

ABBREVIATIONS

| | |
|--------|------------------------------------|
| BL | BITUMINOUS |
| B.O.S. | BOTTOM OF STONE |
| C# | ALIGNMENT CURVE NUMBER |
| Conc. | CONCRETE |
| CL&P | CONNECTICUT LIGHT AND POWER |
| CPEP | CORRUGATED POLYETHYLENE PIPE |
| EL. | ELEVATION |
| H.P. | HIGH POINT |
| INV. | INVERT |
| L# | ALIGNMENT LINE NUMBER |
| NF | NOW OR FORMERLY |
| PERF. | PERFORATED |
| RCP | REINFORCED CONCRETE PIPE |
| STA. | STATION |
| SNET | SOUTHERN NEW ENGLAND TELEPHONE CO. |
| T.O.P. | TOP OF PIPE |
| T.O.W. | TOP OF WALL |
| TYP. | TYPICAL |

LEGEND

| Existing | | PROPOSED |
|----------|------------------|----------|
| | TREE LINE | |
| | CATCH BASIN | |
| | STORM PIPE | |
| | SEDIMENT BARRIER | |
| | GRADE TO DRAIN | |

SCHEDULE OF DRAWINGS

| SHEET No. | TITLE |
|-----------|---|
| 1 OF 4 | COVER SHEET |
| 2 OF 4 | SITE PLAN |
| 3 OF 4 | PROJECT NOTES AND DETAILS |
| 4 OF 4 | EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS |

TOWN OF
BOLTON
CONNECTICUT

LORI ROAD
DRAINAGE
IMPROVEMENTS

BOARD OF SELECTMEN

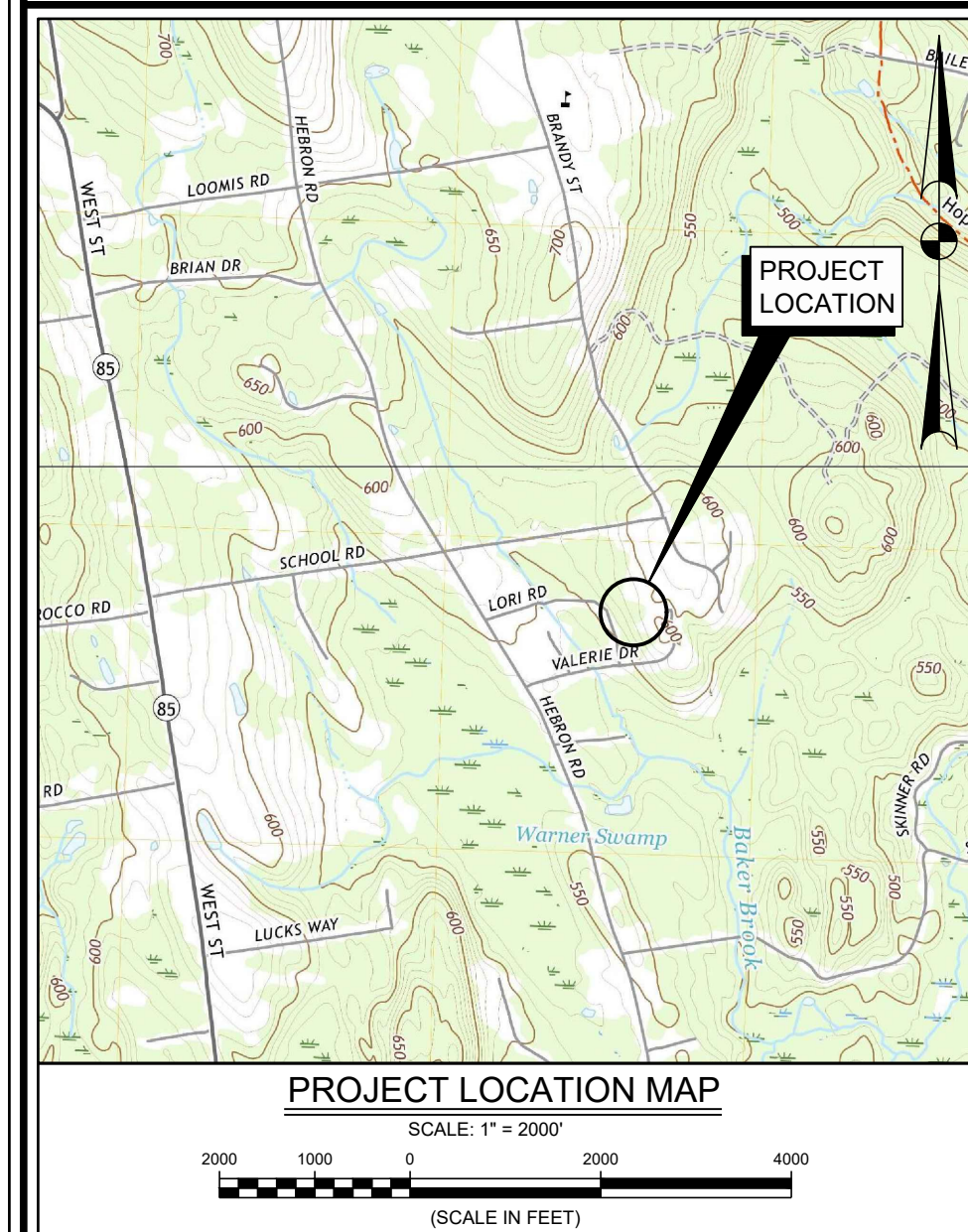
RODNEY FOURNIER, FIRST SELECTMAN
PAMELA SAWYER
TIMOTHY SADLER
ROBERT MORRA
MATHER CLARKE
AMANDA GORDON
GWEN MARRION

TOWN ADMINISTRATOR

JAMES RUPERT

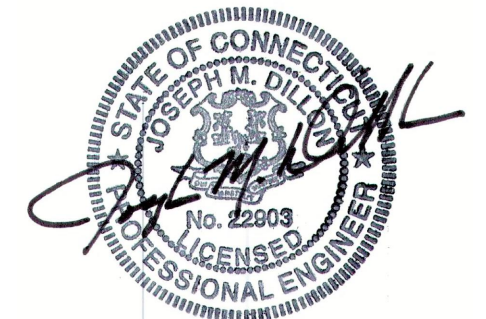
ROAD FOREMAN

A.J. GOLDEN



CONTRACT DOCUMENTS
SEPTEMBER 2024

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Consulting Civil and Environmental Engineers Since 1972



JOSEPH M. DILLON, P.E.
CT REGISTRATION No. 22903



NOTES:
 1. SEE SHEET 3 FOR PROJECT NOTES AND DETAILS.

GRAPHIC SCALE
 0 10 20 30 40 50
 SCALE: 1"=30'

TOWN OF
 BOLTON, CONNECTICUT
 LORI ROAD
 DRAINAGE
 IMPROVEMENTS

SITE PLAN

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| No. | DESCRIPTION | DATE |
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|----------------------------|------------|
| DATE: SEPTEMBER 2024 | SHEET No.: |
| SCALE: 1"=30' | 2 OF 4 |
| PROJECT No.: 09630048 | |
| CADD FILE: 09630048-Aerial | |
| DESIGNED: JMD | |
| DRAWN: CEB | |
| CHECKED: WMT | |

I:\CADD\2024\09\09630048_Aerial.dwg, 9/10/2024, 11:03:47 AM, AutoCAD PDF (General Documentation).pc3

PROJECT NOTES:

- SWEEPING: SWEEP OFF APPROACH ROADWAY DAILY FROM TRACKED DIRT AND DEBRIS FROM CONSTRUCTION ACTIVITIES.
- STOCKPILES: INSTALL EROSION CONTROLS AROUND THE BASE OF ALL STOCKPILES, AND TEMPORARILY SEED OR COVER THE PILES WITH AN IMPERVIOUS COVER IF THEY WILL REMAIN ON THE SITE LONGER THAN ONE MONTH.
- CONSTRUCTION VEHICLES: NO CONSTRUCTION VEHICLES WILL BE STORED, SERVICED, REFUELED, WASHED, OR FLUSHED OUT IN A LOCATION WHERE LEAKS, SPILLAGE, WASTE MATERIALS, CLEANERS, OR WATERS WILL BE INTRODUCED OR FLOW INTO WETLANDS OR WATERCOURSES.
- SPILL KIT: PROVIDE AND MAINTAIN A SUPPLY OF ABSORBENT SPILL RESPONSE BOOMS AND BLANKETS ON-SITE FOR THE ENTIRE CONSTRUCTION PERIOD.
- CONTAMINANT SPILLS: SHOULD ANY CONTAMINANT SPILL OCCUR, IMMEDIATELY NOTIFY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, OIL AND CHEMICAL SPILL RESPONSE DIVISION AT 860-424-3338 AND THE ENGINEER.
- EQUIPMENT MAINTENANCE AND REFUELING: DURING CONSTRUCTION, ROUTINE EQUIPMENT MAINTENANCE AND REFUELING SHALL OCCUR AWAY FROM STORMWATER CATCH BASINS ON IMPERVIOUS SURFACE WITH OIL ABSORBENT SPILL RESPONSE MATERIALS IN PLACE. NON-ROUTINE MAINTENANCE OF EQUIPMENT SHALL BE CONDUCTED OFF-SITE. SHOULD ANY CONTAMINANT SPILL OCCUR, IMMEDIATELY NOTIFY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, OIL AND CHEMICAL SPILL RESPONSE DIVISION AT 860-424-3338 AND THE ENGINEER.
- FUEL STORAGE: BULK FUEL FOR CONSTRUCTION PURPOSES SHALL NOT BE STORED ON-SITE.
- HAZARDOUS MATERIAL STORAGE: DURING CONSTRUCTION, ALL OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHALL BE STORED OFF-SITE, OR IF ON-SITE, THEN WITHIN A SECONDARY CONTAINMENT STRUCTURE WITH AN IMPERVIOUS FLOOR THAT WILL BE SECURED DURING NON-WORKING HOURS.
- TREES: TREES AND VEGETATION TO BE REMOVED MAY NOT ALL BE SHOWN. IN ALL CASES, CLEARING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO PERFORM THE CONSTRUCTION AS SHOWN ON THE DRAWINGS. TREES TO BE REMOVED SHALL BE INDIVIDUALLY VERIFIED IN THE FIELD WITH THE ENGINEER PRIOR TO THE DISTURBANCE.
- MATERIAL DISPOSAL: SURPLUS OR UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL ORDINANCES, RULES, REGULATIONS AND CODES.
- UNDERGROUND UTILITIES: FOR LOCATION OF UNDERGROUND ELECTRIC, TELEPHONE, GAS, CABLE TV AND OTHER FACILITIES OF PUBLIC UTILITY COMPANIES, INQUIRE OF "CALL BEFORE YOU DIG, INC." AT 1-800-922-4455.
- UTILITIES: PROTECT AND MAINTAIN ALL EXISTING UTILITIES LOCATED WITHIN THE VICINITY OF THE CONSTRUCTION SITE. UNLESS OTHERWISE NOTED, IF ANY UTILITY IS DAMAGED OR SERVICE INTERRUPTED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES INCLUDING RESTORING SERVICE IN A SAFE MANNER, TO THE COMPLETE SATISFACTION OF THE UTILITY OWNER AND THE ENGINEER.

ELECTRIC - EVERSOURCE ENERGY
 TELEPHONE - FRONTIER COMMUNICATIONS OF CONNECTICUT
 CABLE TELEVISION - COMCAST OF CONNECTICUT, INC.
 GAS - ALGONQUIN GAS

INFORMATION OR DATA SHOWN ON OR INDICATED IN THE CONTRACT DOCUMENTS WITH RESPECT TO EXISTING UNDERGROUND PIPES, CABLES, CONDUITS, STRUCTURES OR OTHER UNDERGROUND FACILITIES IS BELIEVED TO BE REASONABLY CORRECT BUT IS NOT GUARANTEED TO BE EXACT OR COMPLETE. SUCH INFORMATION SHALL BE CONSIDERED TO HAVE BEEN PROVIDED FOR THE CONVENIENCE OF THE CONTRACT AND TO ALERT THE CONTRACTOR TO THE EXISTENCE OF SUCH UNDERGROUND FACILITIES WITHIN OR CONTIGUOUS TO THE PROJECT SITE AND THE TOWN ENGINEER AND THEIR CONSULTANTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA.

THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL INFORMATION AND DATA DESCRIBED ABOVE, FOR LOCATING ALL SUCH UNDERGROUND FACILITIES SHOWN OR INDICATED IN THE CONTRACT DOCUMENTS, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION, FOR THE SAFETY AND PROTECTION THEREOF, AND FOR REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK, THE COST OF ALL WHICH WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE.

THE CONTRACTOR SHALL BE LIABLE FOR ALL DAMAGES AND CLAIMS RECEIVED OR SUSTAINED BY ANY PERSONS, CORPORATIONS OR PROPERTY IN CONSEQUENCE OF THE DAMAGE TO EXISTING UTILITIES, ROADWAYS, THEIR APPURTENANCES, OR OTHER FACILITIES CAUSED DIRECTLY OR INDIRECTLY BY THE OPERATIONS OF THE CONTRACTOR.

13. SITE DISTURBANCE: SITE DISTURBANCE SHALL BE KEPT TO A MINIMUM.

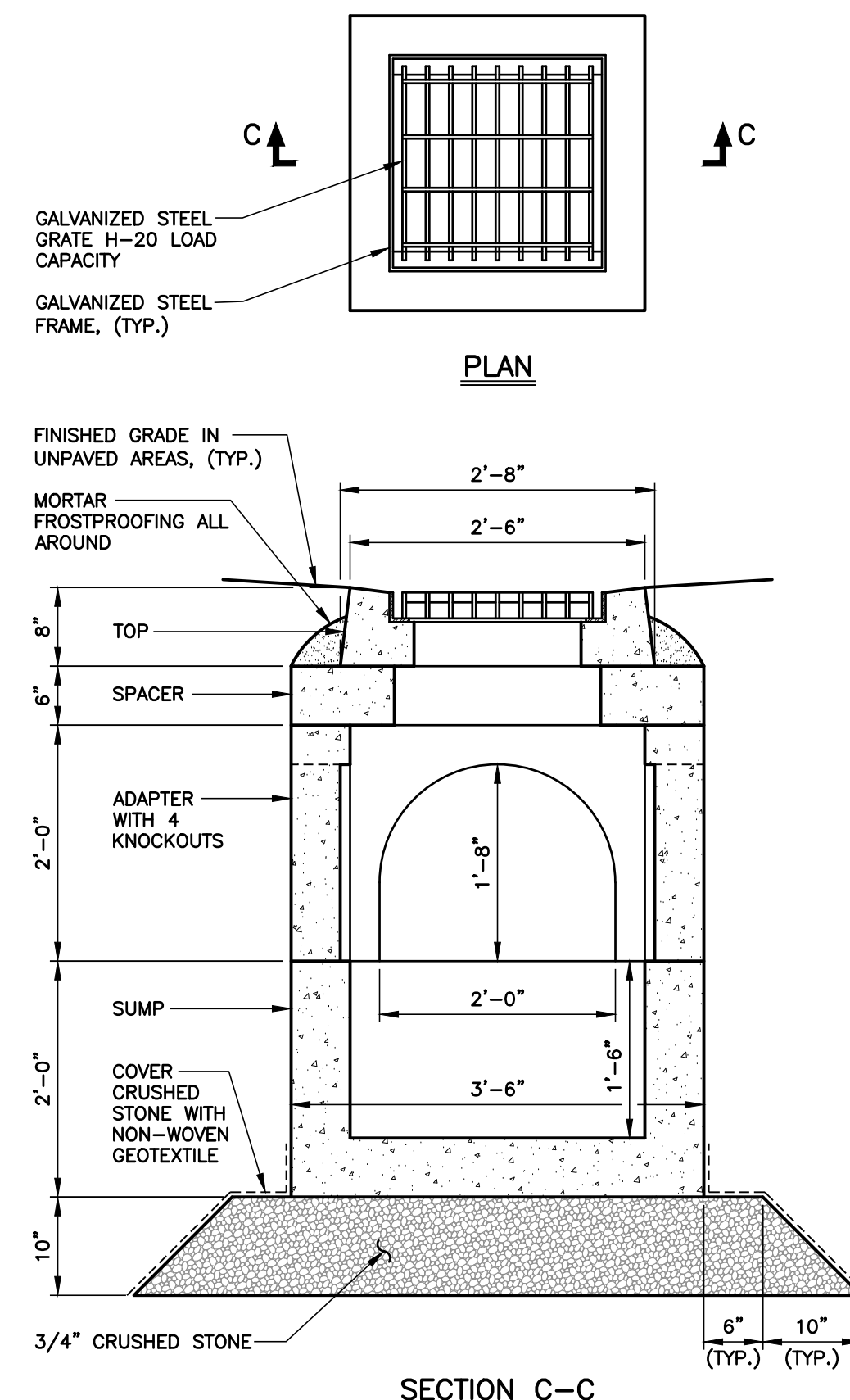
14. SITE FEATURES: NEATLY REMOVE, STORE AND PROTECT AS APPLICABLE, AND REINSTALL OR REPLACE AS APPLICABLE, EXISTING SITE FEATURES DISTURBED BY CONSTRUCTION, REQUIRED FOR FINISHED CONSTRUCTION.

15. NOISE: PROPERLY CONTROL MUFFLERS AND NOISE CONTROL DEVICES. REPLACE DEFECTIVE DEVICES AS NECESSARY, AND LOCATE DEWATERING PUMPS AS FAR AS POSSIBLE FROM RESIDENTIAL STRUCTURES, SO AS TO MINIMIZE THE AMOUNT OF NOISE GENERATED AT THE SITE THAT WILL REACH RESIDENTIAL STRUCTURES.

16. CONTRACTOR SHALL BE:

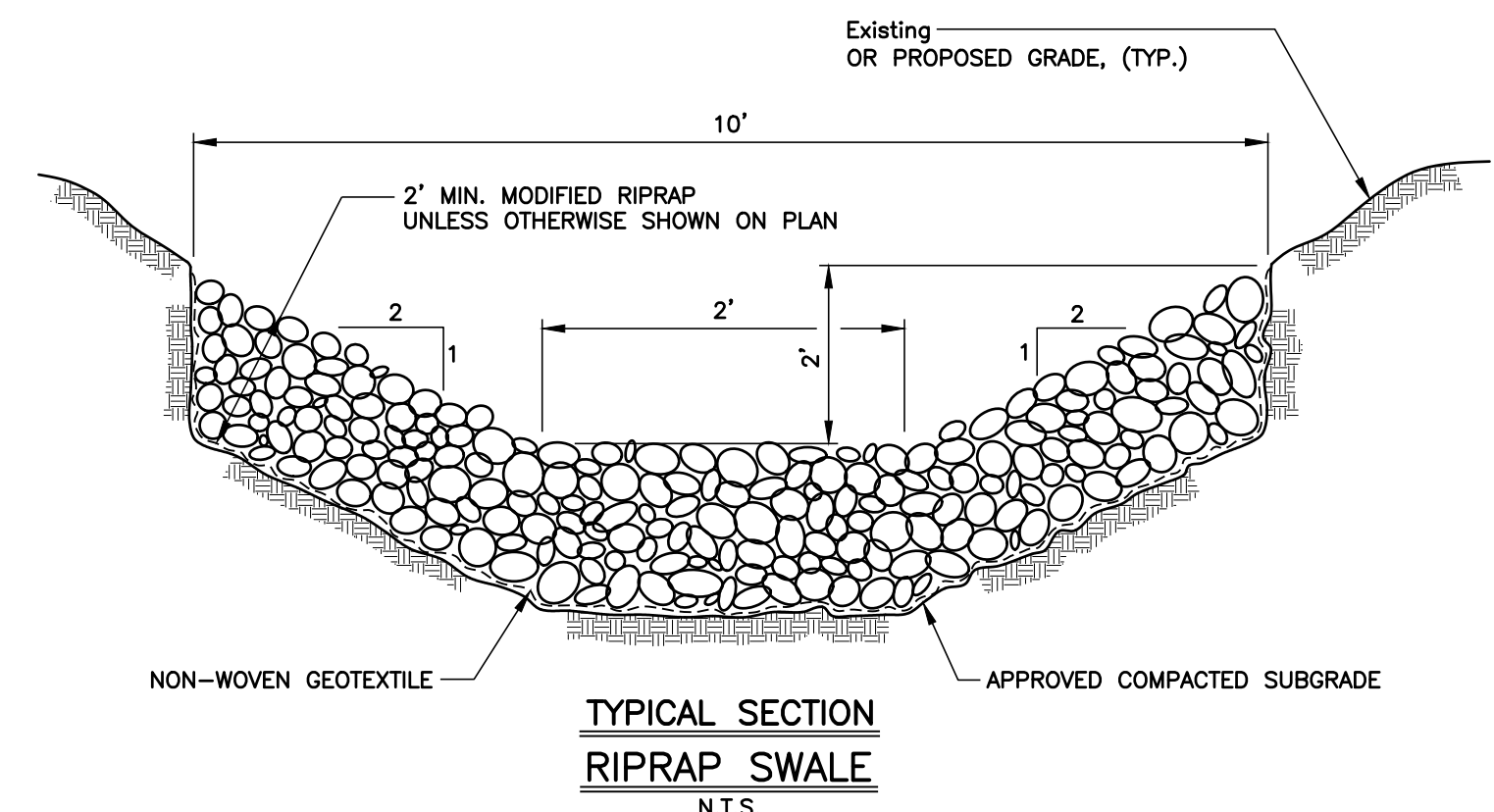
- SOLELY RESPONSIBLE FOR PROTECTION OF PERSONS AND THE PUBLIC IN GENERAL, THE WORK TO BE PERFORMED UNDER THE CONTRACT, PUBLIC AND PRIVATE PROPERTY, AND EASEMENTS AND RIGHTS-OF-WAY DURING THE COURSE OF THE WORK OF THE CONTRACTOR AND HIS SUBCONTRACTORS, AND;
- LIABLE FOR ALL DAMAGES AND CLAIMS RECEIVED OR SUSTAINED BY ANY PERSONS, CORPORATIONS OR PROPERTY IN CONSEQUENCE OF DAMAGE TO EXISTING UTILITIES, ROADWAYS, THEIR APPURTENANCES, OR OTHER FACILITIES CAUSED DIRECTLY OR INDIRECTLY BY THE OPERATIONS OF THE CONTRACTOR, AND;
- SOLELY RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES AND FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

- In general, Lower Case Text Identifies Existing Features/Conditions.
- IN GENERAL, UPPER CASE TEXT IDENTIFIES PROPOSED FEATURES/CONDITIONS UNLESS OTHERWISE SPECIFIED.
- THE REMOVAL OF EXISTING STORM DRAINAGE SHALL BE LIMITED TO THAT WHICH CAN BE REPLACED WITHIN 2 CONSECUTIVE WORKING DAYS.
- RESTORE ALL AREAS DISTURBED BY CONSTRUCTION, GRADE TO DRAIN.
- AERIAL BACKGROUND IMAGE FROM CTECO 2016 ORTHO IMAGERY. ACTUAL CONDITIONS MAY VARY FROM BACKGROUND IMAGE.
- PROPERTY OWNERS FROM TOWN OF BOLTON ASSESSOR'S ONLINE DATABASE.

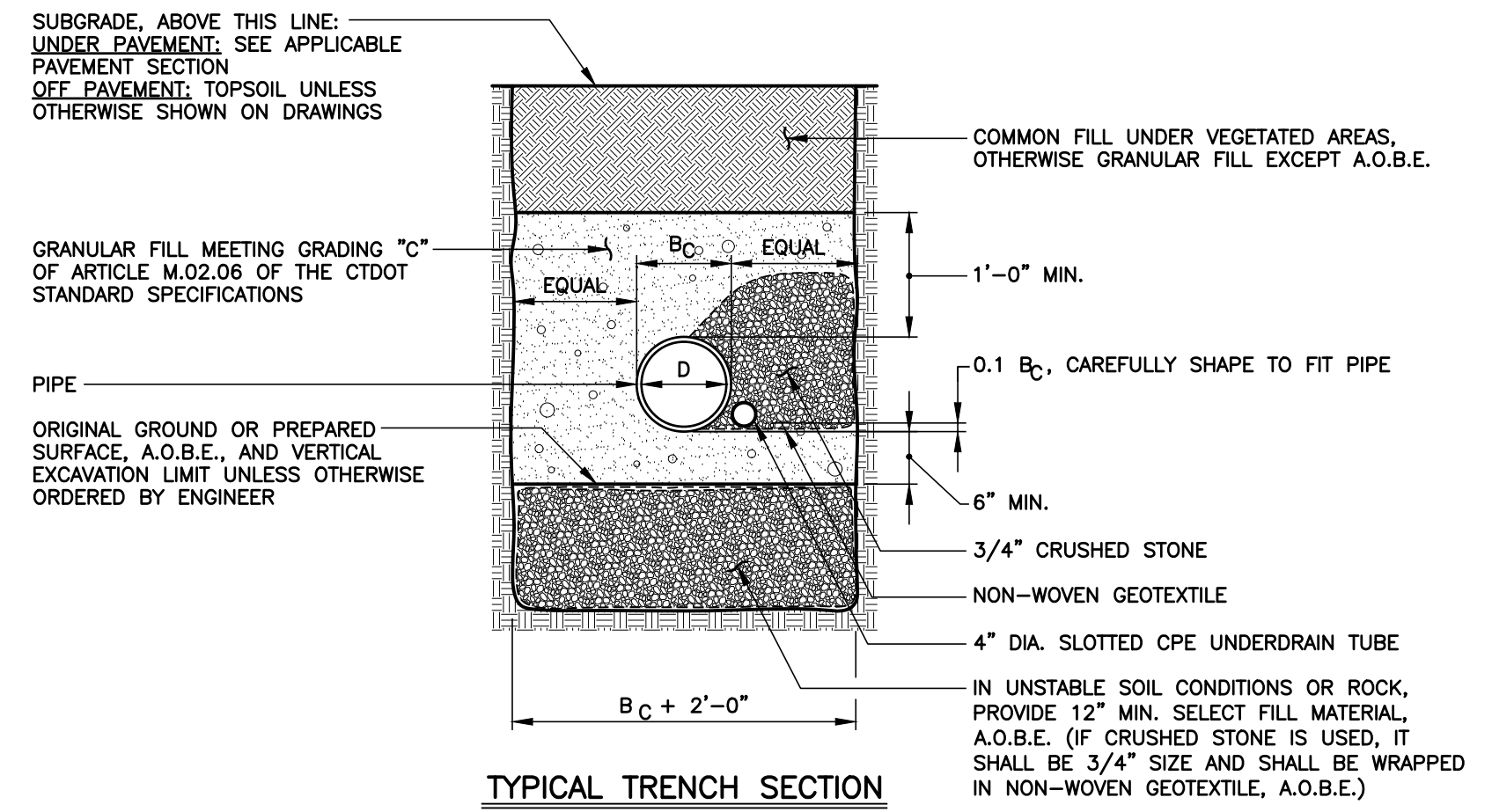


PRECAST CONCRETE TYPE B CATCH BASIN
 SCALE: 3/4"=1'-0"

- NOTES:**
- ADD RISER SECTIONS AS REQUIRED TO MEET INVERT ELEVATIONS. REFER TO SITE GRADING PLAN.
 - PROVIDE MORTAR ON ALL HORIZONTAL SURFACES BETWEEN CATCH BASIN COMPONENTS.

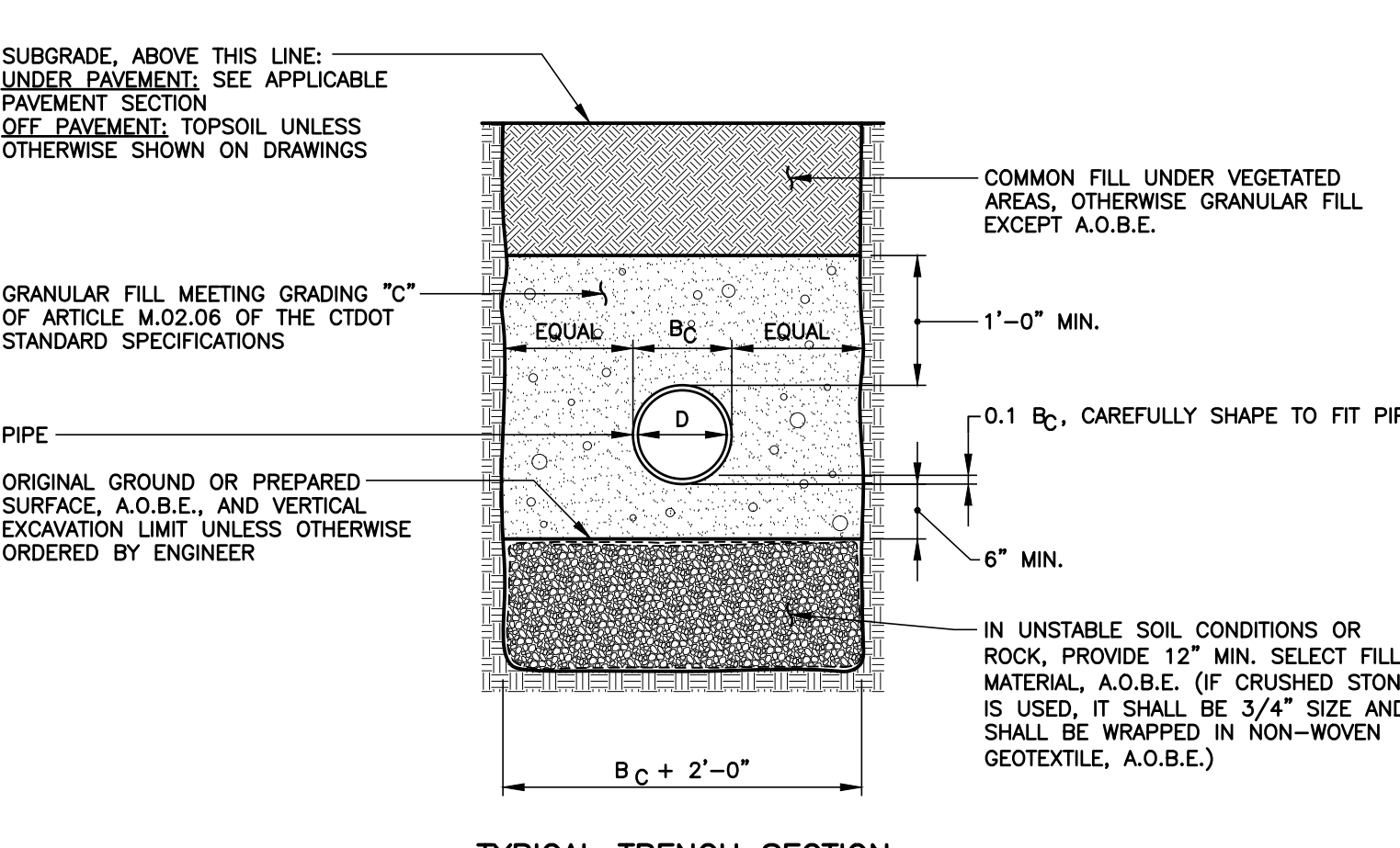


TYPICAL SECTION RIPRAP SWALE
 N.T.S.



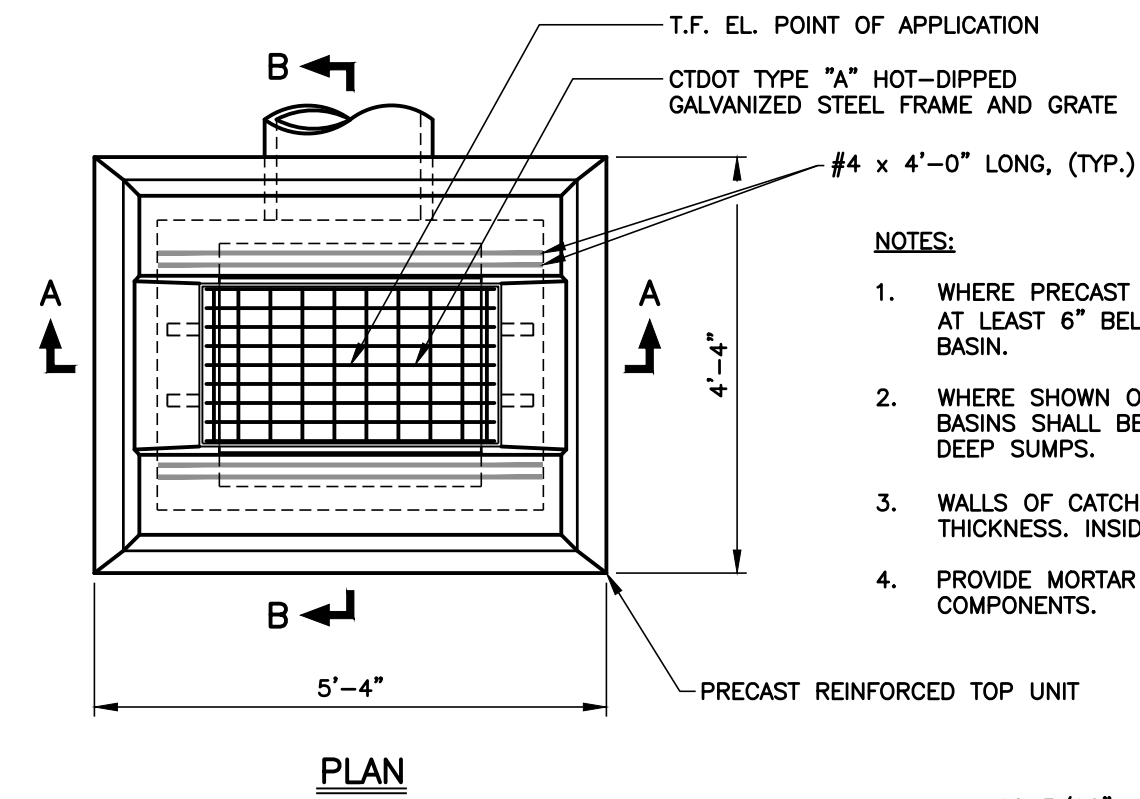
STORM DRAINAGE PIPE WITH UNDERDRAIN
 N.T.S.

- NOTES:**
- CONTRACTOR SHALL PROTECT EXCAVATIONS BY SHORING, BRACING, SHEET PILING, UNDERPINNING OR OTHER METHODS TO PREVENT CAVE-IN OR LOOSE SOIL FROM FALLING INTO THE EXCAVATION AND DAMAGING THE WORK OR ADJACENT STRUCTURES AND UTILITIES.

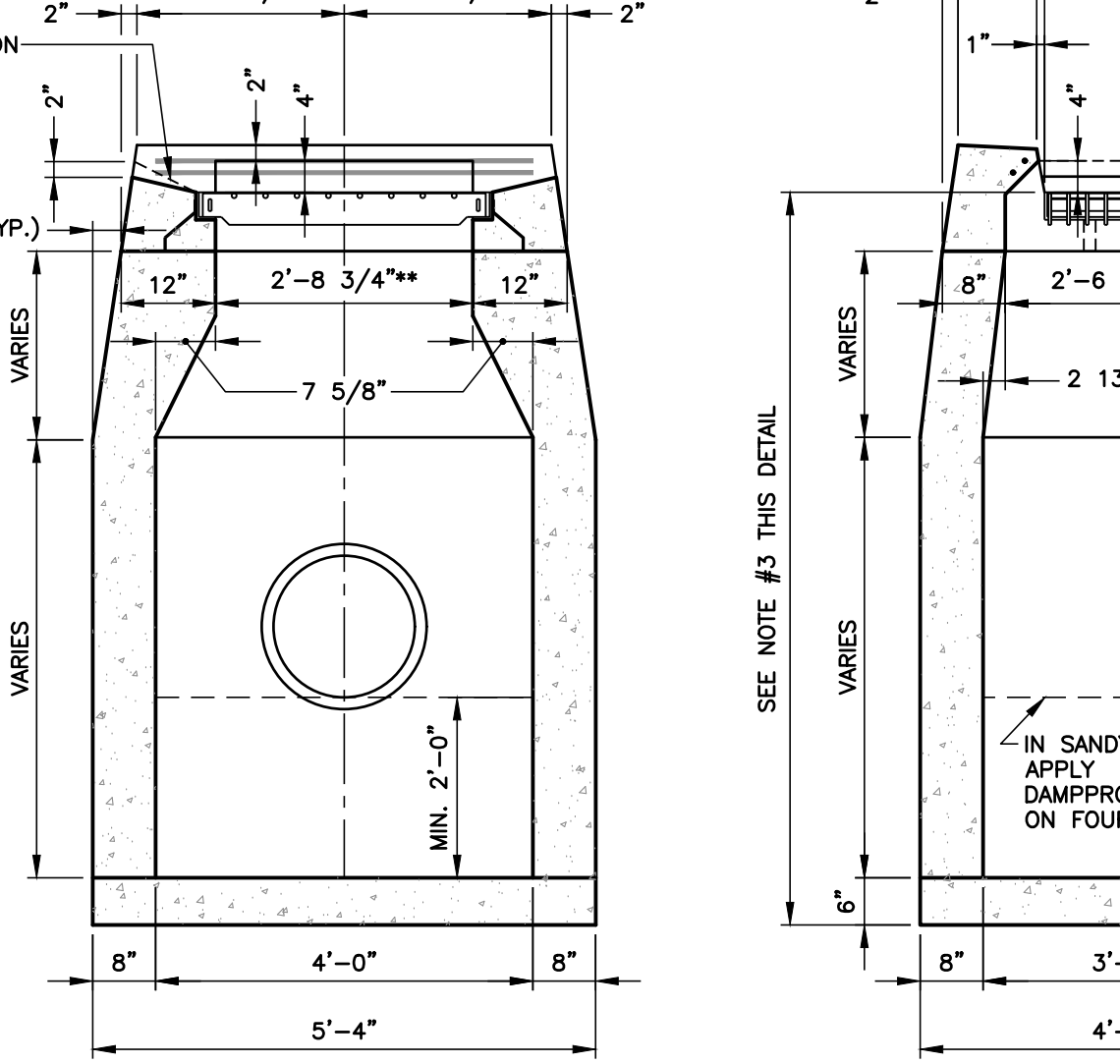


TYPICAL TRENCH SECTION STORM DRAINAGE PIPE
 N.T.S.

- NOTES:**
- CONTRACTOR SHALL PROTECT EXCAVATIONS BY SHORING, BRACING, SHEET PILING, UNDERPINNING OR OTHER METHODS TO PREVENT CAVE-IN OR LOOSE SOIL FROM FALLING INTO THE EXCAVATION AND DAMAGING THE WORK OR ADJACENT STRUCTURES AND UTILITIES.



TYPE "C-G" CATCH BASIN
 N.T.S.



SECTION B-B

SECTION A-A

SECTION B-B

SECTION A-A

SECTION B-B

SECTION A-A

SECTION B-B

SECTION A-A

SECTION B-B

SECTION A-A

SECTION B-B

SECTION A-A

SECTION B-B

SECTION A-A

SECTION B-B

SECTION A-A

SECTION B-B

SECTION A-A

SECTION B-B

SECTION A-A

SECTION B-B

- NOTES:**
- WHERE PRECAST UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLET FROM THE CATCH BASIN.
 - WHERE SHOWN ON THE PLANS OR WHERE DIRECTED BY THE ENGINEER, CATCH BASINS SHALL BE CONSTRUCTED WITH PAVED INVERTS AND NO SUMPS, OR DEEP SUMPS.
 - WALLS OF CATCH BASINS OVER 10' DEEP TO BE INCREASED TO 12" THICKNESS. INSIDE DIMENSIONS TO REMAIN THE SAME.
 - PROVIDE MORTAR ON ALL HORIZONTAL SURFACES BETWEEN CATCH BASIN COMPONENTS.

MINIMUM DEPTH UNLESS SPECIFICALLY ORDERED OR SHOWN OTHERWISE UNDER TRAVELWAY, 1'-7 1/2"; UNDER UNTRAVELED AREAS, 0-3"

PRECAST, BRICK, CLASS "A" CONCRETE OR MASONRY CONCRETE UNITS. WHERE BRICK OR MASONRY CONCRETE UNITS ARE USED, CORRELLING WILL BE PERMITTED. MAXIMUM CORRELL TO BE 3". NO PROJECTION SHALL EXTEND INSIDE THE LIMITS NOTED BY**.

CLASS "A" CONCRETE OR PRECAST UNIT, (TYP.)

IN SANDY SOILS, APPLY DAMPROOFING ON FOUR WALLS

DRAINAGE OPENINGS IN FOUR WALLS AT OR IMMEDIATELY ABOVE THIS ELEVATION. PERVIOUS BACKFILL ABOVE THIS ELEVATION TO SUBGRADE

SEE NOTE #3 THIS DETAIL

2:1 SLOPE ON DOWN HILL END

FINISHED GRADE IN PAVED AREAS

FINISHED GRADE IN UNPAVED AREAS

HEAVY DUTY MANHOLE FRAME AND COVER (NEENAH MODEL R-1642 OR ACCEPTED SUBSTITUTION) WITH THE WORD "STORM" CAST INTO COVER.

T.F. APPLIES HERE

MORTAR FROSTPROOFING, (TYP.)

PROPOSED GRADE

IF REQUIRED, ADJUST TO GRADE WITH 12" MAX. HT. x 8" WIDE 4000 PSI, PRECAST CONCRETE GRADE RINGS (ASTM C 478), BRICK OR MASONRY CONCRETE UNITS

APPROVED RUBBER O-RING GASKET OR MORTAR JOINTS, (TYP.)

TOP STEP TO BE 20" MAX. BELOW TOP OF FRAME (PROVIDE 12" BETWEEN STEPS AND LOCATE BOTTOM STEP 18" MAX. FROM SOLID FOOTING)

KNOCKOUT FOR PIPES MIN. 4" FROM TOP AND 12" FROM BOTTOM OF BASE, (TYP.)

PRECAST REINFORCED CONCRETE BASE (ASTM C 478)

6" MIN. (INCREASE TO 10" FOR 5" AND 6" INSIDE DIAMETER BASES)

8" MIN. (INCREASE TO 10" FOR 5" AND 6" INSIDE DIAMETER BASES)

MASONRY SHALL BE PARGED WITH MORTAR ENTIRE INSIDE AND OUTSIDE CIRCUMFERENCE, (TYP.)

FINISHED PAVEMENT

ECCENTRIC MANHOLE ENTRANCE SLAB (ASTM C 478)

FILL ALL LIFTING HOLES WITH MORTAR, (TYP.)

MIN. REINFORCEMENT SHALL BE IN CONFORMANCE WITH ASTM C 478

POLYPROPYLENE PLASTIC MANHOLE STEP, SEE DETAIL, THIS SHEET, (TYP.)

4 MIN.

24" I.D.

6" MIN.

6" (TYP.)

6" MIN. 3/4" CRUSHED STONE

5" MIN. UNLESS SPECIFIED ON PLANS

SHALLOW PRECAST STORM SEWER MANHOLE
 N.T.S.

TOWN OF BOLTON, CONNECTICUT
LORI ROAD DRAINAGE IMPROVEMENTS

PROJECT NOTES AND DETAILS

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| DATE: SEPTEMBER 2024 | SHEET No.: |
| SCALE: AS SHOWN | AS SHOWN |
| PROJECT No.: 09630048 | 09630048-DT |
| CADD FILE: 09630048-DT | CEB |
| DESIGNED: JMD | 3 OF 4 |
| DRAWN: CEB | |
| CHECKED: WMT | |

