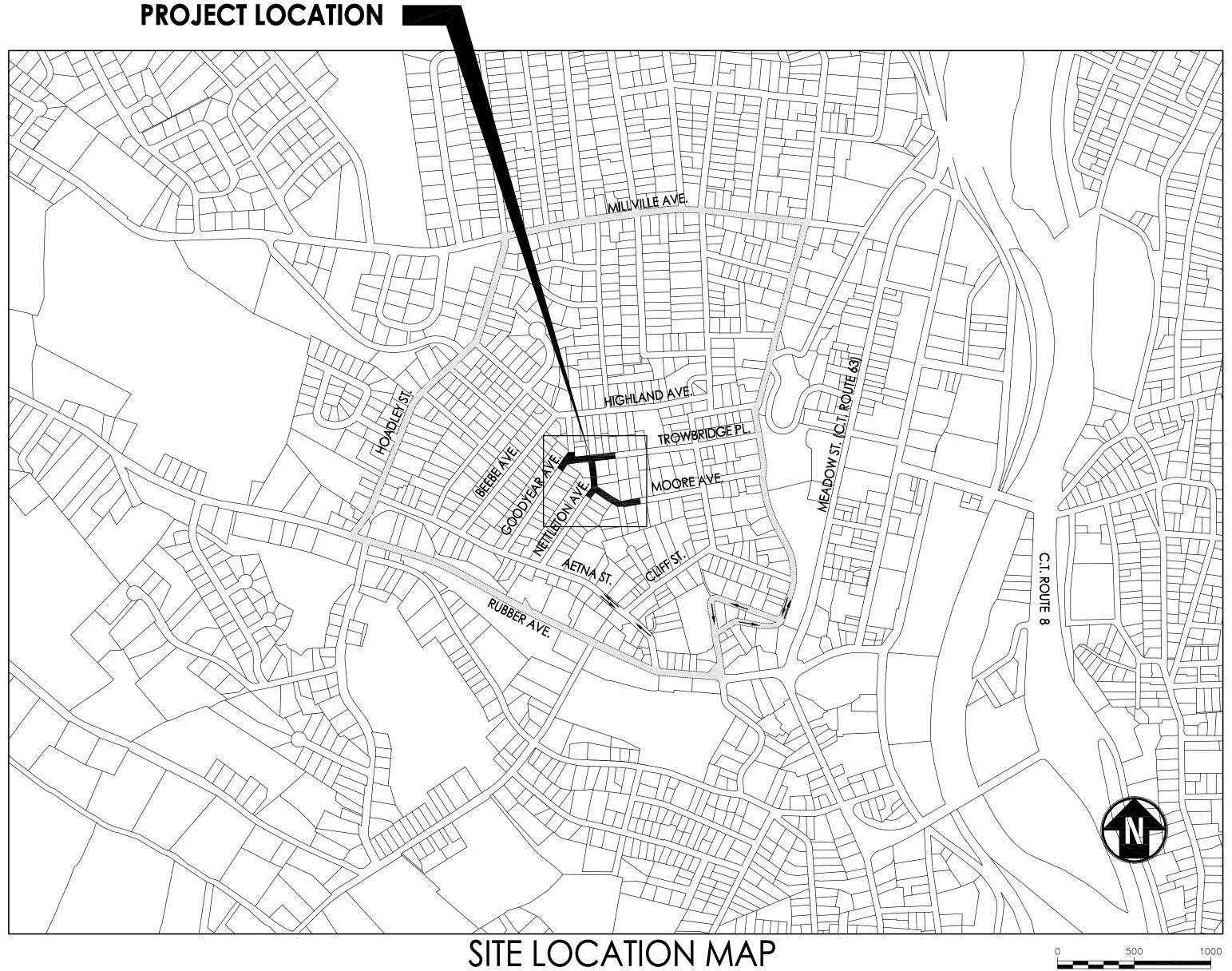
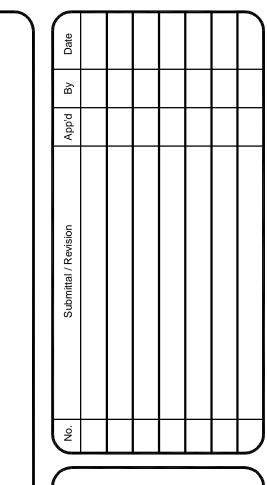
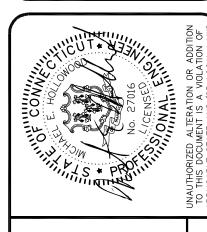
NETTLETON AVE. NEIGHBORHOOD STORM DRAIN IMPROVEMENTS NAUGATUCK, CONNECTICUT

100% CONSTRUCTION DOCUMENTS AUGUST 2011



Sheet List Table	
Sheet Number	Sheet Title
	TITLE SHEET
C-001	GENERAL NOTES
C-002	EXISTING CONDITIONS PLAN
C-003	DEMOLITION PLAN
C-101	LAYOUT PLAN
C-201	DRAINAGE PLAN
C-202	DRAINAGE PLAN
C-401	INTERSECTION GRADING PLAN
C-601	SITE DETAILS
C-602	SITE DETAILS
C-603	SITE DETAILS
C-604	SITE DETAILS
C-605	SITE DETAILS & TYPICAL SECTIONS







TITLE

BASE MAPPING NOTES

1. THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS INC. ON SEPTEMBER 26, 1996. THE BOUNDARY LINES SHOWN ON THIS PLAN WERE COMPILED FROM OTHER MAPS, RECORD RESEARCH OR OTHER SOURCES OF INFORMATION. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD SURVEY, AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE.

TYPE OF SURVEY: TOPOGRAPHIC

BOUNDARY DETERMINATION CATEGORY: PARTIAL

CLASS OF ACCURACY: HORIZONTAL CLASS A-2 VERTICAL CLASS V-2 TOPOGRAPHIC CLASS T-2

2. PROPERTY LINE SHOWN HEREON ARE FROM RECORD DEEDS PLOTS AND TAX MAPS AS OVERLAID ON ANY MONUMENTATION OR OTHER EVIDENCE THAT MAY HAVE BEEN LOCATED DURING THE TOPOGRAPHIC SURVEY. A PROPERTY SURVEY WAS NOT PERFORMED BY CHA INC. AND AS A RESULT THE PROPERTY LINES SHOWN ARE APPROXIMATE AND DO NOT PRESENT A PROPERTY/BOUNDARY OPINION.

3. BASE MAPPING PREPARED BY CHA INC. FROM A DECEMBER 2009 FIELD SURVEY AND COMPILED RECORD PLAN & UTILITY TIE INFORMATION.

4. NORTH ORIENTATION IS BASED ON GPS OBSERVATIONS TAKEN AT THE TIME OF THE FIELD SURVEY.

5. UNDERGROUND UTILITIES, STRUCTURES AND FACILITIES HAVE BEEN SHOWN FROM LIMITED RECORD PLANS. SURFACE LOCATIONS AND MEASUREMENTS OBTAINED FROM THI FIELD SURVEY. THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER UTILITIES WHICH THE EXISTENCE OF ARE NOT KNOWN. SIZE. TYPE AND LOCATION OF ALL UTILITIES AND STRUCTURES MUST BE VERIFIED BY PROPER AUTHORITIES PRIOR TO ANY AND ALL CONSTRUCTION. CALL DIG SAFE PRIOR TO ANY

6. SUBJECT TO ANY STATEMENT OF FACTS THAT AN UP-TO-DATE ABSTRACT OF TITLE WOULD DISCLOSE.

7. SUBJECT TO ALL RIGHTS, EASEMENTS, COVENANTS OR RESTRICTIONS OF RECORD.

8. LATITUDE/LONGITUDE ARE REFERENCED TO NAD83 CONNECTICUT ZONE. COORDINATES SHOWN, IF ANY, ARE EXPRESSED IN U.S. SURVEY FEET. ELEVATIONS ARE REFERENCED TO NAVD 1988. TOP OF STRUCTURE HEIGHT AS SHOWN, IF ANY, DETERMINED BY VERTICAL ANGLE OR BY ACTUAL LOCATION.

9. DUE TO SNOW COVERED CONDITIONS AT THE TIME OF THE FIELD SURVEY, CERTAIN PLANIMETRIC AND TOPOGRAPHIC FEATURES MAY EXIST AND MAY NOT BE SHOWN.

SITE REMOVAL NOTES

- 1. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER. AT THE CONTRACTOR'S EXPENSE.
- 2. ONLY CLEAN SOIL AND AGGREGATE MATERIAL, THAT HAS BEEN APPROVED BY THE ENGINEER, SHALL BE REUSED AS PART OF THIS CONSTRUCTION.
- 3. THE CONTRACTOR SHALL EXERCISE CARE DURING REMOVAL OPERATIONS. ANY ITEMS INDICATED TO REMAIN THAT ARE DAMAGED DURING REMOVAL OPERATIONS SHALL BE REPAIRED OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- 4. DEMOLITION PLAN SHOWS GENERAL REMOVALS. ADDITIONAL ITEMS MAY NEED TO BE REMOVED TO COMPLETE THE PROJECT. ASPHALT AND CONCRETE REMOVALS NOT
- 5. REMOVE SHALL MEAN REMOVE AND DISPOSE UNLESS NOTED OTHERWISE.
- 6. THE CONTRACTOR SHALL RECORD LOCATION, DIMENSIONS & LAYOUT OF ALL PAVEMENT MARKINGS PRIOR TO ANY REMOVALS.

SITE LAYOUT NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE CONTRACTOR SHALL MAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE AS-BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES, AND INVERTS. AS-BUILT PLANS SHOWING ALL UNDERGROUND UTILITIES INSTALLED OR ENCOUNTERED SHALL BE REVIEWED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE ANY CORRECTIONS OR ADDITIONS TO THE SATISFACTION OF THE OWNER AND HIS REPRESENTATIVES BEFORE UTILITIES WILL BE ACCEPTED.
- 2. THE CONTRACTOR SHALL PROVIDE SMOOTH TRANSITIONS BETWEEN NEW WORK AND EXISTING CONDITIONS.
- 3. ALL DIMENSIONS SHALL MATCH EX. CONDITIONS U.N.O.
- 4. PRIVATE PROPERTY ACCESS WALK REPLACEMENT NOT DEPICTED. THE CONTRACTOR SHALL REPLACE IN KIND ALL ACCESS PATHS DISTURBED. END OF REPLACEMENT SHALL BE AT CLEAN SAWCUT LINE.
- 5. LANDSCAPE AREAS SHALL BE RESTORED WITH A MINIMUM OF 6 INCHES OF TOPSOIL AND HYDROSEEDED.
- 6. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS TO MATCH EXISTING CONDITIONS.

UTILITY NOTES

- 1. UNDERGROUND UTILITIES, STRUCTURES AND FACILITIES HAVE BEEN SHOWN FROM LIMITED RECORD PLANS, SURFACE LOCATIONS AND MEASUREMENTS OBTAINED FROM THE FIELD SURVEY, THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER UTILITIES WHICH THE EXISTENCE OF ARE NOT KNOWN. SIZE, TYPE AND LOCATION OF ALL UTILITIES AND STRUCTURES MUST BE VERIFIED BY PROPER AUTHORITIES PRIOR TO ANY AND ALL CONSTRUCTION. CALL DIG SAFE PRIOR TO ANY EXCAVATION.
- 2. THE LOCATION OF SOME UTILITY SERVICE LATERALS ARE UNKNOWN. CONTRACTOR SHALL LOCATE ALL SERVICE LATERALS WITHIN PROJECT LIMITS AND RECONNECT THEM TO NEW MAINS. CONTRACTOR SHALL ALSO RELOCATE ANY EXISTING LATERALS THAT ARE IN CONFLICT WITH PROPOSED CONSTRUCTION.
- 3. EXISTING WATER & NATURAL GAS MAIN DEPTHS ARE ASSUMED.
- 4. EXISTING WATER & SANITARY SEWER SERVICE LATERAL SIZE & MATERIAL SHOWN ON PLAN ARE ASSUMED.
- 5. THE CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING UTILITIES. DAMAGED UTILITIES SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 6. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE ENGINEER AND THE UTILITY OWNER. NOTIFY THE OWNER AND ENGINEER AT LEAST 72 HOURS PRIOR TO EACH AND EVERY CONNECTION THAT IS MADE.
- 7. CONSTRUCTION OF ALL PROPOSED UTILITIES MUST BEGIN AT ITS POINT OF CONNECTION TO THE EXISTING UTILITY, OR AT THE LOWEST POINT IN THE SYSTEM. RIMS, GRATES, INVERTS, CLEARANCES AND LOCATIONS AT CROSSINGS MUST BE VERIFIED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 8. PIPE LENGTHS SHOWN ARE MEASURED FROM THE INSIDE WALL OF MANHOLE TO THE INSIDE WALL OF MANHOLE. INVERTS SHOWN ARE AT INSIDE WALL OF MANHOLE UNLESS NOTED OTHERWISE.
- 9. THE CONTRACTOR SHALL COORDINATE AND VERIFY MANHOLE AND CATCH BASIN RIM ELEVATIONS WITH EXISTING GRADES.
- 10. MINIMUM BURY DEPTH OF WATER SERVICES SHALL BE 5.0' TO TOP OF PIPE.
- 11. THE CONNECTICUT WATER COMPANY WILL OPERATE ALL EXISTING VALVES AND HYDRANTS.
- 12. MINIMUM SEPARATION BETWEEN WATER MAIN AND SEWER MAIN SHALL BE MAINTAINED. 10' HORIZONTAL AND 1.5' VERTICAL. SANITAR) SEWER SHALL BE ENCASED IN CONCRETE AT LOCATIONS WHERE MINIMUM SEPARATION CANNOT BE MAINTAINED.
- 13. MINIMUM BURY DEPTH OF SANITARY SEWER SERVICES SHALL BE 3' TO TOP OF PIPE.

LEGENDS EXISTING

DECIDUOUS TREE OR BUSH

TREE OR BUSH CONTROL POINT CONC. MON. FND.

CONIFEROUS

IRON PIN FND. MAN HOLE

CATCH BASIN **EXISTING** SPOT ELEVATION

EXISTING CONTOUR SIGN - UTILITY POLE

EXISTING STORM SEWER EXISTING SANITARY SEWER EXISTING GAS MAIN

——— EXISTING OVER—HEAD UTILITY LINE

RECORD PLAN UTILITY LATERAL LOCATION/SIZE ASSUMED UTILITY LATERAL LOCATION/SIZE

DRAIN MANHOLE CATCH BASIN SANITARY SEWER WATER MAIN (BY OTHERS) GATE VALVE (BY OTHERS)

VIEW MARKER

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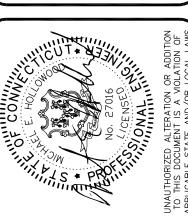
DETAIL IDENTIFICATION SHEET NO. WHERE DETAIL IS SHOWN

DETAIL IDENTIFICATION

SHEET NO. WHERE DETAIL IS CALLED OUT

STORM SEWER LINE

NAU(H STI K, CT BOROUGH OF I 229 CHURCH NAUGATUCK OF IRC



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GENERAL NOTES

1. THE PLANS SHOW SUBSURFACE STRUCTURES, ABOVE-GROUND STRUCTURES AND/OR UTILITIES FROM FIELD LOCATION AND RECORD MAPPING, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL, OR BLAST, CALL "CALL BEFORE YOU DIG" AT 1-800-922-4455 TOLL FREE.

2. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER.

- 3. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
- 4. THE CONTRACTOR SHALL RESTORE LAWNS. DRIVEWAYS. CULVERTS. SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED AS DETERMINED BY THE ENGINEER. ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

5. PRIOR TO COMMENCEMENT OF STORM AND/OR SANITARY SEWER CONSTRUCTION, CONTRACTOR IS TO VERIFY BOTH HORIZONTAL AND VERTICAL POSITION OF EXISTING SEWER AT CONNECTION POINT. CONTRACTOR IS TO CONSTRUCT GRAVITY LINES PROGRESSIVELY FROM DOWNSTREAM TO UPSTREAM, ANY EXCEPTIONS TO THIS MUST BE APPROVED BY THE ENGINEER. ANY GRADE DISCREPANCIES MUST BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY.

- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC., AND SHALL COMPLY WITH ALL REQUIRED PERMITS.
- 7. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS.
- 8. ALL PROPOSED UTILITIES AND APPURTENANCES TO BE CONSTRUCTED IN COMPLIANCE WITH THE LOCAL MUNICIPALITIES' CODES AND REGULATIONS GOVERNING THE INSTALLATION OF SUCH UTILITIES.
- 9. THE ENGINEER RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT, AS INTENDED AND INTERPRETED BY THE ENGINEER.
- 10. MISCELLANEOUS WORK NOT SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS SUCH AS PATCHING, BLOCKING, TRIMMING, ETC., SHALL BE PERFORMED AS REQUIRED TO MAKE THE WORK COMPLETE.
- 11. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A CONNECTICUT STATE LICENSED LAND SURVEYOR.
- 12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND COORDINATE WORK WITH ALL OTHER CONTRACTS FOR THE SITE.
- 13. THE CONTRACTOR SHALL:
- A. VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- B. EXAMINE THE SITE AND INCLUDE IN HIS WORK THE EFFECT OF ALL EXISTING CONDITIONS ON THE WORK.
- C. PROVIDE AND INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH RECOGNIZED GOOD STANDARD PRACTICE. - D. HOLD THE OWNER HARMLESS AGAINST ANY AND ALL CLAIMS ARISING FROM WORK DONE BY THE CONTRACTOR ON THE SITE.
- 14. ALL EXCAVATIONS SHALL BE PLATED OR TEMPORARILY PAVED AT TTHE END OF EACH DAY, UNLESS APPROVED BY THE BOROUGH ENGINEER. HOT MIX SHALL BE USED WHEN AVAILABLE, COLD PATCH SHALL BE CLASS 5A. EMPHASIS MUST BE PLACED THE BACKFILLING AND COMPACTION OF THE ORIGINAL TRENCH TO AVOID ANY FUTURE SETTLEMENT. TEMPORARY REPAIR SHALL INCLUDE PROCESSED GRAVEL TO A DEPTH AS REQUIRED TO OBTAIN 10 INCHES FOLLOWING PERMANENT REPAIR. AFTER COMPACTION OF PROCESS GRAVEL. THE EXCAVATED AREA SHALL BE PAVED WITH 2.5 INCHES OF BITUMINOUS CONCRETE CLASS 1. PLATES WILL NOT BE ALLOWED DURING THE WINTER MONTHS.
- 15. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST CONNECTICUT AND OSHA REGULATIONS FOR CONSTRUCTION. SHEET PILING SHALL BE DESIGNED AND SEALED BY A CONNECTICUT STATE PROFESSIONAL ENGINEER.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK AND SHALL SUBMIT A DEWATERING PLAN DESIGNED AND SEALED BY A CONNECTICUT PROFESSIONAL ENGINEER. CONTRACTOR SHALL MAINTAIN EXISTING SITE DRAINAGE PATTERNS THROUGHOUT CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS.
- 17. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE ENGINEER AND THE UTILITY OWNER. NOTIFY THE ENGINEER AND THE UTILITY OWNER 72 HOURS BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS MADE.
- 18. CONSTRUCTION OF ALL PROPOSED UTILITIES MUST BEGIN AT ITS POINT OF CONNECTION TO THE EXISTING UTILITY OR AT THE LOWEST POINT IN THE SYSTEM. RIMS, GRATES, INVERTS, CLEARANCES, AND LOCATION AT CROSSINGS MUST BE VERIFIED PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 19. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
- 20. ALL FRAMES/COVERS WITHIN PAVED AREAS SHALL HAVE THE TOPS SET FLUSH WITH THE EXISTING PAVEMENT GRADE. IN LANDSCAPED AREAS, ALL FRAMES SHALL BE 0.1' ABOVE GRADE.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED—UP AS—BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES, AND INVERTS. AS-BUILT PLANS SHOWING ALL UNDERGROUND UTILITIES INSTALLED OR ENCOUNTERED SHALL BE REVIEWED BY THE OWNER AND HIS REPRESENTATIVES. THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADMISSIONS TO THE SATISFACTION OF THE OWNER AND HIS REPRESENTATIVES BEFORE UTILITIES WILL BE ACCEPTED.
- 22. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ALL AREAS IN ACCORDANCE WITH THE CONNECTICUT DEPARTMENT OF TRANSPORTATION, THE BOROUGH OF NAUGATUCK & THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 23. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL, RESIDENTIAL, AND PUBLIC PROPERTIES.
- 24. ALL EXCAVATIONS SHALL BE BACKFILLED TO EXISTING GRADE OR PROPERLY PROTECTED AT THE END OF EACH DAY.
- 25. CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING UTILITIES. DAMAGED UTILITIES SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

