

TOWN OF TRUMBULL, CONNECTICUT

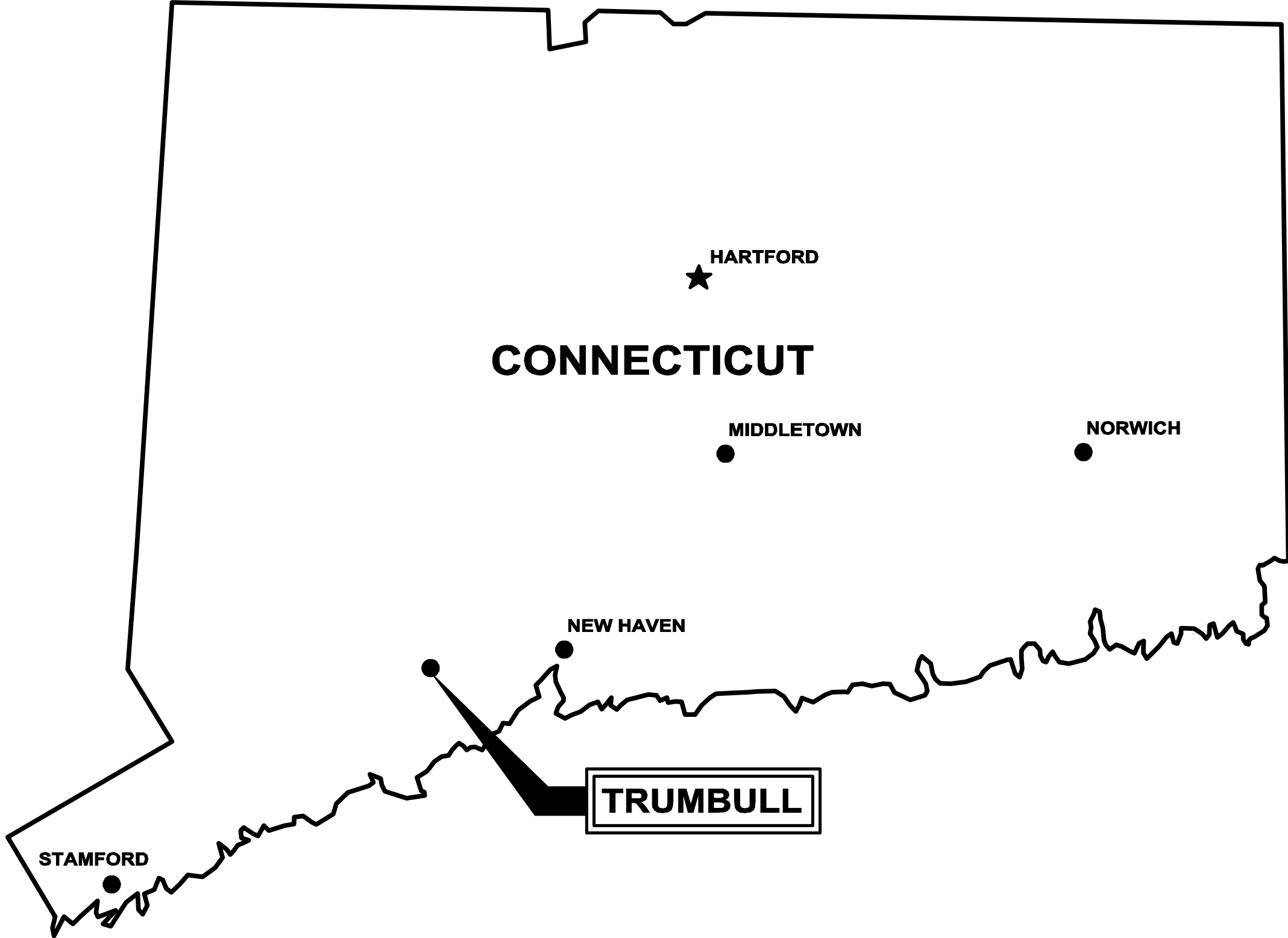
CONTRACT DRAWINGS FOR

SEWER SYSTEM REHABILITATION

PROJECT 2

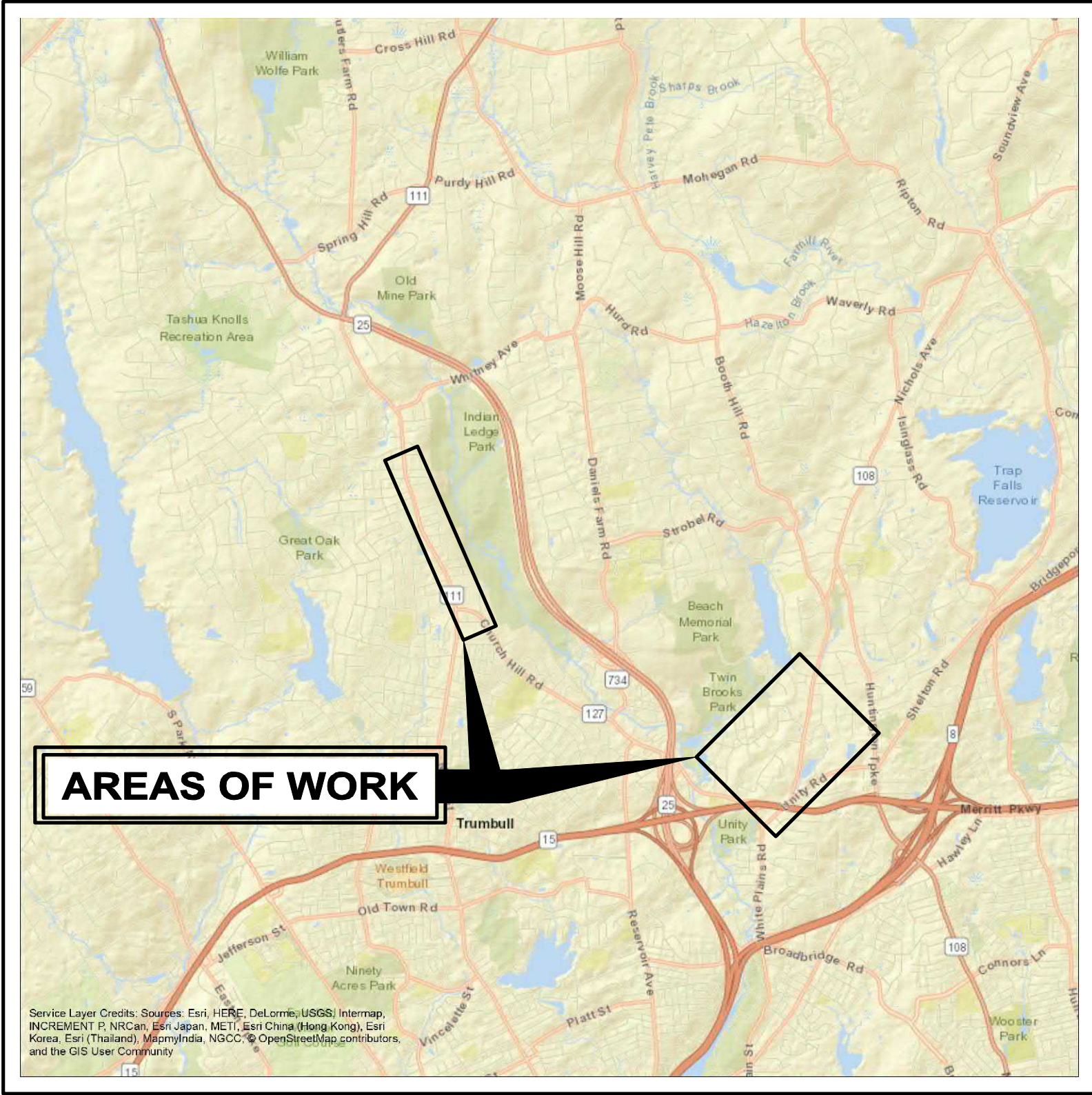
JANUARY 2018

BID SET No. \_\_\_\_\_



**DRAWING INDEX**

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<b>CIVIL</b>	
C-1	GENERAL NOTES, LEGEND, ABBREVIATIONS, AND DETAILS
C-2	PLAN - PIPE REHABILITATION
C-3	PLAN - MANHOLE REHABILITATION



**LOCATION PLAN**

SCALE: 1"=5000'

FOR REVIEW \_\_\_\_\_

FOR BIDDING \_\_\_\_\_

WP PROJECT No. 13905F



SEWER GENERAL NOTES

1. THE CONTRACTOR IS REFERRED TO SECTION 01050 OF THE SPECIFICATIONS REGARDING COORDINATION WITH OTHERS, INCLUDING RESPONSIBILITIES AND RELATED COSTS.
2. BELOW GRADE UTILITY INFORMATION IS NOT SHOWN. LOCATION OF PUBLIC UTILITIES SHOWN IS ONLY APPROXIMATE AND MAY NOT BE COMPLETE. PRIVATE UNDERGROUND UTILITIES SUCH AS, BUT NOT LIMITED TO, SEWER LINES, WATER LINES AND BURIED ELECTRICAL SERVICE ENTRANCES ARE NOT SHOWN. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION AND SIZE OF EXISTING UTILITIES IN THE FIELD WITH THE RESPECTIVE UTILITY COMPANY REPRESENTATIVE PRIOR TO COMMENCING WORK. STATE LAW REQUIRES THE CONTRACTOR TO NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455 PRIOR TO EXCAVATION. REFER TO SPECIFICATION SECTION 01050.
3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL FIELD LOCATIONS OF UTILITIES AND PROTECTING AND SUPPORTING THEM FROM DAMAGE ACCORDING TO UTILITY COMPANY SPECIFICATIONS.
4. ACCESS AND UTILITIES TO EXISTING OCCUPIED BUILDINGS MUST BE MAINTAINED AT ALL TIMES.
5. DURING CONSTRUCTION OF THE PROJECT WORK, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MAINTENANCE OF SANITARY SEWER FLOWS FOR BOTH MAINLINE AND LATERAL FLOWS.
6. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. ANY DEVIATION FROM PLAN INFORMATION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
7. THE CONTRACTOR SHALL CONFINE OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN THE STREET LINES AND WORKING EASEMENT LINES. SHOULD THE CONTRACTOR REQUIRE ADDITIONAL CONSTRUCTION EASEMENTS OR ACCESS RIGHTS, THE CONTRACTOR SHALL OBTAIN THEM AT HIS OWN EXPENSE AND FORWARD COPIES TO THE ENGINEER.
8. THE CONTRACTOR IS REQUIRED TO DO THE WORK OF THE CONTRACT IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS IN A SAFE AND ORDERLY MANNER WITH RESPECT TO PUBLIC SAFETY.
9. ALL EXISTING SEWER AND STORM DRAIN LINES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE. ANY EXISTING SEWERS, STORM DRAIN LINES OR CULVERTS DAMAGED BY THE CONTRACTOR OR HIS SUBCONTRACTORS DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.
10. ALL UTILITY STRUCTURES AND PIPELINES LOCATED ADJACENT TO AN EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE EXCAVATION IS BACKFILLED. INJURY TO ANY SUCH STRUCTURES OR PIPELINES CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OR HIS SUBCONTRACTOR'S OPERATIONS SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE, AND TO THE SATISFACTION OF THE AFFECTED UTILITY COMPANY. ALL UTILITIES REQUIRING REPAIR, RELOCATION OR ADJUSTMENT AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE RESPECTIVE UTILITY.
11. CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL SIGNS IN ACCORDANCE WITH TOWN AND CTDOT REQUIREMENTS.
12. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW AT ALL TIMES. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN TO THE OWNER FOR APPROVAL PRIOR TO COMMENCING CONSTRUCTION. THE TRUMBULL POLICE DEPARTMENT (203-261-3665) AND TRUMBULL FIRE MARSHAL (203-452-5080) ARE TO BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF ANY STREET CLOSING OR DETOUR. REFER TO SPEC. SECTION 01570.
13. CONNECTICUT STATE HIGHWAYS: THE FOLLOWING ROADWAYS FALL WITHIN THE JURISDICTION OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION (CTDOT). ALL WORK CONDUCTED WITHIN THESE ROADWAYS MUST CONFORM TO CTDOT STANDARDS, INCLUDING BUT NOT LIMITED TO, OBTAINING ALL PERMITS, BONDS AND INSURANCES. CONNECTICUT STATE HIGHWAYS WITHIN THE PROJECT AREA ARE AS FOLLOWS:

MAIN ST. (RTE. 111)

WHITE PLAINS RD. (RTE. 127)

DISTRICT 3 TEL. 203.389.3010
14. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR PERFORMANCE OF ALL WORK ON THIS CONTRACT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH PERMIT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. ALL REQUIRED PERMITS SHALL BE OBTAINED PRIOR TO BEGINNING WORK.
15. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHTS OF WAY AND EASEMENTS, WHERE REQUIRED. THE CONTRACTOR SHALL VERIFY THAT THE NECESSARY EASEMENTS HAVE BEEN SECURED BY THE OWNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH EASEMENT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL RIGHTS-OF-WAY AND EASEMENTS ARE AVAILABLE FOR REVIEW FROM THE TOWN.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION. ALL DISTURBED EARTH SURFACES ARE TO BE STABILIZED IN THE SHORTEST PRACTICAL TIME. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE EXCAVATED MATERIAL AT A SITE PROVIDED BY HIM WHICH IS IN COMPLIANCE WITH ALL STATE AND LOCAL LAWS. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL".
17. COMPACTION TESTS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02200 AND 01400. ANY SETTLEMENT OCCURRING WITHIN THE WARRANTY PERIOD WILL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL EXPENSE TO THE OWNER.
18. OPEN EXCAVATIONS MUST BE BACKFILLED AT THE END OF THE WORKDAY. BITUMINOUS CONCRETE PAVEMENT SHALL BE RESTORED BY THE END OF THE WEEK ON TOWN ROADS. ON CTDOT ROADS, EXCAVATIONS SHALL BE PAVED DAILY.
19. CONTRACTOR SHALL CONTROL DUST TO A TOLERABLE LIMIT AS OUTLINED IN SPECIFICATION SECTION 01562. CONTRACTOR SHALL NOT TRACK OR SPILL EARTH AND DEBRIS ON PUBLIC STREETS OUTSIDE THE PROJECT AREA. STREETS OPENED TO THE PUBLIC SHALL BE KEPT SWEEP AND FREE OF DEBRIS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTling ALL EXISTING PROPERTY MONUMENTATION THAT IS DISTURBED BY HIS OPERATIONS AT NO EXPENSE TO THE OWNER. THIS WORK IS TO BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OF CONNECTICUT.
21. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
22. THE CONTRACTOR SHALL NOT HAVE ANY RIGHT OF PROPERTY IN ANY MATERIALS TAKEN FROM ANY EXCAVATION. SUITABLE EXCAVATED MATERIAL MAY BE INCORPORATED IN THE PROJECT, WITH EXCESS MATERIAL DISPOSED OF AT A LOCATION PROVIDED BY THE CONTRACTOR. THESE PROVISIONS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS OBLIGATIONS TO PROPERLY DISPOSE OF AND REPLACE ANY MATERIAL DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE AND EXCESS MATERIAL IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CONTRACT DOCUMENTS.
23. REFER TO SPECIFICATION SECTION 01010, WHICH CONTAINS INFORMATION ON CONSTRAINTS OF CONSTRUCTION SEQUENCING.
24. CONTRACTOR SHALL REMOVE AND REPLACE, OR REPAIR, ALL CURBS, SIDEWALKS, PAVEMENT, GRASSED AREAS AND OTHER STRUCTURES, FEATURES AND SURFACES DAMAGED OR DISTURBED BY HIS CONSTRUCTION ACTIVITIES TO AT LEAST THEIR ORIGINAL CONDITION, TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.
25. ALL EXISTING MANHOLES AND CATCH BASINS THAT ARE AFFECTED BY THE CONTRACTOR'S ACTIVITIES SHALL BE CLEANED AND MADE OPERATIONAL BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.
26. WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES TO THE EXTENT POSSIBLE. COORDINATE FINE GRADING WITH THE ENGINEER.
27. LATERAL LOCATIONS AND QUANTITY ARE APPROXIMATE BASED ON CCTV VIDEOS AND LOG INFORMATION. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL SERVICE LATERAL LOCATIONS AND QUANTITIES DURING THEIR PRE-CCTV EFFORTS.
28. ALL SERVICE LATERALS SHALL BE RE-ESTABLISHED AS SOON AS POSSIBLE FOLLOWING CIPP PER SPECIFICATION SECTION 02756.
29. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A SEWER FLOW CONTROL AND / OR BYPASS PLAN FOR EACH REPAIR PIPE SEGMENTS SET-UP FOR APPROVAL. PRIOR TO THE START OF ANY WORK. SEWER FLOW CONTROL AND / OR BYPASS PLANS FOR EACH SET-UP SHALL BE COMMENSURATE TO THE FLOW QUALITY AND PIPE DIAMETER SIZE. BASED ON VISUAL OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CLEARING ANY RIGHT-OF-WAYS AND EASEMENTS TO LAYOUT BYPASS ROUTING. REFER TO SPECIFICATION SECTION 02751.
30. UNIFORMED POLICE OFFICERS MUST BE GIVEN A MINIMUM 48 HOURS NOTICE PRIOR TO WORK COMMENCING SO AS NOT TO GET CHARGED A "SHORT-TERM NOTIFICATION" RATE. USE OF UNIFORMED POLICE OFFICERS SHALL BE APPROVED BY THE ENGINEER OR OWNER.

ABBREVIATIONS:

(SEE SPEC. SECTION 01070 FOR ADD'L INFORMATION)

& AND

AVE. AVENUE

CL CENTER LINE

CIR. CIRCLE

CT ECO CONNECTICUT ENVIRONMENTAL CONDITIONS ONLINE

CT DEEP CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION

CT DOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

DIA. DIAMETER

DR. DRIVE

LN. LANE

MAX. MAXIMUM

MIN. MINIMUM

NTS NOT TO SCALE

OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

PL. PLACE

RD. ROAD

ROW RIGHT OF WAY

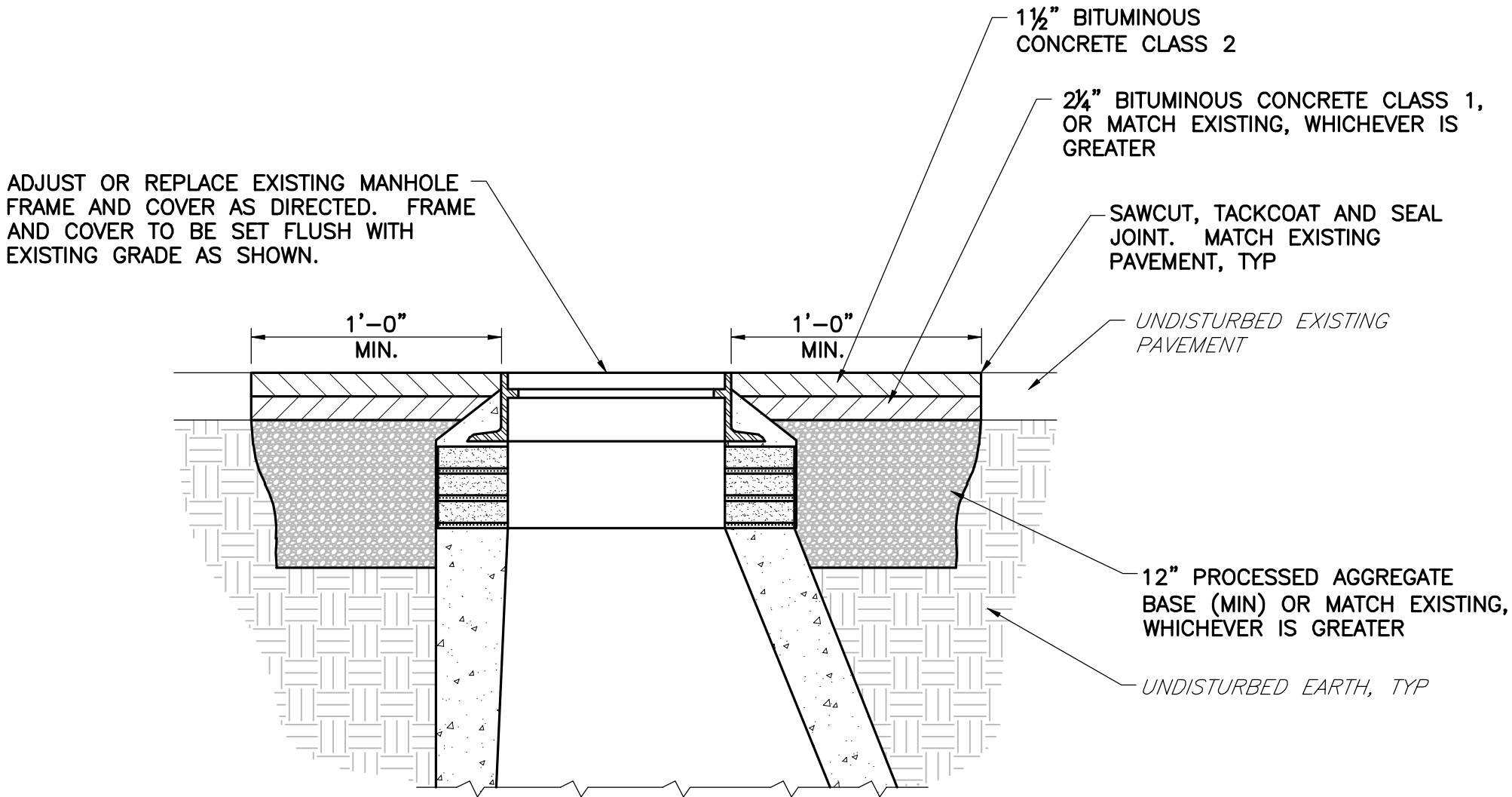
RTE. ROUTE

SPEC. SPECIFICATION

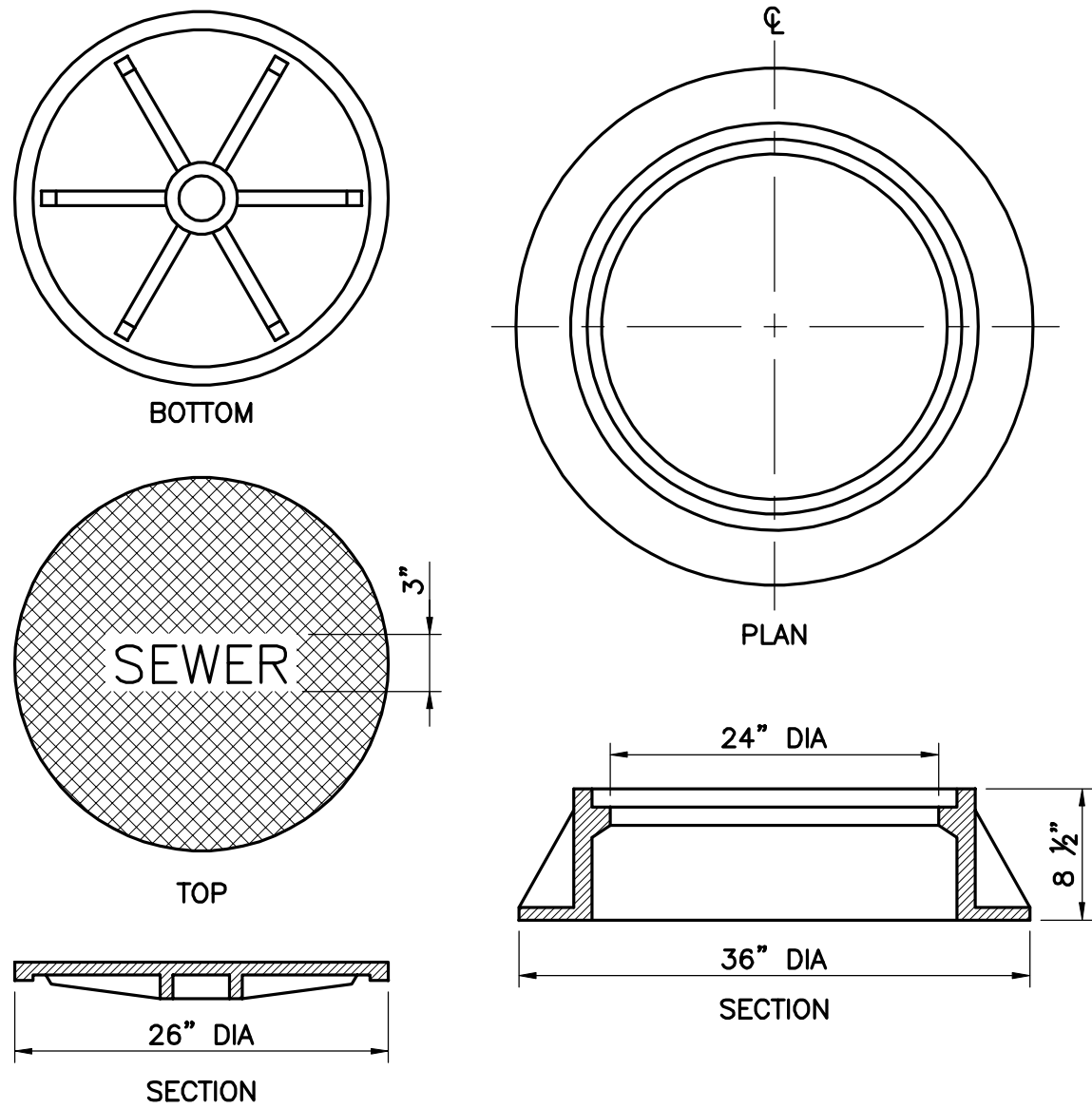
ST. STREET

TEL. TELEPHONE

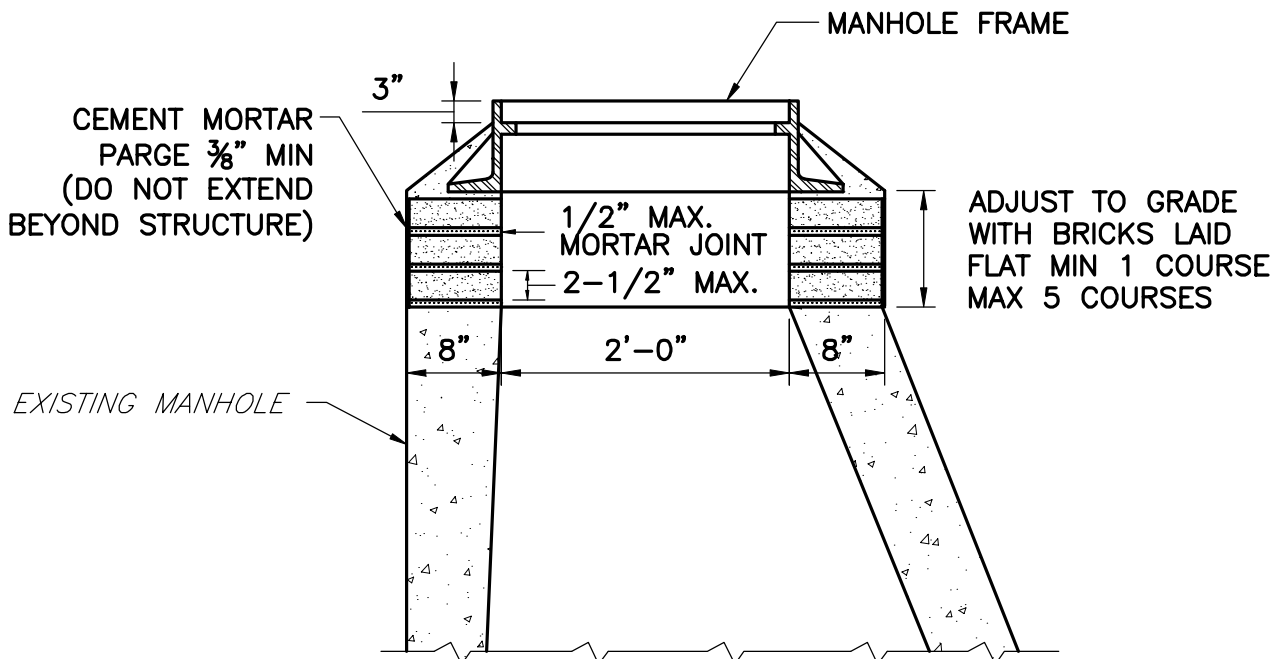
TYP. TYPICAL



PAVEMENT RESTORATION  
SCALE: NTS



NOTE:  
MANHOLE FRAME AND COVER SET SHALL BE CAMPBELL FOUNDRY NO. 1047  
MANHOLE STANDARD COVER AND FRAME  
SCALE: NTS



MANHOLE FRAME INSTALLATION  
SCALE: NTS

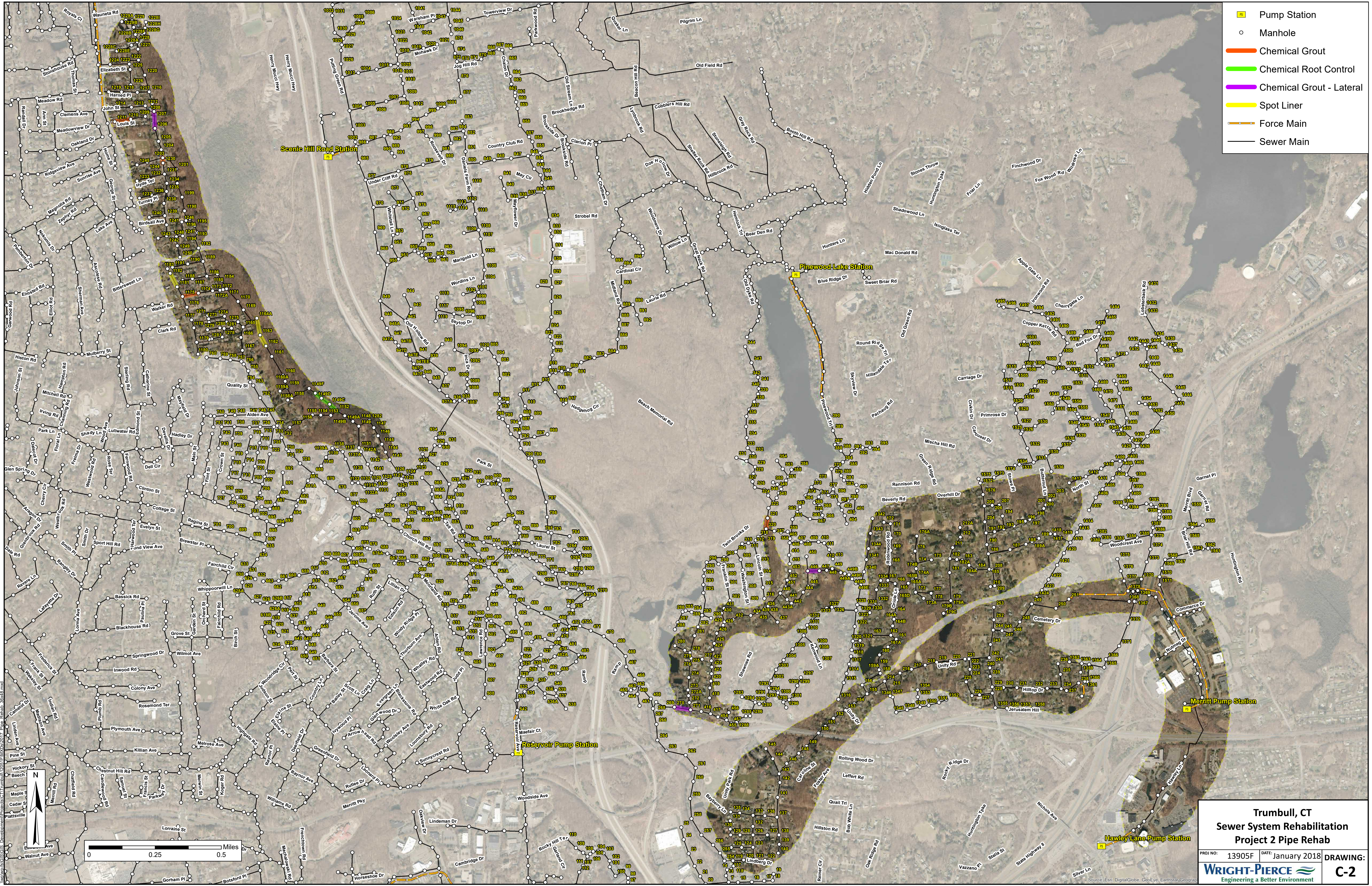
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DATE:			
APPROVED BY:			
DATE:			
PROJECT NO.:	13905F		

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TOWN OF TRUMBULL, CT SEWER SYSTEM REHABILITATION	NOTES, LEGEND AND DETAILS
DRAWING C-1	





- Pump Station
- Manhole
- Chemical Grout
- Chemical Root Control
- Chemical Grout - Lateral
- Spot Liner
- Force Main
- Sewer Main

Trumbull, CT

Sewer System Rehabilitation

Project 2 Pipe Rehab

PROJ NO: 13905F

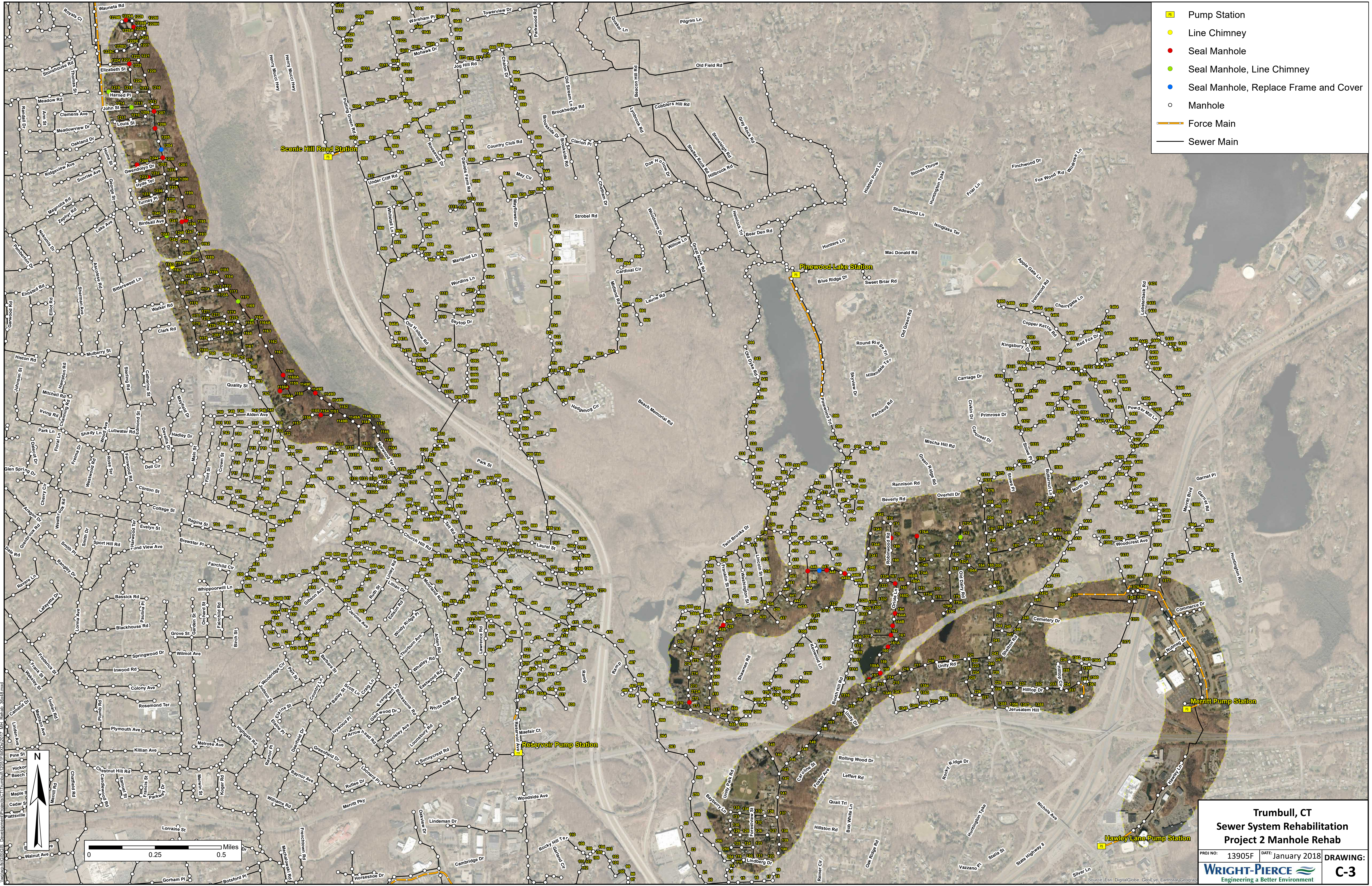
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DRAWING: C-2

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- Pump Station
- Line Chimney
- Seal Manhole
- Seal Manhole, Line Chimney
- Seal Manhole, Replace Frame and Cover
- Manhole
- Force Main
- Sewer Main

Trumbull, CT

Sewer System Rehabilitation

Project 2 Manhole Rehab

PROJ NO: 13905F

DATE: January 2018

DRAWING: C-3

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