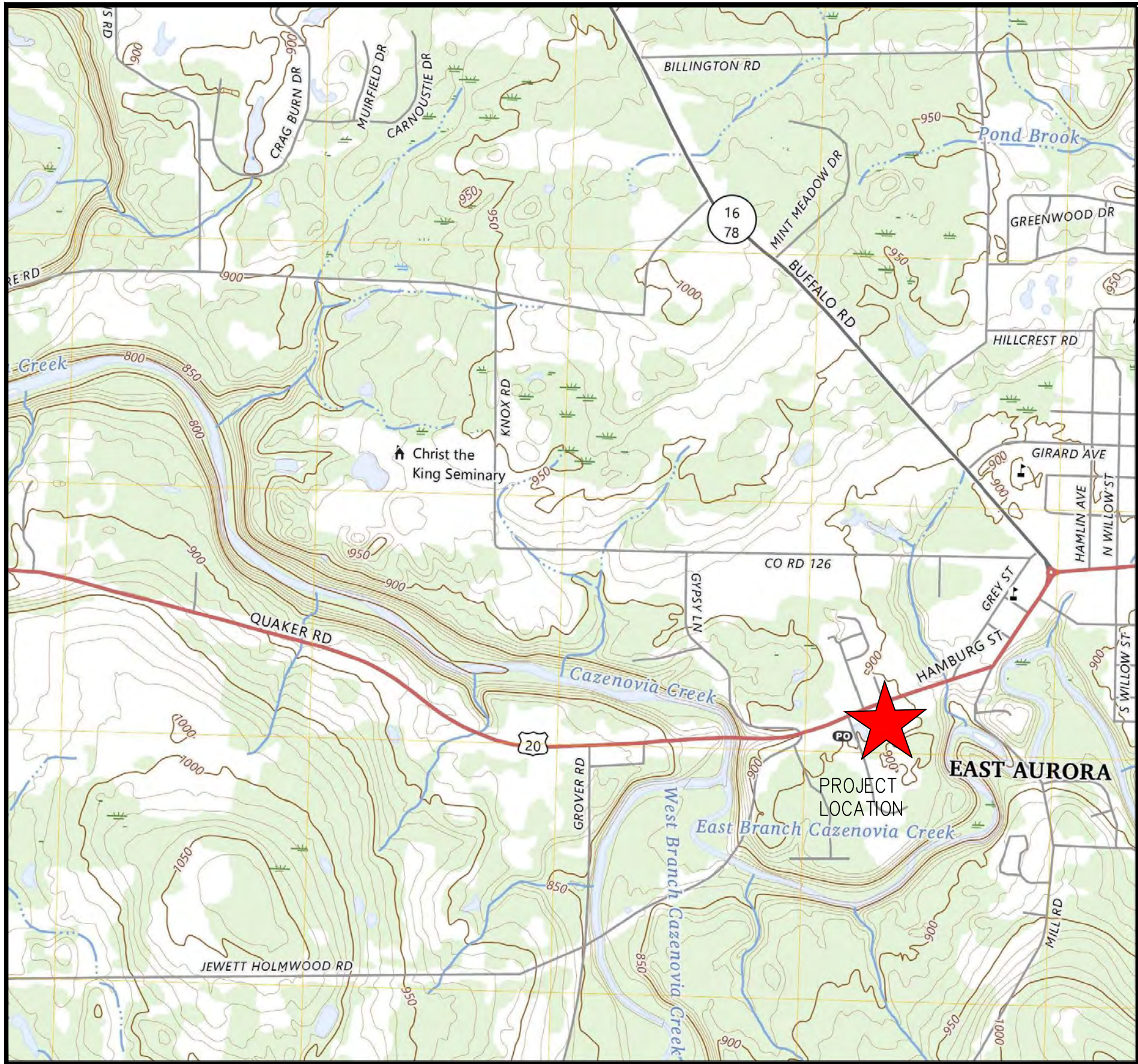
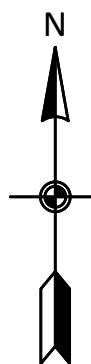


359 QUAKER ROAD
MEDICAL OFFICES
PCW Enterprises, LLC

359 Quaker Road
Town of Aurora, NY 14052



PROJECT LOCATION MAP
N.T.S.

Sheet List Table	
Sheet Number	Sheet Title
00	COVER SHEET
EC	EXISTING CONDITIONS
01	DEMOLITION PLAN
02	SITE PLAN
03	SANITARY SEWER & UTILITY PLAN
04	SANITARY SEWER PROFILES
05	SANITARY DETAILS 1
06	SANITARY DETAILS 2
07	SANITARY DETAILS 3
08	GRADING & DRAINAGE PLAN
09	PAVING & DRAINAGE DETAILS
10	EROSION & SEDIMENT CONTROL PLAN
11	EROSION & SEDIMENT CONTROL DETAILS
12	EROSION & SEDIMENT CONTROL NOTES
L-1	LANDSCAPE PLAN

PREPARED FOR
PCW Enterprises, LLC
4185 East Blood Road
Cowlesville, NY 14037

Paul C. Case

PAUL C. CASE, P.E. DATE: December 22, 2025
REGISTERED THROUGH 09/30/2026



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GPI

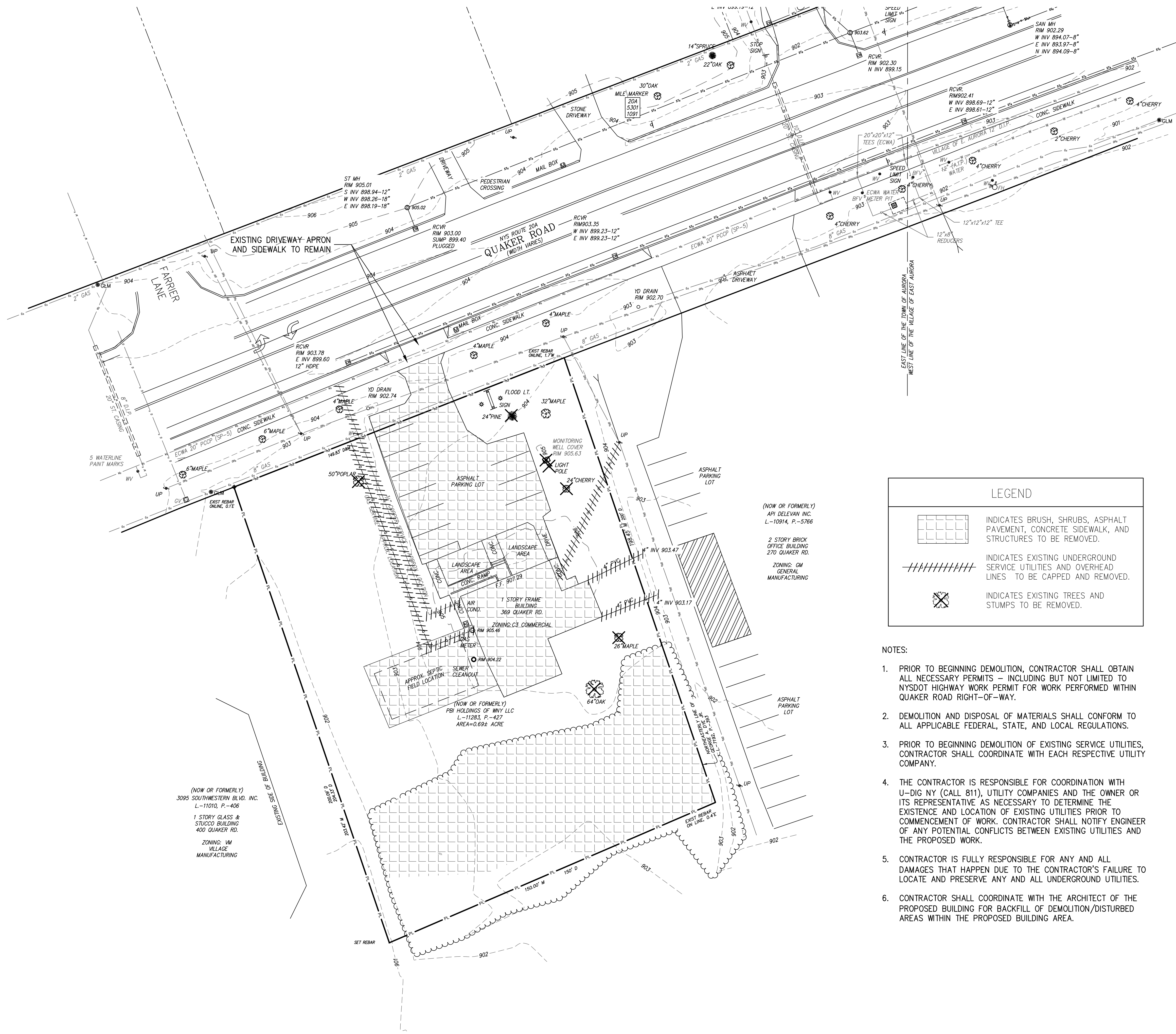
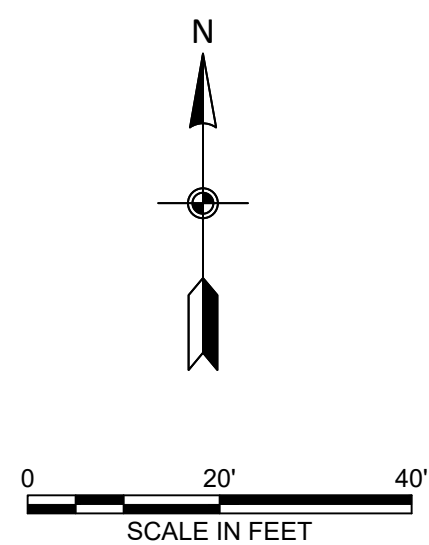
Engineering
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Construction Management

(716) 633-4844 GPINET.COM

Greenman - Pedersen, Inc.
4950 Genesee Street, Suite 100
Buffalo, NY, 14225
NYS CERTIFICATE OF AUTHORIZATION #021533

- NOTES:
- SURVEY PERFORMED BY GPI ENGINEERING, LANDSCAPE ARCHITECTURE & SURVEYING, LLP ON APRIL 19, 2019. APPROXIMATE LOCATION OF EXISTING UTILITIES TAKEN FROM UFPO INFORMATION 2025.
1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. IT IS POSSIBLE THAT OTHER UNDERGROUND UTILITIES NOT SHOWN MY BE ENCOUNTERED..
 2. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH U-DIG NY (CALL 811), UTILITY COMPANIES AND THE OWNER OR ITS REPRESENTATIVE AS NECESSARY TO DETERMINE THE EXISTENCE AND LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POTENTIAL CONFLICTS BETWEEN EXISTING UTILITIES AND THE PROPOSED WORK.
 3. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT HAPPEN DUE TO THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

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LEGEND

INDICATES BRUSH, SHRUBS, ASPHALT PAVEMENT, CONCRETE SIDEWALK, AND STRUCTURES TO BE REMOVED.

INDICATES EXISTING UNDERGROUND SERVICE UTILITIES AND OVERHEAD LINES TO BE CAPPED AND REMOVED.

INDICATES EXISTING TREES AND STUMPS TO BE REMOVED.

- NOTES:
- PRIOR TO BEGINNING DEMOLITION, CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS – INCLUDING BUT NOT LIMITED TO NYS DOT HIGHWAY WORK PERMIT FOR WORK PERFORMED WITHIN QUAKER ROAD RIGHT-OF-WAY.
 - DEMOLITION AND DISPOSAL OF MATERIALS SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
 - PRIOR TO BEGINNING DEMOLITION OF EXISTING SERVICE UTILITIES, CONTRACTOR SHALL COORDINATE WITH EACH RESPECTIVE UTILITY COMPANY.
 - THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH U-DIG NY (CALL 811), UTILITY COMPANIES AND THE OWNER OR ITS REPRESENTATIVE AS NECESSARY TO DETERMINE THE EXISTENCE AND LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POTENTIAL CONFLICTS BETWEEN EXISTING UTILITIES AND THE PROPOSED WORK.
 - CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT HAPPEN DUE TO THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
 - CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT OF THE PROPOSED BUILDING FOR BACKFILL OF DEMOLITION/DISTURBED AREAS WITHIN THE PROPOSED BUILDING AREA.

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Town of Aurora, NY 14052

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DEMOLITION PLAN

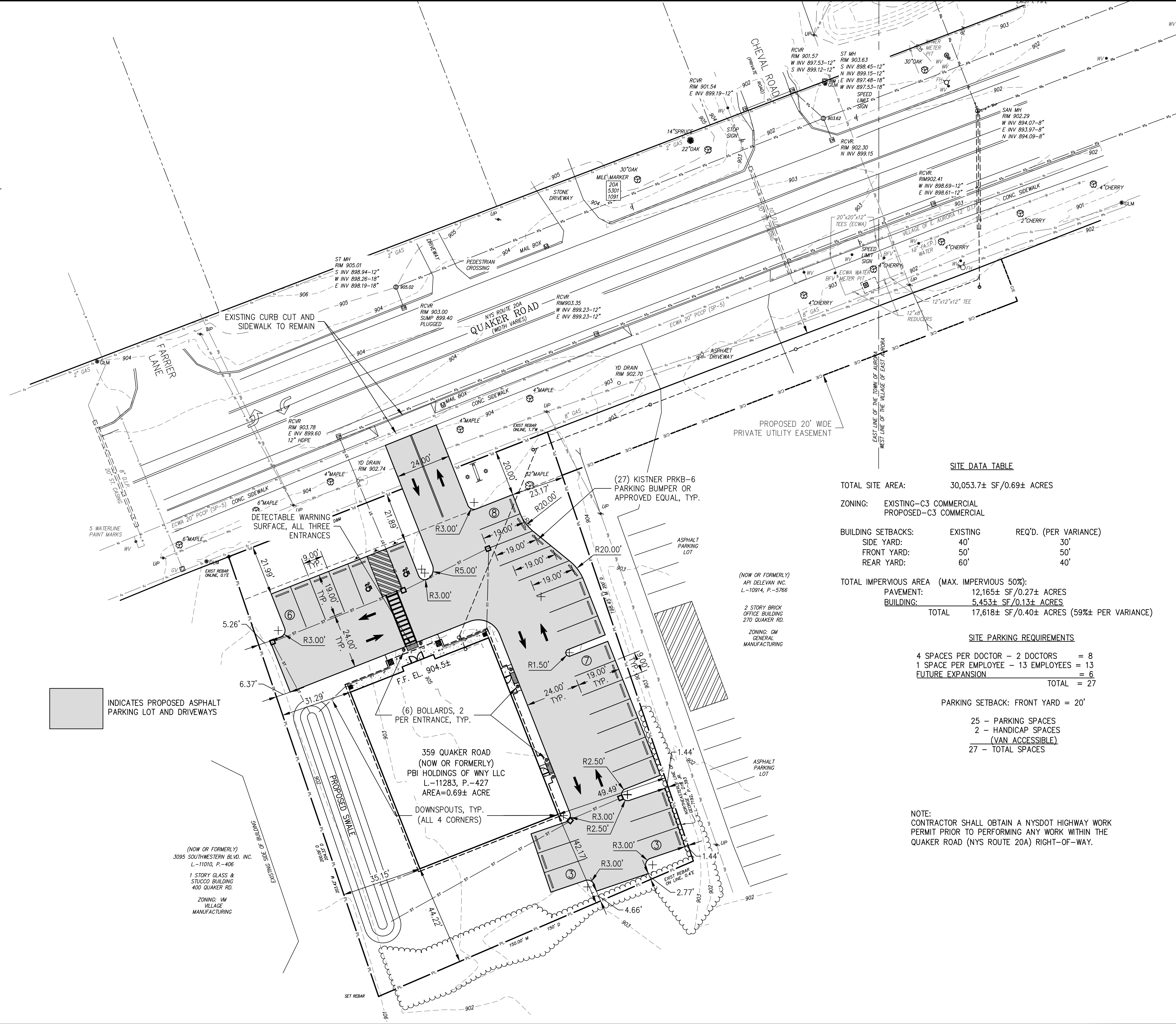
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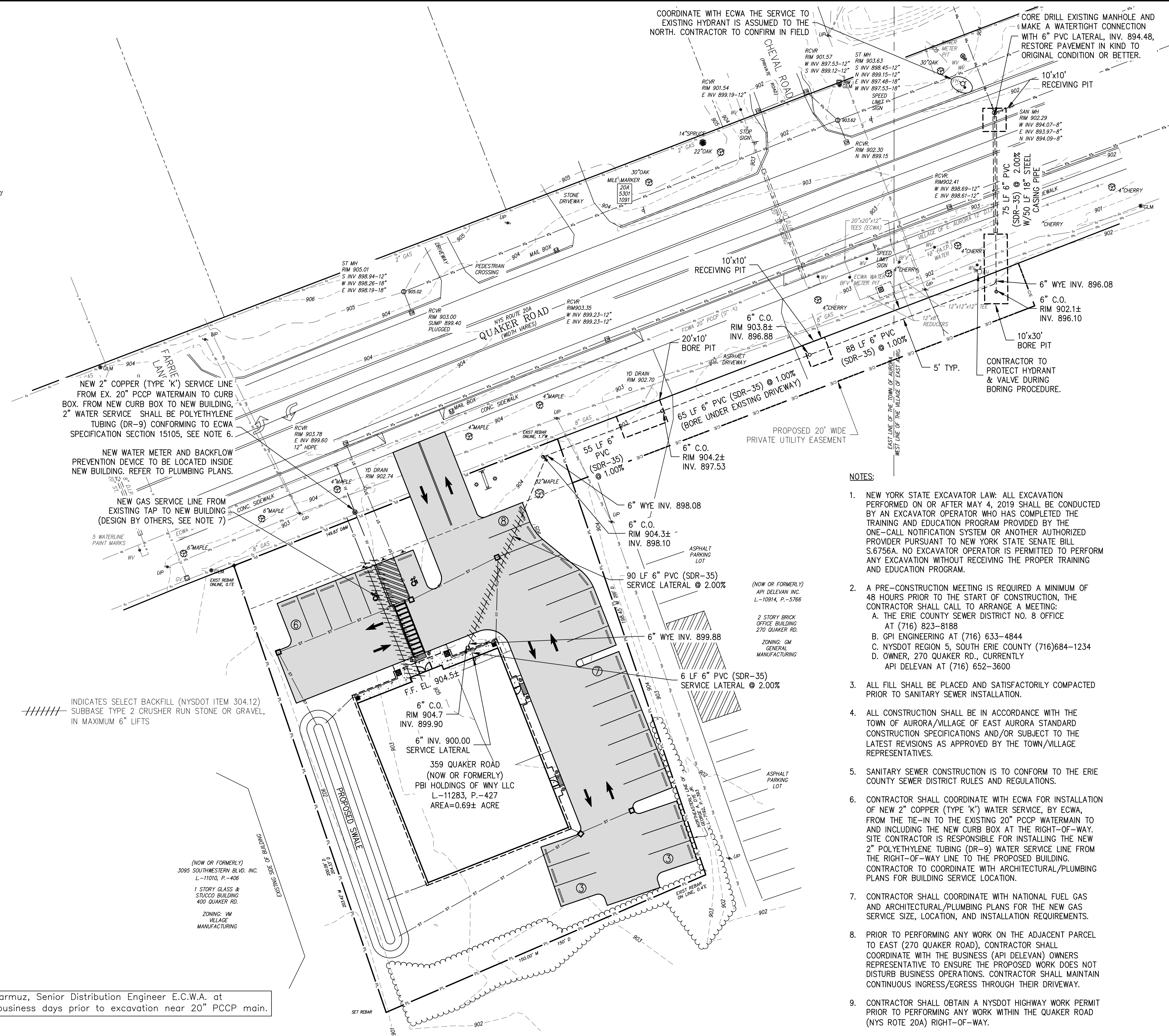
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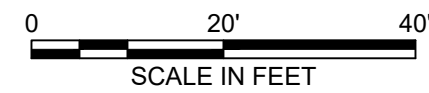
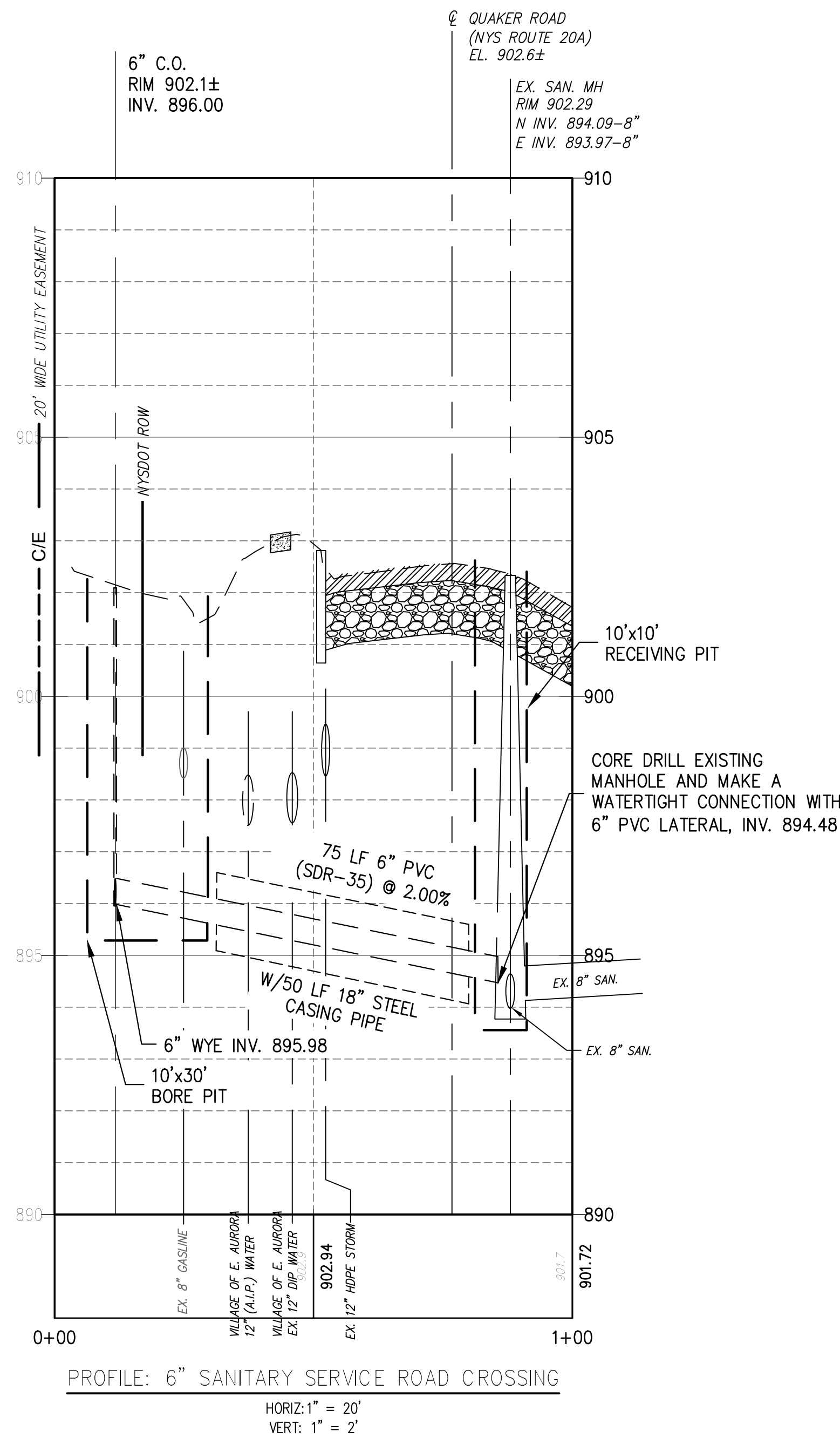
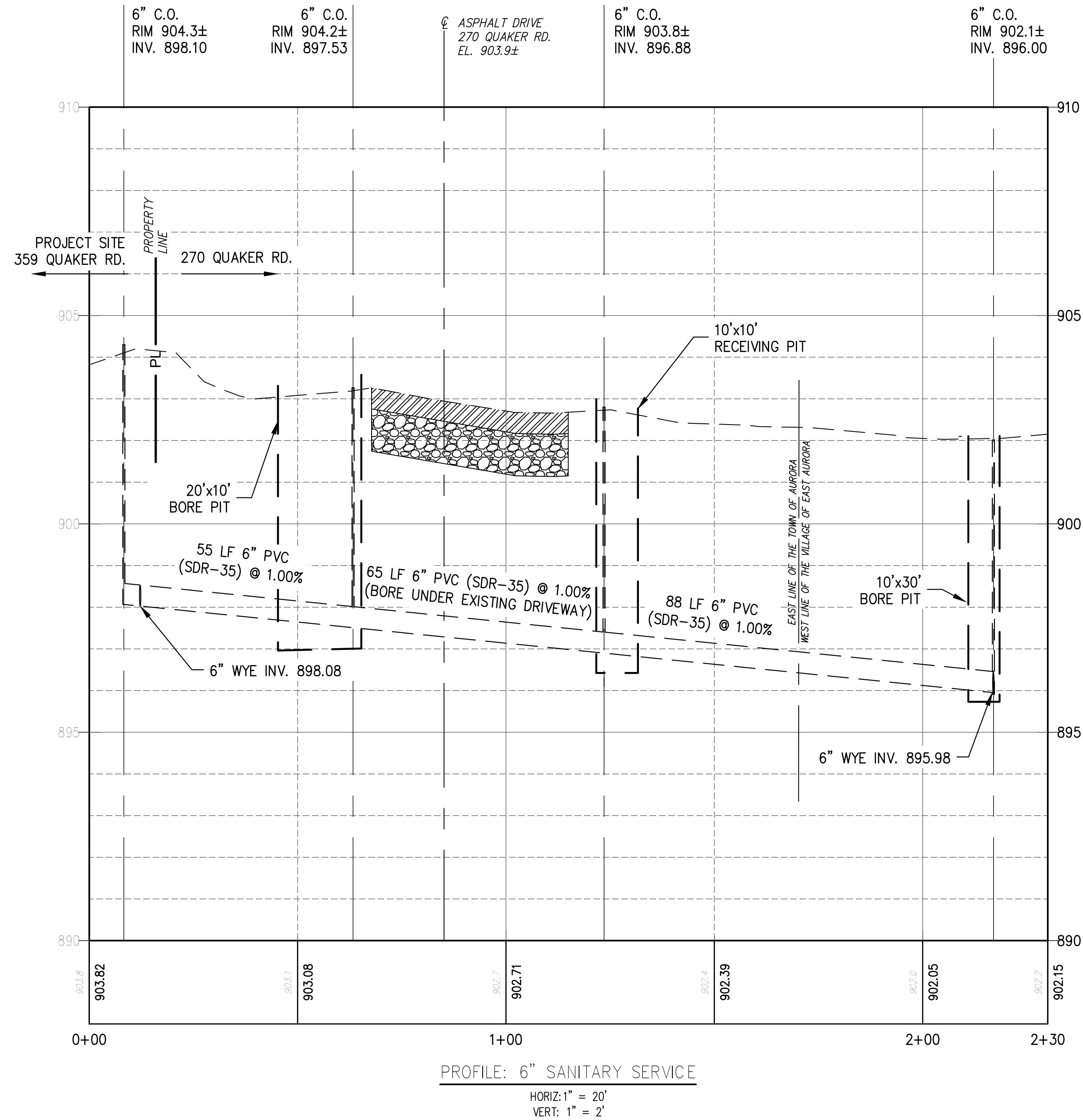
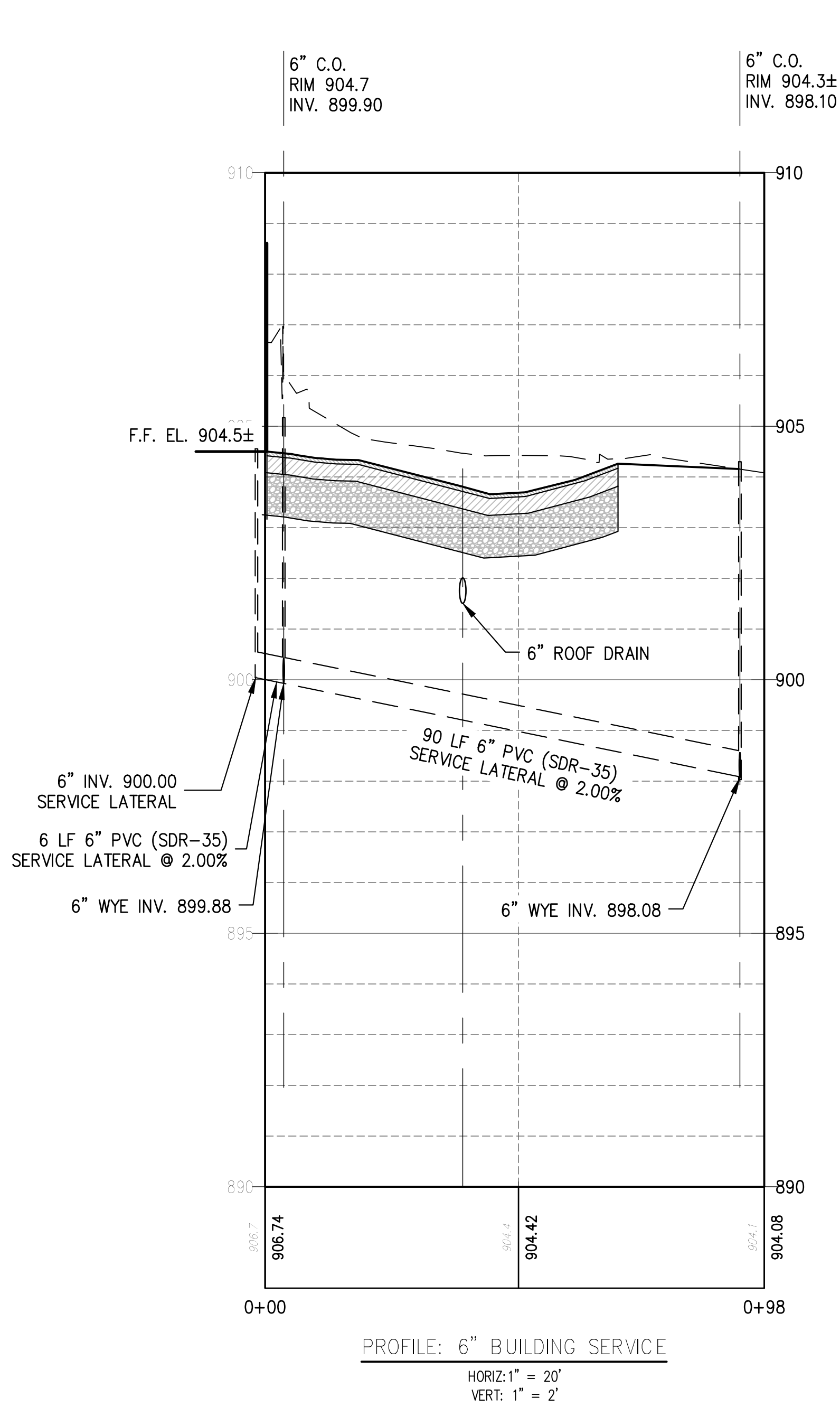
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SANITARY SEWER & UTILITY PLAN REVIEW SET NOT ISSUED FOR CONSTRUCTION	
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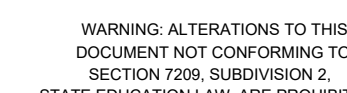
SANITARY SEWER PROFILES

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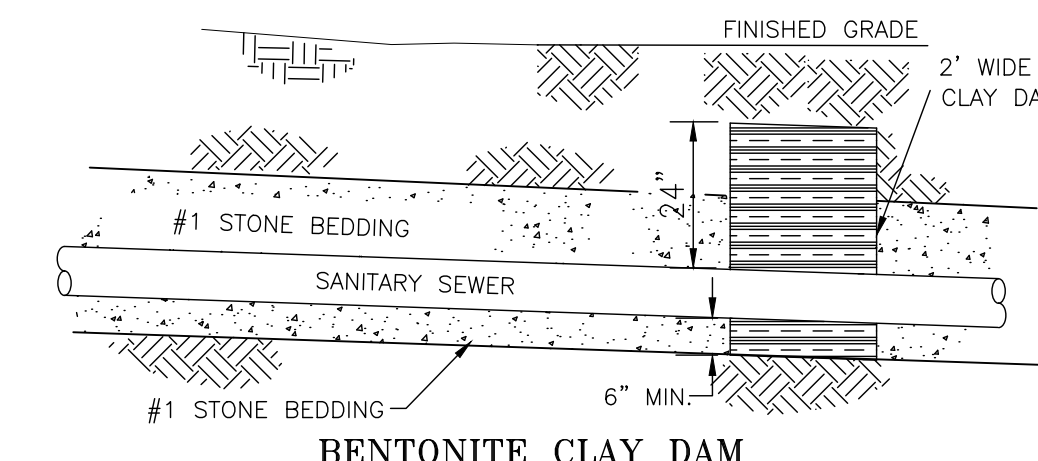
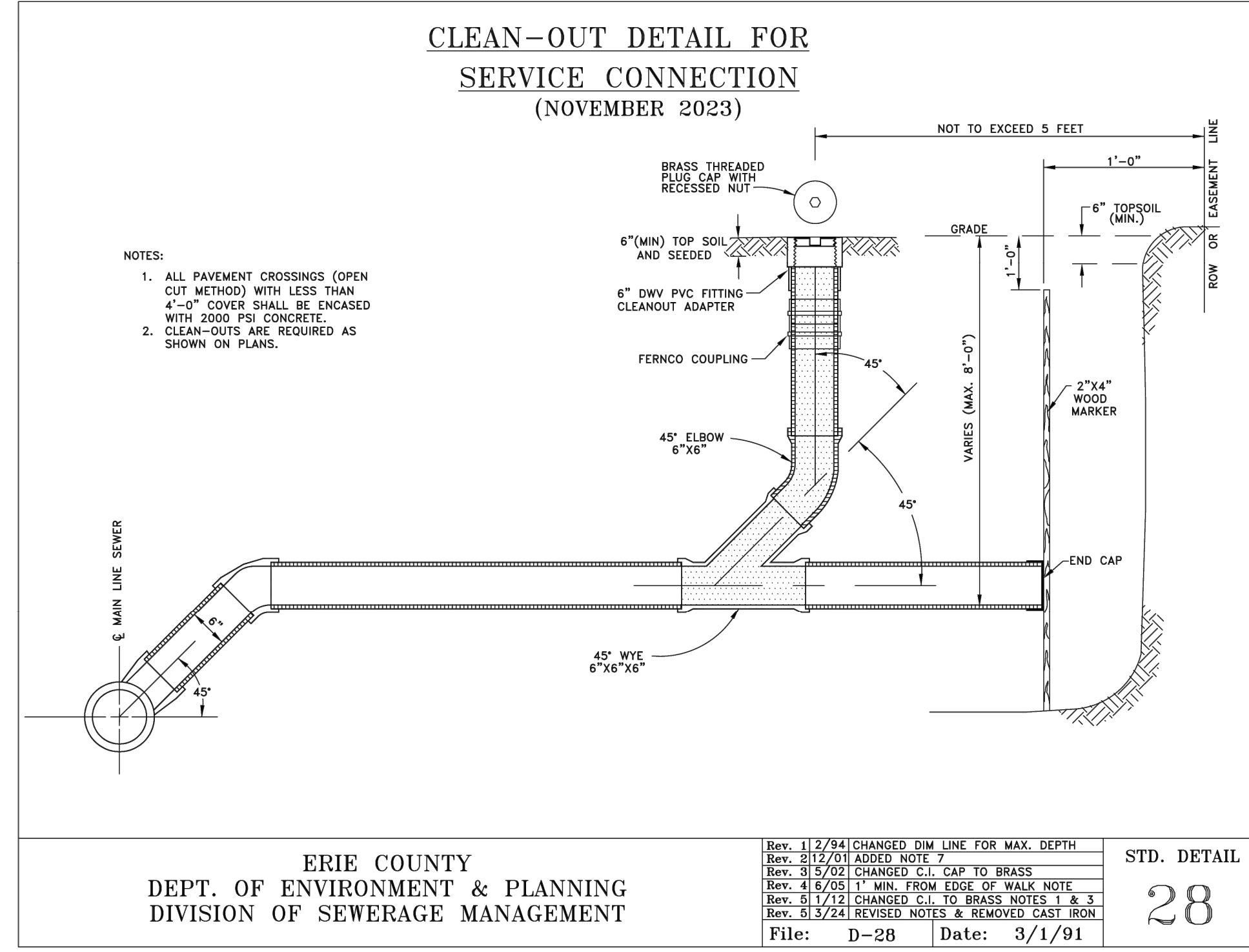
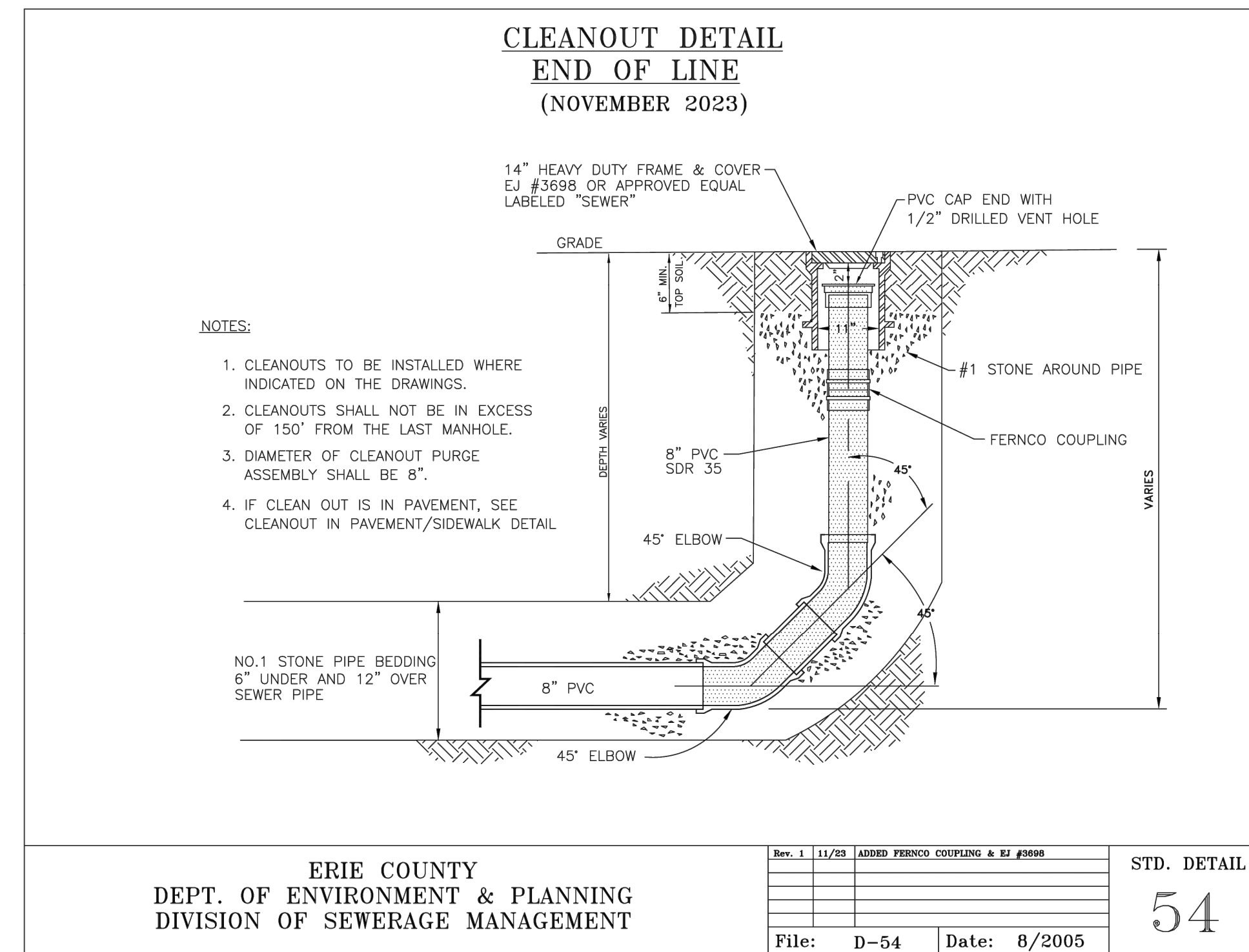
SANITARY DETAILS
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SEWER TESTING METHODS

LEAKAGE TESTS

1. THE TEST PERIOD WHEREIN THE MEASUREMENTS ARE TAKEN SHALL NOT BE LESS THAN 24 HOURS REGARDLESS OF THE TEST METHOD USED.
2. THE TOTAL LEAKAGE OF ANY SECTION TESTED BY ANY TEST METHOD SHALL NOT EXCEED THE RATE OF 100 GALLONS PER MILE OF PIPE PER 24 HOURS PER INCH OF NORMAL PIPE DIA.
3. MANHOLES SHALL BE CONSIDERED AS SECTIONS OF 48" DIAMETER PIPE AND THE EQUIVALENT LEAKAGE ALLOWANCE SHALL BE COMPUTED PER NOTE 2 USING THE SUBMERGED HEIGHT OF MANHOLE AS THE LENGTH.
4. WHEN MANHOLES ARE TESTED SEPARATELY, ALL PIPE OPENINGS SHALL BE PLUGGED AND THE TEST PROCEDURES AND CRITERIA SHALL BE APPLIED IN THE SAME MANNER AS FOR THOSE TESTS INVOLVING ONLY THE PIPE OR A COMBINATION OF PIPE AND MANHOLES.

INFILTRATION TEST

1. THIS TEST METHOD MAY ONLY BE USED WHEN GROUND WATER LEVELS ARE AT LEAST TWO (2) FEET ABOVE THE TOP OF THE PIPE FOR THE ENTIRE LENGTH OF THE SECTION TO BE TESTED DURING THE ENTIRE PERIOD OF THE TESTS.
2. GROUND WATER LEVELS MAY BE MEASURED IN STANDPIPES PREVIOUSLY PLACED IN BACKFILLED TRENCHES DURING BACKFILLING.
3. THE NUMBER OF STANDPIPES REQUIRED AND LOCATION OF THE SAME ARE TO BE AS ORDERED BY THE ENGINEER. STANDPIPES ARE TO BE 4" DIAMETER SOLID PVC DRAIN PIPE AS TO PERMIT THE INSERTION OF A RULE OR LEVEL ROD. CRUSHED STONE SHALL BE PLACED AROUND THE LOWER OPEN ENDS OF THE STANDPIPES.
4. STANDPIPES TO BE REMOVED AT THE SATISFACTORY COMPLETION OF THE TEST.

EXFILTRATION TEST

1. THIS TEST CONSISTS OF FILLING THE PIPE WITH WATER TO PROVIDE A HEAD OF AT LEAST TWO (2) FEET ABOVE THE TOP OF THE PIPE OR ABOVE GROUND WATER WHICHEVER IS HIGHER AT THE HIGHEST POINT OF THE PIPE LINE UNDER TEST, AND THEN MEASURING THE LOSS OF WATER TO MAINTAIN THE ORIGINAL LEVEL.
2. IN THIS TEST, THE PIPELINE MUST BE FILLED WITH WATER AND ALLOWED TO REMAIN SO FILLED FOR A LEAST 24 HOURS PRIOR TO TAKING MEASUREMENTS.
3. REGARDING GROUND WATER MEASUREMENTS: SEE NOTES 2 THROUGH ABOVE.
4. REGARDING THE TEST STANDPIPE: THERE MUST BE SOME POSITIVE METHOD OF RELEASING ENTRAPPED AIR IN THE SEWER PRIOR TO TAKING MEASUREMENTS.

DEFLECTION TEST

1. ALL FLEXIBLE (PVC) SEWERS 8" OR LARGER CONSTRUCTED UNDER THIS PROJECT SHALL BE INTERNALLY CHECKED, NO EARLIER THAN 30 CALENDAR DAYS AFTER THE TRENCHES ARE BACKFILLED, WITH FIVE PERCENT (5%) DEFLECTION "GO-NO-GO PIG" OR MANDREL TO DETERMINE IF THE PIPES ARE DEFLECTING EXCESSIVELY. ANY SECTION OF PIPE UNABLE TO PASS THE DEFLECTION TEST "PIG TEST" SHALL BE REMOVED AND REPLACED.

DEFLECTION TESTING MANDRELS OR PIG SHALL BE PULLED THRU THE PIPE BY HAND OR HAND OPERATED WINCH. POWER WINCHES OR DRIVES ARE NOT PERMITTED.

AIR TESTS

1. AIR TESTS ARE TO BE CONDUCTED IN ALL SECTIONS BETWEEN MANHOLES PER ERIE COUNTY SEWER DISTRICT AIR TEST SPECIFICATIONS.
2. EXFILTRATION/INFILTRATION AIR TESTS SHALL BE PERFORMED NO EARLIER THAN 14 CALENDAR DAYS AFTER THE TRENCH IS BACKFILLED.

RELATION TO WATER MAINS

HORIZONTAL AND VERTICAL SEPARATION

SEWERS SHALL BE LAID AT LEAST 10 FEET (3 M) HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A 10 FOOT (3 M) SEPARATION, THE APPROPRIATE REVIEWING AGENCY MAY ALLOW DEVIATION ON A CASE-BY-CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE SEWER CLOSER TO A WATER MAIN, PROVIDED THAT THE WATER MAIN IS IN SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES (457 MM) ABOVE THE TOP OF THE SEWER.

IF IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS DESCRIBED ABOVE, BOTH THE WATER MAIN AND SEWER MUST BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT PIPE COMPLYING WITH PUBLIC WATER SUPPLY DESIGN STANDARDS OF THE AGENCY AND BE PRESSURE TESTED TO 150 PSI (1034 kPa) TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING.

CROSSINGS

SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES (457 MM) BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE.

WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS STIPULATED ABOVE, ONE OF THE FOLLOWING METHODS MUST BE SPECIFIED:

- A. THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER PIPE, AND SHALL BE PRESSURE TESTED AT 150 PSI (1034 kPa) TO ASSURE WATER TIGHTNESS PRIOR TO BACKFILLING.
- B. EITHER THE WATER MAIN OR THE SEWER LINE MAY BE ENCASED IN A WATERTIGHT CARRIER PIPE WHICH EXTENDS 10 FEET (3M) ON BOTH SIDES OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN. THE CARRIER PIPE SHALL BE OF MATERIALS APPROVED BY THE REGULATORY AGENCY FOR USE IN WATER MAIN CONSTRUCTION.

GENERAL NOTES

1. THE ERIE COUNTY DIVISION OF SEWERAGE MANAGEMENT WHO OPERATES AND MAINTAINS THE EXISTING SEWER LINES AND APPURTENANCES WITHIN COUNTY DISTRICTS ARE TO BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION.
2. THE MANHOLE COVERS ARE TO BEAR THE INSCRIPTION "ECSD SANITARY".
3. SEWER SHALL BE LAID WITH STRAIGHT ALIGNMENT BETWEEN MANHOLES AND SHALL BE CHECKED BY USING A LASER BEAM OR LAMPING.
4. THE CONTRACTOR SHALL COMPLY IN ALL RESPECTS TO THE INDUSTRIAL CODE PART (RULE NO. 53) RELATING TO THE CONSTRUCTION, EXCAVATION AND DEMOLITION OPERATIONS AT OR NEAR UNDERGROUND FACILITIES, AS ISSUED BY THE STATE OF NEW YORK DEPARTMENT OF LABOR, BOARD OF STANDARD AND APPEALS.
5. THE SANITARY SEWER PIPE SHALL BE P.V.C. SEWER PIPE CONFORMING TO THE LATEST REVISIONS OF A.S.T.M. DESIGNATION D-3034, SDR-35, INSTALLED IN ACCORDANCE WITH THE A.S.T.M. DESIGNATION D-2321-B3A OR THE LATEST REVISION THEREOF OR APPROVED EQUAL.
6. SANITARY SEWER BEDDING MATERIAL SHALL BE NO. 1 CRUSHED STONE WITH A GRADATION CONFORMING TO THE DEP STANDARDS.
7. SHOULD A FLUID CONDITION BE ENCOUNTERED AT THE TRENCH BOTTOM, THE CONTRACTOR IS TO UNDERCUT THE TRENCH AND PROVIDE SUITABLE FILL MATERIAL (STONE/FABRIC) TO STABILIZE THE TRENCH BOTTOM.
8. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AHEAD OF THE PIPE LAYING OPERATION, SO THAT, IF MINOR ADJUSTMENTS MUST BE MADE IN ELEVATION AND/OR ALIGNMENT DUE TO INTERFERENCE FROM THESE UTILITIES, SAID CHANGES CAN BE MADE IN ADVANCE OF THE WORK.

GENERAL NOTES FOR
SANITARY SEWER CONSTRUCTION
WITHIN ERIE COUNTY SEWER DISTRICTS

1. THE ERIE COUNTY DIVISION OF SEWERAGE MANAGEMENT (DSM), WHO OPERATES AND MAINTAINS THE EXISTING SEWER LINES AND APPURTENANCES WITHIN ERIE COUNTY SEWER DISTRICTS (ECSD), IS TO BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION.

2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR ERIE COUNTY SEWER DISTRICTS.

3. ALL PERMITS REQUIRED BY THE FEDERAL, STATE, COUNTY, CITY AND/OR TOWN GOVERNMENTS TO PERFORM WORK MUST BE OBTAINED PRIOR TO THE START OF WORK, AND PAID FOR BY THE CONTRACTOR.

4. IF EASEMENT AND/OR OUT OF DISTRICT AGREEMENTS ARE REQUIRED, THEY MUST BE COMPLETE AND READY TO BE FILED BEFORE THE PROJECT WILL BE APPROVED FOR CONSTRUCTION.

5. THE CONTRACTOR SHALL COMPLY IN ALL RESPECTS TO THE INDUSTRIAL CODE PART (RULE NO.) 53 RELATING TO CONSTRUCTION, EXCAVATION, AND DEMOLITION OPERATIONS AT OR NEAR UNDERGROUND FACILITIES, AS ISSUED BY THE STATE OF NEW YORK DEPARTMENT OF LABOR, BOARD OF STANDARD AND APPEALS.

6. THE CONSTRUCTION OF THE SANITARY SEWER FACILITIES SHALL BE UNDER THE SUPERVISION OF A PERSON OR FIRM QUALIFIED TO PRACTICE PROFESSIONAL ENGINEERING IN NEW YORK STATE UNDER THE EDUCATION LAW OF THE STATE, WHENEVER ENGINEERING SERVICES ARE REQUIRED BY SUCH LAW FOR SUCH PURPOSES.

7. WHERE SUCH SANITARY SEWER FACILITIES ARE UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER, HE SHALL CERTIFY TO THE DSM AND TO THE APPLICANT THAT THE CONSTRUCTED FACILITIES HAVE BEEN UNDER HIS SUPERVISION AND THAT THE WORK HAS BEEN FULLY COMPLETED IN ACCORDANCE WITH THE APPROVED ENGINEERING REPORTS, PLANS, SPECIFICATIONS, AND APPROVALS.

8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR AL SITE SAFETY. THE CONTRACTOR'S EQUIPMENT AND METHODS OF OPERATION SHALL BE IN FULL COMPLIANCE WITH OSHA STANDARDS AND SATISFY ALL FEDERAL, STATE AND LOCAL HEALTH AND SAFETY REGULATIONS.

9. THE CONTRACTOR IS ADVISED A TRENCH SHIELD AND/OR SHORING DESIGNED IN ACCORDANCE WITH OSHA STANDARDS SHALL BE USED IN ALL OPEN TRENCH EXCAVATIONS.

10. ANY CONTRACTOR AND/OR PLUMBER PERFORMING WORK IN A CONFINED SPACE (I.E. MANHOLES, WETWELLS, AND CHAMBERS) OWNED BY AN ERIE COUNTY SEWER DISTRICT, MUST CERTIFY TO THE COUNTY THAT THEY HAVE THEIR OWN CONFINED SPACE ENTRY PROGRAM THAT MEETS OR EXCEEDS OSHA'S REGULATIONS. CERTIFICATION MUST BE NOTARIZED NY A NOTARY PUBLIC.

11. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AHEAD OF THE PIPE LAYING OPERATION, SO IF MINOR ADJUSTMENTS MUST BE MADE IN THE PIPE ELEVATION AND/OR ALIGNMENT DUE TO INTERFERENCE FROM THESE UTILITIES, SAID CHANGES CAN BE MADE IN ADVANCE OF THE WORK.

12. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED TREE EXPERT TO REMOVE, WHERE NECESSARY, BRANCHES WHICH INTERFERE WITH CONSTRUCTION OPERATION, OR TO REPAIR TREES HAVING SUFFERED DAMAGE BY CONSTRUCTION ACTIVITIES. THE COST INVOLVED IS TO BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.

13. THE SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE (PVC) SEWER PIPE CONFORMING TO THE LATEST REVISIONS OF AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) DESIGNATION D-3034, SDR-35, INSTALLED IN ACCORDANCE WITH THE ASTM DESIGNATION D-2321-B3A OR THE LATEST REVISION THEREOF, OR APPROVED EQUAL.

14. SEWER SHALL BE LAID WITH STRAIGHT ALIGNMENT BETWEEN MANHOLES AND SHALL BE CHECKED BY USING A LASER BEAM OR LAMPING.

15. SHOULD A FLUID CONDITION BE ENCOUNTERED AT THE TRENCH BOTTOM, THE CONTRACTOR IS TO UNDERCUT THE TRENCH AND PROVIDE SUITABLE FILL MATERIAL (STONE & FABRIC) TO STABILIZE THE TRENCH BOTTOM.

16. SANITARY SEWER BEDDING MATERIAL SHALL BE NO. 1 CRUSHED STONE WITH A GRADATION CONFORMING TO DSM SPECIFICATIONS FOR SUBDIVISIONS AND SANITARY SEWER EXTENSIONS.

17. BACKFILL SHALL BE OF SUITABLE MATERIAL REMOVED FROM THE EXCAVATION EXCEPT WHERE OTHER MATERIAL IS SPECIFIED. DEBRIS, FROZEN MATERIAL, LARGE CLOUDS OR STONES, ORGANIC MATTER, OR OTHER UNSTABLE MATERIALS SHALL NOT BE USED FOR BACKFILL WITHIN TWO (2)' FEET OF THE TOP OF THE PIPE.

18. ALL PIPES CROSSING UNDER PAVED AREAS ARE TO BE BACKFILLED TO SUB-GRADE WITH COMPACTED SELECT MATERIAL (NO. 2 CRUSHED STONE) TO FIVE (5)' FEET ABOVE THE PAVEMENT EDGES OR AS REQUIRED BY THE HIGHWAY PERMIT. IF ANY PROPOSED SEWER RUNS UNDER PAVED AREAS AND HAS LESS THAN FOUR (4) FEET OF COVER, THEN CONCRETE ENCASEMENT IS REQUIRED AS SHOWN ON THE DSM TYPICAL CONCRETE ENCASEMENT DETAIL.

19. SEWERS PARALLEL TO WATERMAINS - TEN STATE STANDARDS, LATEST EDITION, CHAPTER 30, SECTION 38.31, AND PAGE 30-11: SEWERS SHALL BE LAID AT LEAST TEN (10)' FEET (THREE (3) METERS) HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A TEN (10)' FOOT SEPARATION, THE APPROPRIATE REVIEWING AGENCY MAY ALLOW DEVIATION ON A CASE-BY-CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE SEWER CLOSER TO A WATER MAIN, PROVIDED THAT THE WATER MAIN IS IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST 18-INCHES (460 MM) ABOVE THE TOP OF THE SEWER.

IF IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS DESCRIBED ABOVE, BOTH THE WATER MAIN AND SEWER MUST BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT PIPE COMPLYING WITH PUBLIC WATER SUPPLY DESIGN STANDARDS OF THE REGULATORY AGENCY AND BE PRESSURE TESTED TO 150 POUNDS PER SQUARE INCH (PSI) (1034 kPa) TO ASSURE WATER TIGHTNESS PRIOR TO BACKFILLING.

20. SEWERS CROSSING WATERMAINS - TEN STATE STANDARDS, LATEST EDITION, CHAPTER 30, SECTION 38.32, PAGE 30-11 TO 30-12: SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18-INCHES (460 MM) BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE.

21. WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS STIPULATED ABOVE, ONE OF THE FOLLOWING METHODS MUST BE SPECIFIED:

- A. THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER PIPE, AND SHALL BE PRESSURE TESTED AT 150 PSI (1034 kPa) TO ASSURE WATER TIGHTNESS PRIOR TO BACKFILLING.
- B. EITHER THE WATER MAIN OR THE SEWER LINE MAY BE ENCASED IN A WATERTIGHT CARRIER PIPE WHICH EXTENDS TEN (10)' FEET (THREE (3) METERS) ON BOTH SIDES OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN. THE CARRIER PIPE SHALL BE OF MATERIALS APPROVED BY THE REGULATORY AGENCY FOR USE IN WATER MAIN CONSTRUCTION.
- C. THE SEWER SHALL BE ENCASED IN CONCRETE PER THE DSM WATERMAIN CROSSING DETAIL TYPICAL FOR ENCASEMENT.

22. THE MANHOLE COVERS ARE TO BEAR THE INSCRIPTION "ECSD SANITARY" AND COMPLY WITH THE DSM STANDARD FRAME AND COVER DETAIL. FOR PRIVATE PROJECTS THE COVERS SHALL BEAR THE INSCRIPTION "SANITARY SEWER" AND COMPLY WITH THE DSM STANDARD FRAME AND COVER (PRIVATE SEWER) DETAIL.

23. BUILDING SANITARY SEWER VENTS MUST BE INSTALLED SIX (6) INCHES ABOVE FINISHED GRADE IN A GRASSY AREA WITH A MUSHROOM CAP. IF THE VENT IS IN A SIDEWALK OR PAVED AREA, THEN PROTECT WITH 6" DIAMETER BOLLARDS (2 MINIMUM).

24. CLEANNOUTS (C.O.) ARE REQUIRED ON 4" AND 6" BUILDING SEWERS EVERY FIFTY FEET AND ONE HUNDRED FEET RESPECTIVELY, AND AT EVERY CHANGE IN ALIGNMENT.

25. ABANDONED BUILDING SEWER CONNECTIONS FROM THE SITE, IF ANY, REQUIRE PROOF OF A DISTRICT PERMIT FOR DISCONNECTIONS PRIOR TO THE NEW CONNECTION BEING MADE.

26. THE FOLLOWING PERTAINS ONLY FOR DIRECT REPLACEMENT OF IN SERVICE SANITARY SEWERS:

- A. EACH NEW PIPE JOINT SHALL BE ULTRASONIC TESTED AFTER IT IS LAID, BUT BEFORE THE NEXT PIPE IS LAID. ALL TESTS SHALL BE IN ACCORDANCE WITH THE TESTING EQUIPMENT MANUFACTURE RECOMMENDATIONS.
- B. THE ULTRASONIC TEST SHALL BE PERFORMED IN LIEU OF THE HYDROSTATIC AND AIR TESTS.
- C. A VIDEO INSPECTION OF THE ENTIRE SEWER SHALL BE PERFORMED. FORWARD THE VIDEO INSPECTION TAPE AND RELATED PAPERWORK TO DSM FOR REVIEW AND APPROVAL.
- D. A DEFLECTION TEST IS REQUIRED IN ALL CASES.

27. FOR ALL SANITARY SEWER INSTALLATIONS, A WRITTEN CERTIFICATE OF CONSTRUCTION COMPLETENESS AND COMPLIANCE, INCLUDING THE RESULTS OF THE HYDROSTATIC LEAKAGE TEST, LAMP TEST, DEFLECTION TEST, AIR TEST, ETC. SHALL BE SUBMITTED TO THE ERIE COUNTY HEALTH DEPARTMENT AND DSM WITHIN THIRTY (30) DAYS AFTER COMPLETION OF CONSTRUCTION.

28. FOR ALL PUBLIC AND PRIVATE 8" OR LARGER SANITARY SEWER INSTALLATIONS, THE DEVELOPER/CONTRACTOR MUST PROVIDE ONE (1) SET OF RECORD DRAWINGS ON "D" SIZE PAPER (24"x36") AND IN AN ELECTRONIC FILE FORMAT (CD) COMPATIBLE WITH AUTOCAD, RELEASE 2007.

29. ALL PUBLIC SEWER EXTENSION PROJECTS THAT CONSIST OF MORE THAN 750 LF OF 8" PIPE OR LARGER, SHALL FURNISH A 2 YEAR MAINTENANCE BOND TO THE DSM.

30. FINAL CERTIFICATION WILL BE ISSUED UPON THE FULL COMPLETENESS AND COMPLIANCE OF THE PROJECT INCLUDING ANY REQUIREMENT(S) OF 1/1 REMEDIAL WORK.

9. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED TREE EXPERT TO REMOVE, WHERE NECESSARY, BRANCHES WHICH INTERFERE WITH THE CONSTRUCTION OPERATION, OR TO REPAIR TREES HAVING SUFFERED DAMAGE BY CONSTRUCTION ACTIVITIES. THE COST INVOLVED IN THE ABOVE IS TO BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.

10. ALL PIPES CROSSING UNDER PAVED AREAS ARE TO BE BACKFILLED TO SUBGRADE WITH COMPACTED SELECT MATERIAL (2" ROC STONE) TO 5' OUTSIDE THE PAVEMENT EDGES OR AS REQUIRED BY THE HIGHWAY PERMIT.

11. A WRITTEN CERTIFICATE OF CONSTRUCTION COMPLIANCE, INCLUDING THE RESULTS OF HYDROSTATIC LEAKAGE TEST, LAMP TEST, DEFLECTION TEST, AIR TEST, ETC., SHALL BE SUBMITTED TO THE ERIE COUNTY HEALTH DEPARTMENT WITHIN THIRTY (30) DAYS AFTER CONSTRUCTION COMPLETION.

1. ALIGNMENT

- A. IN GENERAL, SEWERS 24 INCHES (610 MM) OR LESS SHALL BE LAID WITH STRAIGHT ALIGNMENT BETWEEN MANHOLES. STRAIGHT ALIGNMENT SHALL BE CHECKED BY EITHER USING A LASER BEAM OR LAMPING. CURVILINEAR ALIGNMENT OF SEWERS LARGER THAN 24 INCHES (610 MM) MAY BE CONSIDERED ON A CASE-BY-CASE BASIS PROVIDING COMPRESSION JOINTS ARE SPECIFIED AND ASTM OR SPECIFIC PIPE MANUFACTURERS' MAXIMUM ALLOWABLE PIPE JOINT DEFLECTION LIMITS ARE NOT EXCEEDED. CURVILINEAR SEWERS SHALL BE LIMITED TO SIMPLE CURVES WHICH START AND END AT MANHOLES. WHEN CURVILINEAR SEWERS ARE PROPOSED, MINIMUM SLOPES INDICATED IN PARAGRAPH 33.41 MUST BE INCREASED ACCORDINGLY TO PROVIDE A RECOMMENDED MINIMUM VELOCITY OF 2.0 FEET/SECOND (0.61 M/S) WHEN FLOWING FULL.

2. FINAL BACKFILL

- A. FINAL BACKFILL SHALL BE OF A SUITABLE MATERIAL REMOVED FROM EXCAVATION EXCEPT WHERE OTHER MATERIAL IS SPECIFIED. DEBRIS, FROZEN MATERIAL, LARGE CLOUDS OR STONES, ORGANIC MATTER, OR OTHER UNSTABLE MATERIALS SHALL NOT BE USED FOR FINAL BACKFILL WITHIN 2 FEET (610 MM) OF THE TOP OF THE PIPE.

- B. FINAL BACKFILL SHALL BE PLACED IN SUCH A MANNER AS NOT TO DISTURB THE ALIGNMENT OF THE PIPE.

3. THE CONSTRUCTION OF THE FACILITIES SHALL BE UNDER THE SUPERVISION OF A PERSON OR FIRM QUALIFIED TO PRACTICE PROFESSIONAL ENGINEERING IN NEW YORK STATE UNDER THE EDUCATION LAW OF THE STATE, WHENEVER ENGINEERING SERVICES ARE REQUIRED BY SUCH LAW FOR SUCH PURPOSE.

4. WHERE SUCH FACILITIES ARE UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER, HE SHALL CERTIFY TO THE DEPARTMENT AND TO THE APPLICANT THAT THE CONSTRUCTED FACILITIES HAVE BEEN UNDER HIS SUPERVISION AND THAT THE WORK HAS BEEN FULLY COMPLETED IN ACCORDANCE WITH THE APPROVED ENGINEERING REPORTS, PLANS, SPECIFICATIONS AND APPROVALS.

5. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR THE ERIE COUNTY SEWER DISTRICTS.

6. "ANY CONTRACTOR AND/OR PLUMBER PERFORMING WORK IN A CONFINED SPACE (I.E. MANHOLES, WETWELLS, CHAMBERS) OWNED BY AN ERIE COUNTY SEWER DISTRICT, MUST CERTIFY TO THE COUNTY THAT THEY HAVE THEIR OWN CONFINED SPACE ENTRY PROGRAM THAT MEETS OR EXCEEDS OSHA'S REGULATIONS. CERTIFICATION MUST BE NOTARIZED BY A NOTARY PUBLIC".

"THE CONTRACTOR IS ADVISED A TRENCH SHIELD AND/OR SHORING DESIGNED IN ACCORDANCE WITH OSHA STANDARDS SHALL BE USED IN ALL OPEN TRENCH EXCAVATIONS".

E.C.S.D. SPECIFICATIONS
SECTION - 02595

3.02 AIR TESTS, INFILTRATION OR EXFILTRATION AND
DEFLECTION REQUIREMENTS

A. REQUIREMENTS

1. AFTER BACKFILLING AND PRIOR TO THE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE FOLLOWING FOUR TESTS ON ALL SEWERS BUILT UNDER THIS PROJECT:

- a) AIR TESTS
- b) INFILTRATION OR EXFILTRATION
- c) DEFLECTION TEST (15" DIA. AND SMALLER)

2. NO MORE THAN 1,000 LINEAR FEET OF INSTALLED SEWER SHALL BE ALLOWED TO REMAIN UNTESTED.

3. IN VIEW OF THE FACT THAT HOUSE LATERALS AND RISER PIPES OFTEN CONTRIBUTE CONSIDERABLE INFILTRATION, SUCH LATERALS AND RISERS ARE TO BE INSTALLED AND CAPPED, TIED AND BLOCKED AS THE WORK PROGRESSES, PRIOR TO THE AIR TESTING OF THE LINES.

4. THE CONTRACTOR'S TESTING PROCEDURES SHALL BE COMPLETED IN ACCORDANCE WITH OSHA STANDARDS FOR CONFINED SPACE ENTRY. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE AND OPERATE ALL EQUIPMENT NECESSARY FOR FULL COMPLIANCE FOR HIS OPERATION. EQUIPMENT SUCH AS GAS DETECTORS, SAFETY HARNESSSES, VENTILATING BLOWERS, RESPIRATORS, ETC., SHALL BE PROVIDED BY THE CONTRACTOR.

- B. AIR TESTS (REQUIRED FOR ALL DIAMETERS UP TO AND INCLUDING 36") 10 STATE STANDARDS SECTION 33.94

1. THIS TEST SHALL BE PERFORMED NO EARLIER THAN 14 CALENDAR DAYS AFTER THE TRENCHES ARE BACKFILLED.
2. THE PROCEDURE FOR AIR TESTING SHALL BE AS SPECIFIED HEREIN. THE MINIMUM ALLOWABLE TIME FOR THE TEST PRESSURE TO DECREASE FROM 3.5 PSI TO 3.0 PSI SHALL BE NOT LESS THAN AS CALLED FOR IN THE FOLLOWING TABLE:

MINIMUM ACCEPTANCE TIMES* FOR LENGTH SHOWN (MIN:SEC)				
PIPE DIAMETER	UP TO 100'	100 - 200'	200 - 300'	300 - 400'
6"	2:50	2:50	2:50	2:51
8"	3:47	3:47	3:48	5:04
10"	4:43	4:43	5:46	7:54
12"	5:40	5:42	8:33	11:24
15"	7:05	8:54	13:21	17:48
18"	8:30	12:49	19:14	25:38
21"	9:55	17:27	26:11	34:54
24"	11:24	22:48	34:11	45:35
27"	14:25	28:51	43:16	57:42
30"	17:48	35:37	53:25	71:13
33"	21:33	43:56	64:38	86:10
36"	25:39	51:17	76:55	102:34

*Erie County Sewer District Inspector will extend time to the next full minute during the test.

3. PIPE LINES IN SIZES UP TO 36 INCHES IN DIAMETER CAN BE AIR TESTED FROM MANHOLE TO MANHOLE FOR DISTANCES NOT TO EXCEED 400 FEET.

GPI

Engineering
Design
Planning
Construction Management

716) 832-4844

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Buffalo, NY, 14225

GPI.NET.COM

PREPARED FOR

PCW Enterprises, LLC
4185 East Blood Road
Cowlesville, NY 14037

359 QUAKER ROAD
MEDICAL OFFICES

359 Quaker Road
Town of Aurora, NY 14052



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SANITARY DETAILS
3

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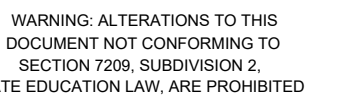
NOTE:

ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH ECDEP-DSM, ECSD #8

A PRE-CONSTRUCTION MEETING IS REQUIRED A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL THE ERIE COUNTY SEWER DISTRICT NO. 8 OFFICE AT (716) 823-8188. TO ARRANGE A MEETING.

**359 QUAKER ROAD
MEDICAL OFFICES**

359 Quaker Road
Town of Aurora, NY 14052



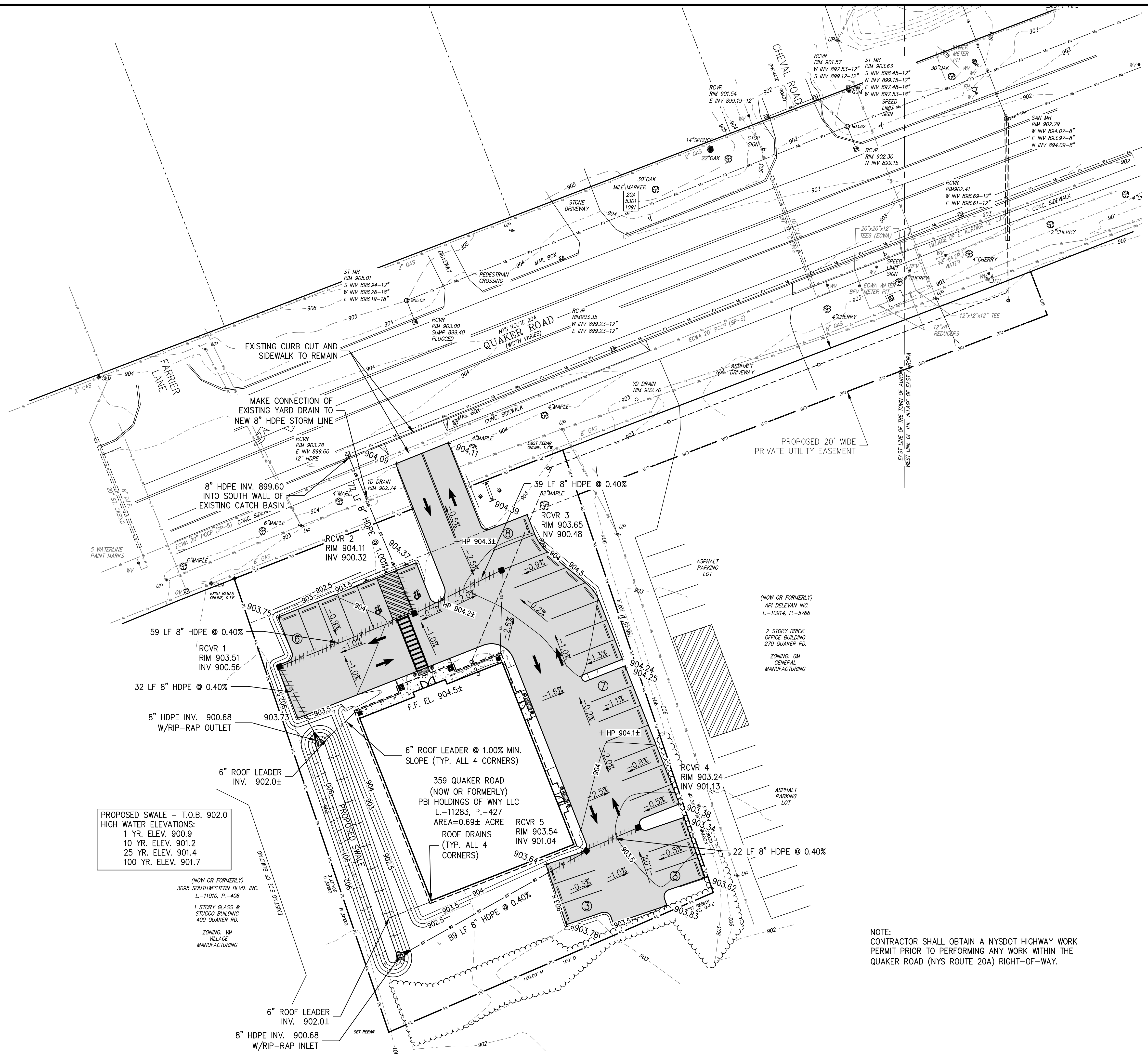
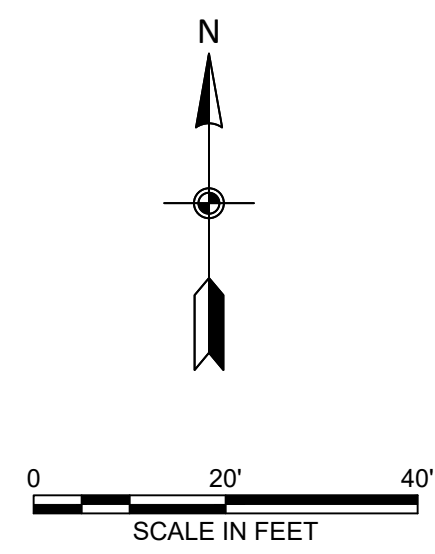
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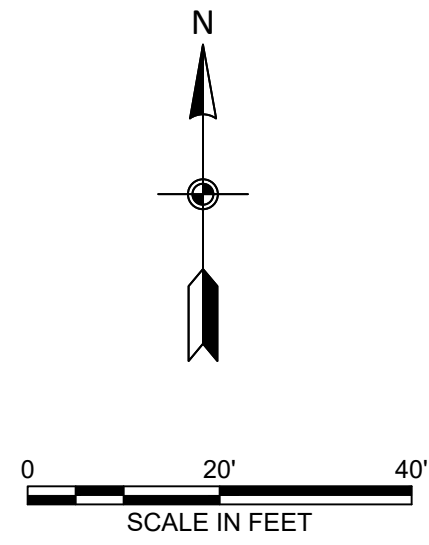


NOTE:
CONTRACTOR SHALL OBTAIN A NYSDOT HIGHWAY WORK PERMIT PRIOR TO PERFORMING ANY WORK WITHIN THE QUAKER ROAD (NYS ROUTE 20A) RIGHT-OF-WAY.



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N:\2025\WNY-2500056.00 359 QUAKER ROAD SITE PLAN (CAD) Design Plans\EROSION & SEDIMENT CONTROL PLAN.dwg Monday, 22 December 2025 3:11PM



CHECK DAM
FILTER FABRIC DROP
INLET PROTECTION
LAND GRADING
SILT FENCE
CONSTRUCTION FENCE
PERMANENT SEEDING

KEY

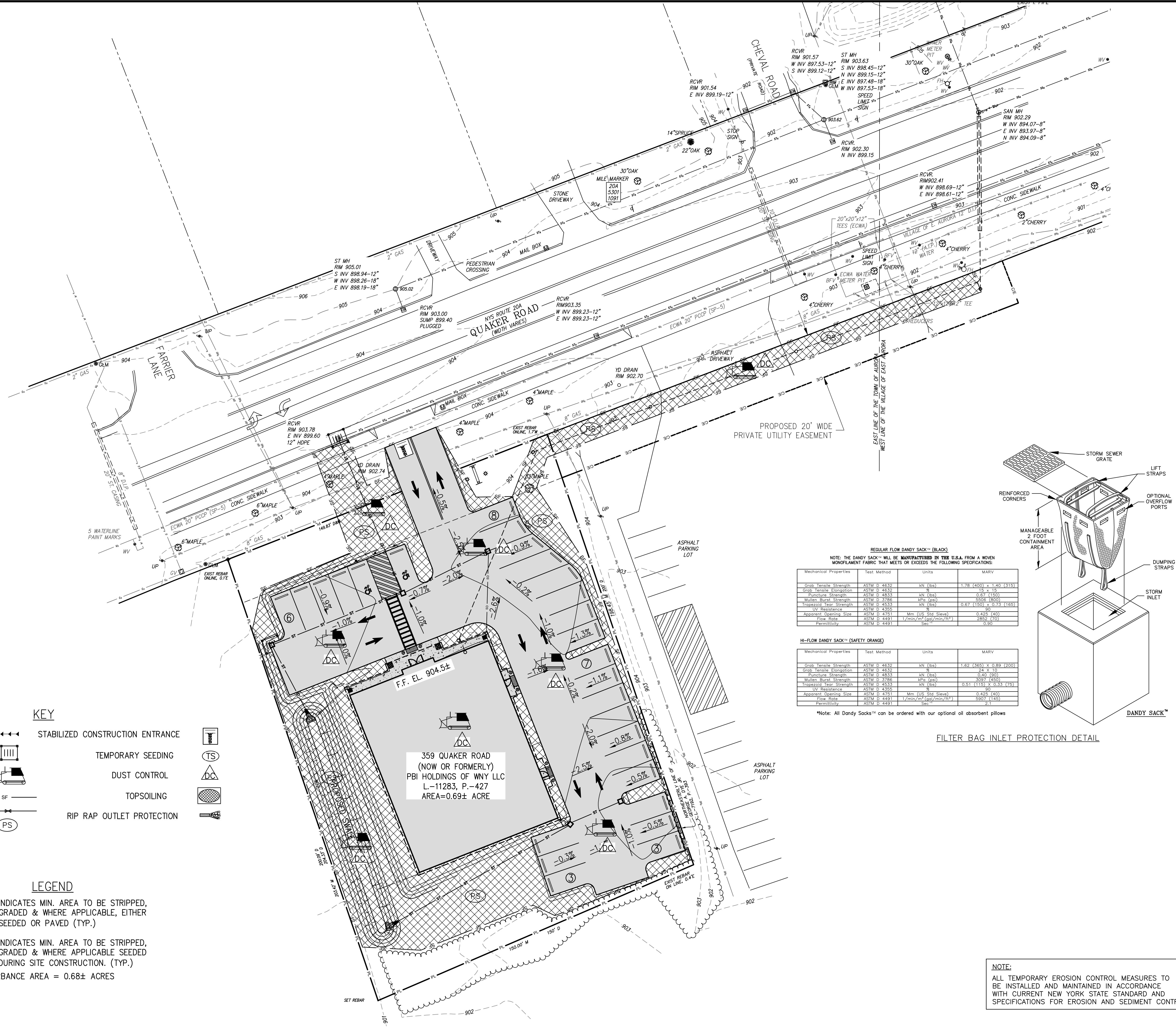
STABILIZED CONSTRUCTION ENTRANCE
TEMPORARY SEEDING
DUST CONTROL
TOPSOILING
RIP RAP OUTLET PROTECTION

LEGEND

INDICATES MIN. AREA TO BE STRIPPED, GRADED & WHERE APPLICABLE, EITHER SEEDED OR PAVED (TYP.)

INDICATES MIN. AREA TO BE STRIPPED, GRADED & WHERE APPLICABLE SEEDED DURING SITE CONSTRUCTION. (TYP.)

SITE DISTURBANCE AREA = 0.68± ACRES



REGULAR FLOW DANDY SACK™ (BLACK)

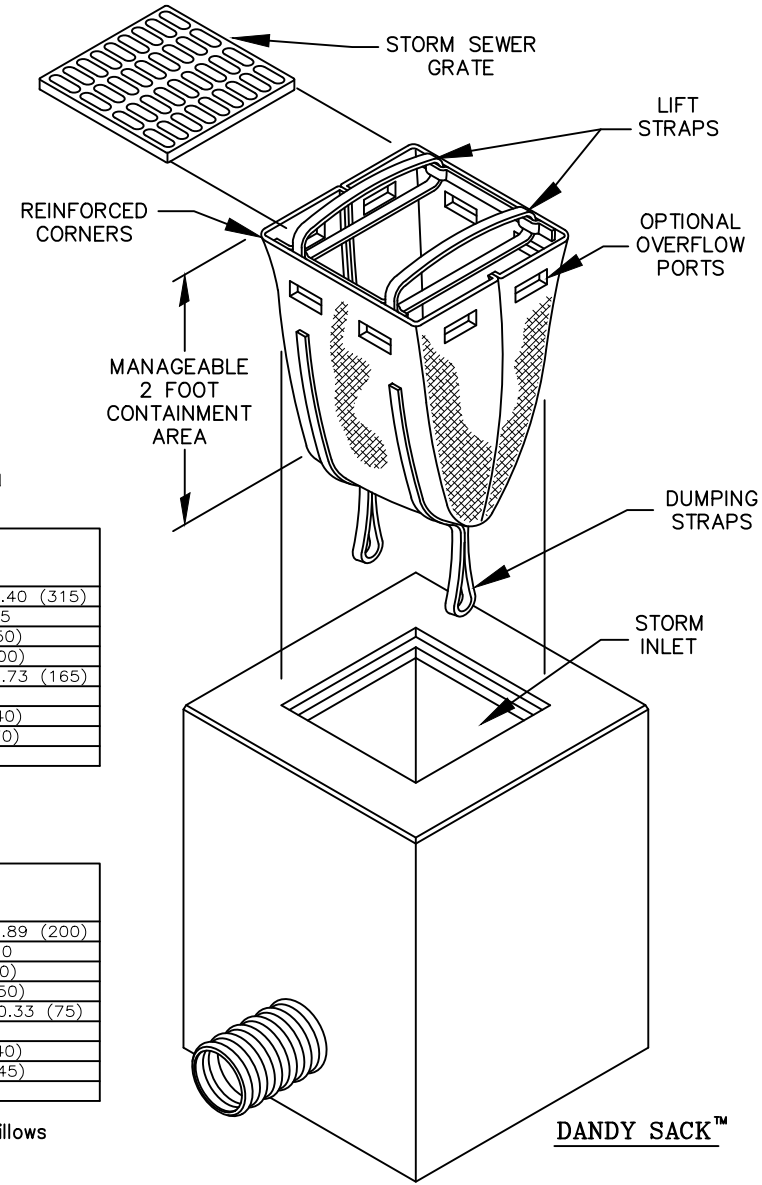
NOTE: THE DANDY SACK™ WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4832	kN (lbf)	1.78 (400) x 1.40 (315)
Grab Tensile Elongation	ASTM D 4832	%	15 x 15
Puncture Strength	ASTM D 4833	kN (lbf)	0.67 (150)
Mullen Burst Strength	ASTM D 3786	kPa (lbf/ft²)	1008 (1800)
Trapezoid Tear Strength	ASTM D 4533	kN (lbf)	0.67 (150) x 0.75 (165)
UV Resistance	ASTM D 4355	%	80
Apparent Opening Size	ASTM D 4751	mm (US Std. Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	2852 (70)
Permeability	ASTM D 4491	Sec.	0.90

H-FLow DANDY SACK™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4832	kN (lbf)	1.62 (365) x 0.89 (200)
Grab Tensile Elongation	ASTM D 4832	%	24 x 10
Puncture Strength	ASTM D 4833	kN (lbf)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (lbf/ft²)	597 (1450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbf)	0.51 (115) x 0.33 (75)
UV Resistance	ASTM D 4355	%	80
Apparent Opening Size	ASTM D 4751	mm (US Std. Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	5907 (145)
Permeability	ASTM D 4491	Sec.	2.1

*Note: All Dandy Sacks™ can be ordered with our optional oil absorbent pillows



FILTER BAG INLET PROTECTION DETAIL

NOTE:
ALL TEMPORARY EROSION CONTROL MEASURES TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CURRENT NEW YORK STATE STANDARD AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.

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WARNING: ALTERATIONS TO THIS DOCUMENT NOT CONFORMING TO SECTION 7209, SUBDIVISION 2, STATE EDUCATION LAW, ARE PROHIBITED

REVISIONS

DATE	NO.	REVISION

October 2025

DRAWN/DESIGN BY: DV
CHECKED BY: PC

EROSION & SEDIMENT CONTROL PLAN

REVIEW SET NOT ISSUED FOR CONSTRUCTION

SCALE: As Noted

WNY-2500056.00

POLLUTION PREVENTION

1. THE FOLLOWING GENERAL NOTES PROVIDE A DESCRIPTION OF POLLUTION PREVENTION MEASURES UTILIZED TO CONTROL LITTER, CONSTRUCTION CHEMICALS, CONSTRUCTION DEBRIS, AND STORAGE PRACTICES FROM BECOMING A POLLUTANT SOURCE TO STORMWATER DISCHARGES, AS WELL AS SPILL PREVENTION AND RESPONSE MEASURES.

2. MATERIAL DELIVERY AND STORAGE:

A. LOCATE MATERIAL STORAGE AND DELIVERY AREAS AT A MINIMUM DISTANCE OF 100 FEET AWAY FROM ANY DRAIN INLET AND SURFACE WATER BODIES.

B. KEEP INVENTORY LOW.

C. STORE DRY CHEMICALS AND BAGGED MATERIALS ON PALLETS.

D. STORE ALL FLAMMABLE PRODUCTS AWAY FROM ANY HEAT AND/OR IGNITION SOURCE.

E. PROVIDE SECONDARY CONTAINMENT FOR LIQUIDS.

F. KEEP DESIGNATED STORAGE AREAS CLEAN AND WELL ORGANIZED. CONDUCT WEEKLY INSPECTIONS TO CHECK FOR DAMAGED CONTAINERS, LEAKS, ETC.

G. COMPLY WITH STATE AND LOCAL REQUIREMENTS FOR STORAGE OF HAZARDOUS WASTE.

H. DURING THE WET SEASON, COVER CHEMICALS, DRUMS, AND BAGGED MATERIALS TO PREVENT CONTACT WITH RAINWATER (E.G. TARPPS, BINS, STRUCTURES).

I. DURING THE WET SEASON, COVER SECONDARY CONTAINMENT AREAS TO PREVENT ACCUMULATION OF WATER.

J. KEEP CHEMICALS LABELED AND IN ORIGINAL CONTAINERS.

K. TRAIN EMPLOYEES AND CONTRACTORS ON THE PROPER USE OF STORAGE AREA.

3. SPILL PREVENTION AND CONTROL:

A. NOTIFY ALL CONSTRUCTION WORKERS OF THE LOCATION OF MATERIALS UTILIZED FOR CLEANING UP SPILLS.

B. STORE SPILL CLEANUP MATERIALS ON SITE AND NEAR POTENTIAL SPILL AREAS.

C. KEEP COMMERCIALY AVAILABLE SPILL KITS FOR CONSTRUCTION EQUIPMENT ON SITE.

D. KEEP DRUMS, BARRELS, TEMPORARY STORAGE BAGS, OR EQUIVALENT MATERIALS FOR CONTAINMENT AND TRANSPORTATION ON SITE.

E. KEEP ABSORBENT PADS, OIL BOOMS, MAT, OR EQUIVALENT MATERIALS ON SITE.

F. KEEP WASHABLE, REUSABLE RAGS FOR CLEANING UP SMALL LUBRICANT LEAKS ON SITE.

G. TRAIN EMPLOYEES AND SUBCONTRACTORS ON PROPER SPILL PREVENTION AND CONTROL METHODS.

H. NEVER HOSE DOWN OR BURY DRY MATERIAL SPILLS. CLEANUP AS MUCH AS POSSIBLE AND DISPOSE OF PROPERLY.

I. IN THE EVENT OF A SPILL OCCURRENCE, THE FOLLOWING ACTIONS ARE TO BE TAKEN:

1. DOCUMENT THE SPILL AND REPORT TO THE PROJECT CONSTRUCTION MANAGER AND ENVIRONMENTAL MONITOR.

2. FOR SPILLS LESS THAN 5 GALLONS ON AN IMPERVIOUS SURFACE, ATTEMPT TO CONFINED AND CLEAN THE SPILL.

3. FOR SPILLS GREATER THAN 5 GALLONS, ATTEMPT TO CONFINED THE SPILL AND CALL A REMEDIATION CONTRACTOR IF ASSISTANCE IS REQUIRED WITH PRODUCT RECOVERY AND CONTAINMENT.

4. FOR SPILLS GREATER THAN 5 GALLONS, REPORT TO NYSDEC REGION 9 SPILL PREVENTION AND RESPONSE (716-851-7220) WITHIN TWO HOURS OF DISCOVERY.

5. PROVIDE WRITTEN DOCUMENTATION OF THE SPILL.

6. DISPOSAL OF RECOVERED MATERIALS MUST BE CONDUCTED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.

J. TRAIN EMPLOYEES AND SUBCONTRACTORS TO USE PROPER SOLID WASTE MANAGEMENT.

4. SOLID WASTE MANAGEMENT:

A. PROVIDE AS MANY WASTE BINS AS NEEDED TO KEEP SITE CLEAN OF LITTER AND WASTE.

B. DURING THE WET SEASON, WASTE BINS MUST BE COVERED TO PREVENT RUNOFF FROM TRASH.

C. COLLECT TRASH ON A DAILY BASIS.

D. ARRANGE FOR REGULAR WASTE COLLECTION BY A LICENSED TRASH HAULER.

E. SEGREGATE AND RECYCLE WASTE MATERIALS (E.G. PAINTS, SOLVENTS, OIL, ETC.)

F. PROVIDE COVERED WASTE BINS FOR DISPOSAL OF ALL EMPTY PRODUCTS (E.G. PAINTS, SOLVENTS, GLUES, PESTICIDES, ETC.)

G. LOCATE WASTE CONTAINER STORAGE AREA(S) AT A MINIMUM DISTANCE OF 100 FEET AWAY FROM ANY DRAIN INLET AND SURFACE WATER BODIES.

H. PROVIDE SECONDARY CONTAINMENT FOR HAZARDOUS WASTE CONTAINERS.

I. COMPLY WITH ALL LOCAL AND STATE SOLID WASTE DISPOSAL AND NUISANCE REQUIREMENTS.

J. DO NOT HOSE OUT WASTE CONTAINERS ON SITE.

K. TRAIN EMPLOYEES AND SUBCONTRACTORS TO USE PROPER SOLID WASTE MANAGEMENT.

5. VEHICLE/EQUIPMENT MAINTENANCE:

A. DO NOT DISCHARGE VEHICLE/MACHINERY WASH WATERS OR SOLVENTS TO STORM DRAINS OR TO SURFACE WATER BODIES.

B. LOCATE AREAS FOR FUELING AND MAINTENANCE AT A MINIMUM DISTANCE OF 100- FEET AWAY FROM ANY DRAIN INLET AND SURFACE WATER BODIES.

C. ANY EQUIPMENT WHICH MUST BE REFUELED IN THE FIELD WILL BE REFUELED FROM TANKS CARRIED TO THE WORK SITE BY TRUCK.

D. PREVENT SPILLS AND LEAKS DURING FUELING AND MAINTENANCE OPERATIONS.

E. INSPECT AND MAINTAIN VEHICLES REGULARLY TO MINIMIZE LEAKS AND DRIPS; PLACE DRIP PANS OR ABSORBENT MATERIALS UNDER LEAK-PRONE MACHINERY WHEN IDLE.

F. COMPLY WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR FUEL STORAGE TANKS.

6. LANDSCAPING OPERATIONS:

A. CAREFULLY FOLLOW RECOMMENDED USAGE INSTRUCTIONS FOR THE APPLICATION OF ALL FERTILIZER. DISPOSAL OF TREES, BRUSH, OR OTHER DEBRIS IN ANY STREAM CORRIDOR, WETLAND, OR SURFACE WATER IS PROHIBITED. AVOID APPLICATIONS OF FERTILIZERS PRIOR TO STORM EVENTS. APPLY FERTILIZERS IN MULTIPLE SMALLER APPLICATIONS, AS OPPOSED TO ONE LARGE APPLICATION. TRAIN EMPLOYEES AND SUBCONTRACTORS IN THE PROPER USE OF LANDSCAPE MATERIALS AND CHEMICALS.

7. CONCRETE WASTE MANAGEMENT:

A. AVOID MIXING EXCESS AMOUNTS OF CONCRETE OR FRESH CEMENT ON SITE.

B. STORE CONCRETE, GROUT, AND MORTAR UNDER COVER AND AWAY FROM DRAINAGE AREAS.

C. DESIGNATE A WASH OUT AREA ON SITE AND INSURE THAT MATERIAL CAN NOT FLOW TO STORM DRAINS, OPEN DITCHES, STREETS, OR SURFACE WATER BODIES BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA.

D. CONCRETE FROM WASHOUT AREA SHOULD BE ALLOWED TO SET. UPON COMPLETION OF THE CONCRETE WORK, THE CONTRACTOR SHALL BREAK UP, REMOVE, AND HAUL AWAY SOLID CONCRETE THAT HAS ACCUMULATED IN THE WASHOUT.

E. TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER CONCRETE WASTE MANAGEMENT.

8. SANITARY/SEPTIC WASTE MANAGEMENT:

A. LOCATE SANITARY FACILITIES FOR CONVENIENT ACCESS AND AT A MINIMUM OF 100 FEET AWAY FROM DRAIN INLETS AND SURFACE WATER BODIES.

B. UNTREATED RAW WASTEWATER MAY NOT BE DISCHARGED TO LAND, THE STORM DRAIN SYSTEM, OR TO SURFACE WATER BODIES.

C. SANITARY/SEPTIC FACILITIES SHOULD BE MAINTAINED IN GOOD WORKING ORDER BY A LICENSED SERVICE.

D. ARRANGE REGULAR WASTE COLLECTION BY A LICENSED HAULER BEFORE FACILITIES OVERFLOW.

E. IF WASHING OUT OF INTERIOR OR PORTABLE TOILETS IS NEEDED, INSURE THAT WASH WATER IS DISCHARGED TO LAND AND DOES NOT FLOW INTO STREET, THE STORM DRAIN SYSTEM, OR SURFACE WATER BODIES.

GENERAL ENVIRONMENTAL NOTES AND RESTRICTIONS

GENERAL NOTES:

1. THE CONTRACTOR SHALL HAVE KNOWLEDGE OF, AND WORK IN COMPLIANCE WITH THE TERMS AND CONDITIONS STATED IN THE PERMITS ISSUED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC), AND IS SUBJECT TO THE SANCTIONS FOR VIOLATIONS OF SUCH PERMITS.

2. ALL ACTIVITIES AUTHORIZED UNDER THE PERMITS ISSUED BY THE NYSDEC MUST BE IN STRICT CONFORMANCE WITH THE DETAILS DEPICTED ON THE EROSION AND SEDIMENT CONTROL PLANS.

3. NONE OF THE ISSUED PERMITS ALLOW FOR THE RIGHT TO TRESPASS UPON THE LANDS OR INTERFERE WITH THE PROPERTY AND/OR RIPARIAN RIGHTS OF LANDOWNERS THAT ARE NOT PARTICIPANTS OF THE PROJECT.

4. THE CONTRACTOR SHALL NOTE THE CONDITION OF ANY EXISTING FENCE THAT MAY BE IMPACTED BY PROJECT CONSTRUCTION. FENCES THAT MUST BE REMOVED AND/OR CUT WILL HAVE A TEMPORARY GATE INSTALLED. UPON COMPLETION OF CONSTRUCTION, THE TEMPORARY GATE WILL BE REMOVED AND THE FENCE WILL BE REBUILT TO LIKE-NEW CONDITION AS DIRECTED BY THE LANDOWNER.

5. LOCAL FIRE DEPARTMENTS AND EMERGENCY MANAGEMENT TEAMS SHALL BE MADE AWARE OF HAZARDOUS CHEMICALS AND WASTE ON-SITE.

6. REPRESENTATIVES FROM THE NYSDEC SHALL BE PERMITTED TO INSPECT THE SITE AT ANY TIME DEEMED NECESSARY, TO ENSURE THAT ALL ACTIVITIES ARE IN ACCORDANCE WITH THE TERMS AND CONDITIONS SPECIFIED IN THE ISSUED PERMITS.

7. CROSSING OF EXISTING GAS TRANSMISSION PIPELINES OR ANY OTHER EXISTING UNDERGROUND UTILITY BY HEAVY EQUIPMENT SHALL BE RESTRICTED TO IMPROVED GRAVEL ACCESS ROAD CROSSINGS.

8. ALL CONSTRUCTION ACTIVITY, INCLUDING OPERATION OF MACHINERY, EXCAVATION, FILLING, GRADING, CLEARING OF VEGETATION, DISPOSAL OF WASTE, AND STOCKPILING OF MATERIAL MUST TAKE PLACE WITHIN THE APPROVED WORK AREA AS DEPICTED ON THE EROSION AND SEDIMENT CONTROL PLANS.

9. FUGITIVE DUST RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE MINIMIZED BY IMPLEMENTING APPROPRIATE CONTROL MEASURES. THESE MEASURES MAY INCLUDE THE APPLICATION OF MULCH, WATER, STONE, OR APPROVED CHEMICAL AGENTS ON ACCESS ROADS, EXPOSED SOILS, STOCKPILED SOILS, OR UNPAVED PUBLIC ROADS WHEN DRY AND WINDY CONDITIONS EXIST. A WATERING VEHICLE SHALL BE AVAILABLE FOR THE DURATION OF PROJECT ACTIVITIES, INCLUDING THROUGHOUT RESTORATION.

10. BLASTING IS NOT PERMITTED WITHOUT PRIOR TOWN APPROVAL AND ACQUISITION OF ALL REQUIRED PERMITS.

11. NOISE IMPACTS SHALL BE MINIMIZED AND MITIGATED TO THE EXTENT PRACTICABLE. CONTRACTOR SHALL MAINTAIN ALL EQUIPMENT IN GOOD OPERATING CONDITIONS AND ALL MOTORS AND ENGINES WILL BE MUFFLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND WILL COMPLY WITH STATE ENVIRONMENTAL LAW, SUBCHAPTER E, PART 450 (NOISE FROM HEAVY MOTOR VEHICLES). ANY FAULTY NOISE SUPPRESSOR WILL BE REPAIRED OR REPLACED, EQUIPMENT WILL NOT BE LEFT RUNNING UNNECESSARILY, AND EXISTING TALL GROWING VEGETATION WILL BE MAINTAINED, TO THE MAXIMUM EXTENT PRACTICABLE, TO SERVE AS A NOISE BUFFER.

12. CONSTRUCTION ACTIVITY WILL ONLY OCCUR BETWEEN THE HOURS OF 7:00 A.M. AND 6:00 P.M. MONDAY THROUGH SATURDAY. AT THE DISCRETION OF THE TOWN OF CHEEKTOWAGA, WORK HOURS MAY BE EXPANDED.

13. WITHIN 100 FEET OF STATE-REGULATED WETLANDS AND 50 FEET OF OTHER WATER BODIES, REMOVE ONLY THE MINIMUM VEGETATION NECESSARY TO ALLOW CONSTRUCTION AND OPERATION OF THE FACILITY.

14. THE DISPOSAL OF TREES, BRUSH, OR OTHER DEBRIS IN ANY STREAM CORRIDOR, WETLAND, OR SURFACE WATER IS PROHIBITED.

15. CULVERTS SHALL BE SUFFICIENT SIZE AND CAPACITY TO PREVENT ALTERATION OF THE NATURAL FLOW. REFER TO CONSTRUCTION DRAWINGS FOR CULVERT SIZES.

16. THE USE OF EQUIPMENT IN ANY STREAM OR WETLAND AREA, UNLESS PERMITTED, IS STRICTLY PROHIBITED.

17. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRECLUDE CONTAMINATION OF ANY WETLAND OR WATERWAY BY SUSPENDED SOLIDS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, PAINTS, CONCRETE, LEACHATE, OR ANY OTHER ENVIRONMENTALLY DELETERIOUS MATERIALS ASSOCIATED WITH THE PROJECT. THESE MATERIALS SHALL BE STORED A MINIMUM OF 100 FEET FROM ANY WETLAND, STREAM, DITCH, WATERCOURSE, OR DRAINAGE. NO EQUIPMENT RE-FUELING SHALL OCCUR WITHIN THE SAME 100-FOOT AREA.

18. STREAMS AND WETLANDS WILL BE PROTECTED FROM INDIRECT IMPACTS DURING CONSTRUCTION BY UTILIZING VARIOUS EROSION AND SEDIMENT CONTROL MEASURES INDICATED IN THE EROSION AND SEDIMENT CONTROL PLANS, INCLUDING SILT FENCES PLACED BETWEEN WATER RESOURCE BOUNDARIES AND CONSTRUCTION AREAS. EXPOSED SOIL WILL BE SEEDED AND/OR MULCHED, AS SOON AS PRACTICABLE, TO ASSURE THAT EROSION AND SILTATION IS KEPT TO A MINIMUM ALONG STREAM AND WETLANDS BOUNDARIES.

19. TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED AS SOON AS PRACTICABLE AND APPROPRIATE, AS INDICATED IN THE EROSION AND SEDIMENT CONTROL PLANS. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY GRADING OR FILLING OPERATIONS AND INSTALLATIONS OF PROPOSED STRUCTURES OR UTILITIES. THEY SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE AND THE AREA IS STABILIZED AND/OR RE-VEGETATED. ADDITIONALLY, NO SITE PREPARATION WORK SHALL BE UNDERTAKEN UNTIL ALL REQUIRED EROSION CONTROL MEASURE HAVE BEEN INSTALLED.

20. SILTATION PREVENTION MEASURES, SUCH AS SILT FENCING AND STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, TO PREVENT MOVEMENT OF SILT AND TURBID WATERS FROM THE PROJECT SITE AND INTO ANY WATERCOURSE, STREAM, WATER BODY, OR WETLAND. THESE MEASURES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND THE AREA IS STABILIZED AND/OR RE-VEGETATED.

21. ALL DISTURBED AREAS WHERE SOIL WILL BE TEMPORARILY EXPOSED OR STOCKPILED FOR LONGER THAN ONE WEEK SHALL BE CONTAINED BY A CONTINUOUS LINE OF SILT FENCE PLACED ON THE DOWN SLOPE SIDE BETWEEN THE FILL AND WETLAND OR STATE-REGULATED 100-FOOT ADJACENT AREA. TARPS ARE AUTHORIZED TO SUPPLEMENT THESE APPROVED METHODS.

22. ALL AREAS OF SOIL DISTURBANCE RESULTING FROM THIS PROJECT SHALL BE STABILIZED IMMEDIATELY FOLLOWING PROJECT COMPLETION OR PRIOR TO NYSDEC PERMIT EXPIRATION, WHICHEVER COMES FIRST. THE NYSDEC APPROVED METHODOLOGIES AREA AS FOLLOWS:

A. STABILIZATION OF THE ENTIRE DISTURBED AREA WITH APPROPRIATE VEGETATION (GRASSES, ETC.)

B. TEMPORARILY STABILIZATION WITH STRAW MULCH OR JUTE MATTING OR OTHER SIMILAR NATURAL FIBER MATTING WITHIN ONE WEEK OF FINAL GRADING. TEMPORARY STABILIZATION SHALL BE MAINTAINED UNTIL A MATURE VEGETATIVE COVER IS ESTABLISHED

23. VISIBLE TURBID DISCHARGES FROM LAND CLEARING, GRADING OR EXCAVATING ACTIVITIES, OR DE-WATERING OPERATIONS SHALL NOT ENTER A STREAM, NAVIGABLE WATER, OR WETLAND. PRIOR TO ENTRY IN A STREAM, NAVIGABLE WATER, OR WETLAND, ANY SUCH DISCHARGE SHALL BE:

A. RETAINED IN AN APPROPRIATELY MAINTAINED UPLAND SETTLING BASIN

B. FILTERED THROUGH CRUSHED STONE, SAND, STRAW BALES, SILT SCREENING (MAXIMUM OPENING SIZE OF U.S. SIEVE NUMBER 20), ETC. OR;

C. DIRECTED TO A GRASSY UPLAND AREA SUFFICIENT DISTANCE FROM THE STREAM TO PREVENT CHANGE IN TURBIDITY OF THE RECEIVING WATER.

24. IN THE EVENT THAT ARCHAEOLOGICAL MATERIALS, HUMAN REMAINS, OR EVIDENCE OF HUMAN BURIALS ARE ENCOUNTERED DURING CONSTRUCTION, ALL WORK IN THE VICINITY OF THE FIND SHALL BE IMMEDIATELY HALTED, THE FIND PROTECTED FROM FURTHER DAMAGE, AND THE CONSTRUCTION MANAGER AND ENVIRONMENTAL MONITOR ADVISED. THE PERMITEE IS REQUIRED TO NOTIFY THE LOCAL POLICE AND THE STATE HISTORIC PRESERVATION OFFICE IMMEDIATELY FOLLOWING SUCH A DISCOVERY.

SPILL PREVENTION, CONTAINMENT, & COUNTER-MEASURES NOTES

1. GENERAL: PERSONNEL RESPONSIBLE FOR THE OVERSIGHT OF THE PETROLEUM PRODUCTS AND HAZARDOUS OR CONTROLLED SUBSTANCES INCLUDE:

A. CONSTRUCTION MANAGER

B. JOB-SITE COORDINATORS DESIGNATED BY THE CONSTRUCTION MANAGER

2. SPILLS SHALL BE IMMEDIATELY REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR WILL KEEP AN UP-TO-DATE LIST OF QUALIFIED EMERGENCY RESPONSE CONTRACTORS WITH THE CAPABILITY OF REACHING THE PROJECT SITE QUICKLY. IN THE EVENT THAT A SPILL OCCURS ON THE SITE, THE FOLLOWING NOTIFICATION PROCEDURE WILL BE FOLLOWED.

A. CONSTRUCTION TEAM LEADER NOTIFIES THE CONSTRUCTION MANAGER.

B. CONSTRUCTION MANAGER NOTIFIES THE INSPECTOR DESIGNATED BY THE TOWN OF AURORA.

C. CONSTRUCTION MANAGER NOTIFIES THE OWNER AT (716) 886 -3400.

D. THE OWNER NOTIFIES NYSDEC REGION 9 SPILL PREVENTION AND RESPONSE (716-851-7220).

PETROLEUM PRODUCTS & HAZARDOUS / CONTROLLED SUBSTANCES

1. PETROLEUM PRODUCTS AND HAZARDOUS OR CONTROLLED SUBSTANCES SHALL BE STORED AT THE TEMPORARY STORAGE AND STAGING AREA. IT IS ANTICIPATED THAT THE FOLLOWING HAZARDOUS OR CONTROLLED SUBSTANCES AND PETROLEUM PRODUCTS MAY BE STORED ON SITE IN REGULATORY APPROVED STORAGE CONTAINERS.

A. GASOLINE

B. DIESEL FUEL

C. EQUIPMENT OILS AND LUBRICANTS

D. COMMERCIAL FERTILIZER

2. THE PLAN AND DETAILS SHOWN ARE INTENDED TO BE USED AS A GUIDE. ANY REVISIONS DEEMED NECESSARY SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.

3. THE CONTROL MEASURES THAT CAN BE UTILIZED UTILIZED DURING THE PROJECT ARE SUMMARIZED BELOW:

A. SILT FENCE: FENCE SHALL BE INSTALLED AROUND SOIL STOCKPILES, WHERE ROADWAY CUT/FILL SLOPES ARE LOCATED WITHIN 100 FEET OF WATERCOURSES, AT THE LOCATION OF UTILITY LINE STREAM CROSSINGS, AND BETWEEN WETLAND BOUNDARIES AND CONSTRUCTION AREAS.

B. STABILIZED CONSTRUCTION ENTRANCE: STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED WHERE ALL ACCESS ROADS INTERSECT LOCAL, COUNTY OR STATE ROADS.

C. TEMPORARY SWALE: A TEMPORARY SWALE IS TO BE CONSTRUCTED TO PREVENT RUNOFF FROM ENTERING DISTURBED AREAS BY INTERCEPTING AND DIVERTING IT TO A STABILIZED OUTLET OR TO INTERCEPT SEDIMENT LADEN WATER AND DIVERT IT TO A SEDIMENT TRAPPING DEVICE.

D. EARTH DIKE: EARTH DIKES CAN ALSO BE INSTALLED FOR DIVERTING CLEAN WATER AWAY FROM DISTURBED AREAS AND/OR INTERCEPT AND DIRECT SEDIMENT LADEN WATER TO A SEDIMENT TRAPPING DEVICE.

E. SEDIMENT TRAP: SEDIMENT TRAPS ARE INSTALLED IN DRAINAGE WAYS, NATURAL OR TEMPORARY, BY EXCAVATION AND/OR EMBANKMENT TO INTERCEPT SEDIMENT LADEN RUNOFF AND RETAIN THE SEDIMENT.

F. SEDIMENT FILTER BAG: SEDIMENT FILTER BAGS SHALL BE USED TO FILTER WATER PUMPED FROM OPEN EXCAVATIONS. SEDIMENT FILTER BAGS SHALL BE USED DURING CULVERT INSTALLATIONS AND AT INTERCONNECT STREAM CROSSINGS.

G. WATERING VEHICLE: THE WATERING VEHICLE SHALL BE USED TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM DISTURBED SURFACES THAT MAY CAUSE OFF-SITE DAMAGE, HEALTH HAZARDS, AND TRAFFIC SAFETY PROBLEMS. WATER WILL BE USED TO SPRAY THE SURFACE ON CONSTRUCTION ROADS, ACCESS POINTS, AND OTHER DISTURBED AREAS WHERE OFF-SITE DAMAGE MAY OCCUR IF DUST IS NOT CONTROLLED.

EROSION AND SEDIMENT CONTROL PRACTICES

1. ALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES TO CONFORM TO THE LATEST EDITION OF THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. SELECT THE APPROPRIATE SESC MEASURES TO BEST CONTROL SOIL EROSION AND SEDIMENTATION, SHOULD SITE CONDITIONS WARRANT.

2. PROVIDE AND MAINTAIN SESC MEASURES IN ACCORDANCE WITH THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND SESC DRAWINGS TO EFFECTIVELY CONTAIN ALL SOIL MATERIAL WITHIN THE SITE CONSTRUCTION AREA WHEN RAINFALL IS IMMINENT.

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CONSTRUCTION SCHEDULE:

1. OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS.

2. HOLD PRE-CONSTRUCTION MEETING AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION.

3. FLAG CLEARING LIMITS, WETLANDS, CONSERVATION AREA AND/OR OTHER SENSITIVE AREAS FOR PROTECTION IN ACCORDANCE WITH EROSION CONTROL PLAN.

4. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE WHERE SHOWN ON EROSION AND SEDIMENT CONTROL PLAN.

5. INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES AS DESIGNED ON PLANS.

6. CLEAR AND STRIP AS PER DEMOLITION PLAN.

7. EXCAVATE SWALE AREA, CONSTRUCT INLET/OUTLET PROTECTION.

8. INSTALL SITE UTILITIES, SANITARY SEWERS, STORM SEWERS, AND WATERLINES.

9. GRADE, TOPSOIL AND SEED AS SOON AS PRACTICAL UPON COMPLETION OF UTILITIES INSTALLATION.

10. ONCE ALL DISTURBED AREAS ARE VEGETATED, ALL TEMPORARY SEDIMENT CONTROL MEASURES CAN BE REMOVED. SITE CONTRACTOR MUST HAVE THE ENTIRE SITE STABILIZED PRIOR TO WITHDRAWING FROM SITE.

CONSTRUCTION SPECIFICATIONS

GENERAL SPECIFICATIONS FOR THE INSTALLATION OF THE EROSION AND CONTROL PRACTICES ARE SUMMARIZED BELOW.

1. SILT FENCE: FILTER FABRIC SHOULD BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION SHOULD BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO ALLOW FOR POOLING OF WATER. A 6 INCH DEEP TRENCH SHOULD BE EXCAVATED, MINIMIZING THE DISTURBANCE ON THE DOWNSIDE SLOPE. THE BOTTOM OF THE TRENCH SHOULD BE AT LEVEL GRADE. MAXIMUM DEVIATION FROM LEVEL GRADE SHOULD BE 1% AND NOT EXTEND MORE THAN 25 FEET. THE BOTTOM OF THE FENCE SHOULD BE ANCHORED BY PLACING FABRIC IN THE BOTTOM OF THE TRENCH, AND BACKFILLING AND COMPACTING THE FILL MATERIAL IN THE TRENCH. SUPPORT STAKES SHOULD BE DRIVEN 18 INCHES BELOW THE EXISTING GROUND SURFACE AT 8 FEET (MAX) INTERVALS. FILTER FABRIC SHOULD BE STRETCHED AND FASTENED TO THE UPSLOPE SIDE OF THE SUPPORT STAKES. AT FABRIC ENDS, BOTH ENDS SHOULD BE WRAPPED AROUND THE SUPPORT STAKE AND STAPLED. IF THE FABRIC COMES ALREADY ATTACHED TO THE STAKES, THE END STAKES SHOULD BE HELD TOGETHER WHILE THE FABRIC IS WRAPPED AROUND THE STAKES AT LEAST ONE REVOLUTION PRIOR TO DRIVING THE STAKES.

2. STABILIZED CONSTRUCTION ENTRANCE: CLEAR THE ENTRANCE/EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. PLACE GEOTEXTILE FABRIC OVERLAYED WITH STONE TO THE DIMENSIONS, GRADES, AND ELEVATION SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS.

3. TEMPORARY SWALE:

ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.

DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.

DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.

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

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.

FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.

ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.

STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE	ACS AC, OR LESS	RCS AC -10AC
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 WITH 4-8" RIP-RAP OR RECYCLED CONCRETE EQUIVALENT ENGINEERED DESIGN
4	8.1-20.0%	LINED WITH 4-8" RIP-RAP	

MAINTENANCE PLAN

ALL EROSION AND SEDIMENT POLLUTION CONTROL DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY. THE CONTROL DEVICES WILL BE INSPECTED AND MAINTAINED AS PRESCRIBED BELOW.

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY REPAIRS NEEDED WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.

2. SEDIMENT ACCUMULATIONS AT THE SILT FENCE SHALL BE REMOVED WHEN THE DEPTH OF THE SEDIMENT AT THE FENCE REACHES 0.5- FEET. REPAIRS WILL BE MADE TO THE FENCE TO MAINTAIN ITS BARRIER.

3. THE STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT THE TRACKING OF SEDIMENT ONTO PUBLIC AND PRIVATE RIGHT-OF-WAYS OR STREETS. PERIODICALLY, THE ENTRANCE WILL BE TOP DRESSED WITH ADDITIONAL AGGREGATE TO MAINTAIN THE 6-INCH THICKNESS. ANY SEDIMENT WHICH IS SPILLED, DROPPED OR WASHED ONTO PUBLIC AND PRIVATE RIGHT-OF-WAYS SHALL BE REMOVED IMMEDIATELY.

4. SEDIMENT FILTER BAGS SHALL BE INSPECTED DAILY DURING USE. IF A PROBLEM IS DETECTED, PUMPING SHOULD CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED. FILTER BAGS WILL BE REPLACED WHEN THEY BECOME ¼ FULL. SPARE BAGS SHOULD BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR FILLED.

5. ALL SEEDED AREAS SHALL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

6. DUST CONTROL MEASURES SHALL BE MAINTAINED THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS ARE STABILIZED.

GPI

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Design
Planning
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REVISIONS									
DATE									
NO.	REVISION								
October 2025									
DRAWN/DESIGN BY DV					CHECKED BY PC				

EROSION &
SEDIMENT
CONTROL NOTES

REVIEW SET NOT ISSUED FOR
CONSTRUCTION

SCALE:

As Noted

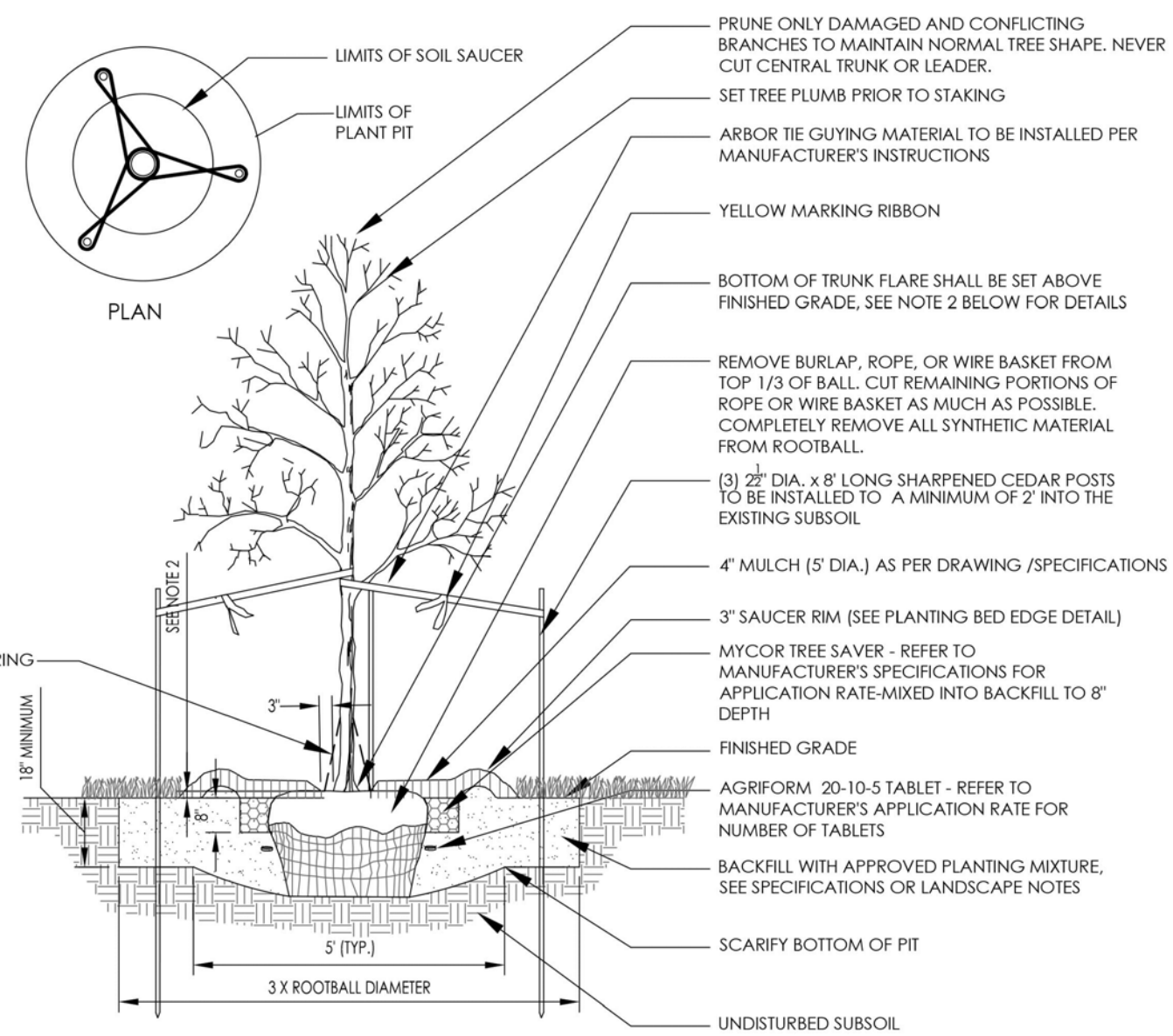
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N:\2025\WNY-2500056.00 359 QUAKER ROAD SITE PLAN (CAD) Design Plans\EROSION & SEDIMENT CONTROL NOTES.dwg Monday, 22 December 2025 3:12PM

1. IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE PRIOR TO BID MOBILIZATION, TO BECOME FAMILIAR WITH EXISTING CONDITIONS AT THE SITE.
2. STANDARDS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", ANSI Z60.1 (LATEST EDITION) REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE THE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIALS DELIVERED AND INSTALLED ON THIS PROJECT.
3. ALL PLANTS MUST BE HEALTHY, VIGOROUS AND FREE OF PESTS AND DISEASE.
4. ALL PLANTS MUST BE HARDY UNDER CLIMATE CONDITIONS THAT EXIST AT THE PROJECT SITE AND GROWN AT A NURSERY IN THE SAME HARDINESS ZONE AS THE PROJECT LOCATION.
5. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED ON THE PLANT LIST.
6. ANY PROPOSED DEVIATION TO THE LANDSCAPE PLAN MUST FIRST BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF THE PROPOSED LANDSCAPING CHANGES.
7. ALL TREES MUST BE STRAIGHT-TRUNKED, INJURY FREE, HAVE A FULL, SYMMETRICAL CROWN (HEAD) AND MEET ALL REQUIREMENTS SPECIFIED (E.G. SINGLE STEM, MULTI-STEM, HEAVY BRANCHED, ETC.).
8. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS.
9. ANY DISCREPANCIES IN THE QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR LANDSCAPE ARCHITECT (OWNER'S REPRESENTATIVE).
10. ANY CONCERNS RELATED TO SITE CONDITIONS AND/OR PLANT LOCATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR DESIGN LANDSCAPE ARCHITECT (OWNER'S REPRESENTATIVE) PRIOR TO INSTALLATION.
11. THE FINAL LOCATION OF TREES AND OTHER LANDSCAPING SHALL BE DETERMINED IN THE FIELD BASED ON UTILITY STAKEOUT AND SHALL NOT CONFLICT WITH TRAFFIC SIGNS AND/OR UTILITIES. STAKE OUT SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
12. PLANTING BACKFILL MIXTURE: 20 PARTS ON-SITE SOIL, 10 PARTS SCREENED TOPSOIL, 5 PARTS PEAT MOSS, 5 PARTS ALL GROW, 2.5 PARTS WELL ROTTED MANURE & 10 LBS. 5-10-5 PLANTING FERTILIZER, MIXED THOROUGHLY PER CUBIC YARD.
13. MULCH ALL PLANT BEDS ADJACENT TO DRIVE THRU AND BUILDING WITH RIVER ROCK MULCH (SIZE TO MATCH EXISTING) AND INDIVIDUAL TREES IN LAWN AREAS WITH SHREDED HARD WOOD MULCH (TO MATCH EXISTING) TO A DEPTH OF THREE (3") INCHES UNLESS OTHERWISE SPECIFIED ON PLANTING DETAILS, OR AS DIRECTED BY THE LANDSCAPE ARCHITECT DUE TO SITE CONDITIONS. MULCH SAMPLE TO BE SUBMITTED TO THE OWNER OR THE OWNER'S REPRESENTATIVE FOR FINAL APPROVAL.
14. ANY PLANT WHICH TURNS BROWN, DEFOLIATES OR DIES PRIOR TO FINAL ACCEPTANCE BY THE OWNER, OR LANDSCAPE ARCHITECT, SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH THE SAME PLANT (SPECIES, VARIETY AND SIZE) AS SPECIFIED ON THE PLANT SCHEDULE (LIST).
15. THE CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIALS UNTIL THE PROJECT HAS RECEIVED FINAL ACCEPTANCE BY THE OWNER OR OWNER'S REPRESENTATIVE. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO: WATERING, MULCHING, FERTILIZING, SPRAYING (FUNGICIDE, PESTICIDE, ANTI-DESICANT, AS WELL AS RAISING PLANTS THAT HAVE SETTLED TOO DEEP OR REQUIRE STRAIGHTENING.
16. LOCATIONS OF EXISTING BURIED UTILITIES SHOWN ON THE SITE PLAN ARE BASED UPON THE BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO CALL FOR A UTILITY STAKEOUT PRIOR TO COMMENCING PLANT INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, AND SITE APPURTENANCES WHICH OCCURS AS A RESULT OF LANDSCAPE INSTALLATION OPERATIONS.
17. EXISTING TREES INDICATED TO BE REMOVED SHALL OCCUR UNDER THE SITE CONTRACT FOR THIS PROJECT. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR NEW PLANTINGS OR RESTORATION OF THE DISTURBED AREA (LAWNS, PLANT BEDS).
18. EXISTING TREES TO REMAIN SHALL BE PROTECTED BY INSTALLING A TEMPORARY FENCE AT THE OUTER LIMITS OF THE TREE CANOPY. NO VEHICULAR TRAFFIC SHALL OCCUR WITHIN THE LIMITS OF THE DRIP-LINE.

Key	No.	Botanical Name	Common Name	Min. Size	Remarks
TREES					
PO	13	Picea omorika	Serbian Spruce	5' ht.	B&B
PN	4	Pinus nigra	Austrian Pine	5' ht.	B&B
QB	3	Quercus bicolor	Swamp White Oak	2.5" cal.	B&B
SHRUBS					
HM	8	Hydrangea macrophylla 'Glowing Embers'	Glowing Embers Hydrangea	24" ht.	#3 cont.
IC	14	Ilex crenata 'Green Luster'	Green Luster Holly	24" ht.	B&B
JC	6	Juniperus chinensis 'Keteleeri'	Keteleeri Juniper	48" ht.	B&B
JO	2	Juniperus chinensis 'Old Gold'	Old Gold Juniper	18" ht.	B&B
PD	6	Physocarpus opulifolius 'Diablo'	Diablo Ninebark	36" ht.	#5 cont.
PJ	2	Pieris japonica 'Mountain Fire'	Mountain Fire Japonica	36" ht.	B&B
PF	10	Potentilla fruticosa 'Gold Drop'	Gold Drop Potentilla	12" ht.	#1 cont.
RK	5	Rosa 'Knockout'	Knockout Rose	36" ht.	#5 cont.
SB	5	Spiraea x bumalda 'Anthony Waterer'	Anthony Waterer Spiraea	24" ht.	#3 cont.
TURFGRASS SEED MIX					
TURF/LAWN	KENTUCKY BLUEGRASS/PERENNIAL RYEGRASS		80:20 MIX	6 LBS PER 1,000 SF	
All disturbed non-paved areas outside of planting beds, tree pits and rain gardens are to be seeded with above turfgrass mix					



1. MAINTAIN A 3" MINIMUM RADIUS CLEAR OF MULCH AROUND THE TRUNK.
2. THE DISTANCE BETWEEN THE BOTTOM OF THE TRUNK FLARE AND THE FINISHED GRADE SHALL BE AS FOLLOWS:
 - 2.1. FOR SANDY OR LOAMY SOILS: 1"
 - 2.2. FOR CLAY OR POORLY DRAINED SOILS: 3"THE CONTRACTOR SHALL REVIEW THE APPROPRIATE PLANTING DEPTH WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. WHEN TAGGING TREES AT THE NURSERY, MARK THE NORTH SIDE OF THE TREE IN THE FIELD AND WHEN INSTALLING, ROTATE TREE TO FACE NORTH WHENEVER POSSIBLE.

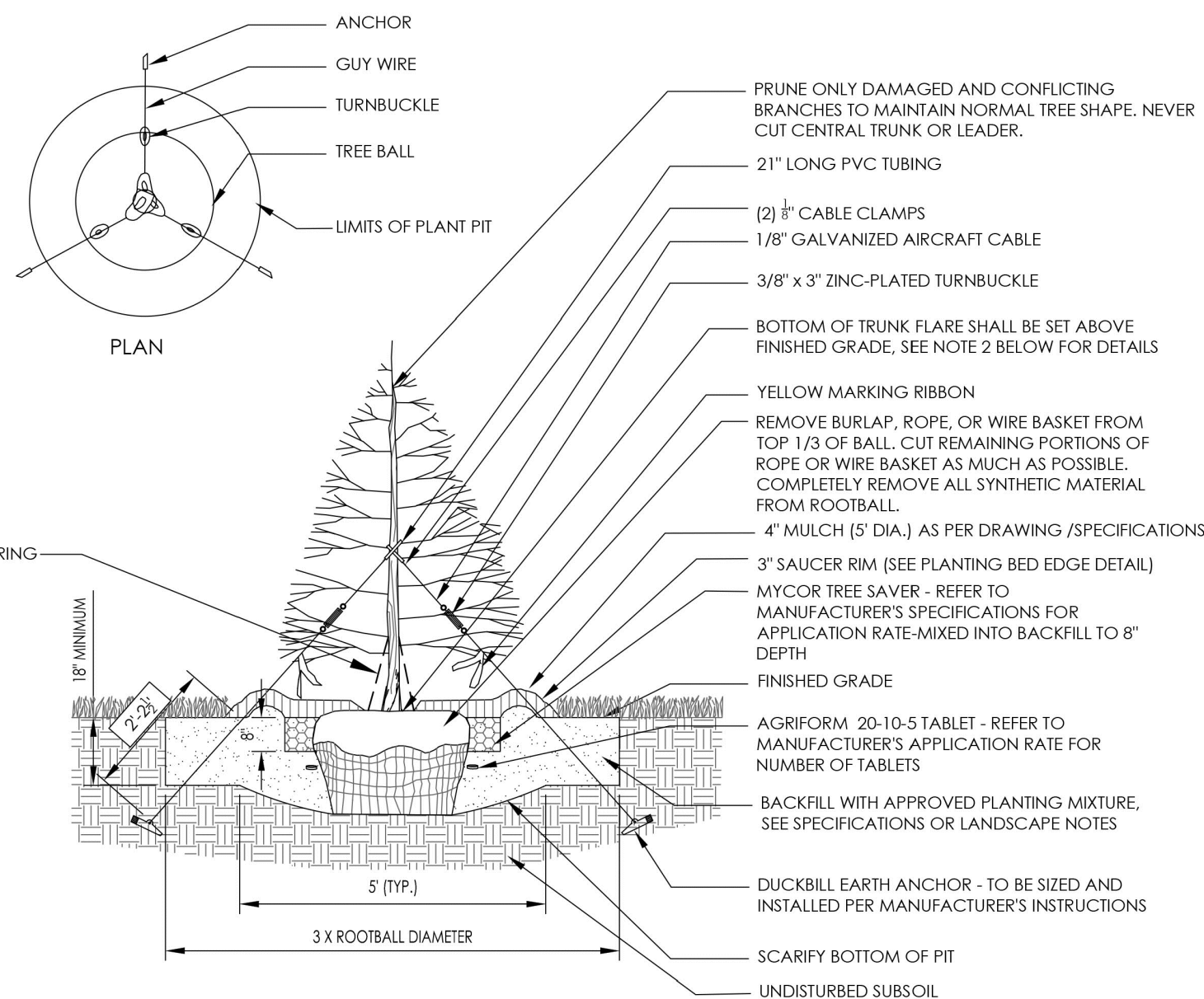
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Diagram illustrating the planting and pruning requirements for a shrub in a container:

- PRUNE ONLY DAMAGED AND CONFLICTING BRANCHES AND RETAIN LEADERS AND NATURAL FORM OF SHRUB**
- SHRUB SHALL HAVE SAME RELATION TO FINISHED GRADE AS EXISTED AT NURSERY**
- 4" MULCH WITHIN EARTH SAUCER**
- TOPSOIL MIXTURE**
- ROOT BALL**
- UNDISTURBED EARTH**
- PER A.N.L.A. STAND.** (Vertical dimension: 6")
- PER A.N.L.A. STAND.** (Horizontal dimension: 4")
- NOTE: SPRAY ALL PLANTS WITH ANTI-DESSICANT**

CONIFEROUS TREE PLANTING DETAIL

GPI (716) 633-4844 Engineering Design Planning Construction Management GRINET.COM Greenman - Pedersen, Inc. 4950 Genesee Street, Suite 100 Buffalo, NY, 14225 PCW Enterprises, LLC 4185 East Blood Road Cowlesville, NY 14037						
359 QUAKER ROAD MEDICAL OFFICES 359 Quaker Road Town of Aurora, NY 14052						
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