

# 2025-1 WINDERMERE AVENUE SEWER EXTENSION

WINDERMERE AVENUE · ELLINGTON · CT  
DECEMBER 2025



PREPARED BY  
**FUSS & O'NEILL**

ONE FINANCIAL PLAZA, 15th FLOOR  
HARTFORD, CT 06103  
860.646.2469  
www.fando.com



LOCATION MAP  
SCALE: 1" = 1,000'

PREPARED FOR  
**TOWN OF ELLINGTON  
WATER POLLUTION CONTROL AUTHORITY**  
21 MAIN ST. ELLINGTON, CT 06029

DANIEL PARISI - CHAIRMAN  
PAUL GILBERT - BOARD MEMBER  
SHAWN KOEHLER - BOARD MEMBER  
TOM WALKER - BOARD MEMBER

THOMAS MODZELEWSKI - WPCA ADMINISTRATOR

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PROJ. No.: 20180683.B50  
DATE: DECEMBER 2025

GI-001

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MS VIEW: PC3: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3: STB/CTB: FO STB

**LEGEND**

<p><b>EXISTING</b></p>	<p><b>PROPOSED</b></p>																																																																																												
<p><b>ABBREVIATIONS</b></p> <table border="0"> <tr><td>BFS</td><td>BEGIN FULL SUPERELEVATION</td></tr> <tr><td>BNC</td><td>BEGIN NORMAL CROWN</td></tr> <tr><td>CB</td><td>CATCH BASIN</td></tr> <tr><td>R.C.C.E</td><td>REINFORCED CONCRETE CULVERT END</td></tr> <tr><td>D</td><td>DELTA ANGLE</td></tr> <tr><td>e</td><td>ELEVATION BANK RATE</td></tr> <tr><td>E</td><td>EASTING</td></tr> <tr><td>EFS</td><td>END SUPERELEVATION</td></tr> <tr><td>EL</td><td>ELEVATION</td></tr> <tr><td>EXIST</td><td>EXISTING</td></tr> <tr><td>ENC</td><td>END NORMAL CROWN</td></tr> <tr><td>EOR</td><td>EDGE OF ROAD</td></tr> <tr><td>FIPT</td><td>FEMALE IRON PIPE THREAD</td></tr> <tr><td>FF</td><td>FINISH FLOOR ELEVATION</td></tr> <tr><td>GF</td><td>GARAGE FLOOR ELEVATION</td></tr> <tr><td>HDPE</td><td>HIGH DENSITY POLYETHYLENE PIPE</td></tr> <tr><td>HP</td><td>HIGH POINT</td></tr> <tr><td>K</td><td>K VALUE</td></tr> <tr><td>L</td><td>LENGTH OF CURVE</td></tr> <tr><td>LOD</td><td>LIMIT OF DISTURBANCE</td></tr> <tr><td>LT</td><td>LEFT</td></tr> <tr><td>LP</td><td>LOW POINT</td></tr> <tr><td>LPS</td><td>LOW PRESSURE SEWER</td></tr> <tr><td>LVC</td><td>LENGTH OF VERTICAL CURVE</td></tr> <tr><td>N</td><td>NORTHING</td></tr> <tr><td>PERM</td><td>PERMANENT</td></tr> <tr><td>PROP</td><td>PROPOSED OR PROPERTY</td></tr> <tr><td>PC</td><td>POINT OF CURVATURE</td></tr> <tr><td>PI</td><td>POINT OF INTERSECTION</td></tr> <tr><td>PT</td><td>POINT OF TANGENCY</td></tr> <tr><td>PRC</td><td>POINT OF REVERSE CURVATURE</td></tr> <tr><td>PVC</td><td>POINT OF CURVATURE OR POLYVINYL CHLORIDE PIPE</td></tr> <tr><td>PVI</td><td>POINT OF VERTICAL INTERSECTION</td></tr> <tr><td>PVT</td><td>POINT OF VERTICAL TANGENCY</td></tr> <tr><td>R</td><td>RADIUS</td></tr> <tr><td>RT</td><td>RIGHT</td></tr> <tr><td>RCP</td><td>REINFORCED CONCRETE PIPE</td></tr> <tr><td>ROW</td><td>RIGHT OF WAY</td></tr> <tr><td>S</td><td>SLOPE</td></tr> <tr><td>SAN</td><td>SANITARY</td></tr> <tr><td>STA</td><td>STATION</td></tr> <tr><td>T</td><td>TANGENT LENGTH</td></tr> <tr><td>TEMP</td><td>TEMPORARY</td></tr> <tr><td>T.F.</td><td>TOP OF FRAME</td></tr> <tr><td>T.G.</td><td>TOP OF GRATE</td></tr> <tr><td>WETL</td><td>WETLAND</td></tr> </table>		BFS	BEGIN FULL SUPERELEVATION	BNC	BEGIN NORMAL CROWN	CB	CATCH BASIN	R.C.C.E	REINFORCED CONCRETE CULVERT END	D	DELTA ANGLE	e	ELEVATION BANK RATE	E	EASTING	EFS	END SUPERELEVATION	EL	ELEVATION	EXIST	EXISTING	ENC	END NORMAL CROWN	EOR	EDGE OF ROAD	FIPT	FEMALE IRON PIPE THREAD	FF	FINISH FLOOR ELEVATION	GF	GARAGE FLOOR ELEVATION	HDPE	HIGH DENSITY POLYETHYLENE PIPE	HP	HIGH POINT	K	K VALUE	L	LENGTH OF CURVE	LOD	LIMIT OF DISTURBANCE	LT	LEFT	LP	LOW POINT	LPS	LOW PRESSURE SEWER	LVC	LENGTH OF VERTICAL CURVE	N	NORTHING	PERM	PERMANENT	PROP	PROPOSED OR PROPERTY	PC	POINT OF CURVATURE	PI	POINT OF INTERSECTION	PT	POINT OF TANGENCY	PRC	POINT OF REVERSE CURVATURE	PVC	POINT OF CURVATURE OR POLYVINYL CHLORIDE PIPE	PVI	POINT OF VERTICAL INTERSECTION	PVT	POINT OF VERTICAL TANGENCY	R	RADIUS	RT	RIGHT	RCP	REINFORCED CONCRETE PIPE	ROW	RIGHT OF WAY	S	SLOPE	SAN	SANITARY	STA	STATION	T	TANGENT LENGTH	TEMP	TEMPORARY	T.F.	TOP OF FRAME	T.G.	TOP OF GRATE	WETL	WETLAND
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<p><b>CIVIL GENERAL NOTES</b></p> <p><b>GENERAL</b></p> <ol style="list-style-type: none"> <li>SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSION OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.</li> <li>DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS, SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.</li> <li>PERFORM NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.</li> <li>TOPOGRAPHIC ELEVATIONS ARE BASED ON NAVD88 DATUM.</li> </ol> <p><b>WORK RESTRICTIONS</b></p> <ol style="list-style-type: none"> <li>DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE PERMITS.</li> <li>WORK IS RESTRICTED TO THE HOURS OF TO THE HOURS 7 AM TO 5 PM ON MONDAY THROUGH FRIDAY.</li> </ol> <p><b>REGULATORY REQUIREMENTS</b></p> <ol style="list-style-type: none"> <li>WITHIN LOCAL RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS.</li> <li>PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.</li> <li>BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.</li> <li>DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.</li> </ol> <p><b>DEMOLITION</b></p> <ol style="list-style-type: none"> <li>PERFORM A PRE-BID SITE INSPECTION. COORDINATE DEMOLITION OF UNIDENTIFIED UTILITIES OR STRUCTURES WITH OWNER. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL. SITE IMPROVEMENTS, UTILITIES, ETC. AS REQUIRED TO CONSTRUCT THE PROPOSED IMPROVEMENTS.</li> </ol>																																																																																													

**CONSTRUCTION SCHEDULE**

- CONSTRUCTION WILL COMMENCE IN FALL 2025 AND IS EXPECTED TO BE COMPLETED IN SPRING 2026.
- PLACE STRAW BALES, SILT FENCING, SILT SACKS AND/OR EROSION CONTROL MEASURES AS SHOWN ON PLANS AND WHERE DIRECTED BY THE ENGINEER. MAINTAIN OR REPLACE STRAW BALES, SILT FENCING, SILT SACKS, AND/OR EROSION CONTROL AS REQUIRED THROUGHOUT CONSTRUCTION PERIOD. PREPARE STOCKPILE AREAS AND SURROUND WITH STRAW BALES AND/OR SILT FENCE.
- UTILITY CONSTRUCTION SHALL COMMENCE WITH THE DOWN STREAM CONNECTION POINT AND WORK TOWARDS THE UPSTREAM MANHOLE.
- BEGIN MINOR CLEARING, REMOVE PAVEMENT AS NECESSARY AND INSTALL UTILITIES. TEMPORARILY SEED AND MULCH ALL SLOPES EXCEEDING 4 HORIZONTAL TO 1 VERTICAL IF PERMANENT STABILIZATION IS NOT COMPLETED AT THIS TIME. ALL OTHER SLOPES SHALL BE STABILIZED IN ACCORDANCE WITH THE "EROSION & SEDIMENT CONTROL NOTES".
- PLACE TEMPORARY PAVEMENT AND PREPARE ALL NON PAVED DISTURBED AREAS FOR THE PLACING OF TOPSOIL AND LANDSCAPING.
- PLACE TOPSOIL, SEED AND MULCH, AND LANDSCAPING.
- REMOVE TEMPORARY PAVEMENT OR RAMPS AND PLACE FINAL PAVEMENT.
- REMOVE ALL TEMPORARY EROSION CONTROL DEVICES ONLY AFTER ALL AREAS HAVE BEEN PAVED AND/OR GRASS HAS BEEN WELL ESTABLISHED AND THE SITE HAS BEEN INSPECTED AND APPROVED BY THE TOWN.

**CONSTRUCTION LAYOUT**

- PROVIDE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED SITE IMPROVEMENTS. FIELD VERIFY EXISTING PAVEMENT AND GROUND ELEVATIONS AT THE INTERFACE WITH PROPOSED PAVEMENTS AND DRAINAGE STRUCTURES BEFORE START OF CONSTRUCTION.
- PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, FIELD VERIFY PROPOSED UTILITY ROUTES AND IDENTIFY ANY INTERFERENCES OR OBSTRUCTIONS WITH EXISTING UTILITIES OR PUBLIC RIGHTS-OF-WAY.
- IMMEDIATELY INFORM THE ENGINEER IN WRITING IF EXISTING UTILITY AND SEWER CONDITIONS CONFLICT OR DIFFER FROM THAT INDICATED AND IF THE WORK CANNOT BE COMPLETED AS INDICATED.
- DIMENSIONS ARE FROM EDGE OF PAVEMENT, FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS NOTED OTHERWISE.
- BOUNDS OR MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.

**EARTHWORK**

- NOTIFY UTILITY LOCATOR SERVICE AT LEAST 72 HOURS BEFORE STARTING EXCAVATION. CT: "CALL BEFORE YOU DIG" AT 1-800-922-4455.
- STOP WORK IN THE VICINITY OF SUSPECTED CONTAMINATED SOIL, GROUNDWATER OR OTHER MEDIA. IMMEDIATELY NOTIFY THE OWNER SO THAT APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN. RESUME WORK IN THE IMMEDIATE VICINITY ONLY UPON DIRECTION BY THE OWNER.

**UTILITIES**

- TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.
- THE TYPE, SIZE AND LOCATION OF DEPICTED UNDERGROUND UTILITIES ARE APPROXIMATE REPRESENTATIONS OF INFORMATION OBTAINED FROM FIELD LOCATIONS OF VISIBLE FEATURES, EXISTING MAPS AND PLANS OF RECORD, UTILITY MAPPING, AND OTHER SOURCES OF INFORMATION OBTAINED BY THE ENGINEER. ASSUME NO GUARANTEE AS TO THE COMPLETENESS, SERVICEABILITY, EXISTENCE, OR ACCURACY OF UNDERGROUND FACILITIES. FIELD VERIFY THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES.
- COORDINATE THE WORK AND WORK SCHEDULE WITH WPCA AND UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.
- RIM ELEVATIONS FOR MANHOLES, VALVE COVERS, GATE AND PULL BOXES, AND OTHER STRUCTURES ARE APPROXIMATE. SET OR RESET RIM ELEVATIONS AS FOLLOWS:  
  
 IN PAVEMENTS AND CONCRETE SURFACES: 1/4 INCH BELOW FLUSH  
 IN SURFACES ALONG ACCESSIBLE ROUTES: 1/4 INCH BELOW FLUSH  
 IN LANDSCAPE, SEED, AND OTHER EARTH SURFACE AREAS:  
 1 INCH ABOVE SURROUNDING AREA; TAPER EARTH TO RIM ELEVATION.
- INSTALL PROPOSED PRIVATE UTILITY SERVICES ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY THE AUTHORITY HAVING JURISDICTION (WATER, SEWER, GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). COORDINATE FINAL DESIGN LOADS AND LOCATIONS WITH OWNER.
- EXISTING DRAINAGE AND SANITARY SEWER STRUCTURES SHALL BE CORED PRIOR TO INSTALLING NEW PIPES.

**PAVEMENT**

- AT A MINIMUM, CONSTRUCT ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).
- PLACE TEMPORARY PAVEMENT OVER TRENCHES EVERY FRIDAY.

**SITE RESTORATION**

- PROVIDE 6 INCHES OF TOPSOIL AND SEED TO AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED TO BE RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) UNLESS OTHERWISE NOTED.
- REPAIR DAMAGES RESULTING FROM CONSTRUCTION LOADS, AT NO ADDITIONAL COST TO OWNER.
- RESTORE AREAS DISTURBED BY CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION OR BETTER, AT NO ADDITIONAL COST TO OWNER.

**INSTALLATION AND HANDLING OF STRUCTURES (MANHOLES FRAMES, CATCH BASIN TOPS, GATE VALVES ETC.) WITHIN PAVEMENT AREAS**

- TOP OF MANHOLE FRAMES (SANITARY AND STORM DRAIN), CATCH BASIN TOPS AND OTHER UTILITY STRUCTURES SHALL BE INSTALLED AS STIPULATED IN THE FOLLOWING STEPS:
- STRUCTURES SHALL INITIALLY BE INSTALLED TO TOP OF THE SUBBASE LAYER AND PLATED. THE LOCATION OF STRUCTURES SHALL THEN BE REFERENCED AND CLEARLY MARKED.
- AFTER STRUCTURES ARE PLATED, ONE OR TWO BASE COURSES OF BITUMINOUS CONCRETE SHALL BE INSTALLED TO THE GRADES SHOWN ON THE PLANS.
- FROM THE STRUCTURE REFERENCE MARKS, THE BASE COURSES OF PAVEMENT SHALL BE CUT AND REMOVED, THE STRUCTURES EXPOSED AND THE TOPS PLACED TO FINAL GRADE.
- THE FRAMES AND TOPS SHALL BE BROUGHT TO FINAL GRADE USING AN APPROPRIATE COMBINATION OF CONCRETE RISER RINGS, CEMENT MORTAR, CONCRETE BRICKS AND STEEL SHIMS. ADJUST GATE RISERS AS NECESSARY.
- THE FRAMES AND TOPS SHALL BE ALIGNED TO MATCH THE PROPOSED CROSS SLOPE AND GRADE OF THE FINAL SURROUNDING PAVED SURFACE TO THE EXTENT PRACTICABLE.
- THE FRAMES AND TOPS SHALL LOCKED IN PLACE WITH CLASS A CONCRETE. CONCRETE SHALL BE PLACED TO THE TOP OF THE BASE COURSES.

**SURVEY NOTES**

- THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS AND SUGGESTED METHODS AND PROCEDURES FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED FOR USE BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 29, 2019. IT IS A TOPOGRAPHIC SURVEY AND CONFORMS TO HORIZONTAL CLASS B AND TOPOGRAPHIC CLASS T-2 ACCURACY STANDARDS. IT IS INTENDED TO BE USED TO DEPICT THE EXISTING CONDITIONS AT THE TIME OF SURVEY.
- NORTH ORIENTATION DEPICTED HEREON IS APPROXIMATE NORTH AMERICAN DATUM 1983 (NAD83) BASED UPON CONTROL PROVIDED BY CLIENT.
- VERTICAL DATUM DEPICTED HEREON IS APPROXIMATE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) BASED UPON CONTROL PROVIDED BY CLIENT.
- THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON THE LOCATION OF ABOVE GROUND STRUCTURES AND RECORD DRAWINGS PROVIDED BY OTHERS. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES. ALL SUBTERRANEAN FEATURES AND IMPROVEMENTS MAY NOT BE DEPICTED OR NOTED HEREON. THE LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. CONTACT "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OPERATIONS.
- THE FIELD SURVEY WAS COMPLETED ON SEPTEMBER 11, 2025.
- PROPERTY LINES AND BUILDING LOCATIONS DEPICTED HEREON CONFORM TO HORIZONTAL CLASS D ACCURACY STANDARDS AND ARE DERIVED FROM THE TOWN OF ELLINGTON GEOGRAPHICAL INFORMATION SYSTEM (GIS).

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER



SEAL	SEAL	

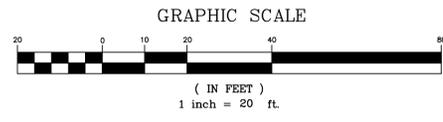
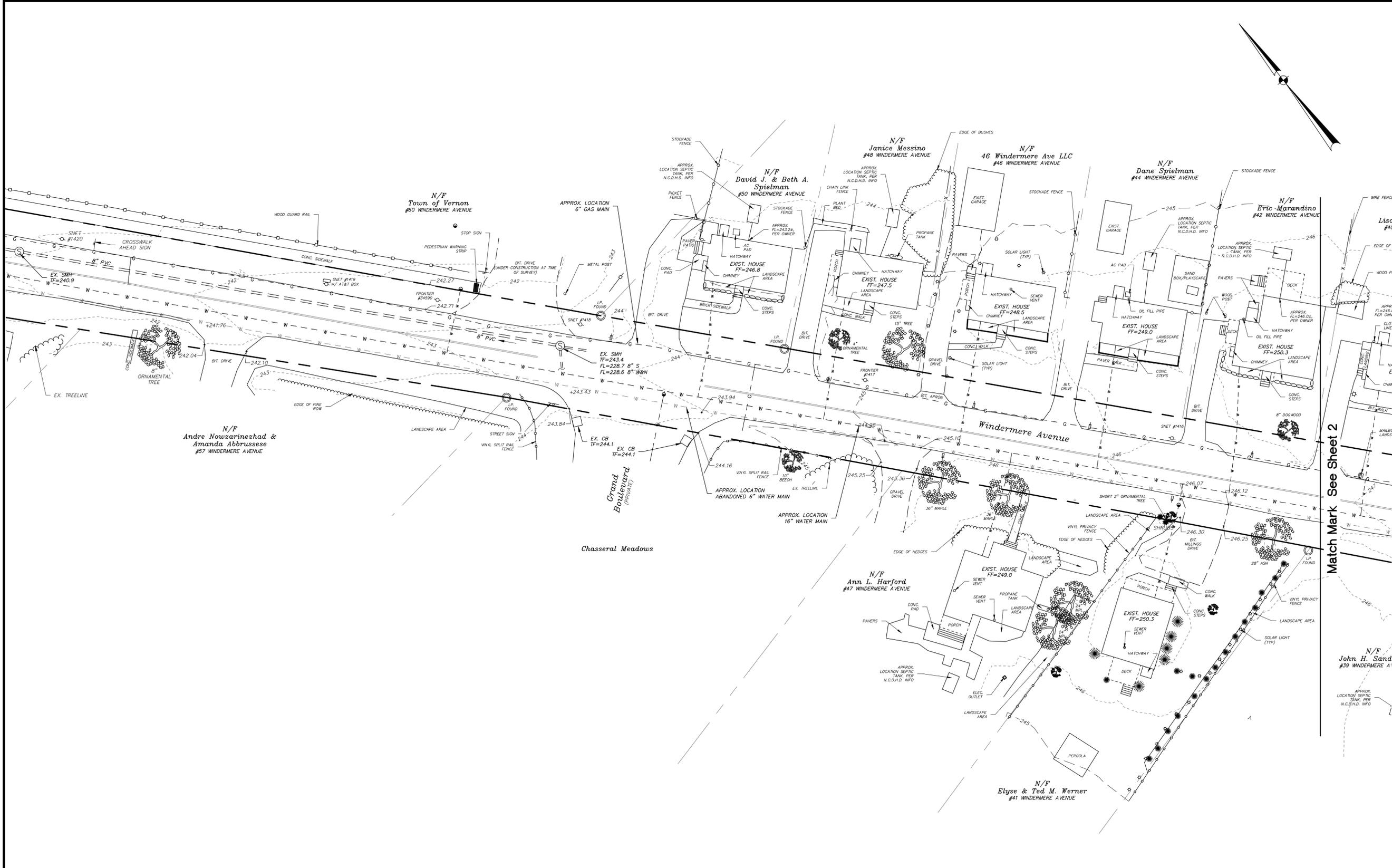
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	VERT.: -
DATUM:	HORIZ.: -
	VERT.: -

**FUSS & O'NEILL**  
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TOWN OF ELLINGTON WPCA  
 GENERAL NOTES & LEGEND  
 WINDERMERE AVENUE SEWER EXTENSION  
 ELLINGTON CONNECTICUT

PROJ. No.: 20180683.B50  
 DATE: DECEMBER 2025  
**GI-102**

S:\Acad\2021 Civil\3D\2021-803 EL - Windermere Ave. Sidewalks\Russo Drawings\2021-803.dwg, 1:1



TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.



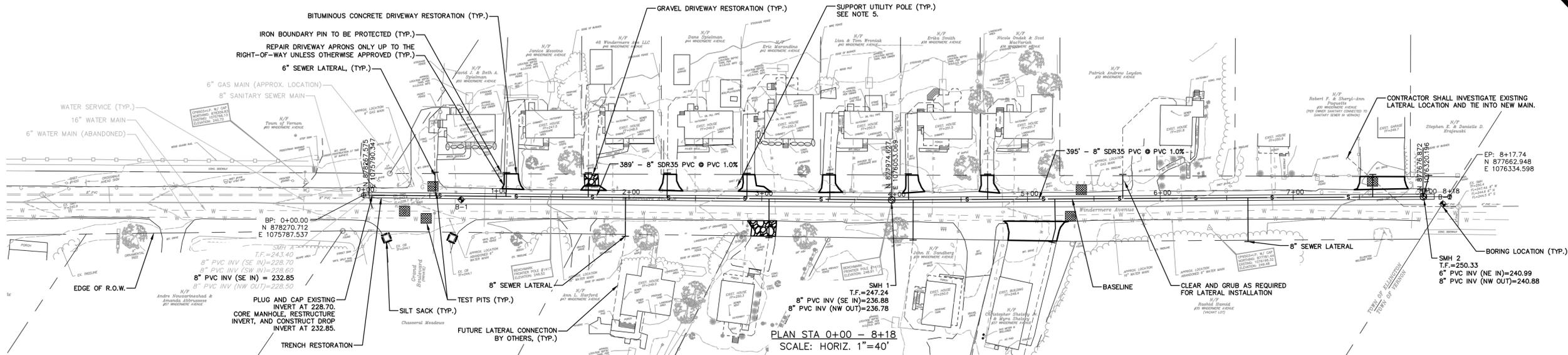
REVISIONS	
BY: CJC	CHK: TAC/IEU

Windermere Avenue  
Sanitary Sewer Improvements  
Prepared For  
Ellington Department of Public Works  
Windermere Avenue  
Ellington, Connecticut

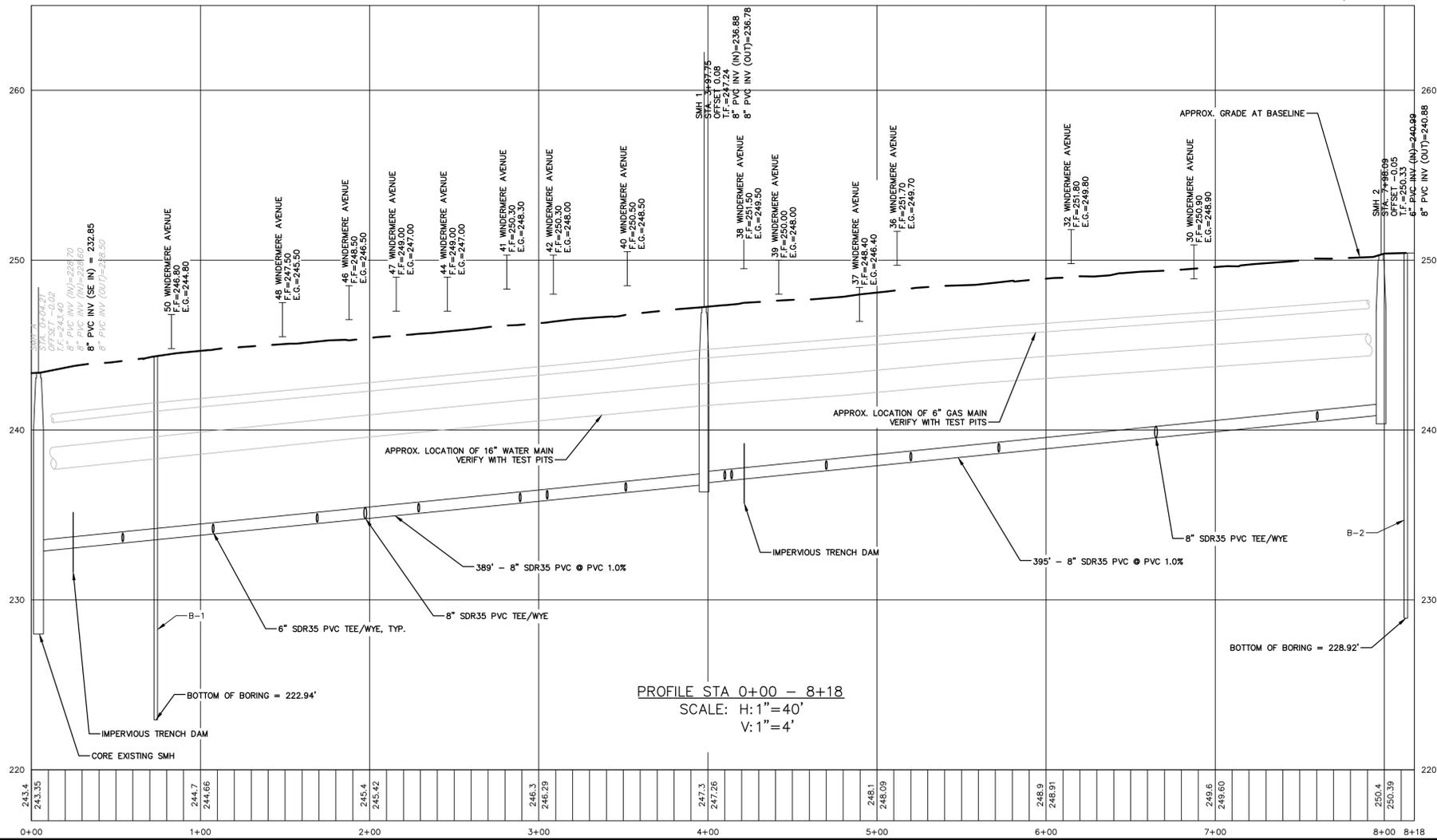
Existing Conditions Plan

DATE	xx-xx-25
SCALE	1"=20'
JOB NUMBER	2021-803
SHEET	1 of 2





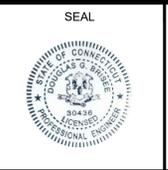
PLAN STA 0+00 - 8+18  
 SCALE: HORIZ. 1"=40'



PROFILE STA 0+00 - 8+18  
 SCALE: H: 1"=40'  
 V: 1"=4'

- NOTES:**
- TEST PITS SHALL BE EXCAVATED PRIOR TO CONSTRUCTION. WATER AND GAS SERVICE CONNECTIONS SHALL BE CAREFULLY EXPOSED AND PROTECTED DURING SEWER EXCAVATION.
  - SEWER LATERALS GRAPHICAL SHOWN SHALL BE 6-INCH IN DIAMETER, UNLESS OTHERWISE LABELED.
  - THE CONTRACTOR SHALL RESTORE ALL DAMAGED AND/OR REMOVED PAVEMENT MARKINGS.
  - MANHOLE FRAME AND COVERS SHALL BE INSTALLED IN THE CENTER OF THE TRAVEL LANE.
  - THE CONTRACTOR WILL COORDINATE WITH UTILITY COMPANY TO SUPPORT UTILITY POLES DURING CONSTRUCTION.
  - TEST BORING LOCATION CLARENCE WELTI ASSOCIATES, INC. 10/31/2025 (4).

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER



SCALE:  
 HORIZ.: 1" = 40'  
 VERT.: 1" = 4'

DATUM:  
 HORIZ.: NAD 83  
 VERT.: NAVD 88

0 20' 40' 80'  
 GRAPHIC SCALE

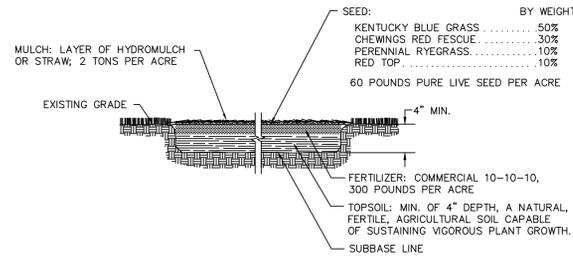
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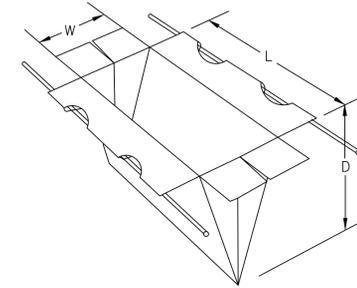
PROJ. No.: 20180683-B50  
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**CS-101**

**EROSION & SEDIMENT CONTROL NOTES**

- 1. CONSTRUCTION STANDARDS** - CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE MOST RECENT EDITION OF THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (CT DEP BULLETIN 34). ALL MEASURES SHALL BE MAINTAINED AND UPGRADED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION.
- 2. NOTIFICATION OF AGENT** - INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO CONSTRUCTION. NOTIFY THE TOWN OF ELLINGTON WPCA ADMINISTRATOR TO INSPECT WHEN THE INSTALLATIONS ARE COMPLETE.
- 3. INSTALLATION SCHEDULE** - INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO STUMP REMOVAL AND CONSTRUCTION. INSTALL ADDITIONAL CONTROL MEASURES DURING THE CONSTRUCTION PERIOD AS SHOWN AND, AS DEEMED NECESSARY BY THE OWNER AND THEIR AGENTS.
- 4. LAND DISTURBANCE** - KEEP LAND DISTURBANCE TO A MINIMUM; RESTABILIZE AS SOON AS PRACTICAL.
- 5. FUGITIVE DUST** - CONTROL FUGITIVE DUST USING WATER SPRAYS OR CALCIUM CHLORIDE ON SOIL SURFACES, SWEEPING PAVED AREAS, TEMPORARY WINDBREAKS OR NON-ASPHALTIC SOIL TACKIFIERS.
- 6. STRAW BALE LIFE SPAN** - INSTALL STRAW BALES (OR WATTLES/EROSION CONTROL LOGS) WHERE PROTECTION AND EFFECTIVENESS IS REQUIRED FOR LESS THAN 90 DAYS. OTHERWISE, INSTALL SILT FENCE.
- 7. CATCH BASINS** - PROTECT CATCH BASINS WITH PROPER CONTROLS THROUGHOUT THE CONSTRUCTION PERIOD UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- 8. STOCKPILES** - ENCIRCLE STOCKPILES OF ERODIBLE SOIL WITH A STRAW BALE OR SILT FENCE BARRIER. THE SIDE SLOPES OF ERODIBLE STOCKPILED MATERIAL SHALL BE NO STEEPER THAN 2:1. STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS SHALL BE SEEDDED AND MULCHED IMMEDIATELY AFTER THEY ARE FORMED.
- 9. TOE OF SLOPE** - ESTABLISH AN EROSION CONTROL BARRIER (SILT FENCE OR STRAW BALE BARRIER) AT THE PROPOSED TOE OF THE CUT OR FILL AREA PRIOR TO BEGINNING EARTHWORK.
- 10. SEDIMENT REMOVAL** - SEDIMENT REACHING 1/2 THE HEIGHT OF THE EROSION CONTROL BARRIER SHALL BE REMOVED. REMOVE AND DISPOSE OF SEDIMENT IN A MANNER CONSISTENT WITH THE INTENT OF THE PLAN.
- 11. SOIL STABILIZATION SCHEDULE** - APPLY PERMANENT SOIL STABILIZATION MEASURES TO ALL GRADED AREAS WITHIN 7 DAYS OF ESTABLISHING FINAL GRADE. APPLY TEMPORARY SOIL STABILIZATION MEASURES IF FINAL GRADING IS TO BE DELAYED MORE THAN 30 DAYS.
- 12. TEMPORARY SEEDING** - TEMPORARILY SEED ERODIBLE SOILS THAT WILL BE EXPOSED GREATER THAN 1 BUT LESS THAN 12 MONTHS WITHIN THE FIRST 7 DAYS OF SUSPENDING GRADING OPERATIONS. APPLY LIME AT A RATE OF 90 LBS/1000 SQ. FT. APPLY 10-10-10 FERTILIZER AT A RATE OF 7 1/2 LBS/1000 SQ. FT. APPLY THE FINAL SEED MIXTURE IN ACCORDANCE WITH THE SPECIFICATIONS AT A RATE OF 4 LBS/1000 SQ. FT TO A DEPTH OF 1/2 IN. OPTIMUM SEEDING DATES ARE MARCH 15 TO JULY 1 AND SEPTEMBER 1 TO OCTOBER 15. MULCH FOR SEED APPLIED WITHIN THE OPTIMUM SEEDING DATES SHALL BE APPLIED EVENLY SUCH THAT IT PROVIDES 80%-95% SOIL COVERAGE. MULCH FOR SEED APPLIED OUTSIDE OF THE OPTIMUM SEEDING DATES SHALL BE APPLIED EVENLY SUCH THAT IT PROVIDES 95%-100% COVERAGE.
- 13. PERMANENT SEEDING** - SEED PERMANENT LAWN AREAS IN ACCORDANCE WITH THE SPECIFICATIONS.



**TOPSOIL, FERTILIZER, SEED & MULCH**  
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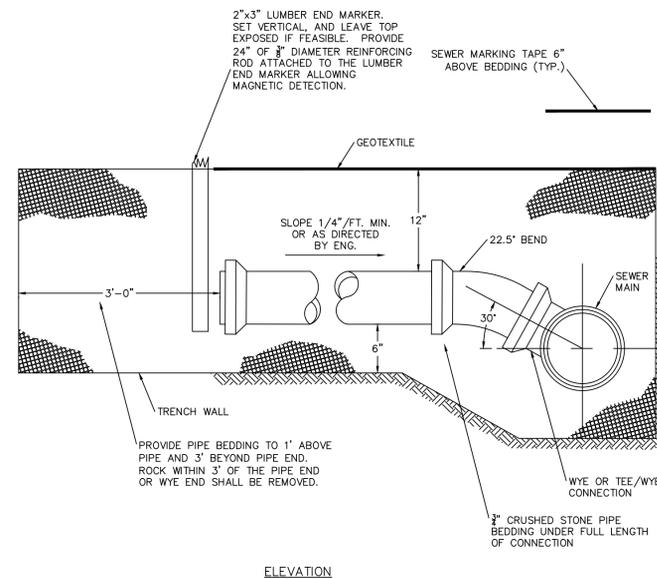


- NOTES**
- SIZED TO FIT ANY SIZE OR SHAPE CATCH BASIN.
  - ALL SEAMS DOUBLE STITCHED.
  - PERMEABILITY:  
REGULAR FLOW SILTSACK: 40 GAL./MIN./SQ. FT.  
HI-FLOW SILTSACK: 200 GAL./MIN./SQ. FT.

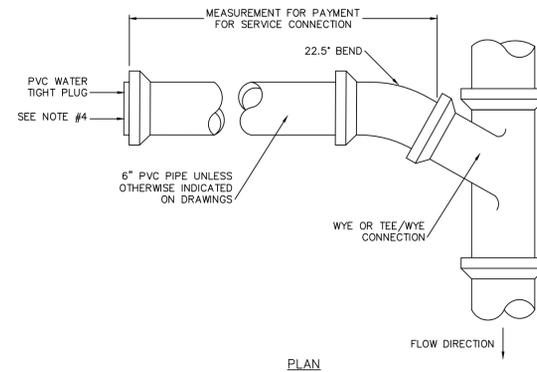
**SILT SACK**  
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**SUGGESTED SEQUENCE OF CONSTRUCTION**

- OBTAIN REQUIRED PERMITS, AUTHORIZATIONS AND APPROVALS FROM FEDERAL, STATE AND LOCAL AUTHORITIES, AS WELL AS PRIVATE ENTITIES INCLUDING THE OWNER, HAVING JURISDICTION OVER THE PROJECT. MAKE REQUIRED NOTIFICATIONS TO REGULATORY AUTHORITIES. PROVIDE COPIES OF SUCH PERMITS, AUTHORIZATIONS, APPROVALS AND NOTIFICATIONS TO THE ENGINEER.
- MOBILIZE TO PROJECT SITE.
- INSTALL EROSION CONTROLS AND OTHER TEMPORARY PROTECTIVE MEASURES TO ENSURE THE SAFETY OF PERSONS ON THE SITE AND TO MITIGATE INJURY TO ENVIRONMENTAL RECEPTORS.
- CONSTRUCT SEWER SYSTEM IMPROVEMENTS AS DEPICTED ON THE CONTRACT DRAWINGS.
- PERFORM SURFACE RESTORATION IN DISTURBED AREAS.
- DEMOBILIZE FROM PROJECT SITE.



**SERVICE CONNECTIONS**  
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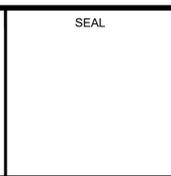
- SERVICE CONNECTION NOTES**
- NO LEDGE OR UNEXCAVATED MATERIAL SHALL PROJECT WITHIN 6" OF THE PIPE IN ANY DIRECTION.
  - EXACT LOCATION AND ELEVATION OF SERVICE CONNECTIONS TO BE DETERMINED AND SET IN THE FIELD DURING CONSTRUCTION.
  - EXACT LOCATION OF WYES/TEES, WHERE DIRECTED TO BE INSTALLED, SHALL BE SET IN THE FIELD DURING CONSTRUCTION.
  - PROVIDE DI TO PVC TRANSITION COUPLING AT END OF DI SERVICE CONNECTION.

Street	House Number	Ground Elev @ Outlet of House (ft)	Approx. Length of Lateral (ft)	Approximate Elev of Lateral @ Main Using Min. Slope (ft)	Approximate Elev. Into Sewer Main (ft)	Comments
Windermere Ave.	-	248.10	20.0	245.70	244.98	
Windermere Ave.	30	249.50	110.0	245.30	240.58	
Windermere Ave.	35	249.48	33.0	246.82	239.55	
Windermere Ave.	32	249.10	105.0	245.00	238.70	
Windermere Ave.	37	248.00	140.0	243.20	238.69	
Windermere Ave.	36	248.50	105.0	244.40	238.18	
Windermere Ave.	39	247.50	125.0	243.00	237.62	
Windermere Ave.	38	249.00	100.0	245.00	237.59	
Windermere Ave.	40	247.75	90.0	243.95	236.90	
Windermere Ave.	41	246.75	130.0	242.15	236.44	
Windermere Ave.	42	247.00	125.0	242.50	236.28	
Windermere Ave.	44	246.50	110.0	242.30	235.67	
Windermere Ave.	47	246.50	150.0	241.50	235.44	
Windermere Ave.	46	245.50	110.0	241.30	235.07	
Windermere Ave.	48	244.75	100.0	240.75	234.46	
Windermere Ave.	50	244.50	100.0	240.50	233.93	

**SEWER LATERAL CONNECTIONS SUMMARY**  
SCALE: NOT TO SCALE

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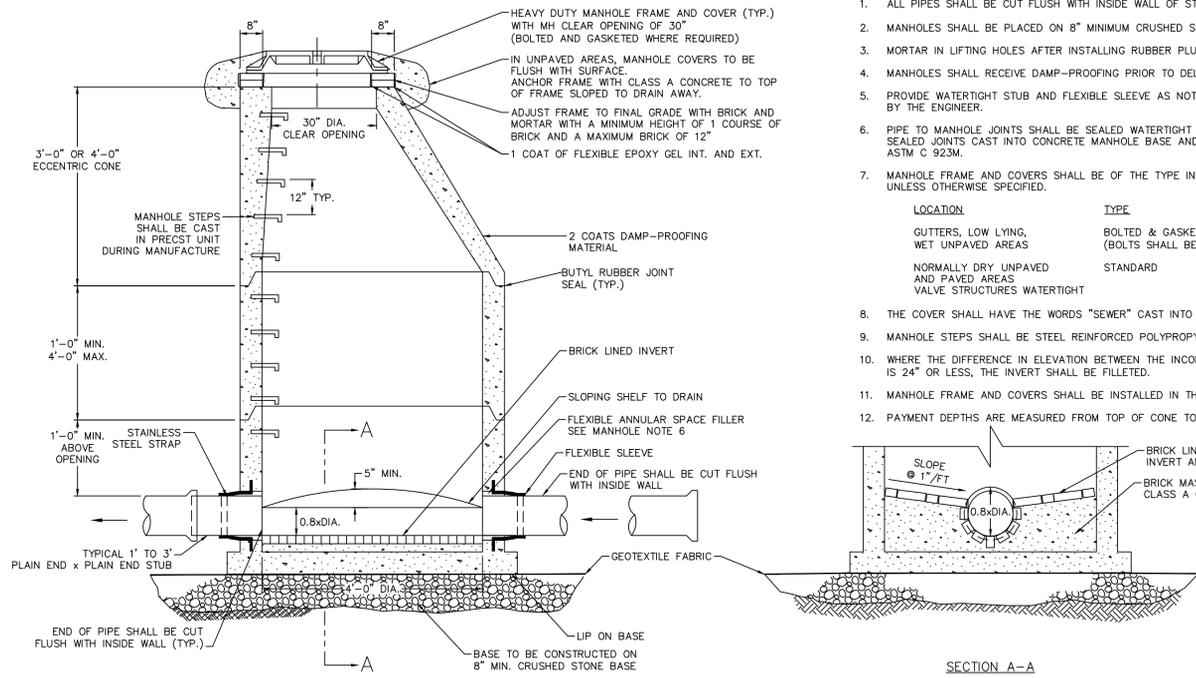
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TOWN OF ELLINGTON WPCA  
EROSION & SEDIMENTATION CONTROL  
NOTES & DETAILS  
WINDERMERE AVENUE SEWER EXTENSION  
ELLINGTON CONNECTICUT

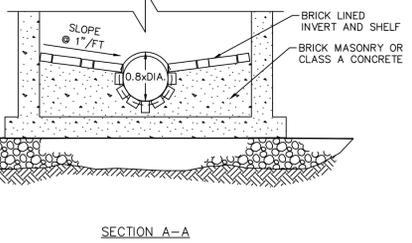
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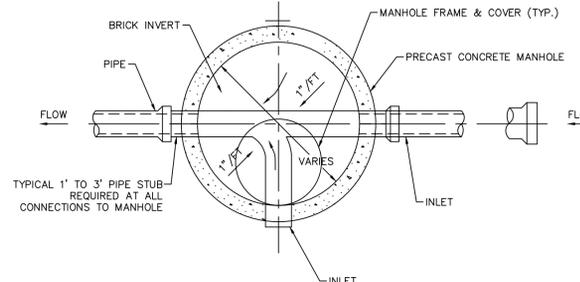


**4' PRECAST MANHOLE**  
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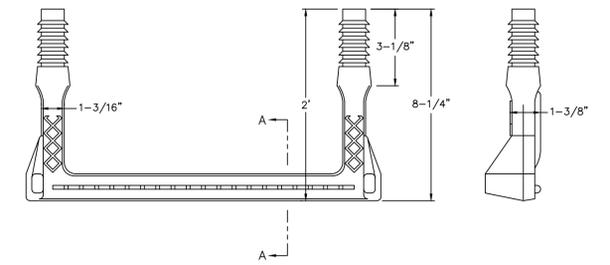
- MANHOLE NOTES**
- ALL PIPES SHALL BE CUT FLUSH WITH INSIDE WALL OF STRUCTURE.
  - MANHOLES SHALL BE PLACED ON 8" MINIMUM CRUSHED STONE BASE.
  - MORTAR IN LIFTING HOLES AFTER INSTALLING RUBBER PLUGS.
  - MANHOLES SHALL RECEIVE DAMP-PROOFING PRIOR TO DELIVERY TO THE SITE.
  - PROVIDE WATERTIGHT STUB AND FLEXIBLE SLEEVE AS NOTED ON THE DRAWING OR AS DIRECTED BY THE ENGINEER.
  - PIPE TO MANHOLE JOINTS SHALL BE SEALED WATERTIGHT BY USE OF PRE-MOLDED ELASTOMERIC SEALED JOINTS CAST INTO CONCRETE MANHOLE BASE AND SHALL CONFORM TO ASTM C 443 AND ASTM C 923M.
  - MANHOLE FRAME AND COVERS SHALL BE OF THE TYPE INDICATED BELOW OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED.
- | LOCATION                              | TYPE   |
|---------------------------------------|--|
| GUTTERS, LOW LYING, WET UNPAVED AREAS | BOLTED & GASKETED (BOLTS SHALL BE 1/2" STAINLESS STEEL.) |
| NORMALLY DRY UNPAVED AND PAVED AREAS  | STANDARD   |
- THE COVER SHALL HAVE THE WORDS "SEWER" CAST INTO THE COVER IN 2" LETTERS.
  - MANHOLE STEPS SHALL BE STEEL REINFORCED POLYPROPYLENE OR ALUMINUM.
  - WHERE THE DIFFERENCE IN ELEVATION BETWEEN THE INCOMING SEWER AND THE MANHOLE INVERT IS 24" OR LESS, THE INVERT SHALL BE FILLETED.
  - MANHOLE FRAME AND COVERS SHALL BE INSTALLED IN THE CENTER OF THE TRAVEL LANE.
  - PAYMENT DEPTHS ARE MEASURED FROM TOP OF CONE TO INVERT OF STRUCTURE.



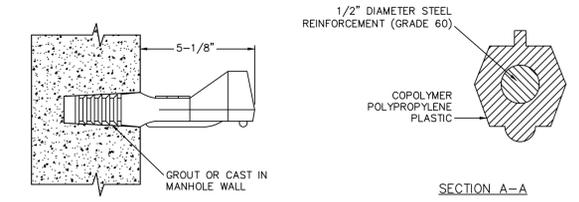
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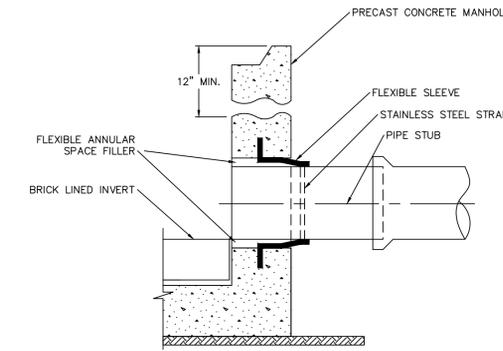
**MANHOLE PLAN VIEW**  
SCALE: NOT TO SCALE



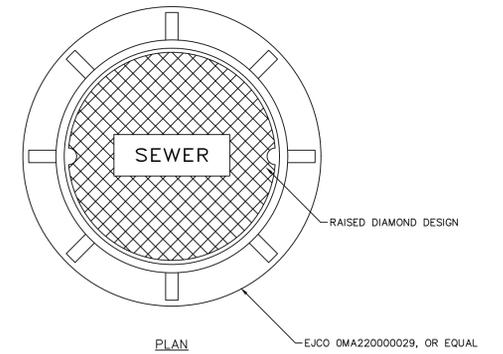
**MANHOLE STEP DETAIL**  
SCALE: NOT TO SCALE



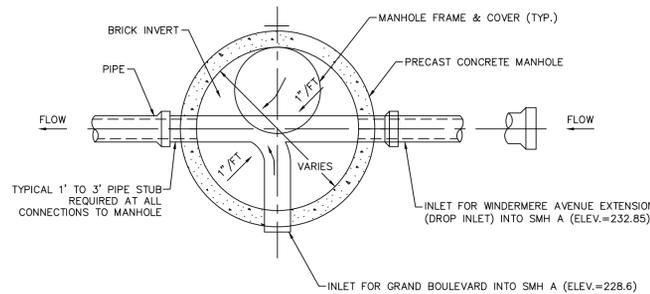
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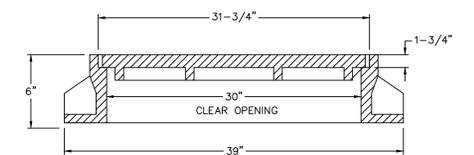
**FLEXIBLE SLEEVE**  
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PLAN

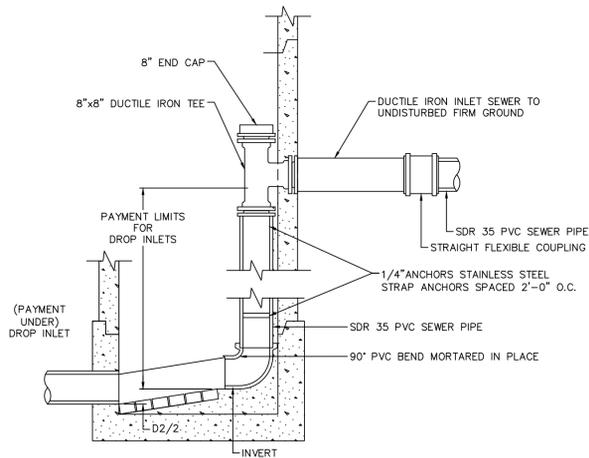


**EXISTING MANHOLE A PLAN VIEW**  
SCALE: NOT TO SCALE



SECTION

**STANDARD SANITARY MANHOLE FRAME & COVER**  
SCALE: NOT TO SCALE



INVERT DETAIL AT MAIN RUN DROPS

- INSIDE DROP INLET NOTES**
- DIMENSIONS AND CONSTRUCTION OF DROP MANHOLE SHALL BE SIMILAR TO TYPICAL MANHOLE EXCEPT AS SHOWN.
  - DROP PIPE SHALL BE SAME DIAMETER AS SEWER MAIN UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

**INSIDE DROP INLET**  
SCALE: NOT TO SCALE

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER



SEAL	SEAL	

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DATUM:	HORIZ.: -
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TOWN OF ELLINGTON WPCA  
**SEWER DETAILS**  
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