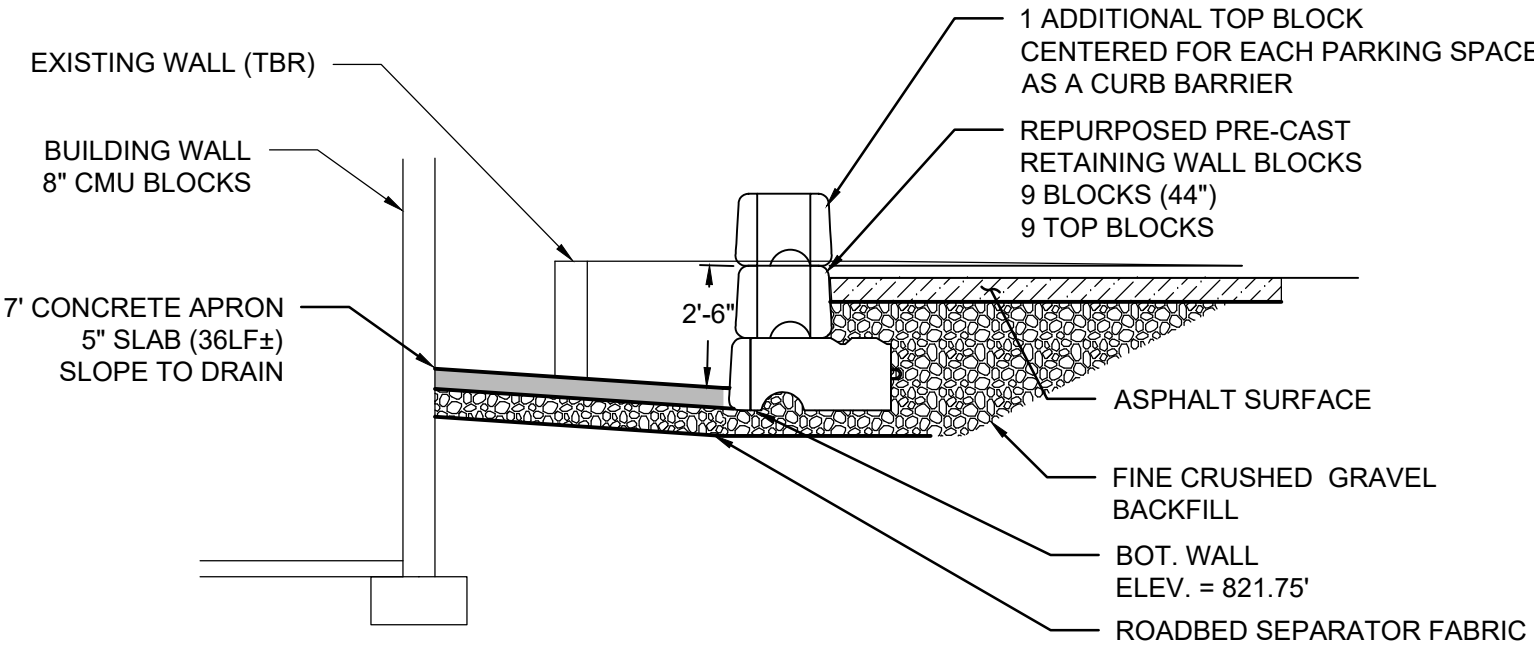


TRAFFIC CONTROL NOTES

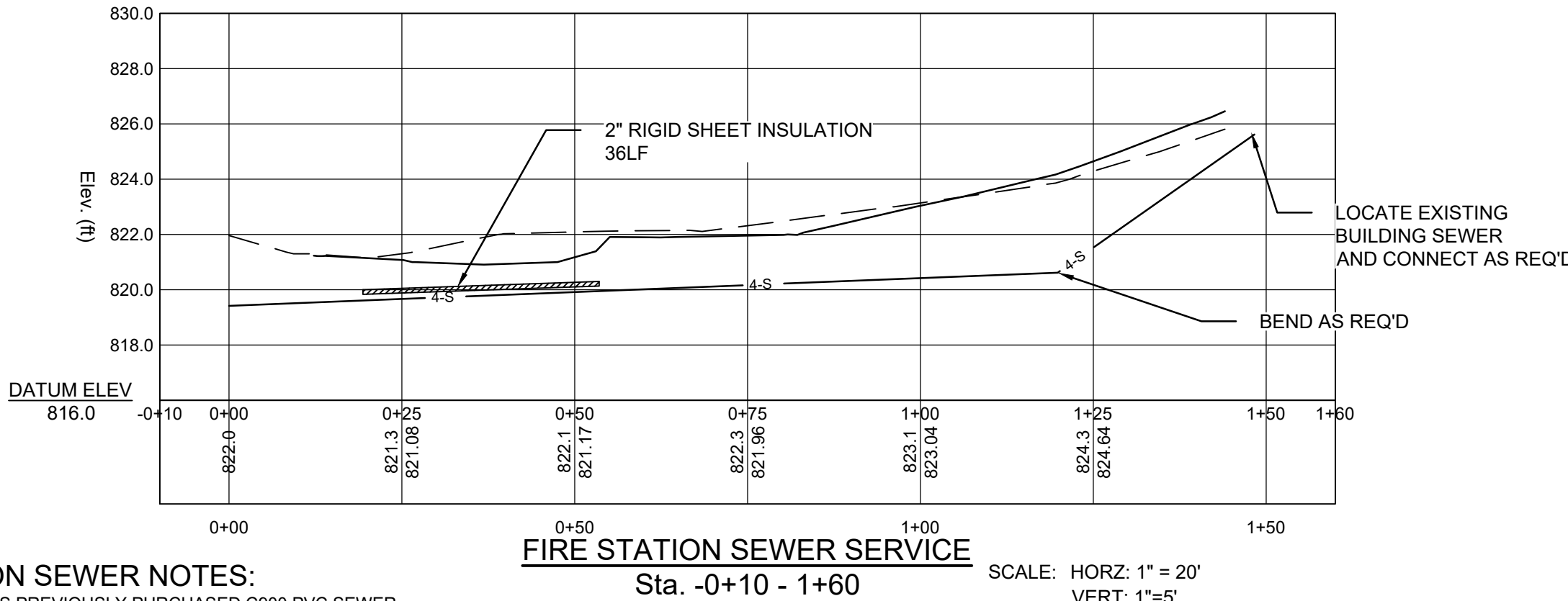
1. THIS PROJECT INCLUDES CONSTRUCTION WITHIN THE STATE HIGHWAY RIGHT OF WAY AND IS REQUIRED TO COMPLY WITH THE TOWNS 1111 PERMIT.
2. THE PROJECT IS NOT TO INTERFERE WITH TRAFFIC FLOW ON US 302 UNLESS TRAFFIC CONTROL IS APPROVED BY THE AGENCY OF TRANSPORTATION.
3. THE PROJECT WILL REQUIRE THE CONTRACTOR TO MAINTAIN A TRAFFIC CONTROL PLAN THROUGHOUT THE DURATION OF THE PROJECT.
4. TRAFFIC CONTROL SHALL COMPLY WITH TRANS. AND TOWN REQUIREMENTS AND AT MINIMUM THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.
5. PEDESTRIAN ACCESS WILL NEED TO BE MAINTAINED THROUGH THE WORK AREA, AT THE TOWN OFFICE AND DRIVEWAY.
6. WORK SHALL NOT ENCROACH INTO THE TRAVEL LANES OF US ROUTE 302.
7. NO UNIFORM TRAFFIC OFFICERS ARE PLANNED FOR THIS PROJECT.
8. THE CONTRACTOR SHALL USE THE MUTCD TYPICAL APPLICATION TA-6 (SHOULDER WORK WITH MINOR ENCROACHMENT). ADVANCED WARNING SIGNS SHALL INCLUDE "ROAD WORK AHEAD" AND "END ROAD WORK" SPACED AT 500 FEET BEFORE THE PROJECT.
9. SIGNS SHALL BE MOUNTED ON "MASH" APPROVED PORTABLE SIGN STANDS.
10. THE CONTRACTOR SHALL PROVIDE TRANS. AND THE TOWN WITH KEY PERSONNEL CONTACT INFO. THE KEY PERSONNEL SHALL HAVE THE AUTHORITY TO CORRECT ISSUES AND TO SHUT DOWN THE PROJECT IF THE TRAFFIC CONTROL ITEMS ARE NOT IN PLACE OR NOT UP TO TOWN, STATE OR MUTCD STANDARDS. ANY SIGNIFICANT CHANGES NEEDED FOR THE TRAFFIC CONTROL PLAN SHALL BE PRESENTED TO THE ENGINEER FOR APPROVAL.

PROPOSED PARKING NOTES:

1. 6 PARKING SPACES AND 1 VAN ACCESSIBLE ADA PARKING SPACE FOR TOWN OFFICE TRAFFIC. PARKING AREA TO BE LEVELLED FOR SLOPES THAT MEET ADA REQUIREMENTS.
2. PARKING TO BE MOVED BEHIND THE BUILDING FOR TOWN HALL AND GYM USE. PARKING TO INCLUDE 17 PLUS 1 ADA VAN ACCESSIBLE PARKING SPACE.
3. PARKING SHALL NOT BLOCK FIRE TRUCK MOVEMENT.
4. THIS PLAN REQUIRES THE REMOVAL OF APPROXIMATELY 2800 CUBIC YARDS OF HILLSIDE (NOT INCLUDING SWELL FACTORS). IT ALSO REQUIRES THE EXCAVATION SLOPE TO BE STABILIZED WITH RIPRAP AND A 6-INCH UNDERDRAIN. PORTIONS OF THIS SITE MAY BE CONSTRUCTED ON CRUSHED STONE OVER LEDGE.
5. REGRADE AND RECONSTRUCT 13,400 SF OF EXISTING ASPHALT DRIVE/PARKING AREA.
6. CONSTRUCT 8000 SF OF NEW PARKING AREA.



RETAINING WALL SECTION
SCALE: 1/4" = 1'



FIRE STATION SEWER NOTES:

1. THE TOWN HAS PREVIOUSLY PURCHASED C900 PVC SEWER PIPE AND FITTINGS TO CONNECT THE FIRE STATION SEWER TO THE BUILDING SEPTIC SYSTEM. THE CONTRACTOR SHALL INSTALL THE OWNER SUPPLIED MATERIALS. ANY MISSING OR INCOMPLETE COMPONENTS WILL BE PROVIDED BY THE TOWN AND THE TOWN WILL NOT BE RESPONSIBLE FOR ANY DELAYS REGARDING THE COORDINATION.
2. THE SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THIS PLAN AND THE PLANS THAT WERE PART OF PERMIT WW-7-5647.

FIRE STATION SEWER SERVICE

Sta. -0+10 - 1+60
SCALE: HORZ: 1" = 20'
VERT: 1" = 5'



TOWN OF GROTON
1476 SCOTT HIGHWAY (US 302)

PREPARED FOR:
Address

REVISIONS	Description	Date	
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Designed: NPS

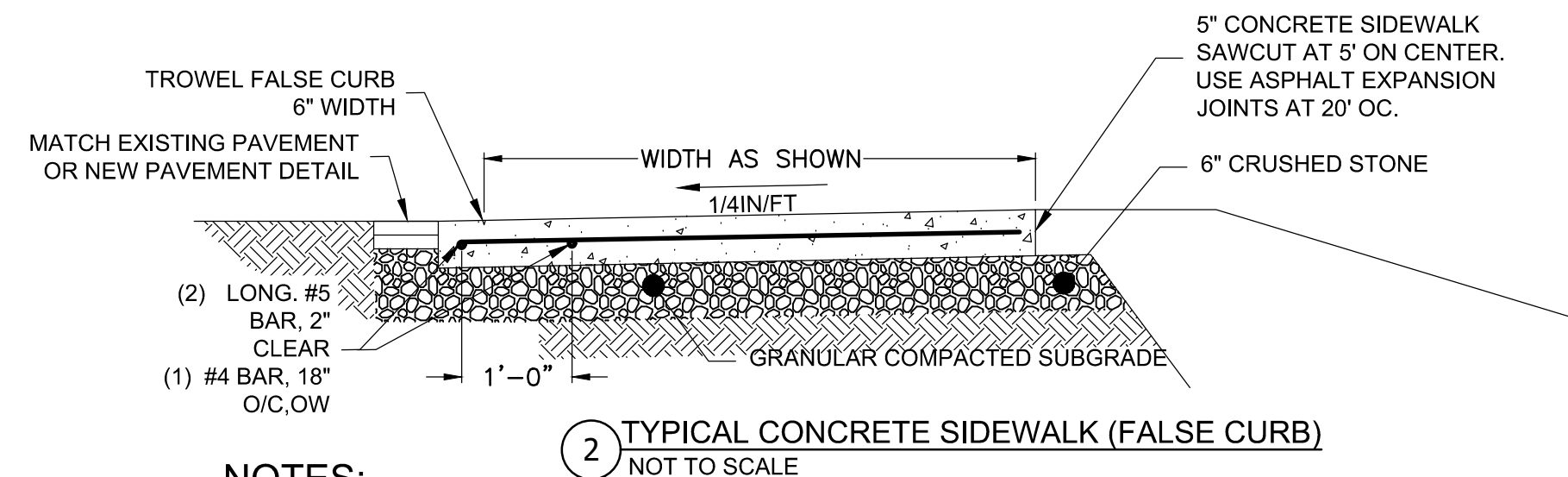
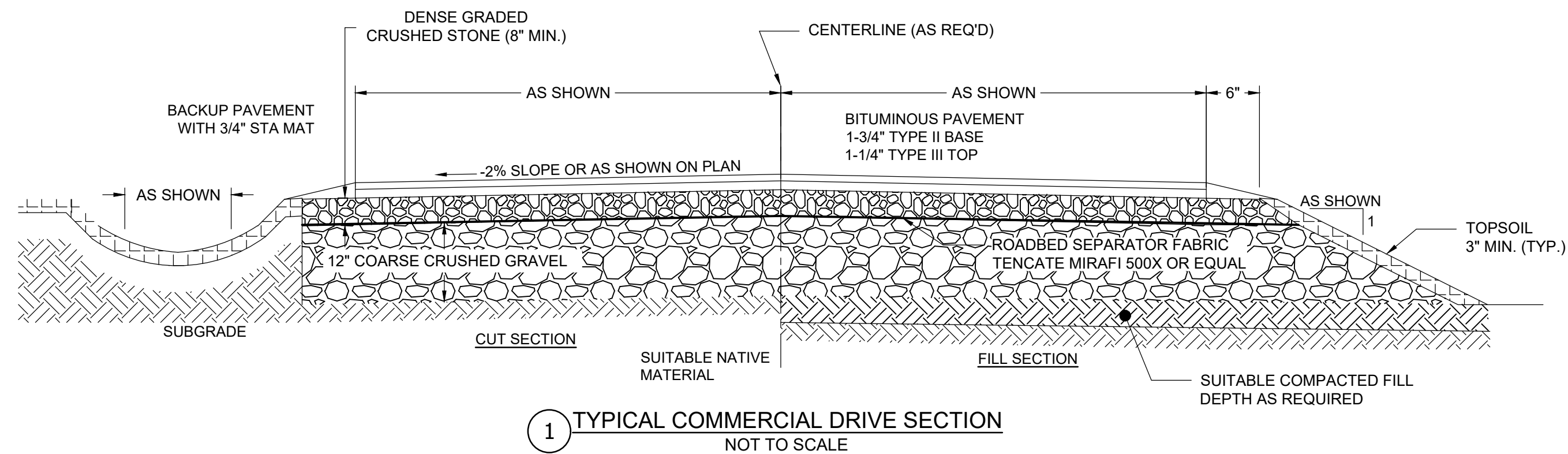
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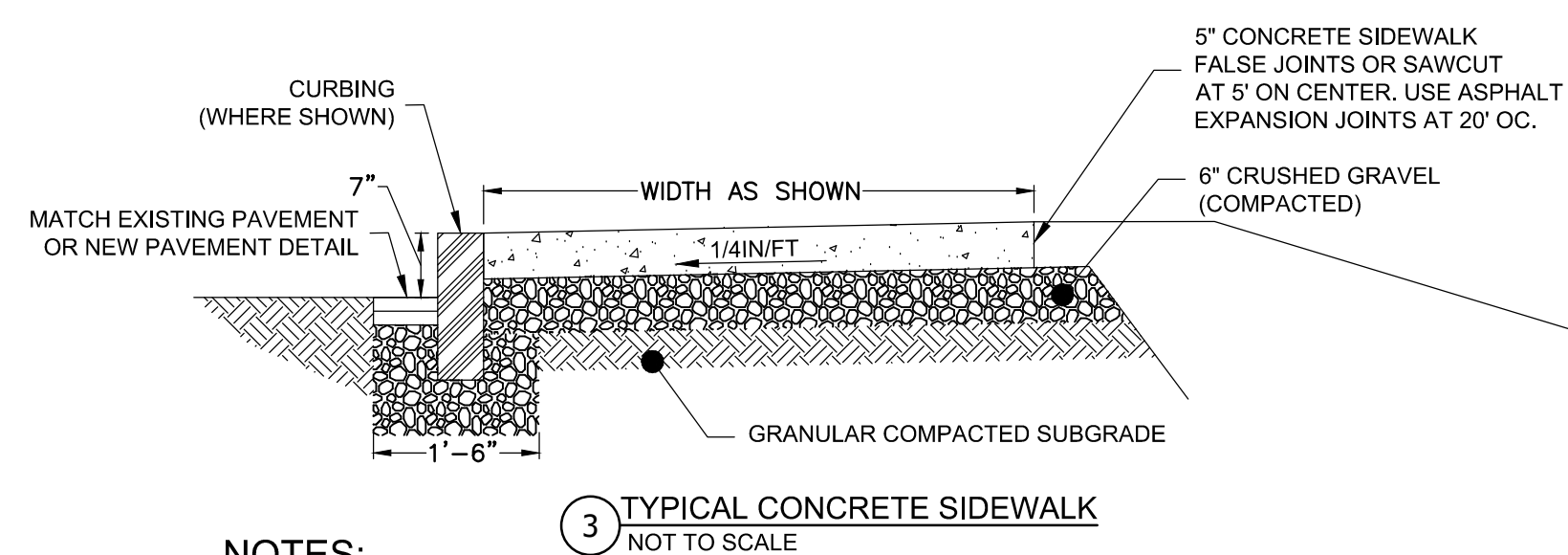
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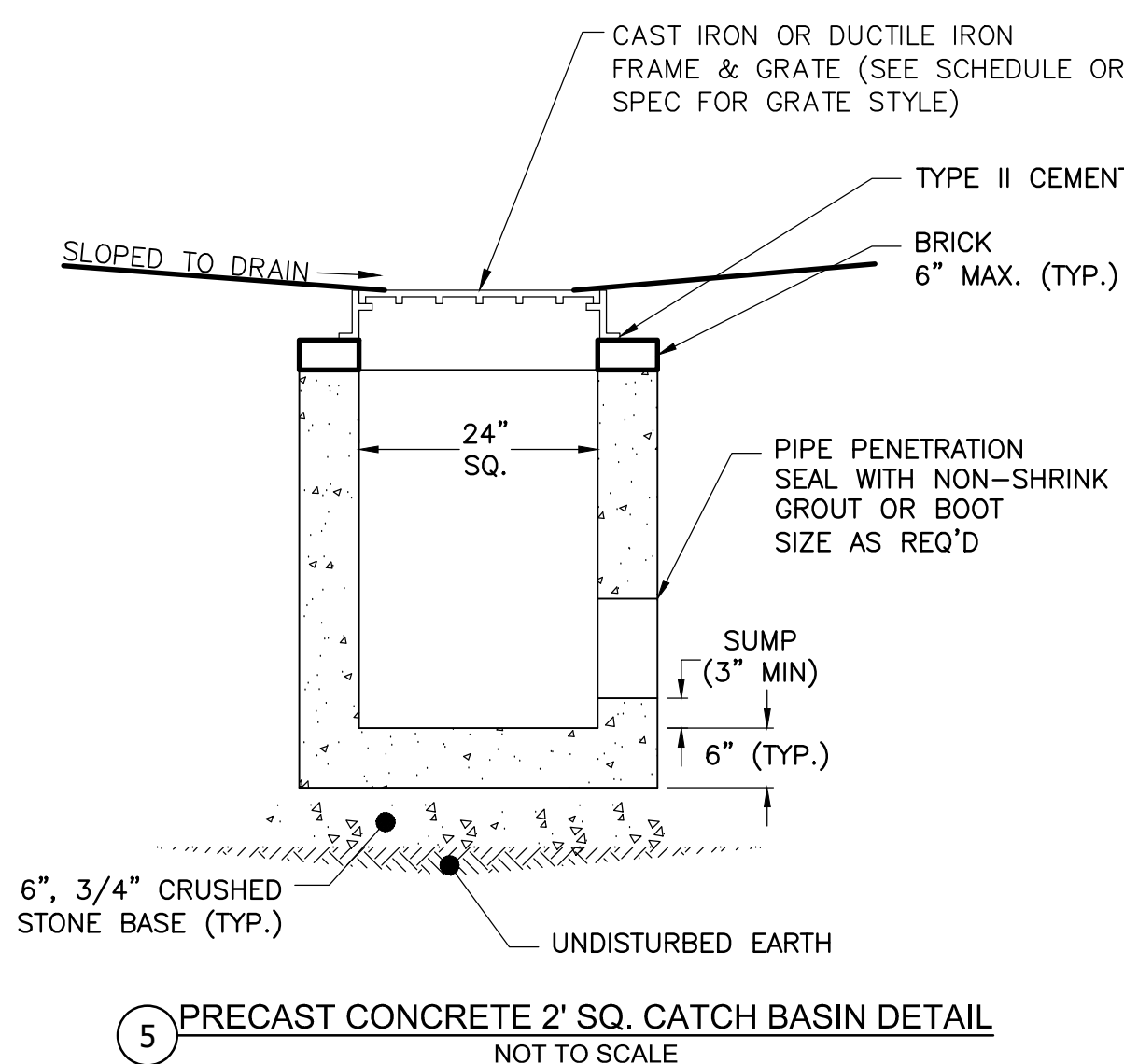
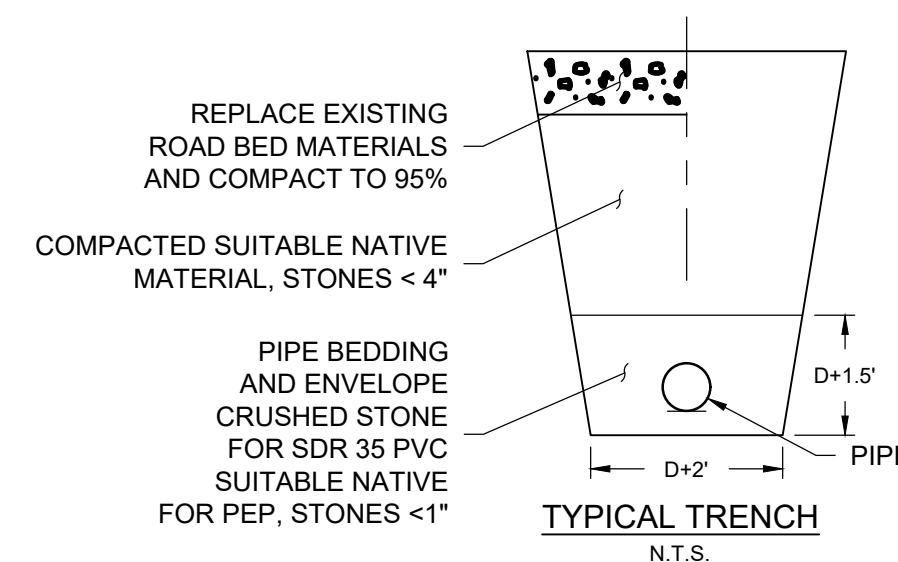
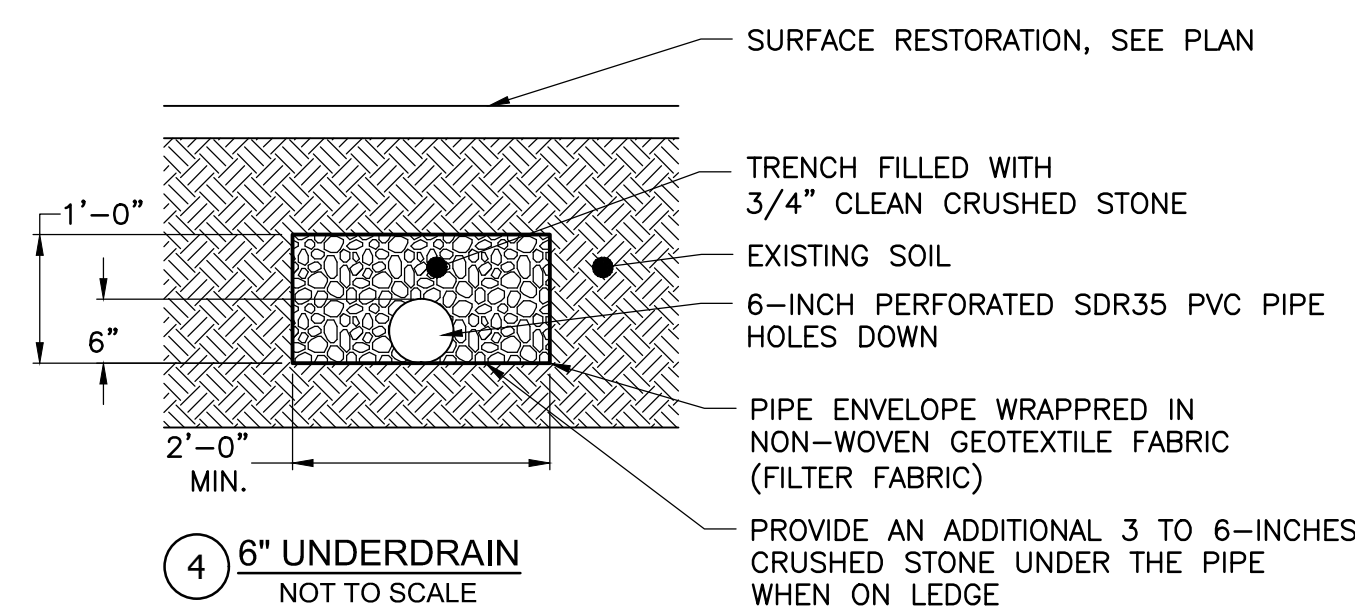
- NOTES:

1. SUBGRADE AND AGGREGATES SHALL BE COMPACTED TO 95%.
2. USE 3,500 PSI MIX, USE #4 REINFORCING BAR @ 12" O.C. ON END SLABS AND DRIVEWAY CROSSINGS. CONTRACTOR TO SUBMIT DESIGN PRIOR TO CONSTRUCTION.
3. USE CURING PROTECTION AND LIMIT TIME OF FINISHING CONCRETE AS MUCH AS POSSIBLE TO REDUCE RISK OF OVERWORKING THE FINISH SURFACE. FOLLOW ACI 308 HOT WEATHER CONCRETE PRACTICES. FOLLOW ACI 308 COLD WEATHER CONCRETE PRACTICES FOR CURE PROTECTION. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT SIDEWALK IS NOT DAMAGED DURING INITIAL CURING PROCESS (TYPICALLY FIRST 7 DAYS).
5. INSTALL DETECTABLE WARNING PADS AT ALL RAMPS AND CROSSWALK LOCATIONS.



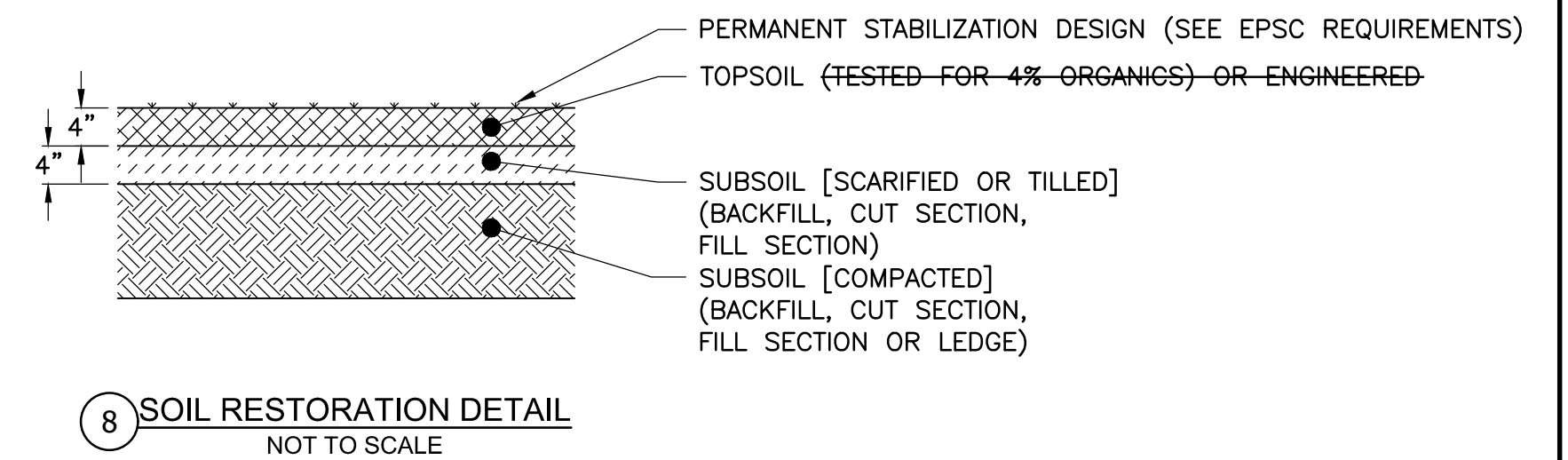
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3. USE CURING PROTECTION AND LIMIT TIME OF FINISHING CONCRETE AS MUCH AS POSSIBLE TO REDUCE RISK OF OVERWORKING THE FINISH SURFACE. FOLLOW ACI 308 HOT WEATH CONCRETE PROCEDURES FOR CURE PROTECTION. PROVIDE CURE LOGS FOR 35 DAYS.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT SIDEWALK IS NOT DAMAGED DURING INITIAL CURING PROCESS (TYPICALLY FIRST 7 DAYS).
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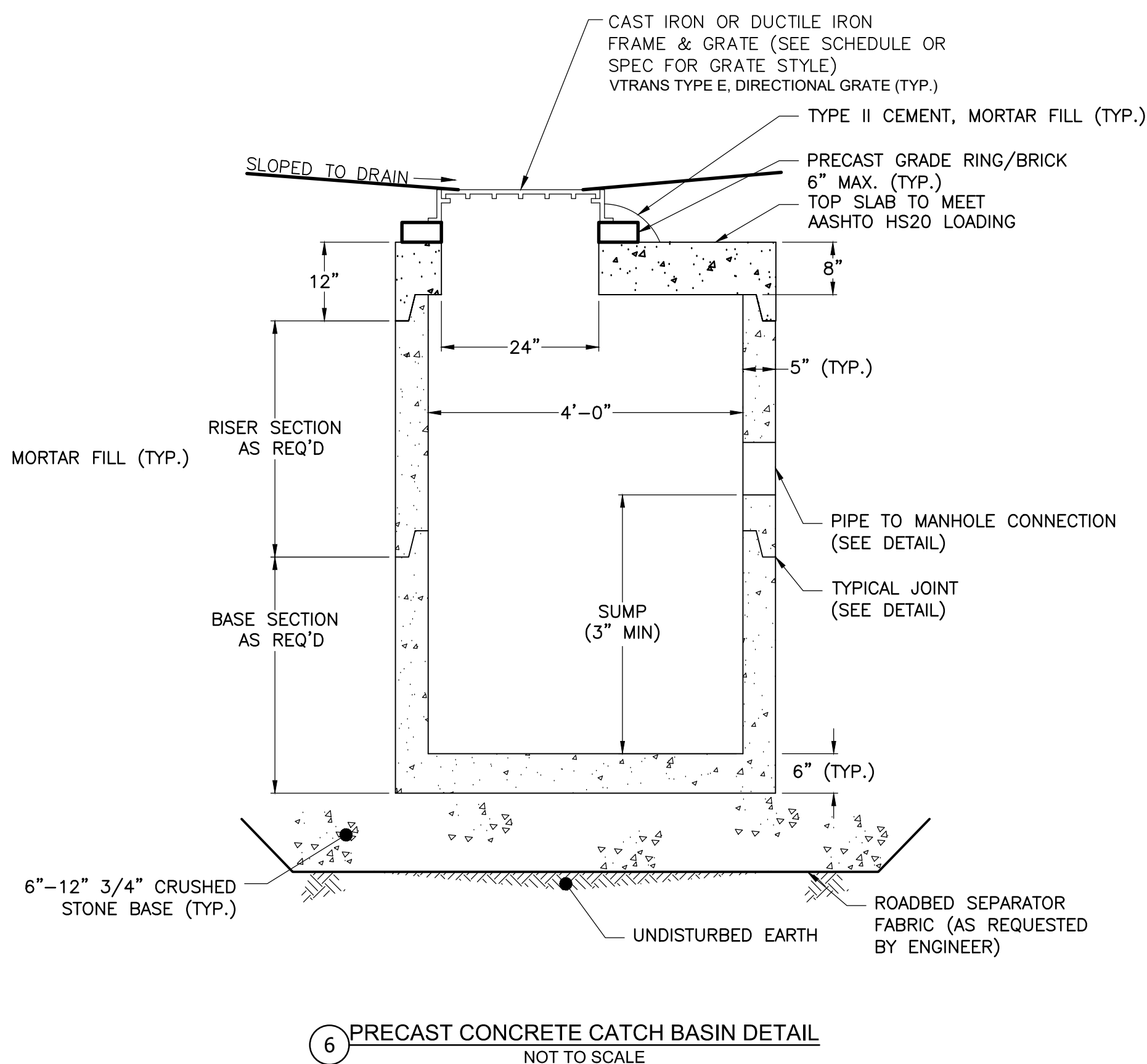
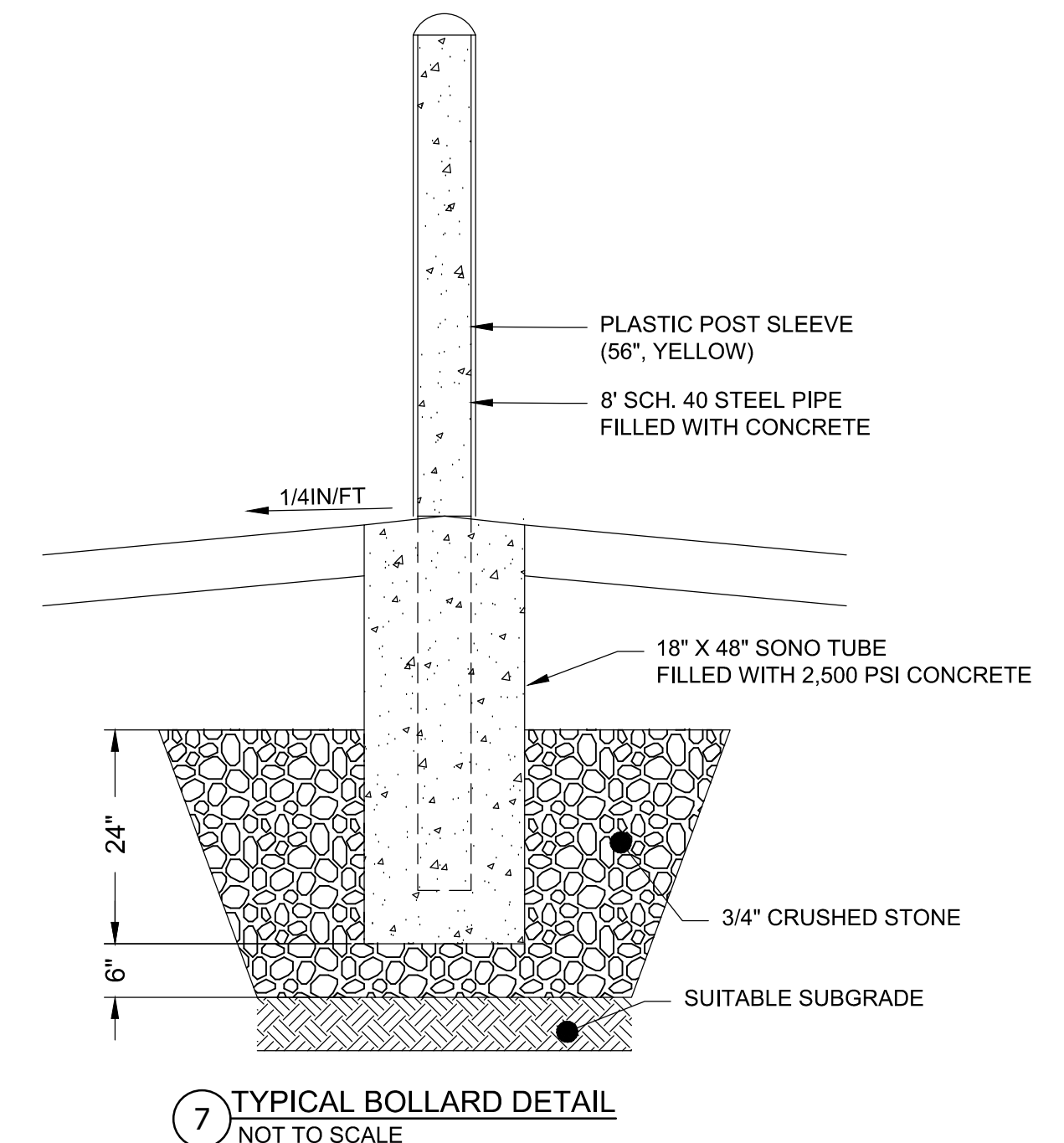


- NOTES:

1. PRECAST CONCRETE CATCH BASIN TO BE MANUFACTURED TO MEET OR EXCEED REQUIREMENTS OF ASTM C-478 & AASHTO M-199 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM @ 28 DAYS, PER ASTM C-478 (6.1). CEMENT TO BE TYPE III, PER ASTM C-150.



NOTES:
SEE SOIL RESTORATION AND TESTING NOTES.



- NOTES:

1. PRECAST CONCRETE CATCH BASIN TO BE MANUFACTURED TO MEET OR EXCEED REQUIREMENTS OF ASTM C-478 & AASHTO M-199 SPECIFICATIONS.
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