

File: z:\engineering\job files\0761-16 Drawings\section 3\ Sheets\CO.1.dwg, Last saved: 8/21/2024, By: PCORMAN, Plot Date: 8/21/2024, Plot Style: MARATHON STANDARD.CTBR

NOTES, INFORMATION AND SPECIFICATIONS

GENERAL

- 1. APPLICABILITY** - THE NOTES AND INFORMATION PROVIDED ON THIS SHEET ARE APPLICABLE TO ALL "C" SERIES DRAWINGS. THE "C" SERIES DRAWINGS COVER SITE RELATED IMPROVEMENTS OUTSIDE THE BUILDING ENVELOPE. THE BUILDING ENVELOPE INCLUDES ALL AREA WITHIN 5' OUTSIDE OF THE BUILDING'S EXTERIOR WALL.
- 2. MAPPING** - THE EXISTING UNDERGROUND UTILITIES WERE PLOTTED BASED ON RECORD MAPPING SUPPLIED BY OTHERS. THE ENGINEER MAKES NO WARRANTY AS TO THE LOCATION, SIZE, TYPE, ELEVATION, AND/OR NUMBER OF EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN THE VICINITY OF THE NEW INFRASTRUCTURE.
- 3. STAKEOUT** - THE CONTRACTOR SHALL NOTIFY DIO SAFELY NEW YORK (1-800-962-7962) FOR A UTILITY STAKEOUT 48 HOURS IN ADVANCE OF COMMENCING WORK. STAKEOUT OF PRIVATE UTILITIES SHALL BE COORDINATED WITH THE OWNER.
- 4. PROPERTY PROTECTION** - THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING PAVEMENT, CURBS, WALKS, LAWNS, TREES, ETC. CAUSED BY THEIR CONSTRUCTION OPERATIONS. ALL DAMAGE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE OWNER'S SATISFACTION AT NO ADDITIONAL EXPENSE.
- 5. ACCESS** - THE CONTRACTOR SHALL PROVIDE SATISFACTORY VEHICULAR ACCESS TO ALL ADJOINING PROPERTIES, PRIVATE ROADWAYS, PARKING FACILITIES, AND PUBLIC STREETS DURING CONSTRUCTION.
- 6. SITE SAFETY** - PRIOR TO AND THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL POST SIGNAGE IN CONFORMANCE WITH THE REQUIREMENTS OF THE LOCAL MUNICIPALITY AND OCCUPATIONAL HEALTH AND SAFETY ACT (OHSA). JOB SAFETY AND MAINTENANCE AND PROTECTION OF TRAFFIC IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 7. EXCAVATIONS** - ALL EXCAVATIONS SHALL BE BACKFILLED/BARRICADED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONCLUSION OF EACH WORKING DAY.
- 8. MAINTENANCE** - PUBLIC STREETS, PRIVATE DRIVES AND PARKING FACILITIES SHALL BE KEPT FREE OF FOREIGN MATERIALS. ALL AREAS SHALL BE SWEEP CLEAN AT THE END OF EACH WORKING DAY AND/OR AS DIRECTED BY THE OWNER'S ON-SITE REPRESENTATIVE.
- 9. CONSTRUCTION STORAGE** - STORAGE OF EQUIPMENT AND MATERIALS SHALL BE WITHIN A SPECIFIED AND SECURED AREA AS DETERMINED IN CONTRACT DOCUMENTS OR AS SPECIFIED BY THE OWNER'S ON-SITE REPRESENTATIVE.
- 10. PERMIT(S)** - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FROM THE APPLICABLE MUNICIPALITY OR AGENCY. THE CONTRACTOR IS RESPONSIBLE FOR ALL BONDS AND INSURANCES AND THE OWNER IS RESPONSIBLE FOR PERMIT FEES UNLESS OTHERWISE STATED IN THE OWNER/ CONTRACTOR AGREEMENT.

CONSTRUCTION

- 1. STAKEOUT** - THE CONSTRUCTION STAKEOUT SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR USING CONTROL PROVIDED ON THESE PLANS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER (PRIOR TO THE INSTALLATION OF IMPROVEMENTS) FOR COORDINATION AND CLARIFICATION.
- 2. BOUNDARY** - BOUNDARY INFORMATION WAS TAKEN FROM "BOUNDARY SURVEY MAP PREPARED FOR WEBSTER FOLF COURSE WEST" PREPARED BY MAGDE LAND SURVEYING, P.C. DATED 12/7/2013 AND IS SHOWN FOR GRAPHICAL REPRESENTATION ONLY.
- 3. DEMOLITION** - CLEARING AND GRUBBING SHALL BE LIMITED TO THE SITE BOUNDARIES OR WITHIN THE "WORK LIMIT LINE" AS DEFINED ON THE PLAN. TREES AND OBJECTS DESIGNATED FOR REMOVAL SHALL BE COORDINATED AND FIELD VERIFIED WITH PROJECT ON-SITE REPRESENTATIVE. ALL MATERIALS SHALL BE LEGALLY DISPOSED OF OFF-SITE OR RETURNED TO OWNER AS DIRECTED BY CONTRACT DOCUMENTS. ALL ITEMS NOT SPECIFICALLY CALLED OUT TO BE REMOVED SHALL REMAIN.
- 4. COORDINATION** - THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITY WORK WITH OTHER SITE UTILITIES (I.E. GAS, ELECTRIC, LIGHTING, COMMUNICATIONS) TO AVOID POTENTIAL INSTALLATION CONFLICTS.
- 5. STAGING** - AS DEFINED BY THE CONTRACT DOCUMENTS THE CONTRACTOR SHALL CONSTRUCT A SECURE STAGING AREA FOR STORAGE OF EQUIPMENT, MATERIALS, EMPLOYEE PARKING AND OFFICE SPACE. IF THE AREAMETHOD IS NOT SPECIFICALLY DEFINED ON THE DOCUMENTS THEN IT SHALL BE COORDINATED WITH THE OWNER'S ON-SITE REPRESENTATIVE.
- 6. CLOSE-OUT** - THE CONTRACTOR'S WORK SCOPE INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING AT PROJECT CLOSE-OUT TO THE SATISFACTION OF OWNER'S ON-SITE REPRESENTATIVE:
 - REMOVAL OF ANY CONSTRUCTION DEBRIS.
 - CLEANING PAVEMENT AND WALKWAY SURFACES.
 - RESTORATION OF ALL DISTURBED GRASS AND LANDSCAPED AREAS.
 - PROVIDING BONDS, GUARANTEES, CERTIFICATIONS, ETC. AS REQUIRED BY CONTRACT DOCUMENTS.
 - PROVIDING REDLINES FOR RECORD DRAWING.
 - COMPLETION OF FINAL PUNCH LIST ITEMS.

UTILITIES

1. SANITARY

1.1 MATERIALS

- MAINS** - PIPING SHALL BE POLYVINYL CHLORIDE (PVC) WITH ENDS SUITABLE FOR ELASTOMERIC GASKET JOINTS, AND A MINIMUM WALL THICKNESS OF SDR-35. PIPING AND FITTINGS SHALL MEET: ASTM F-479 (18" THRU 48")
- LATERALS** - PIPING SHALL BE POLYVINYL CHLORIDE (PVC) WITH ENDS SUITABLE FOR ELASTOMERIC GASKET JOINTS, AND A MINIMUM WALL THICKNESS OF SDR-21 OR SCH. 40 4 INCHES IN DIAMETER. PIPING AND FITTINGS SHALL MEET ASTM D-2241.
- JOINTING MATERIALS** - SHALL BE BELL-AND-SPOUT WITH INTEGRAL PUSH ON TYPE ELASTOMERIC GASKET JOINTS, GASKET MATERIAL TO BE NEOPRENE MEETING ASTM D-3212.
- MANHOLES** - SHALL BE PRECAST CONCRETE WITH NEOPRENE GASKETS MEETING ASTM C-478 & ASTM C-443.

1.2 INFILTRATION/ EXFILTRATION

- MAXIMUM ALLOWABLE INFILTRATION OR EXFILTRATION SHALL NOT EXCEED 100 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER DAY FOR THE SANITARY SEWER, IF AN AIR TEST IS USED. THE TEST AS A MINIMUM SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM DESIGNATION C828-86 ENTITLED PRACTICE FOR LOW PRESSURE AIR TEST OF VITRIFIED CLAY PIPE LINES. SANITARY MANHOLES SHALL BE VISUALLY INSPECTED AND TESTED FOR LEAKAGE BY EX FILTRATION OR VACUUM VACUUM TESTING OF MANHOLES SHALL COMPLY WITH THE METHOD OUTLINED IN THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION TECHNICAL INFORMATION PAMPHLET (TIP) NO. 15 (REVISED).**

1.3 FLOOR DRAINS

- FLOOR DRAINS** - FLOOR DRAINS, IF CONSTRUCTED IN THE PROJECT, MUST BE CONNECTED TO THE SANITARY SEWER. **NOTE:** FLOOR DRAINS DO NOT INCLUDE FOUNDATION OR FOOTER DRAINS INSTALLED TO INTERCEPT UNCONTAMINATED GROUND WATER. ALL DISCHARGES TO THE SANITARY SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR THE MONROE COUNTY SEWER USE LAW.

1.4 TESTING

- DEFLECTION TESTS** SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5% IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL. IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.

1.5 SEPARATION

- MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER LINES** SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT ("COMPACT") SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES. MANHOLES OR VAULTS.

UTILITIES (CONT.)

2. STORM

- 2.1 REGULATIONS** - STORM SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE LATEST REGULATIONS OF THE MUNICIPALITY.
- 2.2 MATERIALS** - THE CONTRACTOR MAY USE THE FOLLOWING PIPE MATERIAL FOR THE MAIN SEWER AS ALLOWED BY THE MUNICIPALITY, PROVIDING THAT THE ROUGHNESS COEFFICIENT ("N" FACTOR) IS 0.013 OR BETTER:
 - REINFORCED CONCRETE PIPE (RCP), CLASS III
 - CORRUGATED STEEL PIPE (CSP), 16 GAUGE, ASPHALT COATED-SMOOTH BORE
 - HIGH DENSITY CORRUGATED POLYETHYLENE PIPE (PE), AASHTO M-29, TYPE S, ASTM D-3350.
 - LATERALS SHALL BE SDR-21, 6 INCHES IN DIAMETER.

- 2.3 ROOF DRAINAGE** - UNLESS OTHERWISE NOTED ON THE PLANS, ALL ROOF DRAINAGE SHALL BE DIRECTED TO SPLASH BLOCKS OR DAYLIGHTED TO THE REAR OF THE LOT. SUMP PUMPS SHALL BE CONNECTED TO THE STORM LATERALS.

- 2.4 TESTING** - UPON COMPLETION OF SYSTEM INSTALLATION, THE MAIN SEWER SYSTEM AND LEADS TO STRUCTURES SHALL BE FLUSHED AND LAMPED TO THE SATISFACTION OF THE MUNICIPALITY.

3. PUBLIC WATER EXTENSION

(MCWA AND MCPHD)

- 3.1 SPECIFICATIONS** - WATER MAINS AND APPURTENANCES TO BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS AND SPECIFICATIONS OF THE MONROE COUNTY WATER AUTHORITY.

3.2 MATERIAL:

- WATER MAIN(S)** SHALL BE 8-INCH DUCTILE IRON ZINC COATED CLASS 52.
- WATER SERVICE(S)** SHALL BE 1-INCH TYPE K COPPER FROM THE WATER MAIN TO THE CURB BOX AND 1-INCH (TYPE K SOFT COPPER OR PE #3408) FROM THE CURB BOX TO THE METER.
- WATER METER(S)** SHALL BE LOCATED ON THE INTERIOR OF EXTERIOR WALLS IMMEDIATELY UPON SERVICE ENTRANCE INTO THE BUILDING(S). ON METERED SERVICES REQUIRING A 1 1/2-INCH OR LARGER METER A BYPASS AROUND THE METER IS REQUIRED.
- ALL GATE VALVES** SHALL HAVE STAINLESS STEEL BODY AND BONNET BOLTS.

3.3 TESTS:

- SOIL** - THE CONTRACTOR SHALL PROVIDE A SOIL TEST EVALUATION TO DETERMINE THE NEED FOR POLYETHYLENE ENCASEMENT PER ANSI/AWWA C105/A21 5-82 PRIOR TO WATER MAIN INSTALLATION. SOIL TESTING SHALL BE CONDUCTED BY AN APPROVED SOIL TESTING LABORATORY IN ACCORDANCE WITH WATER AUTHORITY STANDARDS.
- PRESSURE** - THE WATER MAIN SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE LATEST WATER AUTHORITY SPECIFICATION. A WATER AUTHORITY REPRESENTATIVE MUST WITNESS THIS TEST.
- HEALTH SAMPLE** - THE WATER MAIN SHALL BE DISINFECTED EQUAL TO AWWA STANDARD SPECIFICATIONS, DESIGNATION METHOD. AFTER FLUSHING AND DISINFECTING THE WATER MAIN, WATER SAMPLES SHALL BE COLLECTED FROM THE MAIN BY THE MONROE COUNTY HEALTH DEPARTMENT. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS. APPROVAL AND NOTIFICATION BY THE HEALTH DEPARTMENT MUST BE RECEIVED BEFORE THE MAIN IS PLACED IN SERVICE.

3.4 INSTALLATION:

- WATER MAINS AND ALL WATER SERVICE LINES** SHALL HAVE A MINIMUM OF FIVE FEET OF COVER FROM FINISHED GRADE IN LAWN AREAS AND A MINIMUM OF SIX FEET OF COVER FROM FINISHED GRADE IN PAVED AREAS.
- MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER PIPELINES** SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTIONS OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES, OR VAULTS.
- FIRE HYDRANT WEEP HOLES (DRAINS)** SHALL BE PLUGGED WHEN GROUND WATER IS ENCOUNTERED WITHIN SEVEN FEET OF THE FINISHED GRADE.
- ALL MECHANICAL JOINT FITTINGS (TEES, BENDS, PLUGS, ETC.)** SHALL BE BACKED WITH 2500 PSI CONCRETE THRUST BLOCKS.

3.5 DISINFECTION

- THE WATER MAIN SHALL BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS DESIGNATION C651 (LATEST REVISION). FOLLOWING DISINFECTION, THE WATER MAIN SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM.**

3.6 SAMPLING

- THE SAMPLING POINT(S)** MUST BE DECONTAMINATED BY FLAMING.
- FIRE HYDRANTS** ARE NOT ACCEPTABLE SAMPLING POINTS

3.7 PRIVATE SERVICES

- LOTS WITH PRIVATE SERVICES:** 33 (LOTS 201-213, 219-225, 227-233) EXCEPT LOTS 6 (LOTS 226, 317, 318, 336,337,338)
- THE MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH** MUST RECEIVE AT LEAST 48-HOUR ADVANCE NOTIFICATION REQUESTING SAMPLING SERVICES. SAMPLING WILL NOT BE PERFORMED PRIOR TO RECEIPT FROM A NEW YORK STATE LICENSED OR REGISTERED DESIGN PROFESSIONAL (ENGINEER, ARCHITECT OR LAND SURVEYOR) WITH A SPECIAL EXEMPTION UNDER SECTION 7206(N) OF THE EDUCATION LAW CERTIFYING THAT THE WATER SUPPLY IMPROVEMENTS, TESTING AND DISINFECTION PROCEDURES WERE COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS, REPORTS, SPECIFICATIONS AND ANY APPROVEMENTS. THE DEPARTMENT WILL COLLECT SAMPLES FOR FREE CHLORINE RESIDUAL, TOTAL COLIFORM, ESCHERICHIA COLI (E. COLI) AND TURBIDITY.

- THE WATER MAIN SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE MONROE COUNTY DEPARTMENT OF HEALTH.**

ABBREVIATIONS

ABBR.	TERM	ABBR.	TERM
A.C.E.	AS ORDERED BY ENGINEER	CS	LUMP SUM
ASPH.	ASPHALT	L	LEFT
AZ.	AZIMUTH	MR.	MAILBOX
B	BENCHMARK	M.O.	MIDDLE ORDIANATE
BM	BENCHMARK	M.O.M.	MONTHLY MONTH
C	CENTERLINE	M.O.S.	MONROE COUNTY GEODETIC SURVEY
CLF	CHAIN LINKED FENCE	M.L.	MANHOLE
C.D.	CLEAN-OUT	N.C.	NECESSARY
CONC.	CONCRETE	N.I.C.	NOT IN CONTRACT
CPP	CORRUGATED POLYETHYLENE PIPE	NIS	NOT TO SCALE
CSP	CORRUGATED STEEL PIPE	N.V.	NOW OR FORMERLY
CURB	CURB	PAVT.	PAVEMENT
CV	CURB BOX	PE	POLYETHYLENE PIPE
CY	CUBIC YARD	PP	PREFABRICATED POLYETHYLENE PIPE
D	DRAINAGE OF CURVE	PC	POINT OF CURVATURE
D.A.	DIAMETER	PI	POINT OF INTERSECTION
D.I.P.	DUCTILE IRON PIPE	PI	POINT OF TANGENCY
E.A.	EACH	P.V.C.	POINT OF VERTICAL CURVATURE
EN.	ENGINEER IN CHARGE	P.V.	POINT OF VERTICAL INTERSECTION
ELEV.	ELEVATION	PVT.	POINT OF VERTICAL TANGENCY
EP	EDGE OF PAVEMENT	PP	POWER POLE
ET	FINISH FLOOR = FINISH FLOOR ELEVATION	R	RADIUS
F	FINISH FLOOR = FINISH FLOOR ELEVATION	RCP	REINFORCED CONCRETE PIPE
FR	FRAME	RG	ROCHESER GAS AND ELECTRIC
FP	FINISH PAD = GARAGE FLOOR ELEVATION	R.O.W.	RIGHT-OF-WAY
G	GAS MAIN	RT	RIGHT
GAL	GALLON	SA	SANITARY TELEPHONE COMPANY
GR	GRAVEL	SA	SANITARY SEWER
G.R.	GUIDE RAIL	ST	STATION
HCL	HORIZONTAL CONTROL LINE	STY.	STORY
HYD.	HYDRANT	SV	SQUARE YARD
INV.	INVERT	T	TANGENT DISTANCE
L	LENGTH OR LENGTH OF CURVE	TGL	THEORETICAL GRADE LINE
L.F.	LINEAR FEET	TYP.	TYPICAL
LP	LIGHT POST (PRIVATE)	V.C.	VERTICAL CURVE
		VTP	VITRIFIED TILE PIPE
		W	CENTRAL ANGLE

EARTHWORK

- 1. PREPARATION** - PRIOR TO START OF EARTHWORK OPERATIONS THE CONTRACTOR SHALL COMPLETE THE FOLLOWING APPLICABLE ITEMS AS DEFINED BY CONTRACT DOCUMENTS:
 - SITE DEMOLITION** - REMOVAL AND DISPOSAL OFF-SITE IN A LEGAL MANNER, STRUCTURES, UTILITIES, PAVEMENTS, ETC.
 - CLEARING AND GRUBBING** - REMOVAL AND DISPOSAL OFF-SITE IN A LEGAL MANNER, TREES, BRUSH, STUMPS, ETC.
 - TOPSOIL STRIPPING** - STRIP AND STOCKPILE TOPSOIL FOR REUSE. EXCESS TOPSOIL MAY BE REMOVED FROM SITE WITH APPROVAL BY OWNER AND MUNICIPALITY.
- 2. RESPONSIBILITY** - THE CONTRACTOR IS RESPONSIBLE FOR:
 - ESTIMATE** - COMPLETION OF A QUANTITY TAKEOFF TO DETERMINE THE VOLUME OF CUT, FILL, AND TOPSOIL. COMPARE AND COORDINATE WITH INFORMATION PROVIDED BY THE DESIGN ENGINEER.
 - GRADE TOLERANCES** - ESTABLISHING DESIGN SUBGRADE ELEVATIONS TO WITHIN ONE TENTH OF ONE FOOT (0.10) IN PAVEMENT AREAS (INCLUDING WALKS) AND TO WITHIN THIRTY-THREE HUNDREDTHS OF ONE FOOT (0.33) FOR ALL REMAINING AREAS.
 - COMPACTION** - ACHIEVING THE SPECIFIED MINIMUM COMPACTION VALUES FOR EMBANKMENT/FILL AREAS. THE TERMS "FILL" AND EMBANKMENT" ARE INTERCHANGEABLE.
 - CUTS** - ONCE EXCAVATIONS ARE SHAPED TO THE DESIGN GRADES THE AREAS SHALL BE PROTECTED TO ASSURE THAT THE INTEGRITY OF THE MATERIAL IS NOT COMPROMISED BY CONSTRUCTION VEHICLES AND/OR IMPROPER DRAINAGE. AREAS DETERMINED BY CONTRACTOR TO BE NOT SUITABLE FOR SUBGRADE PLACEMENT SHALL BE IMMEDIATELY REPORTED WHEN THE SUBGRADE IS ESTABLISHED TO OWNER'S REPRESENTATIVE. STABILIZATION MEASURES FOR CUT AREAS MAY BE CONSIDERED BY OWNER'S REPRESENTATIVE AS A CHANGE TO THE BASE CONTRACT.

- 3. TESTING** - THE FOLLOWING MAXIMUM DRY DENSITIES SHALL BE ACHIEVED AS MEASURED BY THE MODIFIED PROCTOR METHOD ASTM D-1557:
 - 95% - 99% IN ALL FILL AREAS WITHIN THE R.O.W.
 - 95% UNDER PAVEMENTS, WALKS, AND IN STRUCTURAL FILL AREAS
 - 95% IN REMAINING AREASTHE AGREEMENT BETWEEN THE OWNER AND CONTRACTOR SHALL DEFINE THE NUMBER OF TESTS AND RESPONSIBILITY. WE RECOMMEND IN EMBANKMENT AREAS ONE PER LIFT AND/OR ONE PER 1,000 CUBIC YARDS.
- 4. LIFT THICKNESS** - THE MAXIMUM LIFT THICKNESS UNDER PAVEMENTS, WALKS, AND STRUCTURAL FILLS SHALL BE 12 INCHES. HAND OPERATED COMPACTION FILLS SHALL NOT EXCEED 6 INCHES.
- 5. PROOF ROLLING** - THE TOWN OF WEBSTER HIGHWAY DEPARTMENT SHALL BE NOTIFIED PRIOR TO A PROOF ROLL (I.E. LOADED TIRE WHEELER) OF SUBGRADE AREAS BEING PERFORMED PRIOR TO PLACEMENT OF SUBBASE MATERIALS. AREAS THAT "FAIL" SHALL BE REMOVED AND REPLACED TO ACHIEVE A PASSING SUBGRADE.
- 6. EXISTING SOIL CONDITIONS** - NO EXISTING SOIL INFORMATION HAS BEEN PROVIDED BY THE OWNER/ DEVELOPER. IT IS ASSUMED THAT SOILS ARE SUITABLE FOR CUTS AND FILLS. FOR PURPOSES OF DESIGN 12" OF TOPSOIL WAS ASSUMED TO BE PRESENT ON AVERAGE THROUGHOUT THE SITE.
- 7. DEWATERING** - THE CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING PRACTICES INCLUDING DRYING OF MATERIAL TO ACCOMPLISH COMPACTION IN FILL AREAS AND DEMONSTRATING SUITABILITY OF SUBGRADE.

EROSION CONTROL

- 1. CERTIFICATION** - THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), WHICH INCLUDES THE "GRADING PLAN", "EROSION CONTROL PLAN", "EROSION CONTROL NOTES", ALONG WITH THE "DRAINAGE REPORT", DEFINES AND MEETS THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) LATEST STORM WATER REGULATIONS.
- 2. CONTRACTOR RESPONSIBILITY** - ALL CONTRACTORS AND SUB-CONTRACTORS SHALL CERTIFY WITHIN THE SWPPP THAT THEY WILL IMPLEMENT AND MAINTAIN STORM WATER MANAGEMENT PRACTICES.
- 3. INSPECTION** - EROSION CONTROL (EC) MEASURES INSTALLED AND MAINTAINED BY THE SITE WORK CONTRACTOR ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE MUNICIPALITY, DESIGN ENGINEER, NYSDEC, AND OWNER'S REPRESENTATIVE. IMMEDIATE ACTION BY THE CONTRACTOR SHALL BE TAKEN IF ADDITIONAL OR CORRECTIVE MEASURES ARE REQUIRED BY ANY ONE OF THESE CITED REVIEWERS. EROSION CONTROL MEASURES NOT SPECIFICALLY SHOWN ON CONTRACT DRAWINGS (I.E., STRAW BALS, COLLARS, FABRICS, ETC.) SHALL BE INSTALLED AS WARRANTED BY FIELD CONDITIONS, AND AS DIRECTED BY THE AFOREMENTIONED REVIEWERS.
- 4. NOTIFICATION** - AS DESIGN ENGINEER, OUR OFFICE HAS NOTIFIED THE OWNER OF THE INSPECTION REQUIREMENTS UNDER GP-15-02. DISTURBANCES OF 1.0 ACRE OR GREATER REQUIRE THAT THE OWNER FILE A NOTICE OF INTENT (NOI) AND A SWPPP WITH THE NYSDEC UNDER STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) GENERAL PERMIT RFP-15-02. THE REGULATIONS REQUIRE THAT A LICENSED PROFESSIONAL COMPLETE A WEEKLY INSPECTION (THROUGHOUT THE PERIOD OF LAND DISTURBANCE).
- 5. PRE-CONSTRUCTION** - THE APPROPRIATE EROSION CONTROL MEASURES AS DEFINED BY THE CONSTRUCTION DOCUMENTS SHALL BE INSTALLED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
- 6. TOPSOIL** - UPON COMPLETION OF THE STOCKPILE STRIPPING OPERATION, STOCKPILES SHALL BE STABILIZED IN ACCORDANCE TO NYSDEC REGULATIONS.
- 7. SLOPES** - UPON COMPLETION OF GRADING, SLOPES WITH A GRADIENT OF ONE FOOT VERTICAL TO THREE FEET HORIZONTAL (1 ON 3) OR GREATER SHALL BE: TOPSOILED, SEEDED, FERTILIZED AND MULCHED. RILLS SHALL BE IMMEDIATELY ADDRESSED AND STABILIZED AS NEEDED WITH JUTE MESH OR REAPPLICATION OF MULCH.
- 8. DUST** - THE CONTRACTOR SHALL APPLY WATER AND/OR CALCIUM CHLORIDE, AS CONDITIONS WARRANT, TO CONTROL WIND BORN EROSION. THIS MEASURE APPLIES TO: HAUL ROADS, CUT AND FILL OPERATIONS, SUB-BASE AND ANY OTHER EXPOSED SURFACES.
- 9. OPERATION & MAINTENANCE** - THROUGHOUT THE PERIOD OF CONSTRUCTION AND PRIOR TO ESTABLISHING FINAL GROUND COVER THE CONTRACTOR IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE TEMPORARY EROSION CONTROL MEASURES. FOR EXAMPLE, THE SILTATION FACILITIES SHALL BE RE-EXCAVATED WHEN THE VOLUME (3600 CUBIC FEET/DISTURBED AREA) IS REDUCED BY ONE-HALF OR MORE OF ITS SPECIFIED CAPACITY AND/OR THE MATERIAL IS WITHIN ONE FOOT OF THE DISCHARGE POINT.
- 10. WORK STOPPAGE** - ALL DISTURBED AREAS NOT TO BE WORKED WITHIN 21 DAYS MUST BE SEEDED WITHIN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA.
- 11. SEQUENCE** - THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES IN THE FOLLOWING SEQUENCE UNLESS AUTHORIZED OTHERWISE BY THE PRE-CONSTRUCTION MEETING:
 - INSTALL PERIMETER SEDIMENT CONTROL (I.E. EROSION FENCING).
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE.
 - PROTECT VEGETATION TO REMAIN.
 - CLEAR/GRUB AND CONSTRUCT DIVERSIONARY SWALES, AND SEDIMENT BASINS.
 - COMPLETE CLEARING AND GRUBBING OPERATION.
 - PLACE EROSION CONTROL MEASURES AT TOPSOIL, STOCKPILES AND STRIP TOPSOIL.
 - CONSTRUCT SWALES AND SILTATION DEVICES AS EARTHWORK OPERATIONS PROGRESS.
 - MAINTAIN EROSION CONTROL MEASURES AND PLACE ADDITIONAL MEASURES AS EARTHWORK AND UNDERGROUND UTILITIES ARE CONSTRUCTED.
 - RESTORE AREAS AS DEFINED BY CONTRACT DOCUMENTS.
 - REMOVE EROSION CONTROL MEASURES AS AREAS ARE REESTABLISHED WITH GROUND COVER.ANY DEVIATION FROM THIS SEQUENCE SHALL BE COORDINATED WITH THE TOWN PRIOR TO IMPLEMENTATION. ANY ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES, SUCH AS DEWATERING EFFORTS, SHALL BE COORDINATED WITH THE TOWN PRIOR TO IMPLEMENTATION.

RESTORATION AND LANDSCAPING

- 1. GUARANTEE** - THE AGREEMENT BETWEEN THE OWNER AND CONTRACTOR SHALL DEFINE THE REQUIREMENTS, MAINTENANCE, AND TIME TO ESTABLISH NEW TURF AND LANDSCAPING ACCEPTANCE BY THE OWNER.
- 2. TOPSOIL** - PLACE A MINIMUM OF 6 INCHES (REQUIRED) OF TOPSOIL ON ALL DISTURBED SURFACES. FINE GRADE TO ESTABLISH THE DESIGN ELEVATIONS AND DRAINAGE PATTERNS. OBTAIN OWNER'S REPRESENTATIVE APPROVAL PRIOR TO SEEDING.
- 3. SEED** - LAWN AREAS SHALL BE HYDROSEED WITH AN APPROVED, SEED MIXTURE, MULCH, AND FERTILIZER. THE APPLICATION RATE SHALL BE DETERMINED BY CONTRACTOR TO ESTABLISH A "STAND" OF GRASS. THE CONTRACTOR SHALL SUBMIT MATERIAL AND APPLICATION SPECIFICATIONS TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO APPLICATION.

MONROE COUNTY DEPARTMENT OF TRANSPORTATION NOTES

- 1. PERMITS** - AFTER M.C.D.O.T. APPROVES THIS PROJECT, A 136 HIGHWAY PERMIT AND 239-F PERMIT WILL BE REQUIRED. INSPECTION OF ALL CONSTRUCTION IN THE RIGHT-OF-WAY WILL BE A CONDITION OF THESE PERMITS.
- 2. DRAINAGE** - HIGHWAY DRAINAGE ALONG THE COUNTY HIGHWAY MUST BE MAINTAINED. THE APPLICANT WILL BE RESPONSIBLE FOR ALL REQUIRED GRADING IN THE COUNTY RIGHT-OF-WAY. THE APPLICANT WILL PLACE A CULVERT AND/OR STORM SEWER OF A TYPE AND SIZE DETERMINED BY THE MONROE COUNTY DEPARTMENT OF TRANSPORTATION.
- 3. MATERIALS** - ALL MATERIALS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MONROE COUNTY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND DETAILS IN EFFECT WHEN INSTALLED.
- 4. UTILITY CROSSINGS** - ALL UTILITIES MUST BE BORED ACROSS THE COUNTY HIGHWAY, IF APPLICABLE. NO OPEN CUT IS ALLOWED.

EXISTING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SIGN		CENTERLINE OF SWALE
	LIGHT POLE		CONTOUR
	POWER POLE		DRAINAGE FLOW ARROW
	GAS MAIN & VALVE		SPOT ELEVATION
	ELECTRIC CONDUIT & STRUCTURE		TREE LINE
	TELEPHONE CONDUIT & STRUCTURE		PARKING SPACE COUNT
	CENTERLINE AND STATIONING		WETLAND LIMITS
	PROPERTY LINE		DECIDUOUS TREE
	RIGHT-OF-WAY		CONIFEROUS TREE
	CURB		BUSH/SHRUB
	FENCE (DESCRIPTION)		
	SANITARY SEWER WITH MANHOLE		
	STORM SEWER, MANHOLE & DROP INLET		
	WATER MAIN WITH HYDRANT & GATE VALVE		

PROPOSED LEGEND

SYMBOL	DESCRIPTION
	SIGN
	CENTERLINE AND STATIONING
	RIGHT-OF-WAY OR PROPERTY LINE
	CURB
	FENCE (DESCRIPTION)
	SANITARY SEWER WITH MANHOLE
	STORM SEWER, MANHOLE & DROP INLET
	WATER MAIN WITH HYDRANT & GATE VALVE
	CENTERLINE OF SWALE
	CONTOUR
	DRAINAGE FLOW ARROW
	SPOT ELEVATION
	TREE LINE
	TREE PROTECTION

TOWN OF WEBSTER

- ALL TAXES AND FEES ON LANDS TO BE DEDICATED TO THE TOWN ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL SAID DEDICATION OCCURS. THE TOWN WILL NOT RECEIVE DEDICATION OF ANY LANDS PRIOR TO A MINIMUM OF 80% OF THE BUILDING LOTS OBTAINING CERTIFICATES OF OCCUPANCY.
- PRIOR TO STARTING ANY WORK OR STAGING ANY MATERIAL FOR SECTION-3, THE DRAINAGE WAYS SHALL BE CLEANED OUT FROM SALT ROAD TO THE STORMWATER POND AS WELL AS THE DRAINAGE WAY ALONG THE WESTERN EDGE OF THE PROPERTY (ADJACENT TO THE SCHOOL PROPERTY).

MONROE COUNTY DEPARTMENT OF HEALTH REALITY SUBDIVISIONS CONDITIONS OF APPROVAL NOTES

- 1. THAT** THE PROPOSED FACILITIES FOR WATER SUPPLY AND SEWAGE DISPOSAL ARE INSTALLED IN CONFORMITY WITH SAID PLANS ON FILE WITH THE MONROE COUNTY DEPARTMENT OF HEALTH.
- 2. THAT** NO LOT OR REMAINING LAND (IF APPLICABLE) SHALL BE SUBDIVIDED WITHOUT PLANS FOR SUCH RESUBDIVISION BEING SUBMITTED TO AND APPROVED BY THE MONROE COUNTY DEPARTMENT OF HEALTH.
- 3. THAT** AN ORIGINAL SUBDIVISION MAP AS APPROVED THIS DATE SHALL BE FILED IN THE OFFICE OF THE CLERK OF MONROE COUNTY PRIOR TO OFFERING LOTS FOR SALE.
- 4. THAT** THE OWNER OF THE SUBDIVISION SHALL FURNISH EACH PURCHASER OF A LOT WITH A COPY OF THE APPROVED PLAN, OR IN THE CASE OF SALE OF DEVELOPED LOTS THE OWNER OF THE SUBDIVISION SHALL FURNISH EACH PURCHASER WITH ACCURATE "AS BUILT" PLAN DEPICTING ALL THE INSTALLED FACILITIES, INCLUDING SEWAGE, STORMWATER, AND WATER SUPPLY.
- 5. THAT** ADEQUATE EROSION / SILTATION CONTROL MEASURES SHALL BE EMPLOYED PRIOR TO AND DURING CONSTRUCTION. IF THE PROJECT WILL RESULT IN THE DISTURBANCE OF ONE ACRE OR MORE, COVERAGE UNDER THE NYSDEC SPDES GENERAL PERMIT 02-01 FOR STORMWATER DISCHARGES FOR CONSTRUCTION ACTIVITIES WILL BE OBTAINED.

MONROE COUNTY DEPT. OF TRANSPORTATION	
APPROVED:	DATE:
APPLICATIONS FOR PERMITS WILL NOW BE ACCEPTED THIS PROJECT APPROVAL IS VALID FOR TWO (2) YEARS	
APPROVED BY: WEBSTER SEWER DISTRICT DATE:	APPROVED BY: DIRECTOR OF COMMUNITY DEVELOPMENT DATE:
APPROVED BY: MONROE COUNTY WATER AUTHORITY DATE:	APPROVED BY: FIRE MARSHAL DATE:
APPROVED BY: TOWN ENGINEER DATE:	APPROVED BY: HIGHWAY SUPERINTENDENT DATE:
APPROVED BY: TOWN ENGINEER DATE:	APPROVED BY: PLANNING BOARD CHAIRMAN DATE:

MARATHON ENGINEERING
ROCHESTER LOCATION
39 CASCADE DRIVE
ROCHESTER, NY 14614
585-459-7770
ITHACA LOCATION
840 HANSHAW RD, STE 6
ITHACA, NY 14850
607-241-2917
www.marathoneng.com

Monroe County Department of Public Health
These plans for Public Sanitary Sewer Extension / Improvement are hereby approved pursuant to Article 17 of the NYS Environmental Conservation Law subject to conditions of Approval
Director of Public Health
By: *Thomas S. ...* Date: _____
Public Health Engineer Date

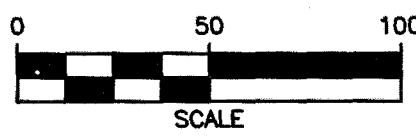
Monroe County Department of Public Health
These plans for Public Water System Extension / Improvement are hereby approved pursuant to Article 17 of the NYS Environmental Conservation Law subject to conditions of Approval
Director of Public Health
By: *Thomas S. ...* Date: _____
Public Health Engineer Date

APPROVED BY: _____
TOWN ASSESSOR
DATE: _____
APPROVED BY: _____
TOWN ENGINEER
DATE: _____

APPROVED BY: _____
HIGHWAY SUPERINTENDENT
DATE: _____
APPROVED BY: _____
PLANNING BOARD CHAIRMAN
DATE: _____

APPROVED BY: _____
WEBSTER SEWER DISTRICT
DATE: _____
APPROVED BY: _____
MONROE COUNTY WATER AUTHORITY
DATE: _____

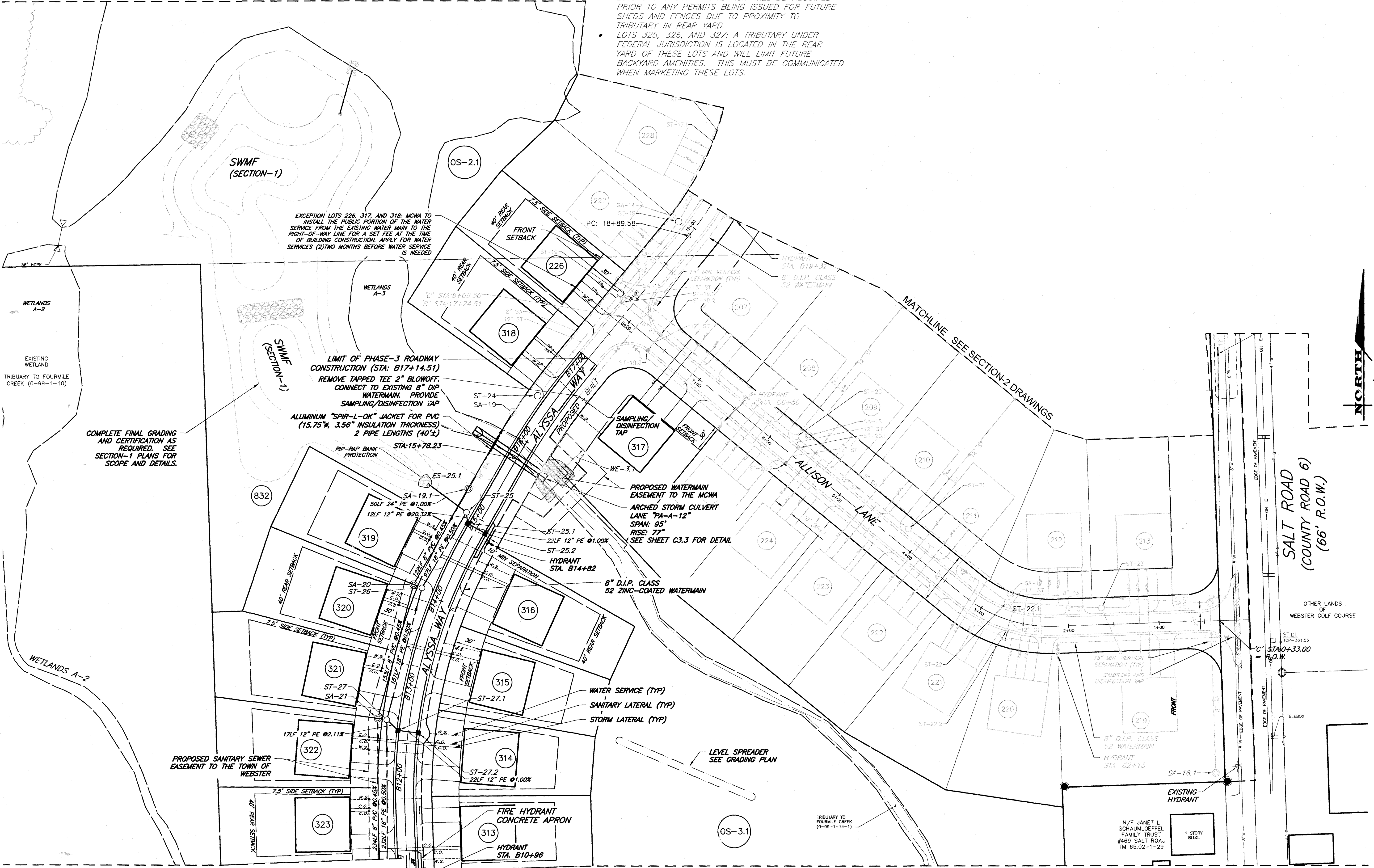
APPROVED BY: _____
DIRECTOR OF COMMUNITY DEVELOPMENT
DATE: _____
APPROVED BY: _____
FIRE MARSHAL
DATE: _____



MATCHLINE SEE SECTION-2 DRAWINGS

NOTES:

- LOTS 316 + 317: A SITE VISIT WILL BE REQUIRED PRIOR TO ANY PERMITS BEING ISSUED FOR FUTURE SHEDS AND FENCES DUE TO PROXIMITY TO TRIBUTARY IN REAR YARD.
- LOTS 325, 326, AND 327: A TRIBUTARY UNDER FEDERAL JURISDICTION IS LOCATED IN THE REAR YARD OF THESE LOTS AND WILL LIMIT FUTURE BACKYARD AMENITIES. THIS MUST BE COMMUNICATED WHEN MARKETING THESE LOTS.



NOTE:
SEE SHEET C3.3 FOR STRUCTURE SCHEDULES

MATCHLINE SEE SECTION-2 DRAWINGS

MARATHON
ENGINEERING
ROCHESTER LOCATION
39 CASCADE DRIVE
ROCHESTER, NY 14614
585-458-7770
ITHACA LOCATION
840 HANSHAW RD, STE 6
ITHACA, NY 14850
607-241-2917
www.marathoneng.com

FINAL SECTION 3 PLANS
for
WESTWOOD ESTATES
SUBDIVISION

STATE OF NEW YORK
TOWN OF WEBSTER
MONROE COUNTY
451 SALT ROAD

JOB NO: 0761-23
SCALE: 1" = 50'
DRAWN: PBG
DESIGNED: RPB
DATE: 04/16/2024

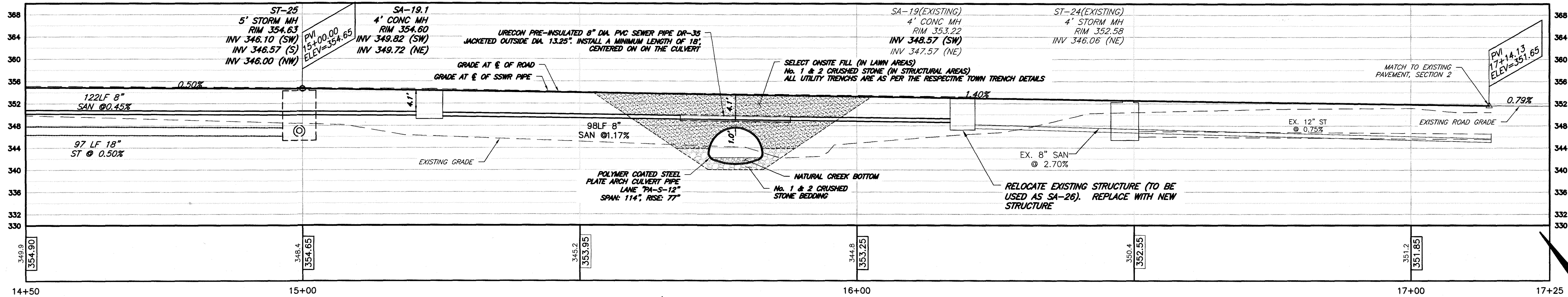
REVISIONS		
DATE	BY	REVISION
05/15/24	PG	TOWN OF WEBSTER AND MCDOT COMMENTS
06/20/24	PG	PRE-MYLAR REVIEW
08/21/24	PG	ISSUED FOR SIGNATURE

STATE OF NEW YORK
ROBERT P. BRINGLEY
Professional Engineer
No. 066924
EXPIRATION DATE 12/31/2025
ROBERT P. BRINGLEY

DRAWING TITLE:
UTILITY PLAN

05 of 16
SHEET No: **C3.1**
0761-23
JOB No: DRAWING No:

File: z:\engineering\job_files\10761-16\Drawings\section 3\10761-23 Culvert disturbance.dwg, Last saved: 8/21/2024, Plot Date: 8/21/2024, By: POORMAN, Plot Style: MARATHON STANDARD.CTB



STORM STRUCTURE TABLE		
NAME & DESCRIPTION	STATION & OFFSET	DETAILS
ST-25 5' STORM MH	14+50.43 -18.50L	RIM = 354.63 INV 18"=346.10 (SW) INV 12"=346.57 (S) INV 24"=346.00 (NW)
ST-26 4' CONC MH	14+05.62 -25.00L	RIM = 355.27 INV 18"=346.68 (S) INV 12"=346.87 (SE) INV 18"=347.44 (N)
ST-27 4' CONC MH	12+60.74 -25.00L	RIM = 355.98 INV 18"=347.54 (S) INV 12"=348.08 (SE) INV 18"=347.44 (N)
ST-28 4' CONC MH	10+34.34 -25.00L	RIM = 357.11 INV 18"=348.79 (S) INV 12"=351.96 (E) INV 18"=348.69 (N)
ST-29 4' CONC MH	8+14.62 -25.00L	RIM = 358.21 INV 18"=348.79 (S) INV 12"=351.96 (E) INV 18"=348.69 (N)
ST-30 4' CONC MH	5+94.91 -25.00L	RIM = 359.31 INV 18"=351.17 (SE) INV 12"=353.03 (SE) INV 18"=351.93 (NW)
ST-31 4' CONC MH	4+48.43 -18.50L	RIM = 359.91 INV 18"=352.03 (SE) INV 12"=354.09 (E) INV 18"=351.93 (NW)
ST-32 4' CONC MH	2+14.53 -17.50L	RIM = 361.10 INV 18"=353.27 (SE) INV 12"=355.94 (SE) INV 18"=353.17 (NW)
ST-33 4' CONC MH	1+13.11 -17.50L	RIM = 362.57 INV 18"=355.71 (NW)

STORM INLET TABLE		
NAME & DESCRIPTION	STATION	DETAILS
ST-25.1 2" SQ INLET	14+89	RIM = 354.11 INV 12"=349.08 (SE) INV 12"=349.08 (N)
ST-25.2 2" SQ INLET	14+89	RIM = 354.36 INV 12"=349.30 (NW)
ST-27.1 2" SQ INLET	12+51	RIM = 355.31 INV 12"=350.23 (E) INV 12"=350.23 (NW)
ST-27.2 2" SQ INLET	12+51	RIM = 355.56 INV 12"=350.46 (W)
ST-28.1 2" SQ INLET	10+13	RIM = 356.75 INV 12"=351.45 (E) INV 12"=351.45 (NW)
ST-28.2 2" SQ INLET	10+13	RIM = 356.75 INV 12"=351.45 (W)
ST-29.1 2" SQ INLET	8+05	RIM = 357.79 INV 12"=352.46 (NE) INV 12"=352.46 (W)
ST-29.2 2" SQ INLET	8+05	RIM = 357.79 INV 12"=352.46 (SW)
ST-30.1 2" SQ INLET	5+85	RIM = 358.88 INV 12"=353.54 (NE) INV 12"=353.54 (W)
ST-30.2 2" SQ INLET	5+85	RIM = 358.88 INV 12"=353.54 (SW)
ST-31.1 2" SQ INLET	4+27	RIM = 359.99 INV 12"=354.78 (NE) INV 12"=354.78 (W)
ST-31.2 2" SQ INLET	4+27	RIM = 359.99 INV 12"=355.00 (SW)
ST-32.1 2" SQ INLET	1+98	RIM = 360.94 INV 12"=356.08 (NE) INV 12"=356.08 (NW)
ST-32.2 2" SQ INLET	1+98	RIM = 360.94 INV 12"=356.30 (SW)

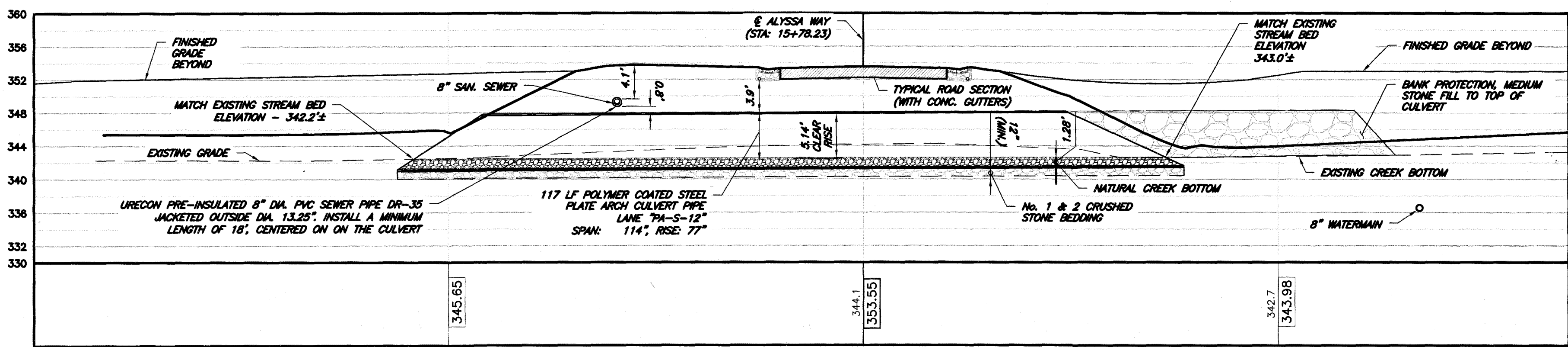
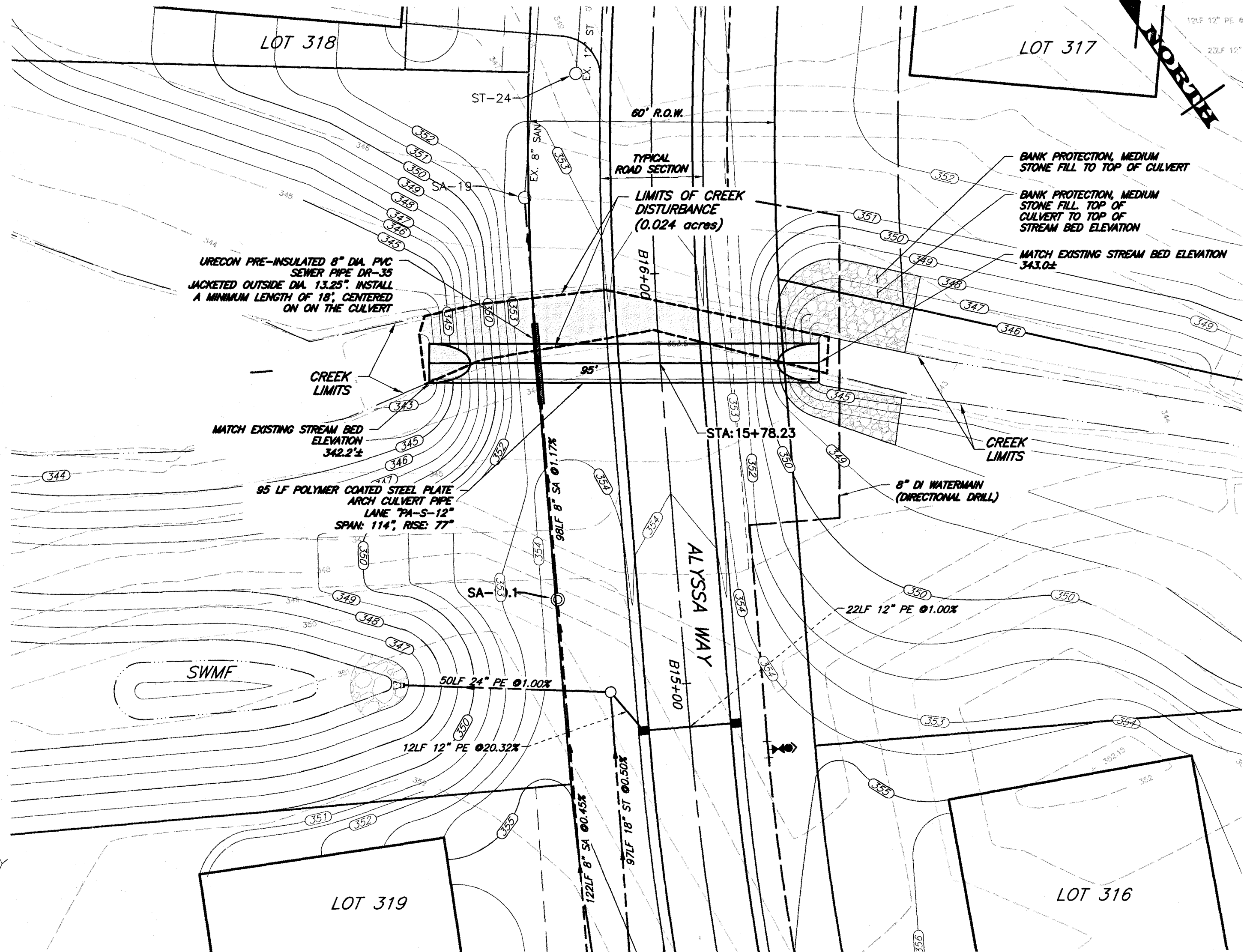
END SECTION TABLE	
NAME	INVERT
ES-25.1	INV = 345.50'
ES-34.1	INV = 356.30'
ES-34.2	INV = 356.47'
ES-34.3	INV = 357.20'
ES-34.4	INV = 357.33'
ES-34.5	INV = 358.30'

SANITARY STRUCTURE TABLE		
NAME & DESCRIPTION	STATION & OFFSET	DETAILS
SA-19.1 4' CONC MH	3+23.26 -979.95L	RIM = 354.60 INV 8"=349.82 (SW) INV 8"=349.72 (NE)
SA-20 4' CONC MH	14+05.62 -35.00L	RIM = 355.63 INV 8"=350.37 (S) INV 8"=350.37 (NE)
SA-21 4' CONC MH	12+60.74 -35.00L	RIM = 356.29 INV 8"=351.16 (S) INV 8"=351.16 (NE)
SA-22 4' CONC MH	10+34.34 -35.00L	RIM = 357.42 INV 8"=352.31 (S) INV 8"=352.31 (N)
SA-23 4' CONC MH	8+14.62 -35.00L	RIM = 358.52 INV 8"=353.48 (SE) INV 8"=353.35 (N)
SA-24 4' CONC MH	5+94.91 -35.00L	RIM = 359.62 INV 8"=354.59 (SE) INV 8"=354.49 (NW)
SA-25 4' CONC MH	4+48.43 -28.50L	RIM = 360.11 INV 8"=355.38 (SE) INV 8"=355.28 (NW)
SA-26 4' CONC MH	2+12.45 -27.50L	RIM = 361.32 INV 8"=356.50 (S) INV 8"=356.40 (NW)
SA-27 4' CONC MH	1+06.92 -27.50L	RIM = 362.87 INV 8"=358.88 (N)

SECTION-3 STRUCTURE TABLES

CULVERT INSTALLATION NOTES:

- THE INSULATION ON THE PRE-INSULATED PIPE SHALL BE NOT LESS THAN 2" (2.625" SPECIFIED). THE OUTER JACKET SHALL BE 1.9MM (75 MILS).
- A 5-YEAR MAINTENANCE BOND SHALL BE PROVIDED TO THE TOWN OF WEBSTER BY THE DEVELOPER FOR THE SANITARY SEWER INSTALLATION BETWEEN MANHOLE SA-19 AND SA-19.1.
- A CERTIFIED MANUFACTURER'S REPRESENTATIVE SHALL BE ONSITE TO OBSERVE THE INSTALLATION OF THE INSULATED SANITARY SEWER SECTION.
- NO HEAT TRACING SHALL BE INSTALLED FOR THE INSULATED SANITARY SEWER SECTION.
- DETECTABLE WARNING TAPE SHALL BE INSTALLED ABOVE THE SANITARY SEWER BETWEEN SA-19 AND SA-19.1.
- CULVERT PIPE INSTALLATION BY MANUFACTURER (LANE ENTERPRISES INC).
- BACKFILL AND ROADWAY INSTALLATION BY CONTRACTOR.
- INSTALLATION OF CULVERT TO BE IN ACCORDANCE WITH ENGINEERED DRAWING PROVIDED BY LANE ENTERPRISES AND WILL BE PROVIDED TO THE TOWN FOR REVIEW PRIOR TO INSTALLATION.
- DISTURBANCE PERMITTED UNDER USACOE NATIONWIDE PERMIT #14 AND #58 UNDER TRANSMITTAL LRB-2019-00198 AND PROVIDED ON 04/04/2024.



CULVERT CROSS SECTION
SCALE: 1" = 10'H, 1" = 10'V

Monroe County Department of Public Health
These plans for Public Sanitary Sewer Extension / Improvement are hereby approved pursuant to Article 17 of the NYS Environmental Conservation Law subject to conditions of Approval
Director of Public Health

By Public Health Engineer Date

APPROVED BY:
HIGHWAY SUPERINTENDENT
DATE:

APPROVED BY:
PLANNING BOARD CHAIRMAN
DATE:

Monroe County Department of Public Health
These plans for Public Water System Extension / Improvement are hereby approved pursuant to 10NYCRRS of the State Sanitary Code subject to conditions of Approval
Director of Public Health

By Public Health Engineer Date

APPROVED BY:
WEBSTER SEWER DISTRICT
DATE:

APPROVED BY:
MONROE COUNTY WATER AUTHORITY
DATE:

APPROVED BY:

TOWN ASSESSOR
DATE:

APPROVED BY:

TOWN ENGINEER
DATE:

APPROVED BY:
DIRECTOR OF COMMUNITY DEVELOPMENT
DATE:

APPROVED BY:
FIRE MARSHAL
DATE:

MARATHON
ENGINEERING
ROCHESTER LOCATION
39 CASCADE DRIVE
ROCHESTER, NY 14614
585-458-7770
ITHACA LOCATION
840 HANSHAW RD, STE 6
ITHACA, NY 14850
607-241-2917
www.marathoneng.com

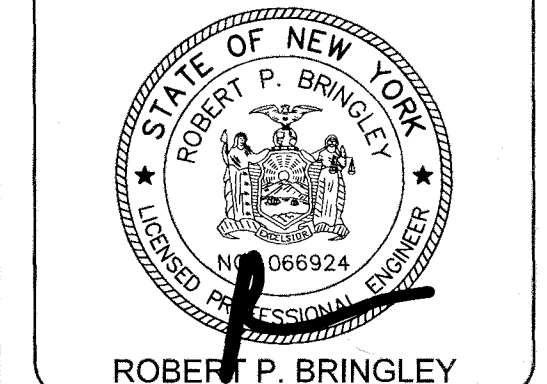
FINAL SECTION 3 PLANS
for
WESTWOOD ESTATES
SUBDIVISION
451 SALT ROAD
MONROE COUNTY
TOWN OF WEBSTER
STATE OF NEW YORK

JOB NO: 0761-23
SCALE: 1" = 50'
DRAWN: PBG
DESIGNED: RPB
DATE: 04/16/2024

REVISIONS		
DATE	BY	REVISION
05/15/24	PG	TOWN OF WEBSTER AND MCDOT COMMENTS
06/20/24	PG	PRE-MYLAR REVIEW
08/21/24	PG	ISSUED FOR SIGNATURE

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 12, SECTION 203(1)(b) FOR ANY PERSON OTHER THAN THE DESIGNER OF THESE PLANS TO REPRODUCE OR TRANSMIT THESE PLANS IN ANY MANNER, INCLUDING THE SALE OF A PROFESSIONAL PRINTING OR A SERVICE, WITHOUT THE WRITTEN PERMISSION OF THE DESIGNER. THE SIGNATURE OF THE DESIGNER OF THESE PLANS IS REQUIRED TO BE PLACED ON THE DRAWING AND THE DESIGNER'S FIRM IS REQUIRED TO BE PLACED ON THE DRAWING.

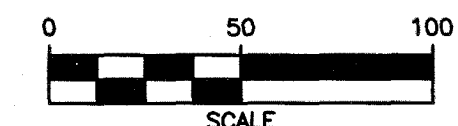
COPYRIGHT © 2024 MARATHON ENG.



DRAWING TITLE:
CULVERT PLAN AND STRUCTURE SCHEDULE

07 of 16
SHEET No: **C3.3**
0761-23
JOB No: DRAWING No:

MATCHLINE SEE SHEET C4.1



FINAL SECTION 3 PLANS
for
WESTWOOD ESTATES
SUBDIVISION

451 SALT ROAD
MONROE COUNTY

TOWN OF WEBSTER

STATE OF NEW YORK

REVISIONS		
DATE	BY	REVISION
05/15/24	PG	TOWN OF WEBSTER AND MCDOT COMMENTS
06/20/24	PG	PRE-MYLAR REVIEW
08/21/24	PG	ISSUED FOR SIGNATURE

STATE OF NEW YORK
ROBERT P. BRINGLEY
LICENSED PROFESSIONAL ENGINEER
NO. 066924
ROBERT P. BRINGLEY

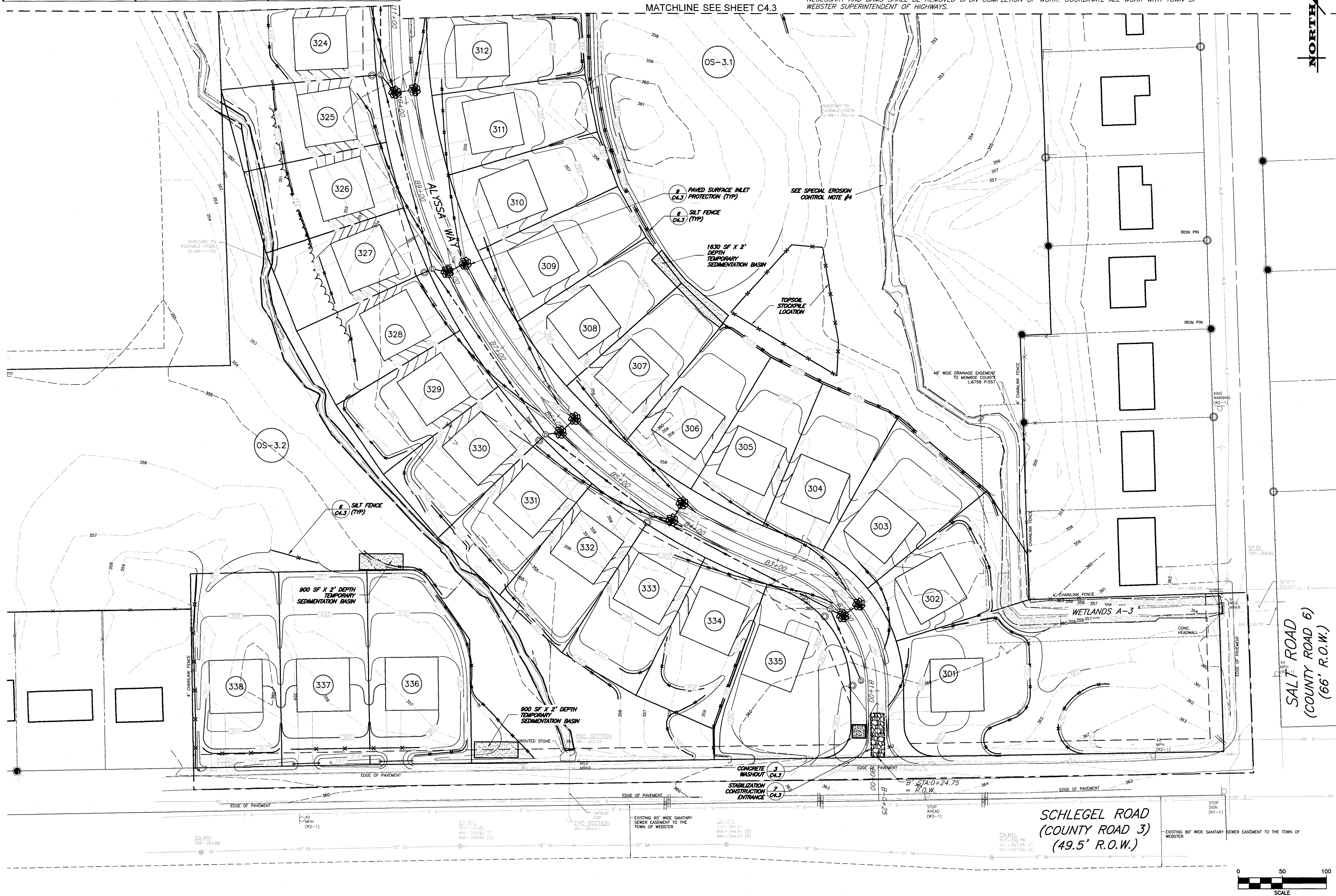
09 of 16	C4.2
SHEET No:	
0761-23	DRAWING No:
JOB No:	



File: z:\engineering\job_files\0761-16\Drawings\section 3\Sheets\c4.x.dwg, Last saved: 8/21/2024, Plot Date: 8/21/2024, By: PCORMAN, Plot Style: MARATHON STANDARD.CTB

APPROVED BY: _____ TOWN ASSESSOR DATE: _____	APPROVED BY: _____ HIGHWAY SUPERINTENDENT DATE: _____	APPROVED BY: _____ DIRECTOR OF COMMUNITY DEVELOPMENT DATE: _____	MONROE COUNTY DEPT. OF TRANSPORTATION APPROVED: _____ DATE: _____ APPLICATIONS FOR PERMITS WILL NOW BE ACCEPTED THIS PROJECT APPROVAL IS VALID FOR TWO (2) YEARS
APPROVED BY: _____ TOWN ENGINEER DATE: _____	APPROVED BY: _____ PLANNING BOARD CHAIRMAN DATE: _____	APPROVED BY: _____ FIRE MARSHAL DATE: _____	

SPECIAL EROSION CONTROL NOTES:
1. ANY DEVIATION FROM THE PROPOSED SEQUENCE OF CONSTRUCTION SHALL BE COORDINATED WITH THE TOWN.
2. ALL SILT FENCE ADJACENT TO TRIBUTARIES OR WETLANDS SHALL BE INSTALLED AS A DOUBLE ROW.
3. DEWATERING FOR THE CULVERT INSTALLATION SHALL INCLUDE DOWNSTREAM AND UPSTREAM CHECK DAMS WITH SUMP PIT FILLED WITH CLEAN STONE AND PUMPS OPERATED AS NECESSARY FOR THE EXCAVATION WORK. IF ANY SEDIMENT IS VISIBLE IN THE PUMP DISCHARGE THEN DISCHARGE SHALL BE ROUTED THROUGH STORMWATER MANAGEMENT FACILITY.
4. DRAINAGEWAYS SHALL BE CLEANED PRIOR TO STARTING WORK OR STAGING MATERIAL. SCOPE OF WORK INCLUDES: CLEARING DEBRIS AND BLOCKAGES FROM SALT ROAD TO THE PONDS PER PRC COMMENT 15, DATED 06/26/24. EQUIPMENT SHALL PERFORM WORK FROM OUTSIDE OF THE DRAINAGE WAY, ALL REMOVED MATERIAL SHALL BE DISPOSED OF OUTSIDE THE CHANNEL. CONTRACTOR SHALL PROVIDE FOR SEDIMENT MITIGATION VIA TEMPORARY CHECK DAMS AS NECESSARY AND DAMS SHALL BE REMOVED UPON COMPLETION OF WORK. COORDINATE ALL WORK WITH TOWN OF WEBSTER SUPERINTENDENT OF HIGHWAYS.



MARATHON
ENGINEERING
ROCHESTER LOCATION
39 CASCADE DRIVE
ROCHESTER, NY 14614
585-458-7770
ITHACA LOCATION
840 HANSHAW RD, STE 6
ITHACA, NY 14850
607-241-2917
www.marathoneng.com

FINAL SECTION 3 PLANS
for
**WESTWOOD ESTATES
SUBDIVISION**

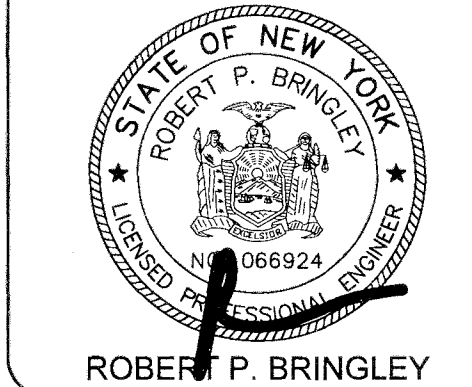
STATE OF NEW YORK
MONROE COUNTY
TOWN OF WEBSTER

JOB NO: 0761-23
SCALE: 1"=50'
DRAWN: RJT
DESIGNED: RPB
DATE: 04/16/2024

REVISIONS		
DATE	BY	REVISION
05/15/24	PG	TOWN OF WEBSTER AND MCDOT COMMENTS
06/20/24	PG	PRE-MYLAR REVIEW
08/21/24	PG	ISSUED FOR SIGNATURE

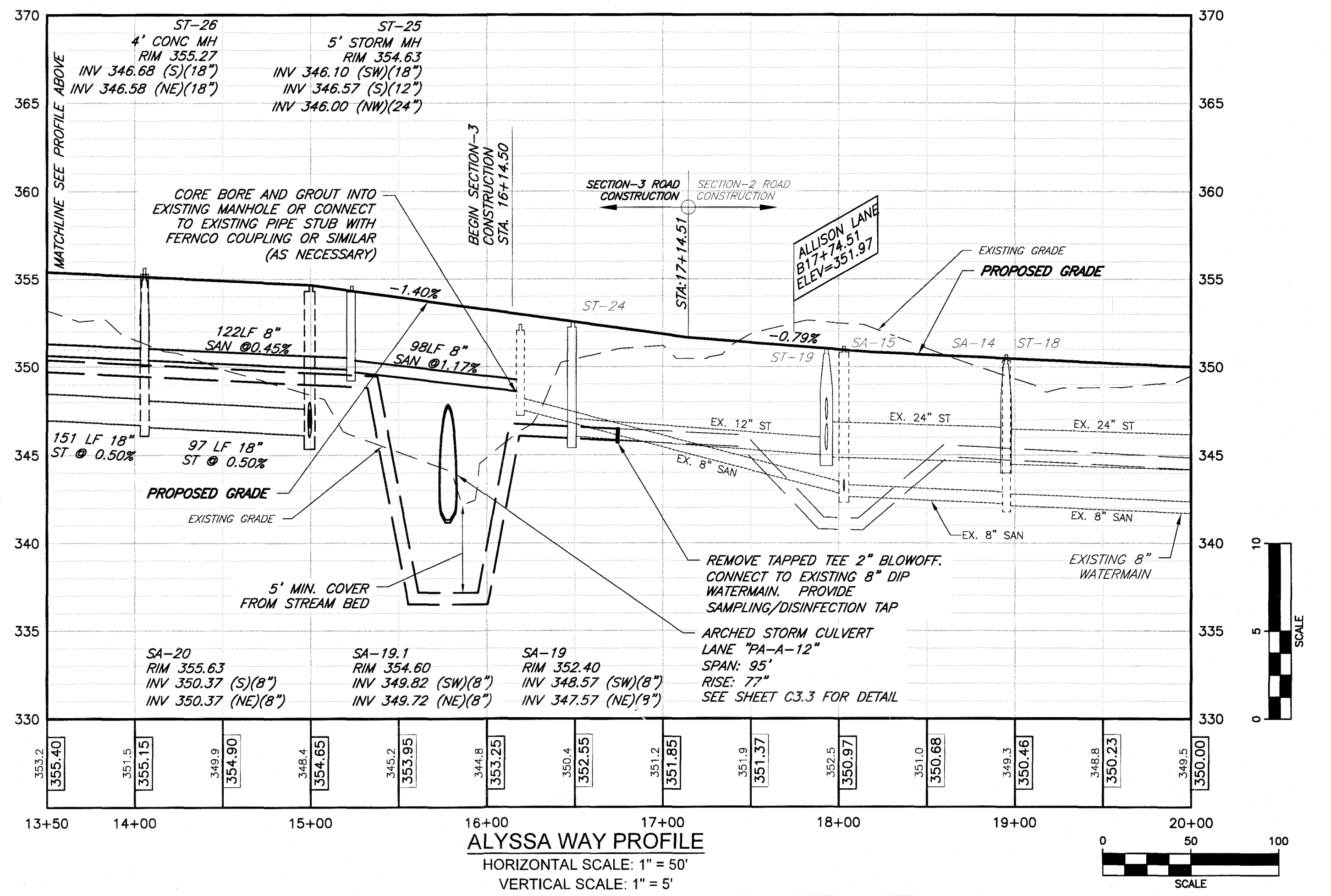
IT IS A VIOLATION OF ANY STATE OR FEDERAL LAW, OR ANY LOCAL ORDINANCE, TO REPRODUCE OR TRANSMIT THIS DRAWING OR ANY PART THEREOF IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF MARATHON ENGINEERING. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF MARATHON ENGINEERING IS PROHIBITED. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF MARATHON ENGINEERING IS PROHIBITED.

COPYRIGHT © 2024 MARATHON ENG.

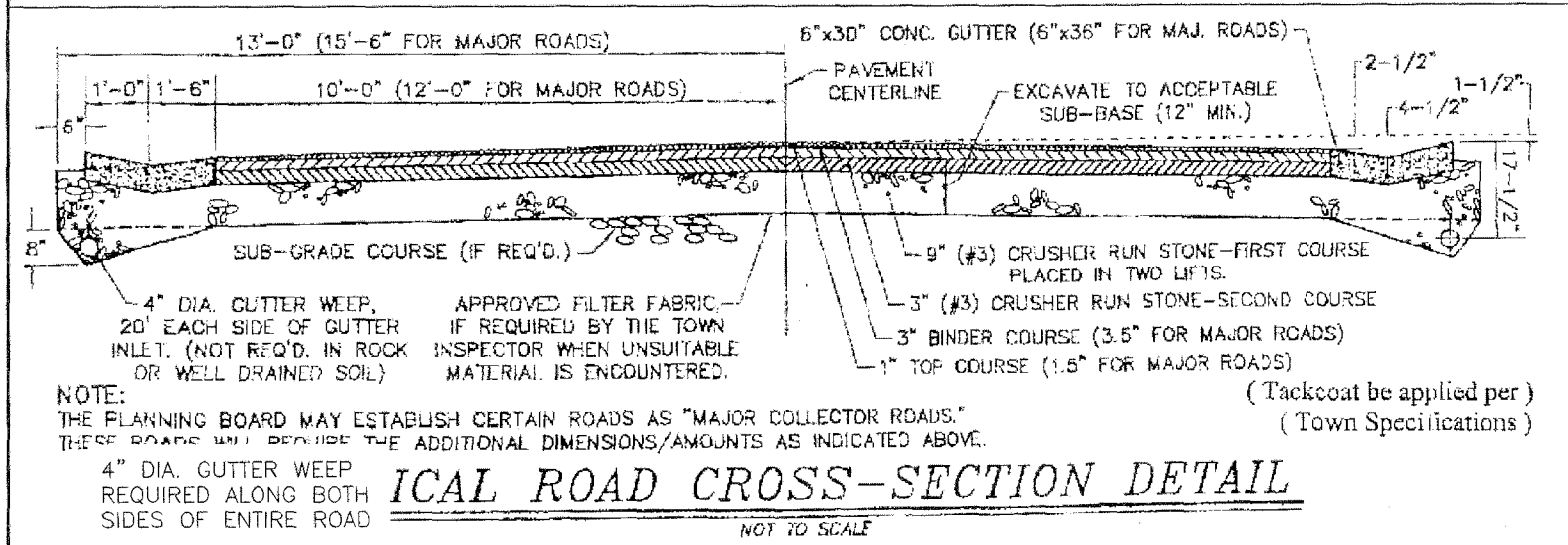


DRAWING TITLE:
**EROSION
CONTROL PLAN**

11 of 16
SHEET NO: **C4.4**
0761-23
JOB No: DRAWING No:



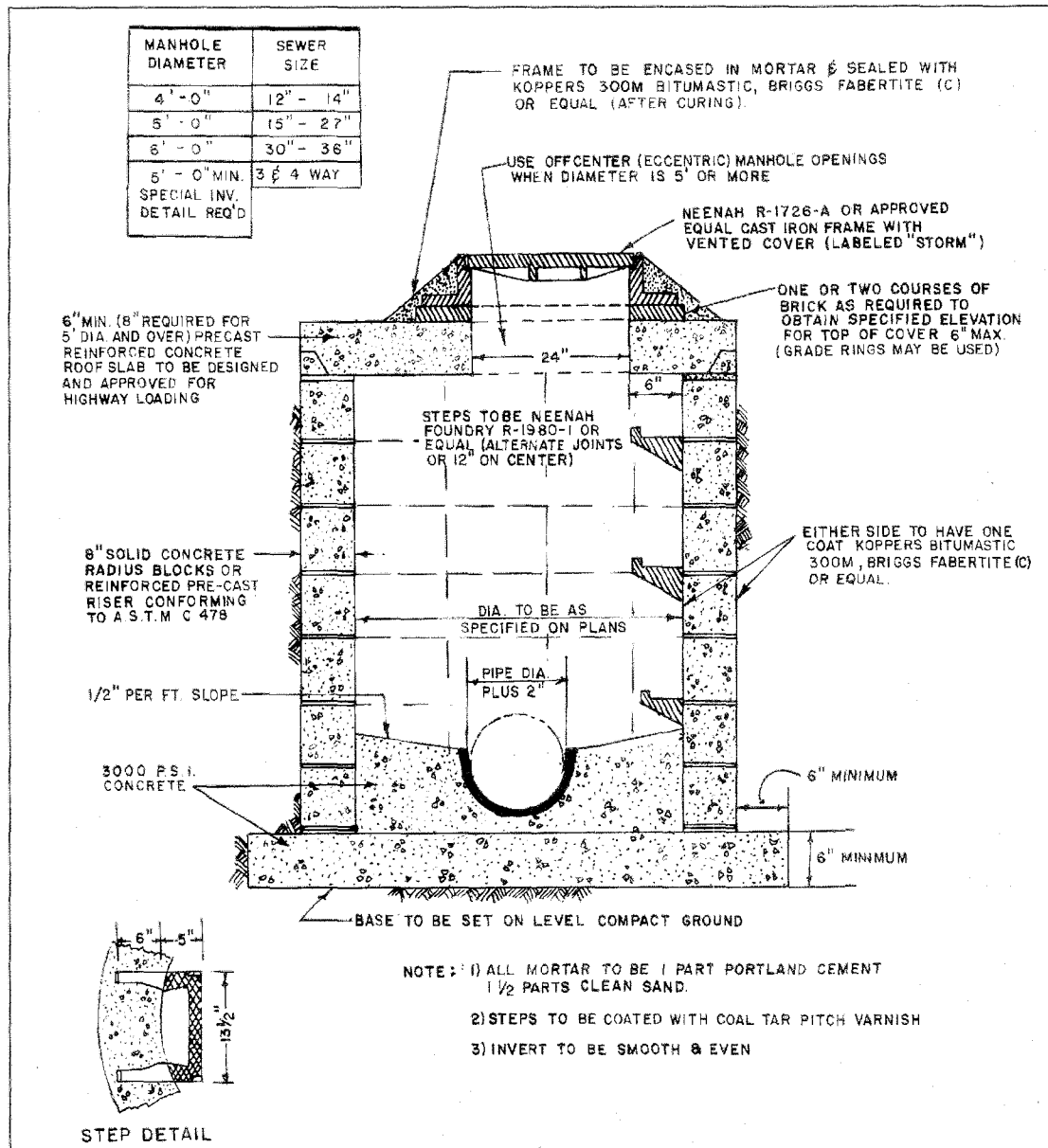
File: z:\engineering\job_files\0761-16\Drawings\section 3\Sheets\CSX.dwg, Last saved: 8/21/2024, Plot Date: 8/21/2024, Plot Style: MARATHON STANDARD.CTB



Designed By: DBH
Drawn By: DBH
Approved By: DBH
Date: 12-25-98
Scale: NONE

TOWN OF WEBSTER
1000 RIDGE ROAD,
WEBSTER, N.Y. 14580 PHONE (716) 872-1000

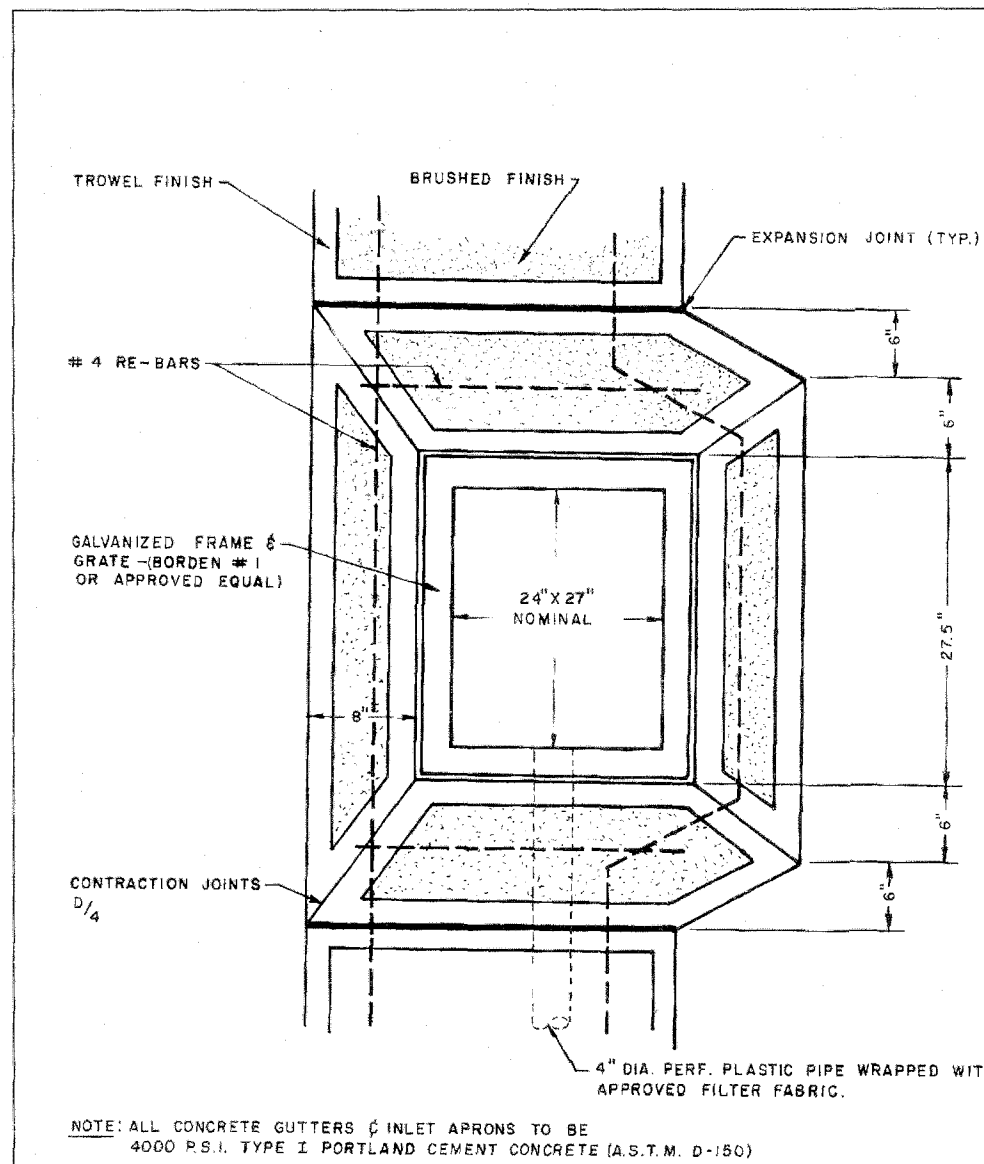
TYPICAL ROAD CROSS SECTION
TOWN OF WEBSTER



Designed By: M.W.B.
Drawn By: M.W.B.
Approved By: M.W.B.
Date: 11-15-94
Scale: NONE

TOWN OF WEBSTER
1000 RIDGE ROAD,
WEBSTER, N.Y. 14580 PHONE (716) 872-1000

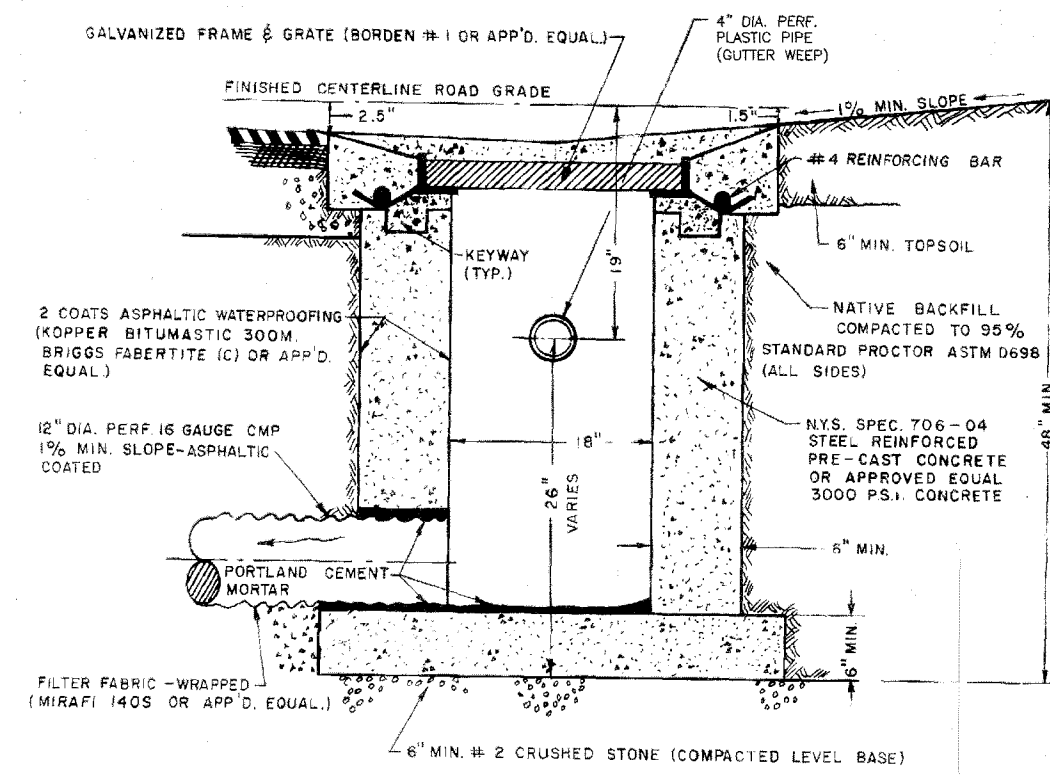
STORM MANHOLE
DETAIL



Designed By: M.W.B.
Drawn By: M.M.R.
Approved By: M.M.R.
Date: 3-3-95
Scale: NONE

TOWN OF WEBSTER
1000 RIDGE ROAD,
WEBSTER, N.Y. 14580 PHONE (716) 872-1000

GUTTER & CATCH
BASIN DETAIL
SH. 2 OF 2

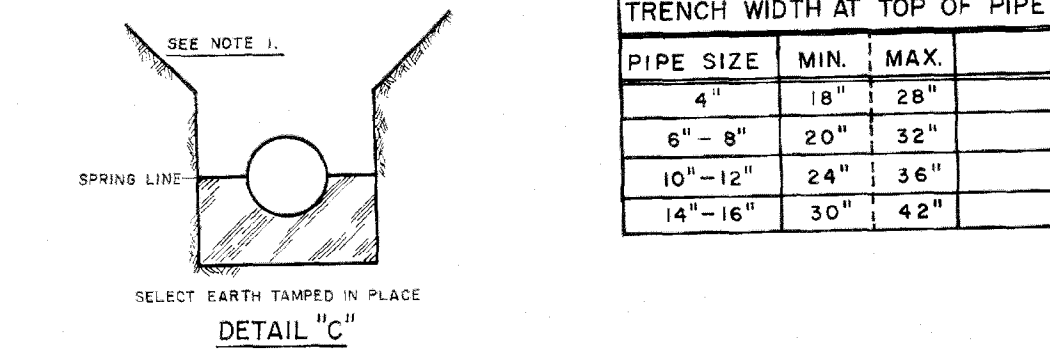
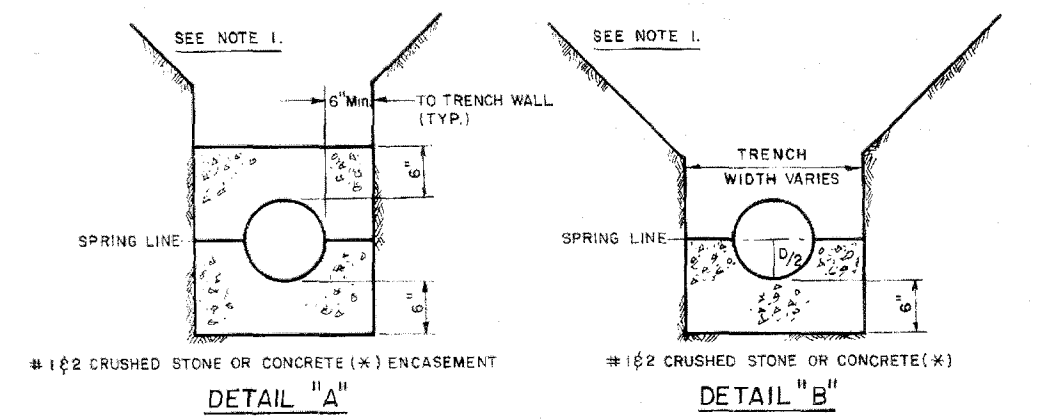


NOTE: 1. TOWN INSPECTOR MAY REQUIRE SELECT OR IMPORTED BACKFILL IF FIELD CONDITIONS NECESSITATE.

Designed By: M.W.B.
Drawn By: M.M.R.
Approved By: M.M.R.
Date: 2-4-95
Scale: NONE

TOWN OF WEBSTER
1000 RIDGE ROAD,
WEBSTER, N.Y. 14580 PHONE (716) 872-1000

GUTTER & CATCH
BASIN DETAIL
SH. 1 OF 2



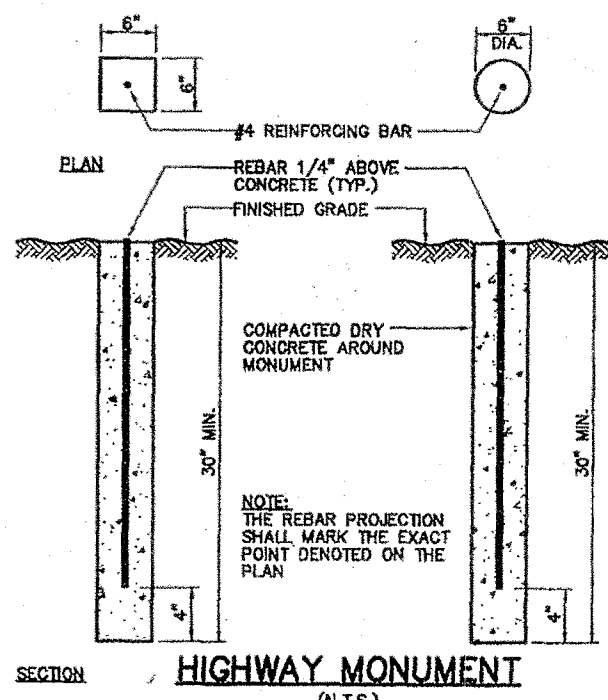
TRENCH WIDTH AT TOP OF PIPE			
PIPE SIZE	MIN.	MAX.	
4"	18"	28"	
6" - 8"	20"	32"	
10" - 12"	24"	36"	
14" - 16"	30"	42"	

NOTES:
* WHEN CALLED FOR, CONCRETE SHALL HAVE A MIN. STRENGTH OF 3000 P.S.I.
1. SELECT FILL COMPACTED IN 6" LIFTS.

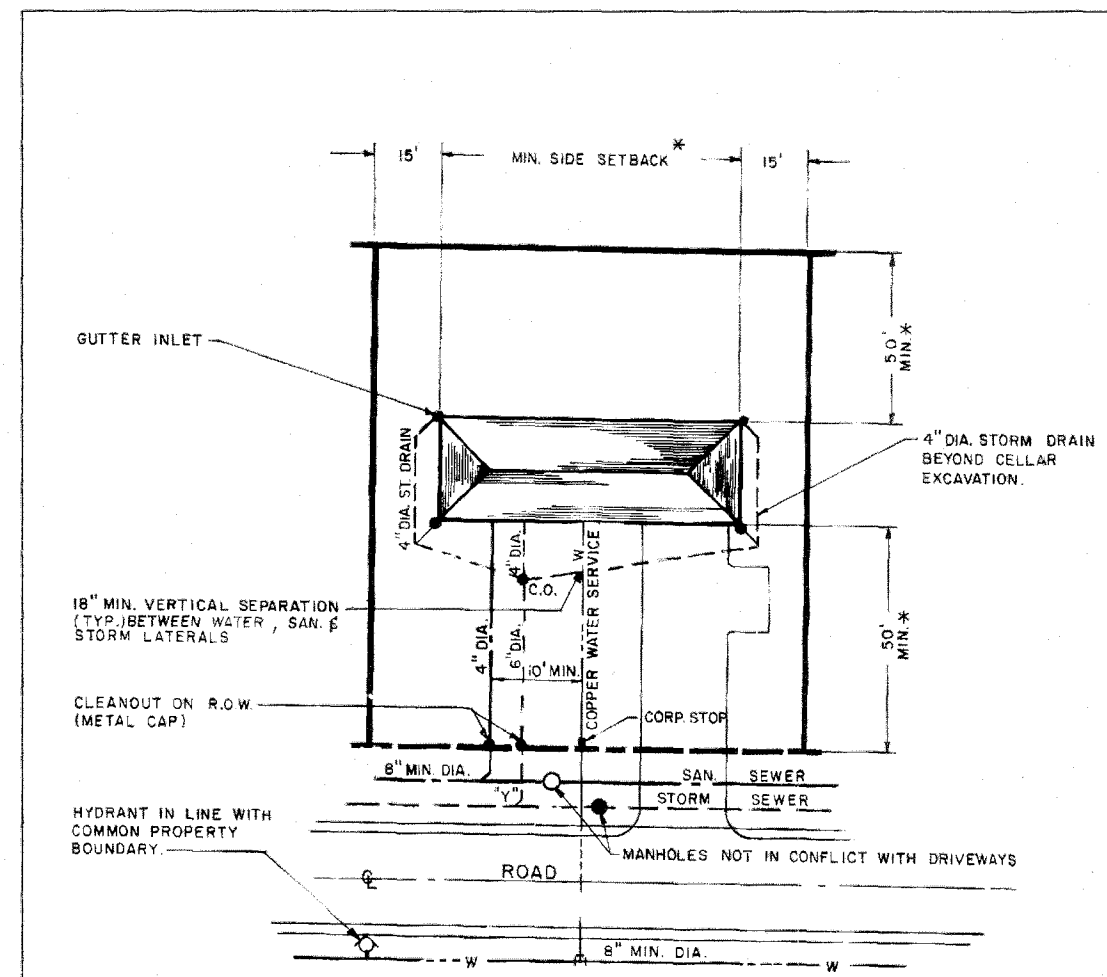
Designed By: M.W.B.
Drawn By: M.M.R.
Approved By: M.M.R.
Date: 12-4-94
Scale: NONE

TOWN OF WEBSTER
1000 RIDGE ROAD,
WEBSTER, N.Y. 14580 PHONE (716) 872-1000

BEDDING DETAIL



Highway Monuments
May be round or square - see below
Placed at every change of direction on one
Side of the ROW
Must be almost flush to 1" below grade
If a conflict occurs w/ driveway or other:
*Use Neenan cast frame and cover 1/4" below
*Relocate and revise record map showing
old location.
Monument record map must be provided.
Electronic file is ok i.e. .pdf



* SUBJECT TO ZONING REGULATIONS (1-3 SHOWN ON SKETCH)
NOTE: WATERMAIN CROSSING SUBJECT TO M.C.H.D. REGULATIONS

Designed By: M.M.R.
Drawn By: M.M.R.
Approved By: M.M.R.
Date: 12-17-84
Scale: 1" = 30'

TOWN OF WEBSTER
1000 RIDGE ROAD,
WEBSTER, N.Y. 14580 PHONE (716) 872-1000

TYPICAL
LOT LAYOUT

APPROVED BY: HIGHWAY SUPERINTENDENT. DATE:	APPROVED BY: WEBSTER SEWER DISTRICT DATE:	APPROVED BY: DIRECTOR OF COMMUNITY DEVELOPMENT DATE:
APPROVED BY: TOWN ASSESSOR DATE:	APPROVED BY: PLANNING BOARD CHAIRMAN DATE:	APPROVED BY: TOWN ENGINEER DATE:
APPROVED BY: FIRE MARSHAL DATE:		

MARATHON
ENGINEERING
ROCHESTER LOCATION
39 CASCADE DRIVE
ROCHESTER, NY 14614
585-458-7770
ITHACA LOCATION
840 HANSHAW RD. STE 6
ITHACA, NY 14850
607-241-2917
www.marathoneng.com

FINAL SECTION 3 PLANS
for
WESTWOOD ESTATES
SUBDIVISION
451 SALT ROAD
MONROE COUNTY
TOWN OF WEBSTER
STATE OF NEW YORK

JOB NO:	0761-23
SCALE:	AS SHOWN
DRAWN:	PBG
DESIGNED:	RPB
DATE:	04/16/2024
REVISIONS	
DATE	BY REVISION
05/15/24	PG TOWN OF WEBSTER AND MCDOT COMMENTS
06/20/24	PG PRE-MYLAR REVIEW
08/21/24	PG ISSUED FOR SIGNATURE

IT IS A REPRESENTATION OF THE WORK DONE BY THE ENGINEER AND NOT A GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED. THE ENGINEER'S LIABILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PROJECT. THE ENGINEER'S LIABILITY IS NOT EXTENDED TO ANY OTHER WORK OR TO ANY OTHER PARTY. THE ENGINEER'S LIABILITY IS NOT EXTENDED TO ANY OTHER WORK OR TO ANY OTHER PARTY.

COPYRIGHT © 2024 MARATHON ENG.

STATE OF NEW YORK
ROBERT P. BRINGLEY
066924
REGISTERED PROFESSIONAL ENGINEER

DRAWING TITLE:
CONSTRUCTION
DETAILS

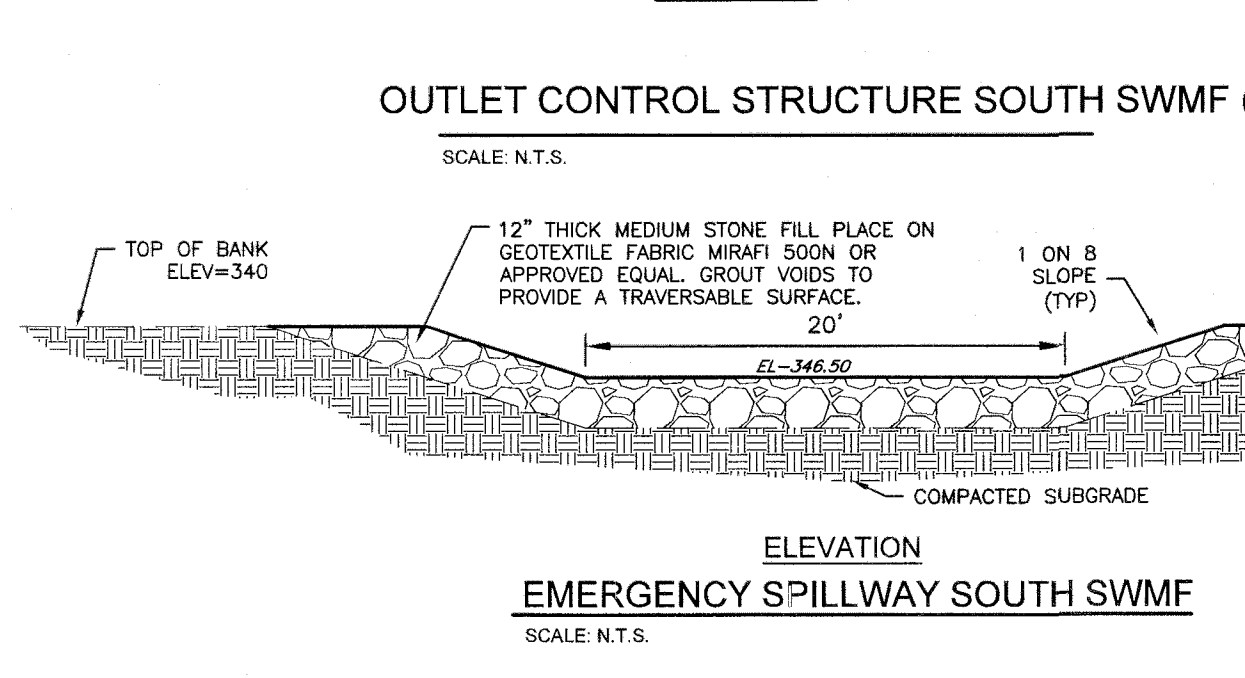
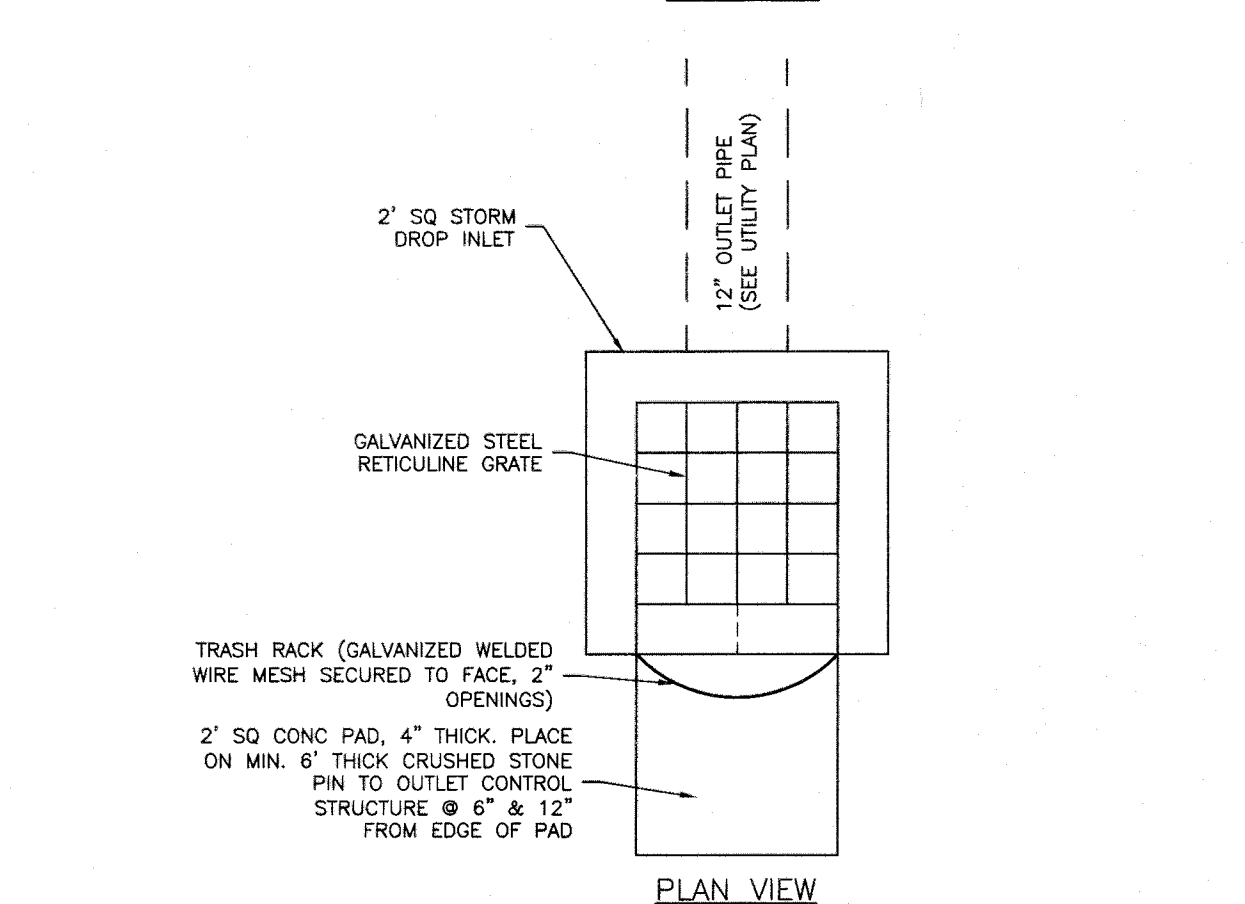
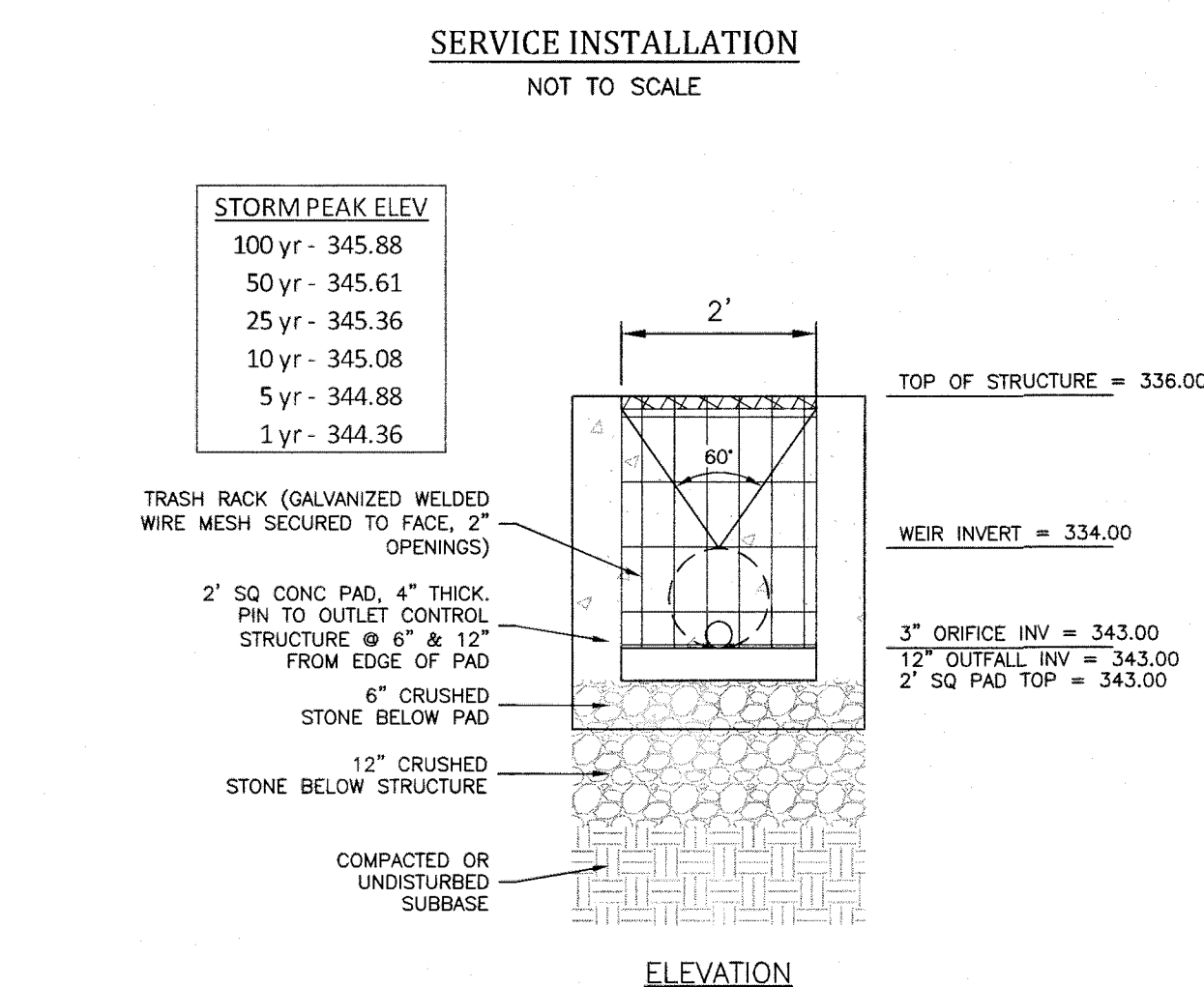
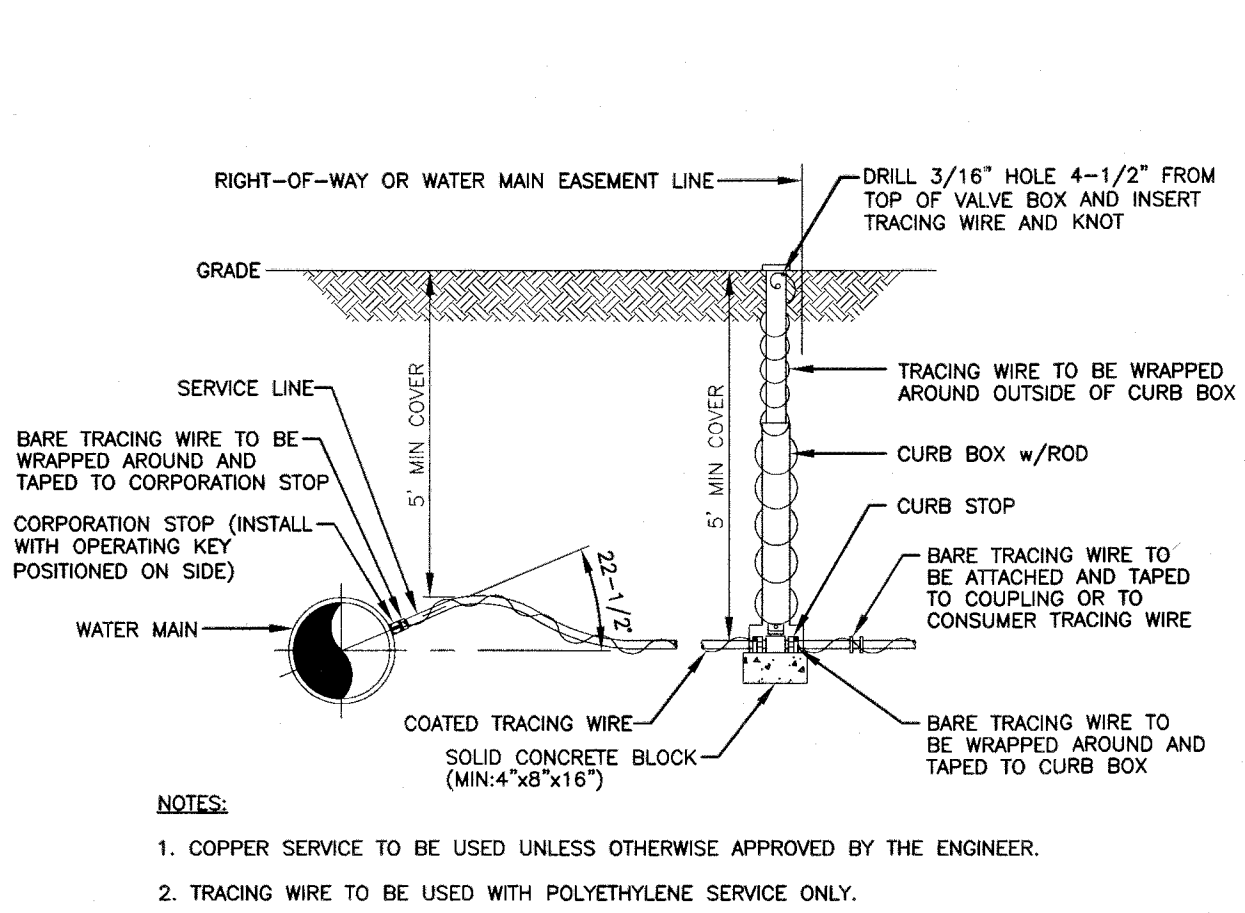
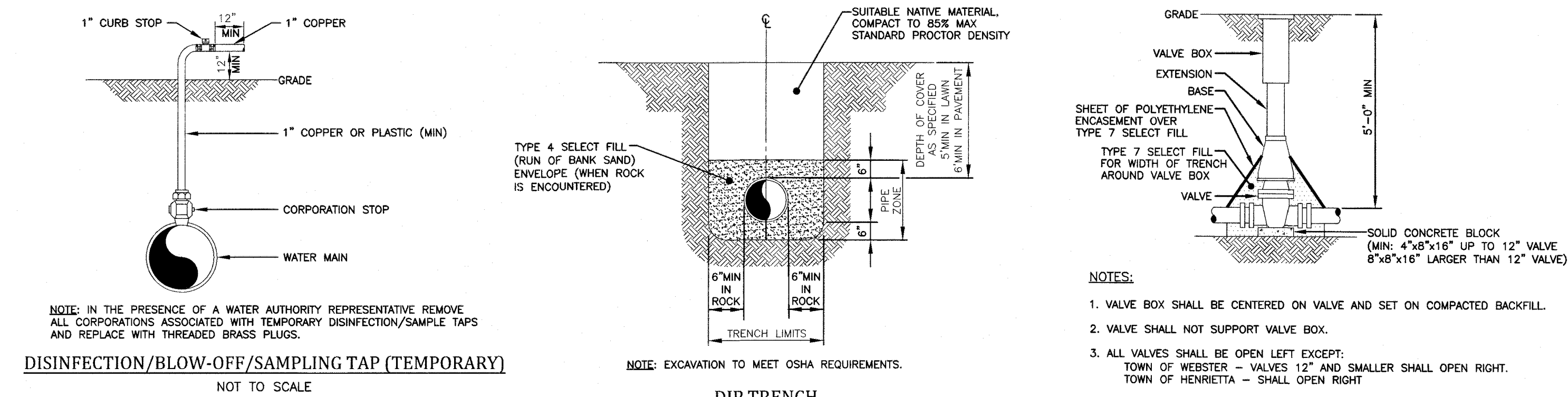
13 of 16
SHEET No: C9.0

0761-23
JOB No: DRAWING No:

APPROVED BY: _____
 DIRECTOR OF COMMUNITY DEVELOPMENT
 DATE: _____

APPROVED BY: _____
 FIRE MARSHAL
 DATE: _____

File: z:\engineering\job_files\0761-16\Drawings\section 3\Sheets\C9.X.dwg, Last saved: 8/21/2024, Plot Date: 8/21/2024, Plot Style: MARATHON_STANDARD.CTB



PUBLIC WATER SYSTEM NOTES

Water mains and appurtenances to be constructed in accordance with the regulations and specifications of the Water Authority:

Material:

- Water main(s) shall be 8 -inch ductile iron cement-lined Class 52.
- Water service(s) shall be 1 -inch Type K Copper from the water main to the curb box and 1/2 -inch (Type K soft Copper or PE #4710) from the curb box to the meter.
- Water meter(s) shall be located on the exterior of exterior walls immediately upon service entrance into the building(s). On metered services requiring a 1 1/2 -inch or larger meter a bypass around the meter is required.
- All gate valves shall have stainless steel body and bonnet bolts.

Tests:

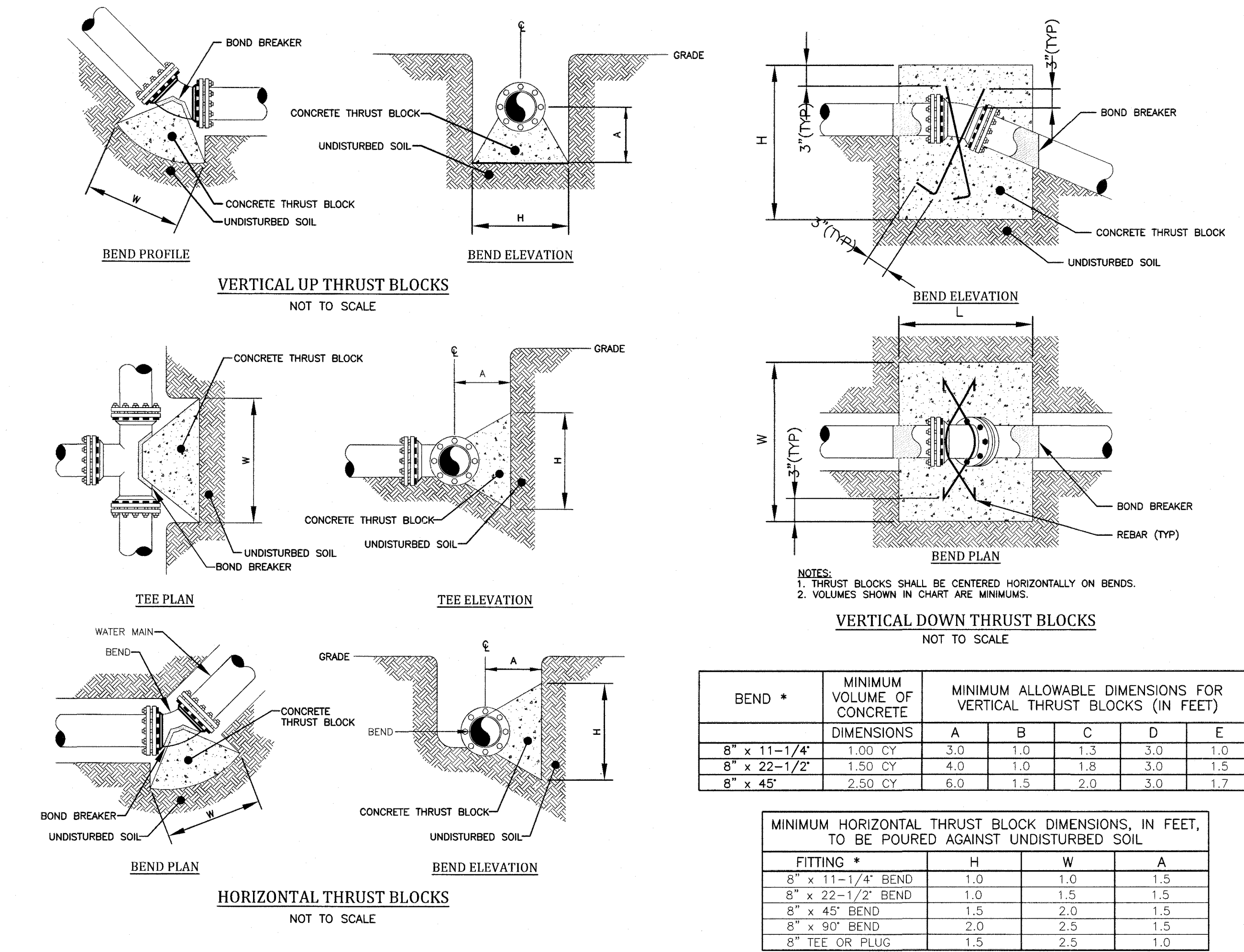
- Soil Test.** The contractor shall provide a soil test evaluation to determine the need for polyethylene encasement per ANSI/AWWA C105/A21.5-82 prior to water main installation. Soil testing shall be conducted by an approved soil testing laboratory in accordance with Water Authority standards.
- Pressure Test.** Water mains to be pressure tested in accordance with the latest Water Authority specifications. A Water Authority representative must witness this test.
- Health Sample.** The water main shall be disinfected equal to AWWA Standard Specifications, designation C-651, by using the continuous feed method. After flushing and disinfecting the water main, water samples shall be collected from the main by the Health Department with jurisdiction of the area. Fire hydrants are not acceptable sampling points. Approval and notification by the Health Department must be received before the main is placed in service.

Installation:

- Water mains and all water service lines shall have a minimum of five feet of cover from finished grade in lawn areas and a minimum of six feet of cover from finished grade in paved areas.
- Minimum vertical separation between water main and sewer mains shall be 18" measured from the outside of the pipes at the point of crossing. Minimum horizontal separation between water mains and sewer mains shall be ten feet measured from the outside of the pipes. One full length of water main shall be centered under or over the sewer so that both joints will be as far from the sewer as possible. Where a water main crosses under a sewer, adequate structural support (compacted selected fill) shall be provided for the sewers to prevent excessive deflection of joints and settling on and breaking the water mains.
- Fire hydrant weep holes (dnms) shall be plugged when ground water is encountered within seven feet of the finished grade.
- All mechanical joint fittings (tees, bends, plugs, etc.) shall be backed with 2500 psi concrete thrust blocks of appropriate size to provide thrust restraint.

MONROE COUNTY WATER AUTHORITY
ROCHESTER, NEW YORK

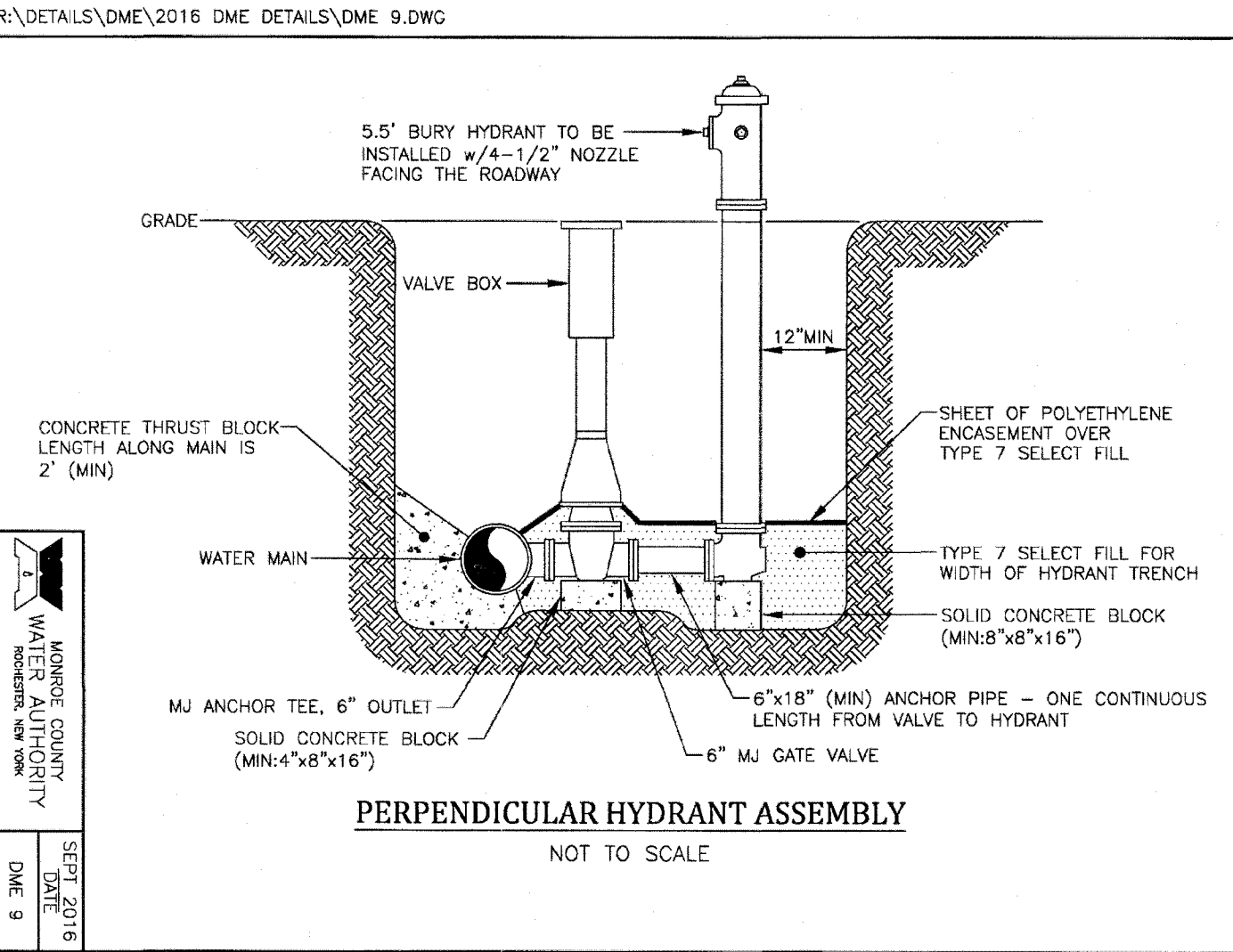
DEC 2020
DATE
DME 28



BEND *	MINIMUM VOLUME OF CONCRETE DIMENSIONS	MINIMUM ALLOWABLE DIMENSIONS FOR VERTICAL THRUST BLOCKS (IN FEET)				
		A	B	C	D	E
8" x 11-1/4"	1.00 CY	3.0	1.0	1.3	3.0	1.0
8" x 22-1/2"	1.50 CY	4.0	1.0	1.8	3.0	1.5
8" x 45"	2.50 CY	6.0	1.5	2.0	3.0	1.7

MINIMUM HORIZONTAL THRUST BLOCK DIMENSIONS, IN FEET, TO BE POURED AGAINST UNDISTURBED SOIL			
FITTING *	H	W	A
8" x 11-1/4" BEND	1.0	1.0	1.5
8" x 22-1/2" BEND	1.0	1.5	1.5
8" x 45" BEND	1.5	2.0	1.5
8" x 90" BEND	2.0	2.5	1.5
8" TEE OR PLUG	1.5	2.5	1.0

NOTE: WIDTH (W) OF BLOCK SHALL NOT EXCEED TWICE THE HEIGHT (H).



APPROVED BY:
HIGHWAY SUPERINTENDENT
DATE:

APPROVED BY:
TOWN ASSESSOR
DATE:

APPROVED BY:
WEBSTER SEWER DISTRICT
DATE:

APPROVED BY:
TOWN ENGINEER
DATE:

APPROVED BY:
PLANNING BOARD CHAIRMAN
DATE:

APPROVED BY:
DIRECTOR OF COMMUNITY DEVELOPMENT
DATE:

APPROVED BY:
FIRE MARSHAL
DATE:

MARATHON ENGINEERING
39 CASCADE DRIVE
ROCHESTER, NY 14614
585-458-7770
ITHACA LOCATION
840 HANSHAW RD, STE 6
ITHACA, NY 14850
607-241-2917
www.marathoneng.com

FINAL SECTION 3 PLANS
for
WESTWOOD ESTATES SUBDIVISION
451 SALT ROAD
MONROE COUNTY
STATE OF NEW YORK
TOWN OF WEBSTER

JOB NO: 0761-23
SCALE: AS SHOWN
DRAWN: PBG
DESIGNED: RPB
DATE: 04/16/2024

REVISIONS	
DATE	BY REVISION
05/15/24	PG TOWN OF WEBSTER AND MCDOT COMMENTS
06/20/24	PG PRE-MYLAR REVIEW
08/21/24	PG ISSUED FOR SIGNATURE

IF A REVISION OR AMENDMENT IS REQUIRED, THE DESIGNER SHALL BE NOTIFIED BY THE TOWN OF WEBSTER. THE TOWN OF WEBSTER SHALL BE RESPONSIBLE FOR THE DESIGNER'S RESPONSE. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGNER'S RESPONSE. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGNER'S RESPONSE.

STATE OF NEW YORK
ROBERT P. BRINGLEY
LICENSED PROFESSIONAL ENGINEER
NO. 066924

DRAWING TITLE:
CONSTRUCTION DETAILS

15 of 16
SHEET No: **C9.2**
0761-23
JOB No: DRAWING No:

