

TOWN OF YORKTOWN, NEW YORK

CLEANING AND CEMENT MORTAR LINING OF WATER MAIN ALONG FRONT STREET AND UNDERHILL AVENUE

WATER SUPERINTENDENT
KEN RUNDLE

ASSISTANT SUPERINTENDENT
PAUL VASILLO

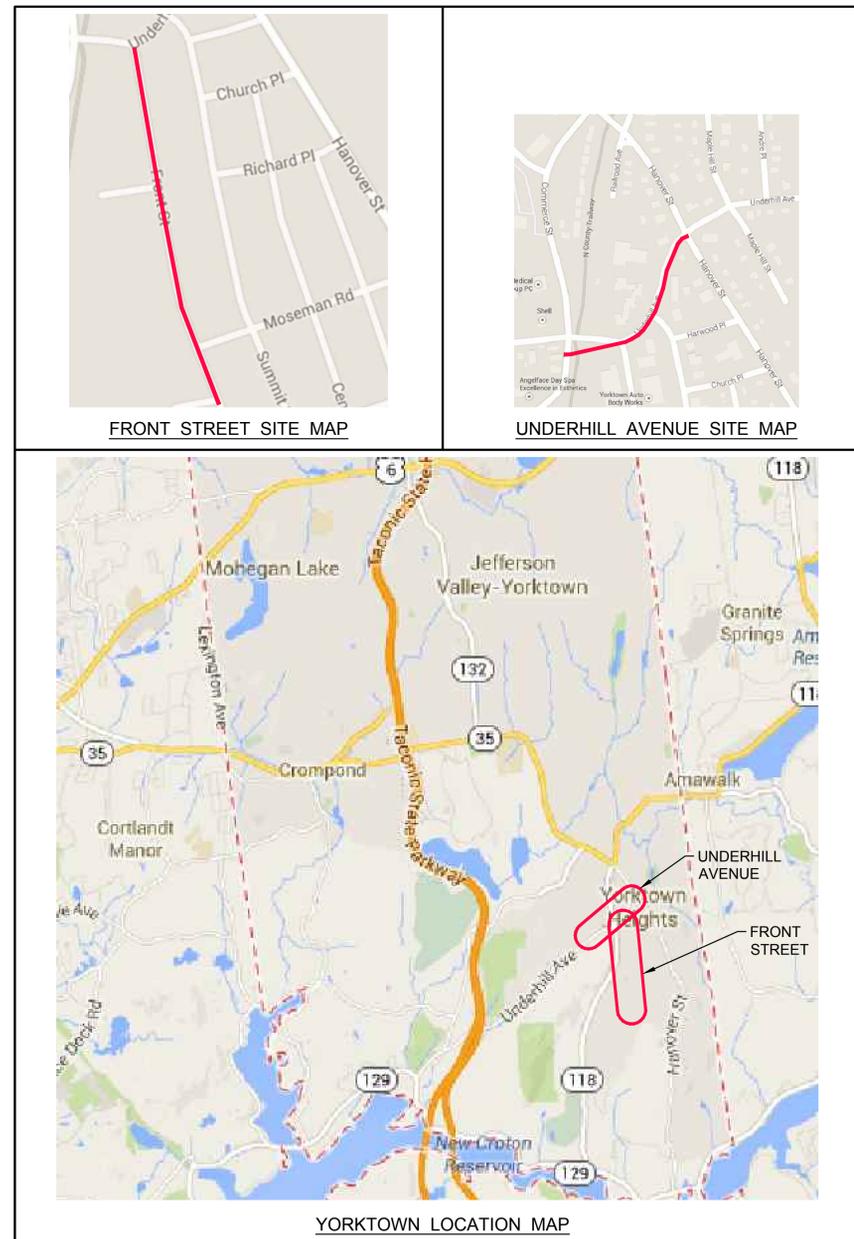
JUNE 2023



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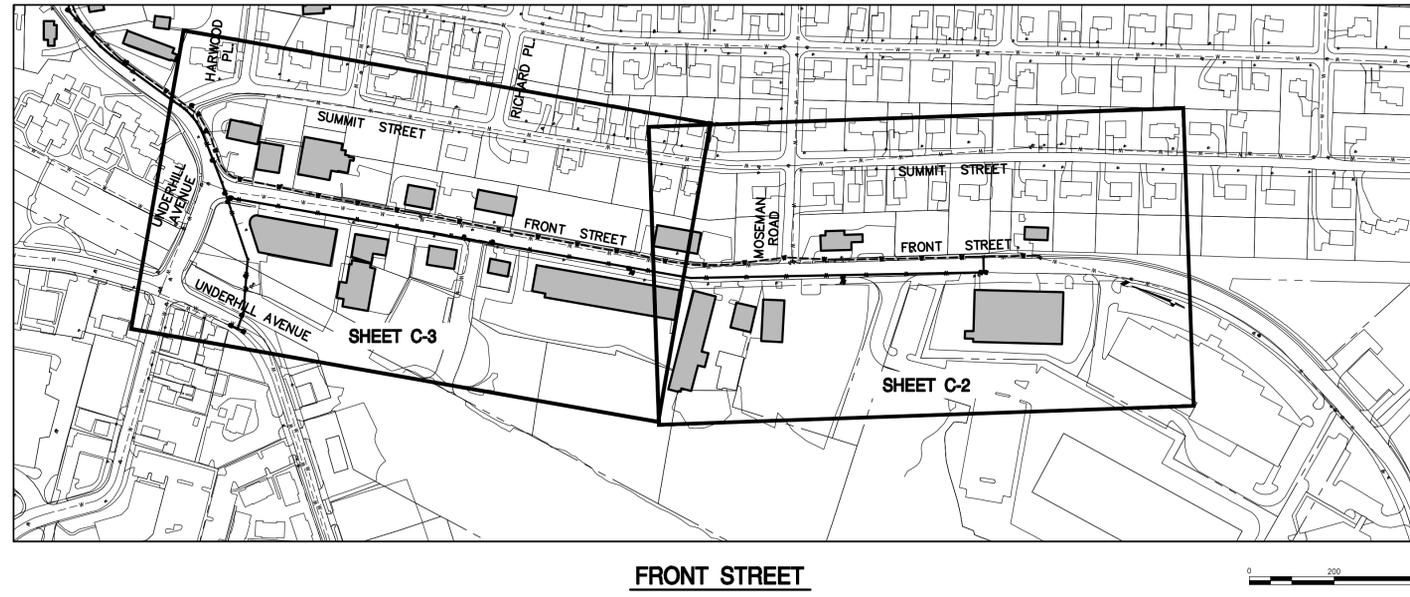
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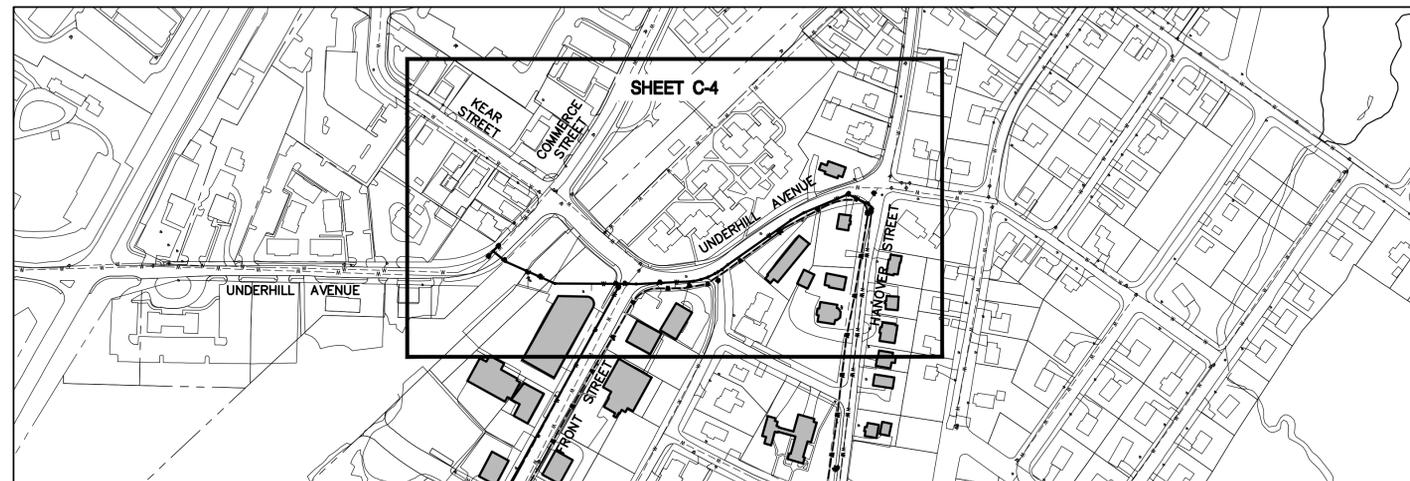
YORKTOWN LOCATION MAP
LOCATION MAPS
N.T.S.

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\\nas01\local\WSE\Projects\NY\Yorktown, NY\ENG21-0417 Cement Lining Construction Services\Bid Phase\2023 Bid Front and Underhill\CAOVPAS\C-1 OVERALL LOCATION MAP.dwg



FRONT STREET



UNDERHILL AVENUE

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No.	Date	Dr. By	Ch. By	App. By	Description
		A	P	R	O
					V
					E
					D

REGISTERED PROFESSIONAL ENGINEER _____ DATE _____



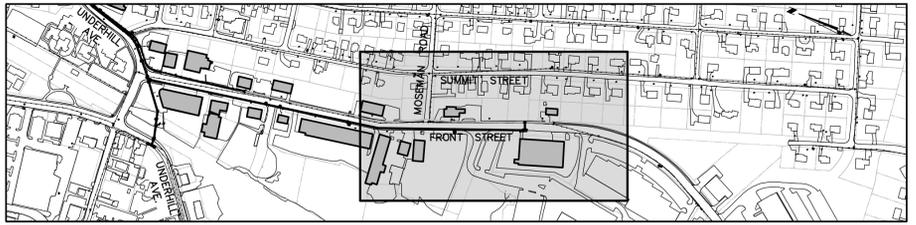
TOWN OF YORKTOWN, NEW YORK
 CLEANING AND CEMENT MORTAR LINING OF WATER MAIN
 ALONG FRONT STREET AND UNDERHILL AVENUE
OVERALL LOCATION MAP
 FRONT STREET AND UNDERHILL AVE.
 SCALE: C-1 AS NOTED
 CADD NO. C-1
 JOB NO. ENG21-0417
 DR. BY JMJ
 DSN. BY JMJ
 CHK. BY CWS
 APP. BY JFB

- NOTES:**
1. NORMAL WATER MAIN OPERATING PRESSURE RANGES FROM 120 PSI TO 135 PSI.
 2. ALL FITTINGS ALONG WATER MAIN TO BE CLEANED AND RELINED SHALL BE REMOVED AND REPLACED UPON COMPLETION OF WORK.
 3. ALL FITTINGS AND VALVES TO BE REMOVED AT MECHANICAL JOINTS WHENEVER POSSIBLE. IF FITTING OR VALVE NEEDS TO BE REMOVED BY CUTTING, SEE APPROPRIATE DETAILS ON SHEET D-1 AND SHEET D-2.
 4. PROPOSED COMBINED FS AND UA PHASE 1: STA. FS 0+00 TO STA. FS 18+07 AND STA. UA 0+00 TO STA. UA 9+64.

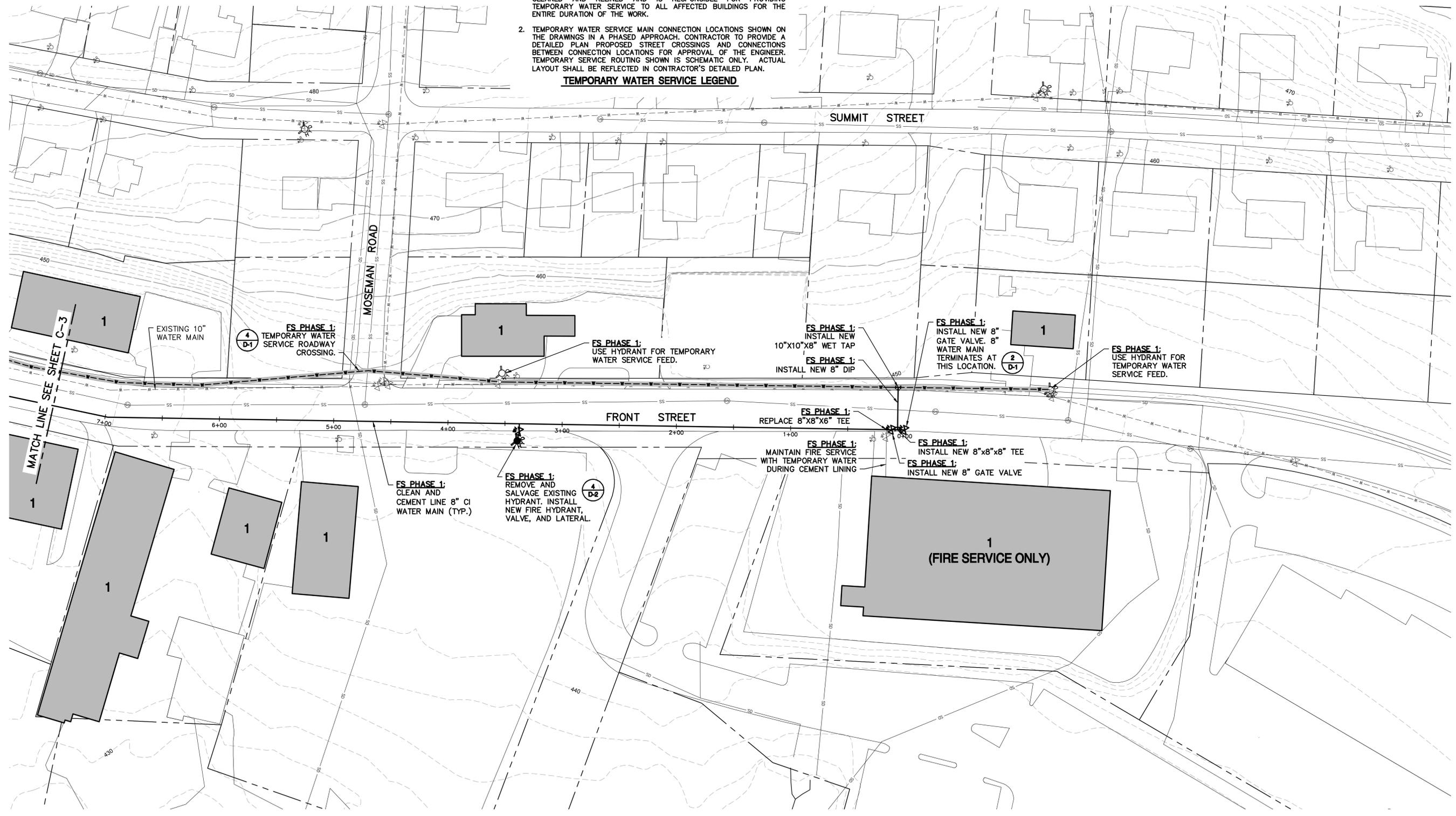
- | | |
|----------|--|
| 1 | STRUCTURE IMPACTED BY PROPOSED PHASE 1 |
| 2 | STRUCTURE IMPACTED BY PROPOSED PHASE 2 |
| 3 | STRUCTURE IMPACTED BY PROPOSED PHASE 3 |
| | PHASE 1 TEMPORARY WATER SERVICE MAIN |
| | PHASE 2 TEMPORARY WATER SERVICE MAIN |
| | PHASE 3 TEMPORARY WATER SERVICE MAIN |

- NOTES:**
1. BASED ON AVAILABLE RECORDS, BUILDINGS SHOWN WITH GRAY HATCH ARE BELIEVED TO BE CONNECTED TO A WATER MAIN THAT IS TO BE CLEANED AND CEMENT LINED. THE CONTRACTOR IS TO VERIFY ALL BUILDINGS THAT ARE CONNECTED TO WATER MAIN THAT IS TO BE CLEANED AND RELINED AND IS RESPONSIBLE FOR PROVIDING TEMPORARY WATER SERVICE TO ALL AFFECTED BUILDINGS FOR THE ENTIRE DURATION OF THE WORK.
 2. TEMPORARY WATER SERVICE MAIN CONNECTION LOCATIONS SHOWN ON THE DRAWINGS IN A PHASED APPROACH. CONTRACTOR TO PROVIDE A DETAILED PLAN PROPOSED STREET CROSSINGS AND CONNECTIONS BETWEEN CONNECTION LOCATIONS FOR APPROVAL OF THE ENGINEER. TEMPORARY SERVICE ROUTING SHOWN IS SCHEMATIC ONLY. ACTUAL LAYOUT SHALL BE REFLECTED IN CONTRACTOR'S DETAILED PLAN.

TEMPORARY WATER SERVICE LEGEND



KEY PLAN - FRONT STREET



1 FRONT STREET - STA. FS 0+00 TO STA. FS 7+46
SCALE: 1" = 40'

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		A	P	R	O
		V	E	D	

REGISTERED PROFESSIONAL ENGINEER DATE



TOWN OF YORKTOWN, NEW YORK

CLEANING AND CEMENT MORTAR LINING OF WATER MAIN ALONG FRONT STREET AND UNDERHILL AVENUE

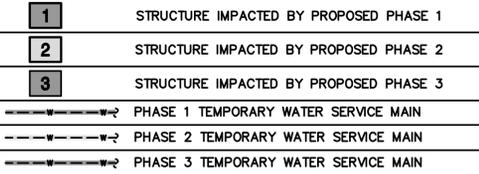
FRONT STREET - STA. FS 0+00 TO STA. FS 7+46

SCALE: 1" = 40'

FILE NO.	CONTRACT	DR. BY	CHK. BY	APP. BY
C-2	ENG21-0417	JMZ	JMZ	CWS

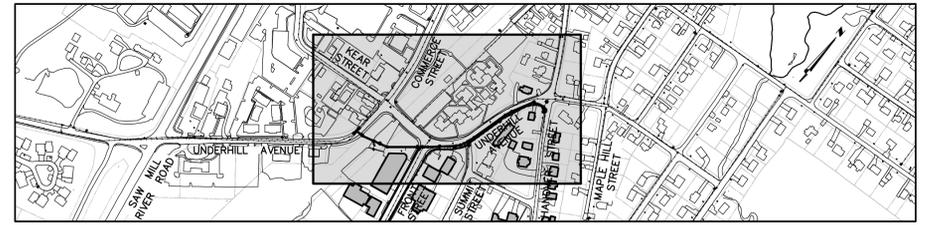
NOTES:

1. NORMAL WATER MAIN OPERATING PRESSURE RANGES FROM 115 PSI TO 135 PSI.
2. ALL FITTINGS ALONG WATER MAIN TO BE CLEANED AND RELINED SHALL BE REMOVED AND REPLACED UPON COMPLETION OF WORK.
3. ALL FITTINGS AND VALVES TO BE REMOVED AT MECHANICAL JOINTS WHENEVER POSSIBLE. IF FITTING OR VALVE NEEDS TO BE REMOVED BY CUTTING, SEE APPROPRIATE DETAILS ON SHEET D-1 AND SHEET D-2.
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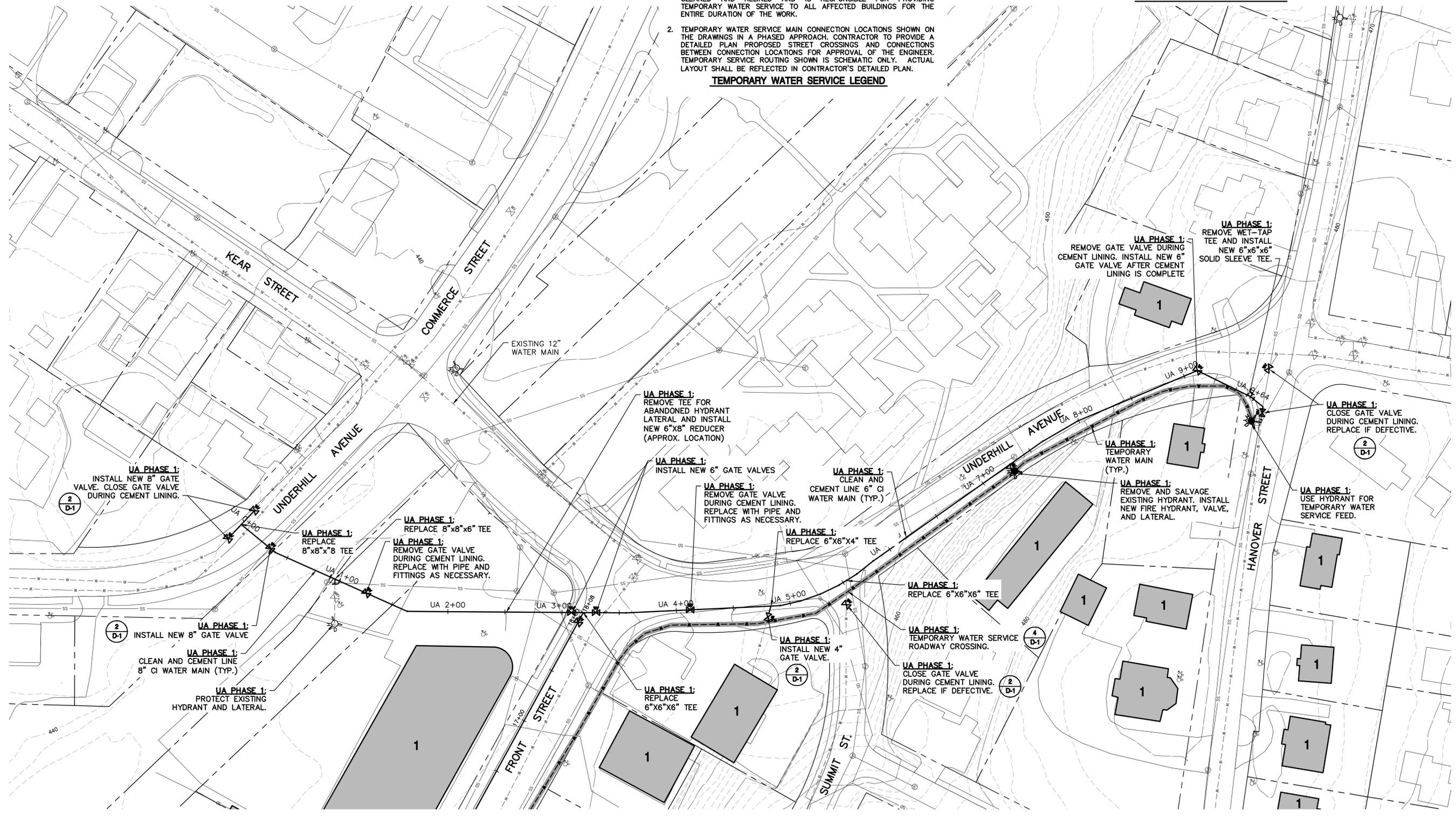


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TEMPORARY WATER SERVICE LEGEND



KEY PLAN - UNDERHILL AVENUE



1 UNDERHILL AVENUE - STA. UA 0+00 TO STA. UA 9+64
SCALE: 1" = 40'

\\na01\ssd\wse\Projects\NY\Yorktown, NY\EN21-0417 Cement Lining Construction Services\Bid Phase 2023 Bid Front and Underhill\CAOV\AS\CA-4 UNDERHILL AVENUE - STA. UA 0+00 TO STA. UA 9+64.dwg

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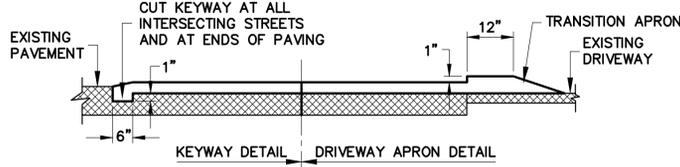


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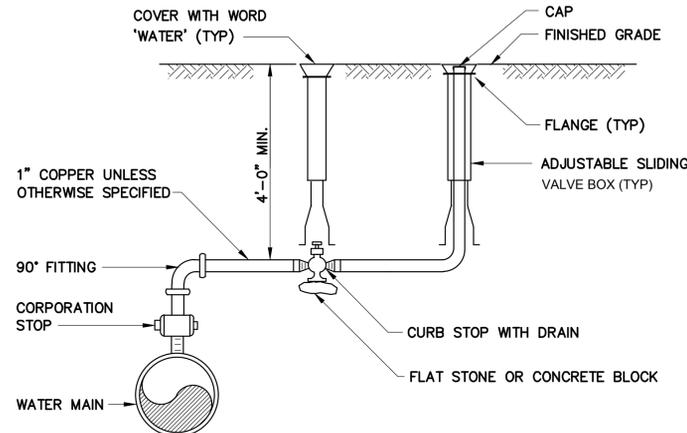
REGISTERED PROFESSIONAL ENGINEER _____ DATE _____



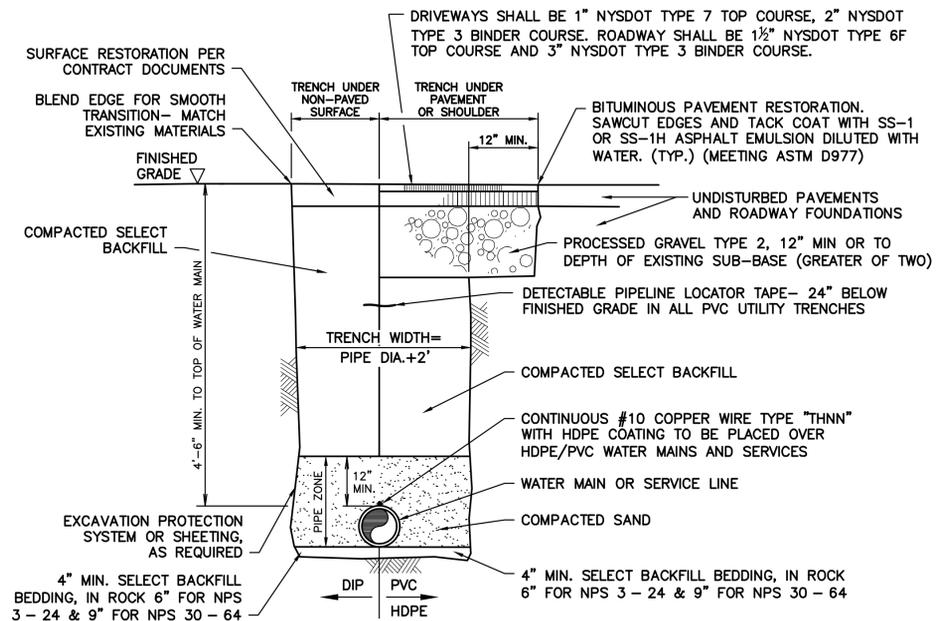
TOWN OF YORKTOWN, NEW YORK	DR. BY	CHK. BY	APP. BY
CLEANING AND CEMENT MORTAR LINING OF WATER MAIN ALONG FRONT STREET AND UNDERHILL AVENUE	JMZ	JMZ	JFB
UNDERHILL AVENUE - STA. UA 0+00 TO STA. UA 9+64	CONTRACT	SCALE	DATE
CADD NO. C-4	ENG21-0417	1" = 40'	



1 PAVEMENT REPLACEMENT DETAILS
SCALE: N.T.S.

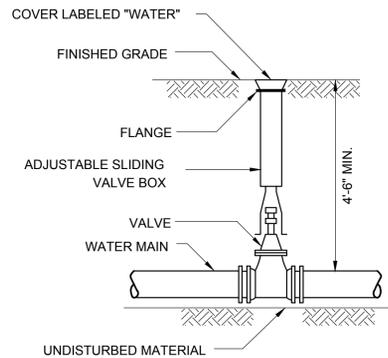


5 CURB STOP BLOW-OFF DETAIL
SCALE: N.T.S.

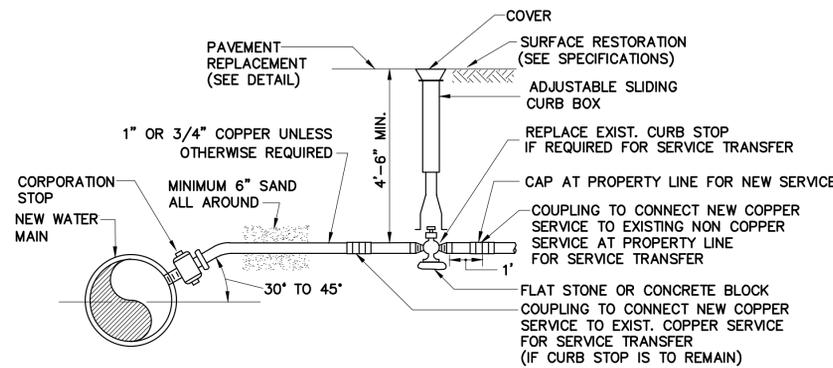


NOTE:
TRENCH/SIDE SLOPE STABILIZATION AND JOB SAFETY ARE THE RESPONSIBILITY OF THE CONTRACTOR. COMPLY WITH ALL APPLICABLE STATE AND FEDERAL REGULATIONS.

8 TYPICAL WATER MAIN TRENCH DETAIL
SCALE: N.T.S.

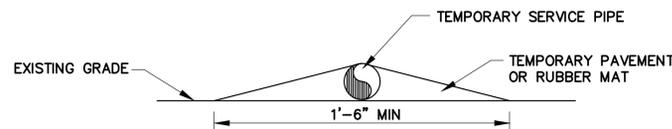


2 VALVE AND BOX DETAIL
SCALE: N.T.S.



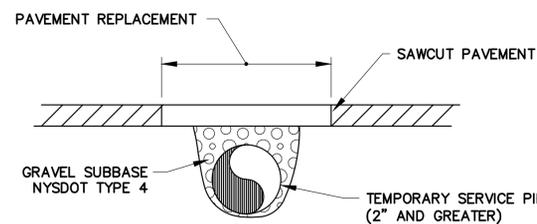
NOTE: PROVIDE SADDLE FOR ALL AC AND PVC MAINS AND ALL 2" OR LARGER STOPS

6 WATER SERVICE DETAIL
SCALE: N.T.S.

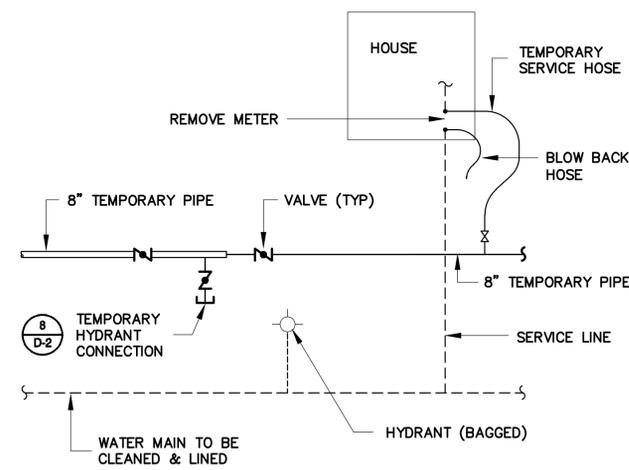


NOTE:
CUT INTO EXISTING PAVEMENT TO ENSURE CAR CAN SAFELY PASS CROSSING IF REQUIRED.

3 2 INCH TEMPORARY SERVICE PIPE DRIVEWAY CROSSING DETAIL
SCALE: N.T.S.



4 TEMPORARY SERVICE PIPE ROADWAY CROSSING DETAIL
SCALE: N.T.S.



7 TEMPORARY SERVICE PIPE DETAIL
SCALE: N.T.S.

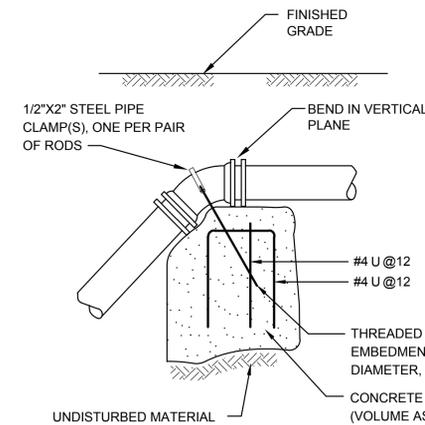


Table Of Dimensions For Anchor Blocks		NO. AND SIZE OF THREADED RODS	
BEND SIZE	Volume	NO.	DIAM.
6"-22.5°	0.6 C.Y.	2	1/2"
6"-45°	1.0 C.Y.	2	1/2"
8"-22.5°	1.0 C.Y.	2	1/2"
8"-45°	1.8 C.Y.	2	3/4"
12"-22.5°	2.5 C.Y.	2	3/4"
12"-45°	4.0 C.Y.	4	3/4"

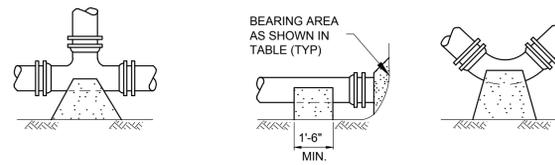


TABLE OF CONCRETE THRUST RESTRAINT MINIMUM BEARING AREAS IN SQUARE FEET AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS				
SIZE OF MAIN	90° BENDS, TEES, CAPS AND PLUGS	45° BENDS AND WYES	22-1/2° BENDS	11-1/4° BENDS
6", 8"	5	4	2	2
10", 12"	12	9	5	2

NOTE:
1. CONTRACTOR SHALL USE CARE TO AVOID PLACEMENT OF CONCRETE ON THE FITTING JOINTS

9 CONCRETE THRUST BLOCK DETAILS
SCALE: N.T.S.

\\saw01\local\WSE\Projects\NY\Yorktown, NY\ENG21-0417 Cement Lining Construction Services\Bid Phase\2023 Bid Front and Underhill\CAOV\PA5\1- CONSTRUCTION DETAILS.dwg

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REGISTERED PROFESSIONAL ENGINEER DATE



TOWN OF YORKTOWN, NEW YORK
CLEANING AND CEMENT MORTAR LINING OF WATER MAIN
ALONG FRONT STREET AND UNDERHILL AVENUE
CONSTRUCTION DETAILS

CONTRACT: ENG21-0417
SCALE: D-1
AS NOTED

CADD NO. D-1
FILE NO. D-1
D-1
SHEET 7 OF 13

SUGGESTED EROSION CONTROL CONSTRUCTION SCHEDULE:

1. FLAG THE GRADING LIMITS AND MARK A 10' BUFFER AREA BEYOND THE GRADING LIMITS FOR PROTECTION.
2. INSTALL TEMPORARY CONSTRUCTION ENTRANCE AT APPROXIMATE LOCATION OF DRIVEWAY IF DRIVEWAY STONE HAS NOT YET BEEN PLACED.
3. INSTALL PROTECTIVE MEASURES AROUND TREES TO BE RETAINED WITHIN GRADING LIMITS.
4. INSTALL BRIGHTLY COLORED CONSTRUCTION FENCE ALONG ROAD TO LIMIT VEHICULAR ACCESS TO STONE DRIVEWAY OR CONSTRUCTION ACCESS DRIVE.
5. INSTALL INLET PROTECTION DEVICES AT CATCH BASINS DOWN SLOPE FROM THE SITE THAT ARE VULNERABLE TO SEDIMENT ACCUMULATIONS.
6. COMPLETE SITE CLEARING, STOCKPILE SAVED MATERIALS IN DESIGNATED AREAS.
7. INSTALL SILT FENCES IN LOCATIONS AROUND THE PERIMETER OF SITE WORK, STOCKPILE AREA AND ALONG THE CONTOUR OF ALL DISTURBED SLOPES AT A MINIMUM OF EVERY 50' OF HORIZONTAL DISTANCE OR AS SPECIFIED, MEASURED PERPENDICULAR TO THE SLOPE.
8. ROUGH GRADE SWALES AROUND PROPOSED EARTHWORK AND STRUCTURES TO EXTENT POSSIBLE WITHIN GRADING LIMITS, INSTALL SILT FENCES, STRAW BALE DIKES, DIVERSION SWALES AND OTHER EROSION CONTROL MEASURES AS SHOWN ON PLANS, AND AS NECESSARY TO COMPLY WITH THE SWPPP AND ENSURE WATER QUALITY OF RUNOFF.
9. CONTRACTOR MUST ROUTINELY INSPECT AND MAINTAIN EROSION CONTROL DEVICES AND BEST MANAGEMENT PRACTICES (BMP'S). DOCUMENT WEEKLY INSPECTIONS IN SEPARATE CONTRACTOR'S LOG.
10. ROUTE ALL DEWATERING AND SUMP PUMP OUTFALLS, OF TURBID QUALITY, DIRECTLY TO SEDIMENT BASINS OR OTHER APPROPRIATE BMP.
11. THE CONTRACTOR SHALL INITIATE STABILIZATION OF ANY BARE SOIL AREAS, AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN 14 DAYS AFTER INITIAL DISTURBANCE OF THE RESPECTIVE AREAS OF THE SITE. THE CONTRACTOR SHALL RETAIN SITE RECORDS OF THE EARTHWORK AND STABILIZATION WORK PERFORMED. EXCEPTIONS TO THIS POLICY CAN BE GRANTED UNDER NORMAL CONDITIONS IN THE FOLLOWING INSTANCES:
 - A. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
 - B. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN TWENTY-ONE (21) DAYS, TEMPORARY STABILIZATION MEASURES NEED NOT BE INITIATED ON THAT PORTION OF THE SITE IF REQUESTED IN WRITING AND APPROVED BY THE ENGINEER.
12. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION IS ATTAINED. REMOVAL OF ANY EROSION CONTROL MEASURES MUST FIRST BE APPROVED BY THE ENGINEER AND/OR THE JURISDICTION HAVING AUTHORITY.
13. WHEN WEATHER CONDITIONS PROHIBIT SEED GERMINATION, DISTURBED GROUND SHOULD BE MULCHED WITH STRAW OR FIBER MULCH AND RECEIVE A BINDER/TACK APPLICATION OR EQUIVALENT.
14. THE SCHEDULE DESCRIPTIONS ABOVE ARE SUGGESTIONS PROVIDED TO ASSIST THE CONTRACTOR(S) IN DEVELOPING THEIR STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SCHEDULE SPECIFIC TO THIS PROJECT. THE ACTUAL SCHEDULING AND IMPLEMENTATION OF THE SWPPP AND MAINTENANCE OF REQUIRED WATER QUALITY IS THE RESPONSIBILITY OF THE CONTRACTOR(S). THE EROSION AND SEDIMENT CONTROL PLAN AND DEVICES SHOWN ARE CONSIDERED TO COMPRISE THE MAJORITY OF EFFORTS NEEDED, BUT NOT NECESSARILY ALL THAT WILL BE REQUIRED. WEATHER, SITE AND UNFORESEEN CONDITIONS CAN DICTATE THAT GREATER EFFORTS WILL BE NECESSARY. IN THE CASE OF PROJECTS THAT DISTURB MORE THAN 1 ACRE OF LAND, THE OWNER, OR OWNER'S REPRESENTATIVE, WILL DEVELOP THE SWPPP WITH SUBMITTED CONTRIBUTIONS FROM THE ASSIGNED CONTRACTORS PERFORMING PROJECT SITE WORK. THESE CONTRIBUTIONS WILL CONSIST OF AN EROSION AND CONTROL SCHEDULE (AS SPECIFIED IN THE PROJECT MANUAL), SHORT NARRATIVE OF ANTICIPATED EROSION CONTROL ACTIVITIES, INSPECTION REPORTS AND LOGS AND SIGNED CERTIFICATION STATEMENTS AND PRE-CONSTRUCTION PHOTOGRAPHS AS SPECIFIED. THIS COMPETENT PERSON SHALL BE EITHER A LICENSED ENGINEER, LANDSCAPE ARCHITECT OR CERTIFIED EROSION CONTROL SPECIALIST.

GENERAL MAINTENANCE PLAN:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK, IN ACCORDANCE WITH THE SWPPP AND NYSDEC SPDES GENERAL PERMIT No. GP-0-10-01. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. SEDIMENT WILL BE REMOVED FROM BEHIND STRAW BALE DIKES AND BEHIND SILT FENCES WHEN IT BECOMES 6" DEEP AT THE DIKE/FENCE OR WHEN ACCUMULATIONS HAVE ADVERSELY AFFECTED ITS FUNCTION. STRAW BALE DIKES AND SILT FENCES WILL BE REPAIRED BY REMOVING SILT AND SEDIMENTS AND THEN TAMPING LOOSE SOIL ALONG BASE, REPLACING DAMAGED OR WEAKENED POSTS AND STAKES, OR AS NECESSARY TO MAINTAIN A BARRIER.
3. SEDIMENT WILL BE REMOVED AND FILTER DEVICES CLEANED OR REPLACED AT CATCH BASINS WHEN THE SEDIMENT POOL NO LONGER DRAINS FREELY. SEDIMENT ACCUMULATIONS WITHIN DRAINAGE STRUCTURES AND PIPING SHALL BE CLEANED OUT AT THE PROJECT COMPLETION AND AS ORDERED BY ENGINEER WHEN DETERMINED THAT PRE-COMPLETION INSTALLATIONS NO LONGER FUNCTION PROPERLY DUE TO SEDIMENT OR DEBRIS. EVENTUAL SYSTEM CLEANING IS NOT AN EXCUSE TO NOT IMPLEMENT APPROPRIATE CONTROLS UPSTREAM. THE ENGINEER SHALL BE THE FINAL JUDGE REGARDING WHETHER THE PIPING SYSTEM REQUIRES CLEANING. THE CONTRACTOR CAN MINIMIZE THE NECESSITY OF EXTENSIVE SILT AND SEDIMENT ACCUMULATION REMOVALS BY EFFECTIVE IMPLEMENTATION OF THE SWPPP.
4. ALL DISTURBED AREAS WILL BE FERTILIZED, SEEDED AND MULCHED ACCORDING TO LANDSCAPE RESTORATION SPECIFICATIONS TO MAINTAIN VIGOROUS, DENSE VEGETATION. REPAIR ANY ERODED SLOPES, REPLY TOPSOIL, RESEED AND STABILIZE REPAIR AREA AS REQUIRED FOR PERMANENT OR TEMPORARY MEANS. REPAIR SOIL AREAS DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
5. IMMEDIATELY REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION EQUIPMENT, MAINTENANCE OR OTHER ACTIVITY TO ANY EROSION CONTROL MEASURE, OR BEST MANAGEMENT PRACTICE OR DEVICE.
6. THE PRIME CONTRACTOR(S) ARE RESPONSIBLE FOR THE PERFORMANCE AND COMPLIANCE OF THEIR SUB-CONTRACTOR'S ACTIVITIES RELATING TO THE SWPPP. THEY SHALL MAKE FREQUENT INSPECTIONS OF THEIR WORK AND COORDINATE APPROPRIATE INSTALLATION AND MAINTENANCE OF EROSION CONTROL AND WATER QUALITY DEVICES.
7. EMPLOY POLLUTION PREVENTION MEASURES TO CONTROL LITTER, CONSTRUCTION CHEMICALS, SEDIMENT AND CONSTRUCTION DEBRIS INCLUDING, BUT NOT LIMITED, TO THE FOLLOWING: SALVAGE AND REUSE OF MATERIALS, MINIMIZING PACKAGING WASTE, RECYCLING, PROPER DISPOSAL AT FREQUENT INTERVALS IN ACCORDANCE WITH PREVAILING LAWS, ONSITE INSTRUCTION REGARDING APPROPRIATE SEPARATION/HANDLING/RECYCLING, PERIODIC DEBRIS REMOVAL AT DRAINAGE STRUCTURES (GRATES AND SUMPS)/SEDIMENT TRAPS/FOREBAY AND OTHER BMP'S, PROPER MAINTENANCE OF SEDIMENT/ EROSION CONTROL SYSTEMS, ROUTINE AND EVENT RELATED INSPECTIONS OF DRAINAGE AND BMP SYSTEMS PER PERMIT REQUIREMENTS, PROVIDE APPROPRIATE SANITARY FACILITIES FOR ONSITE PERSONNEL, PICK UP TRASH AND DEBRIS FREQUENTLY AND USE WATER MIST, CALCIUM CHLORIDE OR OTHER LEGAL MEANS TO LIMIT THE SPREAD OF DUST AND SOIL PARTICLES.

PROTECTION OF TREES:

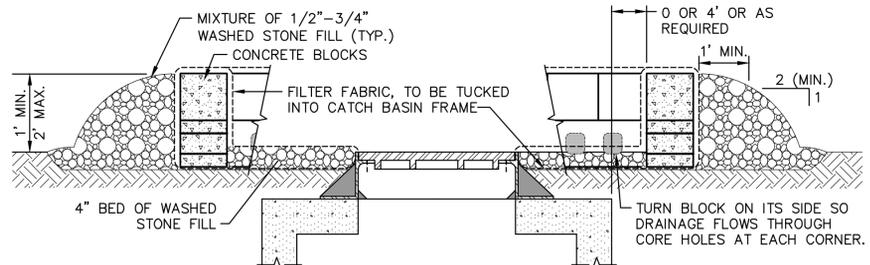
- PROTECT EXISTING TREES WHICH ARE TO REMAIN AND WHICH MAY BE INJURED, BRUISED, DEFACED, OR OTHERWISE DAMAGED BY CONSTRUCTION OPERATIONS, UTILIZING STANDARD TREE PROTECTION CRITERIA INCLUDING:
- A. INSTALLATION OF SAFETY ORANGE PLASTIC FENCING (MINIMUM 4' IN HEIGHT) AROUND INDIVIDUAL TREES DESIGNED FOR PROTECTION. FENCING SHALL BE INSTALLED AT THE OUTWARD LIMIT OF THE TREE'S DRIPLINE OR EXTENT OF CANOPY COVER.
 - B. INSTALLATION OF SAFETY ORANGE PLASTIC FENCING (MINIMUM 4' IN HEIGHT) AROUND GROUPS OF TREES DESIGNATED FOR PROTECTION.
 - C. TREE AND/OR SHRUB BRANCHES IN THE WAY OF EQUIPMENT SHALL BE TRIMMED ACCORDING TO PROFESSIONAL HORTICULTURAL STANDARDS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR AND SUB-CONTRACTORS USE EQUIPMENT TO DEMOLISH BRANCHES AS WORK PROCEEDS.

REQUIRED FENCING SHALL BE INSTALLED PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION. REMOVE DISPLACED ROCKS FROM UNCLEARED AREAS. BY APPROVED EXCAVATION, REMOVE TREES WITH 30 PERCENT OR MORE OF THEIR ROOT SYSTEMS DESTROYED. REMOVAL OF TREES AND THE PROCEDURE FOR REMOVAL REQUIRES APPROVAL OF THE CONTRACTING OFFICER. TREES DESIGNATED FOR REMOVAL SHALL BE REMOVED IN A MANNER THAT WILL NOT IMPACT ADJACENT TREES.

LANDSCAPE REPLACEMENT:

REMOVE TREES AND OTHER LANDSCAPE FEATURES SCARRED OR DAMAGED BY EQUIPMENT OPERATIONS, AND REPLACE WITH EQUIVALENT, UNDAUNTED TREES AND LANDSCAPE FEATURES. OBTAIN CONTRACTING OFFICER'S APPROVAL BEFORE REPLACEMENT. REPLACEMENT OF TREES SHALL OCCUR ON A ONE-TO-ONE BASIS. REGIONALLY NATIVE PLANTS AS SPECIFIED BY THE STATION "INTEGRATED NATURAL RESOURCES MANAGEMENT PLAN" (INRMP) SHALL BE USED AS REPLACEMENT LANDSCAPE FEATURES.

1 PROTECTION AND REPLACEMENT OF TREES
SCALE: N.T.S.

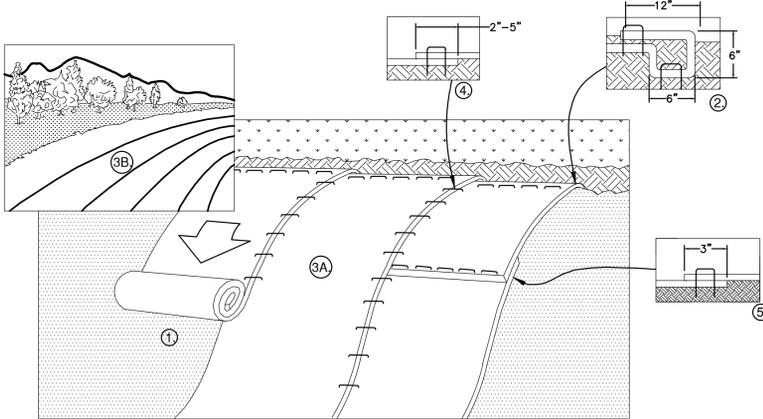


2 STONE AND BLOCK DROP INLET PROTECTION STRUCTURE
SCALE: N.T.S.

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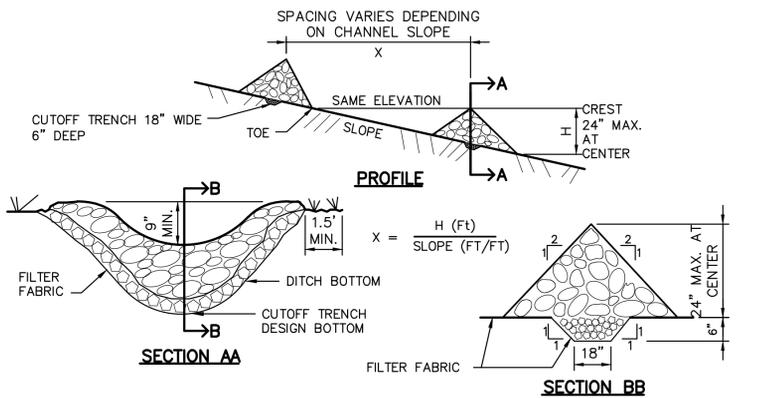
SWPPP
(STORMWATER POLLUTION PREVENTION PLAN)

- HAS BEEN DETERMINED TO BE REQUIRED BASED ON SCOPE OF PROJECT. SWPPP REQUIRES DOCUMENTS FROM CONSTRUCTION TEAM.
- HAS BEEN DETERMINED NOT TO BE REQUIRED BASED ON SCOPE OF PROJECT.
- REFER TO REQUIREMENTS LISTED ON THIS SHEET AND SPECIFICATION SECTION 01560 ENCLOSED IN THE SWPPP. IF SCOPE OF PROJECT CHANGES, THE REQUIREMENT FOR A SWPPP AND NYSDEC PERMITTING MAY REQUIRE RE-EVALUATION.



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPS), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-0--SEED DO NOT SEED PREPARED AREA. CELL-0--SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPS IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECPS EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPS WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECPS BACK OVER SEED AND COMPACTED SOIL. SECURE RECPS OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECPS.
3. ROLL THE RECPS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECPS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECPS MUST BE STAPLED WITH APPROXIMATELY 2" - 5" OVERLAP DEPENDING ON RECPS TYPE.
5. CONSECUTIVE RECPS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE ON RECPS TYPE.
NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECPS.

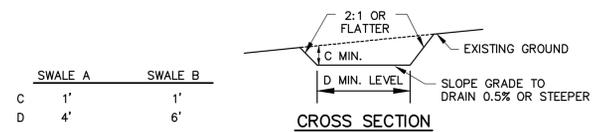
3 SLOPE STABILIZATION MATTING INSTALLATION DETAIL
SCALE: N.T.S.



CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA = 2 ACRES.
6. STONE SHALL BE A WELL GRADED STONE MATRIX 2 TO 9 INCHES IN SIZE.
(NYSDOT LIGHT STONE FILL MEETS THESE REQUIREMENTS).

4 STONE CHECK DAM DETAIL
SCALE: N.T.S.



CROSS SECTION

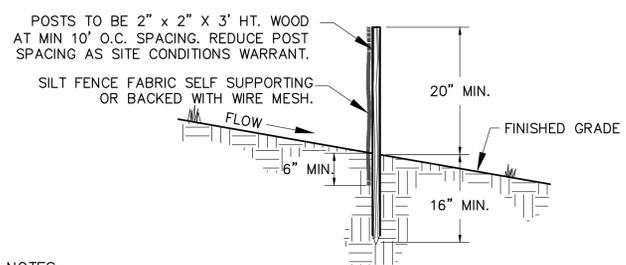
1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE CHART BELOW:

MINIMUM FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	SWALE A (5oc. OR LESS)	SWALE B (5oc.-10oc.)
1	0.5 - 3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1 - 5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR
3	5.1 - 8.0%	SEED WITH JUTE OR EXCELSIOR; SOD	LINED RIP-RAP 4-8" RECYCLED CONCRETE EQUIVALENT
4	8.1 - 20%	LINED 4-8" RIP-RAP	ENGINEERED DESIGN

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.
10. FLOW CHANNEL STABILIZATION SHOWN ABOVE WILL REQUIRE SUBSEQUENT MAINTENANCE AND ATTENTION, SINCE RUNOFF PATTERNS, QUANTITY, QUALITY AND SEDIMENT CONTENT VARY WIDELY FROM SITE TO SITE. ACTUAL STABILIZATION MAY EXCEED THAT SHOWN IN THE CONTRACT DOCUMENTS. REMOVE SILT ACCUMULATIONS ROUTINELY AND DISPOSE OF PROPERLY SUCH THAT WATER QUALITY IS NOT IMPAIRED. DO NOT INTRODUCE SILT INTO TOPSOIL/RESTORATION AREAS.
11. REMOVE TEMPORARY SWALE WHEN SITE IS SUBSTANTIALLY OR COMPLETELY STABILIZED AND SWALE IS NO LONGER REQUIRED. PERFORM FINAL GRADING AND ESTABLISH VEGETATION AT ALL DISTURBED AREAS.

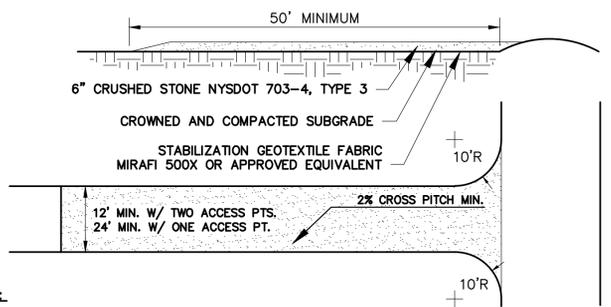
5 DIVERSION SWALE DETAIL
SCALE: N.T.S.



NOTES:

1. SILT FENCE FABRIC SHALL BE FIRMLY ATTACHED TO POSTS USING WIRE TIES OR STAPLES.
2. EMBED FILTER CLOTH A MINIMUM OF 6" BELOW FINISHED GRADE.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED A MINIMUM OF SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED IN ACCORDANCE WITH THE "GENERAL MAINTENANCE PLAN" OR WHEN BULGES OF MATERIAL DEVELOP IN FENCES.
5. ENCIRCLE ALL SOIL STOCKPILES, TEMPORARY OR PERMANENT.
6. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE OR APPROVED EQUIVALENT.

6 SILT FENCE DETAIL
SCALE: N.T.S.



NOTES:

1. STABILIZATION FABRIC SHALL BE PLACED OVER THE ENTIRE ENTRANCE AREA PRIOR TO PLACING OF STONE. OVERLAP FABRIC PER MANUFACTURER'S SPECIFICATIONS.
2. ALL SURFACE WATER FLOWING OR DIVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE ROAD.
3. WHEN EQUIPMENT WASHING IS REQUIRED IT SHALL BE DONE ON A SEPARATE AREA ADJACENT TO THE ENTRANCE ROAD AND STABILIZED WITH STONE. EQUIPMENT WASHING WILL BE REQUIRED IF ROAD RECEIVES SIGNIFICANT SOILS OR DEBRIS ACCORDING TO JUDGMENT BY OWNER OR OWNER'S REPRESENTATIVE.
4. KEEP ROADS CLEAR OF STONES, MUD, AND OTHER CONSTRUCTION DEBRIS. CLEAN PAVEMENT AS ACCUMULATIONS WARRANT AND AS ORDERED BY ENGINEER.
5. REMOVE SILT ACCUMULATIONS ROUTINELY AND DISPOSE OF PROPERLY SUCH THAT WATER QUALITY IS NOT IMPAIRED. DO NOT INTRODUCE SILT INTO DRAINAGE SYSTEM OR TOPSOIL/RESTORATION AREAS.

7 STABILIZED CONSTRUCTION ENTRANCE PAD DETAIL
SCALE: N.T.S.

No.	Date	Dr. By	Ch. By	App. By	Description
					A P R O V E D



MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

GENERAL MAINTENANCE AND PROTECTION OF TRAFFIC

1. THE MAINTENANCE AND PROTECTION PLANS SHOWN ARE STANDARDS FOR THE MOST COMMON SITUATIONS. ADDITIONAL PROTECTION SHALL BE PROVIDED WHERE SPECIAL CIRCUMSTANCES OCCUR.
2. ALL TRAFFIC CONTROL DEVICES USED FOR MAINTENANCE AND PROTECTION OF TRAFFIC SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS AS SET FORTH IN THE NYS DOT M.U.T.C.D. (LATEST REVISIONS & AMENDMENTS) AND THE STANDARD SPECIFICATIONS (LATEST REVISIONS & AMENDMENTS).
3. THE CONTRACTOR MAY SUBMIT REVISIONS TO THIS PLAN FOR APPROVAL, BUT ANY CHANGE THAT ALTERS THE BASIC CONCEPTS OF THE PLAN MUST BE APPROVED BY THE REGIONAL DIRECTOR OR HIS DESIGNEE.
4. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH ALL THE PROVISIONS OF STANDARD SPECIFICATIONS, ITEM 619.01.4 - BASIC MAINTENANCE AND PROTECTION OF TRAFFIC, AND ITEM 619.02 M - CONSTRUCTION SIGNS, OR AS AMENDED ON THIS SHEET.
5. NO TEMPORARY LANE CLOSURES SHALL BE ALLOWED BEFORE SUNRISE OR AFTER SUNSET, OR AT OTHER TIMES WHEN VISIBILITY IS REDUCED TO LESS THAN 1000 FEET, UNLESS REQUIRED BY THE ENGINEER.
6. THE TRAVEL LANE WIDTH AVAILABLE SHALL BE 10 FEET MINIMUM AT ALL TIMES AND 10 FEET MINIMUM ON ALL OTHER ROADS, UNLESS OTHERWISE SHOWN IN THE PLANS.
7. MOST WORK OPERATIONS ARE CONSIDERED TO BE LONG DURATION OPERATIONS WHERE THE EQUIPMENT BEING USED PROGRESSES ALONG THE ROADWAY MORE OR LESS CONTINUOUSLY, AS IN SEEDING AND PAVEMENT MARKING OPERATIONS, CAN BE CONSIDERED MOVING WORK AREAS.
8. ALL SHADOW VEHICLES SHALL WEIGH IN EXCESS OF 8,200 KG. SHADOW VEHICLES SHALL BE EQUIPPED WITH MOBILE CONSTRUCTION ZONE IMPACT ATTENUATOR, AS CALLED FOR UNDER STANDARD SPECIFICATIONS SUBSECTION 619-1.02. BASIC MAINTENANCE AND PROTECTION OF TRAFFIC.
9. VEHICLES BELONGING TO THE CONTRACTOR, OR THE CONTRACTOR'S EMPLOYEES, SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDER, OR WITHIN 20 FEET OF THE EDGE OF PAVEMENT ALONG OR ADJACENT TO TRAVEL LANES OPEN TO TRAVEL, WITHIN THE PROJECT LIMITS.
10. THE CONTRACTOR SHALL NOT PARK EQUIPMENT OR STORE MATERIAL OVERNIGHT WHERE IT IS DEEMED BY THE ENGINEER TO BE HAZARDOUS TO TRAFFIC.
11. ALL VEHICLES THAT WILL BE MOVING IN AND OUT OF TRAFFIC AT WORK AREAS SHALL BE EQUIPPED WITH AN APPROVED AMBER ROTATING SAFETY LIGHT. THE LIGHTS SHALL BE MOUNTED SO AS TO BE EASILY SEEN BY APPROACHING TRAFFIC.
12. DRIVING AGAINST TRAFFIC AT ANY TIME, REGARDLESS OF WHETHER THE AREA HAS BEEN CLOSED TO TRAFFIC, SHALL NOT BE PERMITTED, EXCEPT FOR TRAFFIC CONE PICKUP, AND AS SPECIFICALLY PERMITTED BY THE ENGINEER.
13. ESCORT VEHICLES EQUIPPED WITH AN AMBER LIGHT OR AN OPERATING ARROW-BOARD WILL BE REQUIRED WHEN TRANSPORTING SLOW MOVING CONSTRUCTION EQUIPMENT ALONG ANY PORTION OF THE ROADWAY OPEN TO TRAFFIC.
14. WHEN REOPENING DRIVING LANES TO TRAFFIC, THE CONTRACTOR SHALL START BY REMOVING THE CONES AT THE FAR END OF THE LANE CLOSURE AND WORKING TOWARDS THE SIGNS AT THE BEGINNING OF THE LANE CLOSURE. THE SIGNS ARE NOT TO BE TAKEN DOWN UNTIL ALL TRAFFIC CONTROL DEVICES HAVE BEEN REMOVED.
15. PRIOR TO ANY REDUCTION IN EXISTING LANE WIDTH(S), THE CONTRACTOR SHALL PROVIDE THE ENGINEER TWENTY-ONE (21) DAYS NOTICE SO HE MAY INFORM THE REGIONAL PERMIT ENGINEER OF THE WIDTH REDUCTION(S) IN A TIMELY MANNER.
16. SEE SUBSECTION 619-3.01 IN THE STANDARD SPECIFICATIONS (LATEST REVISION) FOR REQUIRED TREATMENT OF PAVEMENT EDGE DROP-OFFS AND DELINEATION.
17. EXCAVATIONS THAT PRODUCE DROP-OFFS ON BOTH SIDES OF THE TRAVEL WAY AT THE SAME TIME SHALL NOT BE PERMITTED. SHOULDER AREAS SHOULD BE PREPARED TO RECEIVE THE SHOULDER PAVEMENT MATERIAL IMMEDIATELY AHEAD OF THE SHOULDER PAVING OPERATIONS TO MINIMIZE THE TIME A DROP-OFF EXISTS. "NO SHOULDER" (W4-13C) SIGNS SHALL BE ERRECTED NO MORE THAN 400 METERS APART THROUGHOUT THE PROJECT WHERE A DROP-OFF EXISTS.
18. THE BOTTOM OF ALL TEMPORARY CONSTRUCTION SIGNS SHALL BE A MINIMUM OF 7 FEET ABOVE THE SURFACE.
19. THE CONTRACTOR SHALL PROVIDE FULL PATTERN PAVEMENT WARNINGS FOR TRAFFIC CONTROL IN CONFORMANCE WITH THE REQUIREMENTS OF STANDARD SPECIFICATIONS, ITEM 619.21.01 M CONSTRUCTION ZONE PAVEMENT MARKINGS. IT MAY BE NECESSARY TO MARK, REMARK, ALTER AND/OR OBLITERATE PAVEMENT MARKINGS ON TEMPORARY AND PERMANENT PAVEMENT WHERE REQUIRED BY THE ENGINEER. THE MARKING SHALL BE REMOVED BY MEANS WHICH COMPLETELY REMOVE ALL TRACES OF STRIPES. THE ENGINEER SHALL CONTACT THE REGIONAL TRAFFIC ENGINEER ONE WEEK PRIOR TO TOP COURSE STRIPPING TO VERIFY PATTERN AND LIMITS. ALL TOP COURSE STRIPPING SHALL CONFORM TO THE PROJECT'S FINAL MARKINGS WITH RESPECT TO COLOR AND PATTERN.
20. ALL TEMPORARY STRIPING IS TO BE REMOVED WITHIN 48 HOURS AFTER THE INSTALLATION OF PERMANENT STRIPING.
21. EXISTING GUIDE RAIL SHALL REMAIN IN PLACE UNTIL CONSTRUCTION ACTIVITIES NECESSITATE REMOVAL. NEW GUIDE RAIL SHALL BE INSTALLED WITHIN TWO WEEKS OF EXISTING RAIL REMOVAL UNLESS OTHERWISE APPROVED BY THE ENGINEER. TEMPORARY PROTECTION DEVICES OR DELINEATION SHALL BE INSTALLED AS REQUIRED BY THE ENGINEER. WHENEVER GUIDE RAILING IS REMOVED, THE CONTRACTOR SHALL INSTALL VERTICAL PANELS OR DRUMS IN ACCORDANCE WITH SECTION 292.3 AND 292.4 OF THE NYS MUTCD. THEY SHALL BE PLACED AT 30 FEET INTERVALS. THEY SHALL BE LEFT IN PLACE UNTIL THE NEW GUIDE RAIL IS INSTALLED OR THE SLOPE FLATTENING WORK IS COMPLETED.
22. SHORT DURATION ALTERNATING ONE-WAY TRAFFIC SHALL NOT BE ALLOWED UNLESS APPROVAL HAS BEEN GRANTED BY THE REGIONAL DIRECTOR OR HIS DESIGNEE. ALTERNATING ONE-WAY TRAFFIC MAY BE MAINTAINED ON SIDE ROADS DURING WORKING HOURS IN ACCORDANCE WITH DETAILS ON MPT NOTE 9 ABOVE. HOWEVER, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TWO UNOBTSTRUCTED LANES FOR TWO-WAY TRAFFIC DURING NON-WORKING HOURS. FLAGGERS WILL BE REQUIRED TO USE RADIO OR SIMILAR CONTACT WHEN THEY ARE MAINTAINING ONE-WAY TRAFFIC WHEN ONE FLAGGER IS NOT VISIBLE TO THE OTHER OR IF, IN THE OPINION OF THE ENGINEER, THIS COMMUNICATION IS NECESSARY. THE COST OF ANY RADIO OR FIELD TELEPHONES USED SHALL BE INCLUDED IN THE BID PRICE.
23. THE COST OF PROVIDING AND MAINTAINING SAFE AND ADEQUATE INGRESS AND EGRESS TO AND FROM HOMES AND COMMERCIAL ESTABLISHMENTS AT ALL TIMES, TO THE SATISFACTION OF THE ENGINEER, SHALL BE BORNE BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROVIDING SAFE PEDESTRIAN ACCESS AT ALL TIMES.
24. IF NYS DOT NOTIFIES THE CONTRACTOR OR HIS SUPERINTENDING OF ANY HAZARDOUS CONSTRUCTION PRACTICES, ALL OPERATIONS IN THAT AREA SHALL BE DISCONTINUED AND IMMEDIATE REMEDIAL ACTION SHALL BE TAKEN TO THE SATISFACTION OF NYS DOT BEFORE WORK IS RESUMED.
25. IN ORDER TO MAINTAIN EFFECTIVE TRAFFIC CONTROL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC CONTROL: MAKING SURE ALL SIGNS, CONES, FLASHERS, DRUMS, ETC. ARE IN PLACE AND IN GOOD CONDITION. THE SOLE JUDGE OF THE EFFECTIVENESS OF THE CONTRACTOR'S OPERATIONS TOWARDS THE PROTECTION OF TRAFFIC AND PERSONNEL SHALL BE NYS DOT.
26. FLAGGERS SHALL BE LOCATED AT ALL ACTIVE WORK AREAS AND AT OTHER LOCATIONS WITHIN A WORK AREA WHERE RESTRICTED SIGHT DISTANCE IMPEDS THE FLOW OF TRAFFIC.
27. EXISTING TRAFFIC SIGNS SHALL BE COVERED AND UNCOVERED AS NECESSARY DURING CONSTRUCTION.
28. IF, IN THE JUDGEMENT OF THE OWNER, FLAGS ON SIGNS ARE NECESSARY DUE TO LIMITED SIGHT DISTANCE, THEY SHALL BE PROVIDED BY THE CONTRACTOR.
29. THE WORK AREA IS TO BE CLEANED DAILY AND LEFT IN AN ACCEPTABLE MANNER.
30. THE UNEVEN TRANSVERSE PAVEMENT SURFACES, (I.E., PAVEMENT REBATES, END OF PAVED OR MILLED SECTIONS) SHALL BE DUAL POSTED WITH "BUMP" (W4-1C) SIGNS SHALL BE PLACED ON A TYPE III BARRICADE AND ILLUMINATED WITH A FLASHING BEACON. ALL PAVEMENT TRANSITIONS SHALL HAVE NO STEEPER THAN 1 ON 4 LONGITUDINAL SLOPE AS MEASURED IN THE DIRECTION OF TRAVEL.
31. ALL REBATES SHALL BE PAVED WITHIN TWENTY-FOUR (24) HOURS.

33. THE CONTRACTOR SHOULD NOTE THAT BURIED UTILITIES EXIST WITHIN THE PROJECT LIMITS AND MAY BE ENCOUNTERED DURING CONSTRUCTION. EXTREME CARE SHOULD BE EXERCISED TO AVOID DAMAGE TO THESE FACILITIES. ANY DAMAGE SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER AND TO THE OWNER OF THE UTILITY. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPAIRS.
34. PEDESTRIAN AND BICYCLIST TRAFFIC SHALL BE MAINTAINED AND PROTECTED AT ALL TIMES IN ACCORDANCE WITH SECTION 619 OF THE NYS DOT STANDARD SPECIFICATIONS. PEDESTRIAN ACCESS SHALL CONFORM WITH THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES.
35. NEW SIDEWALK CONSTRUCTION SHALL BE SCHEDULED SO THAT REMOVAL AND REPLACEMENT SHALL BE ACCOMPLISHED WITH SECTION 619 OF THE NYS DOT STANDARD SPECIFICATIONS. PEDESTRIAN ACCESS SHALL CONFORM WITH THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES.
36. "SIDEWALK CLOSED" SIGNS PLACED ON TYPE III BARRICADES (R8-3C) SHALL BE USED WHERE SIDEWALKS ARE CLOSED DUE TO CONSTRUCTION ACTIVITIES.
37. "SHARED ROADWAY" SIGNS (W5-6C AND W5-17 X MOD) SHALL BE INSTALLED, AS APPROPRIATE, WHERE TRAVEL LANES AND/OR SHOULDER ARE BEING RECONSTRUCTED.
38. STOP/SLOW PADDLES USED AS SIGNALING DEVICES SHALL COMPLY WITH SECTION 293.2 OF THE NYS MUTCD, EXCEPT THAT THE MOUNTING HEIGHT SHALL BE 6 FEET MINIMUM.
39. THE CLEAR ROADSIDE AREA IS DEFINED AS THE AREA ADJACENT TO THE EDGE OF TRAVEL LANE WHICH MUST BE FREE OF OBSTACLES OR HAZARDS, THE CLEAR ROADSIDE AREA SHALL BE 20 FEET.
40. IN THE EVENT THAT THE CONTRACTOR ELECTS (WITH APPROVAL FROM THE ENGINEER), OR IS REQUIRED BY THE ENGINEER, TO SHUT DOWN OPERATIONS FOR THE WINTER SEASON PRIOR TO PROJECT COMPLETION, THE CONTRACTOR SHALL MAINTAIN TRAFFIC PATTERNS OF THE CONSTRUCTION PHASE IN EFFECT WHEN OPERATIONS CEASE. THE CONTRACTOR SHALL PROVIDE UNOBTSTRUCTED TRAVEL LANES AT WIDTHS CORRESPONDING TO THOSE SHOWN ON THE CONSTRUCTION SEQUENCING PLANS, ON HARD ROADWAY SURFACES THROUGHOUT THE LENGTH OF THE PROJECT. FULL PAVEMENT STRIPING SHALL BE PROVIDED AND MAINTAINED AS SPECIFIED ON THE PLANS AND IN NOTE 20. DELINEATION DEVICES SHALL BE MOVED TO A DISTANCE OF 4 FEET MINIMUM FROM THE EDGE OF TRAVEL LANE TO PROVIDE FOR SNOW STORAGE, UNLESS OTHERWISE REQUIRED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SNOW WHICH ACCUMULATES AROUND DELINEATION DEVICES AND FOR KEEPING ALL IN PROPER WORKING CONDITION. ALL APPROACH CONSTRUCTION SIGNING SHALL REFLECT THE ACTUAL CONDITIONS AT ALL TIMES AS PER NYS MUTCD. IN ADDITION THE CONTRACTOR SHALL BE REQUIRED TO DO THE FOLLOWING:
 - A) PROVIDE ASPHALT WEDGES, WITH SUITABLE BOND BREAKERS, AROUND ALL DRAINAGE STRUCTURES WITHIN THE PAVEMENT AREA. ALL WATER VALVE BOXES AND MANHOLES SHALL BE SET AT THE PAVEMENT GRADE AT THE TIME OF SHUT DOWN AND SHALL BE ADJUSTED TO FINISHED GRADE THE FOLLOWING SEASON.
 - B) PROVIDE FULL PAVEMENT DELINEATION USING REFLECTORIZED PAVEMENT MARKING PAINT, CONFORMING TO SECTION 640 OF THE STANDARD SPECIFICATIONS.

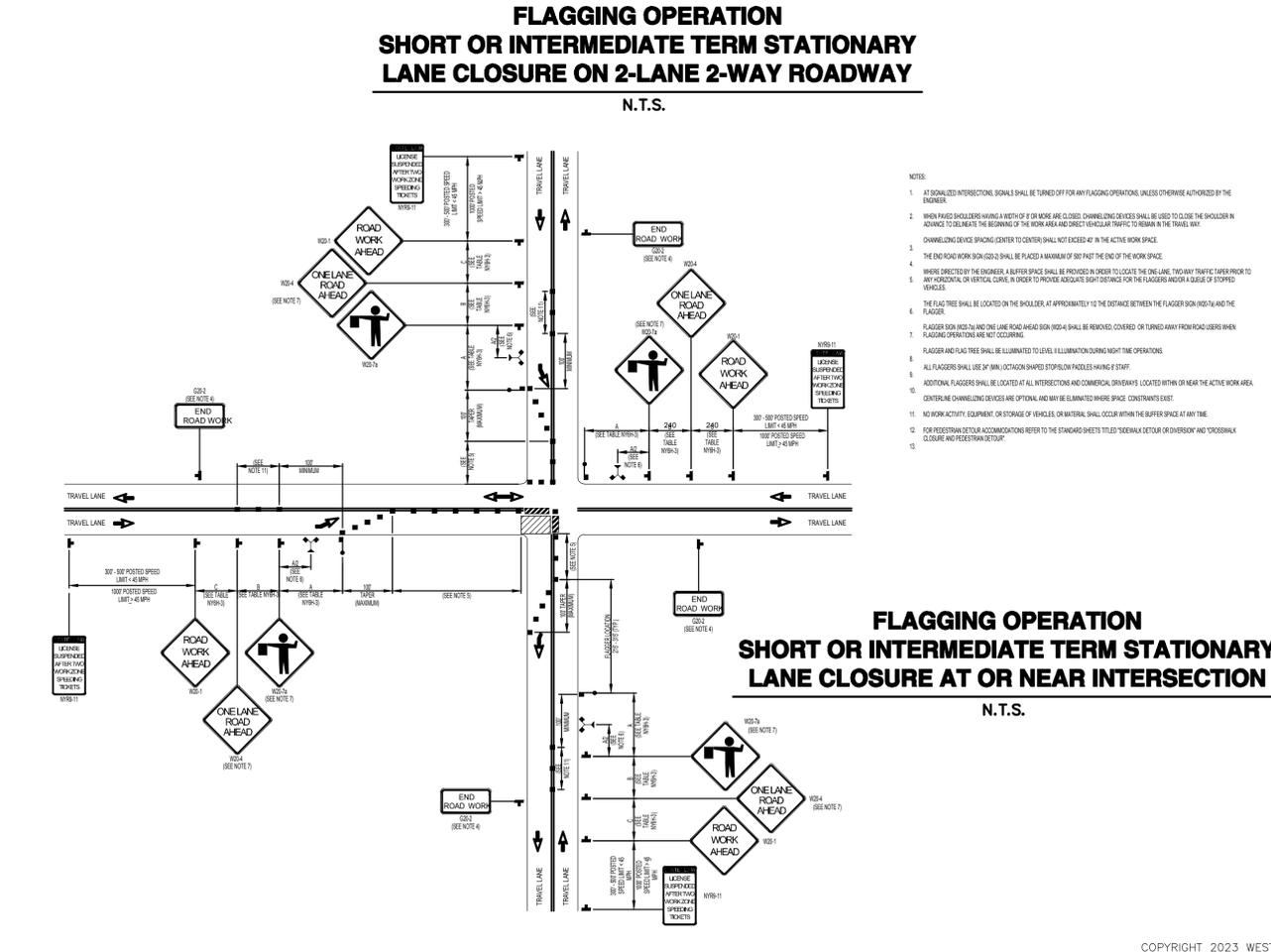
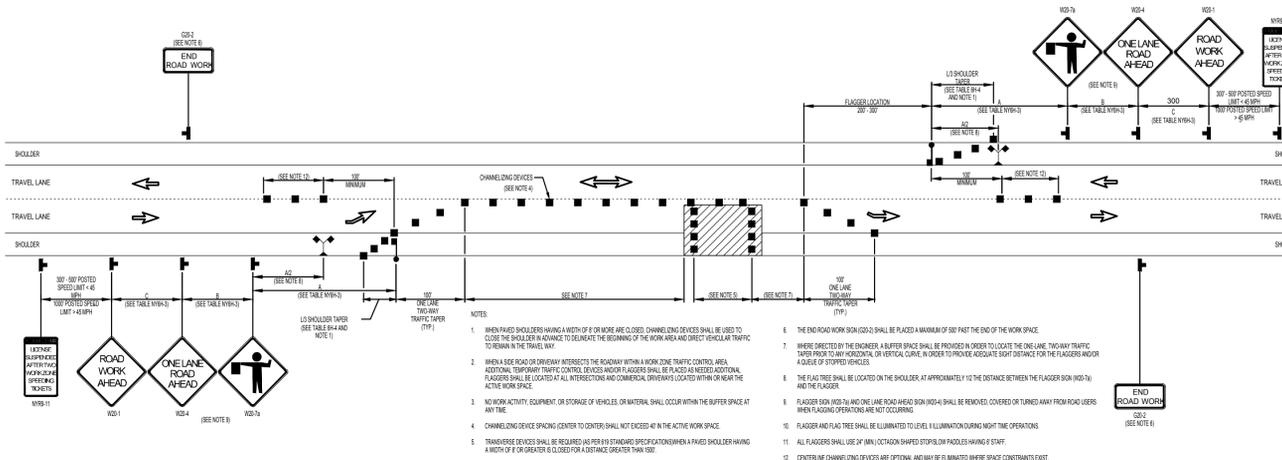
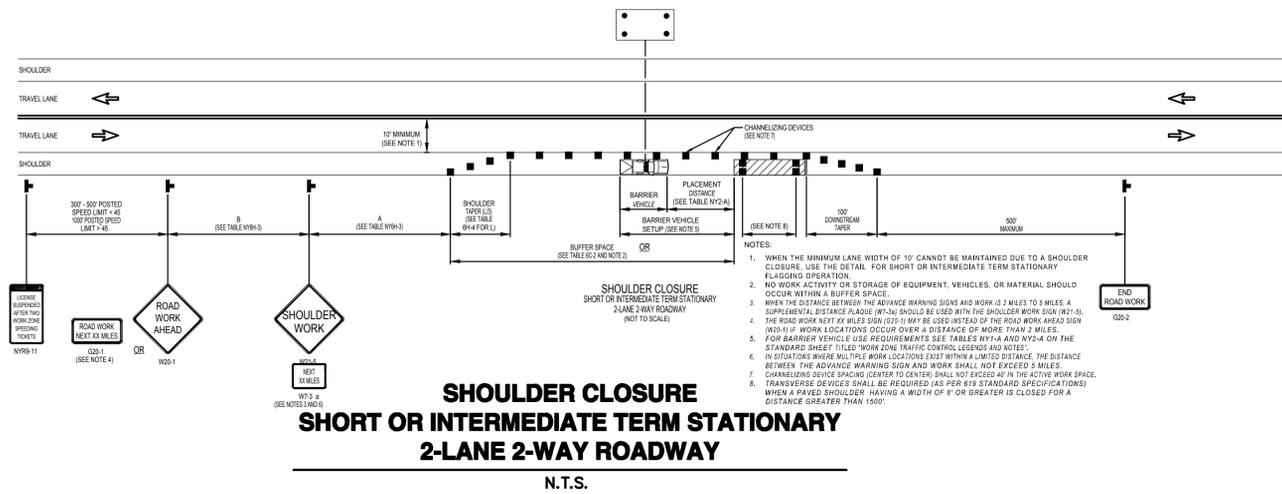
- ALL MISCELLANEOUS WORK REQUIRED TO PREPARE THE ROADWAY FOR WINTER SHUTDOWN SHALL BE INCLUDED IN THE BID PRICE.
41. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING CULVERT AND DRAINAGE INSTALLATION TO PROVIDE ADEQUATE STORM WATER RUNOFF COLLECTION DURING ALL CONSTRUCTION PHASES. ANY TEMPORARY DRAINAGE CONNECTIONS, INLET ELEVATION ADJUSTMENTS, OR OTHER WORK NECESSARY OR ORDERED BY THE ENGINEER TO ENSURE RUNOFF COLLECTION SHALL BE INCLUDED IN THE BID PRICE.
 42. THE CONTRACTOR SHALL LIMIT THE LENGTH OF THE WORK ZONE TO 1000 FEET OR AS SHOWN ON THE CONTRACT DRAWINGS. THE MINIMUM DISTANCE BETWEEN WORK ZONES SHALL BE 1000 FEET.
 43. RUMBLE STRIPS, STANDARD SPECIFICATIONS ITEM 18619.6460 SHALL BE INSTALLED UPSTREAM OF ALL G11-1C SIGNS. EACH RUMBLE STRIP SHALL CONSIST OF SIX (6) SEPARATE STRIPS PLACED ON 10 FEET CENTERS, WITH EACH STRIP TRAVERSING THE FULL WIDTH OF THE TRAVEL LANE. RUMBLE STRIPS FORMED BY APPLYING MULTIPLE LAYERS OF REMOVABLE PERFORMED PAVEMENT MARKING TAPE SHOULD NORMALLY BE USED. MILLED-IN, SAWCUT, OR RAISED ASPHALT STRIPS MAY BE USED ON PAVEMENT SURFACES THAT ARE SCHEDULED TO BE OVERLAD, REMOVED, OR REPLACED. THE CONTRACTOR SHALL REMOVE OR FILL IN THE RUMBLE STRIPS WHEN THEY ARE NO LONGER NECESSARY. RUMBLE STRIPS SHALL BE REMOVED OR FILLED IN BEFORE THE WINTER PLOWING SEASON AND BEFORE THE PLACEMENT OF AN OVERLAY.

- HOLIDAY CONSTRUCTION RESTRICTIONS**
1. THE CONTRACTOR SHALL CONSULT WITH THE REGIONAL DIRECTOR OR DESIGNEE FOR THE LATEST CALENDAR YEAR CONSTRUCTION RESTRICTIONS AND DURATION FOR ANY AND ALL HOLIDAYS THAT FALL WITHIN THE CONSTRUCTION PERIOD.
- II. CONSTRUCTION ACTIVITIES**
1. WORK ZONES ON OPPOSITE SIDES OF THE ROAD SHALL NOT OVERLAP. A WORK ZONE IS DEFINED AS THAT AREA IN WHICH TRAFFIC IS RESTRICTED BECAUSE OF CONSTRUCTION ACTIVITIES OR THAT AREA WHICH INVOLVES A DROP-OFF WITHIN 30 FEET OF THE EDGE OF PAVEMENT.
 2. NO MATERIAL IS TO BE STORED WITHIN THE ROADSIDE AREA (DEFINED FOR THIS PROJECT AS THE AREA WITHIN 10 FEET OF THE EDGE OF PAVEMENT), EXCEPT THAT WHICH IS TO BE PLACED THAT DAY WITH THE APPROVAL OF THE ENGINEER.
 3. CONSTRUCTION EQUIPMENT SHALL BE REMOVED FROM THE ROADSIDE AREA OF ALL HIGHWAY PAVEMENT DURING THE HOURS THAT THE CONTRACTOR IS NOT WORKING. THIS REQUIREMENT SHALL NOT BE LIMITED TO THE CONTRACT LIMITS.
 4. CONTRACTOR VEHICLES NOT IN USE AND PRIVATE VEHICLES OWNED BY CONTRACTOR'S EMPLOYEES SHALL BE PARKED IN DESIGNATED PARKING AREA.
 5. ALL OPERATIONS INCLUDING PAVING, ROLLING, GRADING, SUPPLYING OF MATERIAL AND THE TRAVEL OF SUPERVISORY PERSONNEL THROUGH THE WORK ZONE, AND THE ENTIRE LENGTH OF THE CONTRACT, WILL ALWAYS BE IN THE DIRECTION OF NORMAL TRAFFIC EXCEPT WHERE SPECIFICALLY ALLOWED OTHERWISE BY NYS DOT TO PERFORM A PARTICULAR OPERATION.
 6. WHEN TRAFFIC IS TO BE MAINTAINED ON AN UNPAVED SURFACE DURING THE WORK DAY, A MINIMUM OF 12 INCHES OF SUBBASE MATERIAL, (ITEM 304.12) SHALL FIRST BE PLACED AND COMPACTED. THE CONTRACTOR SHALL USE CALCIUM CHLORIDE AS A MEANS OF DUST CONTROL. "PAVEMENT ENDS" SIGNS (W4-30) SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 234 OF THE NYS MUTCD IN ADVANCE OF ALL SUCH AREAS AS REQUIRED BY THE ENGINEER. DURING NON-WORKING HOURS, THROUGH-TRAFFIC WILL BE MAINTAINED ON A PAVED SURFACE CONSISTING OF A MINIMUM OF 12 INCHES OF SUBBASE MATERIAL (ITEM 302.12) AND 2 INCHES OF TEMPORARY PAVEMENT (ITEM 403.13.0001).
 7. DUE TO THE HIGH DENSITY OF RESIDENTIAL AND COMMERCIAL PROPERTIES WITHIN THE CONTRACT LIMITS, THE FOLLOWING WORK HOUR RESTRICTIONS SHALL BE STRICTLY ENFORCED: NO WORK MAY BE PERFORMED BETWEEN THE HOURS OF 11:00 P.M. AND 7:00 A.M.

- NO WORK MAY BE PERFORMED BETWEEN THE HOURS OF 11:00 P.M. AND 7:00 A.M.
- TRAFFIC SIGNALS:**
NONE
- COORDINATION WITH UTILITIES**
- THE CONTRACTOR SHALL COOPERATE AND COORDINATE WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES OCCUPYING THE PROJECT SITE. THE FOLLOWING UTILITY COMPANIES MAY BE REQUIRED TO BE CONTACTED THROUGHOUT THE PROJECT CORRIDOR:

ALGONQUIN GAS & ELECTRIC	914-737-1892
AT&T	800-286-8313
CABLEVISION	914-862-4348
COMCAST	800-266-2278
CON EDISON	914-789-6818
NY TELEPHONE	914-890-6611
NYS DEPARTMENT OF PUBLIC WORKS	914-232-3060
TIME WARNER CABLE	800-431-8878
NYSEG (GAS)	914-890-7711
NYSEG (ELECTRIC)	800-572-1131
OPTIMUM (TELEPHONE)	866-472-0117
OPTIMUM (CABLE)	845-624-8200

It is a violation of New York state education law, article 145, enacted 07-31-73, for any person, unless he is acting under the direction of a licensed professional engineer or architect, to alter an item in any way. If an item is altered by a licensed professional engineer or architect, the altering engineer or architect shall affix to the item his seal and the notation "altered by" followed by his signature, date of such alteration and specific description of such alteration.



All drawings prepared or furnished by Weston & Sampson PE, L.S., L.A., P.C. are instruments of service in respect to the project and Weston & Sampson PE, L.S., L.A., P.C. shall retain an ownership and property interest therein whether or not the project is completed. Individuals may make and retain copies for information and reference in connection with the use and occupancy of the project. Such documents are the sole property of Weston & Sampson PE, L.S., L.A., P.C. and are not intended or represented to be suitable for reuse by anyone on extensions of the project, on any other project(s) or duplication for professional stamping by others. Any reuse or reuse for professional stamping by others without the express written verification or adoption by Weston & Sampson PE, L.S., L.A., P.C. for the specific purposes intended will be at the sole risk of the individual(s) and without liability to Weston & Sampson PE, L.S., L.A., P.C. or any of its independent associates or consultants and those individuals shall indemnify and hold harmless Weston & Sampson PE, L.S., L.A., P.C. or Weston & Sampson PE, L.S., L.A., P.C.'s independent associates or consultants from all claims, damages, losses and expenses, including attorney fees arising out of or resulting therefrom. Any such verification or adoption will entitle Weston & Sampson PE, L.S., L.A., P.C. to further compensation rates at the time of such verification or adoption from those individuals. All drawings prepared or furnished by Weston & Sampson PE, L.S., L.A., P.C. for project are protected under federal copyright laws.

No.	Date	Dr. By	Ch. By	App. By	Description	DATE
		A	P	R	O	V
					E	D

REGISTERED PROFESSIONAL ENGINEER



\\nas01.local\workspace\Projects\NY\Yorktown, NY\ENG21-0417 Cement Lining Construction Services\Bid Phase\2023 Bid Front and Underhill\CAQ\PAS\T-3 TRAFFIC MAINTENANCE AND PROTECTION.dwg

WORK ZONE TRAFFIC CONTROL SIGN TABLE					
SIGN	SIGN DESIGNATION	COLOR CODE	CONVENTIONAL ROAD	EXPRESSWAY	FREEWAY
	E5-1	C	-----	72"x60"	72"x60"
	G20-1	A	36"x18"	48"x24"	48"x24"
	G20-2	A	36"x18"	48"x24"	48"x24"
	G20-4	A	36"x18"	-----	-----
	G20-5aP	A	24"x18"	36"x24"	36"x24"
	M1-1	G	1 OR 2 DIGITS 24"x24"	36"x36"	36"x36"
	M1-1t	G	3 DIGITS 30"x24"	45"x36"	45"x36"
	M1-4	B	1 OR 2 DIGITS 24"x24"	36"x36"	36"x36"
	M1-4t	B	3 DIGITS 30"x24"	45"x36"	45"x36"
	M3-1	SEE NOTE 3	24"x12"	36"x18"	36"x18"
	M3-2				
	M3-3				
	M3-4				
	M4-8	A	24"x12"	36"x18"	36"x18"
	M4-8a	A	24"x18"	24"x18"	24"x18"
	M4-8b	A	30"x24"	48"x36"	48"x36"
	M4-9 M4-9L M4-9R	A	30"x24"	48"x36"	48"x36"
	M4-9a	A	30"x24"	30"x24"	-----
	M4-9b	A	30"x24"	30"x24"	-----
	M4-9c	A	30"x24"	30"x24"	-----
	M4-10L	A	48"x18"	48"x18"	48"x18"
	M4-10R				
	M5-1	SEE NOTE 3	21"x15"	30"x21"	30"x21"
	M5-2	SEE NOTE 3	21"x15"	30"x21"	30"x21"
	M6-1	SEE NOTE 3	21"x15"	30"x21"	30"x21"
	M6-2				
	M6-3				
	M6-4				
	NYM3-1	B	24"x24"	36"x36"	36"x36"
	NYM3-2	B	30"x24"	45"x36"	45"x36"
	NYM3-3	B	30"x24"	45"x36"	45"x36"

WORK ZONE TRAFFIC CONTROL SIGN TABLE					
SIGN	SIGN DESIGNATION	COLOR CODE	CONVENTIONAL ROAD	EXPRESSWAY	FREEWAY
	NYR9-11	B	24"x42"	48"x84"	48"x84"
	NYR9-12	B	24"x36"	36"x54"	48"x72"
	NYW4-17	A	36"x36"	48"x48"	48"x48"
	NYW8-30	A	48"x24"	48"x24"	48"x24"
	NYW8-31	A	48"x24"	48"x24"	48"x24"
	NYW8-32	A	48"x24"	48"x24"	48"x24"
	NYW8-33	A	48"x24"	48"x24"	48"x24"
	R1-1	D	36"x36"	36"x36"	48"x48"
	R1-2	E	36"x36"x36"	48"x48"x48"	60"x60"x60"
	R2-1	B	24"x30" OR 30"x36" (SEE NOTE 5)	36"x48"	36"x48"
	R2-11	B	24"x30"	36"x48"	36"x48"
	R2-12	B	24"x36"	36"x54"	36"x54"
	R4-1	B	24"x30"	36"x48"	36"x48"
	R4-7	B	24"x30"	36"x48"	36"x48"
	R4-7c	B	18"x30"	-----	-----
	R4-8	B	24"x30"	36"x48"	36"x48"
	R4-8c	B	18"x30"	-----	-----
	R4-9	B	24"x30"	36"x48"	36"x48"
	R5-1	E	36"x36"	36"x36"	48"x48"
	R9-8	B	36"x18"	36"x18"	-----
	R9-9	B	24"x12"	24"x12"	-----
	R9-10L	B	24"x12"	24"x12"	-----
	R9-10R				
	R9-11L	B	24"x18"	24"x18"	-----
	R9-11R				
	R9-11aL	B	24"x12"	24"x12"	-----
	R9-11aR				
	R10-6	B	24"x36"	24"x36"	-----
	R11-2	B	48"x30"	48"x30"	48"x30"

WORK ZONE TRAFFIC CONTROL SIGN TABLE					
SIGN	SIGN DESIGNATION	COLOR CODE	CONVENTIONAL ROAD	EXPRESSWAY	FREEWAY
	R11-3a	B	60"x30"	60"x30"	-----
	W1-4L W1-4R	A	36"x36"	48"x48"	48"x48"
	W1-4bL W1-4bR	A	36"x36"	48"x48"	48"x48"
	W1-4cL W1-4cR	A	36"x36"	48"x48"	48"x48"
	W1-6L	A	48"x24"	60"x30"	60"x30"
	W1-6R	A			
	W1-8L	A (NO BORDER)	18"x24"	30"x36"	30"x36"
	W1-8R	A (NO BORDER)			
	W3-1	A ⁴	36"x36"	48"x48"	48"x48"
	W3-2	A ⁴	36"x36"	48"x48"	48"x48"
	W3-3	A ⁴	36"x36"	48"x48"	48"x48"
	W3-4	A	36"x36"	48"x48"	48"x48"
	W3-5	A ⁴	36"x36"	48"x48"	48"x48"
	W4-1L W4-1R	A	36"x36"	48"x48"	48"x48"
	W4-2L W4-2R	A	36"x36"	48"x48"	48"x48"

ROADWAY DEFINITIONS:
 CONVENTIONAL ROAD - A STREET OR HIGHWAY OTHER THAN A FREEWAY, OR EXPRESSWAY.
 EXPRESSWAY - A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.
 FREEWAY - A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS.

COLOR CODE LEGEND	
CODE	DESCRIPTION
A	BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND
B	BLACK LEGEND AND BORDER ON A WHITE BACKGROUND
C	WHITE LEGEND AND BORDER ON A GREEN BACKGROUND
D	WHITE LEGEND AND BORDER ON A RED BACKGROUND
E	RED LEGEND AND BORDER ON A WHITE BACKGROUND
F	BLACK LEGEND AND BORDER ON A FLOURESCENT YELLOW GREEN BACKGROUND
G	WHITE LEGEND AND BORDER ON A BLUE AND RED BACKGROUND

- NOTES:
- DIMENSIONS ARE SHOWN AS WIDTH X HEIGHT.
 - FOR SIGNAGE NOT SHOWN ON THESE TABLES REFER TO THE M.U.T.C.D.
 - COLORS FOR DIRECTION PLAQUES, ADVANCE TURN ARROWS, AND DIRECTIONAL ARROWS SHALL MATCH THE ROUTE OR INTERSTATE SIGN THAT THEY SUPPLEMENT AS PER THE M.U.T.C.D.
 - MULTICOLORED SYMBOL, IMPOSED ON SIGN WITH BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND.
 - FOR R2-1 SIGN LARGER DIMENSIONS SHALL BE USED WHEN SIGN FACES MULTIPLE LANES ON A CONVENTIONAL ROAD.

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No.	Date	Dr. By	Ch. By	App. By	Description
					A P P R O V E D



TOWN OF YORKTOWN, NEW YORK
 CLEANING AND CEMENT MORTAR LINING OF WATER MAIN
 ALONG FRONT STREET AND UNDERHILL AVENUE
TRAFFIC MAINTENANCE AND PROTECTION

SCALE: T-3 AS NOTED
 CONTRACT: ENG21-0417
 JOB NO.: JMW
 DR. BY: JMW
 CHK. BY: JMW
 APP. BY: JWB
 FILE NO.: T-3 AS NOTED

WORK ZONE TRAFFIC CONTROL SIGN TABLE					
SIGN	SIGN DESIGNATION	COLOR CODE	CONVENTIONAL ROAD	EXPRESSWAY	FREEWAY
	W5-1	A	36"X36"	48"X48"	48"X48"
	W5-4	A	36"X36"	48"X48"	48"X48"
	W6-3	A	36"X36"	48"X48"	48"X48"
	W7-3aP	A	24"X18"	36"X30"	36"X30"
	W8-1	A	36"X36"	48"X48"	48"X48"
	W8-3	A	36"X36"	48"X48"	48"X48"
	W8-7	A	36"X36"	48"X48"	48"X48"
	W8-8	A	36"X36"	48"X48"	48"X48"
	W8-9	A	36"X36"	48"X48"	48"X48"
	W8-12	A	36"X36"	-----	-----
	W8-14	A	36"X36"	48"X48"	48"X48"
	W8-15	A	36"X36"	48"X48"	48"X48"
	W8-17	A	36"X36"	48"X48"	48"X48"
	W8-17p	A	24"X18"	30"X24"	30"X24"
	W8-23	A	36"X36"	48"X48"	48"X48"
	W8-24	A	36"X36"	48"X48"	48"X48"
	W9-3	A	36"X36"	48"X48"	48"X48"
	W11-1L W11-1R	A OR F	36"X36"	36"X36"	-----
	W11-2L W11-2R	F	36"X36"	36"X36"	-----
	W11-15L W11-15R	F	36"X36"	36"X36"	-----

WORK ZONE TRAFFIC CONTROL SIGN TABLE					
SIGN	SIGN DESIGNATION	COLOR CODE	CONVENTIONAL ROAD	EXPRESSWAY	FREEWAY
	W13-1P	A	24"X24"	30"X30"	30"X30"
	W14-3	A	36"X36"	36"X36"	36"X36"
	W13-4P	A	48"X48"X36"	-----	-----
	W16-1P	SEE NOTE 3 A OR F	18"X24"	24"X30"	-----
	W16-2P	A	24"X18"	30"X24"	-----
	W16-4P	SEE NOTE 3 A OR F	30"X24"	-----	-----
	W16-5PL W16-5PR	A	24"X18"	-----	-----
	W16-7PL W16-7PR	SEE NOTE 3 A OR F	24"X12"	30"X18"	-----
	W16-9P	SEE NOTE 3 A OR F	24"X12"	30"X18"	-----
	W20-1	A	36"X36"	48"X48"	48"X48"
	W20-2	A	36"X36"	48"X48"	48"X48"
	W20-3	A	36"X36"	48"X48"	48"X48"
	W20-4	A	36"X36"	48"X48"	48"X48"
	W20-5	A	36"X36"	48"X48"	48"X48"
	W20-5	A	36"X36"	48"X48"	48"X48"
	W20-5a	A	36"X36"	48"X48"	48"X48"
	W20-5a	A	36"X36"	48"X48"	48"X48"
	W20-7	A	36"X36"	48"X48"	48"X48"

WORK ZONE TRAFFIC CONTROL SIGN TABLE					
SIGN	SIGN DESIGNATION	COLOR CODE	CONVENTIONAL ROAD	EXPRESSWAY	FREEWAY
	W21-1	A	36"X36"	48"X48"	48"X48"
	W21-4	A	36"X18"	48"X24"	48"X24"
	W21-5	A	36"X36"	48"X48"	48"X48"
	W21-5aL W21-5aR	A	36"X36"	48"X48"	48"X48"
	W21-5bL W21-5bR	A	36"X36"	48"X48"	48"X48"
	W21-8	A	36"X36"	48"X48"	48"X48"
	W22-1	A	36"X36"	48"X48"	48"X48"
	W22-2	A	42"X36"	42"X36"	42"X36"
	W22-3	A	42"X36"	42"X36"	42"X36"
	W23-2	A	36"X36"	48"X48"	48"X48"
	W24-1L W24-1R	A	36"X36"	48"X48"	48"X48"
	W24-1aL W24-1aR	A	36"X36"	48"X48"	48"X48"
	W24-1bL W24-1bR	A	36"X36"	48"X48"	48"X48"

ROADWAY DEFINITIONS:
 CONVENTIONAL ROAD - A STREET OR HIGHWAY OTHER THAN A FREEWAY, OR EXPRESSWAY.
 EXPRESSWAY - A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.
 FREEWAY - A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS.

COLOR CODE LEGEND	
CODE	DESCRIPTION
A	BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND
B	BLACK LEGEND AND BORDER ON A WHITE BACKGROUND
C	WHITE LEGEND AND BORDER ON A GREEN BACKGROUND
D	WHITE LEGEND AND BORDER ON A RED BACKGROUND
E	RED LEGEND AND BORDER ON A WHITE BACKGROUND
F	BLACK LEGEND AND BORDER ON A FLOURESCENT YELLOW GREEN BACKGROUND
G	WHITE LEGEND AND BORDER ON A BLUE AND RED BACKGROUND

- NOTES:
 1. DIMENSIONS ARE SHOWN AS WIDTH X HEIGHT.
 2. FOR SIGNAGE NOT SHOWN ON THESE TABLES REFER TO THE M.U.T.C.D.
 3. WHEN USED IN CONJUNCTION WITH A BICYCLE SIGN (W11-1) OR PEDESTRIAN CROSSING (W11-2) COLOR CODE SHALL MATCH.

\\nas01\sc01\WSE\Projects\NY\Yorktown, NY\EM21-0417 Cement Lining Construction Services\1-4 TRAFFIC MAINTENANCE AND PROTECTION.dwg

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No.	Date	Dr. By	Ch. By	App. By	Description
					A P P R O V E D
					REGISTERED PROFESSIONAL ENGINEER
					DATE



TOWN OF YORKTOWN, NEW YORK	DR. BY	CHK. BY	APP. BY
CLEANING AND CEMENT MORTAR LINING OF WATER MAIN ALONG FRONT STREET AND UNDERHILL AVENUE	JMZ	JMZ	CWS
TRAFFIC MAINTENANCE AND PROTECTION	SCALE:	CONTRACT:	JOB NO.:
T-4	AS NOTED	ENG21-0417	ENG21-0417
CADD NO.	FILE NO.		