

**NOTE:**  
 1. SIGHT DISTANCES CALCULATED BY KWH ENTERPRISE LLC. 480 FEET FOR VEHICLES TRAVELING NORTHBOUND & 520 FEET FOR VEHICLES TRAVELING SOUTHBOUND.

No.	Date	Revision
1	10/28/2022	ISSUED FOR PERMIT

**SITE DEVELOPMENT PLAN  
 DEPICTING  
 131 & 139 TURN OF RIVER ROAD  
 AND 29 INTERVALE ROAD  
 STAMFORD, CT  
 PREPARED FOR  
 THI, LLC & HB CAPITAL LLC.**

**REDNISS & MEAD**  
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 PERMITTING

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SCALE: 0 20 40  
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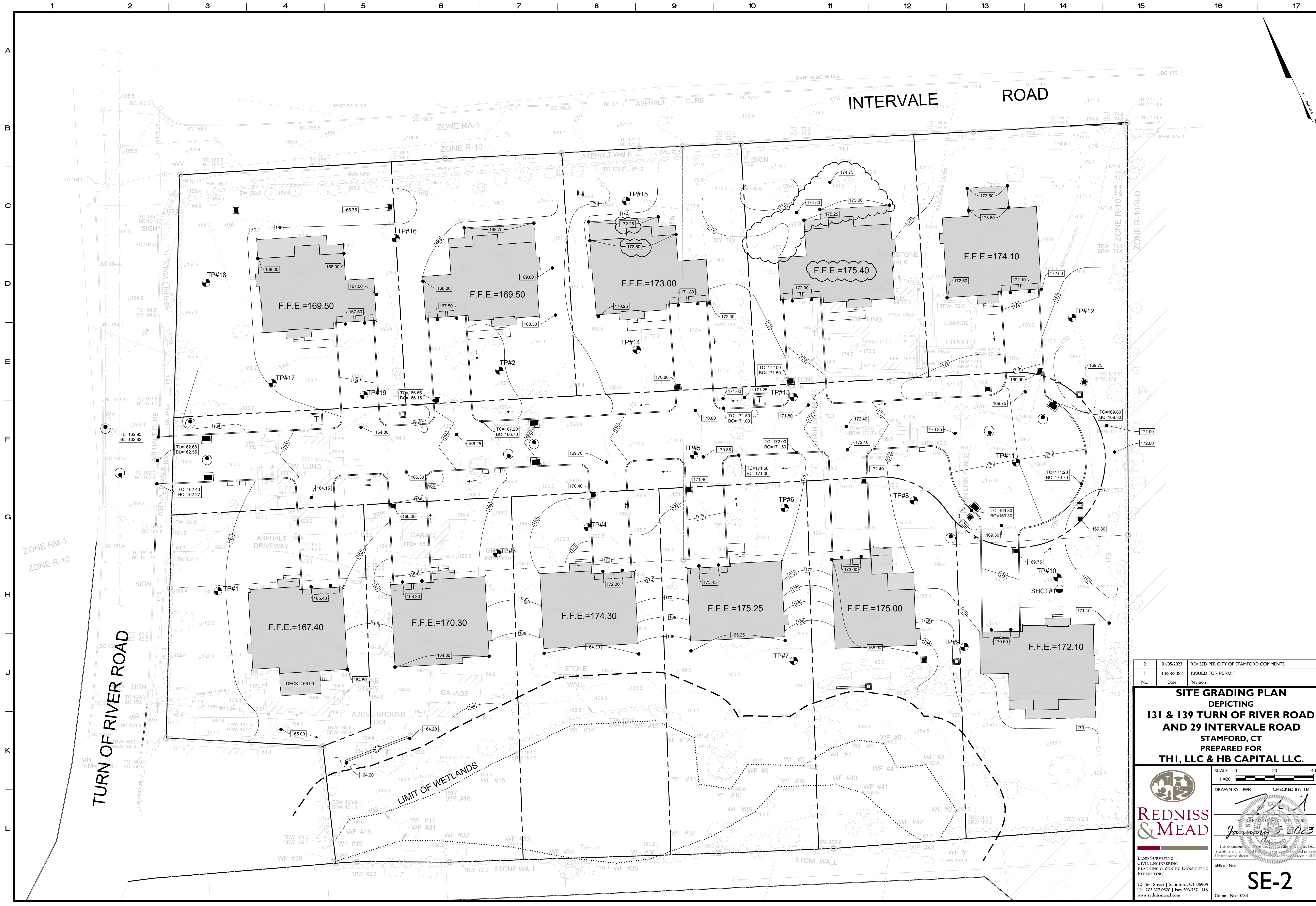
DRAWN BY: JWB CHECKED BY: TM

DATE: **October 27, 2022**

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SHEET No: **SE-1**

Comm. No.: 9734



2	01/05/2023	REVISED PER CITY OF STAMFORD COMMENTS
1	10/28/2022	ISSUED FOR PERMIT
No.	Date	Revision

**SITE GRADING PLAN**  
 DEPICTING  
**131 & 139 TURN OF RIVER ROAD**  
**AND 29 INTERVALE ROAD**  
 STAMFORD, CT  
 PREPARED FOR  
**THI, LLC & HB CAPITAL LLC.**

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 1"=20'

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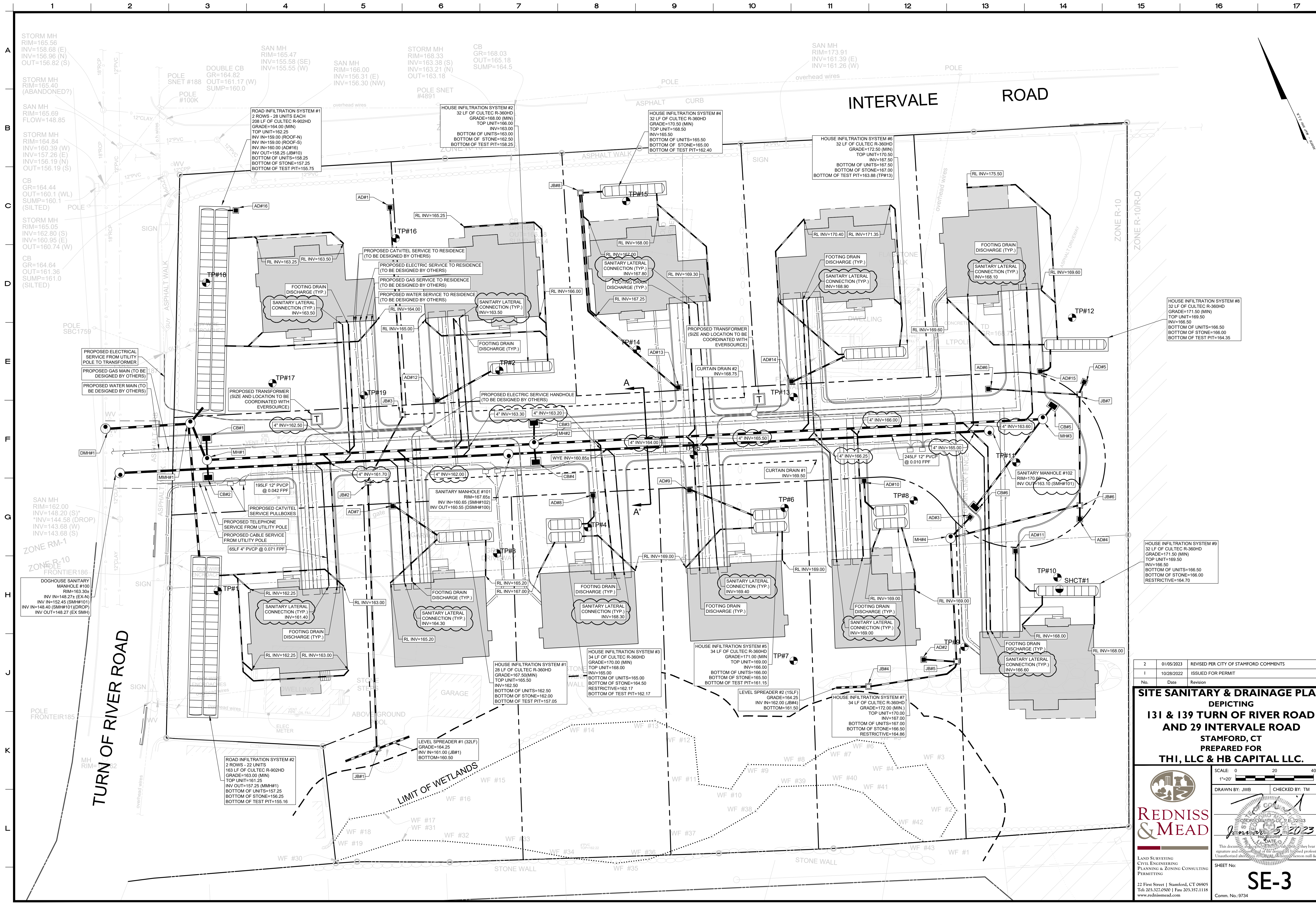
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SHEET No: **SE-2**  
 Comm. No.: 9374

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No.	Date	Revision
2	01/05/2023	REVISED PER CITY OF STAMFORD COMMENTS
1	10/28/2022	ISSUED FOR PERMIT

**SITE SANITARY & DRAINAGE PLAN**  
 DEPICTING  
**131 & 139 TURN OF RIVER ROAD**  
**AND 29 INTERVALE ROAD**  
 STAMFORD, CT  
 PREPARED FOR  
**THI, LLC & HB CAPITAL LLC.**

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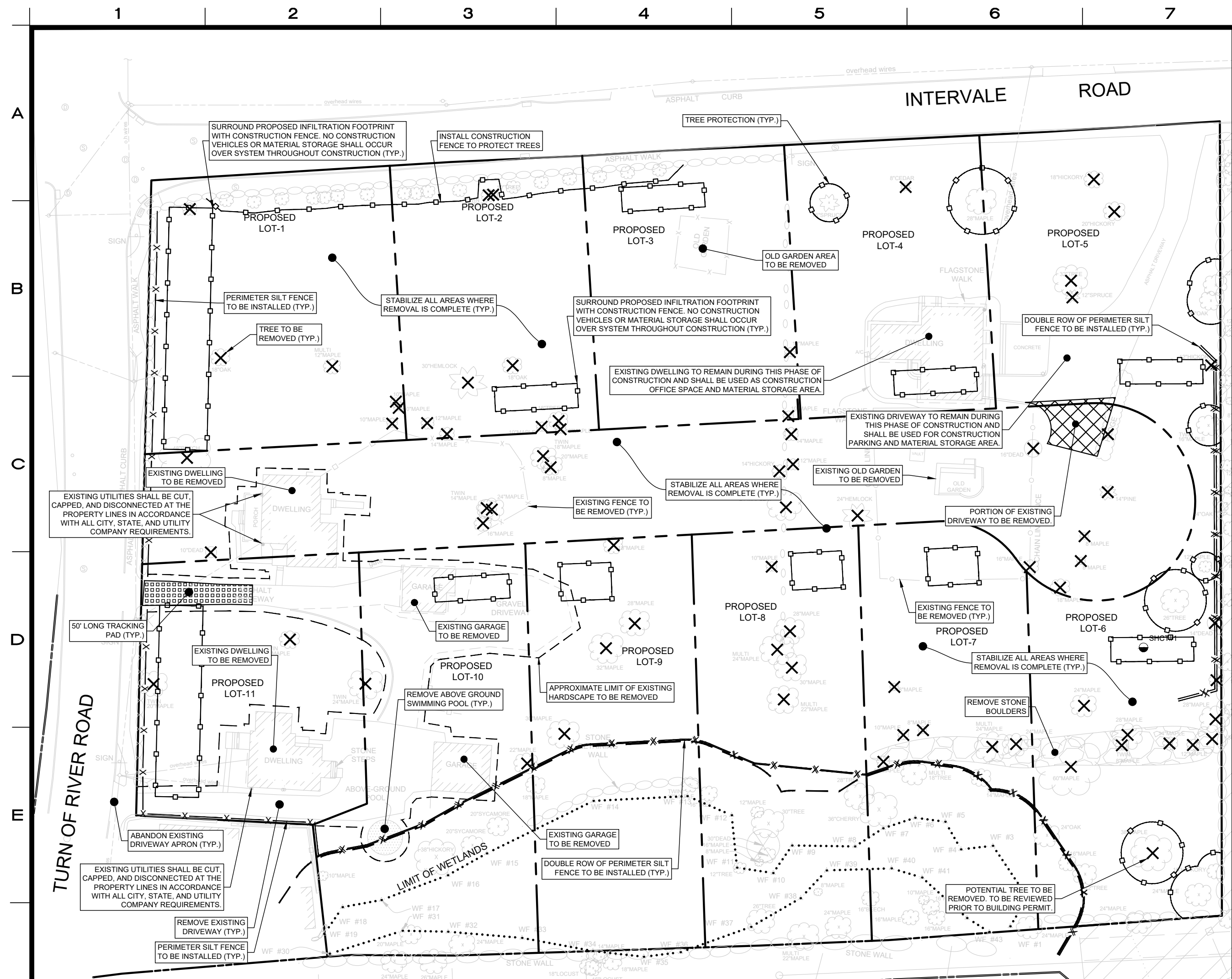
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DATE: **January 5, 2023**

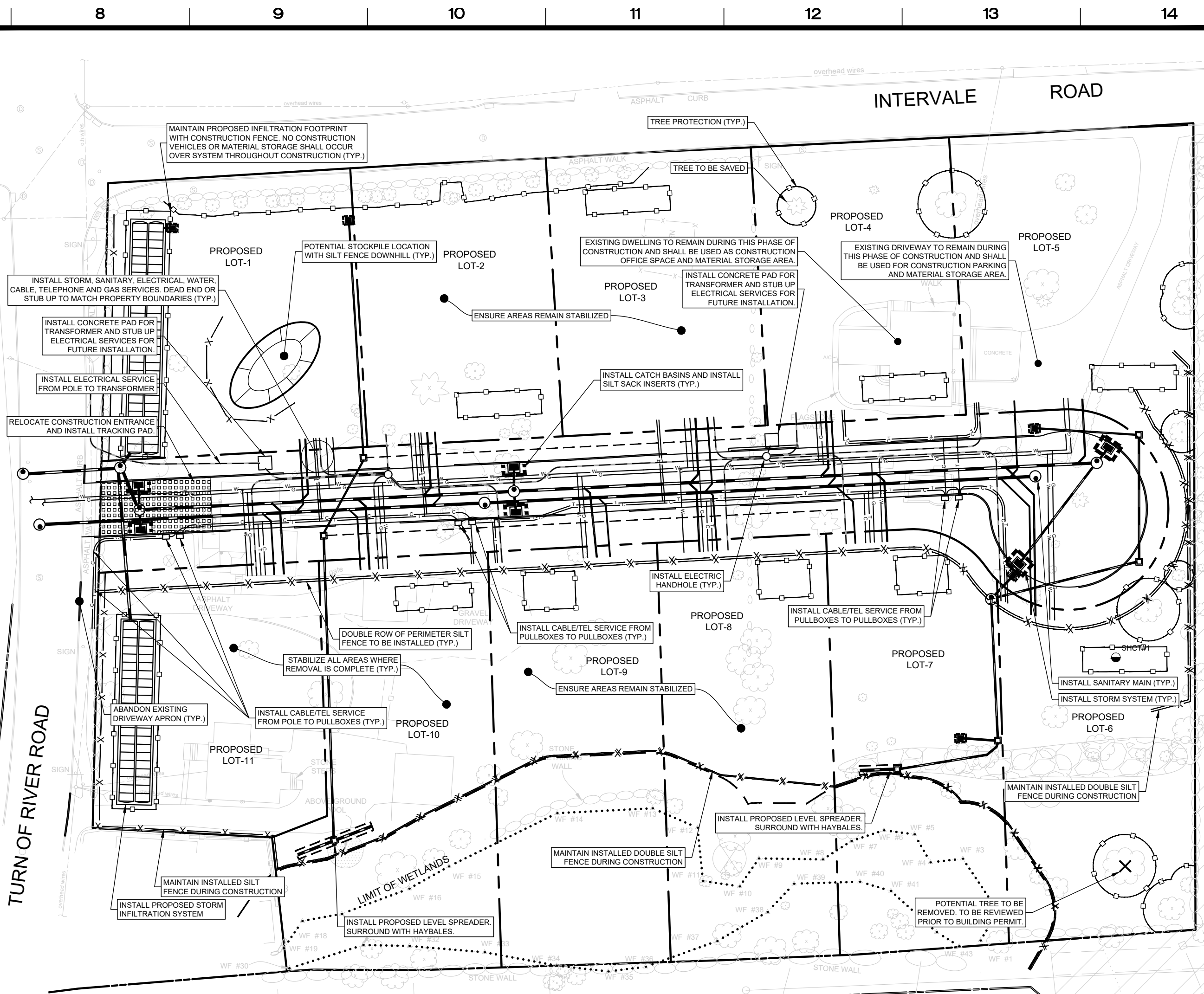
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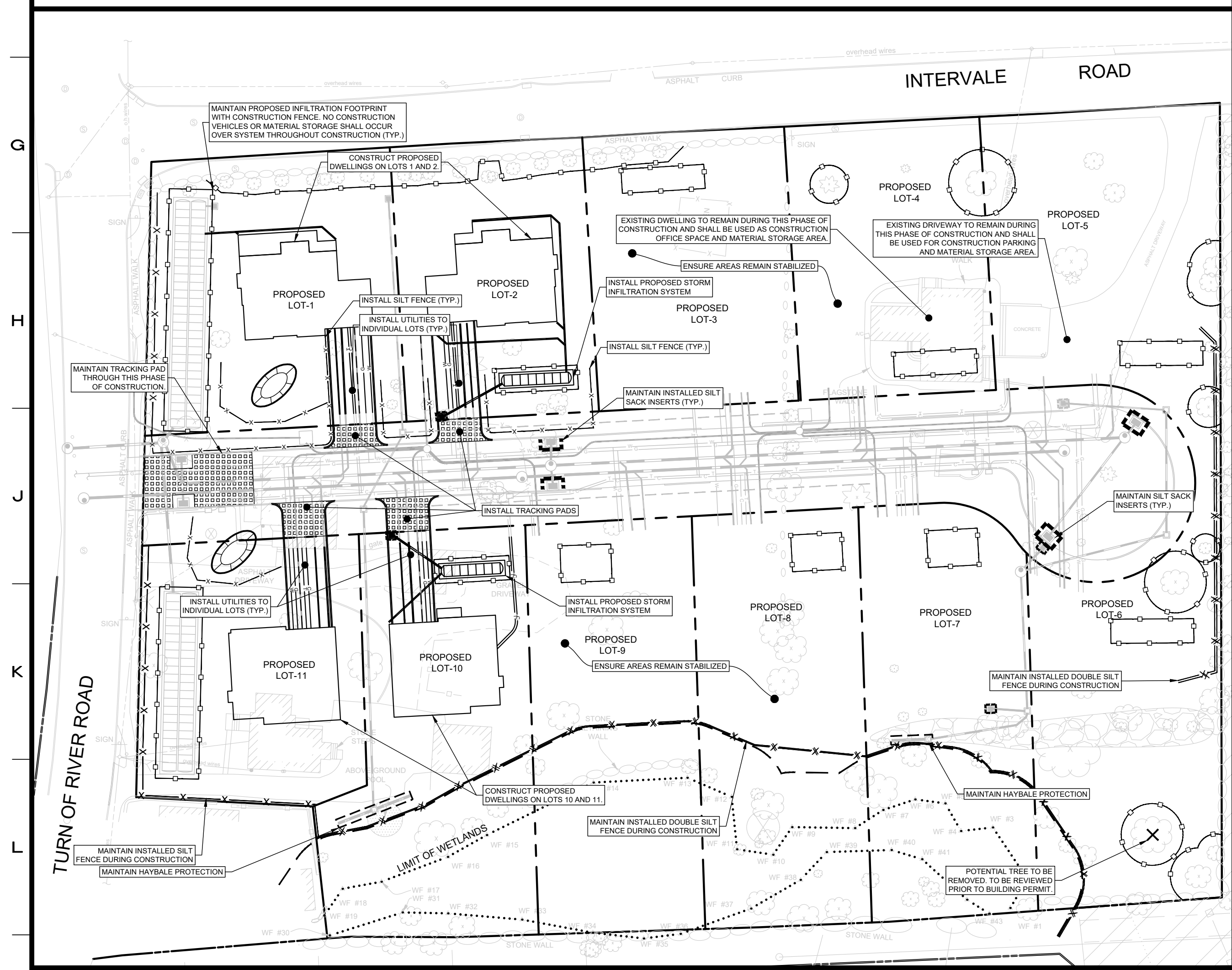
Comm. No.: 9734



**PHASE 1: SITE PREPARATION / DEMOLITION**

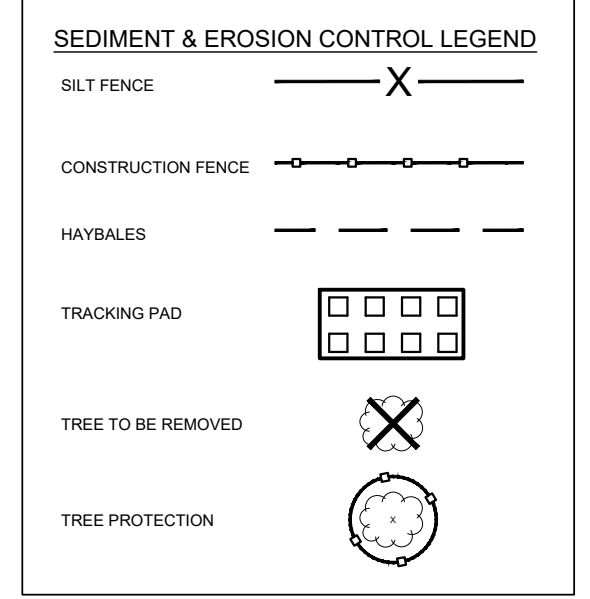


**PHASE 2: CONSTRUCTION OF COMMON ROADWAY AND UTILITIES**



**PHASE 3: CONSTRUCTION OF LOT #1, 2, 10, & 11**

- CONSTRUCTION PHASING (PHASE I - 3):**
- The following description of construction phasing is intended to demonstrate a feasible sequence of construction. A construction sequencing and logistics plan shall be prepared by the contractor and submitted to city staff prior to obtaining Building Permits.
- PHASE 1 - SITE PREPARATION/DEMOLITION:**
- INSTALL TRACKING PAD FOR CONSTRUCTION ACCESS
  - INSTALL PERMETER SILT FENCE AS SHOWN ON THE PLANS
  - INSTALL TREE PROTECTION, COORDINATE WITH WILLIAM KENNY ASSOCIATES FOR LOCATIONS OF TREES TO BE PROTECTED
  - INSTALL CONSTRUCTION FENCE AROUND INFILTRATION SYSTEMS
  - TREE BRUSH REMOVAL
  - REMOVE EXISTING STRUCTURES, PAVEMENT, HARDSCAPES IN ACCORDANCE WITH ALL NECESSARY REGULATIONS
  - STABILIZE ALL DISTURBED AREAS WITH MULCH, TEMPORARY GRASS SEED AS NECESSARY PRIOR TO COMMENCING PHASE 2
- PHASE 2 - CONSTRUCTION OF COMMON ROADWAY AND UTILITIES:**
- INSTALL SEDIMENT & EROSION CONTROLS ASSOCIATED WITH THIS PHASE OF CONSTRUCTION
  - RELOCATE TRACKING PAD TO NEW ROADWAY LOCATION, ABANDON EXISTING DRIVEWAY APRONS
  - MAINTAIN AREAS OF INFILTRATION PROTECTION AND ALL SEDIMENT & EROSION CONTROLS
  - INSTALL UTILITIES (STORM, SANITARY, ELECTRIC, TELEPHONE, CABLE, GAS, AND WATER FROM TURN OF RIVER ROAD RIGHT-OF-WAY TO PROPOSED PROPERTY BOUNDARIES)
  - INSTALL ROADWAY INFILTRATION SYSTEMS AND DRAINAGE SYSTEMS CROSSING NEW ROADWAY TO LEVEL SPREADERS
  - INSTALL NEW ROADWAY BASE & ASPHALT BINDER COURSE, ALL DRAINAGE STRUCTURES ALONG NEW ROADWAY SHALL BE ABLE TO RECEIVE RUNOFF WITHOUT PONDING OCCURRING AROUND STRUCTURE
  - INSTALL SEDIMENT AND EROSION CONTROLS ASSOCIATED WITH DRAINAGE SYSTEM
  - STABILIZE ALL DISTURBED AREAS WITH MULCH, TEMPORARY GRASS SEED AS NECESSARY PRIOR TO COMMENCING PHASE 3.
- PHASE 3 - CONSTRUCTION OF LOTS #1, 2, 10, 11:**
- INSTALL TRACKING PADS FOR CONSTRUCTION ACCESS
  - INSTALL SILT FENCE AS SHOWN ON THE PLANS
  - MAINTAIN ALL SEDIMENT AND EROSION CONTROLS PREVIOUSLY INSTALLED IN AN EFFECTIVE CONDITION DURING THIS PHASE. REPLACE NON-FUNCTIONAL CONTROLS AS NECESSARY
  - EXCAVATE AND INSTALL BUILDING FOUNDATION
  - INSTALL CONSTRUCTION DEWATERING AND TEMPORARY FILTERING SYSTEM AS NECESSARY, COORDINATE DEWATERING WITH SITE GEOTECHNICAL ENGINEER AND/OR CIVIL ENGINEER
  - INSTALL UTILITIES
  - BACKFILL FOUNDATION, CONSTRUCT BUILDING AND ROUGH GRADE DRIVEWAY AROUND DWELLING
  - INSTALL STORMWATER INFILTRATION SYSTEM
  - FINAL GRADING
  - INSTALL LANDSCAPING, SEED, & MULCH DISTURBED AREAS
  - PREPARE DRIVEWAY FOR PAVING AND PAVE
  - CLEAN AFFECTED PORTION OF ON AND OFF SITE ROADS AND DRIVEWAYS
  - REMOVE ACCUMULATED SILT & DEBRIS FROM AREA DRAIN/CATCH BASIN SUMPS & PIPES
  - REMOVE ACCUMULATED SEDIMENT FROM AFFECTED AREAS AND DISPOSE OF LEGALLY
  - REMOVE TEMPORARY SEDIMENT & EROSION CONTROLS ASSOCIATED WITH THE INDIVIDUAL LOTS ONLY ONCE SITE IS STABILIZED. MAINTAIN ALL OTHER SEDIMENT AND EROSION CONTROLS ASSOCIATED WITH AREAS TO BE DEVELOPED
  - MAKE ANY NECESSARY REPAIRS TO PERMANENT SEDIMENT & EROSION CONTROLS SUCH AS PLANTINGS
  - WHERE AREAS OF LOTS 1, 2, 10, 11 ARE STABILIZED, REMOVE SEDIMENT & EROSION CONTROLS ON THESE LOTS. ALL OTHER SEDIMENT & EROSION CONTROLS TO REMAIN.



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 DEPICTING  
**131 & 139 TURN OF RIVER ROAD AND 29 INTERVALE ROAD**  
 STAMFORD, CT  
 PREPARED FOR  
**THI, LLC & HB CAPITAL LLC.**

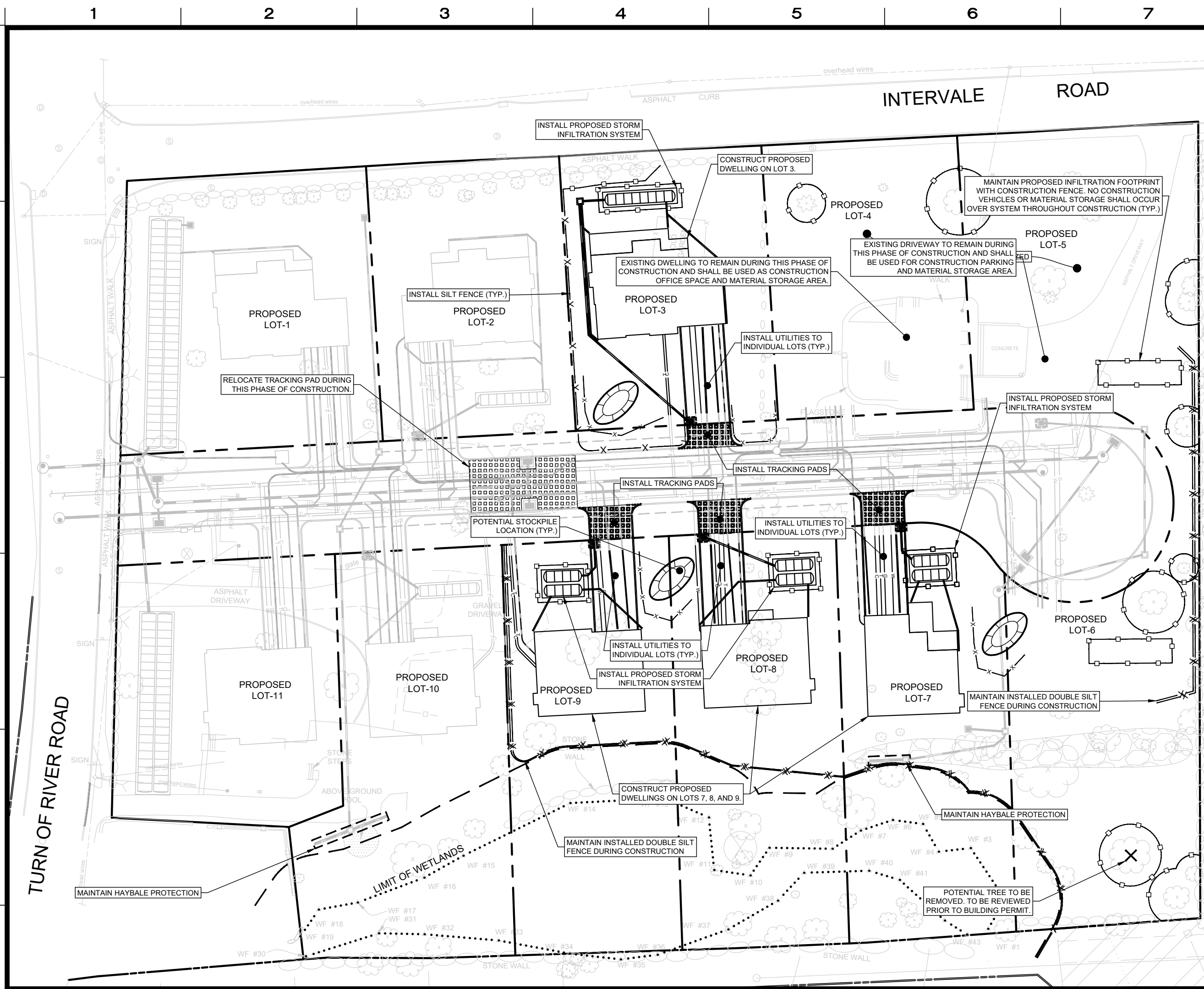
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DRAWN BY: JWB CHECKED BY: TM

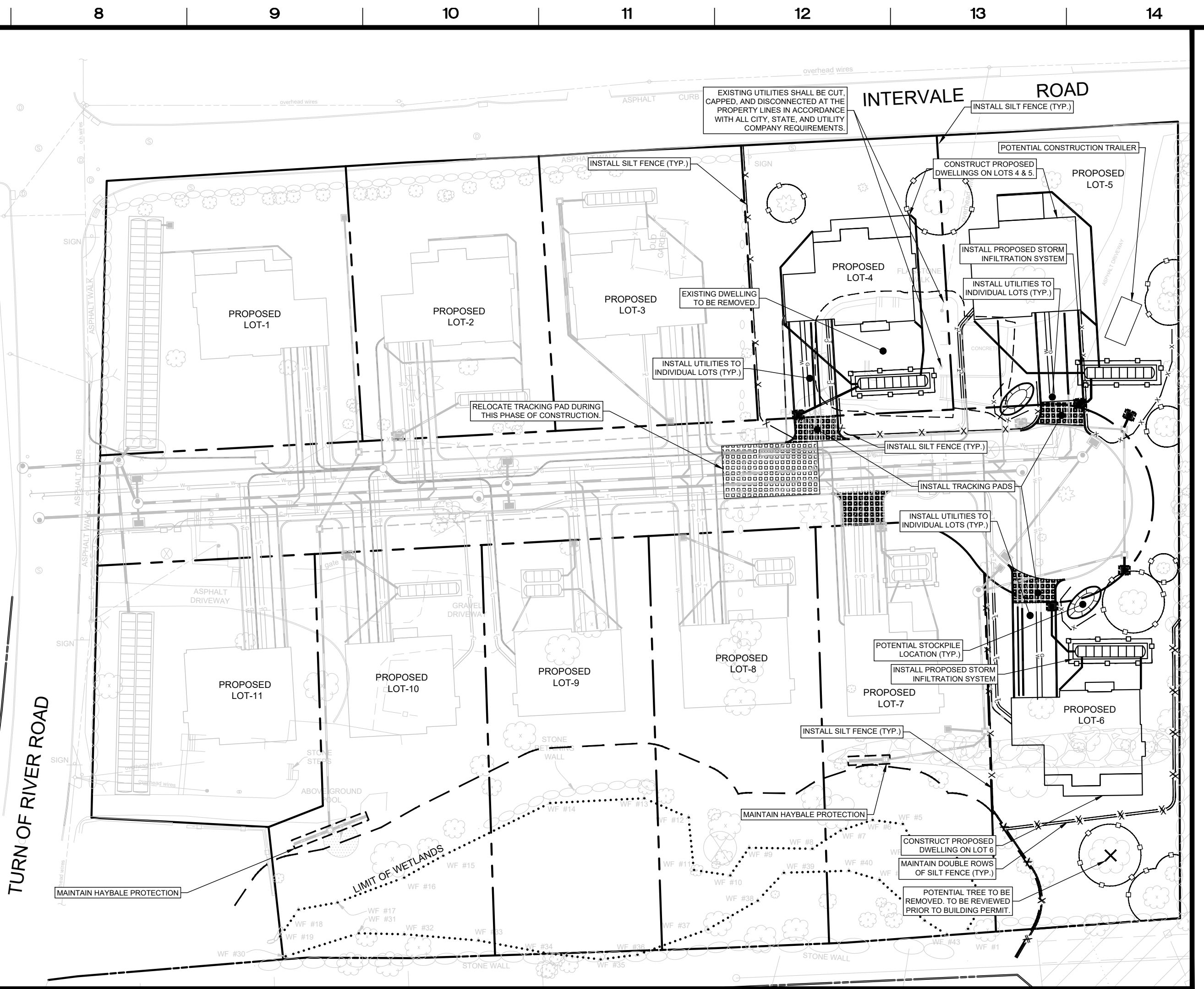
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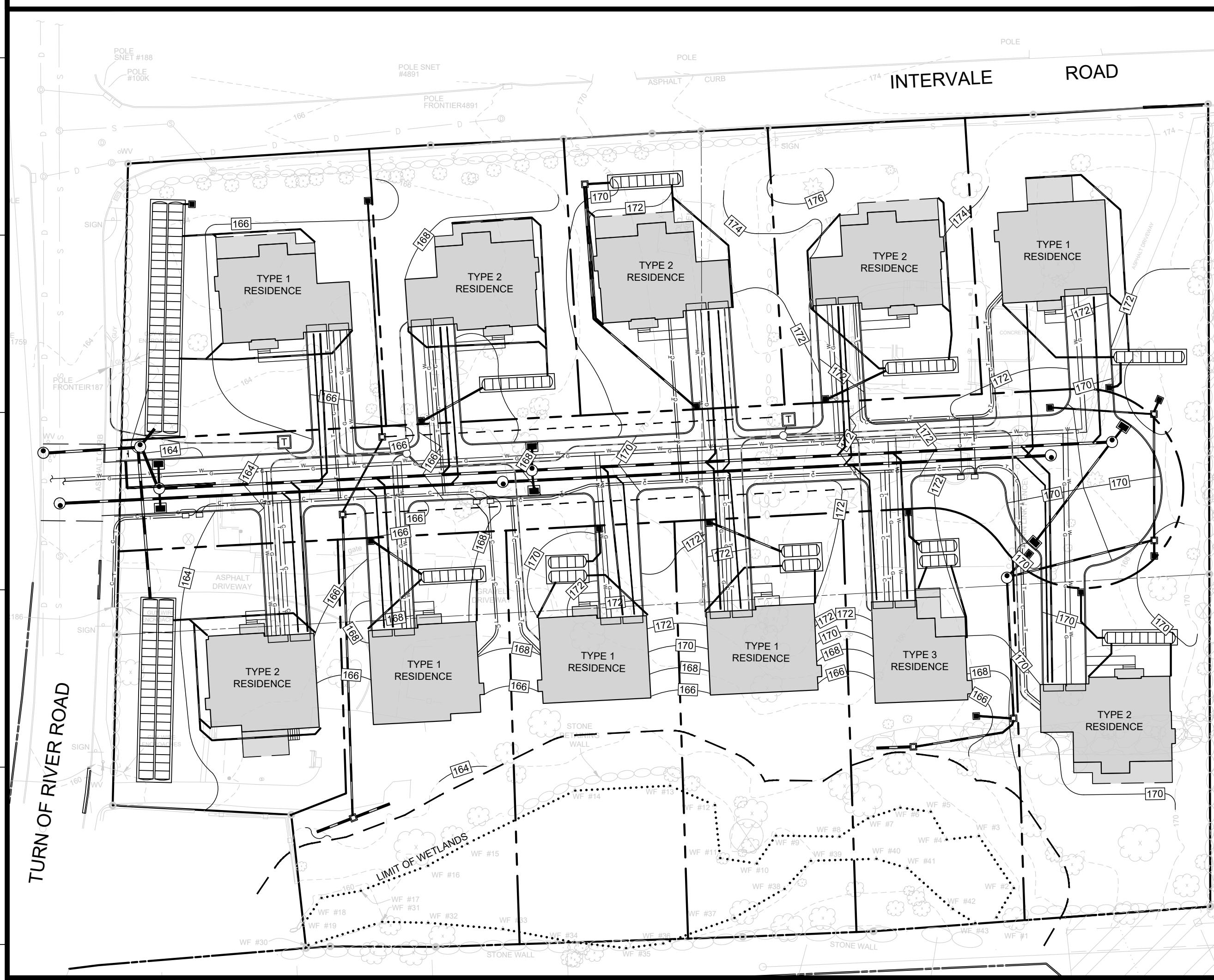
DATE: *Jan 5 2023*  
 STATE: CT  
 SHEET No: **SE-4A**  
 Comm. No.: 9734



**PHASE 4: CONSTRUCTION OF LOT #3, 7, 8, & 9**



**PHASE 5: CONSTRUCTION OF LOT #4, 5, & 6**



**PHASE 6: SITE GRADING, LANDSCAPING, SITework CLEANUP**

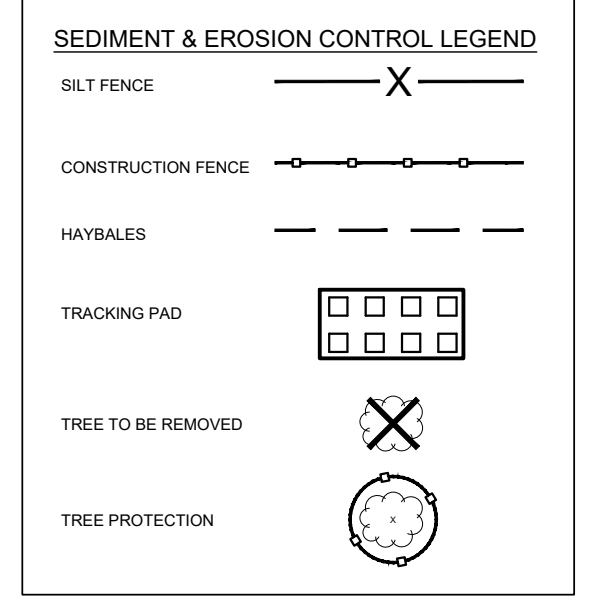
**CONSTRUCTION PHASING (PHASE 4 - 6):**

The following description of construction phasing is intended to demonstrate a feasible sequence of construction. A construction sequencing and logistics plan shall be prepared by the contractor and submitted to city staff prior to obtaining Building Permit.

- PHASE 4 - CONSTRUCTION OF LOTS #3, 7, 8, 9:**
- INSTALL TRACKING PADS FOR CONSTRUCTION ACCESS
  - INSTALL SILT FENCE AS SHOWN ON THE PLANS.
  - MAINTAIN ALL SEDIMENT AND EROSION CONTROLS PREVIOUSLY INSTALLED IN AN EFFECTIVE CONDITION DURING THIS PHASE. REPLACE NON-FUNCTIONAL CONTROLS AS NECESSARY.
  - EXCAVATE AND INSTALL BUILDING FOUNDATION.
  - INSTALL CONSTRUCTION DEWATERING AND TEMPORARY FILTERING SYSTEM AS NECESSARY. COORDINATE DEWATERING WITH SITE GEOTECHNICAL ENGINEER AND/OR CIVIL ENGINEER.
  - INSTALL UTILITIES
  - BACKFILL FOUNDATION, CONSTRUCT BUILDING AND ROUGH GRADE DRIVEWAY AROUND DWELLING.
  - INSTALL STORMWATER INFILTRATION SYSTEM.
  - FINAL GRADING
  - INSTALL LANDSCAPING, SEED, & MULCH DISTURBED AREAS.
  - PREPARE DRIVEWAY FOR PAVING AND PAVE.
  - CLEAN AFFECTED PORTION OF ON AND OFF SITE ROADS AND DRIVEWAYS.
  - REMOVE ACCUMULATED SILT & DEBRIS FROM AREA DRAIN/CATCH BASIN SUMPS & PIPES.
  - REMOVE ACCUMULATED SEDIMENT FROM AFFECTED AREAS AND DISPOSE OF LEGALLY.
  - REMOVE TEMPORARY SEDIMENT & EROSION CONTROLS ASSOCIATED WITH THE INDIVIDUAL LOTS ONLY ONCE SITE IS STABILIZED. MAINTAIN ALL OTHER SEDIMENT AND EROSION CONTROLS ASSOCIATED WITH AREAS TO BE DEVELOPED.
  - MAKE ANY NECESSARY REPAIRS TO PERMANENT SEDIMENT & EROSION CONTROLS SUCH AS PLANTINGS.
  - WHERE AREAS OF LOTS 3, 7, 8, 9 ARE STABILIZED, REMOVE SEDIMENT & EROSION CONTROLS ON THESE LOTS. ALL OTHER SEDIMENT & EROSION CONTROLS TO REMAIN.

- PHASE 5 - CONSTRUCTION OF LOTS #4, 5, 6:**
- INSTALL TRACKING PADS FOR CONSTRUCTION ACCESS
  - INSTALL SILT FENCE AS SHOWN ON THE PLANS.
  - MAINTAIN ALL SEDIMENT AND EROSION CONTROLS PREVIOUSLY INSTALLED IN AN EFFECTIVE CONDITION DURING THIS PHASE. REPLACE NON-FUNCTIONAL CONTROLS AS NECESSARY.
  - REMOVE EXISTING DWELLING AND PAVEMENT WHEN APPROPRIATE.
  - EXCAVATE AND INSTALL BUILDING FOUNDATION.
  - INSTALL CONSTRUCTION DEWATERING AND TEMPORARY FILTERING SYSTEM AS NECESSARY. COORDINATE DEWATERING WITH SITE GEOTECHNICAL ENGINEER AND/OR CIVIL ENGINEER.
  - INSTALL UTILITIES
  - BACKFILL FOUNDATION, CONSTRUCT BUILDING AND ROUGH GRADE DRIVEWAY AROUND DWELLING.
  - INSTALL STORMWATER INFILTRATION SYSTEM.
  - FINAL GRADING
  - INSTALL LANDSCAPING, SEED, & MULCH DISTURBED AREAS.
  - PREPARE DRIVEWAY FOR PAVING AND PAVE.
  - CLEAN AFFECTED PORTION OF ON AND OFF SITE ROADS AND DRIVEWAYS.
  - REMOVE ACCUMULATED SILT & DEBRIS FROM AREA DRAIN/CATCH BASIN SUMPS & PIPES.
  - REMOVE ACCUMULATED SEDIMENT FROM AFFECTED AREAS AND DISPOSE OF LEGALLY.
  - REMOVE TEMPORARY SEDIMENT & EROSION CONTROLS ASSOCIATED WITH THE INDIVIDUAL LOTS ONLY ONCE SITE IS STABILIZED. MAINTAIN ALL OTHER SEDIMENT AND EROSION CONTROLS ASSOCIATED WITH AREAS TO BE DEVELOPED.
  - MAKE ANY NECESSARY REPAIRS TO PERMANENT SEDIMENT & EROSION CONTROLS SUCH AS PLANTINGS.
  - WHERE AREAS OF LOTS 4, 5, 6 ARE STABILIZED, REMOVE SEDIMENT & EROSION CONTROLS ON THESE LOTS. ALL OTHER SEDIMENT & EROSION CONTROLS TO REMAIN.

- PHASE 6 - SITE GRADING, LANDSCAPING, AND SITework CLEANUP:**
- INSTALL ANY NECESSARY SEDIMENT AND EROSION CONTROLS.
  - INSTALL CURBS & SIDEWALKS ALONG TURN OF RIVER ROAD FRONTAGE
  - MAKE REPAIRS TO BINDER COURSE INSTALLED IN PHASE 2 & PREPARE FOR FINAL PAVING.
  - ENSURE THAT TURN OF RIVER ROADWAY IS REPAIRED TO SATISFY THE ENGINEERING BUREAU.
  - INSTALL LANDSCAPING AND FINAL SITE STABILIZATION.
  - FINAL GRADING.
  - INSTALL ROADWAY CURBS & FINAL PAVEMENT.
  - CLEAN AFFECTED PORTIONS OF ON & OFF SITE ROADS AND DRIVEWAYS.
  - REMOVE ACCUMULATED SILT & DEBRIS FROM AREA DRAIN/CATCH BASIN SUMPS & PIPES.
  - REMOVE ACCUMULATED SEDIMENT FROM AFFECTED AREAS AND DISPOSE OF LEGALLY.
  - REMOVE TEMPORARY SEDIMENT & EROSION CONTROLS ONLY ONCE SITE IS STABILIZED. MAKE ANY NECESSARY REPAIRS TO PERMANENT SEDIMENT & EROSION CONTROLS SUCH AS PLANTINGS.



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 DEPICTING  
**131 & 139 TURN OF RIVER ROAD AND 29**  
**INTERVALE ROAD**  
 STAMFORD, CT  
 PREPARED FOR  
**THI, LLC & HB CAPITAL LLC.**

SCALE: 0 20 40  
 1"=20'

DRAWN BY: JWB CHECKED BY: TM

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TEC 0030-01-01 Rev 2/2013  
 January 2023  
 DATE

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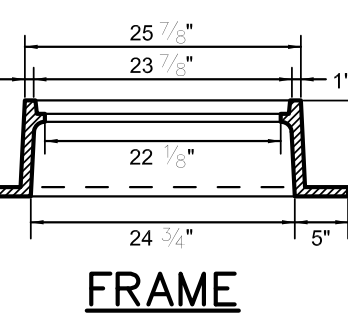


**APPROXIMATE WEIGHTS**

STEEL	IRON
COVER 157.54 LBS.	144.53 LBS.
FRAME 327.98 LBS.	300.90 LBS.
TOTAL 485.52 LBS.	445.43 LBS.

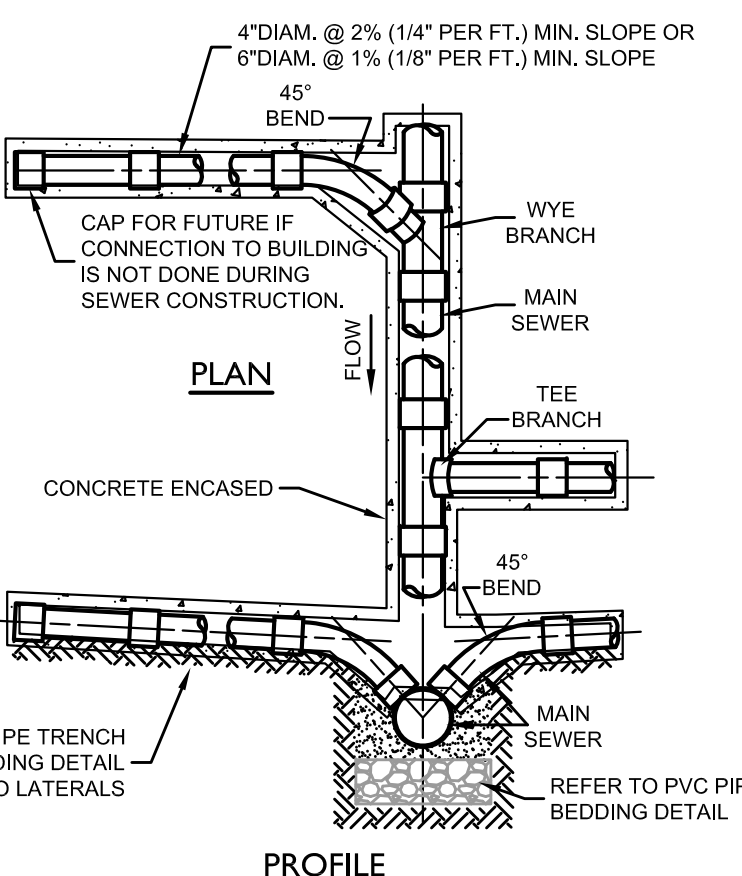
LABEL "DRAIN" FOR STORM "SEWER" FOR SANITARY

**COVER SECTION A-A**

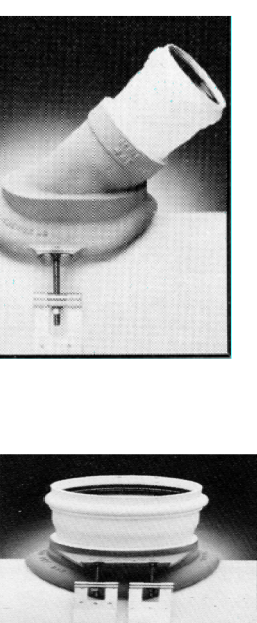


CAMPBELL FOUNDRY PATTERN NO. 1027\*  
\*PATTERN NO. 1027A SHALL BE USED FOR LOW PROFILE AREAS.

**STORM AND SANITARY MANHOLE FRAME AND COVER N.T.S.**



**LATERAL CONNECTION TO SANITARY SEWER N.T.S.**

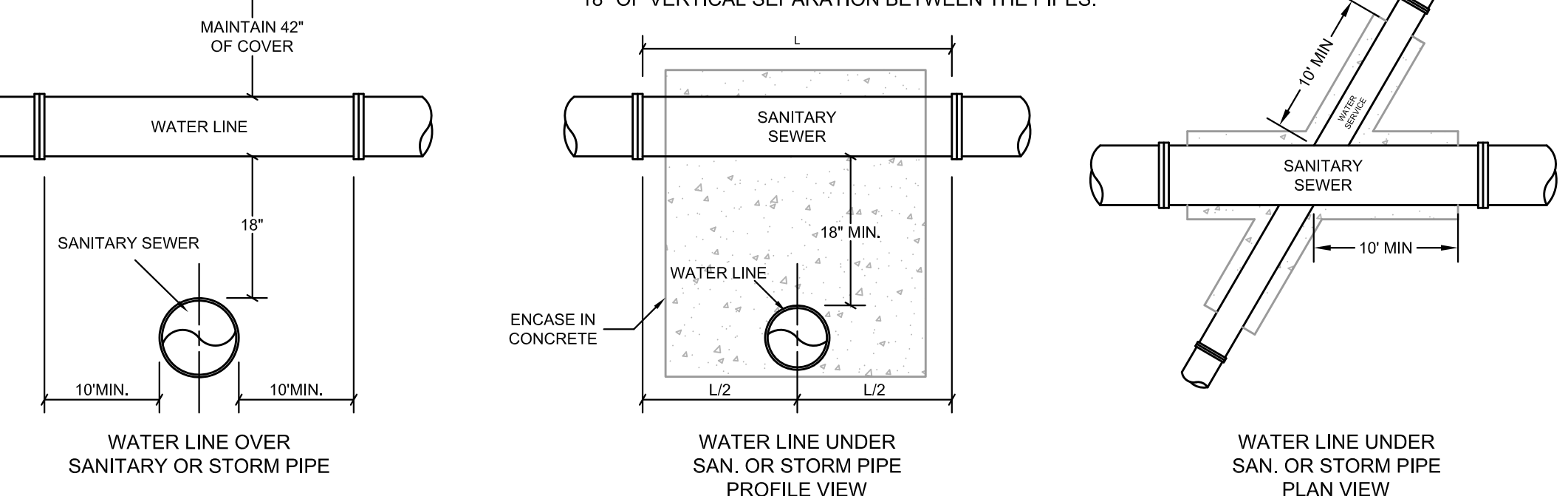


- \* NOTE:**
1. SEALTITE MULTI-RANGE SEWER PIPE SADDLE TO BE SIZED AND INSTALLED PER MANUFACTURER INSTRUCTIONS.
  2. APPLICANT AND THEIR CONTRACTOR SHALL COORDINATE AND SCHEDULE THE SEWER LATERAL CONNECTION WITH WPCA'S COLLECTION SYSTEM SUPERVISOR (203-977-5768) AT LEAST 3 WORKING DAYS IN ADVANCE. WPCA PERSONNEL MUST BE ON-SITE TO WITNESS AND PHOTOGRAPH THE SEWER LATERAL CONNECTION TO THE SANITARY CONVEYANCE SYSTEM. THE WORK SHALL OCCUR BETWEEN THE HOURS OF 7:30 A.M. AND 2:00 P.M. MONDAY THROUGH FRIDAY EXCEPT HOLIDAYS.
  3. AS PART OF THE FINAL APPROVAL, THE LOCATION OF THE LATERAL CONNECTION TO THE SANITARY SEWER SHALL BE PROVIDED ON A SKETCH WITH THE FOLLOWING INFORMATION:
    - DISTANCE INFORMATION FROM AT LEAST TWO PERMANENT STATIONS (I.E. TELEPHONE POLE WITH NUMBER, NEAREST MANHOLE COVER, CORNER OF BUILDING WITH ADDRESS, ETC.)
    - DEPTH OF LATERAL CONNECTION
  4. CAPPING THE EXISTING LATERALS SHALL BE WITNESSED BY THE STAMFORD BUILDING DEPARTMENT.

**SEALTITE MULTI-RANGE WYE AND TEE SEWER PIPE SADDLE DETAILS N.T.S.**

NOTE: WHERE THE WATER LINE PASSES ABOVE THE SANITARY SEWER, THE JOINTS OF THE PIPES SHALL BE A MINIMUM OF TEN FEET HORIZONTALLY FROM THE POINT OF CROSSING. MAINTAIN 18" OF VERTICAL SEPARATION BETWEEN THE PIPES.

NOTE: WHERE THE WATER LINE PASSES BENEATH THE SANITARY SEWER, THE JOINTS OF THE PIPES SHALL BE A MINIMUM OF TEN FEET FROM THE POINT OF CROSSING. BOTH PIPES SHALL BE ENCASED IN CONCRETE FOR A MINIMUM OF TEN FEET PAST THE POINT OF CROSSING IN BOTH DIRECTIONS. MAINTAIN 18" OF VERTICAL SEPARATION BETWEEN THE PIPES.



REQUIREMENTS AS STATED IN THE TWO NOTES ABOVE APPLY WHEN HORIZONTAL SEPARATION BETWEEN THE SEWER & WATER LINES IS LESS THAN TEN FEET AND VERTICAL SEPARATION IS LESS THAN 18".

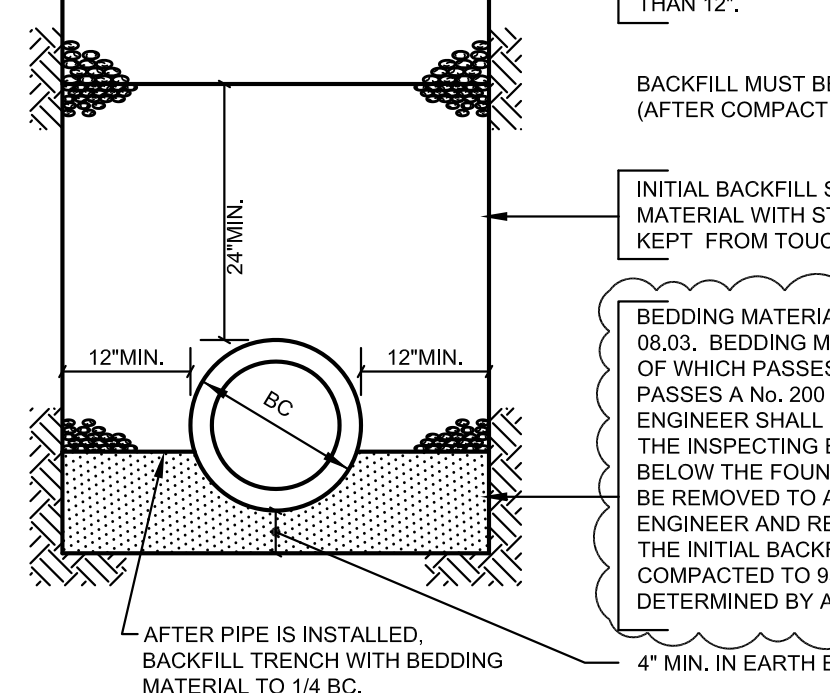
**CROSSINGS OF WATER SERVICE AND SAN. & STORM PIPES N.T.S.**

WATER STOP: 10' UPSTREAM OF STRUCTURES AND WHERE SHOWN, FOUNDATION MATERIAL, BEDDING, HAUNCHING, INITIAL BACKFILL, AND THE BOTTOM FOOT OF GENERAL BACKFILL TO BE REPLACED WITH SM, SC, OR ML SOIL AS PER UNIFIED SOIL CLASSIFICATION SYSTEM WITH MAXIMUM PARTICLE SIZE OF 1/12" FOR LINEAR FEET OF TRENCH. WATER STOP TO BE KEPT INTO TRENCH BOTTOM AND WALLS A MINIMUM OF ONE FOOT. NO STONES LARGER THAN 6" SHALL BE WITHIN 12" OF THE PIPE.

ALL FOUNDATION, INITIAL BACKFILL & BACKFILL MATERIAL TO BE APPROVED BY THE INSPECTING ENGINEER.

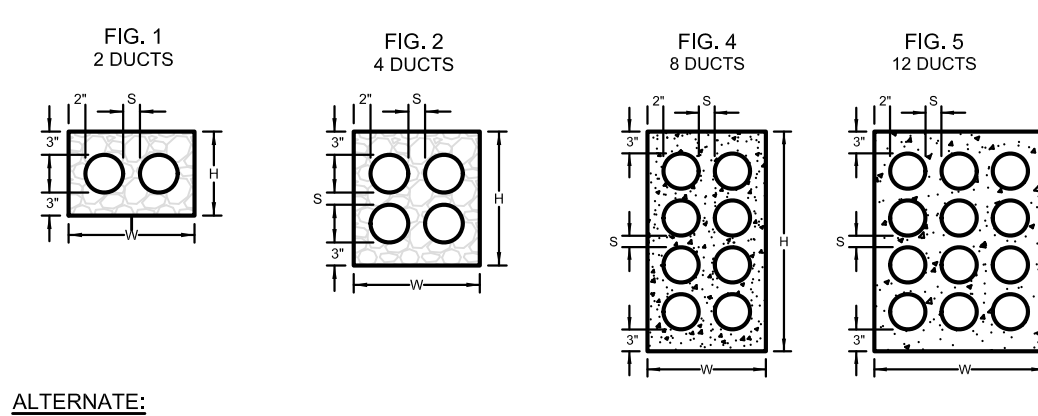
ANY DEVIATION FROM THESE METHODS & MATERIALS MUST BE APPROVED IN WRITING BY THE INSPECTING ENGINEER.

ALL MATERIAL TO BE COMPACTED TO 95% OF THE MAX. DRY DENSITY AS DETERMINED BY ASTM D1557, EXCEPT COMPACTED BACKFILL\* NOT UNDER PAVEMENT WHICH SHALL BE COMPACTED TO A DENSITY AT LEAST EQUAL TO THAT OF THE ADJACENT UNDISTURBED MATERIAL.

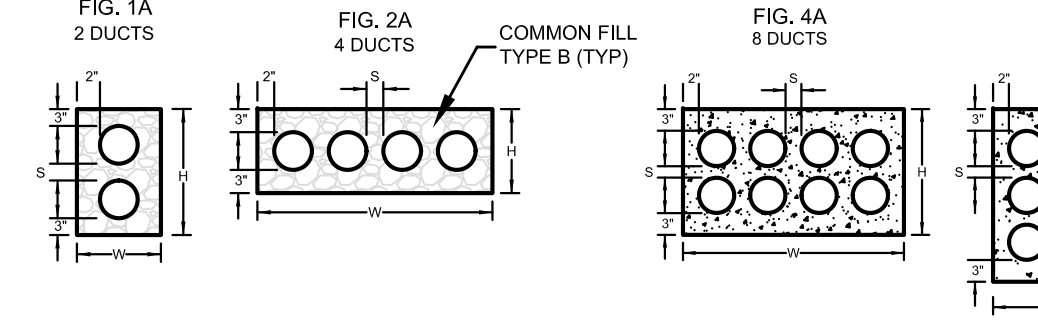


**PVC/RCP PIPE TRENCH BEDDING DETAIL (48" DIA. & UNDER) N.T.S.**

**PREFERRED:**

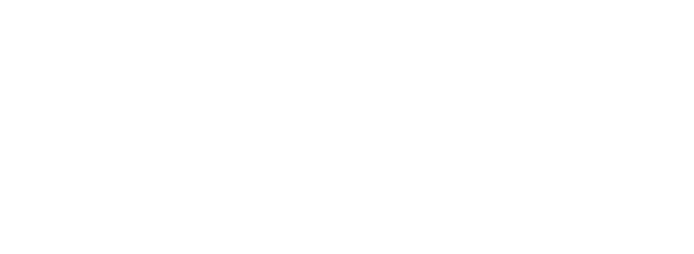


**ALTERNATE:** (SEE NOTE 4)



- BACKFILL:**  
MATERIAL FOR BACKFILL SHALL BE EARTH MATERIALS ENTIRELY FREE FROM VEGETATION, TRASH, LUMBER, FROZEN, SOFT OR ORGANIC MATERIALS. NO STONES OR ROCK LARGER THAN THE SIZES LISTED BELOW WILL BE PERMITTED IN THE BACKFILL:
- COMMON FILL-TYPE A: NO STONES OR ROCKS LARGER THAN 4"
  - COMMON FILL-TYPE B: NO STONES OR ROCKS LARGER THAN 4"
- COMMON FILL MATERIAL MAY BE OBTAINED FROM THE TRENCH EXCAVATION PROVIDED IT HAS BEEN APPROVED BY THE ENGINEER AND HAS BEEN TESTED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:**
1. ALL MATERIALS TO BE USED FOR BACKFILL, INCLUDING COMMON FILL AND BEDDING MATERIALS, WHETHER OBTAINED FROM THE TRENCH EXCAVATION OR FROM AN OFF-SITE SOURCE MUST BE TESTED AS DIRECTED BY THE ENGINEER.
  2. SAMPLES OF THE MATERIALS SHALL BE SUBMITTED TO AN APPROVED TESTING AGENCY FOR ANALYSIS. THE TEST RESULTS AND REPORT STATING THAT THE MATERIALS MEET THE REQUIREMENTS THESE SPECIFICATIONS AND THE SPECIFICATIONS OF FEDERAL, STATE AND LOCAL AUTHORITIES (WHERE APPLICABLE) SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACING THE MATERIALS IN THE PIPE TRENCH.
- NOTES:**
1. Minimum cover from top of a conduit bank to the pavement or earth surface to be 36".
  2. Duct bank shall extend beyond the property line and capped. Exact location of termination are per field direction. Allow for 20' deviation from locations shown on this plan.
  3. Ducts shall be Schedule 40 pipe. Use premanufactured spacers between conduits as necessary. Bends shall be sweeps, 4" C" Duct telephone bends meeting GTE 8343, United CHS-71 and NEMA TC-10 Specifications.
  4. Slope all conduit to drain toward manholes and away from structures.
  5. All work shall be performed according to utility company requirements.
  6. Ensure that the bottom of the trench is well-trenched and free of rocks.
  7. Install the conduit, gluing and all couplings.
  8. Install secondaries and other utility cables or conduits in the trench.
  9. Backfill with 12 inches clean fill not to contain stones larger than 4 inches in maximum diameter.
  10. Install cable warning.
  11. Fill in the remainder of the trench with native backfill.
  12. Install pull line, including 10 feet of slack, and secure to conduit plug at each end of conduit run.
  13. All underground conduit to schedule 40 PVC conduit.
  14. Actual utility layout may vary depending on final utility company coordination. Coordination of final layout shall be the contractor's responsibility.
  15. All underground utilities crossing a roadway shall be concrete encased.
  16. Concrete encasement shall be color red within the limits of the state right-of-way.

**CONDUIT BANK CONSTRUCTION N.T.S.**



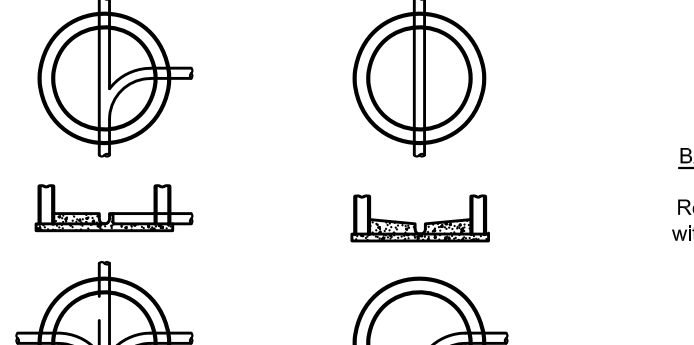
**MANHOLE INVERT N.T.S.**



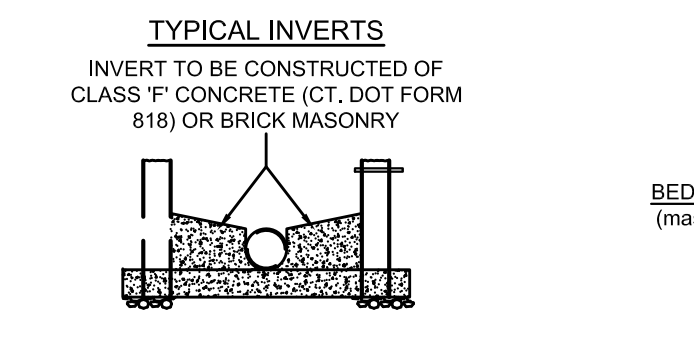
**OUTSIDE MANHOLE DROP CONNECTION N.T.S.**



**MANHOLE INVERT N.T.S.**

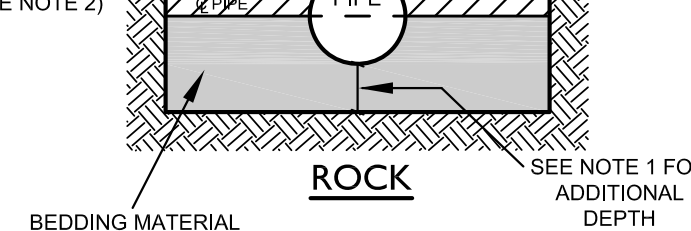
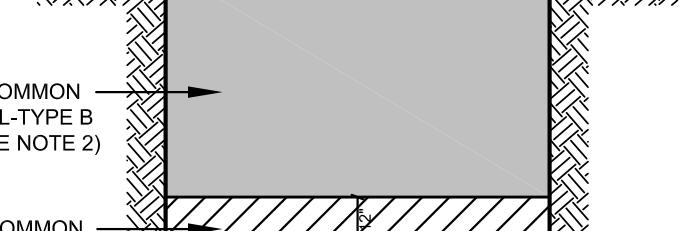
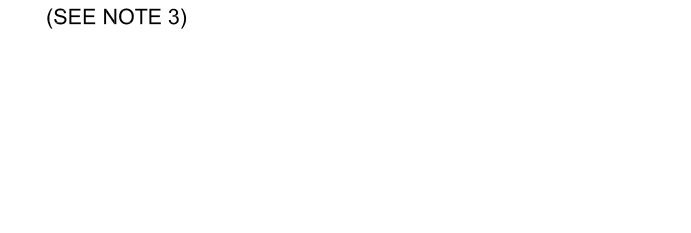
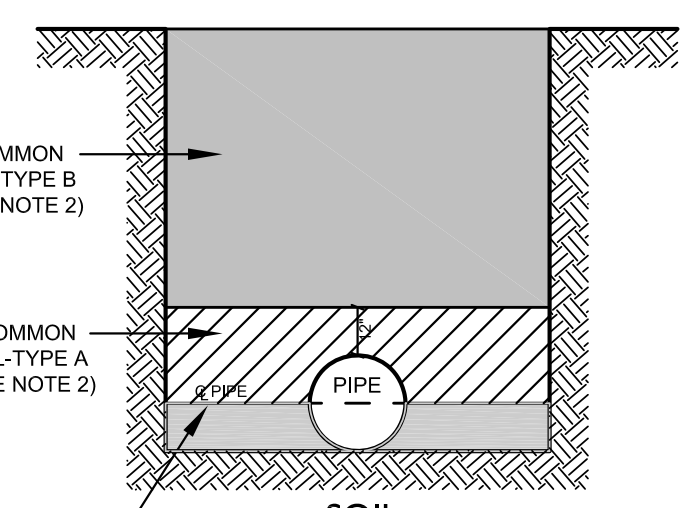


**MANHOLE INVERT N.T.S.**

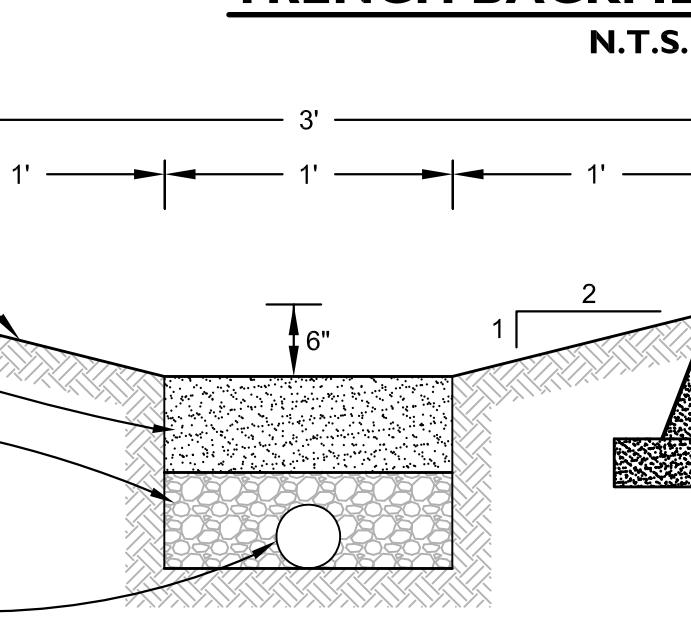


**MANHOLE INVERT N.T.S.**

**MANHOLE INVERT N.T.S.**



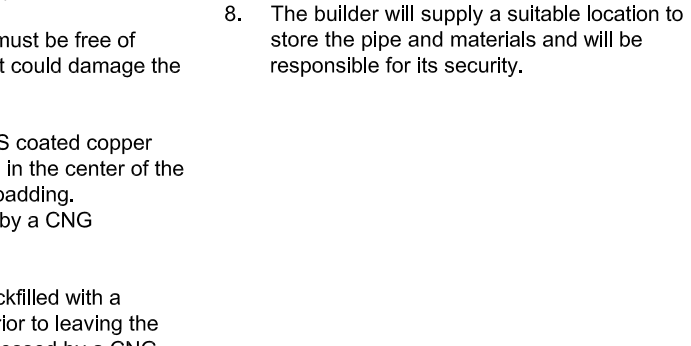
**TRENCH BACKFILL MATERIALS N.T.S.**



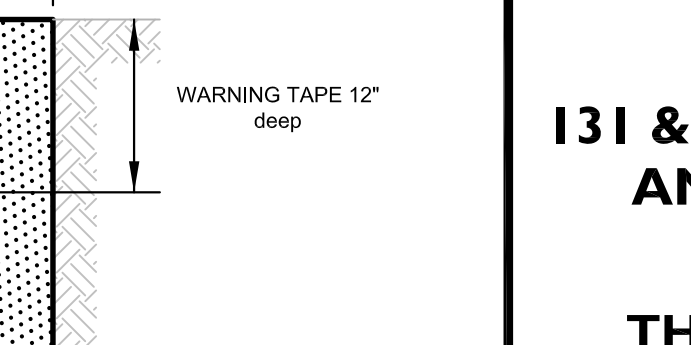
**GRASS SWALE N.T.S.**



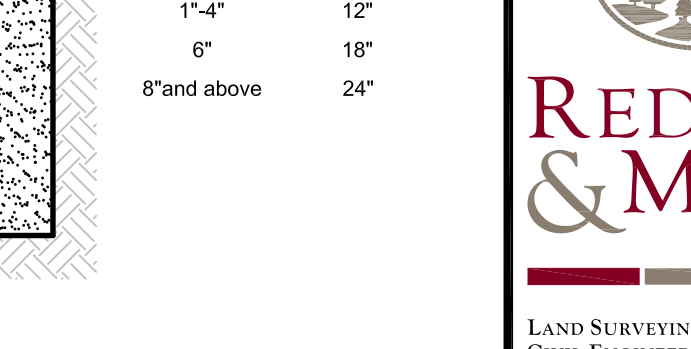
**GRASS SWALE N.T.S.**



**GRASS SWALE N.T.S.**



**GRASS SWALE N.T.S.**



**GRASS SWALE N.T.S.**

**GRASS SWALE N.T.S.**

- Notes:**
1. A minimum of 10" vertical clearance and 50" horizontal clearance will be maintained between the gas line and all other structures.
  2. Minimum cover for mains shall be 30" from finished grade as measured from gutter line.
  3. Minimum cover of service lines in private property shall be 20" only when approved by the CNG Inspector or designee.
  4. The bottom of the trench must be free of rocks, debris, or water that could damage the pipe or its coating.
  5. Tracing Wire is a #12 AWS coated copper tracing wire to be installed in the center of the trench prior to 6" of sand padding. (Connection will be made by a CNG Representative).
  6. Exposed piping will be backfilled with a minimum of 12" of sand prior to leaving the job site each day and witnessed by a CNG Representative or CNG Contractor.
  7. Only personnel qualified by CNG will be allowed to install gas lines.
  8. The builder will supply a suitable location to store the pipe and materials and will be responsible for its security.

**PIPE/TRENCH TABLE**

Pipe Diameter	Trench Width
1"-4"	12"
6"	18"
8" and above	24"

**TRENCH WIDTH VARIES (See Table)**

**WARNING TAPE 12" deep**

**BACKFILL-24":** Backfill material shall be inspected and approved by a CNG Representative, and must be compacted with one foot lifts by a pneumatic tamper.

**PROTECTIVE LAYER-12":** Protective layer consisting of coarse to fine sand with maximum stone size of 1".

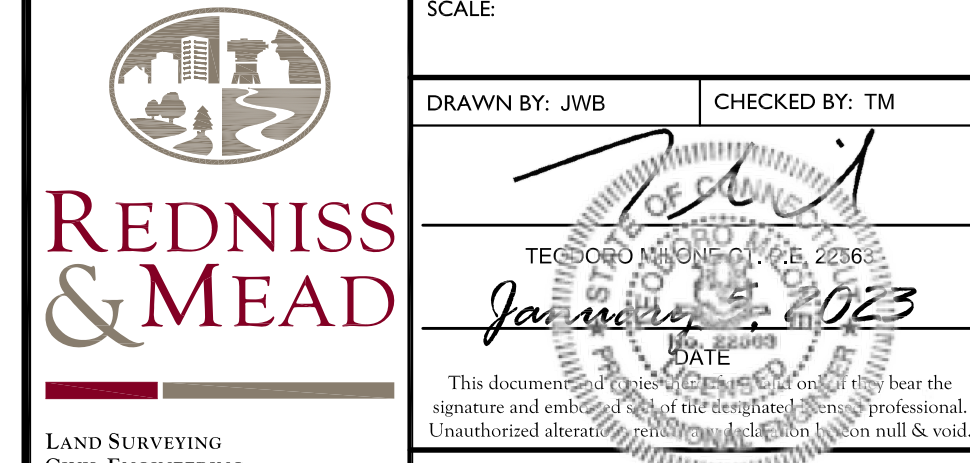
**GAS LINE** See Pipe/Trench Table

**BEDDING-6":** Layer of coarse to fine sand (masons grade) with maximum stone size of 1".

**TRACING WIRE:** #12 AWS coated copper wire.

No.	Date	Revision
2	01/05/2023	REVISED PER CITY OF STAMFORD COMMENTS
1	10/28/2022	ISSUED FOR PERMIT

**DETAILS DEPICING**  
**131 & 139 TURN OF RIVER ROAD AND 29 INTERVALE ROAD**  
STAMFORD, CT  
PREPARED FOR  
**THI, LLC & HB CAPITAL LLC.**



SCALE  
DRAWN BY: JWB CHECKED BY: TM  
**REDNISS & MEAD**  
LAND SURVEYING CIVIL ENGINEERING PLANNING & ZONING CONSULTING PERMITTING  
22 First Street | Stamford, CT 06905  
Tel: 203.327.0500 | Fax: 203.357.1118  
www.rednissmead.com

**SE-6**

Comm. No.: 9734

**CULTEC RECHARGER® 360HD PRODUCT SPECIFICATIONS**

**GENERAL**  
CULTEC RECHARGER® 360HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

**CHAMBER PARAMETERS**  
1. THE CHAMBERS SHALL BE MANUFACTURED IN THE U.S.A. OR CANADA BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)  
2. THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F7287 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONFIGURATION SHALL INCLUDE:  
A. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER  
B. MAXIMUM PERMANENT (50-YEAR) COVER LOAD  
C. 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD  
3. THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".  
4. THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12, WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:  
A. THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430  
B. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75  
C. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95  
5. THE CHAMBER SHALL BE STRUCTURAL FOAM INJECTION MOLDED OF BLUE VIRGIN HIGH MOLECULAR WEIGHT IMPACT-MODIFIED POLYPROPYLENE.  
6. THE CHAMBER SHALL BE ARCHED IN SHAPE.  
7. THE CHAMBER SHALL BE OPEN-BOTTOMED.  
8. THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.  
9. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER® 360HD SHALL BE 36 INCHES (915 mm) TALL, 60 INCHES (1525 mm) WIDE AND 50 INCHES (1275 mm) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER® 360HD SHALL BE 3.67 FEET (1.12 m).  
10. MULTIPLE CHAMBERS MAY BE CONNECTED TO FORM DIFFERENT LENGTH ROWS. EACH ROW SHALL BEGIN AND END WITH A SEPARATELY FORMED CULTEC RECHARGER® 360HD END CAP. MAXIMUM INLET OPENING ON THE END CAP IS 24 INCH (600 mm) HDPE OR 30 INCH (750mm) PVC.  
11. THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV FC-48 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. MAXIMUM ALLOWABLE PIPE SIZE IN THE SIDE PORTAL IS 10 INCH (250mm) HDPE OR 12 INCH (300mm) PVC.  
12. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 49 INCHES (1245 mm) LONG.  
13. THE NOMINAL STORAGE VOLUME OF THE RECHARGER® 360HD CHAMBER SHALL BE 10.0 FT<sup>3</sup> / FT (928 m<sup>3</sup> / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER® 360HD SHALL BE 36.66 FT<sup>3</sup> / UNIT (1,038 m<sup>3</sup> / UNIT) - WITHOUT STONE.  
14. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-48 FEED CONNECTOR SHALL BE 0.913 FT<sup>3</sup> / FT (0.085 m<sup>3</sup> / m) - WITHOUT STONE.  
15. THE RECHARGER® 360HD CHAMBER SHALL HAVE 7 CORRUGATIONS.  
16. THE CHAMBER SHALL BE MANUFACTURED IN A FACILITY EMPLOYING CULTEC'S QUALITY CONTROL AND ASSURANCE PROCEDURES.  
17. MAXIMUM ALLOWABLE COVER OVER THE TOP OF THE CHAMBER SHALL BE 12.0 FEET (3.66 m).

**END CAP PARAMETERS**

1. THE CULTEC RECHARGER® 360HD END CAP (REFERRED TO AS 'END CAP') SHALL BE MANUFACTURED IN THE U.S.A. OR CANADA BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)  
2. THE END CAP SHALL BE STRUCTURAL FOAM INJECTION MOLDED OF BLUE VIRGIN HIGH MOLECULAR WEIGHT IMPACT-MODIFIED POLYPROPYLENE.  
3. THE END CAP SHALL BE ARCHED IN SHAPE.  
4. THE END CAP SHALL BE OPEN-BOTTOMED.  
5. THE END CAP SHALL BE JOINED AT THE BEGINNING AND END OF EACH ROW OF CHAMBERS USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.  
6. THE END CAP SHALL HAVE 5 CORRUGATIONS.  
7. THE NOMINAL DIMENSIONS OF THE END CAP SHALL BE 5.17 FEET / FT (1.58 m) TALL, 60 INCHES (1525 mm) WIDE AND 18 INCHES (458 mm) LONG. WHEN JOINED WITH A RECHARGER 360HD CHAMBER, THE INSTALLED LENGTH OF THE END CAP SHALL BE 15 INCHES (381 mm).  
8. THE NOMINAL STORAGE VOLUME OF THE END CAP SHALL BE 5.17 FT<sup>3</sup> / FT (0.48 m<sup>3</sup> / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF AN INTERLOCKED END CAP SHALL BE 6.46 FT<sup>3</sup> / UNIT (0.183 m<sup>3</sup> / UNIT) - WITHOUT STONE.  
9. MAXIMUM INLET OPENING ON THE END CAP IS 24 INCH (600 mm) HDPE OR 30 INCH (750mm) PVC.  
10. THE CHAMBER SHALL BE MANUFACTURED IN A FACILITY EMPLOYING CULTEC'S QUALITY CONTROL AND ASSURANCE PROCEDURES.  
11. THE END CAP SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12.

**CULTEC HVLV FC-48 FEED CONNECTOR PRODUCT SPECIFICATIONS**

**GENERAL**  
CULTEC HVLV FC-48 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER MODEL 360HD STORMWATER CHAMBERS.

**FEED CONNECTOR PARAMETERS**  
1. THE FEED CONNECTOR SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)  
2. THE FEED CONNECTOR SHALL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE).  
3. THE FEED CONNECTOR SHALL BE ARCHED IN SHAPE.  
4. THE FEED CONNECTOR SHALL BE OPEN-BOTTOMED.  
5. THE NOMINAL DIMENSIONS OF THE CULTEC HVLV FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 49 INCHES (1245 mm) LONG.  
6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-48 FEED CONNECTOR SHALL BE 0.913 FT<sup>3</sup> / FT (0.085 m<sup>3</sup> / m) - WITHOUT STONE.  
7. THE HVLV FC-48 FEED CONNECTOR SHALL HAVE 4 CORRUGATIONS.  
8. THE HVLV FC-48 FEED CONNECTOR MUST BE FORMED AS A WHOLE UNIT HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.  
9. THE FEED CONNECTOR SHALL BE DESIGNED TO WITHSTAND AASHTO HS-20 DEFINED LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.  
10. THE FEED CONNECTOR SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

**CULTEC NO. 410™ NON-WOVEN GEOTEXTILE**

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTOR® AND RECHARGER® STORMWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL INTRUSION INTO THE STONE.

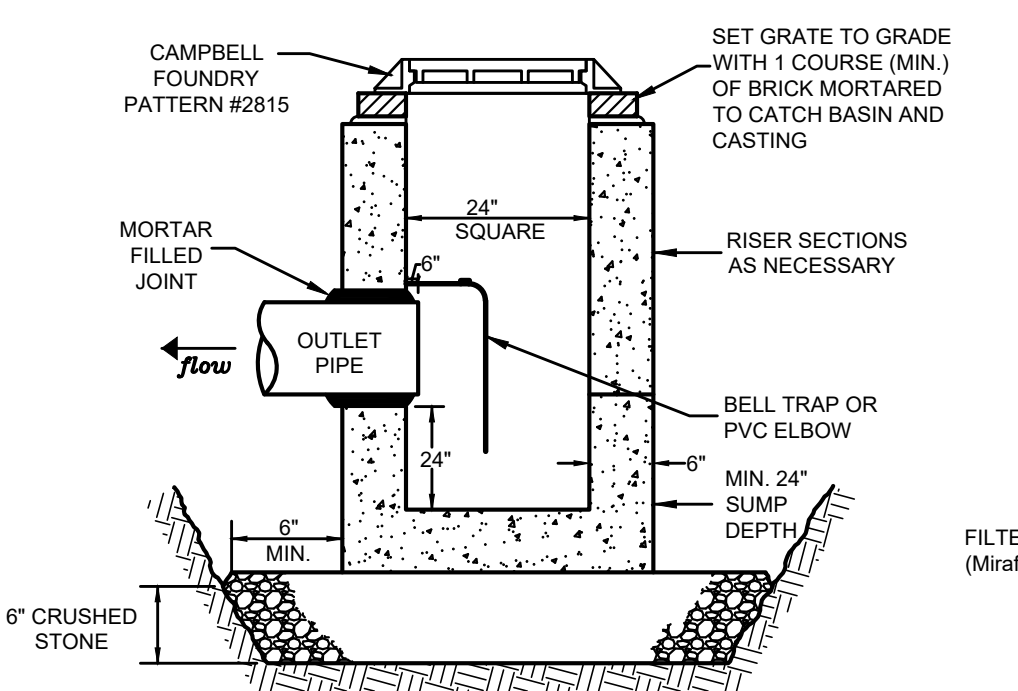
**GEOTEXTILE PARAMETERS**  
1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)  
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.  
3. THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M).  
4. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH VALUE OF 120 LBS (533 N) PER ASTM D4632 TESTING METHOD.  
5. THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK VALUE OF 50% PER ASTM D4632 TESTING METHOD.  
6. THE GEOTEXTILE SHALL HAVE A MULLEN BURST VALUE OF 225 PSI (1551 KPA) PER ASTM D3786 TESTING METHOD.  
7. THE GEOTEXTILE SHALL HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4833 TESTING METHOD.  
8. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE VALUE OF 340 LBS (1513 N) PER ASTM D6241 TESTING METHOD.  
9. THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR VALUE OF 50 LBS (222 N) PER ASTM D4533 TESTING METHOD.  
10. THE GEOTEXTILE SHALL HAVE A AOS VALUE OF 70 U.S. SIEVE (0.212 MM) PER ASTM D4751 TESTING METHOD.  
11. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY VALUE OF 1.7 SEC-1 PER ASTM D4491 TESTING METHOD.  
12. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SF (5500 L/MIN/SM) PER ASTM D4491 TESTING METHOD.  
13. THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355 TESTING METHOD.

**CULTEC NO. 4800™ WOVEN GEOTEXTILE**

CULTEC NO. 4800 WOVEN GEOTEXTILE IS DESIGNED AS AN UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE.

**GEOTEXTILE PARAMETERS**  
1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)  
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.  
3. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 550 X 550 LBS (2,448 X 2,448 N) PER ASTM D4632 TESTING METHOD.  
4. THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK RESISTANCE OF 20 X 20% PER ASTM D4632 TESTING METHOD.  
5. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 5,070 X 5,070 LBS/FT (74 X 74 KN/M) PER ASTM D4595 TESTING METHOD.  
6. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 2% STRAIN OF 960 X 1,096 LBS/FT (14 X 16 KN/M) PER ASTM D4595 TESTING METHOD.  
7. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 5% STRAIN OF 2,740 X 2,740 LBS/FT (40 X 40 KN/M) PER ASTM D4595 TESTING METHOD.  
8. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 10% STRAIN OF 4,800 X 4,800 LBS/FT (70 X 70 KN/M) PER ASTM D4595 TESTING METHOD.  
9. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,700 LBS (7,560 N) PER ASTM D6241 TESTING METHOD.  
10. THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 180 X 180 LBS (801 X 801 N) PER ASTM D4533 TESTING METHOD.  
11. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM D4751 TESTING METHOD.  
12. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.15 SEC-1 PER ASTM D4491 TESTING METHOD.  
13. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 11.5 GPM/FT2 (470 LPM/M2) PER ASTM D4491 TESTING METHOD.  
14. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 80% @ 500 HRS. PER ASTM D4355 TESTING METHOD.

**GENERAL NOTES**



**NOTES**  
1. ALL CATCH BASIN COMPONENTS TO BE PRE-CAST REINFORCED CONCRETE. ABLE TO WITHSTAND THE APPLIED EARTH LOADS WITH AN H-20 TRUCK LOAD.  
2. ALL JOINTS TO BE MORTARED.  
3. AREA DRAIN SHALL CONFORM TO ASTM C478.  
4. ALL CRUSHED STONE SHALL BE GRADATION NO. 4 AS PER CT D.O.T. FORM 818.  
ARTICLE M.01.01. STONE SHALL CONSIST OF SOUND, TOUGH, DURABLE PARTICLES FREE FROM SOFT, THIN, ELONGATED, LAMINATED, FRIABLE, MICACEOUS OR DISINTEGRATED PIECES, MUD, DIRT OR OTHER DELETERIOUS MATERIAL.

**CRUSHED STONE LEVEL SPREADER DETAIL**

N.T.S.

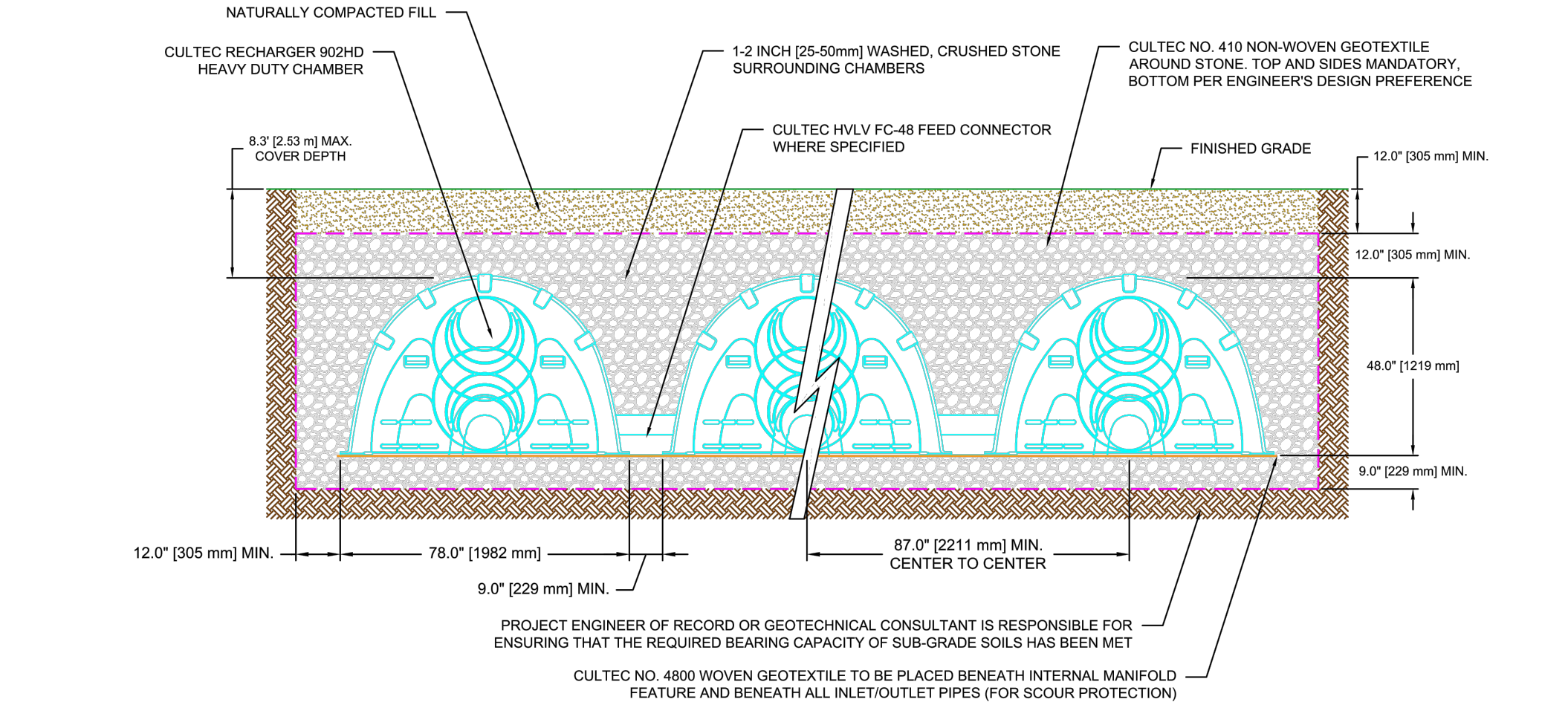
**JUNCTION BOX INVERT DETAIL**

N.T.S.

**JUNCTION BOX**

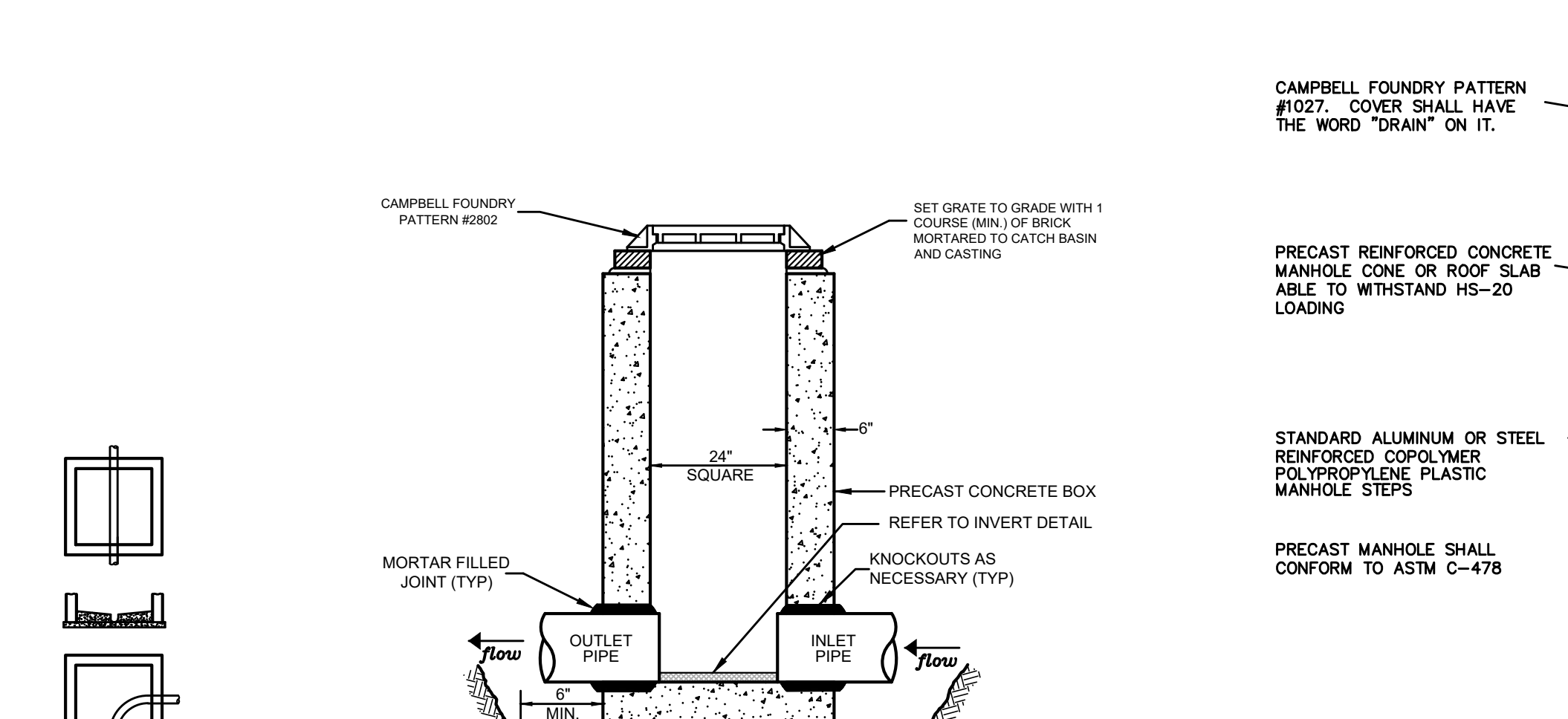
N.T.S.

**CULTEC RECHARGER 360HD HEAVY DUTY CROSS SECTION**



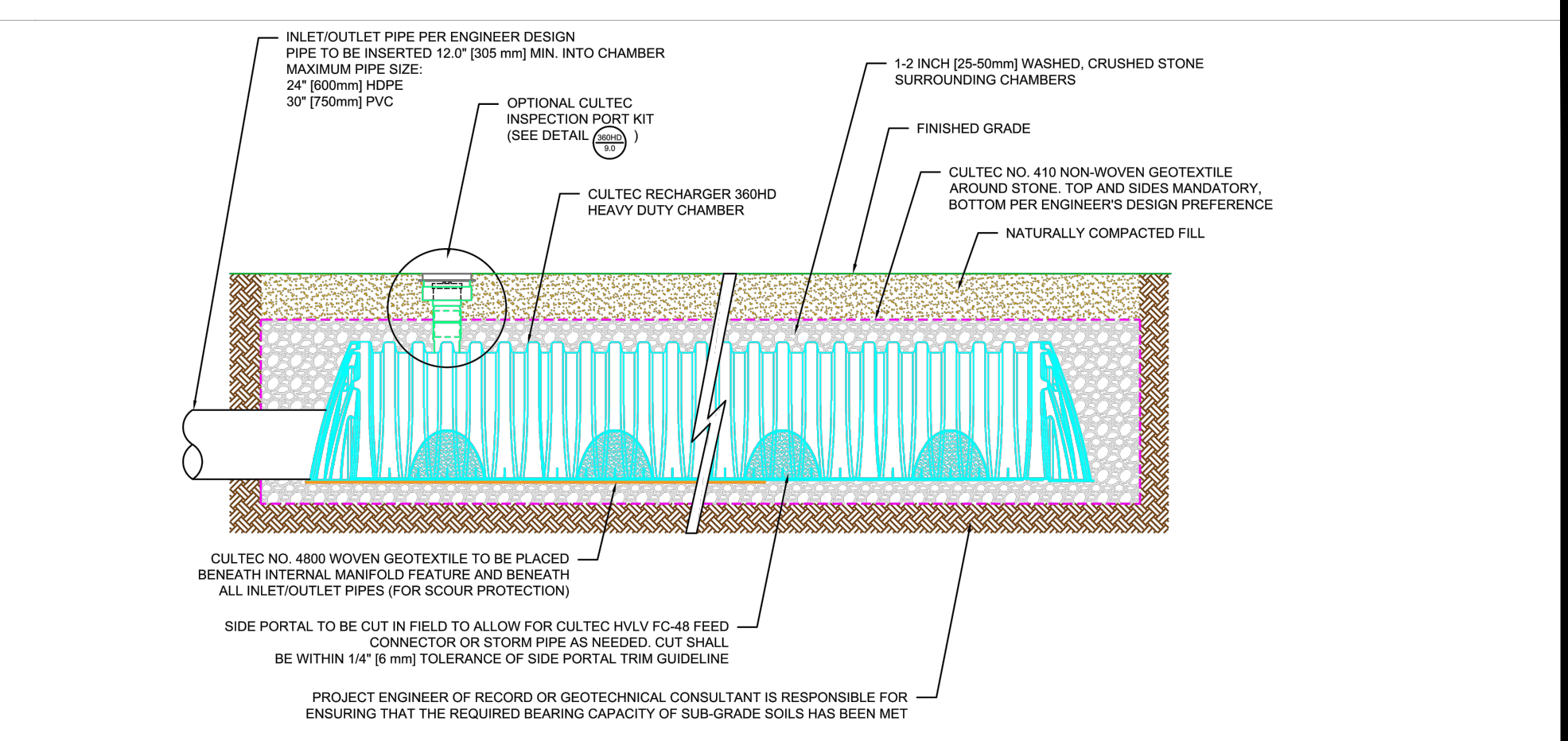
**NOTES**  
1. THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS." THE LOAD CONFIGURATION SHALL INCLUDE:  
1.a. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER  
1.b. MAXIMUM PERMANENT (50-YEAR) COVER LOAD  
1.c. 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD  
2. THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:  
3.a. THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430  
3.b. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75  
3.c. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95

**CULTEC RECHARGER 902HD HEAVY DUTY CROSS SECTION**



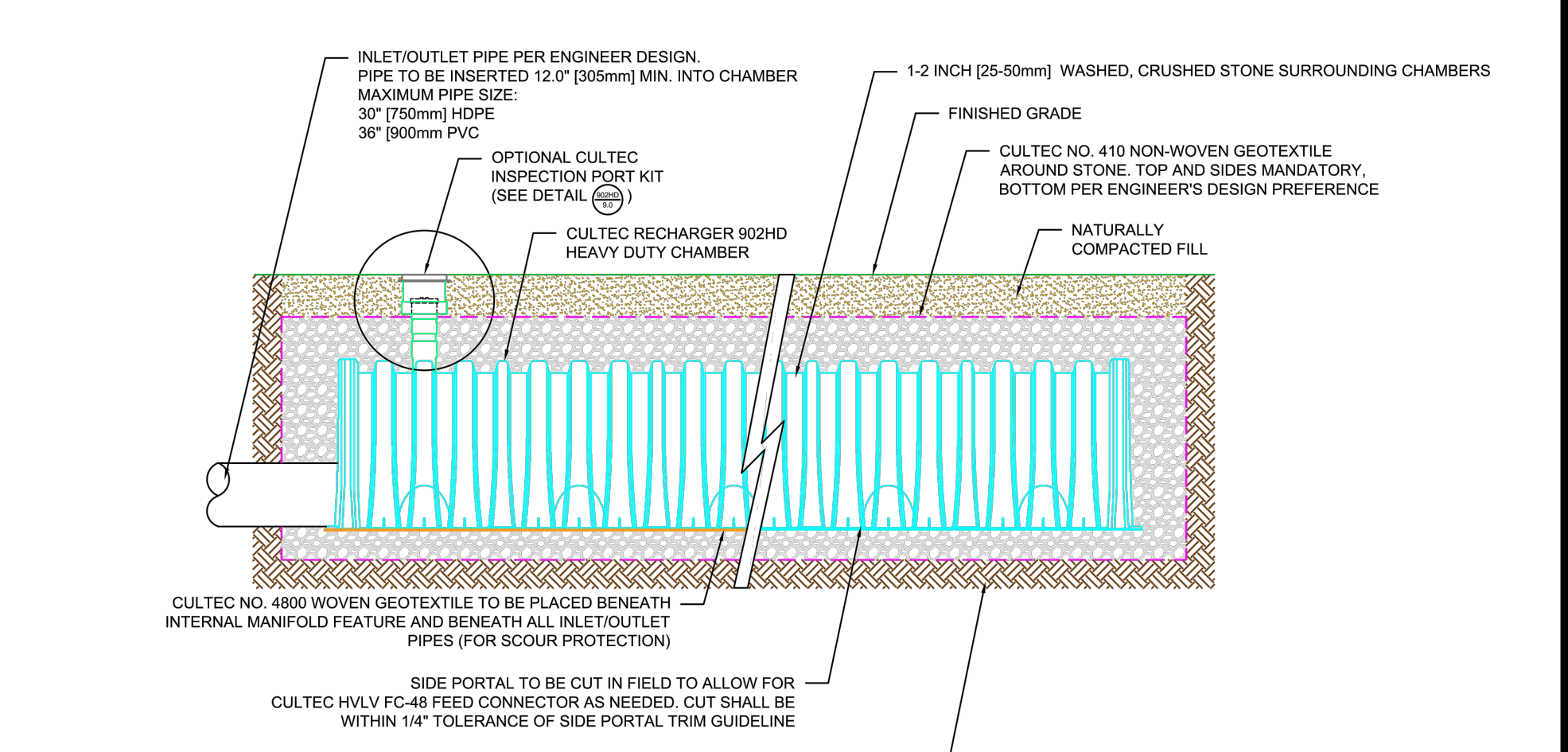
**NOTES**  
1. ALL COMPONENTS TO BE PRE-CAST REINFORCED CONCRETE, ABLE TO WITHSTAND THE APPLIED EARTH LOADS OF AN H-20 TRUCK LOAD.  
2. ALL JOINTS TO BE MORTARED.  
3. JUNCTION BOXES SHALL CONFORM TO ASTM C478.  
4. ALL CRUSHED STONE SHALL BE GRADATION NO. 4 AS PER CT D.O.T. FORM 818. ARTICLE M.01.01. STONE SHALL CONSIST OF SOUND, TOUGH, DURABLE PARTICLES FREE FROM SOFT, THIN, ELONGATED, LAMINATED, FRIABLE, MICACEOUS OR DISINTEGRATED PIECES, MUD, DIRT OR OTHER DELETERIOUS MATERIAL.

**CULTEC INTERNAL MANIFOLD - OPTIONAL INSPECTION PORT DETAIL**



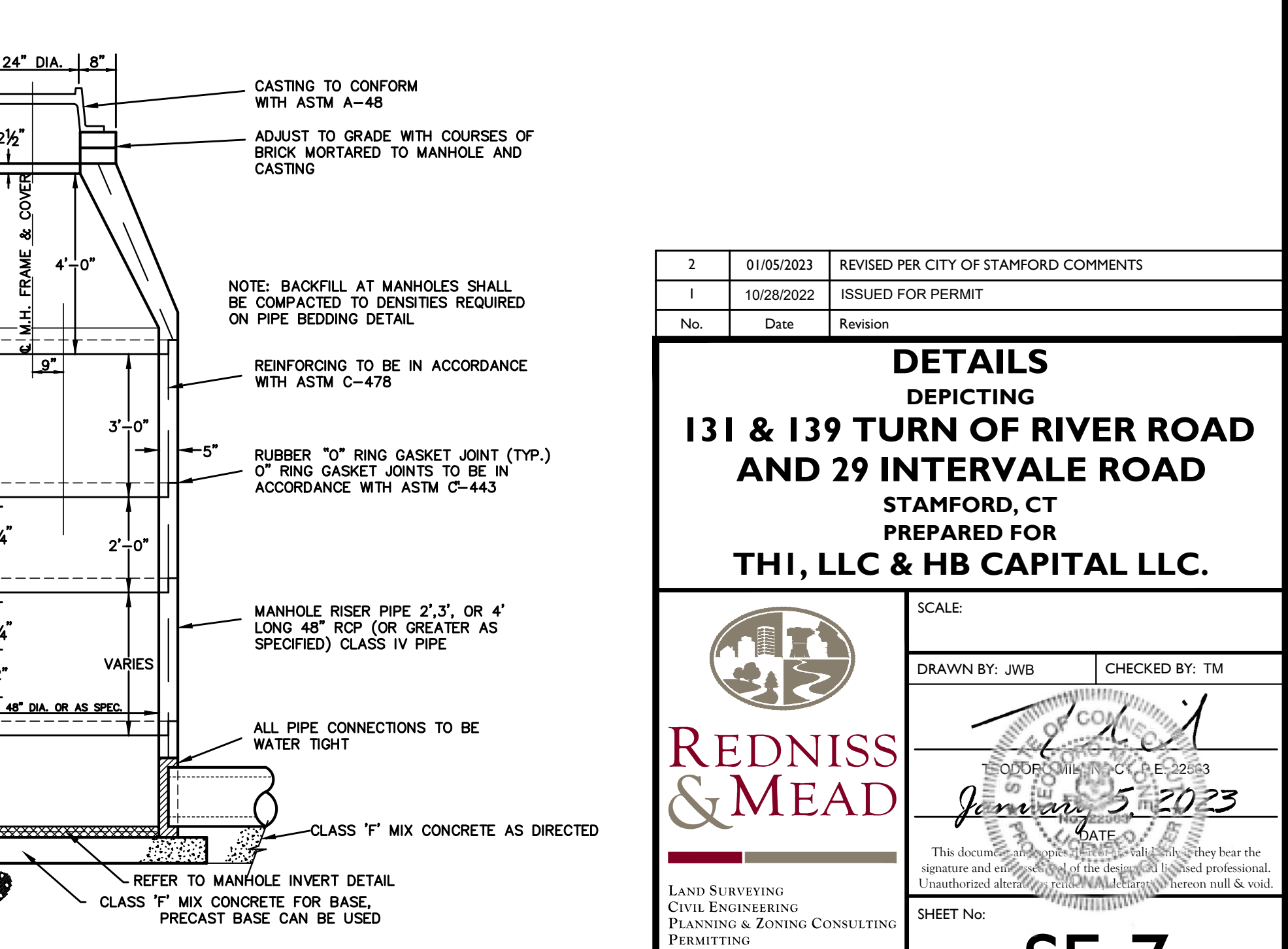
**NOTES**  
1. THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS." THE LOAD CONFIGURATION SHALL INCLUDE:  
1.a. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER  
1.b. MAXIMUM PERMANENT (50-YEAR) COVER LOAD  
1.c. 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD  
2. THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:  
3.a. THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430  
3.b. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75  
3.c. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95

**CULTEC INTERNAL MANIFOLD - OPTIONAL INSPECTION PORT DETAIL**



**NOTES**  
1. THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS." THE LOAD CONFIGURATION SHALL INCLUDE:  
1.a. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER  
1.b. MAXIMUM PERMANENT (50-YEAR) COVER LOAD  
1.c. 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD  
2. THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:  
3.a. THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430  
3.b. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75  
3.c. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95

**CULTEC INTERNAL MANIFOLD - (OPTIONAL INSPECTION PORT DETAIL)**



**NOTES**  
1. ALL COMPONENTS TO BE PRE-CAST REINFORCED CONCRETE, ABLE TO WITHSTAND THE APPLIED EARTH LOADS OF AN H-20 TRUCK LOAD.  
2. ALL JOINTS TO BE MORTARED.  
3. JUNCTION BOXES SHALL CONFORM TO ASTM C478.  
4. ALL CRUSHED STONE SHALL BE GRADATION NO. 4 AS PER CT D.O.T. FORM 818. ARTICLE M.01.01. STONE SHALL CONSIST OF SOUND, TOUGH, DURABLE PARTICLES FREE FROM SOFT, THIN, ELONGATED, LAMINATED, FRIABLE, MICACEOUS OR DISINTEGRATED PIECES, MUD, DIRT OR OTHER DELETERIOUS MATERIAL.

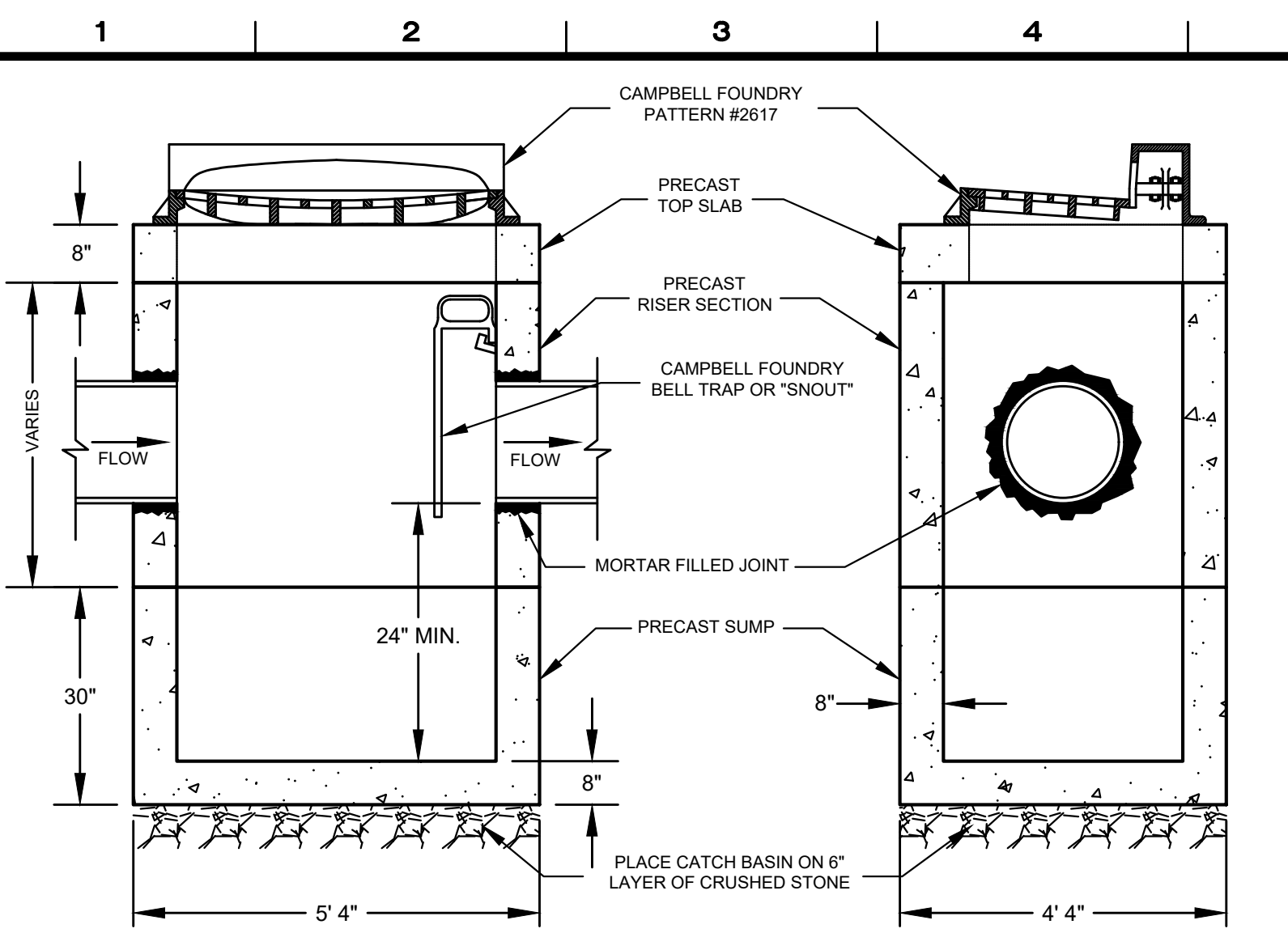
No.	Date	Revision
2	01/05/2023	REVISED PER CITY OF STAMFORD COMMENTS
1	10/28/2022	ISSUED FOR PERMIT
		Revision

**DETAILS**  
DEPICTING  
**131 & 139 TURN OF RIVER ROAD**  
**AND 29 INTERVALE ROAD**  
STAMFORD, CT  
PREPARED FOR  
**THI, LLC & HB CAPITAL LLC.**

SCALE:  
DRAWN BY: JWB CHECKED BY: TM  
**REDNISS & MEAD**  
LAND SURVEYING  
CIVIL ENGINEERING  
PLANNING & ZONING CONSULTING  
PERMITTING  
SHEET No: **SE-7**  
22 First Street | Stamford, CT 06905  
Tel: 203.327.0500 | Fax: 203.557.1118  
www.rednissandmead.com  
Comm. No.: 9734

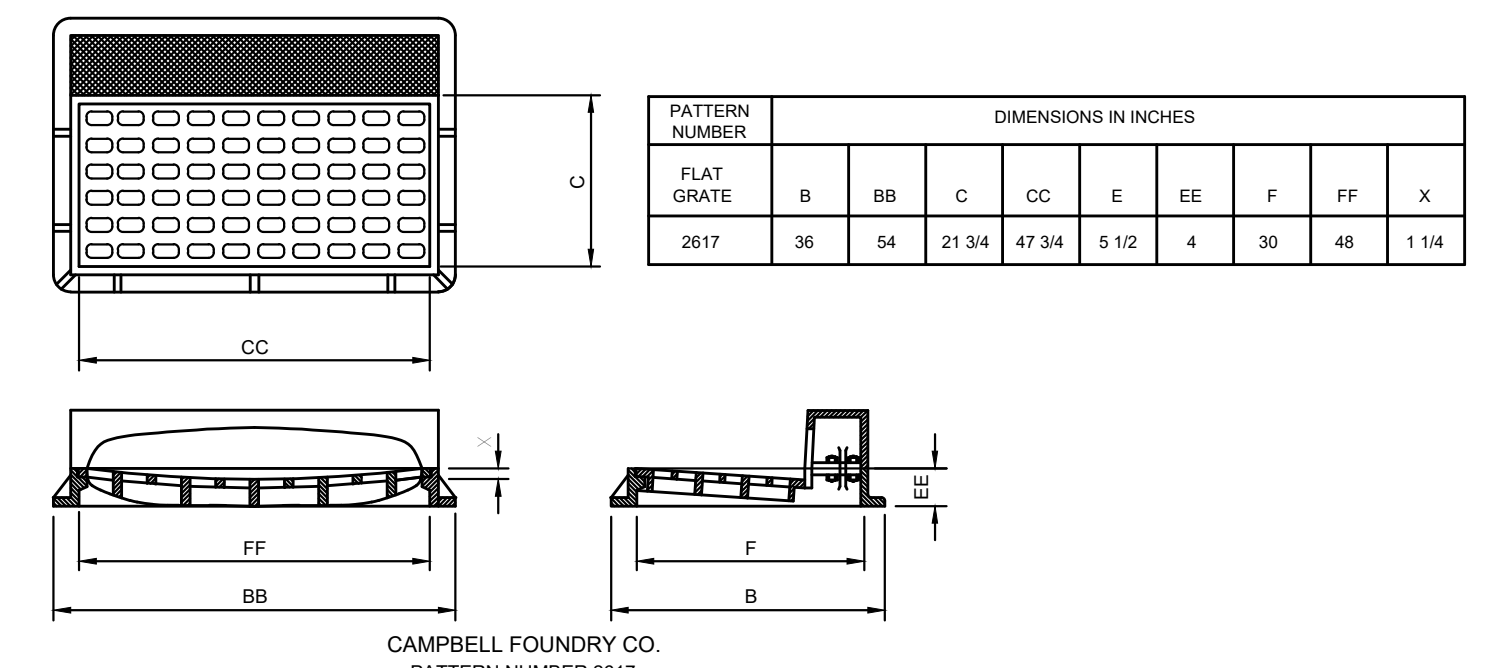
17/2023 11:18 P.M.H.:\cibarra\680097009734\DWG\SE-7.dwg Notes & Details.dwg



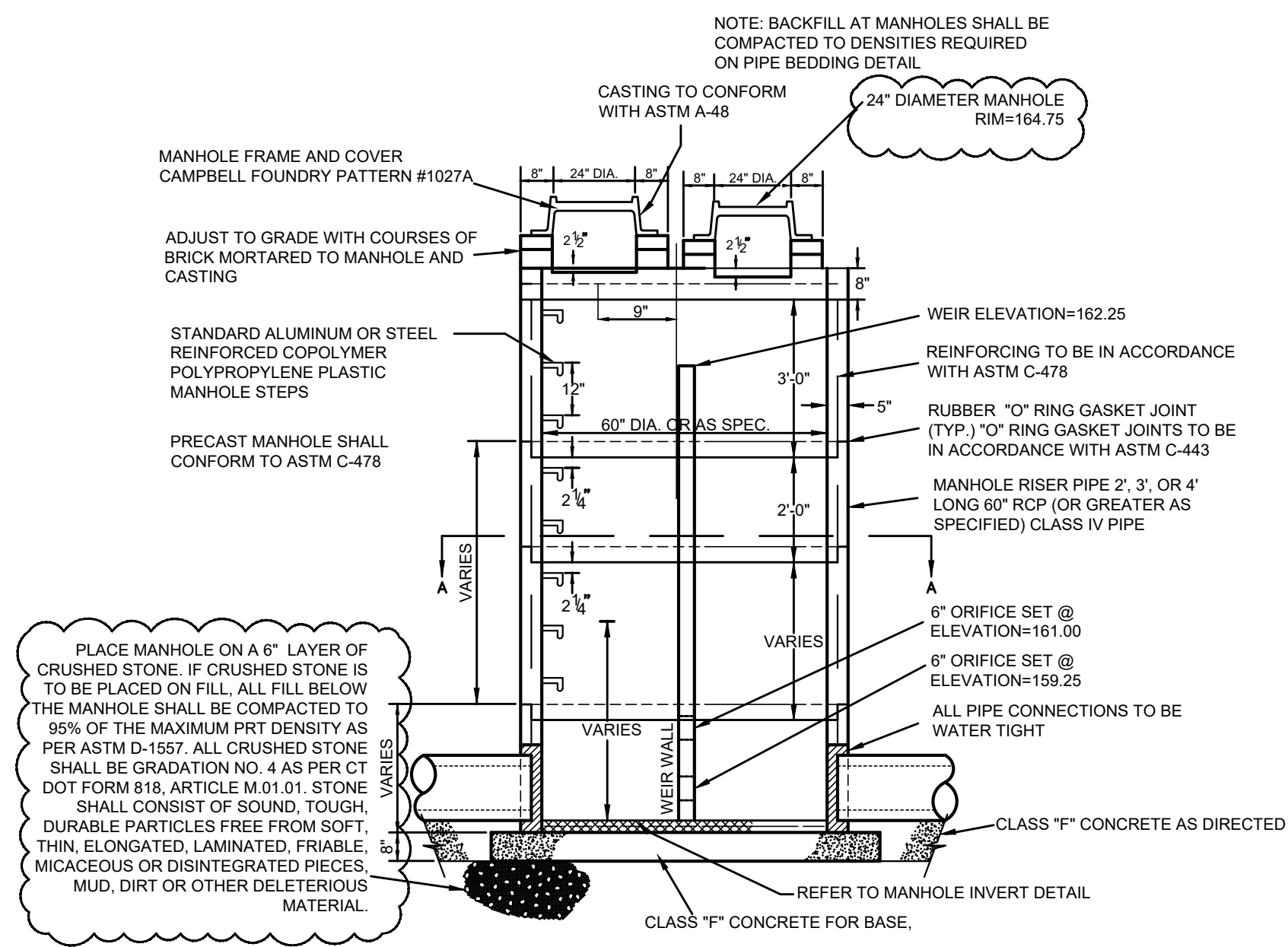


- NOTES:**
- ALL CATCH BASIN COMPONENTS TO BE PRE-CAST REINFORCED CONCRETE, ABLE TO WITHSTAND THE APPLIED EARTH LOADS WITH AN H-20 TRUCK LOAD.
  - ALL JOINTS TO BE MORTARED.
  - CATCH BASIN SHALL CONFORM TO ASTM C478.
  - ALL CRUSHED STONE SHALL BE GRADATION NO. 4 AS PER CT D.O.T. FORM 818, ARTICLE M.01.01. STONE SHALL CONSIST OF SOUND, TOUGH, DURABLE PARTICLES FREE FROM SOFT, THIN, ELONGATED, LAMINATED, FRIABLE, MICACEOUS OR DISINTEGRATED PIECES, MUD, DIRT OR OTHER DELETERIOUS MATERIAL.
  - IF CRUSHED STONE IS TO BE PLACED ON FILL, ALL FILL BELOW THE CB SHALL BE COMPACTED TO 95% OF THE MAXIMUM PRT DENSITY AS PER ASTM D.1557.

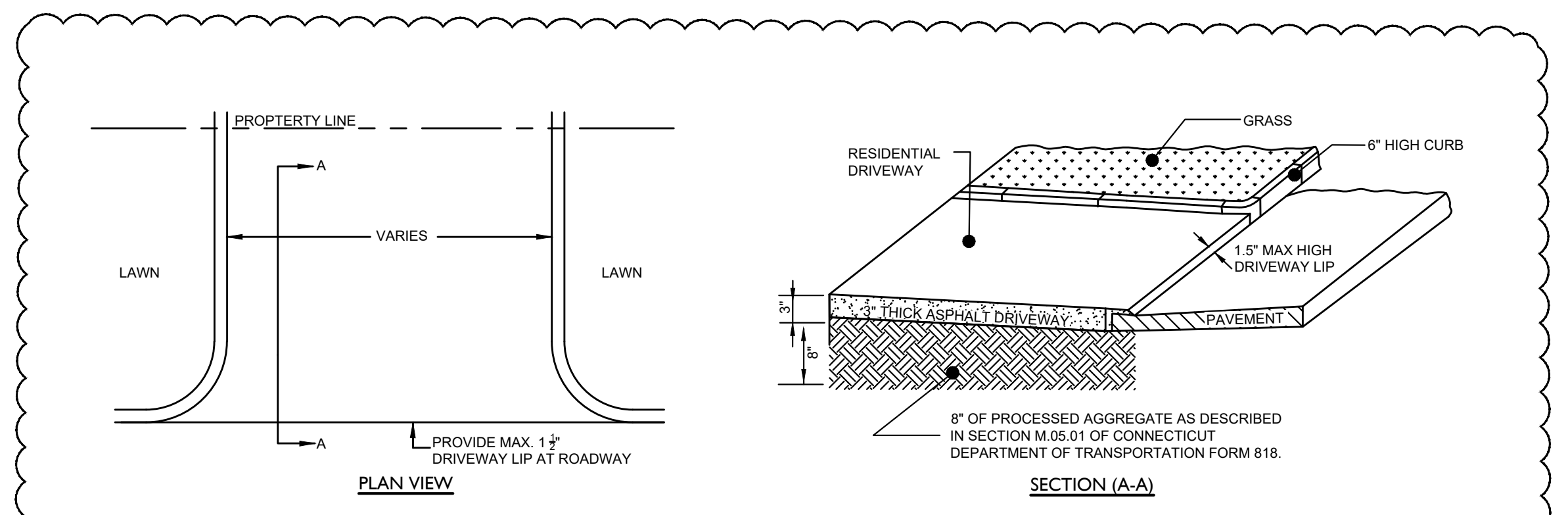
**CATCH BASIN DETAIL**  
N.T.S.



**CAST IRON CATCH BASIN (CURB INLET)**  
N.T.S.

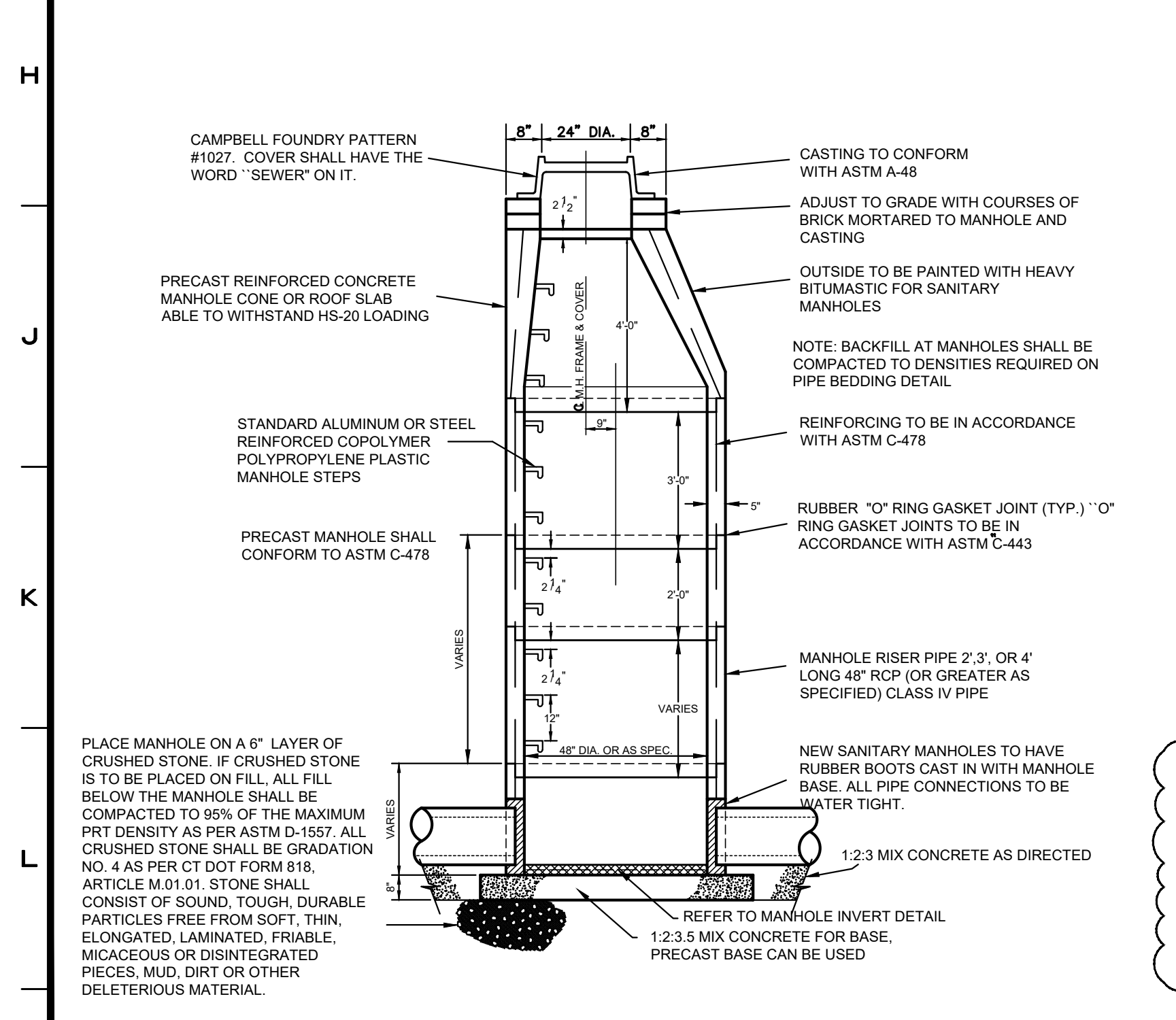


**METER MANHOLE DETAIL (MMH#1)**  
N.T.S.

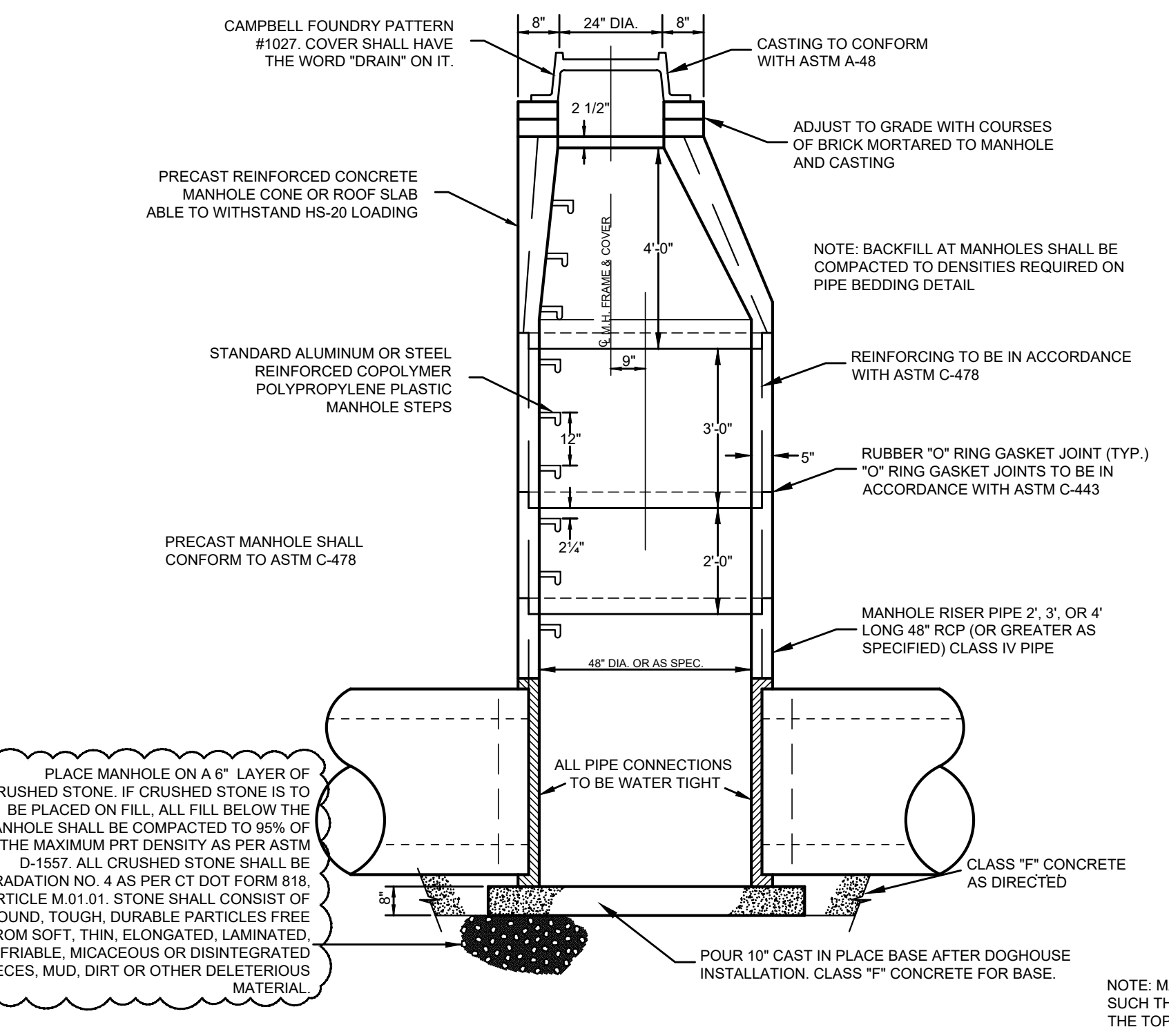


- NOTES:**
- ALL IMPORTED FILL SHALL BE AS REQUIRED BY THE SITE OR GEOTECHNICAL ENGINEER.
  - CONTROLLED FILL SHALL BE PLACED IN UNIFORM 12-INCH-THICK LOOSE LIFTS AND COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY UNIT WEIGHT AS SPECIFIED BY ASTM D1557-83. IN RESTRICTED AREAS WHERE ONLY HAND-OPERATED COMPACTORS CAN BE USED, THE MAXIMUM LIFT THICKNESS SHOULD BE LIMITED TO 8-INCHES.
  - SITE CIVIL ENGINEER SHALL TAKE SAMPLES TO OBTAIN SIEVE ANALYSIS AND CONFIRM MATERIAL MEETS SPECIFICATION. CONTRACTOR SHALL ALLOW 5 DAYS FOR MATERIAL TESTING. ANY CORRECTIVE MEASURES SHALL BE DONE AT NO COST TO THE OWNER.
  - A REPUTABLE TESTING LAB SHALL PERFORM COMPACTION TESTING AS REQUIRED BY THE SITE ENGINEER PRIOR TO THE PLACEMENT OF PAVEMENT. COMPACTION TESTING SHALL OCCUR AT THE SUBBASE, BASE AND EACH LAYER OF PAVEMENT.
  - ALL THICKNESSES SHOWN ARE AFTER COMPACTION.
  - EXISTING SUB-BASE MUST BE PROOF-ROLLED WITH HEAVY VIBRATORY ROLLER UNDER THE OBSERVATION OF A SITE OR GEOTECHNICAL ENGINEER. ANY EXISTING FILL THAT PUMPS OR HEAVES UNDER THE INFLUENCE OF THE ROLLER MUST BE REMOVED AND REPLACED WITH CONTROLLED FILL.
  - SPECIAL ATTENTION OF THE CONTRACTOR IS CALLED TO FOR THE REMOVAL OF UNSUITABLE MATERIAL. REPLACEMENT FILL MATERIAL AND COMPACTION SHALL FOLLOW GEOTECHNICAL ENGINEERING REQUIREMENTS. THESE REQUIREMENTS WILL BE STRICTLY ENFORCED.

**TYPICAL DRIVEWAY APRON AT ROADWAY**  
N.T.S.



**SANITARY MANHOLE DETAIL**  
N.T.S.



**DOG HOUSE STORM/SANITARY MANHOLE DETAIL**  
N.T.S.

2	01/05/2023	REVISED PER CITY OF STAMFORD COMMENTS
1	10/28/2022	ISSUED FOR PERMIT
No.	Date	Revision

**DETAILS**  
DEPICTING  
**131 & 139 TURN OF RIVER ROAD**  
**AND 29 INTERVALE ROAD**  
STAMFORD, CT  
PREPARED FOR  
**THI, LLC & HB CAPITAL LLC.**

SCALE:  
DRAWN BY: JWB  
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www.rednissandmead.com

SHEET No: **SE-8**  
Comm. No.: 9734

Subsurface Soil Investigation Soil Profile. Test Pit #: 1. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 20". Depth: 94". Soil Description: 0'-9" Topsoil & Brown Loam, 9"-30" Orange Brown Sandy Loam (Moderate Compaction), 30"-94" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 10. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 8". Depth: 103". Soil Description: 0'-8" Topsoil & Brown Loam, 8"-26" Orange Brown Sandy Loam (Moderate Compaction), 26"-103" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 18. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 27". Depth: 103". Soil Description: 0'-13" Topsoil & Brown Loam, 13"-23" Orange Brown Sandy Loam (Moderate Compaction), 23"-103" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 2. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 60". Depth: 100". Soil Description: 0'-3" Topsoil & Leaf Litter, 3"-60" Orange Brown Sandy Loam w/ Large Boulders (Moderate Compaction), 60"-100" Grey Coarse Sand/Gravel w/ Large Boulders (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 11. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: 24". Water at: -. Roots at: 18". Depth: 90". Soil Description: 0'-10" Topsoil & Brown Loam, 10"-30" Orange Brown Sandy Loam (Moderate Compaction), 30"-90" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 19. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 31". Depth: 99". Soil Description: 0'-9" Topsoil & Brown Loam, 9"-31" Orange Brown Sandy Loam (Moderate Compaction), 31"-99" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 3. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 36". Depth: 104". Soil Description: 0'-7" Asphalt Millings, Road Base (Moderate Compaction), 7"-36" Orange Brown Sandy Loam (Moderate Compaction), 36"-104" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 12. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: 70". Mottling at: -. Water at: -. Roots at: 9". Depth: 70". Soil Description: 0'-9" Topsoil & Brown Loam, 9"-36" Orange Brown Sandy Loam (Moderate Compaction), 36"-70" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 13. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 28". Depth: 103". Soil Description: 0'-8" Topsoil & Brown Loam, 8"-28" Orange Brown Sandy Loam (Moderate Compaction), 28"-103" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 4. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: 70". Mottling at: -. Water at: -. Roots at: 24". Depth: 70". Soil Description: 0'-1" Topsoil/Mulch, 1"-24" Orange Brown Sandy Loam (Moderate Compaction), 24"-70" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 14. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: 52". Mottling at: -. Water at: -. Roots at: 34". Depth: 52". Soil Description: 0'-10" Topsoil & Brown Loam, 10"-36" Orange Brown Sandy Loam (Moderate Compaction), 36"-52" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 15. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 20". Depth: 96". Soil Description: 0'-8" Topsoil & Brown Loam, 8"-22" Orange Brown Sandy Loam (Moderate Compaction), 22"-96" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 5. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: 90". Mottling at: -. Water at: -. Roots at: 24". Depth: 90". Soil Description: 0'-6" Topsoil & Brown Loam, 6"-24" Orange Brown Sandy Loam (Moderate Compaction), 24"-90" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 16. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 23". Depth: 106". Soil Description: 0'-6" Topsoil & Brown Loam, 6"-23" Orange Brown Sandy Loam (Moderate Compaction), 23"-106" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 17. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 26". Depth: 96". Soil Description: 0'-8" Topsoil & Brown Loam, 8"-26" Orange Brown Sandy Loam (Moderate Compaction), 26"-96" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 6. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 30". Depth: 110". Soil Description: 0'-7" Topsoil & Brown Loam, 7"-30" Orange Brown Sandy Loam (Moderate Compaction), 30"-110" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction)\*.

Subsurface Soil Investigation Soil Profile. Test Pit #: 18. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 23". Depth: 106". Soil Description: 0'-6" Topsoil & Brown Loam, 6"-23" Orange Brown Sandy Loam (Moderate Compaction), 23"-106" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 19. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 21". Depth: 55". Soil Description: 0'-4" Topsoil & Brown Loam, 4"-21" Orange Brown Sandy Loam (Moderate Compaction), 21"-55" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 7. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: 72". Depth: 92". Soil Description: Hole Consists of Organic Matter, possibly fill or brick/processed material. Wet Ground.

Subsurface Soil Investigation Soil Profile. Test Pit #: 10. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 28". Depth: 110". Soil Description: 0'-13" Topsoil & Brown Loam, 13"-28" Orange Brown Sandy Loam (Moderate Compaction), 28"-110" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 11. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 21". Depth: 55". Soil Description: 0'-4" Topsoil & Brown Loam, 4"-21" Orange Brown Sandy Loam (Moderate Compaction), 21"-55" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 8. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: 33". Water at: 90". Roots at: 28". Depth: 110". Soil Description: 0'-13" Topsoil & Brown Loam, 13"-28" Orange Brown Sandy Loam (Moderate Compaction), 28"-110" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 12. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 9". Depth: 70". Soil Description: 0'-9" Topsoil & Brown Loam, 9"-36" Orange Brown Sandy Loam (Moderate Compaction), 36"-70" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 13. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 28". Depth: 103". Soil Description: 0'-8" Topsoil & Brown Loam, 8"-28" Orange Brown Sandy Loam (Moderate Compaction), 28"-103" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 9. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: 55". Mottling at: -. Water at: -. Roots at: 21". Depth: 55". Soil Description: 0'-4" Topsoil & Brown Loam, 4"-21" Orange Brown Sandy Loam (Moderate Compaction), 21"-55" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 14. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 34". Depth: 52". Soil Description: 0'-10" Topsoil & Brown Loam, 10"-36" Orange Brown Sandy Loam (Moderate Compaction), 36"-52" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 15. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 20". Depth: 96". Soil Description: 0'-8" Topsoil & Brown Loam, 8"-22" Orange Brown Sandy Loam (Moderate Compaction), 22"-96" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 16. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 23". Depth: 106". Soil Description: 0'-6" Topsoil & Brown Loam, 6"-23" Orange Brown Sandy Loam (Moderate Compaction), 23"-106" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

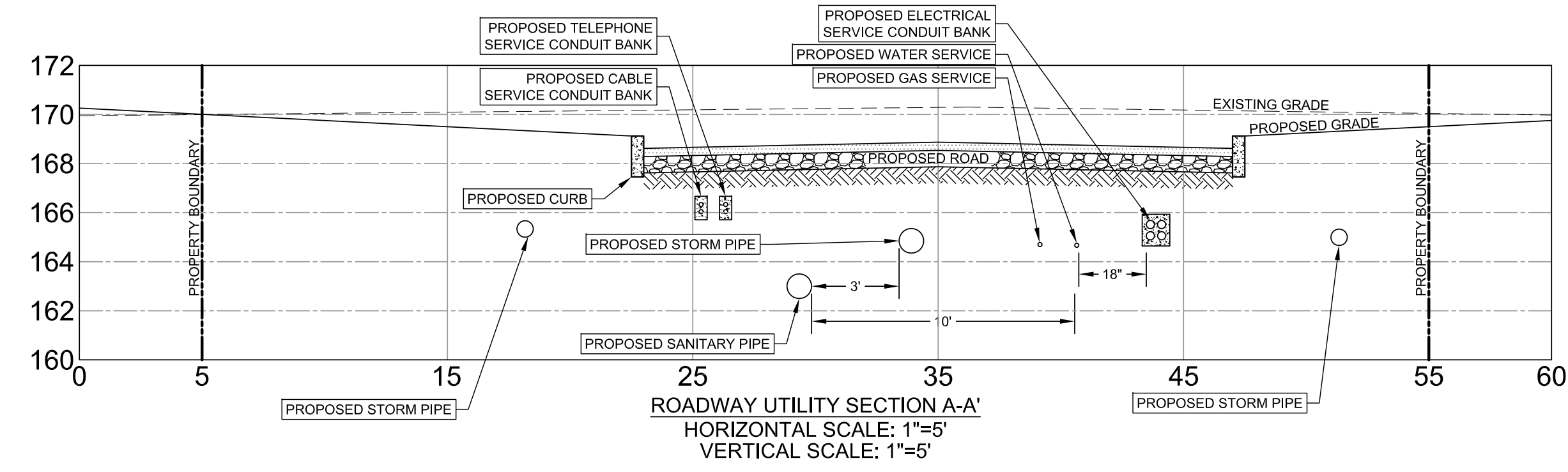
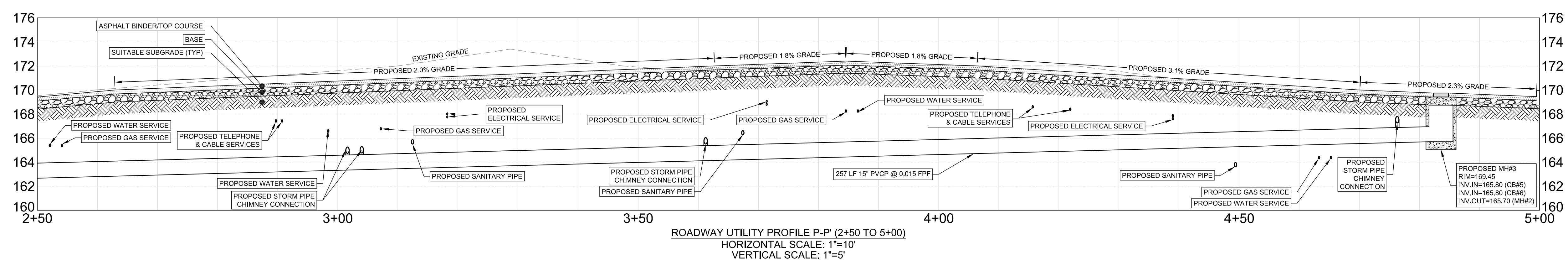
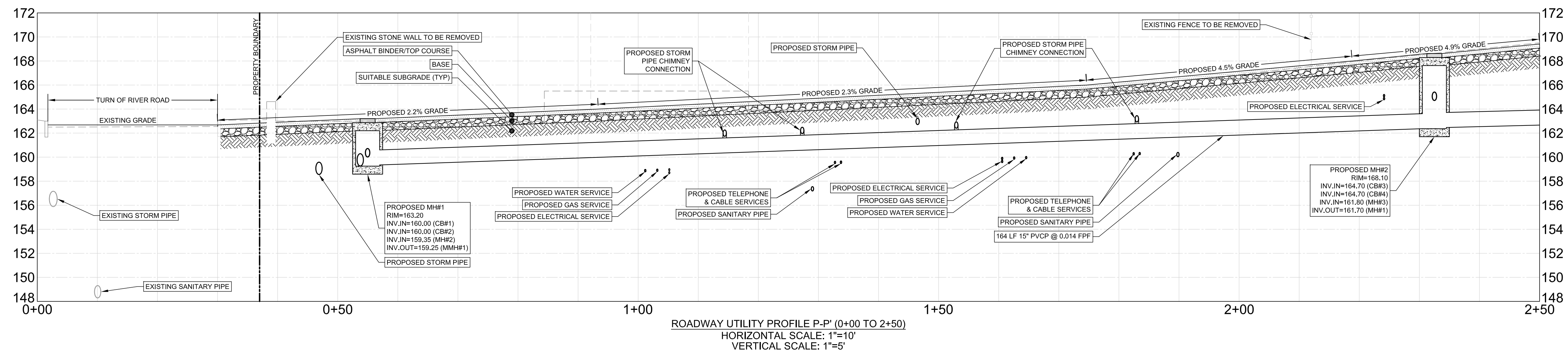
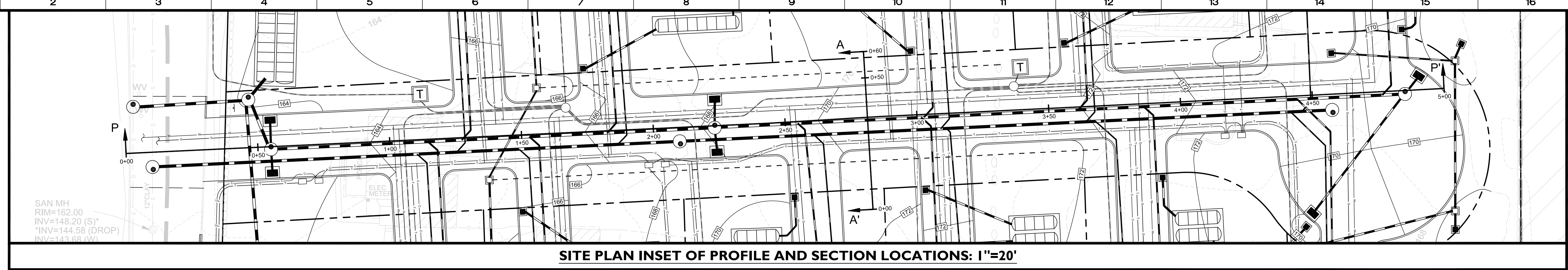
Subsurface Soil Investigation Soil Profile. Test Pit #: 17. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 26". Depth: 96". Soil Description: 0'-8" Topsoil & Brown Loam, 8"-26" Orange Brown Sandy Loam (Moderate Compaction), 26"-96" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Subsurface Soil Investigation Soil Profile. Test Pit #: 18. Date: 08/04/2022. Inspector: TM. Sanitarian: -. Ledge at: -. Mottling at: -. Water at: -. Roots at: 27". Depth: 103". Soil Description: 0'-13" Topsoil & Brown Loam, 13"-23" Orange Brown Sandy Loam (Moderate Compaction), 23"-103" Grey Coarse Sand/Gravel w/ Stone (Moderate Compaction).

Turf-Tec Infiltrometer Results. Project: 131 & 139 Turn of River Road & 29 Intervale Road. Project #: 9734. Date: 12/27/2022. Location: Stamford, CT. By: AS. Checked: TM. Lot 6 - Infiltration System #9. SHCT#1 Turf-Tec Infiltration Rates. Start Time: 11:00 AM. Reading #1: 1 6/16 in. Reading #2: 1 3/16 in. Reading #3: 1 3/16 in. Avg. Reading: 1 4/16 in. Infiltration Rate: 5 in/hr. Applicable rate: 2 8/16 in/hr. \*Readings taken every 15 minutes per Appendix C of the City of Stamford Stormwater Manual.

STORM SEWER STRUCTURE INFORMATION. Table with columns: UP-STREAM, STORM SEWER PIPE INFORMATION, DOWN-STREAM, STRUCT., RIM GRATE, INV. IN, INV. OUT. Lists various pipe types and elevations for structures like TO LEVEL SPREADER #1, TO HOUSE INFILTRATION SYSTEMS, TO ROAD INFILTRATION SYSTEMS, and various manholes (MH#1-MH#14).

2 01/05/2023 REVISED PER CITY OF STAMFORD COMMENTS. 1 10/28/2022 ISSUED FOR PERMIT. No. Date Revision. SOIL DATA DEPICTING 131 & 139 TURN OF RIVER ROAD AND 29 INTERVALE ROAD STAMFORD, CT PREPARED FOR THI, LLC & HB CAPITAL LLC. REDNISS & MEAD. LAND SURVEYING CIVIL ENGINEERING PLANNING & ZONING CONSULTING PERMITTING. 22 First Street | Stamford, CT 06905 | Tel: 203.327.0500 | Fax: 203.357.1118 www.rednissmead.com. SHEET No: SE-9. Comm. No.: 9734.



- NOTES:**
1. PROFILE LINE DEPICTED IN CENTER OF ROADWAY.
  2. STORM PIPE FROM MH#1 TO MH#3 SHOWN FOR REFERENCE TO DEMONSTRATE PIPE WITHIN ROADWAY CLOSE TO PROFILE P-P'.
  3. UTILITIES SHOWN ON THESE PLANS ARE "NOT GUARANTEED" TO BE COMPLETE OR CORRECT. EXISTING GAS, TELEPHONE, ELECTRIC AND CABLE ELEVATIONS ARE ASSUMED BASED ON INDUSTRY STANDARDS. PRIOR TO ANY SITE ACTIVITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF CLEARANCES OF PROPOSED UTILITIES FROM EXISTING UTILITIES. THIS VERIFICATION SHALL INCLUDE PHYSICAL OBSERVATION BY MEANS OF TEST PITS OF THE LOCATIONS OF AFFECTED UTILITIES. THE CONTRACTOR SHALL NOTIFY THE SITE ENGINEER IMMEDIATELY OF ANY CONFLICT.
  4. THIS PROFILE IS A SPECIFIC PROFILE THROUGH THE PROPOSED ROAD. IT SHOULD NOT BE CONSTRUED AS AN "AVERAGE" SECTION ACROSS THE ENTIRE ROAD FOR USE IN DETERMINING REQUIRED AMOUNTS OF CUT, FILL, OR SELECT MATERIALS. IT IS THE RESPONSIBILITY OF THE INSTALLER TO DETERMINE THE REQUIRED AMOUNTS OF FILL, CRUSHED STONE, ASPHALT, ETC..

No.	Date	Revision
1	01/05/2023	PER CITY OF STAMFORD COMMENTS

**ROAD PROFILE**  
DEPICTING  
**131 & 139 TURN OF RIVER ROAD  
AND 29 INTERVALE ROAD**  
STAMFORD, CT  
PREPARED FOR  
**THI, LLC & HB CAPITAL LLC.**

SCALE:  
DRAWN BY: JWB      CHECKED BY: TM

**REDNISS & MEAD**  
LAND SURVEYING  
CIVIL ENGINEERING  
PLANNING & ZONING CONSULTING  
PERMITTING

1/5/2023 2:09 PM H:\Projects\09000907009734\DWG\924\Main\7 XSECTION.dwg

**PP-1**  
Comm. No.: 9734