



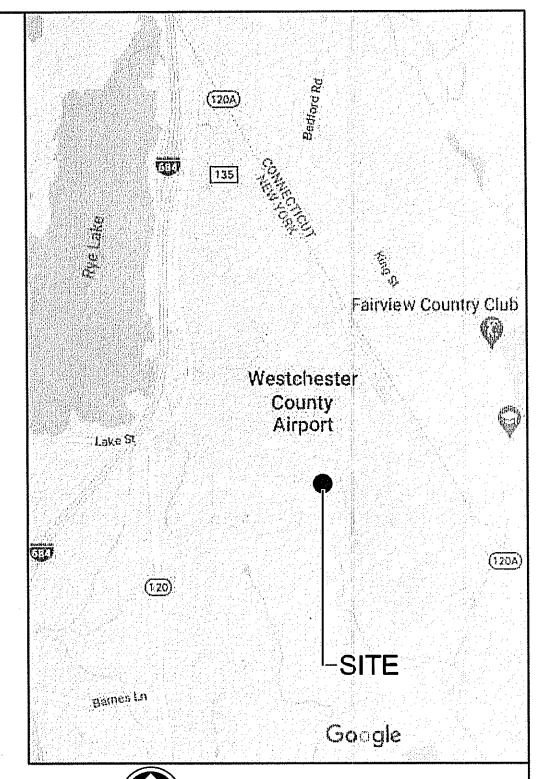
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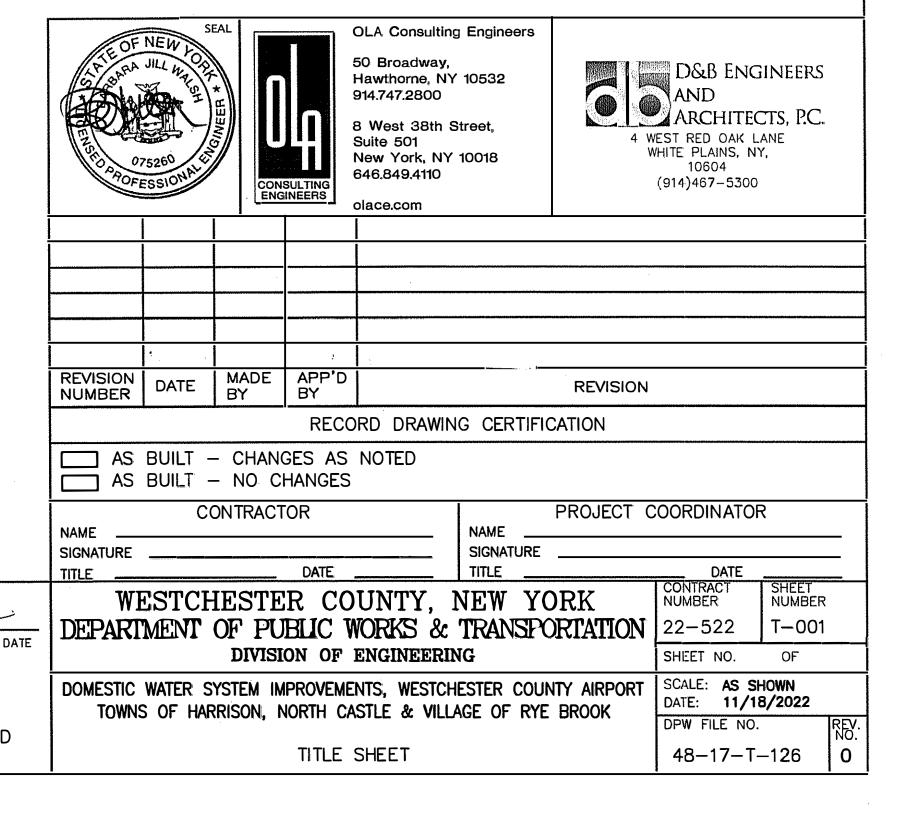
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING

CONTRACT No. 22-522

DOMESTIC WATER SYSTEM IMPROVEMENTS WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK







RECOMMENDED FOR CONSTRUCTION

JEFFERY A. DEAN, P.E. ASSOCIATE ENGINEER DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

6606.8.61 RECOMMENDED FOR CONSTRUCTION

HUGH J. GREECHAN, P.E. GAYLE M. KATZMAN, P.E. FIRST DEPUTY COMMISSIONER COMMISSIONER DEPARTMENT OF PUBLIC WORKS AND DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION TRANSPORTATION

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DRAWING LIST

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CONTRACT NO. 22-522

DOMESTIC WATER SYSTEM IMPROVEMENTS WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON AND NORTH CASTLE & VILLAGE OF RYE BROOK

SPECIAL INSPECTIONS

SPECIAL INSPECTION	REFERENCE
SUBGRADE INSPECTION	BC 1705.6
SUBSURFACE CONDITIONS - FILL REPLACEMENT AND IN-PLACE DENSITY	BC 1705.6
CONCRETE DESIGN MIX	BC 1705.3
CONCRETE SAMPLING & TESTING	BC 1705.3
CONCRETE CAST-IN-PLACE	BC 1705.3
REINFORCING STEEL	BC 1705.3
MASONRY	BC 1705.4
ROOF COVERING & ROOF FRAMING CONNECTIONS	BC 1705.11
NOTE:	
INUTE.	

THE OWNER SHALL RETAIN AN APPROVED INDEPENDENT SPECIAL INSPECTION AGENCY FOR ALL REQUIRED INSPECTIONS INCLUDING TESTS, CONTINUOUS INSPECTIONS, PERIODIC INSPECTIONS, AND FINAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE 2020 NYS BUILDING CODE.

	S	CON	SULTING	OLA Consulting 50 Broadway, Hawthorne, NY 914.747.2800 8 West 38th S Suite 501 New York, NY 646.849.4110 olace.com	′ 10532 Street,		D&B ENC AND ARCHITEC VEST RED OAK L WHITE PLAINS, N° 10604 (914)467–5300	CTS, P.C.	
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GENERAL NOTES:

- 1. ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO REVISIONS AS PER ACTUAL FIELD CONDITIONS.
- 2. CONTRACTOR SHALL COMPLY WITH ALL NYSDEC PERMIT REQUIREMENTS AND ANY OTHER STATE, CITY, COUNTY OR TOWN AGENCY HAVING JURISDICTION. REFER TO THE CONTRACT SPECIFICATIONS FOR PERMIT REQUIREMENTS.
- 3. CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO MAINTAIN SERVICE TO THE AIRPORT AND PROTECT THE EXISTING WATER MAINS AND WATER SERVICES. SHUTDOWNS OF THIS WATER MAIN ARE NOT PERMITTED WITHOUT PERMISSION FROM THE WESTCHESTER COUNTY AIRPORT AND THE ENGINEER. EXISTING CORPORATION STOPS AND VALVES SHALL BE THE TIE—IN POINTS FOR NEW SERVICE.
- 4. ANY UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND HAVE BEEN OBTAINED FROM AVAILABLE SOURCES. THE EXISTENCE AND LOCATION OF ANY UTILITIES INDICATED ON THE PLANS ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING WORK. EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES SHALL BE DUG BY HAND. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.
- 5. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE PRIVATE UTILITY MARKOUTS FOR ALL UTILITIES IN THE WORK AREAS. THE CONTRACTOR SHALL SUBMIT THE PROPOSED UTILITY SUB-CONTRACTOR FOR APPROVAL.
- 6. THE CONTRACTOR SHALL OBTAIN AND HAVE ON THE JOB SITE, AT ALL TIMES, ALL PERMITS AS REQUIRED BY THE STATE, COUNTY, TOWN/VILLAGE, OR ANY OTHER PERMITTING AGENCY. THE CONTRACTOR SHALL BEAR ALL COSTS OF OBTAINING THESE PERMITS.
- 7. CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS CONSTRUCTION MATERIALS TO THE SATISFACTION OF THE OWNER AND ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND LEGAL DISPOSAL OF ALL MATERIALS RESULTING FROM THIS CONTRACT.
- 8. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE OWNER AND ENGINEER TO MINIMIZE INTERRUPTIONS TO NORMAL AIRPORT OPERATIONS.
- 9. CONTRACTOR SHALL SUBMIT DETAILED WORK PLAN INCLUDING SEQUENCE OF OPERATIONS PRIOR TO COMMENCING WORK AND SHALL BE SUBJECT TO APPROVAL OF THE OWNER.
- 10. THE CONTRACTOR SHALL AT ALL TIMES, PROVIDE CONVENIENT ACCESS WITH SAFE AND PROPER FACILITIES FOR THE INSPECTION OF ALL PARTS OF THE WORK. NO WORK, EXCEPT SUCH SHOP WORK AS MAY BE SO PERMITTED, SHALL BE DONE EXCEPT WITH THE CONSENT OF THE OWNER OR A REPRESENTATIVE THEREOF.
- 11. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO THE START OF CONSTRUCTION. IN ADDITION, IF WORK SHOULD BE STOPPED AND RESTARTED FOR ANY REASON, THE CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF SEVENTY-TWO (72) HOURS NOTICE.
- 12. ITEMS SUSTAINING DAMAGE DURING CONSTRUCTION AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AND/OR REPLACED TO THE SATISFACTION AND APPROVAL OF THE OWNER AT THE CONTRACTORS EXPENSE. ANY DAMAGE TO PAVEMENT OR GRASS AREAS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- 13. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRESERVE THE MATERIAL BELOW AND BEYOND THE LINES OF ALL EXCAVATION IN THE SOUNDEST POSSIBLE CONDITION. ANY DAMAGE TO THE WORK DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE EXPENSE OF AND BY THE CONTRACTOR.
- 14. NO MATERIALS OF ANY KIND SHALL BE USED FOR THE WORK UNTIL IT HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER; ALL MATERIALS REJECTED SHALL BE IMMEDIATELY REMOVED FROM THE WORK SITE AND SHALL NOT BE OFFERED FOR INSPECTION AGAIN.
- 15. ANY MATERIALS OR WORKMANSHIP FOUND AT ANY TIME TO BE DEFECTIVE SHALL BE REMEDIED AT ONCE, REGARDLESS OF PREVIOUS INSPECTION. THE INSPECTION AND OBSERVATION OF WORK BY THE ENGINEER IS INTENDED TO AID THE CONTRACTOR IN APPLYING LABOR AND MATERIAL TO AND IN ACCORDANCE WITH THE SPECIFICATION, BUT SUCH INSPECTION SHALL NOT RELEASE THE CONTRACTOR FROM ANY CONTRACT OBLIGATIONS.
- 16. THE CONTRACTOR SHALL CONDUCT THE WORK IN A SAFE MANNER SO AS TO POSE NO DANGER OR HAZARDS TO PERSONS OR PROPERTY. WHERE NECESSARY, TEMPORARY SHIELDS OR OTHER PROTECTIVE DEVICES MUST BE UTILIZED. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE OF ANY AND ALL SAFETY MEASURES. THE USE OF EXPLOSIVES IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA AND NEW YORK STATE DEPARTMENT OF LABOR REQUIREMENTS.
- 17. RESEED ALL AREAS WHERE WORK OCCURS AND/OR WHERE CONTRACTOR DAMAGES EXISTING GRASS. COMPLY WITH THE SPECIFICATIONS. STAGING AREAS SHALL BE RESTORED TO ORIGINAL CONDITION AND SHALL BE SEEDED FOLLOWING COMPLETION OF ALL PHYSICAL WORK
- 18. THE CONTRACTOR SHALL HAVE A COMPETENT REPRESENTATIVE PRESENT WHO SHALL RESPOND TO ANY QUESTIONS OR REQUESTS OF THE ENGINEER IN THE PROSECUTION AND COMPLETION OF THE WORK IN CONFORMITY WITH THIS CONTRACT, AND SHALL HAVE FULL AUTHORITY TO SUPPLY LABOR AND MATERIAL IMMEDIATELY. THE CONTRACTOR SHALL ALSO HAVE A COMPETENT REPRESENTATIVE AVAILABLE TO RECEIVE TELEPHONE MESSAGES AND PROVIDE A REASONABLE REPLY AS SOON AS POSSIBLE, BUT NO LATER THAN 24 HOURS.

- 19. NEITHER THE OWNER OR ENGINEER SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS CHOSEN BY THE CONTRACTOR TO COMPLETE THE WORK.
- 20. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR SITE SAFETY AND THE SAFETY OF THE CONTRACTOR'S WORK FORCE.
- 21. BACKFILL AT ALL EXCAVATIONS SHALL BE PLACED IN 6" LIFTS AND SHALL ACHIEVE A COMPACTION NOT LESS THAN 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY. UNDER THE TERMS OF THE CONTRACT, THE CONTRACTOR SHALL PERFORM FIELD TESTS BY AN APPROVED LABORATORY TO ASSURE THIS COMPACTION RATE AT VARYING DEPTHS. THE CONTRACTOR SHALL HAVE THE APPROVED LABORATORY REPRESENTATIVE ON SITE WHEN DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BEAR ALL COSTS FOR TESTING AND ANY DELAYS THAT RESULT FROM SUCH TESTING.
- 22. THE CONTRACTOR SHALL ADJUST ALL MANHOLE FRAMES AND COVERS, VALVE COVERS, WATER VALVE BOXES, DRAINAGE INLETS, ETC. AS NECESSARY TO MEET THE SURFACE OF NEW PAVEMENT OR WALKWAY AS REQUIRED. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE RELATED UTILITY COMPANIES, IF APPLICABLE. WARPING OF THE PAVEMENT SURFACE TO MEET THESE ITEMS WILL NOT BE PERMITTED.
- 23. ALL EXISTING SIGNS IN THE CONTRACT AREA ARE TO REMAIN INTACT. SIGNS DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY SIGNS THAT REQUIRE RESETTING SHALL BE PLACED IN A FINAL POSITION DETERMINED BY THE OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR SIGNS DAMAGED BY HIS OPERATIONS.
- 24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO BURIED AND OVERHEAD UTILITIES LOCATED ON PUBLIC AND PRIVATE PROPERTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO FACILITIES ON PUBLIC AND PRIVATE PROPERTY, SUCH AS, LANDSCAPING, DRIVEWAYS, CURBS, PAVEMENT, SIDEWALK, ETC.
- 25. CONTRACTOR IS RESPONSIBLE TO COORDINATE AND VERIFY THE EXTENT OF ALL DEMOLITION WITH THE ENGINEER PRIOR TO PERFORMING THE WORK.
- 26. CONTRACTOR SHALL RESTORE STAGING AREAS BACK TO ITS ORIGINAL CONDITION INCLUDING GRADING, SEEDING, ETC. EXISTING TREES, UTILITIES, LIGHT POLES, STONE, SIDEWALK, CURB, ETC. SHALL BE PROTECTED AND REPLACED IF DAMAGED.
- 27. PROVIDE ELECTRICAL POWER, WATER, TELEPHONE, ETC. AS SPECIFIED FOR THE CONTRACTOR'S TRAILER WHICH SHALL BE LOCATED IN THE STAGING AREA.

SURVEY NOTES:

- 1. BASE MAP INFORMATION PREPARED BASED ON SURVEYS COMPLETED BY TERRY BEREGENDROFF COLLINS LAND SURVEYING, PLLC, ENTITLED "TOPOGRAPHIC SURVEY OF PROPERTY" PREPARED FOR D&B ARCHITECTS & ENGINEERS, P.C DATED JUNE 30, 2020 AND AUGUST 18, 2020 AND ADDITONAL INFORMATION PROVIDED BY WESTCHESTER COUNTY.
- 2. HORIZONTAL DATUM NAD 83.
- 3. VERTICAL DATUM NAVD 88.
- 4. ALL ELEVATIONS AND CONNECTION POINTS TO EXISTING PIPES SHALL BE VERIFIED PRIOR TO THE START OF CONSTRUCTION. ANY VARIATIONS FROM ELEVATIONS ON FIELD AND ELEVATIONS SHOWN ON THE PLANS SHALL BE REPORTED TO THE ENGINEER.
- 5. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE ACCURATE HORIZONTAL AND VERTICAL LOCATIONS OF THE WORK. THE CONTRACTOR SHALL CONFIRM THE ACCURACY OF ALL MONUMENTS AND BENCHMARKS ESTABLISHED FOR THE CONTRACTORS PURPOSE.
- 6. THE CONTRACTOR SHALL PROVIDE SUFFICIENT SURVEY CONTROL SUCH THAT WORK IS BEING COMPLETED AT THE PROPER LOCATION AND GRADE. THE WORK SHALL NOT VARY MORE THAN 1 INCH FROM THE LINES AND GRADES SHOWS ON THE PLANS.
- 7. UPON COMPLETION OF THE WATERMAIN CONSTRUCTION AND PRIOR TO TO USE, THE CONTRACTOR SHALL SUBMIT TWO (2) COPIES OF AS-BUILT DRAWINGS PREPARED BY A NEW YORK STATE LICENSED LAND SURVEYOR, RETAINED AND PAID FOR BY THE CONTRACTOR, DEPICTING THE LOCATION OF THE NEW AND EXISTING WATER MAINS, HYDRANTS VALVES, MANHOLES, VAULTS, APPURTENANCES, ETC. AS-BUILT DRAWINGS SHALL ALSO INCLUDE THE LOCATION, SIZE AND DEPTH OF ALL STORM AND SANITARY SEWERS THAT CROSS THE NEW AND EXISTING WATERMAIN.

CONSTRUCTION SEQUENCE NOTES:

- THE SEQUENCE OF CONSTRUCTION SHALL PROCEED IN THE FOLLOWING GENERAL OPDER:
- PHASE 1A: CONSTRUCTION OF NEW FACILITIES AT NORTH END OF PROJECT

 1.INSTALL NEW VALVE CLUSTER, NUMBERS 7, 8 & 9 AT STA. B0+00 AND
 CONNECT EXISTING WATER SERVICE TO VALVE NO. 7.
- 2.VALVE NO. 7 AND 8 SHALL REMAIN OPEN AND VALVE NO. 9 SHALL REMAIN CLOSED DURING CONSTRUCTION OF NEW WATERMAIN.
- 3.CONSTRUCT THE NEW 12" WATERMAIN EXTENSION (FROM STA. B0+00 THROUGH STA. B40+14).
- 51A. B40+14).
- 4.CONSTRUCT NEW 12" WATER SERVICE (FROM CO+00 TO C10+61).
- 5.CONSTRUCT AIRPORT ROAD BACKFLOW PREVENTER BUILDING
- 6.CONSTRUCT WATER METER/PRV VAULT

PHASE 1B: CONSTRUCTION AND ACTIVATION OF NEW TOWER ROAD BACKFLOW PREVENTER BUILDING

- 1. CONSTRUCT NEW TOWER ROAD BACKFLOW PREVENTER BUILDING.
- 2.SHUT DOWN THE SOUTH SERVICE CONNECTION (CLOSE VALVE NO. 3 AND VALVE NO. 6) AND CONSTRUCT 12" CONNECTIONS TO THE NEW TOWER ROAD BACKFLOW PREVENTER BUILDING.
- 3.PRESSURE TEST AND THEN DISINFECT. FILE ALL TEST RESULTS WITH WCDOH.
- 4.RETURN SOUTH SERVICE CONNECTION TO OPERATION (OPEN VALVE NO. 3 AND VALVE NO. 6) AND UTILIZE NEW TOWER ROAD BACKFLOW FACILITY.
- 5.OPEN BYPASS VALVES NO. 2 AND 2A AND SHUT VALVES NO. 1, 3 AND 4 ON BOTH SIDES OF THE EXISTING BACKFLOW PREVENTION BUILDING. FLOW SHOULD NOW BE GOING THROUGH THE NEW TOWER ROAD BACKFLOW PREVENTER BUILDING.
- 6.SOUTH SIDE OF SERVICE LOOP IS ACTIVE AND WEST SIDE OF SERVICE LOOP IS ISOLATED.

PHASE 2: DEMOLITION OF EXISTING BACKFLOW PREVENTER BUILDING (COMPLETE WITHIN 48-HOURS)

- 1.DEMOLISH THE EXISTING BACKFLOW PREVENTER FACILITY EQUIPMENT AND BUILDING.
- 2.CONSTRUCT THE LINE BETWEEN THE INLET AND OUTLET PIPING TO THE
- BUILDING AND INSTALL VALVE NO. 5 AND REPLACE VALVE 5A.

 3.PRESSURE TEST AND THEN DISINFECT NEW PIPING FROM STA. A0+92 TO STA. A1+81.
- 4.SHUT VALVES NO. 1A AND NO. 2 AND PRESSURE TEST AND DISINFECT EXISTING PIPING FROM STA. A0+00 TO STA. A0+92
- 5.OPEN VALVES NO. 1, 1A, 3 AND 5 AND SHUT BYPASS VALVE NO. 2A.

PHASE 3: CONSTRUCTION OF EXISTING WATER SERVICE IMPROVEMENTS 1. SHUT VALVES NO. 4, 7 AND 8

- 2.CONSTRUCT IMPROVEMENTS TO THE EXISTING WATER SERVICE.
- 3.PRESSURE TEST AND THEN DISINFECT EXISTING WATER SERVICE FROM STA. A1+81 TO STA. A63+34. (EACH SECTION BETWEEN VALVES WILL BE ISOLATED AND DISINFECTED/TESTED SEPARATELY)
- 4.REMOVE CONNECTION TO EXISTING WATER SERVICE AT VALVE NO. 8 AND PLUG VALVE NO. 8.

PHASE 4: REMOVE BY-PASS PIPING AT TOWER ROAD

1.DISCONNECT BY-PASS PIPING FROM VALVE NO. 2 AND 2A, PLUG VALVES AND PLUG ENDS OF BY-PASS PIPING TO BE ABANDONED.

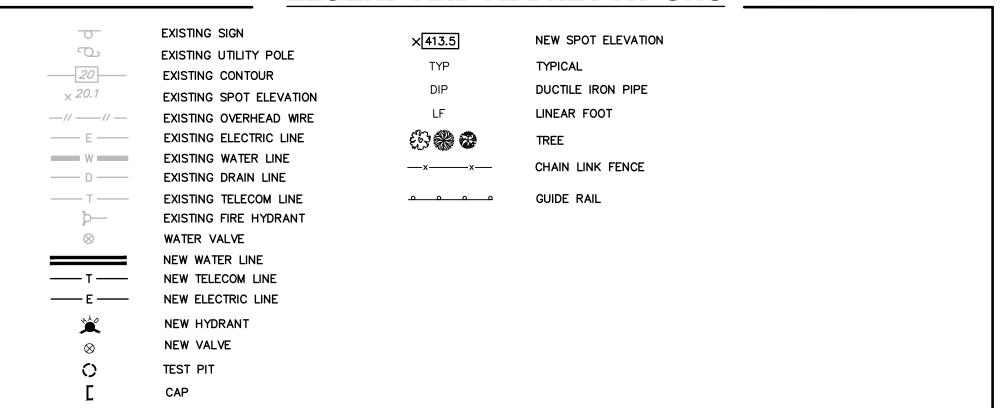
PHASE 5: TESTING OF WATER MAIN EXTENSION

1.PRESSURE TEST AND THEN DISINFECT ALL PIPING DOWNSTREAM OF CONNECTION (STA. B0+00). UTILIZE CONNECTION AT VALVE NO. 9 TO FILL NEW WATERMAIN. (EACH SECTION BETWEEN VALVES WILL BE ISOLATED AND DISINFECTED/TESTED SEPARATELY)

PHASE 6: OPERATION OF ALL DOMESTIC WATER LINE IMPROVEMENTS

1.UPON APPROVAL OF COMPLETED WORKS FROM WCDOH, PLACE EXISTING WATER MAIN, NEW WATER MAIN EXTENSION AND WATER SERVICE INTO OPERATION

LEGEND AND ABBREVIATIONS



DATE ___

FAA RESTRICTIONS:

WORK PERMITS HAVE BEEN FILED WITH THE FAA AND ARE UNDER REVIEW. THE FOLLOWING CONDITIONS ARE INCLUDED IN THE PERMIT FILINGS AND MUST BE FOLLOWED BY THE CONTRACTOR:

CONSTRUCTION OF THE WATER METER VAULT:

- TEMPORARY CRANE USE:
- 1. TEMPORARY CRANE USE WILL HAVE A HEIGHT LIMIT OF 80-FEET.
- 2. USE OF THE CRANE SHALL COMMENCE ONLY DURING DAYTIME HOURS AND VISUAL METEOROLOGICAL CONDITIONS (VMC), SUBJECT TO WC AIRPORT OPERATIONS AND CONTROL TOWER APPROVAL.

EXCAVATOR AND ALL OTHER EQUIPMENT USE:

- 1. ALL OTHER EQUIPMENT HEIGHT WILL BE LIMITED TO 35-FEET
 2. WORKING HOURS WILL BE LIMITED TO DAYTIME HOURS ONLY UNDER BOTH
- VISUAL METEOROLOGICAL CONDITIONS (VMC) AND INSTRUMENT
 METEOROLOGICAL CONDITIONS (IMC), SUBJECT TO WC AIRPORT OPERATIONS
 AND CONTROL TOWER APPROVAL.

WATERMAIN INSTALLATION AND BACKFLOW PREVENTER BUILDING:

- EXCAVATOR AND ALL OTHER EQUIPMENT USE:
- 1.ALL OTHER EQUIPMENT HEIGHT WILL BE LIMITED TO 35-FEET
- 2. WORKING HOURS WILL BE LIMITED TO DAYTIME HOURS ONLY UNDER BOTH VISUAL METEOROLOGICAL CONDITIONS (VMC) AND INSTRUMENT METEOROLOGICAL CONDITIONS (IMC), SUBJECT TO WC AIRPORT OPERATIONS AND CONTROL TOWER APPROVAL.

HAZARDOUS MATERIAL NOTES:

1. PRIOR TO DEMOLITION AND/OR RENOVATION, THE CONTRACTOR SHALL PROPERLY REMOVE AND OFF—SITE DISPOSE ALL AFFECTED HAZARDOUS MATERIALS (E.G., BALLASTS AND FLUORESCENT LAMPS) IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR SHALL MANAGE ALL HAZARDOUS MATERIALS AFFECTED BY THE DEMOLITION ACTIVITIES IN ACCORDANCE WITH SPECIFICATION SECTION 02126 (HAZARDOUS MATERIALS REMOVAL). ALL WORK SHALL BE ACCOMPLISHED IN STRICT ADHERENCE TO THE CONTRACT DOCUMENTS AND SPECIFICATIONS, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. WHENEVER THERE IS A CONFLICT OR OVERLAP OF THE ABOVE REFERENCES, THE MORE STRINGENT PROVISION SHALL APPLY. BEFORE STARTING ANY WORK, THE CONTRACTOR SHALL EXAMINE THE TECHNICAL SPECIFICATIONS FOR COMPLIANCE WITH CODES AND REGULATIONS APPLICABLE TO THE WORK AND SHALL IMMEDIATELY REPORT ANY DISCREPANCY TO THE ENGINEER.

2. AN ASBESTOS SURVEY HAS BEEN PERFORMED FOR THE FACILITY. THE GASKETS PRESENT IN THE PIPING THROUGHOUT THE SITE HAVE BEEN ASSUMED TO BE ASBESTOS—CONTAINING MATERIAL. IF THE PIPE FLANGES ARE OPENED (E.G., UNBOLTED), THE CONTRACTOR SHALL HAVE A LICENSED ASBESTOS ABATEMENT CONTRACTOR ABATE THE GASKETS AS ASBESTOS—CONTAINING MATERIAL IN ACCORDANCE WITH THE NYSDOL'S INDUSTRIAL CODE RULE 56. IF THE CONTRACTOR CUTS THE PIPING AROUND THE FLANGE WITHOUT OPENING THE FLANGE, THE CONTRACTOR SHALL DISPOSE OF THE FLANGE AT A FACILITY AUTHORIZED TO ACCEPT NONFRIABLE ASBESTOS WITHOUT ABATING. ALL COST ASSOCIATED WITH THE ABOVE SHALL BE INCLUDED IN THE CONTRACTOR'S BID. NO ADDITIONAL PAYMENT FOR THE MANAGEMENT OF GASKETS SHALL BE MADE.

3. IN THE EVENT THAT CONCEALED SUSPECT ASBESTOS—CONTAINING MATERIAL IS ENCOUNTERED DURING THE DEMOLITION ACTIVITIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER.

4, ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THE INFORMATION PROVIDED HEREIN IS BASED ON AVAILABLE RECORDS AND LIMITED FIELD INSPECTIONS AND SHALL SERVE TO AID THE CONTRACTOR IN THE EVALUATION OF EXISTING STRUCTURE CONDITIONS, BUT SHALL NOT BE HELD TO BE ACCURATE OR ALL—INCLUSIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE STRUCTURE AND ASSOCIATED SITE CONDITIONS TO BECOME FAMILIAR WITH AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF BIDS, AND SHALL MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS THEREAFTER.

5. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL APPLY FOR AND OBTAIN ALL APPLICABLE PERMITS FROM FEDERAL, STATE AND LOCAL REGULATORY AGENCIES NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH ALL CONDITIONS AND NOTIFICATION REQUIREMENTS OF ISSUED PERMITS

6. THE CONTRACTOR IS ADVISED THAT THE WORK OF THE CONTRACT MAY IMPOSE CERTAIN OBLIGATIONS AND REQUIREMENTS MANDATED BY THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION REGULATIONS FOUND AT TITLE 29 CFR 1926.62 (LEAD EXPOSURE IN CONSTRUCTION), RELATIVE TO THE POTENTIAL EXPOSURE TO LEAD BY ITS EMPLOYEES. THE CONTRACTOR ASSUMES ENTIRE RESPONSIBILITY AND LIABILITY FOR COMPLYING FULLY IN ALL RESPECTS WITH THESE REGULATIONS. ADDITIONALLY, IF THE SCOPE OF WORK REQUIRES THE CONTRACTOR TO SCRAPE LOOSE PAINT, THEN THE WASTE GENERATED SHALL BE ANALYZED FOR APPROPRIATE WASTE DISPOSAL.

7. LEAD IN PAINT ANALYTICAL RESULTS ARE SUMMARIZED IN THE HAZARDOUS MATERIALS ASSESSMENT REPORT. SEE SECTION 02126 (HAZARDOUS MATERIALS REMOVAL) REGARDING MANAGEMENT.

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RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED

AS BUILT - NO CHANGES

CONTRACTOR PROJECT COORDINATOR

NAME ______ NAME ______ SIGNATURE ______ SIGNATURE ______

DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK

SCALE: AS DATE: 12,

LEGEND. ABBREVIATIONS AND NOTES

NUMBER 22-522 G-01

SHEET NO. 3 OF 61

SCALE: AS SHOWN
DATE: 12/09/2022

DPW FILE NO. REV. NO. 48-17-C-128 0

SITE DEMOLITION NOTES:

- 1. ANY UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND HAVE BEEN OBTAINED FROM AVAILABLE SOURCES. THE EXISTENCE AND LOCATION OF ANY UTILITIES INDICATED ON THE PLANS ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY NO LATER THAN 48 HOURS PRIOR TO ANY EXCAVATION THAT MAY AFFECT THAT UTILITY. EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES SHALL BE DUG BY HAND. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES THAT
- 2. BEFORE THE START OF DEMOLITION, THE CONTRACTOR SHALL COORDINATE THE PROPOSED EXCAVATION WORK WITH THE OWNERS OF THE UTILITIES INVOLVED.
- 3. FOR WESTCHESTER COUNTY OWNED UTILITIES, CONTRACTOR SHALL VERIFY DISCONNECT PRIOR TO DEMOLITION.
- 4. WHERE EXISTING CURB, GUTTER, SIDEWALK OR WALK IS TO BE REMOVED, IT SHALL BE SAW CUT OR REMOVED AT THE NEAREST JOINT.
- 5. ALL EXISTING SIGNS IN THE CONTRACT AREA ARE TO REMAIN INTACT. SIGNS DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY SIGNS THAT REQUIRE RESETTING SHALL BE PLACED IN A FINAL POSITION DETERMINED BY THE OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR SIGNS DAMAGED BY HIS OPERATIONS.
- 6. THE CONTRACTOR SHALL PERFORM DAILY CLEANUP OPERATIONS WHICH INCLUDE SWEEPING OF THE ROADWAYS. REMOVAL OF DEBRIS (CUPS, PAPER BAGS, CANS, ETC.), REMOVAL OF EXCESS CONSTRUCTION MATERIALS, ALL TO THE SATISFACTION OF THE OWNER.
- 7. THE WORK COVERED BY THIS SECTION CONSISTS OF REMOVING AND DISPOSING OF ALL TREES, STUMPS, BUSHES, ROOTS, SHRUBS, VEGETATION, LOGS, RUBBISH, AND OTHER OBJECTIONABLE MATERIAL FROM THE SITE TO PERFORM THE WORK. REMOVE TREES AND SHRUBS IN SUCH A MANNER TO AVOID DAMAGE TO ADJACENT TREES AND SHRUBS AND THOSE DESIGNATED TO REMAIN. REMOVAL OF TREES AND SHRUBS SHALL INCLUDE THEIR RESPECTIVE STUMPS AND ROOTS. WORK UNDER THIS SECTION ALSO INCLUDES STRIPPING AND STOCKPILING OF TOPSOIL WHICH MAY BE REUSED.
- 8. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL RULES, REGULATIONS AND LAWS WHICH SHALL GOVERN THE HAULING AND DISPOSAL OF TREES, SHRUBS, STUMPS, ROOTS, RUBBISH, DEBRIS AND OTHER
- 9. STREETS, ROADS, ADJACENT PROPERTY AND OTHER WORKS AND STRUCTURES SHALL BE PROTECTED THROUGHOUT THE ENTIRE PROJECT. CONTRACTOR SHALL RESTORE ANY FACILITIES DAMAGED BY CONSTRUCTION TO THEIR ORIGINAL CONDITIONS, SATISFACTORY TO THE ENGINEER.
- 10. NO TREES, SHRUBS, ROOTS, BRANCHES, WOOD, CONCRETE, OR OTHER DEBRIS SHALL BE BURIED IN FILLS, EMBANKMENTS OR STOCK PILES.
- 11. NO CLEARED MATTER, DEBRIS SHALL BE STORED AT CONSTRUCTION SITE.
- 12. CONTRACTOR SHALL GUARANTEE THAT WORK PERFORMED UNDER THIS CONTRACT WILL NOT PERMANENTLY DAMAGE TREES, SHRUBS, TURF OR PLANTS DESIGNATED TO REMAIN, OR OTHER ADJACENT WORK OR FACILITIES. IF DAMAGE RESULTING FROM CONTRACTOR'S OPERATIONS APPEARS DURING THE PERIOD UP TO 24 MONTHS AFTER COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REPLACE DAMAGED ITEMS AT HIS EXPENSE.
- 13. DAMAGE TO ANY EXISTING ITEMS, NOT SHOWN IN CONTRACT DOCUMENTS TO BE REMOVED, SUCH AS PAVEMENT, GRASSED AREAS, UTILITIES, STRUCTURES OR OTHER FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR IMMEDIATELY AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL ASPHALT PAVEMENTS, GRASSED AREAS AND LANDSCAPING THAT ARE DAMAGED OR DISTURBED SHALL BE RESTORED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE CONTRACT SPECIFICATIONS.
- 14. EXCEPT AS NOTED BELOW, CONTRACTOR SHALL REMOVE FROM THE SITE AND SATISFACTORILY DISPOSE OF ALL TREES. SHRUBS. STUMPS. ROOTS. BRUSH. MASONRY. RUBBISH. SCRAP. DEBRIS. PAVEMENT. CURBS. FENCES AND MISCELLANEOUS OTHER STRUCTURES NOT COVERED UNDER OTHER SECTIONS AS SHOWN, SPECIFIED OR OTHERWISE REQUIRED TO PERMIT CONSTRUCTION OF THE NEW WORK.

15. BURNING OF MATERIALS IS EXPRESSLY FORBIDDEN.

- 16. TREES AND SHRUBS TO BE SAVED:
- A. TREES AND SHRUBS WHICH ARE TO REMAIN SHALL BE PROTECTED BY FENCES, BARRICADES, WRAPPING OR OTHER MEANS OF PROTECTION. EQUIPMENT STORAGE, MATERIAL STOCKPILES, ETC., SHALL NOT BE PERMITTED WITHIN TREE BRANCH SPREAD.
- B. PROTECT ALL OTHER TREES AND SHRUBS FROM DEFACEMENT, INJURY AND DESTRUCTION. PRESERVE TREES WITHIN THE CONTRACT LIMITS THAT ARE SO DELINEATED ON THE PLANS OR AS MARKED IN THE FIELD BY THE ENGINEER. ALSO, ALL TREES TO BE SAVED SHALL BE PROTECTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- C. DO NOT CUT ROOTS UNNECESSARILY; HANDWORK OR OTHER METHODS SHALL BE IMPLEMENTED TO PREVENT DAMAGE TO ROOTS WHICH EXTEND INTO GRADING LIMITS OF EXCAVATION. DISTURB ROOTS AS LITTLE AS POSSIBLE WHEN TUNNELING UNDER TREES. BACKFILLING AROUND TREE ROOTS SHALL BE DONE IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION IN THE VICINITY OF TREES.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL VEGETATION FROM DAMAGE RESULTING FROM EMISSIONS FROM MOTORIZED EQUIPMENT.
- E. CONTRACTOR SHALL BE VIGILANT OF ANY OVERHEAD UTILITY LINES WHEN USING AERIAL EQUIPMENT FOR TREE TRIMMING OPERATIONS
- F. DURING WORKING OPERATION, PROTECT THE TRUNK, FOLIAGE, AND ROOT SYSTEM OF ALL TREES TO BE SAVED WITH BOARDS OR OTHER GUARDS AND AS REQUIRED TO PREVENT DAMAGE, INJURY AND DEFACEMENT. DO NOT PILE EXCAVATED MATERIAL ADJACENT TO THE BASE OF ANY TREES. DO NOT ALLOW RUNOFF TO ACCUMULATE AROUND BASE OF TREES. DO NOT FASTEN OR ATTACH ROPES, CABLE, OR GUY WIRES TO TREES WITHOUT PERMISSION OF THE ENGINEER. WHEN SUCH PERMISSION IS GRANTED, PROTECT THE TREE BEFORE MAKING FASTENING OR ATTACHMENTS BY PROVIDING BURLAP WRAPPING AND SOFTWOOD CLEATS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGE RESULTING FROM THESE ACTIONS. USE OF AXES OR CLIMBING SPURS FOR TRIMMING WILL NOT BE PERMITTED. PROVIDE CLIMBING ROPES DURING TRIMMING.
- G. REMOVE SHRUBS TO BE SAVED. TAKING A SUFFICIENT EARTH BALL AT THE ROOTS TO MAINTAIN THE SHRUB. TEMPORARILY REPLANT IF REQUIRED, AND REPLACE AT THE COMPLETION OF CONSTRUCTION IN CONDITION EQUALING THE ORIGINAL.
- H. TREE AND SHRUB REPAIR WHERE REQUIRED SHALL BE PERFORMED BY A TREE SURGEON.
- I. TREES AND SHRUBS INTENDED TO REMAIN WHICH ARE DAMAGED BEYOND REPAIR BY CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

CONSULTANT SEAL

UTILITY NOTES:

1. APPROXIMATE LOCATION OF KNOWN UTILITY STRUCTURES AND FACILITIES THAT MAY BE ENCOUNTERED WITHIN AND ADJACENT TO THE LIMITS OF WORK ARE SHOWN ON THE PLANS. THE ACCURACY AND COMPLETENESS OF THIS INFORMATION IS NOT GUARANTEED BY THE ENGINEER. THE CONTRACTOR IS ADVISED TO VERIFY IN FIELD ALL THE FACTS CONCERNING THE UTILITY LOCATIONS AND OTHER CONSTRUCTION OBSTACLES PRIOR TO CONSTRUCTION OF ANY DISCREPANCIES WHICH MAY NOT AFFECT PROJECT DESIGN AND/OR SCOPE.

2. ALL ABANDONED WATER LINES SHALL BE CUT AND PLUGGED IN ACCORDANCE WITH THE DETAIL PROVIDED.

3. TRENCH DETAILS ARE INTENDED TO PROVIDE INFORMATION REGARDING BACKFILLING MATERIALS AND GENERAL MATERIAL DEPTHS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND SHALL PROVIDE APPROPRIATE SAFETY MEASURES. SHEETING AND BRACING AS NECESSARY. SHEETING CONDITIONS ARE TO BE DESIGNED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER AND SUBMITTED TO THE ENGINEER FOR APPROVAL. THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR FIELD CONDITIONS, TRENCHING OR BACKFILLING OPERATIONS DURING CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OSHA STANDARDS AND DETAILS FOR TRENCH EXCAVATION.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND PRECLUDING PONDING OF WATER IN ALL AREAS. DEWATERING OPERATIONS SHALL BE IN ACCORDANCE WITH NYSDEC REGULATIONS AND THE PROJECT STORMWATER POLLUTION PREVENTION PLAN.

5. THE CONTRACTOR SHALL COMPLY WITH THE LATEST OSHA CONFINED SPACE ENTRY REQUIREMENTS (29 CFR PART 1910).

6. THE CONTRACTOR SHALL COMPLY WITH THE LATEST REVISED OSHA SHEETING REQUIREMENTS (29 CFR PART 1926.650,651,652).

7. ALL EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE AND THAT INTERFERE WITH THE WORK SHALL BE RELOCATED UNLESS OTHERWISE SHOWN. COORDINATE WITH ENGINEER.

8. ALL ABANDONED PIPES SHALL BE PLUGGED, REMOVED, CRUSHED, OR FILLED WITH A SUITABLE MATERIAL AS DIRECTED BY THE ENGINEERS, ABANDONED PIPES 12" INSIDE DIAMETER AND LARGER MUST BE REMOVED. FILLED. OR CRUSHED IN PLACE. SMALLER PIPES SHALL BE PLUGGED AND ABANDONED IN PLACE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

9. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES OR STRUCTURES DUE TO THEIR CONSTRUCTION OPERATIONS, ALL DAMAGE SHALL BE IMMEDIATELY REPAIRED IN ACCORDANCE WITH DIRECTIONS FROM THE OWNING AUTHORITY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

10. IF OTHER UTILITY WORK IS PROPOSED, THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES TO DETERMINE THEIR SCHEDULE FOR PERFORMING UTILITY RELOCATION AND INSTALLATION WORK. THE CONTRACTOR SHALL SHALL SCHEDULE THEIR WORK ACCORDINGLY IN ORDER TO NOT INTERFERE WITH THE WORK OF THE UTILITY COMPANIES.

11. TRENCHES SHALL BE BACKFILLED WITHOUT DELAY. OPEN TRENCHES SHALL BE TEMPORARILY SUPPORTED AND STEEL PLATED WHEN WORK IS NOT IN PROGRESS. CONTRACTOR MUST ENSURE NO TRENCHES ARE LEFT OPEN OVERNIGHT. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF STEEL PLATES THAT ARE CAPABLE OF SAFELY SUPPORTING THE SUBJECTED LOADS.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY LIGHTING WITHIN THE LIMITS OF CONSTRUCTION AND FOR ALL AREAS WHERE EXISTING STREET AND AREA LIGHTING SHUT-DOWN IS REQUIRED TO INSTALL NEW LIGHTING AND ELECTRICAL SERVICE.

13. THE CONTRACTOR SHALL RETAIN A PRIVATE UTILITY LOCATING SERVICE TO LOCATE AND MARK-OUT ALL UTILITIES WITHIN 15-FEET OF THE EXISTING AND PROPOSED WATERMAINS. THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY THAT INCLUDES THE LOCATION OF THE EXISTING

14. THE CONTRACTOR SHALL PERFORM UTILITY EXPLORATIONS IN ADVANCE OF EACH WORK DAY TO AVOID DELAYS IN WORK PRODUCTION DUE TO UNFORESEEN CONDITIONS.

15. TEMPORARY SEEDING/MULCHING SHALL BE INSTALLED IN DISTURBED AREAS IF CONSTRUCTION

16. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS IF THE STORMWATER POLLUTION PREVENTION PLAN (SWPP) INCLUDED AS APPENDIX 5 OF THE CONTRACT SPECIFICATIONS.

SEEDING NOTES:

1. APPROVED SEEDING WINDOWS:

SEE SPECIFICATIONS.

- APRIL 1st - MAY 31st

OPERATION CEASE FOR MORE THAN SEVEN DAYS.

- AUGUST 16th OCTOBER 15th (Preferred Window) 2. AREAS TO BE SEEDED SHALL HAVE A MINIMUM OF 4 INCHES OF PLANTING SOIL MIX.
- 3. ALL SEED BEDS SHALL BE SOIL TESTED FOR pH AND NUTRIENTS, VERIFY RESULTS WITH LANDSCAPE ARCHITECT.
- 4. FERTILIZE, AS PER LABORATORY RECOMMENDATIONS, WITH A 10 6 4 SLOW RELEASE NITROGEN FERTILIZER CONSISTING OF 50% MIN. ORGANIC NITROGEN AND 50% MIN. WATER INSOLUBLE NITROGEN.
- 5. ADJUST pH, AS RECOMMENDED BY LABORATORY, WITH EITHER PELLETIZED DOLOMITIC LIMESTONE OR FERROUS SULFATE AT LABORATORY RECOMMENDED RATES.
- 6. SEED BED SHALL BE LOOSENED TO A DEPTH OF 8 INCHES.
- 7. ALL SEED BEDS SHALL BE WEED-FREE AND RAKED FREE OF DEBRIS (OVER 1 INCH DIAMETER) AND DISPOSED OF OFF SITE.
- 8. CONTRACTOR TO VERIFY ALL FINAL GRADING HAS BEEN COMPLETED PRIOR TO
- 9. ALL SEED BEDS SHALL BE SEEDED WITHIN 24 HOURS OF PREPARATION.
- 10. ALL SEEDING SHALL BE APPLIED WITH AN ENGINEERED WOOD FIBER HYDROMULCH (SEE SPECIFICATIONS). CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION. CONTRACTOR SHALL REVIEW METHOD OF INSTALLATION WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- 11. SEED BED SHALL BE IRRIGATED AND MAINTAINED MOIST UNTIL GERMINATION AND ESTABLISHMENT.
- 12. ONCE SEED BEDS HAVE BEEN SEEDED, ALL ACCESS (PEDESTRIAN AND VEHICULAR) SHALL BE RESTRICTED. CONTRACTOR SHALL TEMPORARILY CORDON OFF ACCESS WITH FENCING, FLAGGING, RIBBON, ETC.
- 13. CONTRACTOR RESPONSIBLE FOR MIN. 95% SEED ESTABLISHMENT AND MAINTENANCE, RE-SEED ANY BARE SPOTS AS REQUIRED TO MAINTAIN SOIL COVERAGE.
- 14. FOR TEMPORARY STABILIZATION, THE CONTRACTOR SHALL USE THE ANNUAL REYGRASS (LOLIUM PRENNE SSP. MULTIFLORUM) BE USED AT A RATE OF 30 LBS./ACRE AS IT DOES NOT INTERFERE WITH LATER ESTABLISHMENT OF NATIVE GRASS OR MEADOW MIXES.

SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLAN.

2. ANY DISTURBED AREAS THAT WILL NOT RECEIVE PERMANENT RESTORATION WITHIN TEN (10) DAYS AFTER FINAL GRADING, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY COVER. THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE

3. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.

4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW YORK.

5. A SUB-BASE COURSE DETAIL WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF THE PRELIMINARY GRADING.

6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E.; STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY COVER OF STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO NYS STANDARDS.

7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E.; SLOPES GREATER THAN 3:1).

8. IN ACCORDANCE WITH THE STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, ANY SOIL HAVING A pH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A pH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION.

9. THE WESTCHESTER COUNTY, AND THE ENGINEER, SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.

10. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED. ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE COVER, IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.

11. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO MAINTAIN DUST CONTROL. DIRT HAUL ROADS SHALL BE SPRINKLED WITH WATER OR GIVEN A SURFACE OF CRUSHED STONES OR WOODCHIPS AS REQUIRED. VEHICLES SHALL BE CLEANED, AS NECESSARY, PRIOR TO USING PUBLIC STREETS. PAVED ROADS SHALL BE SPRINKLED WITH WATER.

12. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE LOCATED IN THE FIELD AS REQUIRED OR AT THE DIRECTION OF THE ENGINEER. THE CONTRACT DRAWINGS ARE NOT INTENDED TO SHOW THE LOCATION AND DETAILS FOR ALL SUCH DEVICES BUT ARE TO BE USED AS A REASONABLE GUIDE.

13. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO WESTCHESTER COUNTY AND THE ENGINEER. THE REVISED PLANS MUST BE PREPARED BY THE CONTRACTOR AND MUST MEET ALL CURRENT NYS SOIL EROSION AND SEDIMENT CONTROL PRACTICES.

14. CONTRACTOR SHALL OBTAIN ALL REQUIRED SEDIMENT CONTROL PERMITS.

15. UPON COMPLETION OF CONSTRUCTION WORK AND AFTER FINAL GRADING AND WHEN PERMANENT STABILIZATION HAS BEEN ESTABLISHED, HAY BALES, SILT FENCES AND ALL OTHER SOIL PLAN APPURTENANCES WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, UNLESS ORDERED TO REMAIN BY THE ENGINEER.

16. ALL EXCESS EXCAVATED MATERIAL, EXCEPT FOR TOP SOIL, WILL BE REMOVED FROM THE SITE BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

CONSTRUCTION.

CONDUIT OUTLETS AND CATCH BASIN INLETS MUST BE PROTECTED PRIOR TO START OF

18. THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION OPERATIONS FOR REVIEW AND SUBMITTAL TO THE OWNER AND THE ENGINEER.

19. THE CONTRACTOR SHALL MEET ENGINEER ON-SITE TO DEFINE THOSE AREAS WHICH WILL REQUIRE SOIL EROSION AND SEDIMENT CONTROL FACILITIES. DISCUSS THEIR CONSTRUCTION AND THEREAFTER PROVIDE DETAILED PLANS FOR REVIEW OF SUCH FACILITIES BY THE OWNER AND THE ENGINEER.

20. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE WHERE POSSIBLE PRIOR TO, OR IMMEDIATELY FOLLOWING SITE AND ACCESS CLEARING.

21. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE AND MAINTAINED: INCLUDING SILT AND SEDIMENT REMOVAL. UNTIL CONSTRUCTION IS COMPLETED. AREA STABILIZED AND THE ENGINEER SO DIRECTS.

22. THE CONTRACTOR SHALL CONFINE SOIL DISTURBANCE ACTIVITY TO THE AREAS CONTAINED WITHIN THE "LIMIT OF DISTURBANCE" LINES EXCEPT AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE AND COORDINATION WITH ADJACENT CONTRACTS. SUCH ACTIVITY SHALL ESSENTIALLY CONSIST OF CLEARING, GRUBBING, GRADING AND CONSTRUCTION IN AREAS DEFINED AS BUILDINGS, TANKS, PIPELINE, PARKING AREAS, DRIVES AND WALKWAYS OR AS MAY BE REQUIRED DUE TO GRADE CHANGES OR RETAINING WALLS.

23. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. SEDIMENT FILTER SHALL BE INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE DETAILS OF DESIGN AND CONSTRUCTION SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR TO THE ENGINEER, AND ALL OTHER PERTINENT AGENCIES FOR REVIEW.

24. SOIL STABILIZATION METHODS SHALL BE UNDERTAKEN COINCIDENTALLY WITH ALL MAJOR SITE IMPROVEMENTS AND CONTINUE DURING THE ENTIRE CONSTRUCTION ACTIVITY PERIOD.

25. THE LIMITS OF FENCING FOR TREE PROTECTION WILL BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION.

RECORD DRAWING CERTIFICATION

26. COMPLY WITH GENERAL PERMIT GP-0-20-001, AS OUTLINED IN THE STORM WATER PREVENTION PLAN (SWPPP).

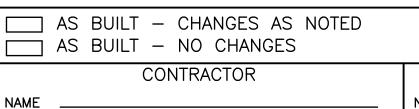
WATER MAIN CONSTRUCTION NOTES:

- 1. THE WATER MAIN SHALL HAVE A MINIMUM COVER OF 4'0" AND A MAXIMUM COVER OF 5'-6" UNLESS SPECIFICALLY DETAILED
- 2.ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISION OF THE
- FOLLOWING
 - a. AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARD C-600 b. NEW YORK STATE SANITARY CODE, PART 5
 - c. GREAT LAKES UPPER MISSISSIPPI RIVER BOARD (GLUMRB) RECOMMENDED
 - STANDARDS FOR WATER WORKS (TEN STATE STANDARDS) d. WESTCHESTER JOINT WATER WORKS (WJWW) RULES AND REGULATIONS
- 3. WJWW DOES NOT GUARANTEE THE LOCATION OR EXTENT OF ANY UNDERGROUND UTILITY. THE DATA SHOWN IS BASED UPON THE BEST AVAILABLE INFORMATION. ALL PROVISIONS OF
- NEW YORK STATE INDUSTRIAL CODE 53 SHALL BE FOLLOWED. 4. THE CONTRACTOR SHALL CALL "DIG SAFELY NEW YORK" AT 1-800-962-7962 AT LEAST 72 HOURS PRIOR TO EXCAVATION IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL
- 5. WATER MAIN SHALL BE CLASS 52 DUCTILE IRON PIPE, PUSH JOINT, WITH A CEMENT MORTAR LIVING. PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LAST REVISION
- OF AWWA C-100. 6. THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH (WCDOH) SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF THE PRESSURE TESTING.
- 7.LEAKAGE AND PRESSURE TESTING, AS DESCRIBED IN SECTION 15.1 OF THE
- SPECIFICATIONS SHALL CONFORM TO THE LATEST REVISION OF AWWA C-600. 8.DISINFECTION SHALL CONFORM TO THE LAST EDITION OF AWWA C-651. EXCEPT THAT
- SECTION 4.3, "THE TABLET METHOD", SHALL NOT BE UTILIZED. 9.BACTERIOLOGICAL SAMPLES ARE REQUIRED FOR EVERY 1,200 FEET OF WATER MAIN INSTALLED AND FROM ALL DEAD ENDS. SAMPLES MUST NOT BE TAKEN ON TWO (2)
- CONSECUTIVE DAYS, IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C-651. 10. NO SERVICE TAPS (UP TO 2-INCHES) SHALL BE MADE, OR CONTROL VALVES OPEN ON THE NEW WATER MAIN UNTIL NOTES 7, 8 AND 9 ARE COMPLIED WITH AND THE RESULTS
- HAVE BEEN APPROVED AND ACCEPTED BY WCDOH. 11. STORM DRAIN, SANITARY SEWER, SUB GRADE AND CURBING MUST BE INSTALLED BEFORE
- THE INSTALLATION OF WATER MAIN. 12. MAINTAIN SEPARATION BETWEEN WATER AND SEWER INFRASTRUCTURE IN ACCORDANCE WITH THE WCDOH REGULATIONS, AS DESCRIBED IN THE STANDARD DETAILS.
- 13. WHERE SEPARATION BETWEEN WATER MAIN AND SEWER INFRASTRUCTURE, AS SHOWN ON THE STANDARD DETAILS CANNOT BE ACCOMPLISHED, SPECIAL PROTECTION AS SHOWN ON THE DRAWINGS SHALL BE PROVIDED. THESE CONDITIONS WILL BE EVALUATED BY WJWW, TOWN OF NORTH CASTLE AND WCDOH ON A CASE-BY-CASE BASIS AND PRIOR WCDOH
- 14. WHERE CROSSING A SANITARY OR STORM SEWER AND HORIZONTAL CLEARANCE IS LESS THAN 10 FEET, HAVING BEEN APPROVED BY WJWW, TOWN OF NORTH CASTLE AND WCDOH. ENCASE WATER MAIN IN 50-150 PSI CONTROLLED LOW STRENGTH AGGREGATE (K-CRETE), AFTER WRAPPING IN POLYETHYLENE SHEETING.
- 15. CONTRACTOR SHALL NOT PLACE ANY JOINTS WITHIN 5 FEET OF ANY STORM AND SANITARY CROSSING.
- 16. THRUST BLOCKS AS SHOWN ON DETAILS 1 TO 5 ON C-17 SHALL BE INSTALLED IN CONFORMANCE WITH THE SIZE OF PIPE TO BE INSTALLED AND THEN ONLY IF THE CONDITION DEPICTED OCCUR.
- 17. HYDRANTS AND BLOWOFFS SHALL BE INSTALLED IN CONFORMANCE WITH STANDARD DETAILS AT DEAD ENDS AS DETERMINED BY WJWW.
- 18. HYDRANTS SHALL BE INSTALLED IN CONFORMANCE WITH STANDARD DETAILS 1&2.
- 19. ALL AMERICAN B-62B-5 FIRE HYDRANTS SHALL BE PURCHASED THROUGH WJWW. 20. ALL PUSH ON JOINTS SHALL HAVE FIELD LOCK GASKETS UNLESS OTHERWISE APPROVED
- 21. ALL MECHANICAL JOINT FITTINGS SHALL HAVE MECHANICAL JOINT RESTRAINT (MEGALUG)
- 22. ALL SERVICE CONNECTIONS SHALL REQUIRE A METER PIT, WHERE INDICATED ON
- 23. FOSTER ADAPTERS SHALL BE USED AS DIRECTED BY WJWW.

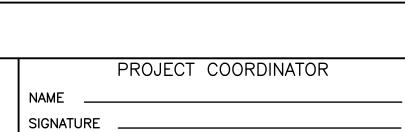
APPROVAL MUST BE OBTAINED.

CONNECTIONS.

- 24. BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED AT ALL NEW OR MODIFIED SERVICE LINES IN ACCORDANCE WITH WJWW, TOWN OF NORTH CASTLE AND WCDOH REGULATIONS.
- 25. ALL PIPE AND APPURTENANCES MUST BE MANUFACTURED IN THE U.S.A 26. SOME OF THE EXISTING WATER VALVES THAT ARE IDENTIFIED ON THE DRAWINGS MAY BE
- BURIED AND INACCESSIBLE. THE CONTRACTOR SHALL EXCAVATE AS NECESSARY, TO UNCOVER BURIED VALVE EXTENSIONS. RAISE THE EXTENSION TO THE PROPER ELEVATION AND REPAIR/REPLACE DAMAGED VALVE EXTENSIONS, IF REQUIRED.
- 27. FOR ALL EXISTING AND NEW VALVES. NOT LOCATED BELOW PAVEMENT. THE CONTRACTOR SHALL INSTALL A 24"x24"x6"D CONCRETE COLLAR AROUND THE VALVE BOX. FLUSH WITH
- 28. THE CONTRACTOR SHALL CONFIRM PROPER OPERATION OF THE EXISTING VALVES IDENTIFIED ON THE DRAWINGS.
- 29. THE CONTRACTOR SHALL EXCAVATE PITS ALONG THE EXISTING WATER LINE AND INSTALL TAPS FOR PRESSURE TESTING.
- 30. THE CONTRACTOR SHALL UTILIZE SOLID SLEEVES FOR ALL CONNECTIONS TO EXISTING WATER MAINS INCLUDING BUT NOT LIMITED TO NEW PIPE, VALVES, TEES AND FITTING



___ DATE ___



__ DATE ___

WESTCHESTER COUNTY, NEW YORK CONTRACT NUMBER DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING DOMESTIC WATER SYSTEM IMPROVEMENTS. WESTCHESTER COUNTY AIRPO TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK

CIVIL

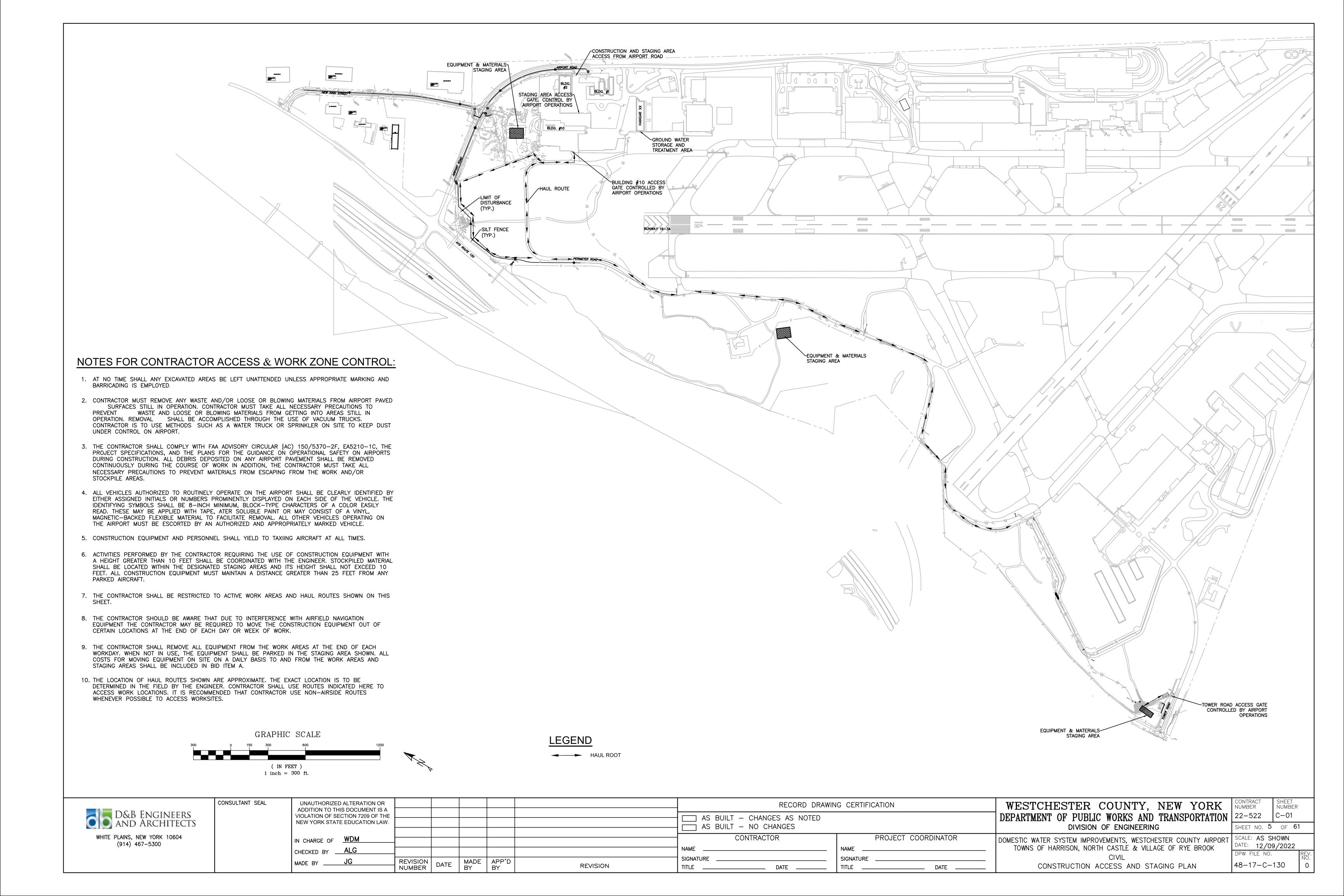
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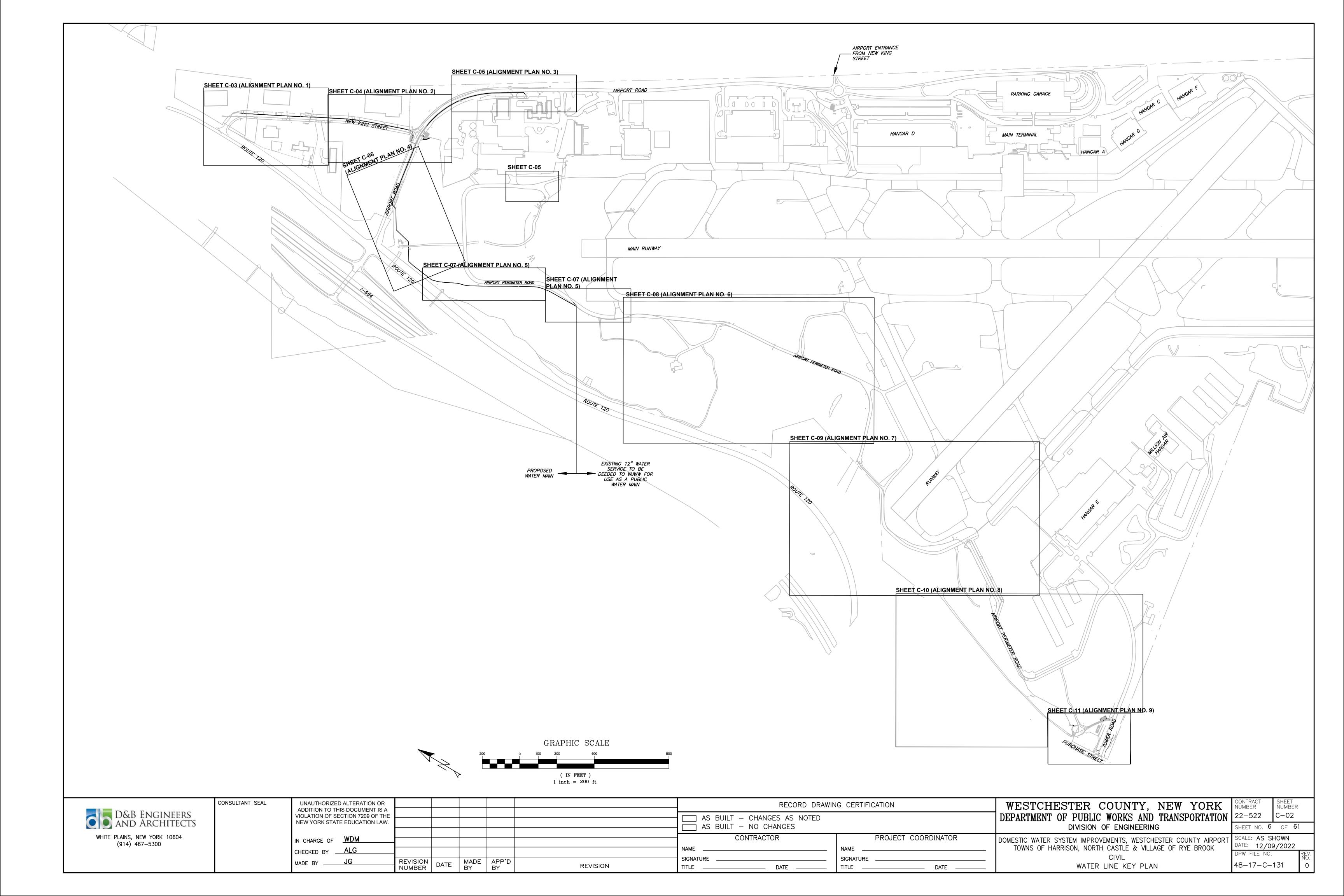
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ORT	SCALE: AS SI DATE: 12/09	HOWN 9/202
	DPW FILE NO.	

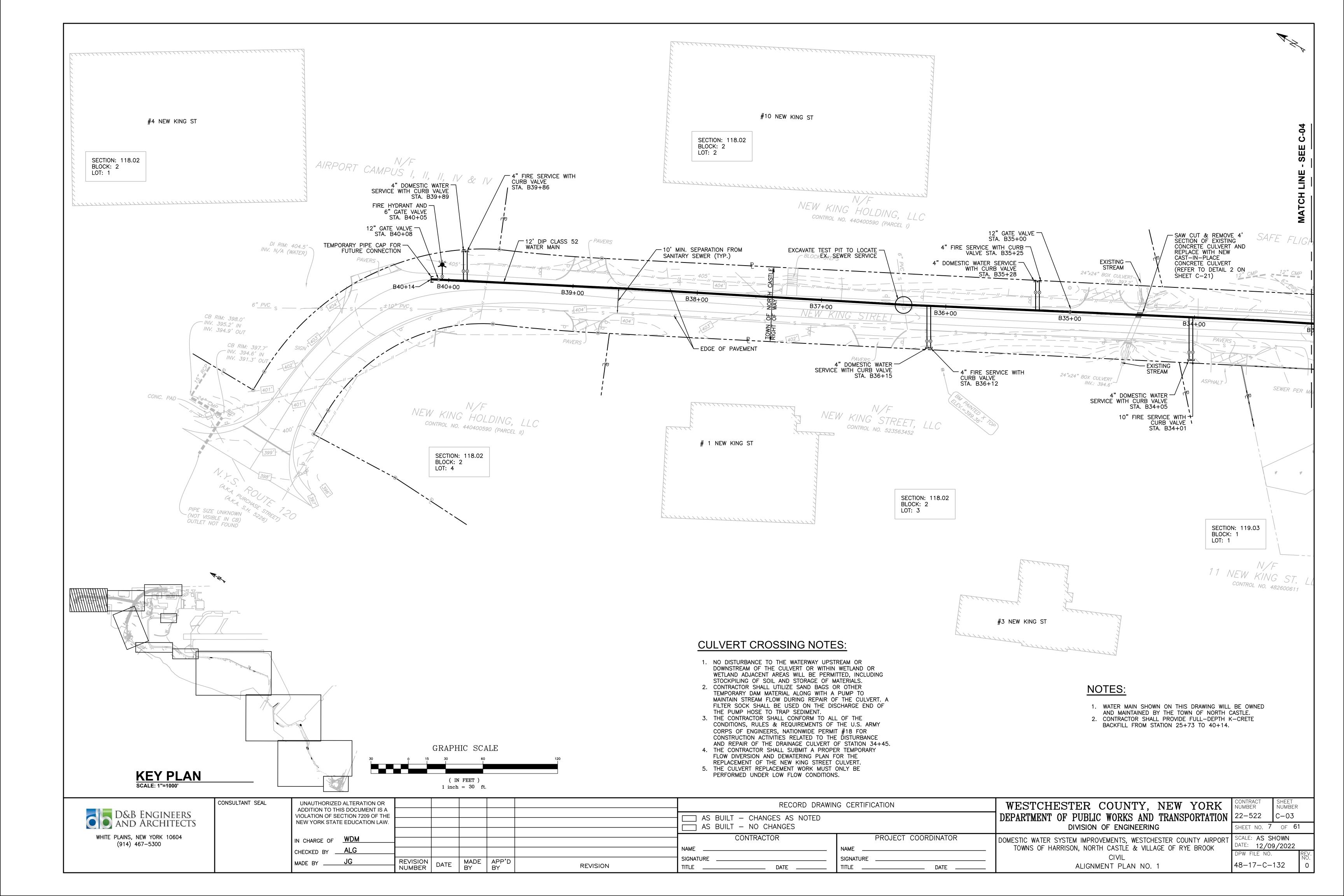
48-17-C-129

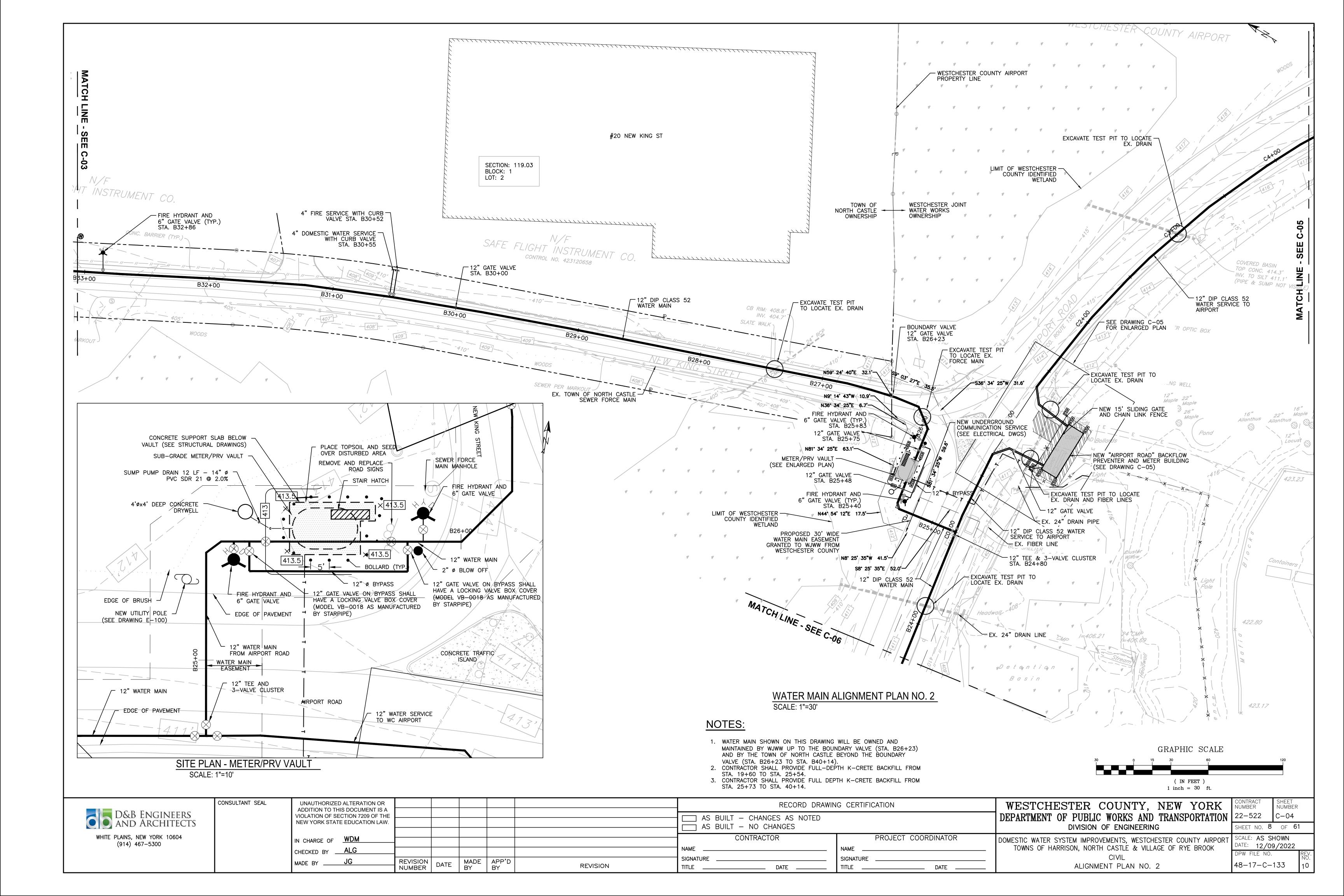
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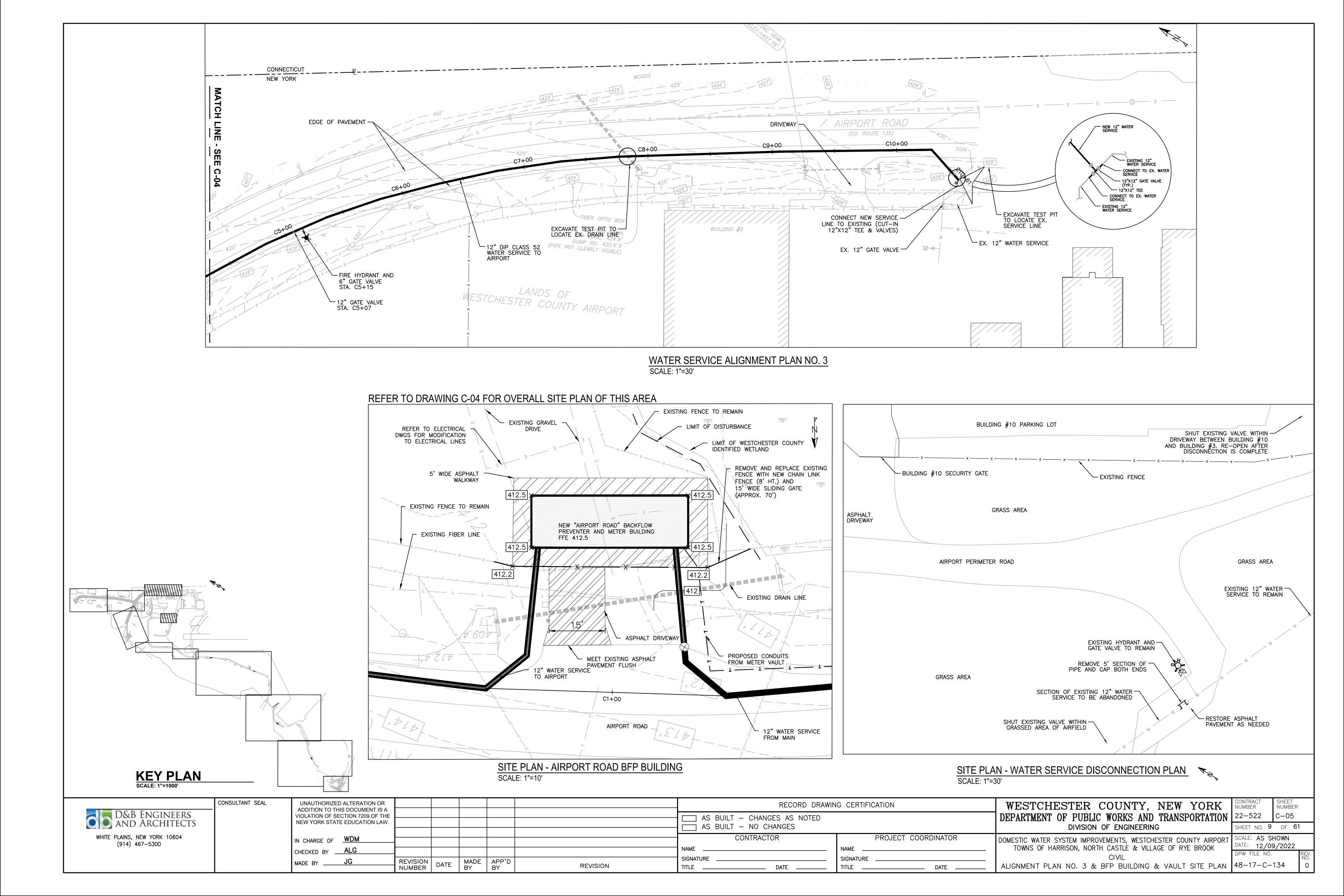
NUMBER

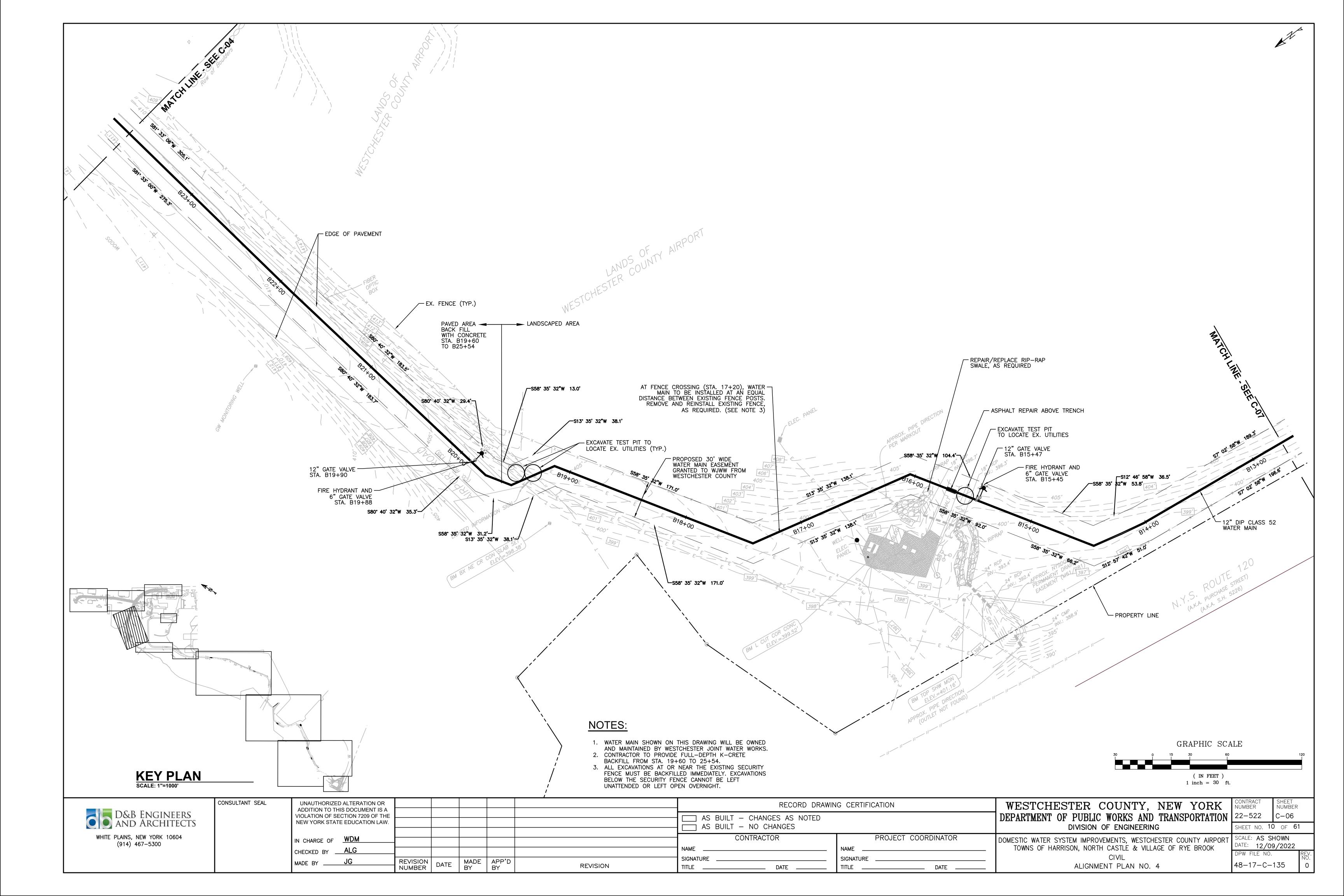


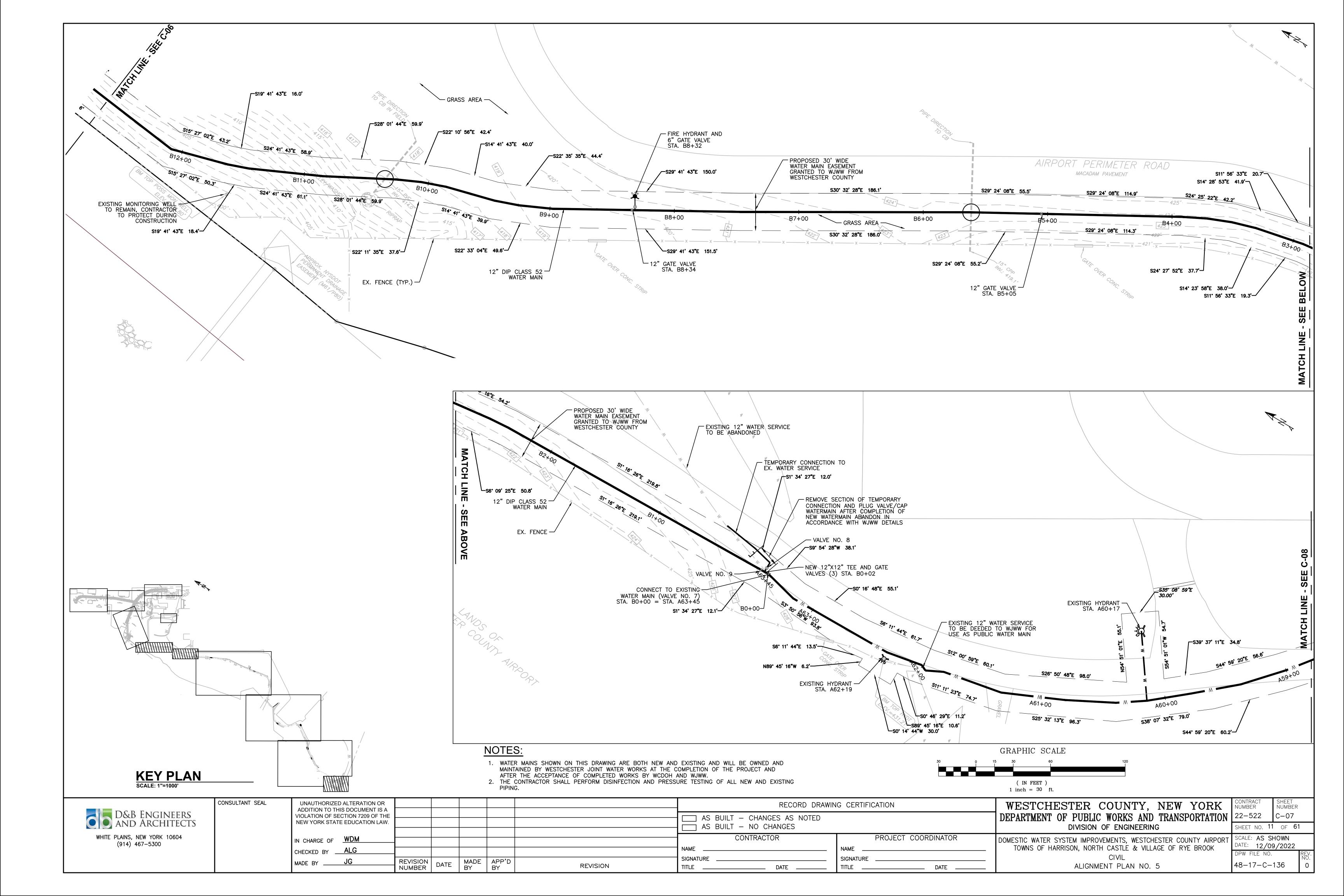


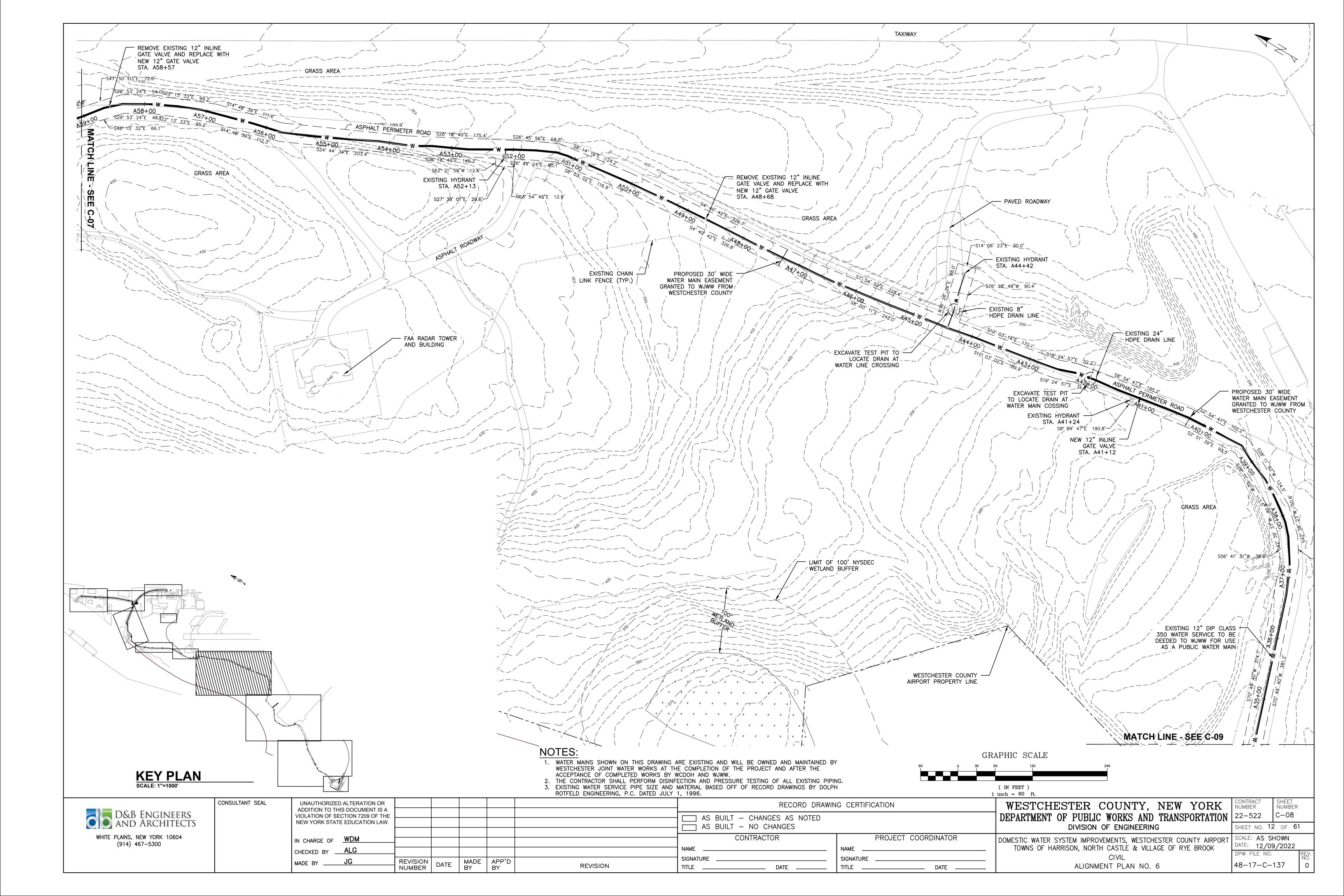


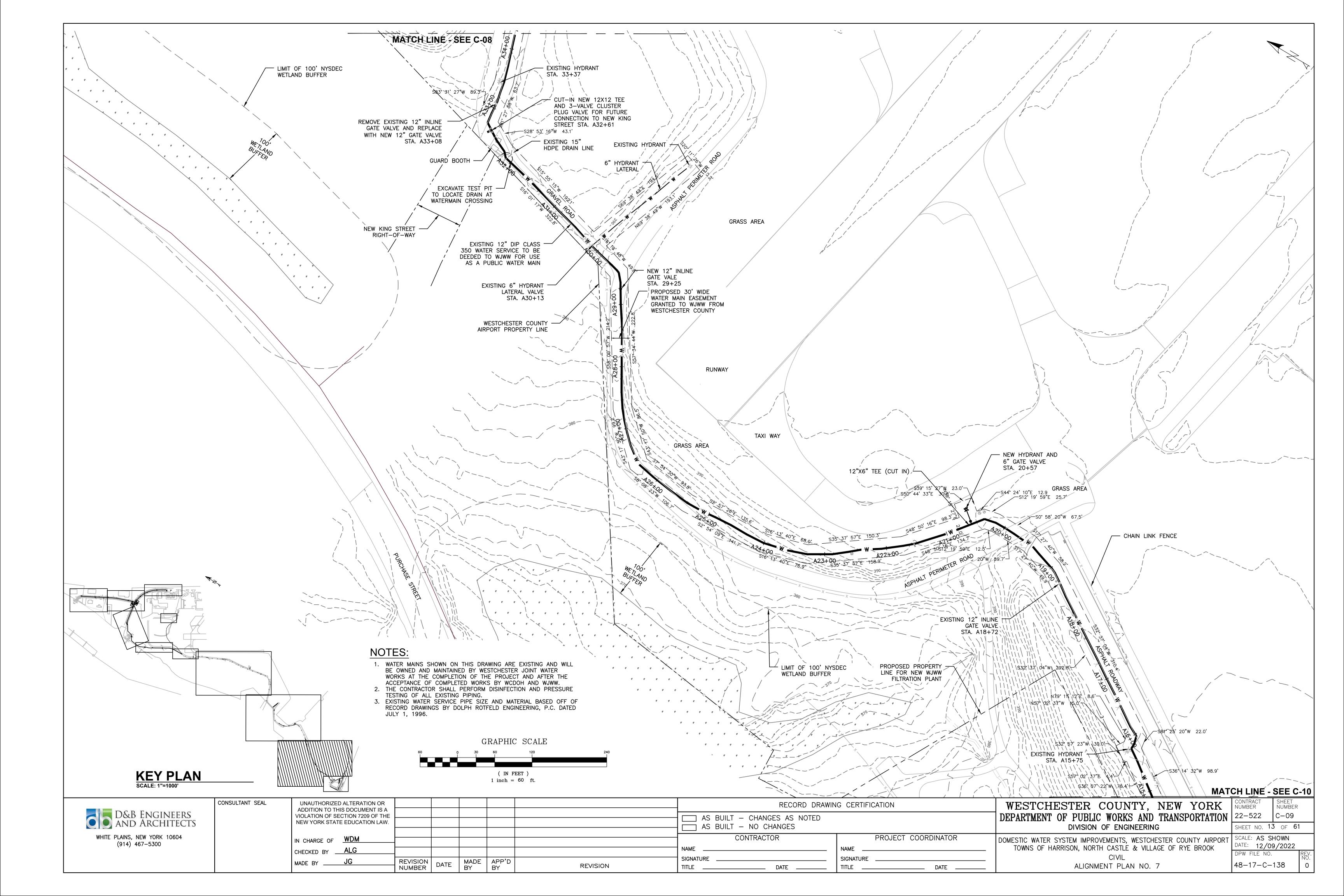


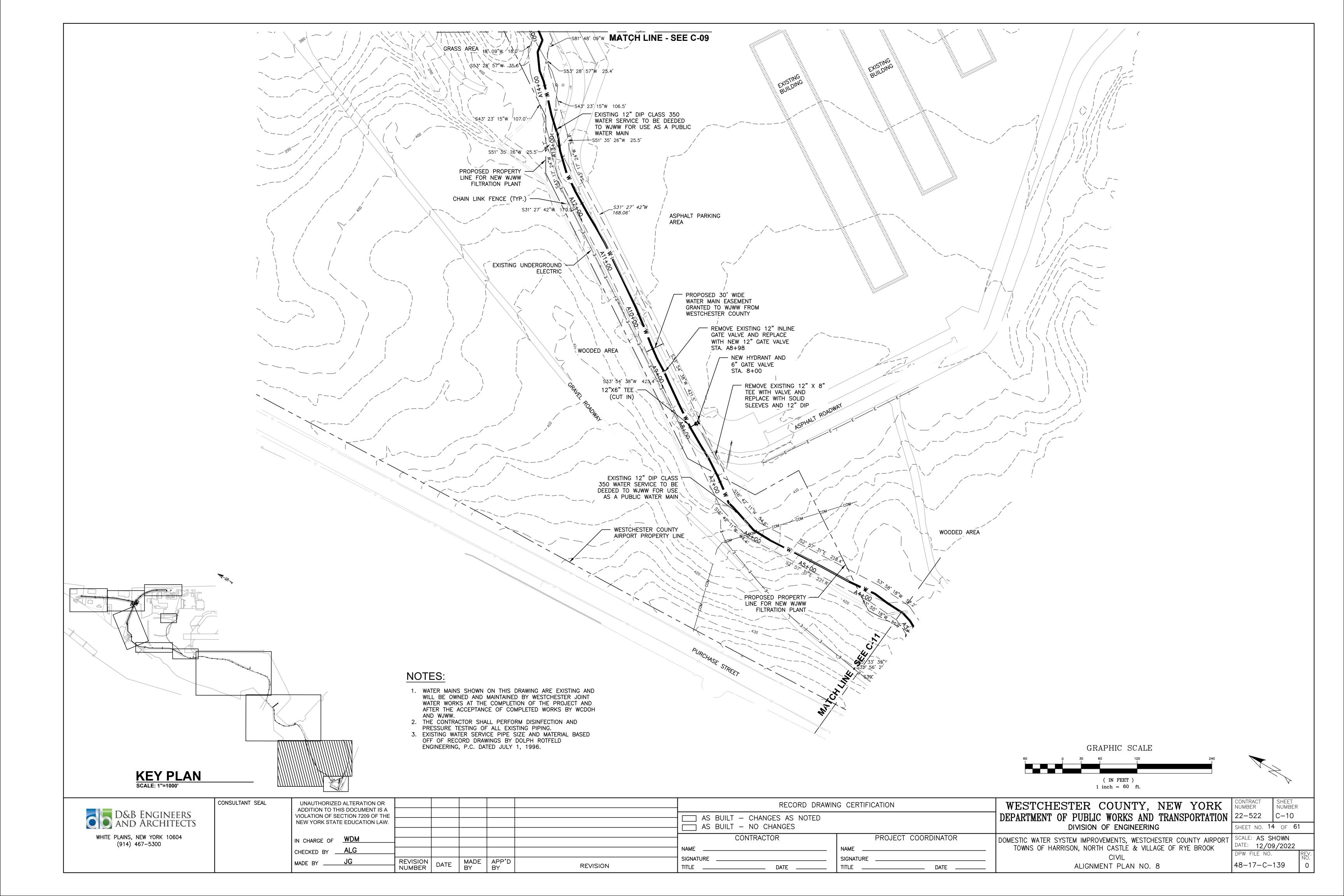


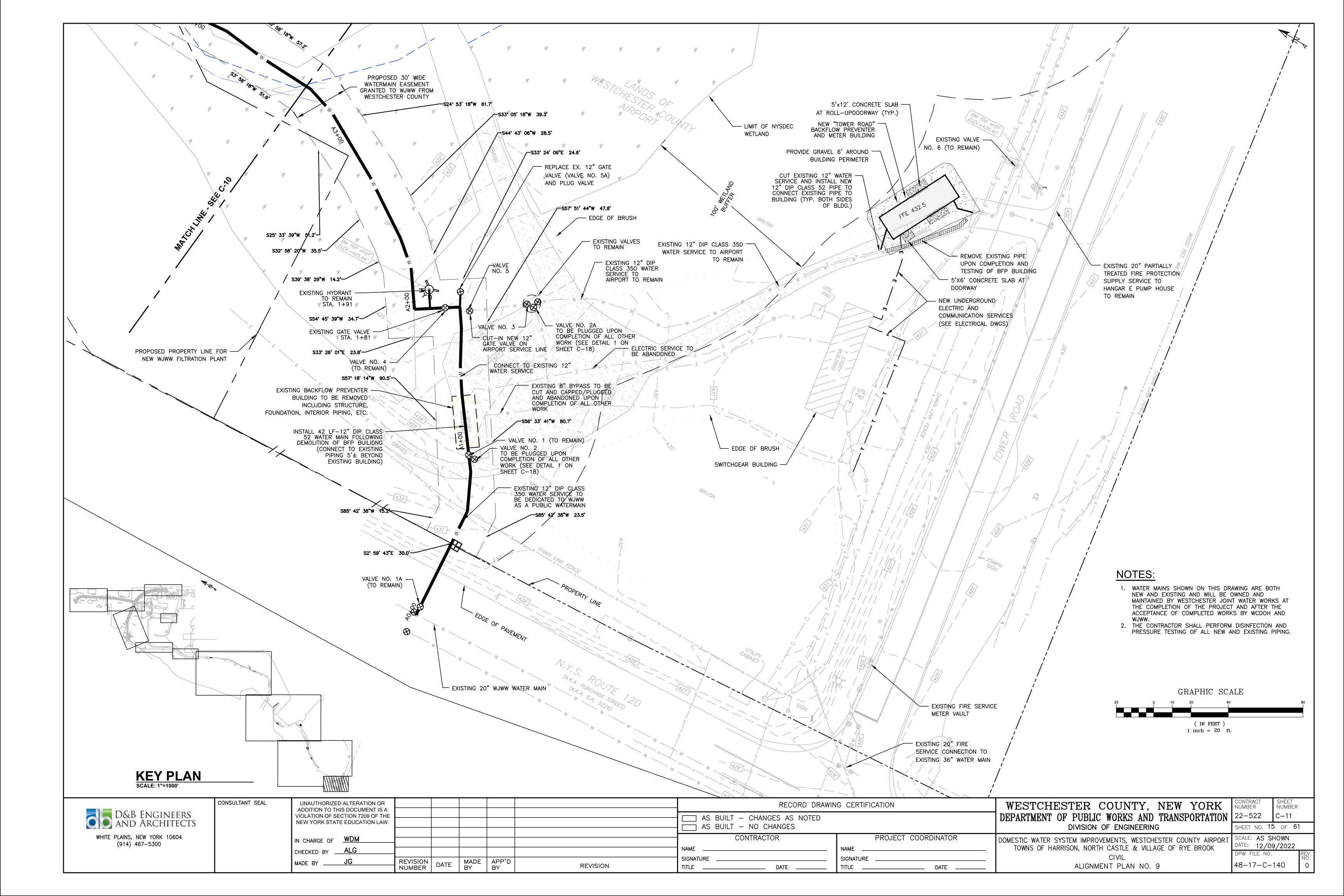


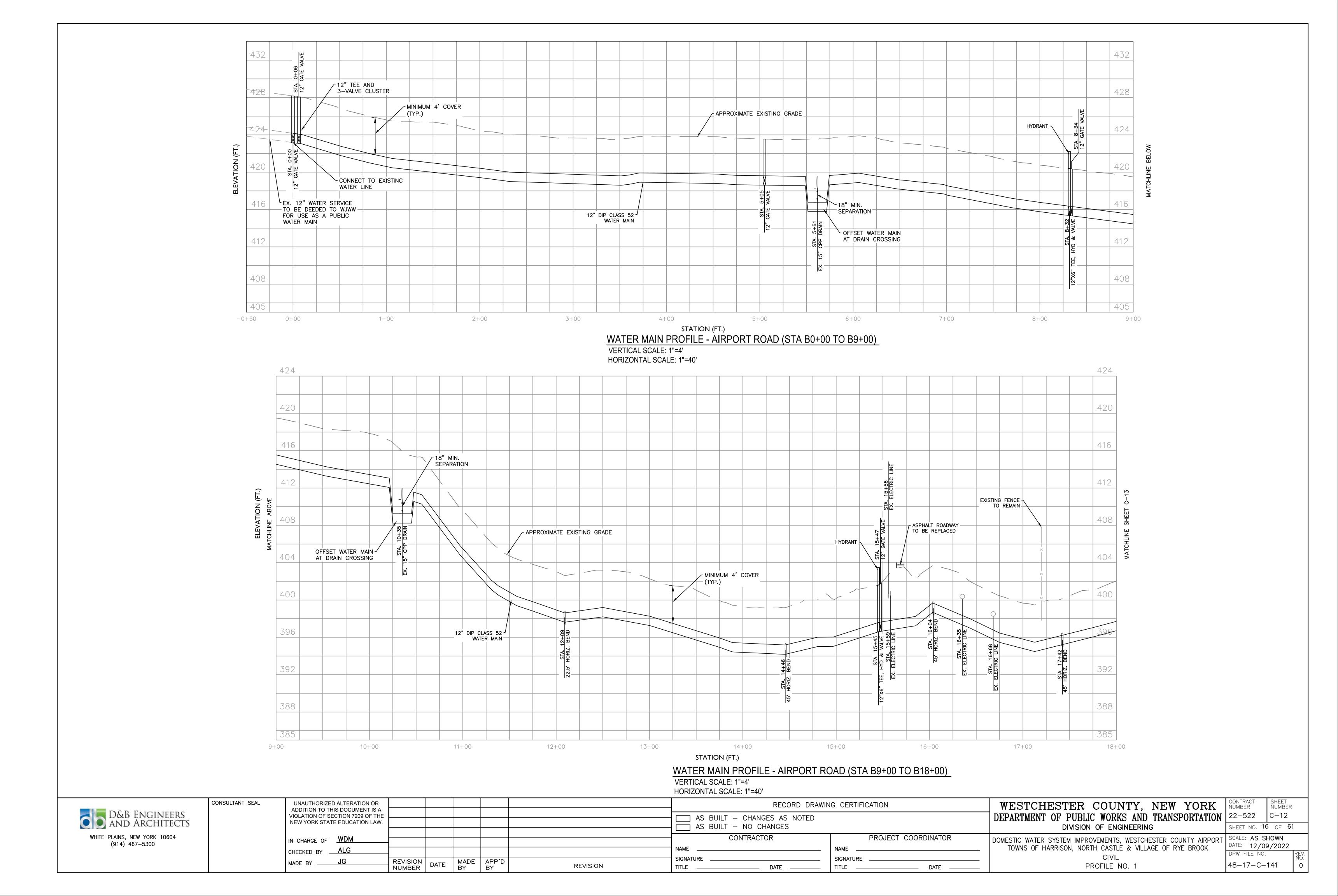


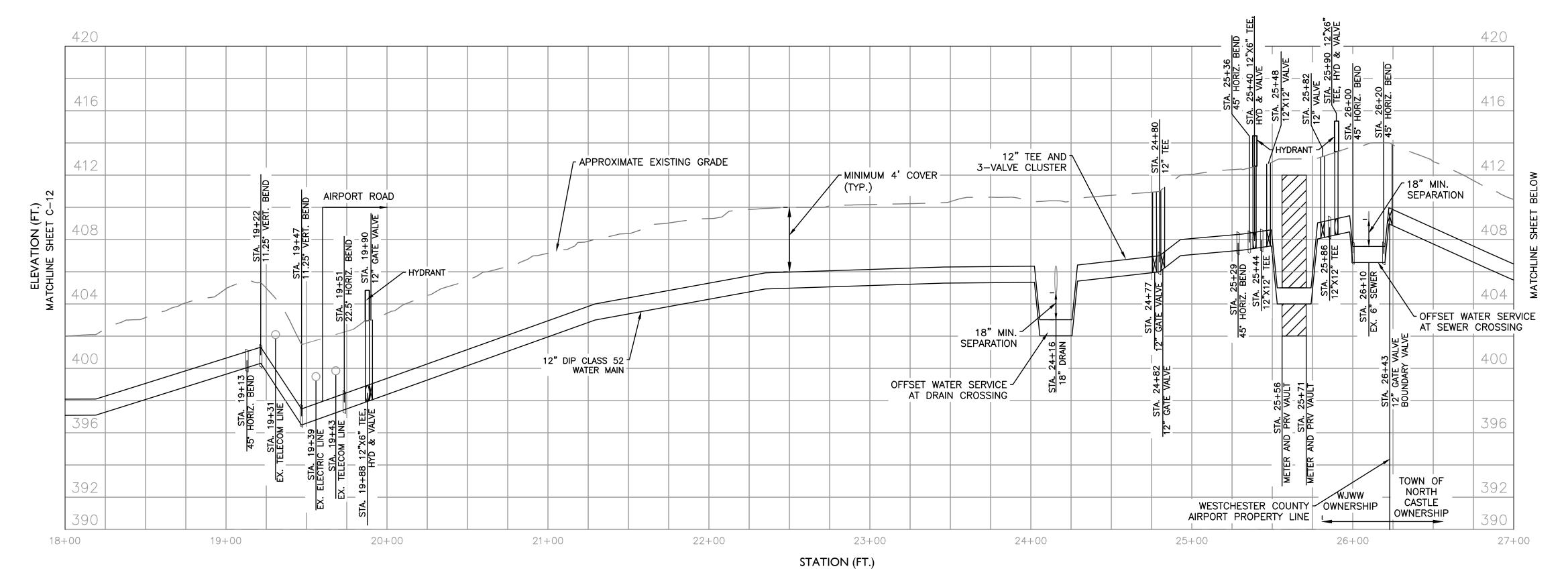










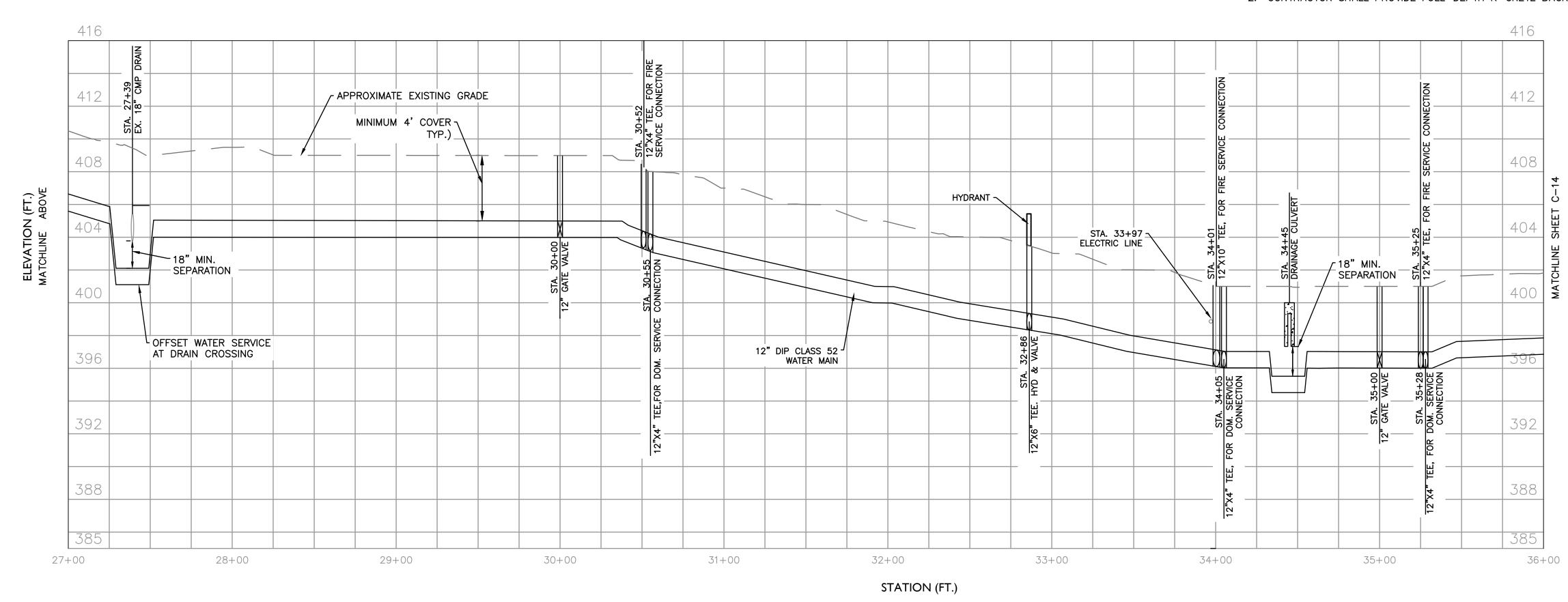


WATER MAIN PROFILE - AIRPORT ROAD (STA B18+00 TO B27+00)

VERTICAL SCALE: 1"=4' HORIZONTAL SCALE: 1"=40'

NOTES:

CONTRACTOR SHALL PROVIDE FULL-DEPTH K-CRETE BACKFILL FROM STA. 19+60 TO STA. 25+54
 CONTRACTOR SHALL PROVIDE FULL-DEPTH K-CRETE BACKFILL FROM STA. 25+73 TO 40+14



WATER MAIN PROFILE - NEW KING STREET (STA B27+00 TO B36+00)

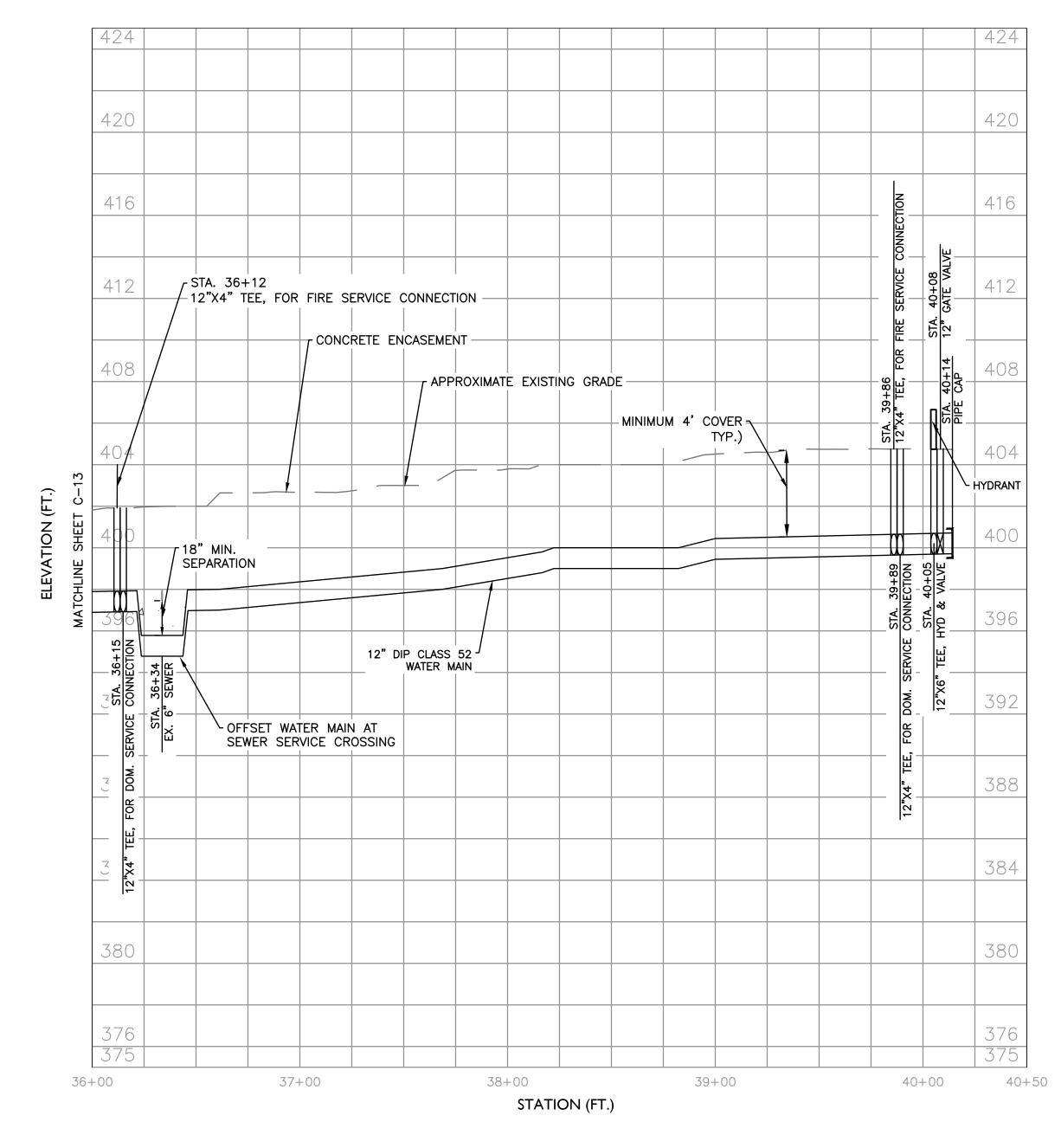
VERTICAL SCALE: 1"=4' HORIZONTAL SCALE: 1"=40'

NOTES:

1. CONTRACTOR SHALL PROVIDE FULL-DEPTH K-CRETE BACKFILL FROM STA. 25+73 TO STA. 40+14



UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A		RECORD DRAWING CERTIFICATION	WESTCHESTER COUNTY, NEW YORK	CONTRACT SHEET NUMBER NUMBER
VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.		AS BUILT — CHANGES AS NOTED AS BUILT — NO CHANGES	DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING	22-522
IN CHARGE OF WDM CHECKED BY ALG MADE BY JG REVISION NUMBE	ON DATE MADE APP'D	CONTRACTOR PROJECT COORDINATOR NAME NAME SIGNATURE DATE TITLE DATE	TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK CIVIL	SCALE: AS SHOWN DATE: 12/09/2022 DPW FILE NO. REV. NO. 48-17-C-142 0



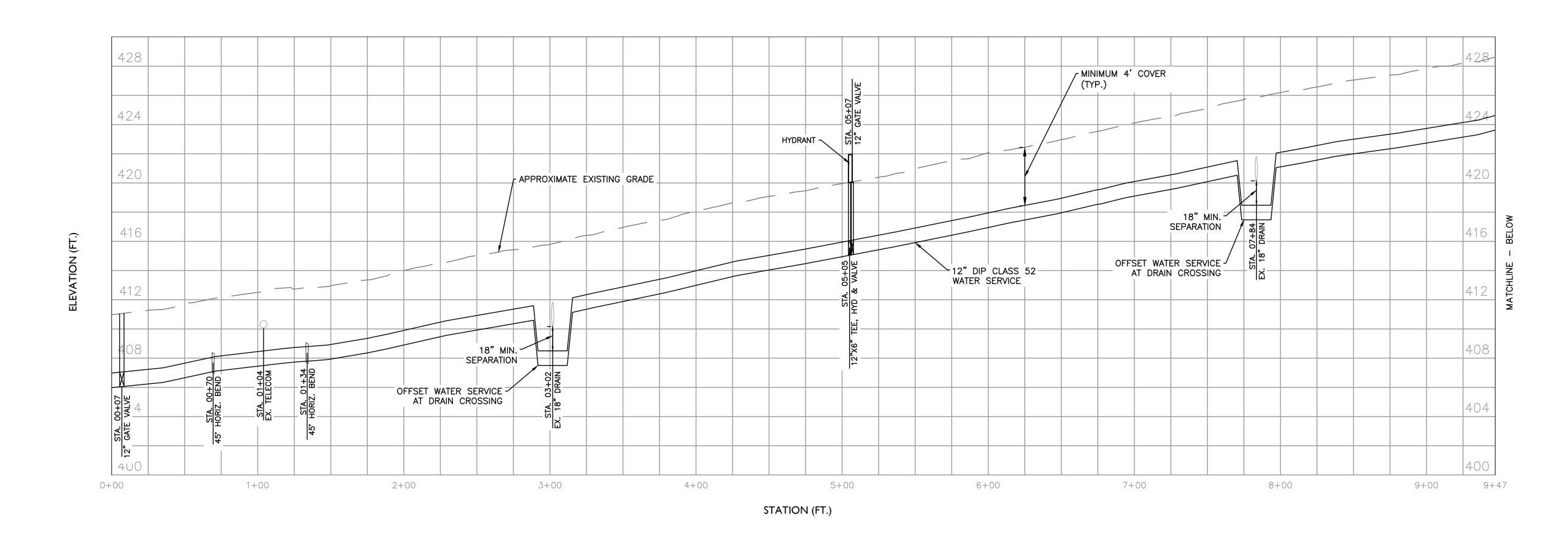
WATER MAIN PROFILE - NEW KING STREET (STA B36+00 TO B40+35)

VERTICAL SCALE: 1"=4' HORIZONTAL SCALE: 1"=40'

NOTES:

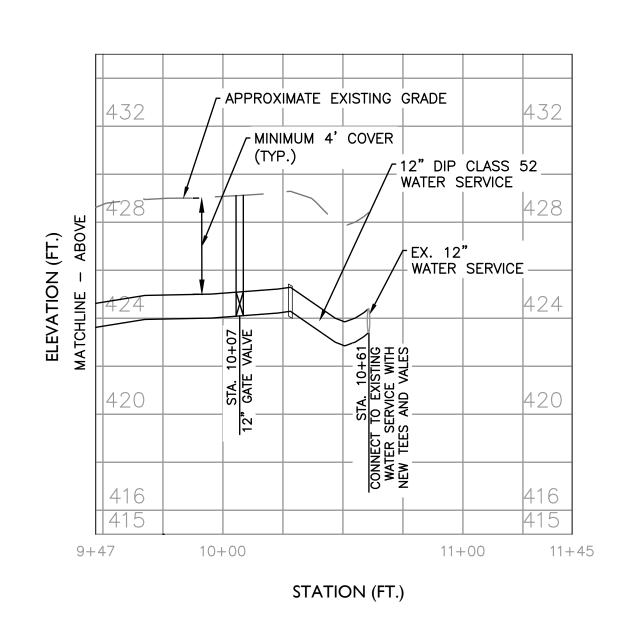
1. CONTRACTOR SHALL PROVIDE FULL-DEPTH K-CRETE BACKFILL FROM STA. 25+73 TO STA. 40+14

Co	ONSULTANT SEAL	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A				RECORD DRAV	VING CERTIFICATION	WESTCHESTER COUNTY, NEW YORK	CONTRACT SHEET NUMBER
D&B ENGINEERS AND ARCHITECTS		VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.				AS BUILT — CHANGES AS NOTED AS BUILT — NO CHANGES		DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING	N 22-522 C-14 SHEET NO. 18 OF 61
WHITE PLAINS, NEW YORK 10604 (914) 467-5300		IN CHARGE OF WDM CHECKED BY ALG		MADE ADD'D		CONTRACTOR NAME SIGNATURE	PROJECT COORDINATOR NAME SIGNATURE	DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORTOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK CIVIL	SCALE: AS SHOWN DATE: 12/09/2022 DPW FILE NO. REV. NO.
		MADE BYJG	REVISION NUMBER	DATE MADE APP'D BY	REVISION	SIGNATURE DATE	SIGNATURE DATE	PROFILE NO. 3	48-17-C-1



WATER SERVICE PROFILE - AIRPORT ROAD (STA C0+00 TO C9+47)

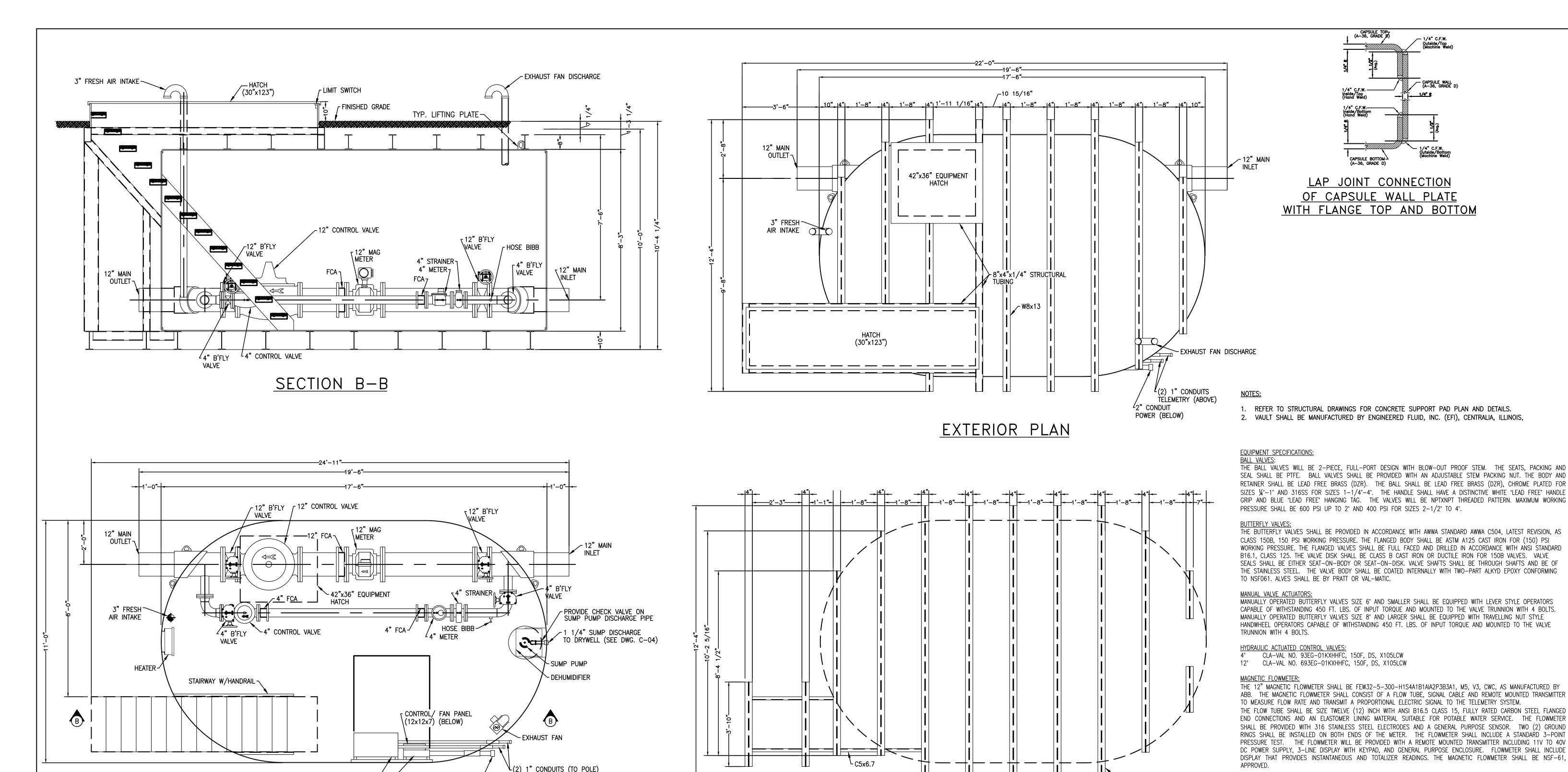
VERTICAL SCALE: 1"=4' HORIZONTAL SCALE: 1"=40'



WATER SERVICE PROFILE - AIRPORT ROAD (STA C9+47 TO C10+61)

VERTICAL SCALE: 1"=4' HORIZONTAL SCALE: 1"=40'

	ONSULTANT SEAL	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A				RECORD DRAW	NG CERTIFICATION	WESTCHESTER COUNTY, NEW YORK	CONTRACT NUMBER	SHEET NUMBER
D&B ENGINEERS AND ARCHITECTS		VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.				AS BUILT — CHANGES AS NOTED AS BUILT — NO CHANGES		DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING	22-522 SHEET NO. 19	C-15 19 OF 61
WHITE PLAINS, NEW YORK 10604 (914) 467-5300		IN CHARGE OF WDM CHECKED BY ALG				CONTRACTOR NAME SIGNATURE	PROJECT COORDINATOR NAME	DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK	SCALE: AS S DATE: 12/0 DPW FILE NO.	09/2022
		MADE BY JG	REVISION DATE MADE BY	APP'D BY	REVISION	TITLE DATE	TITLE DATE	PROFILE NO. 4	48-17-C-	-144



TURBINE FLOW METER WITH STRAINER:

THE CONTROL VALVE STATION SHALL INCLUDE ONE (1) TURBINE TYPE METERS WITH PROGRAMMABLE REGISTERS LOCATED AS SHOWN ON THE DRAWINGS. THE SIZE SHALL BE 4" WITH FLANGE MOUNTED STRAINERS DIRECTLY UPSTREAM OF THE FLOW METER BODIES. THE METER/STRAINER ASSEMBLY SHALL BE A SENSUS TURBINE METER AS MANUFACTURED BY

ALARMS CONDITION AND OUTPUTS:

THE FOLLOWING ALARMS/STATUS POINTS SHALL BE INCLUDED WITHIN THE BOOSTER PUMP STATION AND WIRED BACK TO THE INTERFACE PANEL. ALL ALARM CONDITIONS WILL BE TRANSMITTED TO THE WJWW VIA THE STATION'S SCADA SYSTEM.

- 1. WATER WITHIN STATION THE WATER ALARM SHALL BE A 120 VOLT AC CIRCUIT DRIVEN BY A FLOAT SWITCH WALL-MOUNTED WITHIN THE EQUIPMENT CAPSULE. THE FLOAT SWITCH SHALL BE OF THE MAGNETIC FLOAT TYPE WITH THE FLOAT MOVING UP AND DOWN A GUIDE TUBE. ONE HALF (1/2) INCH OF FLOAT MOVEMENT SHALL ACTUATE THE SPST REED TYPE SWITCH INSIDE THE GUIDE TUBE. THE SWITCH SHALL BE SO MOUNTED THAT WHEN WATER REACHES A POINT ONE (1) INCH ABOVE THE SUMP FLOAT SWITCH WILL ACTIVATE THE ALARM.
- 2. UNAUTHORIZED ENTRY ALARMS ON HATCHES AND DOORS THE UNAUTHORIZED ENTRY ALARM SHALL BE DRIVEN BY A HATCH-MOUNTED LIMIT SWITCH. THE LIMIT SWITCH SHALL BE THE ADJUSTABLE ARM, ROLLER CONTACTOR TYPE WHICH MAKES AN INTERNAL SPST MICRO SWITCH. THE SWITCH WILL BE SO MOUNTED AS TO ACTIVE ANYTIME THE ENTRANCE MAN WAY HATCH IS OPENED.
- 3. HIGH DISCHARGE PRESSURE ALARM THE HIGH DISCHARGE PRESSURE ALARM SHALL BE PROVIDED BY THE HIGH DISCHARGE LOCKOUT PRESSURE SWITCH AS DESCRIBED ELSEWHERE.
- 4. FIRE/SMOKE ALARM THE FIRE/SMOKE ALARM SHALL BE PROVIDED BY A FIRE/SMOKE DETECTOR IN THE STATION
- AS AN INPUT TO THE LOGIC. 5. HIGH STATION TEMPERATURE ALARM - THE STATION HIGH TEMPERATURE ALARM SHALL BE PROVIDED BY A
- THERMOSTAT IN THE STATION.
- 6. LOW TEMPERATURE ALARM THE STATION LOW TEMPERATURE ALARM SHALL BE PROVIDED BY A THERMOSTAT IN THE STATION.

D&B ENGINEERS AND ARCHITECTS WHITE PLAINS, NEW YORK 10604 (914) 467-5300

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. IN CHARGE OF WDM

SCADA RTU PANEL

INTERIOR PLAN

CONSULTANT SEAL

(36"x24"x13") -

LIGHTING PANEL (ABOVE)

(14.92x14.25x3.75)

NAME CHECKED BY ALG **SIGNATURE** REVISION DATE MADE BY ______JG | MADE | APP'D **REVISION** NUMBER BY BY

(3) 2" CONDUITS (TO BFP BLDG)

 \angle (2) 2" CONDUITS (TO POLE)

POWER (ABOVE)

SPARE (BELOW)

AS BUILT - CHANGES AS NOTED AS BUILT - NO CHANGES CONTRACTOR

DATE ___

PROJECT COORDINATOR NAME SIGNATURE

DATE

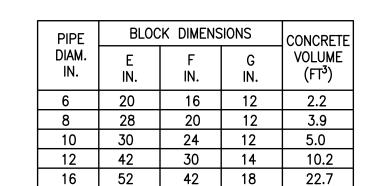
SKID PLAN

RECORD DRAWING CERTIFICATION

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION | 22-522 DIVISION OF ENGINEERING DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT

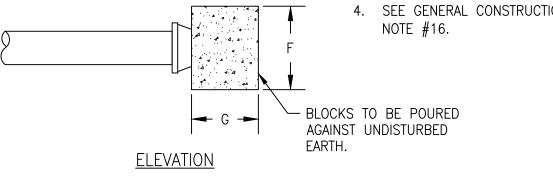
NUMBER C-16 SHEET NO. 20 OF 61 SCALE: AS SHOWN

DATE: 12/09/2022 TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK DPW FILE NO. PREFABRICATED FLOW METER AND PRV VAULT 48-17-C-145



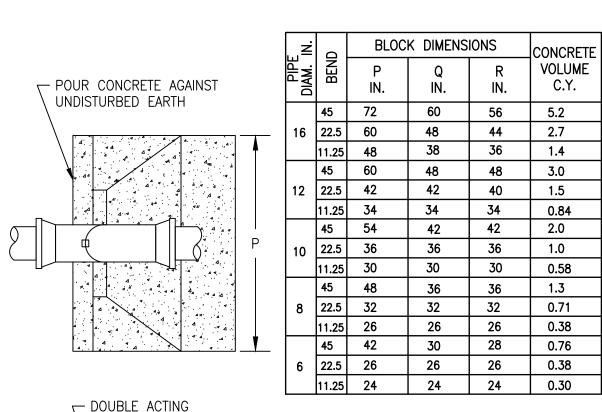
<u>PLAN</u>

- 1. MIN. 3500 PSI CONCRETE TO BE USED.
- 2. BLOCK DIMENSIONS ARE MINIMUM AND ARE BASED UPON SOIL BEARING PRESSURE OF 2000 PSF AND WATER PRESSURE OF 150 PSI. WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.
- 3. FOR USE ON ABANDONED LINES AND DEAD ENDS WHERE NO EXTENSION IS CONTEMPLATED.
- 4. SEE GENERAL CONSTRUCTION NOTE #16.



THRUST BLOCKING FOR CAPS, PLUGS AND VALVES

NOT TO SCALE

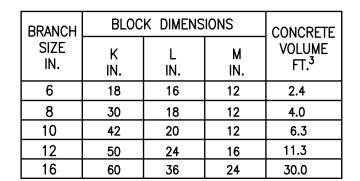


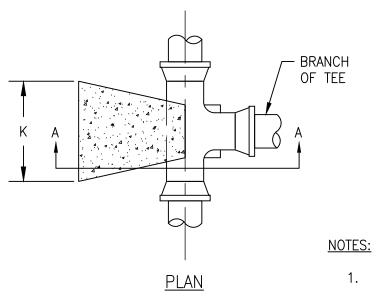
STEEL WEDGES BANDS - SEE NOTE 4

- 1. MIN. 3500 PSI CONCRETE TO BE USED.
- 2. BLOCK DIMENSIONS ARE MINIMUM AND ARE BASED UPON SOIL BEARING PRESSURE OF 2000 PSF AND WATER PRESSURE OF 150 PSI. WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.
- 3. WHERE 90° CREST VERTICAL BEND IS REQUIRED APPROVAL MUST FIRST BE OBTAINED FROM THE ENGINEER. A SPECIAL DESIGN WILL BE REQUIRED.
- 4. 2 #6 REINFORCING RODS REQUIRED FOR 16" 45° BEND; 1 #6 REINFORCING ROD REQUIRED FOR ALL OTHER BENDS. EXPOSED BARS TO BE PROVIDED WITH PROTECTIVE COATING.



CONSULTANT SEAL





- BLOCKS TO BE POURED

AGAINST UNDISTURBED

SECTION AA

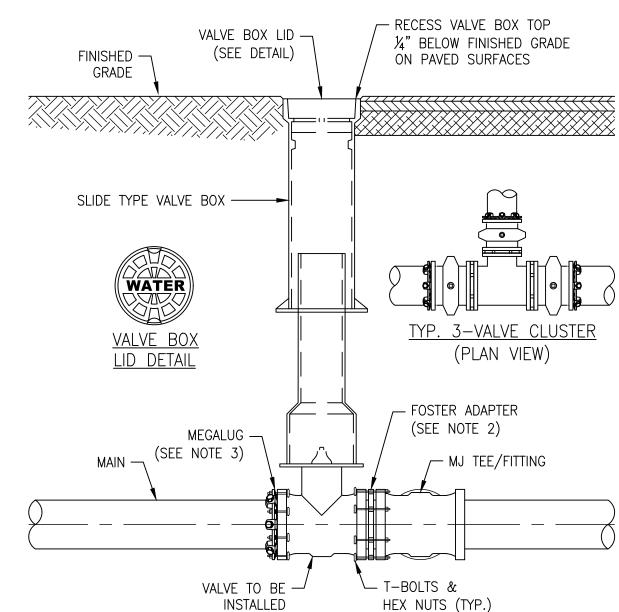
1. MIN. 3500 PSI CONCRETE TO BE USED.

2. BLOCK DIMENSIONS ARE MINIMUM AND ARE BASED UPON SOIL BEARING PRESSURE OF 2000 PSF AND WATER PRESSURE OF 150 PSI. WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.



THRUST BLOCKING FOR TEES

NOT TO SCALE



NOTES:

- 1. ALL VALVES TO BE RESILIENT WEDGE GATE VALVES, EPOXY COATED, MJ X MJ, MANUFACTURED BY MUELLER OR APPROVED EQUAL. MAINS LARGER THAN 12"Ø MAY WARRANT USE OF BUTTERFLY VALVES, TO BE APPROVED BY WJWW ON CASE BY CASE
- 2. VALVES TO BE LOCATED WITHIN 10-FT OF A MECHANICAL JOINT SHOULD BE INSTALLED AND RESTRAINED WITH A FOSTER ADAPTER AT THE JOINT WHEN FEASIBLE.

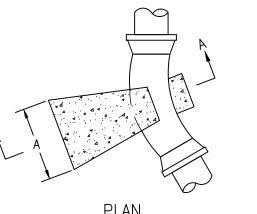
REVISION

3. VALVES INSTALLED ON STRAIGHT PIPE SHALL BE RESTRAINED TO THE PIPE WITH

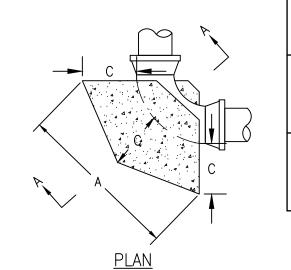
- 4. ALL BOLTING ACCESSORIES SHALL BE CORROSION RESISTANT COR-BLU
- FLUOROPOLYMER COATED OR APPROVED EQUAL. 5. ALL VALVES TO MEET AWWA C515/C504 LATEST REVISION.



TYPICAL VALVE INSTALLATION



TYP. FOR $11\frac{1}{4}^{\circ}-22\frac{1}{2}^{\circ}-45^{\circ}$ BENDS



20 | 12 | 1.25 18 18 | 12 | 48 22 16 20 | 12 4.0 28 18 18 12 2.7 16 12 2.2 11.25 16 20 | 12 4.4 90 34 20 18 | 12 2.5 14 14 | 12 | 1.6 90 24 16 | 12 2.5 45 | 14 14 12 1.5 12 | 12 22.5 12 1.2

BLOCK DIMENSIONS

32 32

22 26

18 | 12 |

26 20

22 | 10 |

CONCRETE

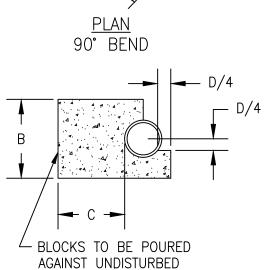
| VOLUME

FT.³

39.5

3.8

15.0



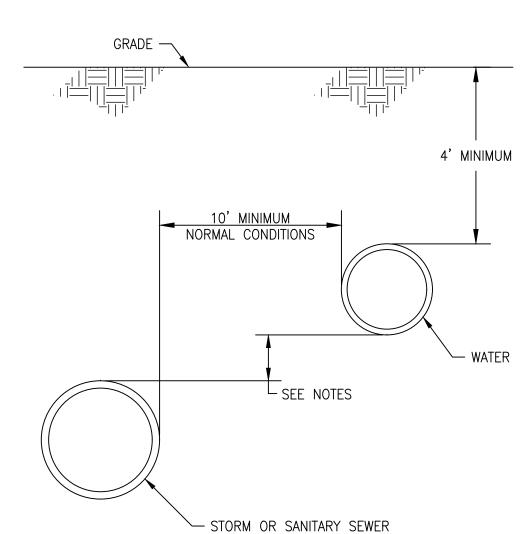
1. MIN. 3500 PSI CONCRETE TO BE USED.

2. BLOCK DIMENSIONS ARE MINIMUM AND ARE BASED UPON SOIL BEARING PRESSURE OF 2000 PSF AND WATER PRESSURE OF 150 PSI. WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.

SECTION A-A

EARTH.





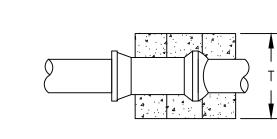
NOTES:

- 1. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY OR STORM SEWER, SEPTIC TANK OR SUBSOIL TREATMENT SYSTEM. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.
- 2. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A 10 FOOT SEPARATION, WJWW WITH WCDOH APPROVAL MAY ALLOW DEVIATION ON A CASE-BY-CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER.

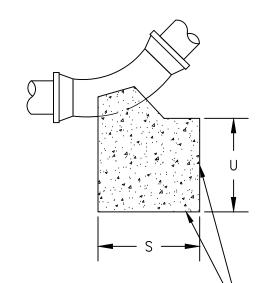
NAME

SIGNATURE





<u>PLAN</u>



THESE TWO FACES TO BE -POURED AGAINST

ELEVATION

UNDISTURBED EARTH.

34 | 20 | 18.9 22.5 42 20 18 8.8 90 | 36 | 36 | 36 | 27.0 45 36 24 18 9.0 22.5 28 18 12 3.5 90 | 30 |

BLOCK DIMENSIONS

VOLUME

64.0

(3)

30 | 30 | 15.6 45 30 20 18 6.3 22.5 22 16 12 2.4 (3) 90 | 24 | 24 | 8.0 45 24 16 | 12 | 2.7 12 | 12 | 1.5 (3) 18 | 18 | 3.4 90 | 18 | 45 | 18 12 | 12 | 1.5 12 12 | 12 | 1.0 (3)

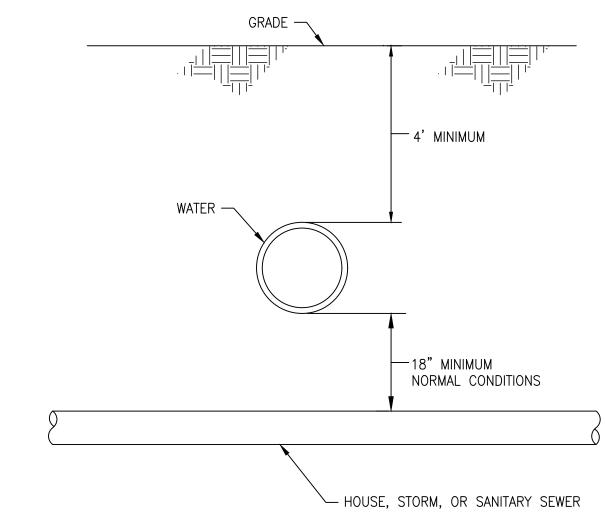
1. MIN. 3500 PSI CONCRETE TO BE USED.

- 2. BLOCK DIMENSIONS ARE MINIMUM AND ARE BASED UPON SOIL BEARING PRESSURE OF 2000 PSF AND WATER PRESSURE OF 150 PSI. WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.
- 3. BEND TO BE SET AGAINST UNDISTURBED EARTH, BACKFILL TO BE FIRMLY TAMPED, OR BLOCK TO BE FURNISHED AS DIRECTED BY THE ENGINEER.



ANCHORAGE FOR THRUST BLOCKING FOR SAG VERTICAL BENDS

NOT TO SCALE



NOTES:

- 1. WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES 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 WITH PREFERENCE TO THE WATER MAIN LOCATED ABOVE THE SEWER.
- 2. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE A MINIMUM OF 5 FEET FROM THE CROSSING. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.
- 3. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN AN 18 INCH SEPARATION, WJWW WITH WCDOH APPROVAL, MAY ALLOW DEVIATION ON A CASE-BY-CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER.

SEPARATION OF WATER MAIN AND SEWER CROSSINGS NOT TO SCALE

D&B ENGINEERS AND ARCHITECTS

WHITE PLAINS, NEW YORK 10604

(914) 467-5300

	ALTERATION OR					
	IS DOCUMENT IS A ECTION 7209 OF THE					
	E EDUCATION LAW.					
IN CHARGE OF	WDM					
CHECKED BY _	ALG					
MADE BY	JG	REVISION NUMBER	DATE	MADE BY	APP'D BY	
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RECORD DRAWING CERTIFICATION AS BUILT - CHANGES AS NOTED AS BUILT - NO CHANGES

DATE ___

CONTRACTOR

NAME

SIGNATURE

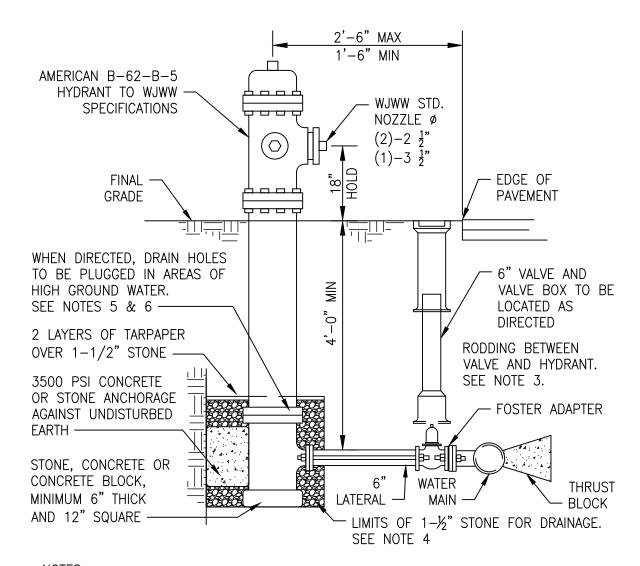
TITLE _

PROJECT COORDINATOR DATE

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION | 22-522 DIVISION OF ENGINEERING DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK

WATER LINE DETAILS NO. 1

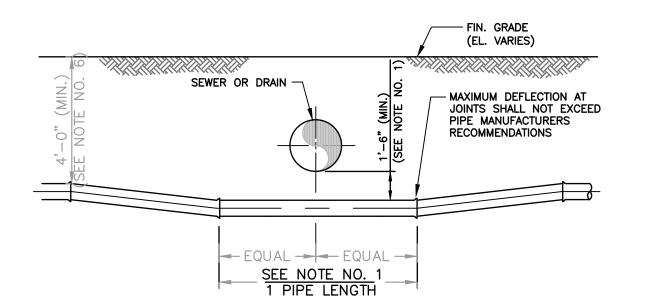
NUMBER C-17 SHEET NO. 21 OF 61 SCALE: AS SHOWN DATE: 12/09/2022 DPW FILE NO. 48-17-C-146



1. PUMPER OUTLET SHALL FACE STREET, HOSE OUTLETS SHALL BE PARALLEL TO STREET.

- PLUMBNESS OF HYDRANT TO BE CHECKED IN TWO DIRECTIONS, 90° APART. RODDING SHALL CONSIST OF TWO 3/4" THREADED RODS CAREFULLY COATED WITH BITUMASTIC PAINT. RODDING MAY BE OMITTED BETWEEN THE MAIN AND LATERAL VALVE
- ONLY WHERE A TAPPING VALVE OR HYDRANT VALVE ANCHORING TEE IS USED. 4. 1-1/2" STONE SHALL BE PLACED AROUND THE HYDRANT FROM THE BOTTOM OF THE TRENCH, BUT AT LEAST 6" BELOW THE BASE OF THE HYDRANT TO 6" ABOVE THE WASTE OPENING AND TO A DISTANCE OF 12" AROUND THE ELBOW.
- 5. HYDRANTS WITH PLUGGED DRAINS SHALL HAVE A 3" BLACK CIRCLE PAINTED DIRECTLY UNDER THE PUMPER OUTLET.
- 6. HYDRANT DRAINAGE: 6.A. HYDRANT DRAINS SHOULD BE PLUGGED. WHEN THE DRAINS ARE PLUGGED THE BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER. WHERE HYDRANT DRAINS ARE NOT PLUGGED, A GRAVEL POCKET OR DRY WELL
- SHALL BE PROVIDED UNLESS THE NATURAL SOILS WILL PROVIDE ADEQUATE DRAINAGE HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10 FEET OF
- SANITARY SEWERS, STORM SEWERS, OR STORM DRAINS. HYDRANT DRAINS, WHERE ALLOWED, MUST BE ABOVE THE SEASONAL GROUNDWATER
- 7. CONTRACTOR TO PURCHASE HYDRANTS FROM WESTCHESTER JOINT WATER WORKS.

HYDRANT SETTING - WESTCHESTER JOINT WATER WORKS STA. A0+00 TO STA. A63+45 AND STA. B0+00 TO B26+23



PIPE CROSSING NOTES:

- WATER MAINS CROSSING SEWER OR DRAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE SEWER OR DRAIN, AND THE OUTSIDE OF THE WATER MAIN. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER OR DRAIN AS POSSIBLE. CLEARANCES SHALL BE MAINTAINED FOR SANITARY SEWERS, STORM DRAINS,
- 2. THE WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN THE OUTSIDE OF THE SEWER OR DRAIN, AND THE OUTSIDE OF THE WATER
- 3. THE ENGINEER MUST SPECIFICALLY APPROVE ANY VARIATIONS FROM THE MINIMUM WATER/SEWER OR DRAIN, VERTICAL AND HORIZONTAL SEPARATION REQUIREMENTS.

IRRIGATION PIPES, STEAM LINES AND OIL STATIC LINES.

- 4. ALL JOINTS WHERE FITTINGS ARE USED SHALL BE RESTRAINED. USE 4-3/4" DIA. TIE
- 5. UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS OR SPECIFIED, WATER MAINS SHALL BE INSTALLED TO SUCH A DEPTH TO GIVE A MINIMUM OF 4'-0" OF COVER ON THE
- 6. CONTRACTOR SHALL UTILIZE TYPICAL PIPE CROSSING DETAIL OR THE WATER MAIN OFFSET AT PIPE CROSSING DETAIL AS DIRECTED BY THE ENGINEER

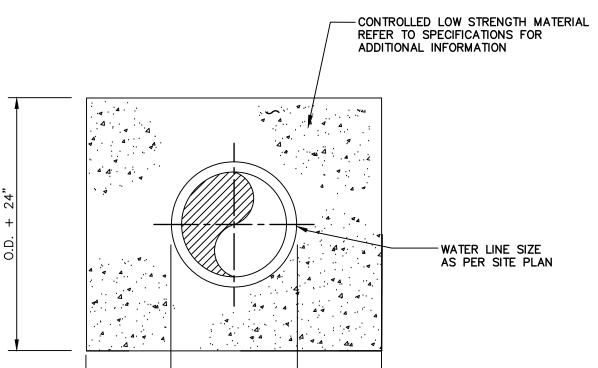
YPICAL PIPE CROSSING

RODS FOR EACH JOINT.

ADDITIONAL INFORMATION AS PER SITE PLAN

- ENCASEMENT DETAIL. SHOULD INSTALLATION NOT MEET WITH VERTICAL AND/OR HORIZONTAL SEPARATION REQUIREMENTS AS PER WATER/SEWER SEPARATION DETAIL.
- 2. IF THE MINIMUM RESTRICTIVE DISTANCES BETWEEN WATER MAINS AND STORM AND SANITARY SEWERS CAN NOT BE MAINTAINED, PROVIDE ENCASEMENT AS ORDERED BY ENGINEER.

WATER MAIN ENCASEMENT



1-1/2" OPERATING NUT -

250 HYDRANT

NOZZLE Ø

- EDGE OF

PAVEMENT

-6" VALVE AND

LOCATED AS

DIRECTED

VALVE AND HYDRANT.

- FOSTER ADAPTER

- BLOCK

RODDING BETWEEN

SEE NOTE 3.

WATER

MAIN —

·LIMITS OF 1-½" STONE FOR DRAINAGE

LATERAL -

PUMPER OUTLET SHALL FACE STREET. HOSE OUTLETS SHALL BE PARALLEL TO STREET.

BITUMASTIC PAINT. RODDING MAY BE OMITTED BETWEEN THE MAIN AND LATERAL VALVE

TRENCH, BUT AT LEAST 6" BELOW THE BASE OF THE HYDRANT TO 6" ABOVE THE WASTE

RODDING SHALL CONSIST OF TWO 3/4" THREADED RODS CAREFULLY COATED WITH

4. 1-1/2" STONE SHALL BE PLACED AROUND THE HYDRANT FROM THE BOTTOM OF THE

5. HYDRANTS WITH PLUGGED DRAINS SHALL HAVE A 3" BLACK CIRCLE PAINTED DIRECTLY

HYDRANT DRAINS SHOULD BE PLUGGED. WHEN THE DRAINS ARE PLUGGED THE

WHERE HYDRANT DRAINS ARE NOT PLUGGED, A GRAVEL POCKET OR DRY WELL

BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER.

SHALL BE PROVIDED UNLESS THE NATURAL SOILS WILL PROVIDE ADEQUATE

6.C. HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10 FEET OF

HYDRANT SETTING - TOWN OF NORTH CASTLE

STA. B26+23 TO B40+08 AND C0+00 TO C10+61

HYDRANT DRAINS, WHERE ALLOWED, MUST BE ABOVE THE SEASONAL GROUNDWATER

ONLY WHERE A TAPPING VALVE OR HYDRANT VALVE ANCHORING TEE IS USED.

PLUMBNESS OF HYDRANT TO BE CHECKED IN TWO DIRECTIONS, 90° APART.

OPENING AND TO A DISTANCE OF 12" AROUND THE ELBOW.

SANITARY SEWERS, STORM SEWERS, OR STORM DRAINS.

7. COLOR SHALL BE YELLOW BODY WITH WHITE CAP.

UNDER THE PUMPER OUTLET.

6. HYDRANT DRAINAGE:

DRAINAGE.

NOT TO SCALE

SEE NOTE 4

VALVE BOX TO BE

 $(2)-2\frac{1}{2}$

 $(1)-4\frac{1}{2}$

MUELLER CENTURION

TO TOWN OF NORTH

GRADE

WHEN DIRECTED, DRAIN HOLES

TO BE PLUGGED IN AREAS OF

HIGH GROUND WATER.

SEE NOTES 5 & 6 —

2 LAYERS OF TARPAPER

OVER 1-1/2" STONE —

3500 PSI CONCRETE

OR STONE ANCHORAGE

AGAINST UNDISTURBED

STONE, CONCRETE OR

CONCRETE BLOCK,

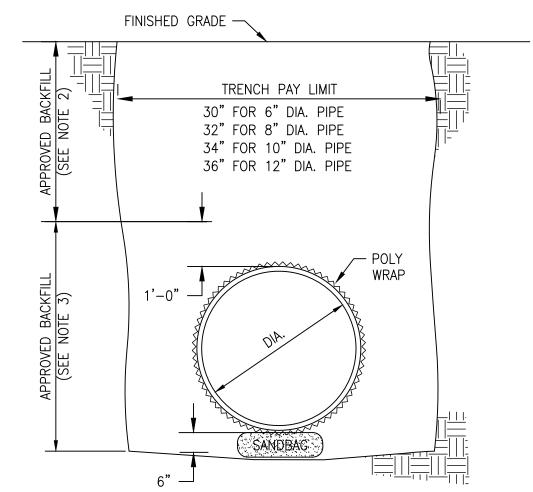
MINIMUM 6" THICK

AND 12" SQUARE -

EARTH —

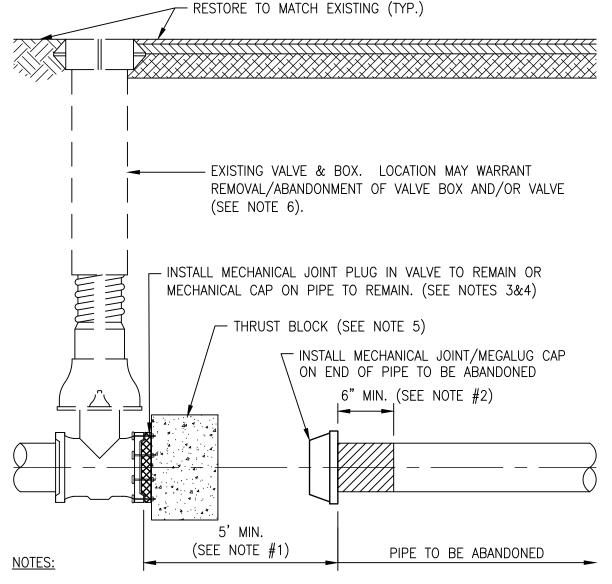
CASTLE SPECIFICATIONS

- 1. WATERMAIN SHALL BE ENCASED IN CONTROL LOW STRENGTH MATERIAL AS PER



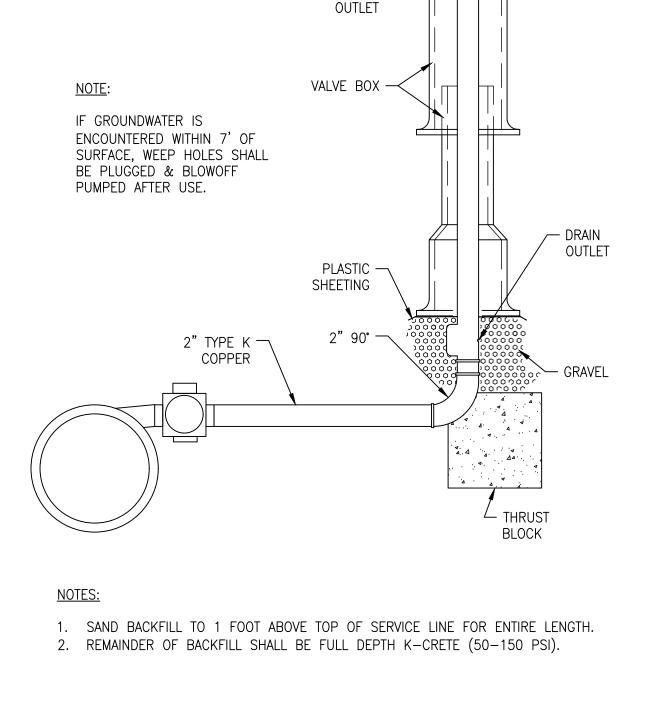
- 1. FULL DEPTH K-CRETE (50-150 PSI) SHALL BE INSTALLED BENEATH ROADWAYS OR WHERE OTHER SITE CONDITIONS WARRANT (AS DETERMINED BY ENGINEER). REFER TO PROFILE DRAWINGS FOR LOCATIONS.
- 2. FILL SHALL BE MATERIAL FREE FROM CINDERS, ASHES, REFUSE, VEGETABLE OR ORGANIC MATTER, BOULDERS, ROCKS AND STONES, ASPHALT, OR ANY OTHER MATERIAL DEEMED UNSUITABLE BY THE ENGINEER. STONES NOT GREATER THAN 8 INCHES IN THEIR GREATEST DIMENSION MAY BE USED, UNLESS OTHERWISE SPECIFIED BUT MAY NOT COMPRISE MORE THAN 1% BY VOLUME OF THE BACKFILL MATERIAL.
- 3. SAND BACKFILL TO 1 FOOT ABOVE TOP OF PIPE. FIELD CONDITION MAY WARRANT USE OF K-CRETE OR GRAVEL AS RECOMMENDED BY THE ENGINEER AND APPROVED BY WJWW AND TOWN OF NORTH CASTLE.
- 4. SANDBAGS SHALL BE INSTALLED EVERY 10 FEET BELOW BASE OF PIPE. WHERE THE BOTTOM OF TRENCH IS ROCK, PLACE 6 INCHES OF GRAVEL DOWN PRIOR TO LAYING PIPE ON SANDBAGS.





- 1. CUT BACK PIPE TO BE ABANDONED A MINIMUM OF 5' FROM EXISTING PIPE/APPURTENANCES TO REMAIN.
- 2. END OF ABANDONED PIPE(S) SHALL BE CAPPED WITH MECHANICAL JOINT/MEGALUG CAP UNLESS OTHERWISE APPROVED BY WJWW. WHERE APPROVED BY WJWW, SEAL END OF PIPE WITH MIN. 3500 PSI CONCRETE OR PLUG WITH BRICKS AND NON-SHRINK GROUT.
- 3. WHEN PIPE TO BE ABANDONED IS ABUTTING EXISTING PIPE TO REMAIN, INSTALL MJ/MEGALUG CAP ON EXISTING PIPE TO REMAIN.
- 4. WHEN PIPE TO BE ABANDONED IS ABUTTING AN EXISTING VALVE OR MECHANICAL JOINT TO REMAIN, THE VALVE/MECHANICAL JOINT SHALL BE PLUGGED.
- 5. THRUST BLOCK AGAINST VALVE/TEE/PIPE TO REMAIN IN ACCORDANCE WITH STANDARD DETAIL #1, ON DRAWING C-17.
- 6. EACH PIPE ABANDONMENT LOCATION SHALL BE INDIVIDUALLY REVIEWED AND APPROVED BY WJWW TO DETERMINE APPROPRIATE COURSE OF ACTION PRIOR TO CONTRACTOR PERFORMING THE WORK.

PIPE ABANDONMENT



NOZZLE

2" NPS

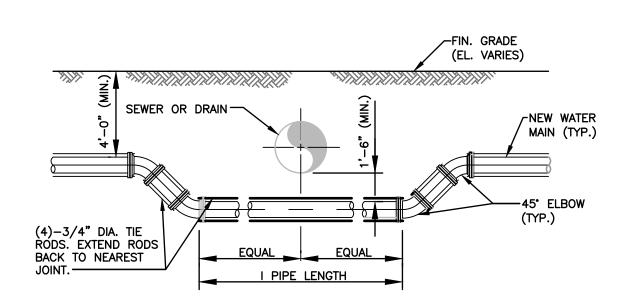
BRASS NOZZLE

CAP

- OPERATING



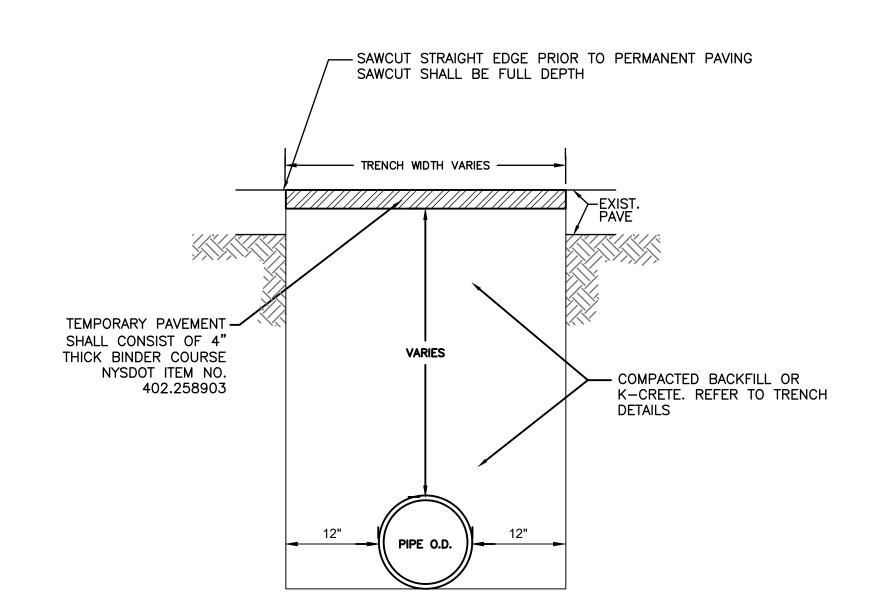
GRADE



TYPICAL SECTION

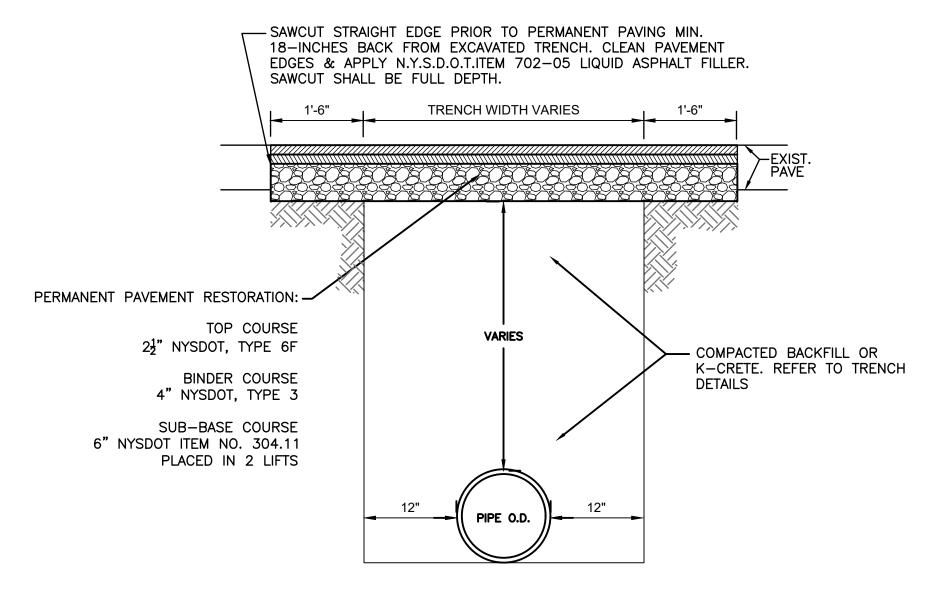
WATER MAIN OFFSET AT PIPE CROSSING

CONSULTANT SEAL WESTCHESTER COUNTY, NEW YORK UNAUTHORIZED ALTERATION OR RECORD DRAWING CERTIFICATION NUMBER ADDITION TO THIS DOCUMENT IS A D&B ENGINEERS AND ARCHITECTS DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION 22-522 C-18 VIOLATION OF SECTION 7209 OF THE AS BUILT - CHANGES AS NOTED NEW YORK STATE EDUCATION LAW. AS BUILT - NO CHANGES DIVISION OF ENGINEERING SHEET NO. 22 OF 61 WHITE PLAINS, NEW YORK 10604 CONTRACTOR PROJECT COORDINATOR SCALE: **AS SHOWN** 'N CHARGE OF WDM DOMESTIC WATER SYSTEM IMPROVEMENTS. WESTCHESTER COUNTY AIRPORT (914) 467-5300 DATE: **12/09/2022** TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK NAME NAME CHECKED BY ___ALG_ SIGNATURE **SIGNATURE** MADE BY _____JG REVISION | DATE WATER LINE DETAILS NO. 2 48-17-C-147 **REVISION** TITLE NUMBER BY BY DATE DATE



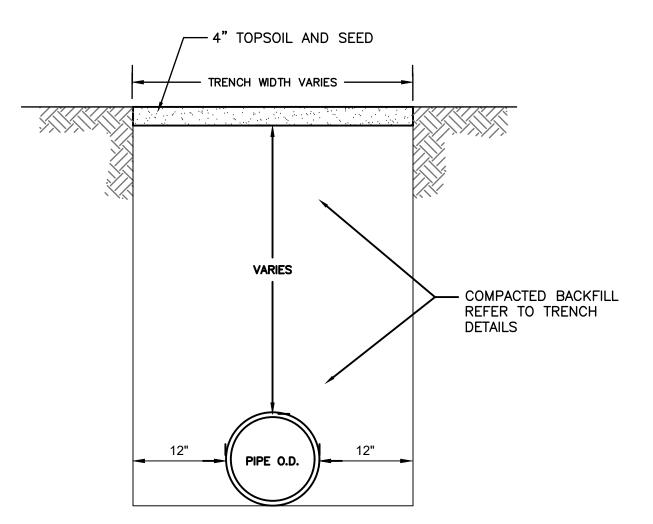
- 1. WHERE PAVEMENT HAS NOT BEEN RESTORED, TRENCH SHALL BE 100% PLATED DURING NON-WORKING HOURS.
- 2. IF ADJACENT PAVEMENT WITHIN CLOSE PROXIMITY OF TRENCH EXCAVATION SHOWS STRUCTURAL FATIGUE, ADDITIONAL PAVE. RESTORATION SHALL BE REQUIRED AT THE DISCRETION OF THE
- ENGINEER. 3. TRAFFIC SHALL BE CONTROLLED AT ALL TIMES BY MEANS OF SIGNS, FLAGMEN, CONES, BARRICADES, ETC., AS PER THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.





- 1. WHERE PAVEMENT HAS NOT BEEN RESTORED, TRENCH SHALL BE 100% PLATED DURING NON-WORKING HOURS.
- 2. IF ADJACENT PAVEMENT WITHIN CLOSE PROXIMITY OF TRENCH EXCAVATION SHOWS STRUCTURAL FATIGUE, ADDITIONAL PAVE. RESTORATION SHALL BE REQUIRED AT THE DISCRETION OF THE
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FINAL RESTORATION IN LANDSCAPED AREA

SHEET NUMBER

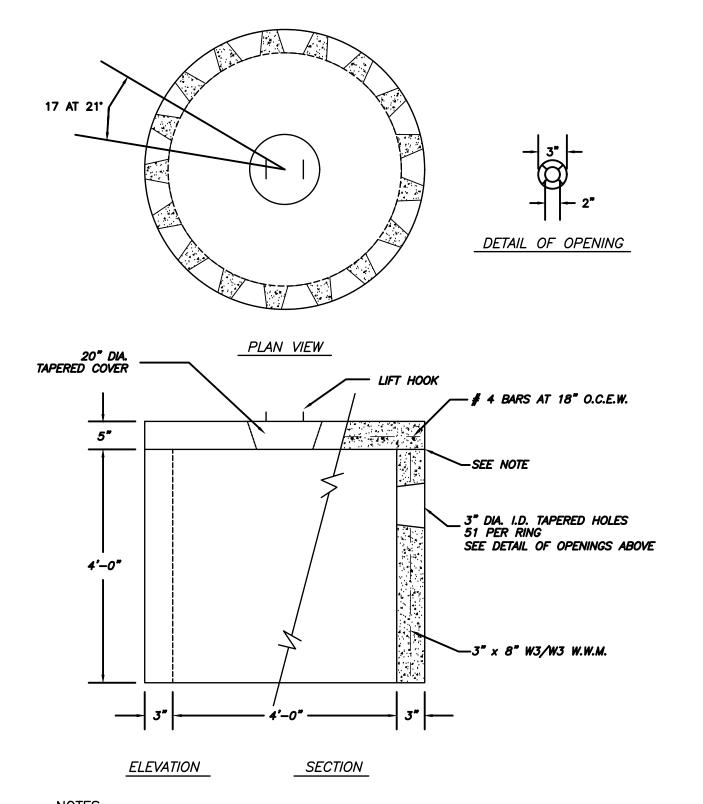
C-19

SHEET NO. 23 OF 61

SCALE: AS SHOWN

48-17-C-148

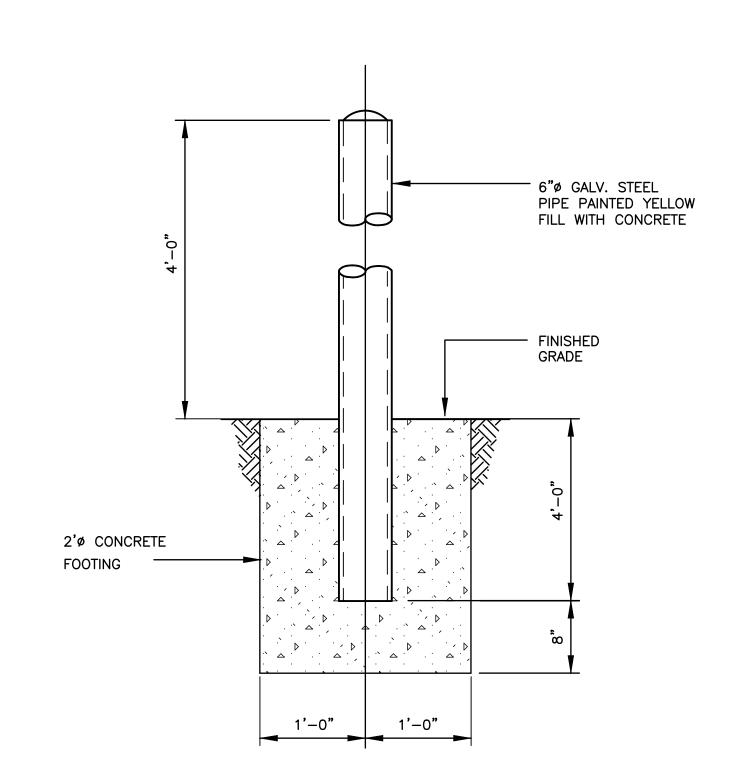
DATE: 12/09/2022



NOTES:

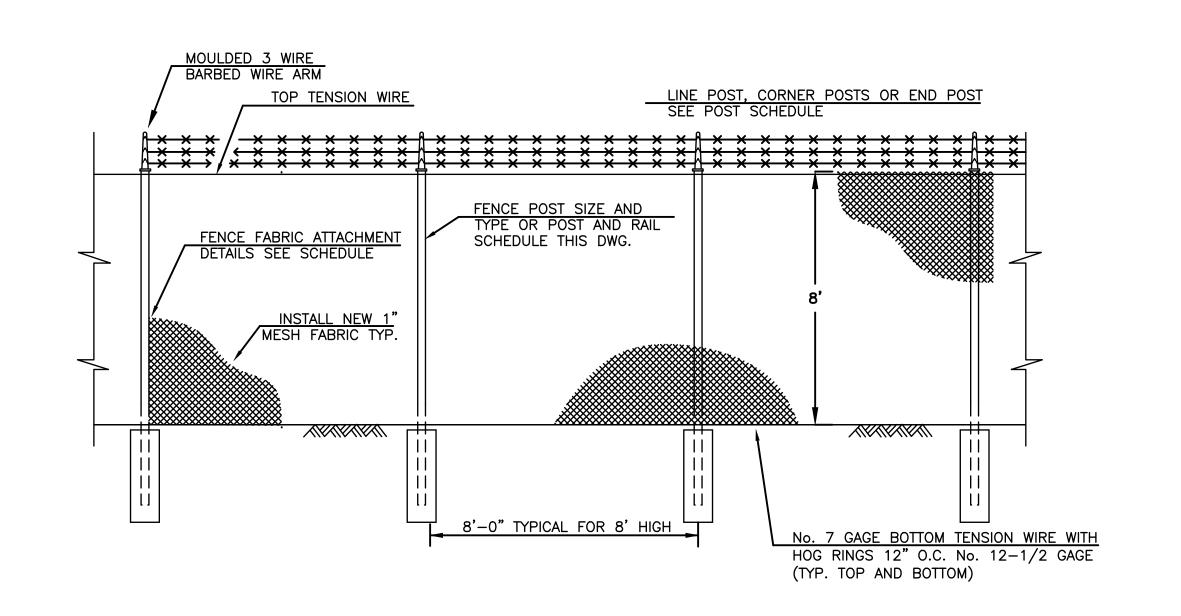
- CONCRETE TO TEST 4000 PSI @ 28 DAYS. WELDED WIRE MESH ASTM-A-185. 3. 376 GALLON CAPACITY PER RING.
- 4. MANUFACTURED BY PRECAST CONCRETE SALES, VALLEY COTTAGE, NY, OR APPROVED EQUAL

CONSULTANT SEAL



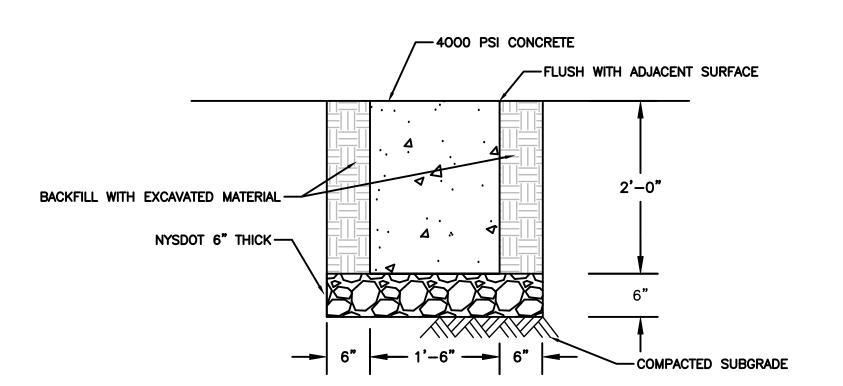


UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A					_	RECORD DRAWIN	G CERTIFICATION	WESTCHESTER COUNTY, NEW YORK	CONTRACT NUMBER
VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.	+				AS BUILT - CHA			DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	
					AS BUILT - NO	CHANGES		DIVISION OF ENGINEERING	SHEET NO. 23
IN CHARGE OF WDM					CONTRA	CTOR	PROJECT COORDINATOR	DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT	SCALE: AS SH
CHECKED BY ALG					NAME	_	NAME	TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK	DATE: 12/09,
MADE BYJG	REVISION DATE	MADE BY	APP'D BY	REVISION	SIGNATURE	DATE	SIGNATURE DATE	SITE DETAILS NO. 1	48-17-C-1



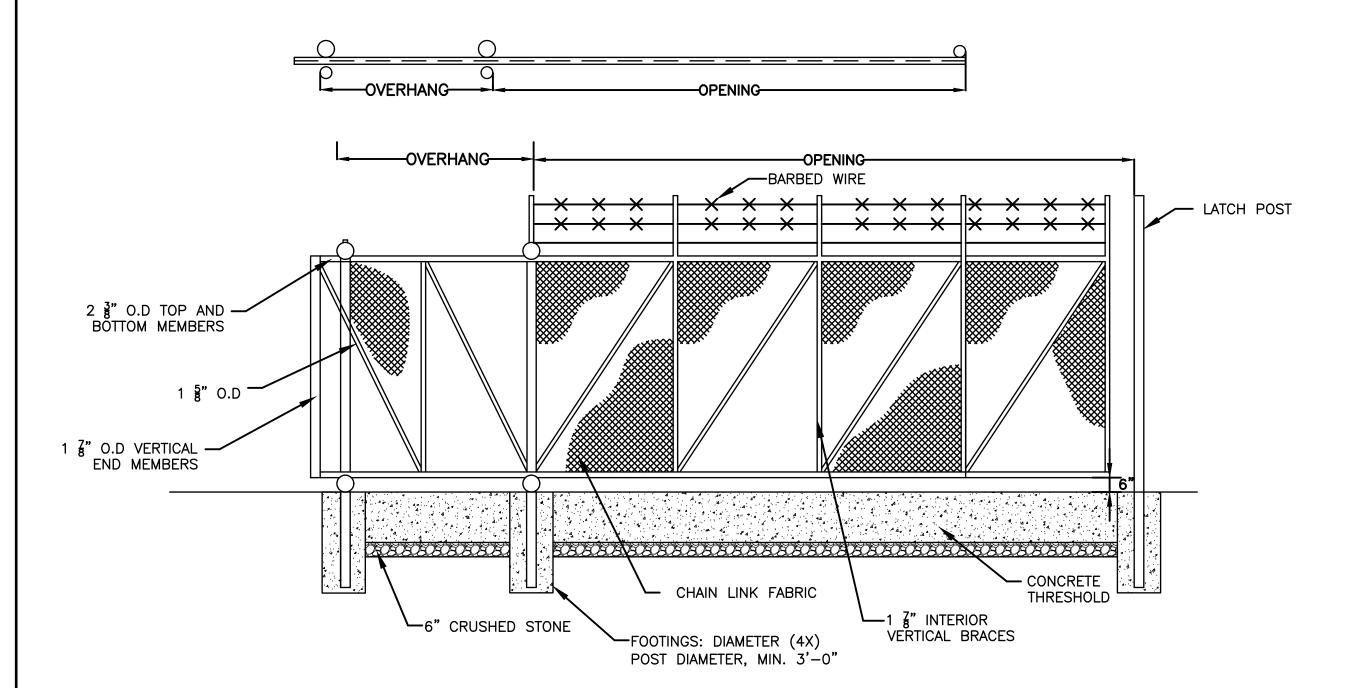
TYPICAL CHAIN LINK FENCE

NOT TO SCALE



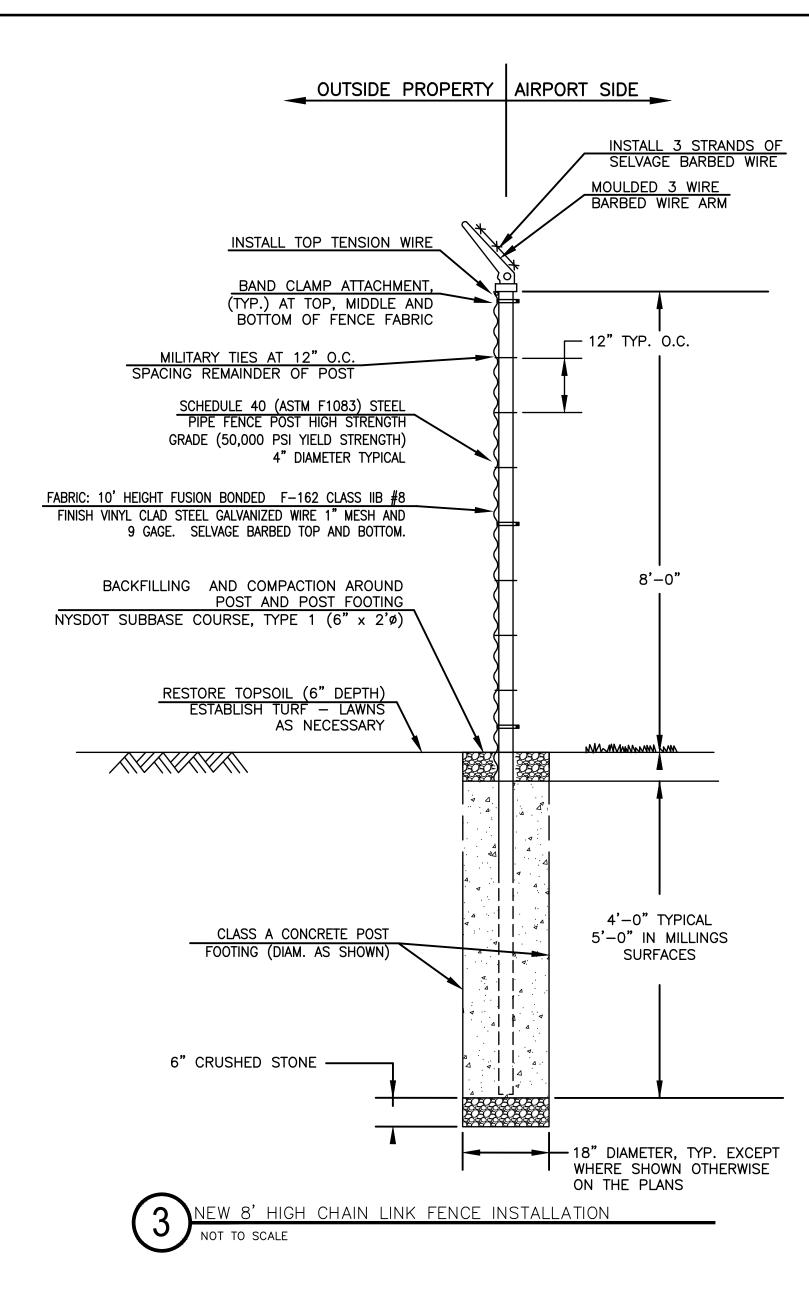
CONCRETE THRESHOLD AT GATES

NOT TO SCALE



NOTES:

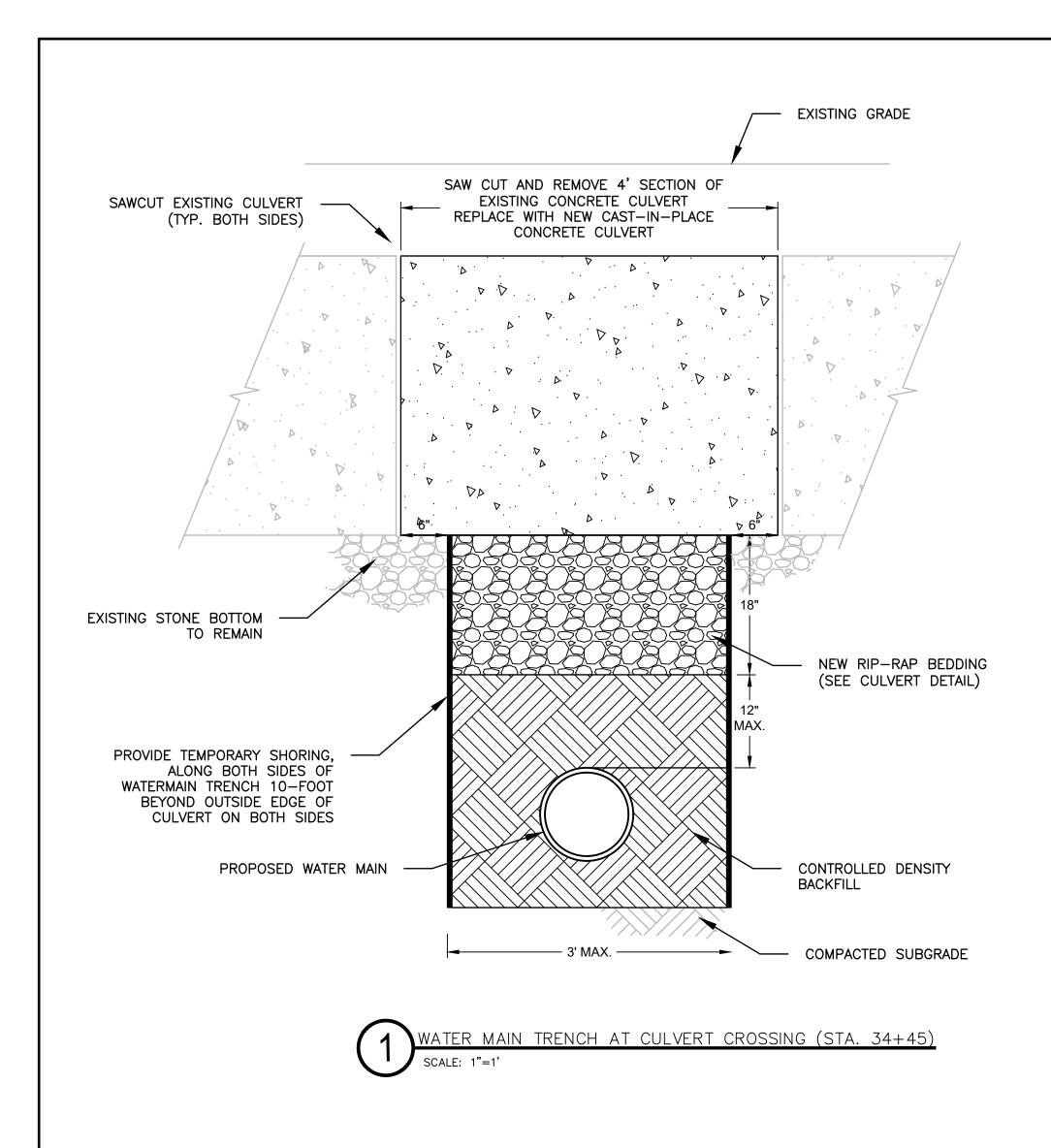
- 1. COLUMN LINE POSTS SHALL BE AS SHOWN IN THE SPECIFICATIONS.
- 2. NO USED, REROLLED, OR OPEN SEAMED TUBING MAY BE USED.
- 3. POSTS, INCLUDING ENCASEMENT, SHALL BE SET INSIDE THE R.O.W. LINE SO THAT FENCING PLACED UPON THE R.O.W. LINE SIDE OF POSTS WILL BE AS NEARLY ON THE R.O.W. LINE AS POSSIBLE. WHEN DIRECTED BY THE ENGINEER THE FABRIC MAY BE PLACED ON THE OPPOSITE SIDE IN ORDER FOR FABRIC TO BE PULLED TIGHT AGAINST THE POST.
- 4. POSTS IN ROCK WHERE SUBSTANTIAL ROCK IS ENCOUNTERED A HOLE ONE (1) INCH LARGER IN DIAMETER THAN THE POST, AND 18" MINIMUM DEPTH FOR LINE POSTS, 24" MINIMUM DEPTH FOR TERMINAL POSTS SHALL BE MADE. AFTER INSERTING THE POSTS, THE HOLES SHALL BE BACKFILLED WITH A HANDMIXED 1:2 MORTAR CONSISTING OF ONE PART PORTLAND CEMENT, TWO PARTS FINE AGGREGATE MIXED TO A PLASTIC CONSISTENCY SHOWING NO SIGNS OF FREE WATER. THE HAND MIXING AND CONSOLIDATION OF THE MORTAR SHALL BE PERFORMED IN A MANNER APPROVED BY THE ENGINEER.
- 5. CORNER POSTS SHALL BE USED AT SHARP BREAKS IN VERTICAL GRADE, AND CHANGES IN HORIZONTAL ALIGNMENT OF 15° AND OVER. PULL POSTS SHALL BE USED EVERY 500' ON STRAIGHT RUNS OF CHAIN LINK FENCE, OR AS DIRECTED BY THE ENGINEER.
- 6. GATE FRAMES, BRACING AND FITTINGS SHALL BE OF A SATISFACTORY TYPE MADE BY APPROVED MANUFACTURERS AND ACCEPTED BY THE ENGINEER.
- 7. WHEN AN "APPROVED EQUAL" IS INDICATED ON THIS SHEET, IT SHALL BE BASED ON MOMENT OF INERTIA.
- 8. THE WEIGHT OF STEEL PIPE CALLED FOR ON THIS SHEET SHALL NOT VARY MORE THAN 5% OF THE INDICATED WEIGHT, AND STEEL SHAPES SHALL NOT VARY MORE THAN 2.5% OF THE INDICATED WEIGHT, BUT THEY MAY EXCEED SUCH INDICATED WEIGHT.
- 9. CONTRACTOR SHALL SEE MANUFACTURERS "ERECTION DETAILS" FOR ADDITIONAL FENCING DETAILS.
- 10. AN ALLOWANCE OF TEN (10) FEET WILL BE ADDED FOR EACH END POST, CORNER POST, AND PULL POST INSTALLED IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, STANDARD SHEETS, AND DIRECTIONS OF THE ENGINEER.

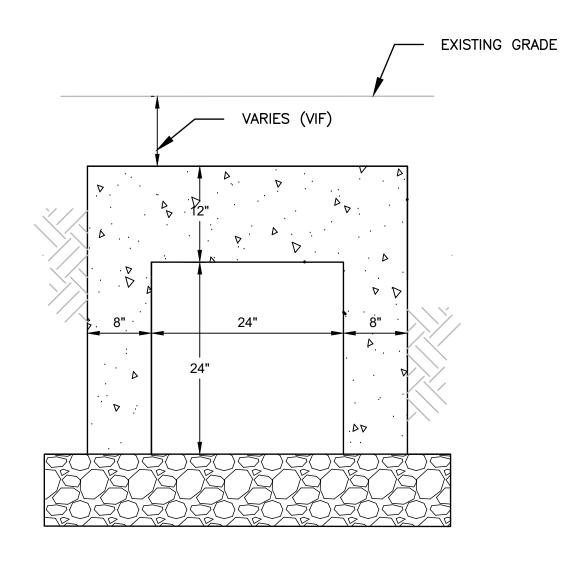


POST AND RAIL SCH	HEDULE		
USE AND SECTION	NOM. SIZE (INCHES)	O.D. SIZE (INCHES)	YEILD STRENGTH
END, CORNER AND INTERMEDIATE POSTS TUBE TYPE	5 9/16	5.563	30,000 PSI
LINE POSTS, TUBE TYPE	4	4.000	50,000 PSI
GATE POSTS FOR SINGLE LEAF GATES OF 6 FEET OR LESS	4 1/2	4.500	50,000 PSI
GATE POSTS FOR DOUBLE LEAF GATES WITH A SPAN OF 13 FEET TO 24 FEET	5 9/16	5.563	50,000 PSI
GATE FRAMES	VARIES BY S	IZE, SEE SPEC	PIFICATIONS
ADDITIONAL INFORMATION: TENSION WIRES TOP AND BOTTOM - 7 GAGE, COIL SP BARBED WIRE - 3 STRANDS, 12 1/2 GAGE WIRE WITH			i* 0

FABRIC TOP AND BOTTOM SELVAGE TO BE TWISTED AND BARBED

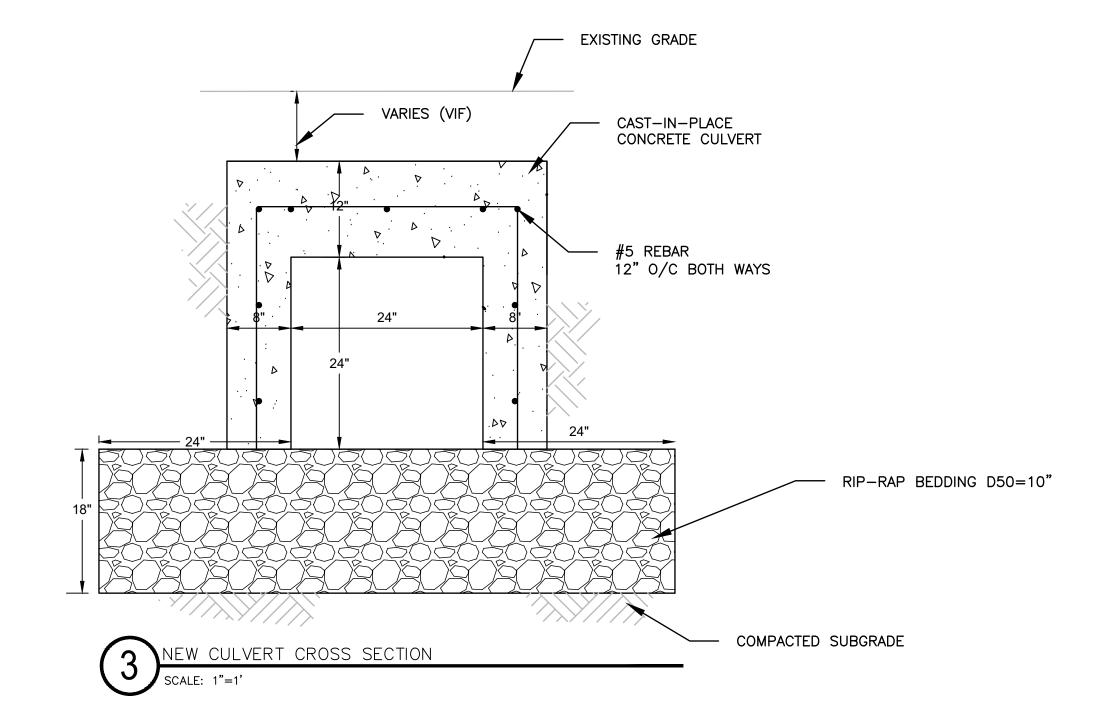
SHEET NUMBER CONSULTANT SEAL WESTCHESTER COUNTY, NEW YORK UNAUTHORIZED ALTERATION OR RECORD DRAWING CERTIFICATION ADDITION TO THIS DOCUMENT IS A D&B ENGINEERS AND ARCHITECTS DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION 22-522 C-20 AS BUILT - CHANGES AS NOTED VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. SHEET NO. 24 OF 61 AS BUILT - NO CHANGES DIVISION OF ENGINEERING WHITE PLAINS, NEW YORK 10604 CONTRACTOR PROJECT COORDINATOR IN CHARGE OF WDM SCALE: AS SHOWN DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT (914) 467-5300 DATE: 12/09/2022 TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK NAME NAME CHECKED BY ALG DPW FILE NO. SIGNATURE REVISION DATE MADE APP'D MADE BY _____JG 48-17-C-149 REVISION SITE DETAILS NO. 2 NUMBER BY BY ___ DATE ___ DATE ___





EXISTING CULVERT CROSS SECTION (V.I.F)

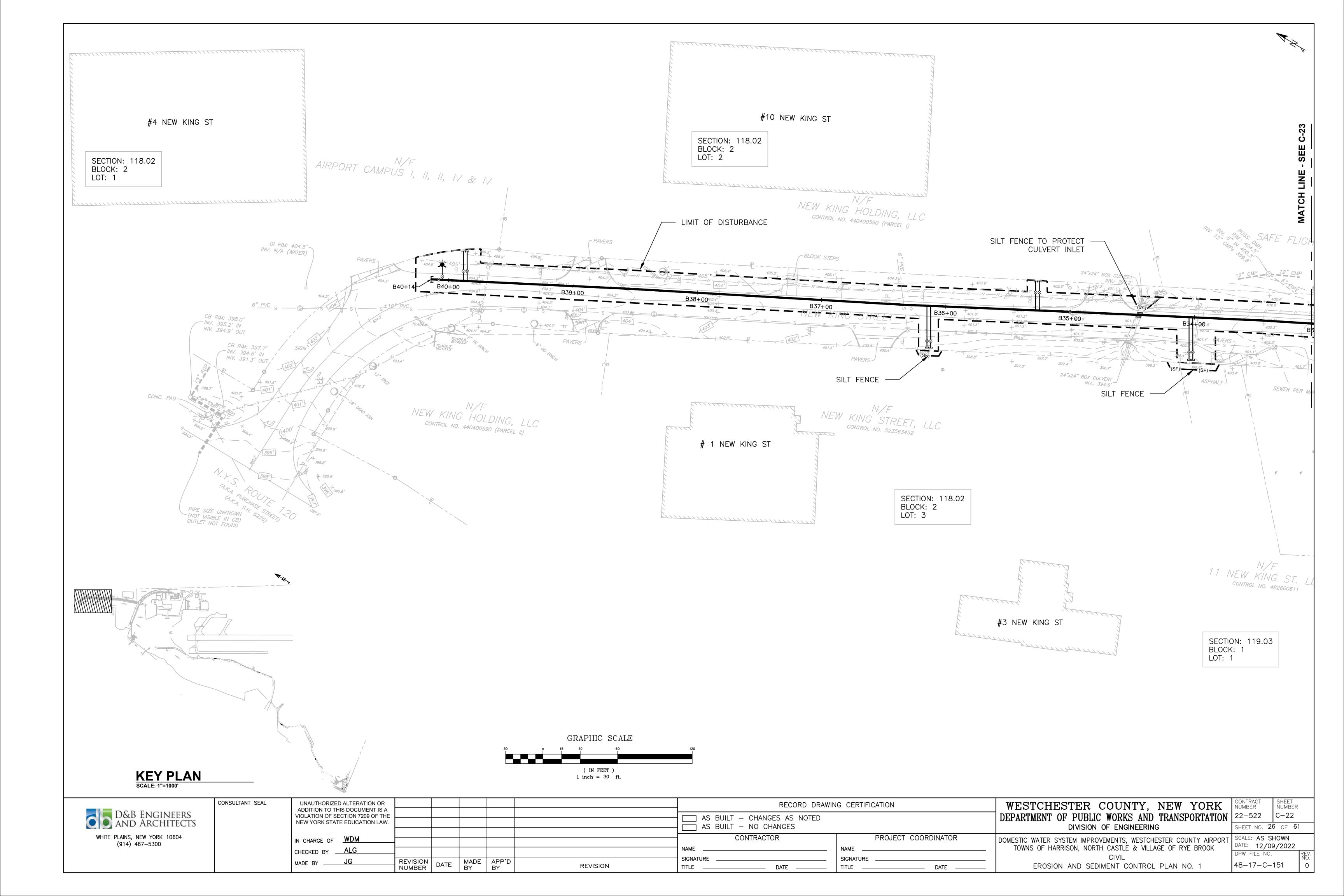
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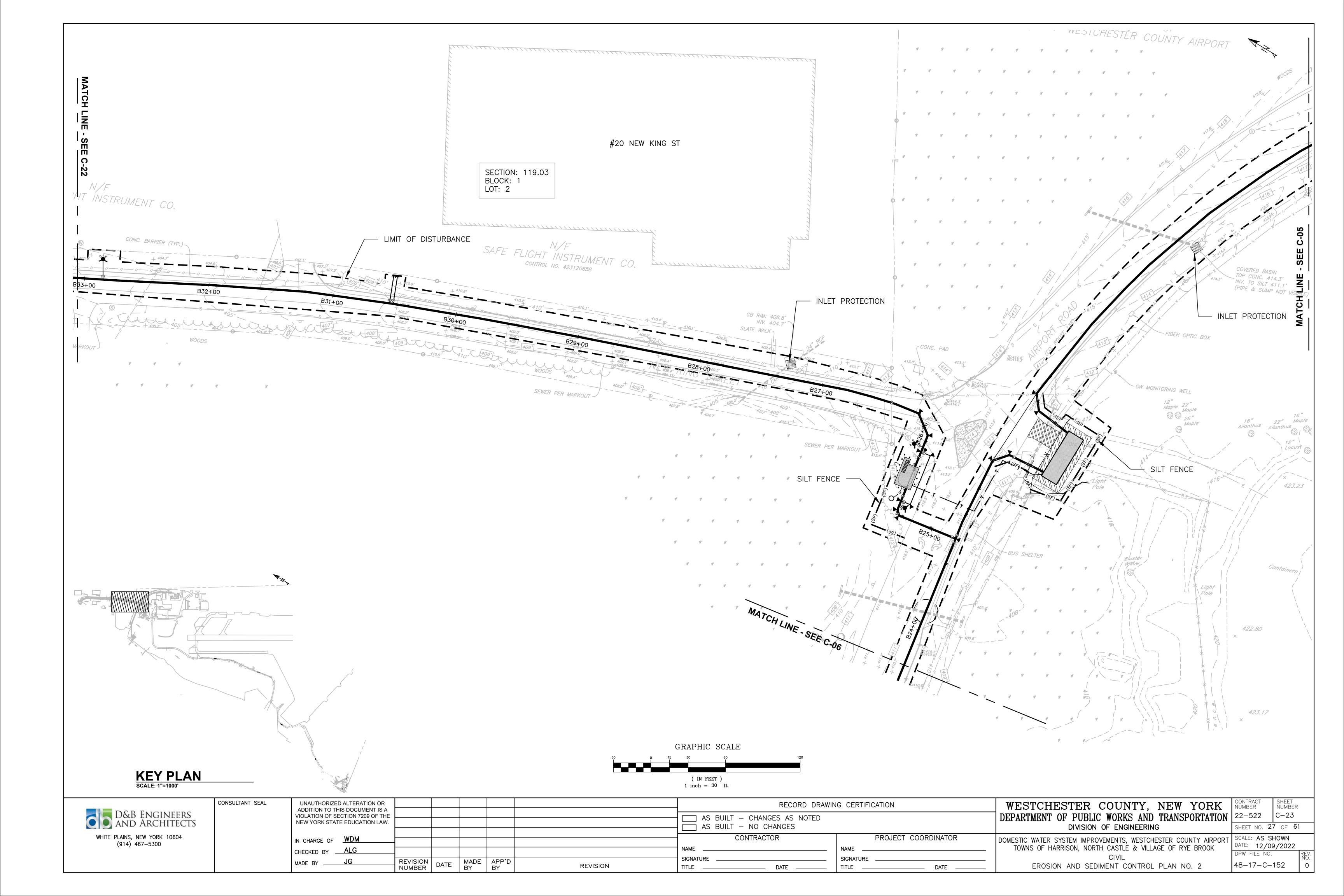


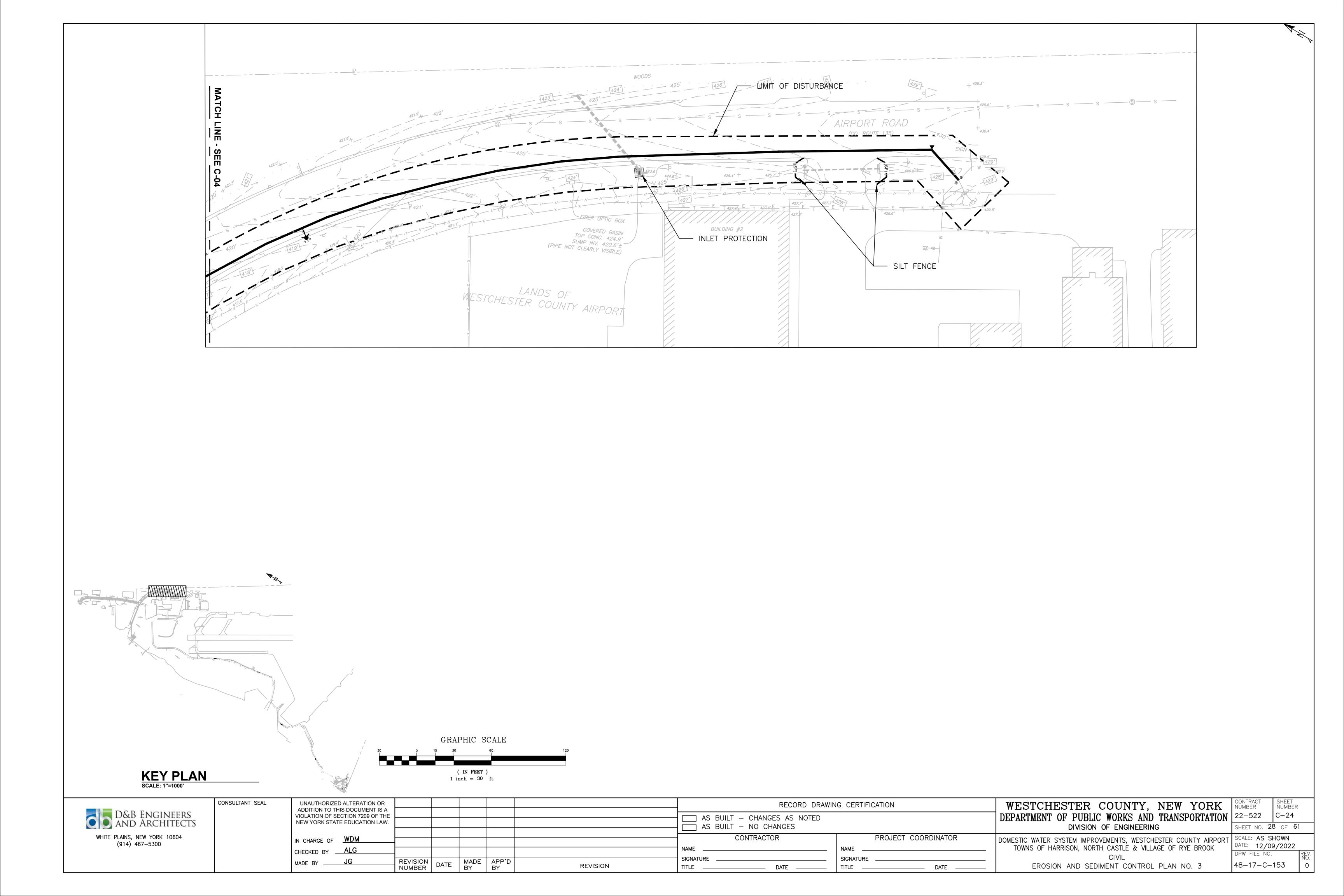
CULVERT CROSSING NOTES:

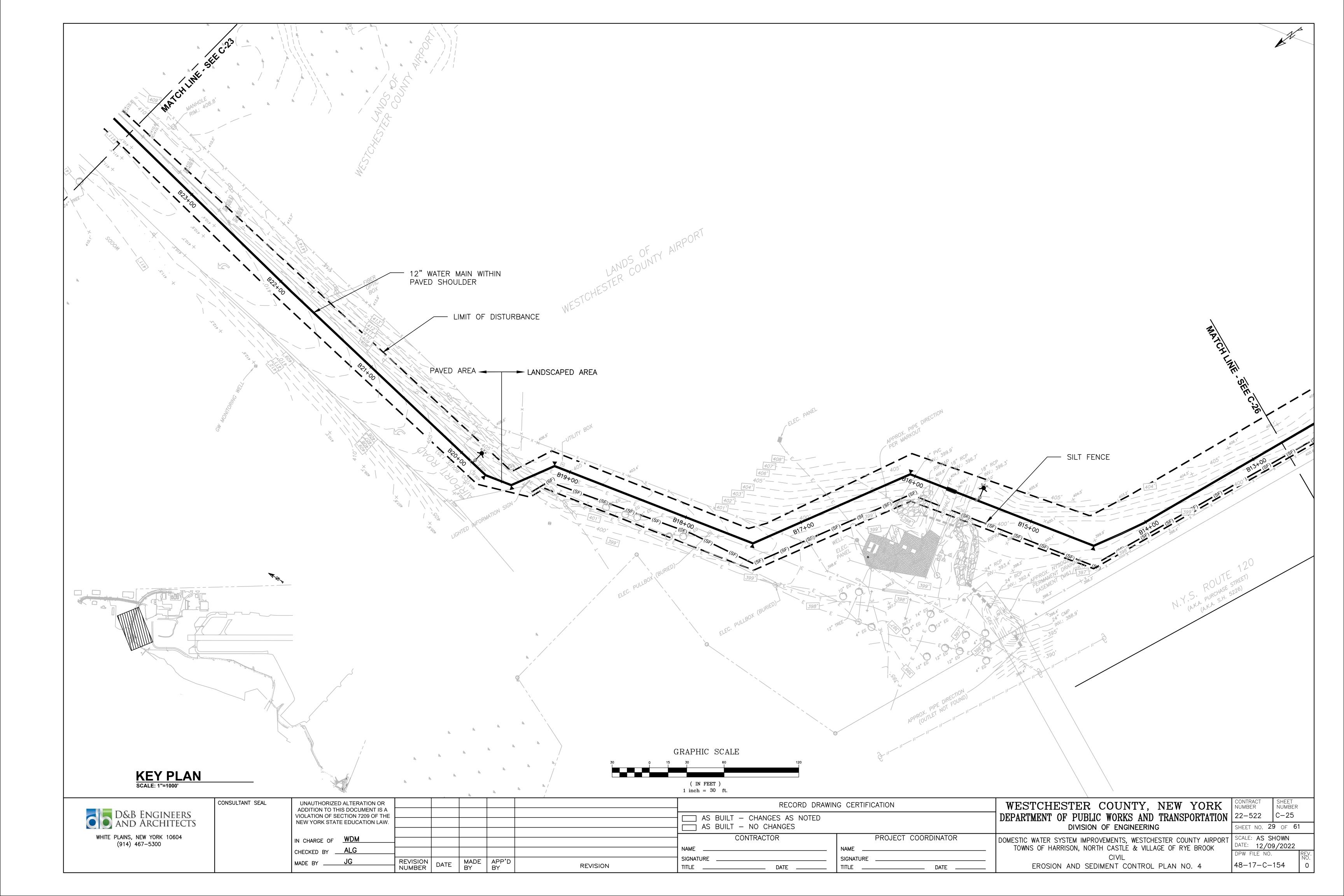
- NO DISTURBANCE TO THE WATERWAY UPSTREAM OR DOWNSTREAM OF THE CULVERT OR WITHIN WETLAND OR WETLAND ADJACENT AREAS WILL BE PERMITTED, INCLUDING STOCKPILING OF SOIL AND STORAGE OF MATERIALS.
- 2. CONTRACTOR SHALL UTILIZE SAND BAGS OR OTHER TEMPORARY DAM MATERIAL ALONG WITH A PUMP TO MAINTAIN STREAM FLOW DURING REPAIR OF THE CULVERT. A FILTER SOCK SOCK SHALL BE USED ON THE DISCHARGE END OF THE PUMP HOSE TO TRAP SEDIMENT.
- 3. THE CONTRACTOR SHALL CONFORM TO ALL OF THE CONDITIONS, RULES & REQUIREMENTS OF THE U.S. ARMY CORPS OF ENGINEERS, NATIONWIDE PERMIT #18 FOR CONSTRUCTION ACTIVITIES RELATED TO THE DISTURBANCE AND REPAIR OF THE DRAINAGE CULVERT OF STATION 34+45.
- 4. THE CONTRACTOR SHALL SUBMIT A PROPER TEMPORARY FLOW DIVERSION AND DEWATERING PLAN FOR THE REPLACEMENT OF THE NEW KING STREET CULVERT.
- 5. THE CULVERT REPLACEMENT WORK MUST ONLY BE PERFORMED UNDER LOW FLOW CONDITIONS.

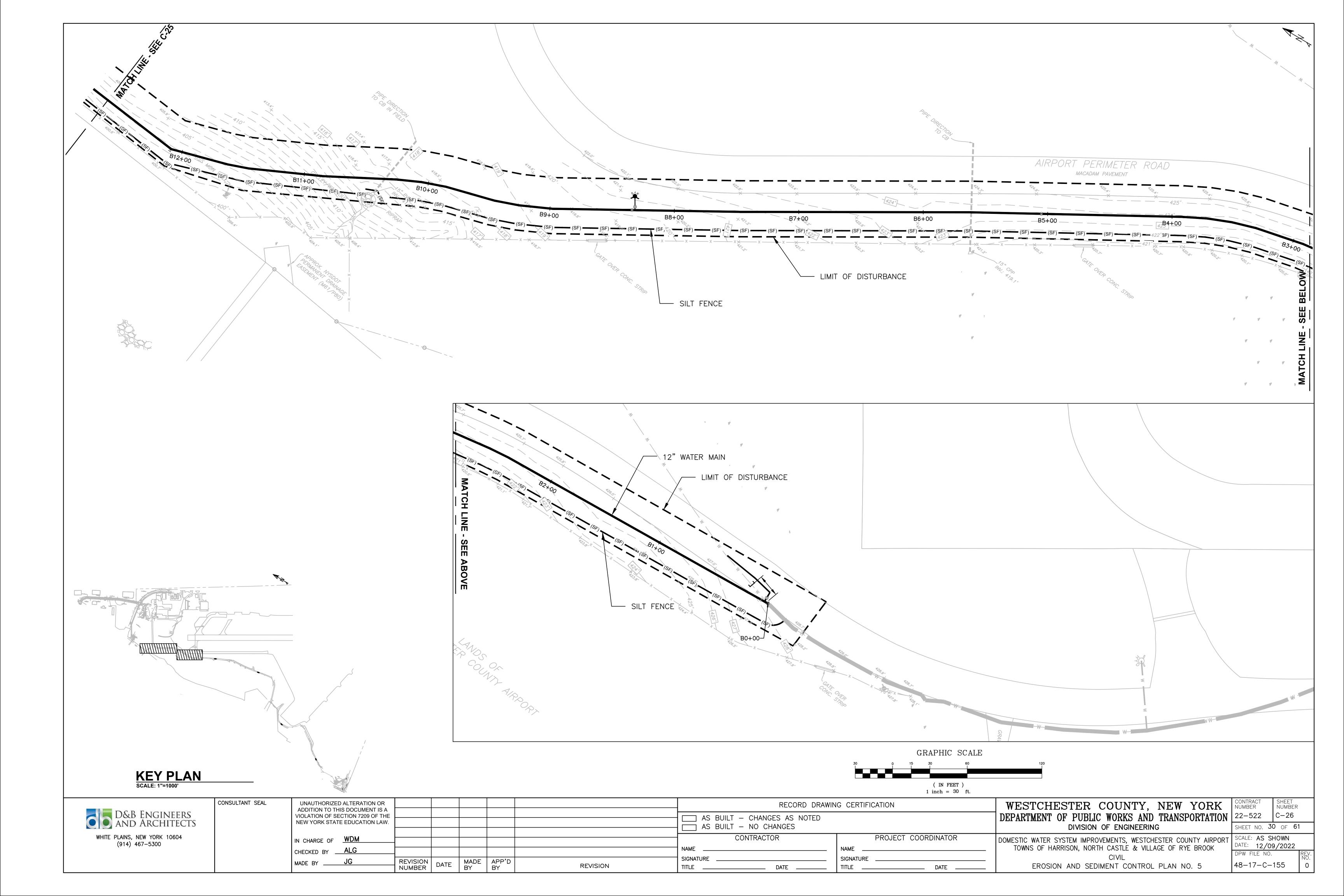
	CONSULTANT SEAL	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A	RECORD DRAWING	CERTIFICATION	WESTCHESTER COUNTY, NEW YORK	CONTRACT SHEET NUMBER NUMBER
D&B ENGINEERS AND ARCHITECTS		VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.	AS BUILT — CHANGES AS NOTED AS BUILT — NO CHANGES		DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING	22-522
WHITE PLAINS, NEW YORK 10604 (914) 467-5300		IN CHARGE OF WDM CHECKED BY ALG MADE BY JG REVISION NUMBER DATE BY BY REVISION REVISION	CONTRACTOR NAME NA SIGNATURE SIGNATURE TITLE DATE TITLE	PROJECT COORDINATOR AME IGNATURE ITLE DATE	DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK CIVIL SITE DETAILS NO. 3	SCALE: AS SHOWN DATE: 12/09/2022 DPW FILE NO. REV NO. 48-17-C-150 0

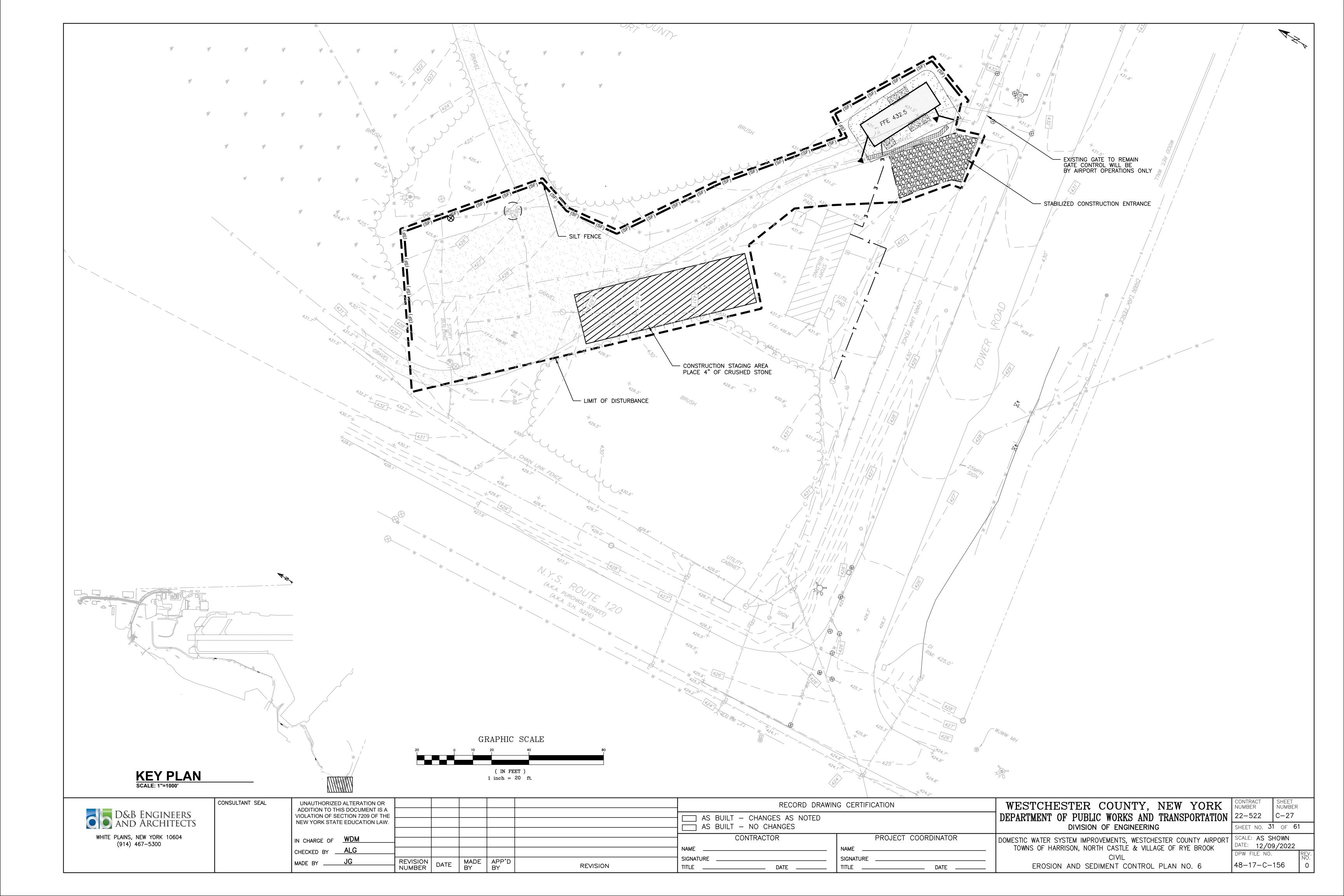


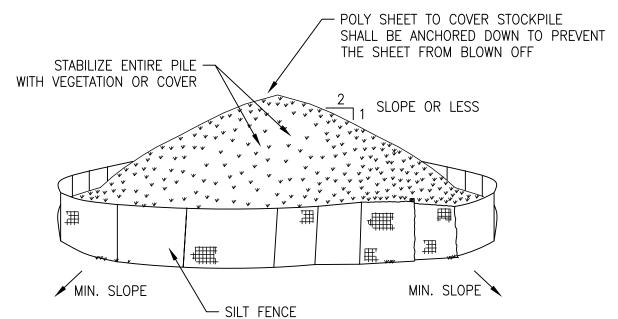












INSTALLATION NOTES:

- 1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
- 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
- 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.

10' MAXIMUM & TO &

FLOW

TOP VIEW OF JOINING AREAS

PERSPECTIVE DETAIL

SECTION A TT SECTION B

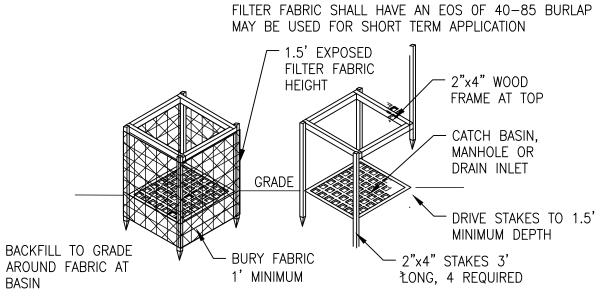
STAPLE -

LINEAR FOOT.

4. LOCATION CHOSEN TO BE APPROVED BY OWNER.



REPRODUCED FROM NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL



NOTES:

— 36"MINIMUM LENGTH FENCE

16" INTO THE GROUND

16" MINIMUM HEIGHT OF FILTER CLOTH

8" MINIMUM

DEPTH IN GROUND

36" MINIMUM FENCE -

POST LENGTH

FLOW

EMBED FILTER CLOTH A — MINIMUM OF 8" VERTICALLY ______ INTO THE GROUND

1. WHERE ENDS OF THE FILTER CLOTH COME TOGETHER, THEY SHALL BE

3. THE AREA BELOW THE FENCE MUST BE UNDISTURBED OR STABILIZED.

OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS.

2. ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE.

4. FENCE POSTS (FOR FABRIC UNITS): THE LENGTH SHALL BE A MINIMUM OF 36

INCHES LONG. WOOD POSTS 2 X 2 WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES WILL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS

WILL BE STANDARD T OR U SECTION WEIGHT NOT LESS THAN 1.00 POUND PER

FILTER CLOTH

POST, DRIVEN A MINIMUM OF

FENCE POST SECTION MINIMUM

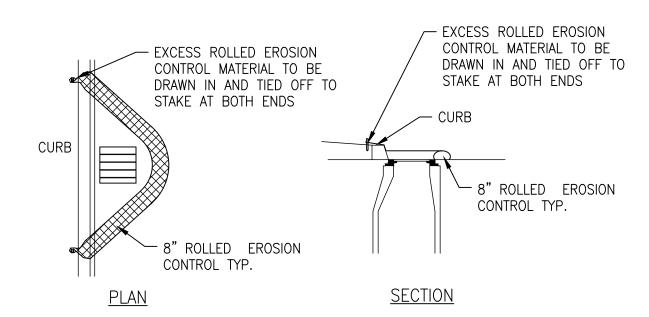
MINIMUM OF 16"

INTO THE GROUND

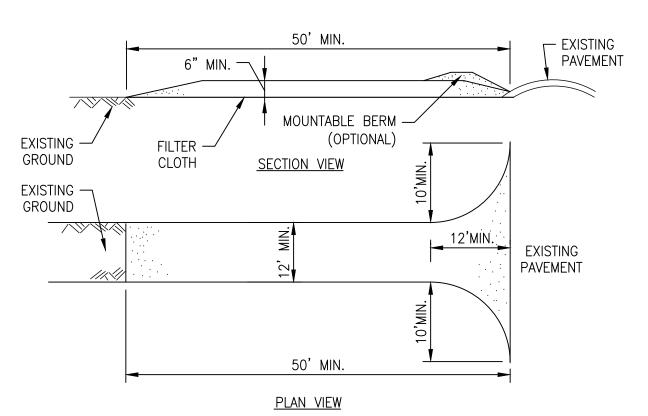
20" ABOVE GROUND.

- 1. GENERAL AREA AROUND INLET ± 6 ' FROM FILTER FABRIC MAY BE EXCAVATED TO 1' DEPTH AS WATER POOL SEDIMENT TRAP
- 2. SET SILT FENCE PROTECTION AROUND INLET FRAME OR AS CLOSE TO FRAME AS FEASIBLE FOR STABLE STAKING









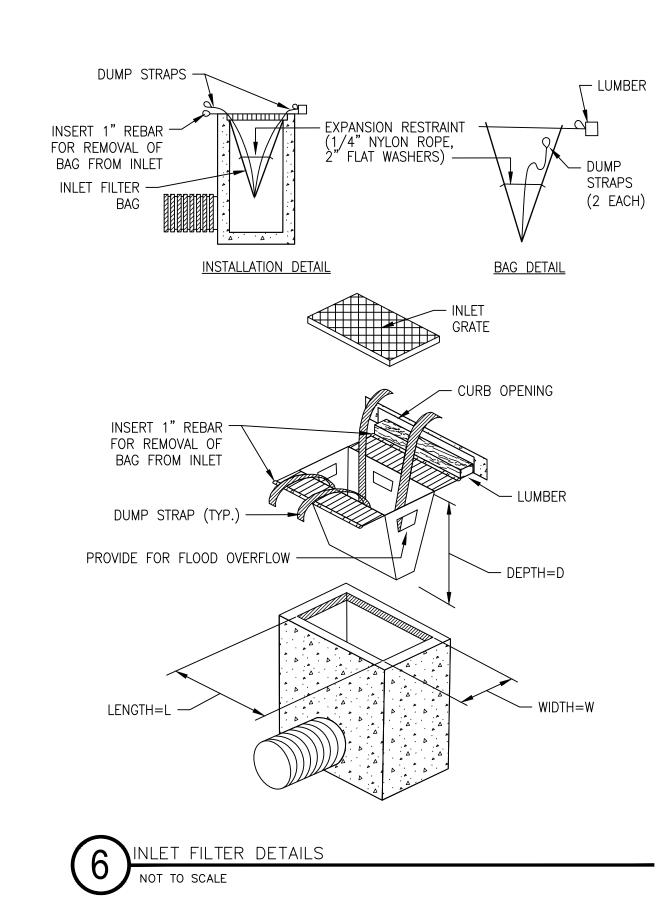
NOTES:

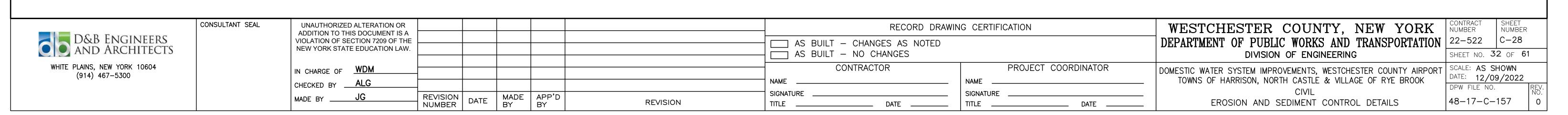
1. STONE SIZE — USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT, LENGTH — NOT LESS THAN 50 FEET AND THICKNESS — NOT LESS THAN SIX (6) INCHES.

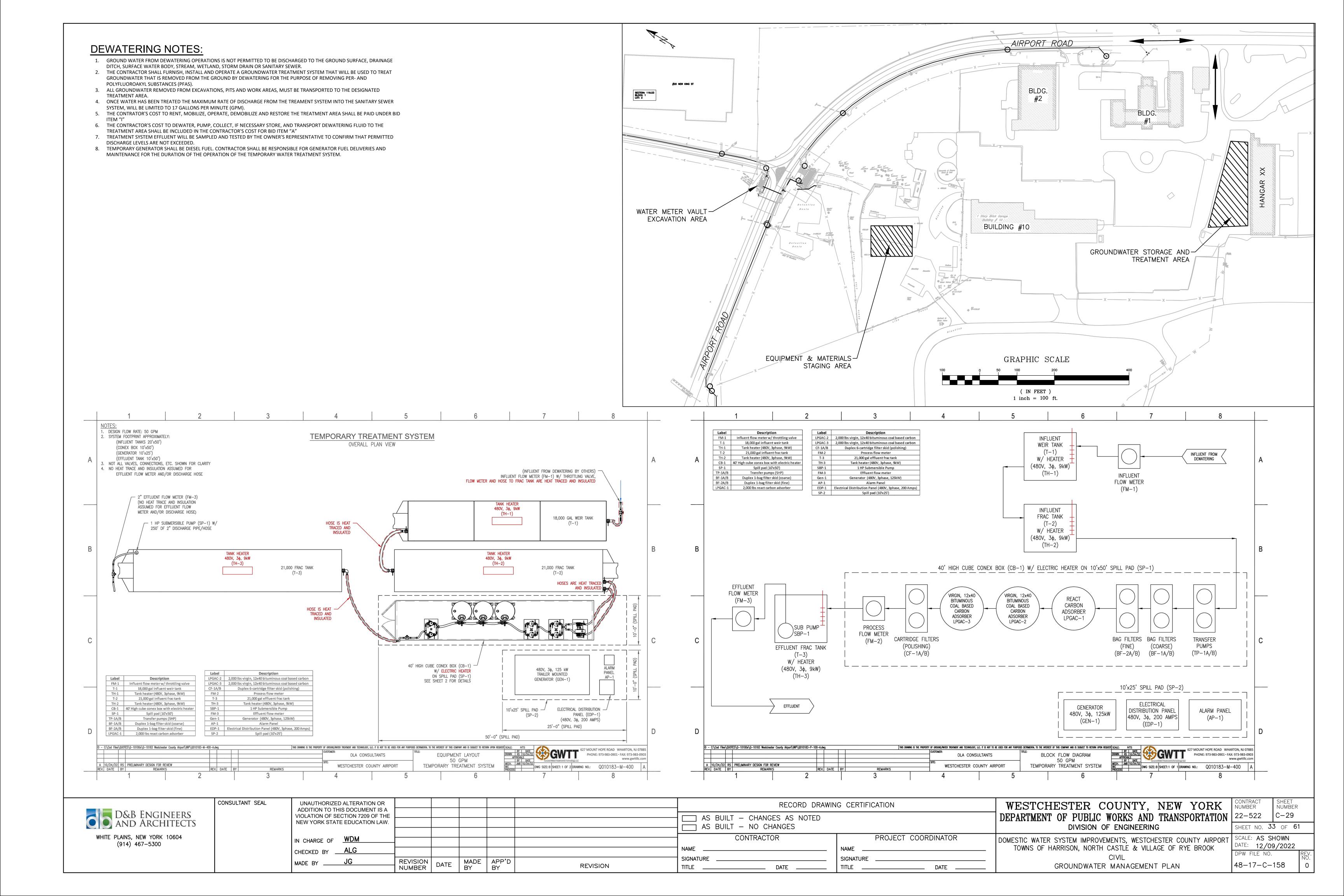
- 2. WIDTH TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY—FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- 3. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF
- 4. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS
- IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

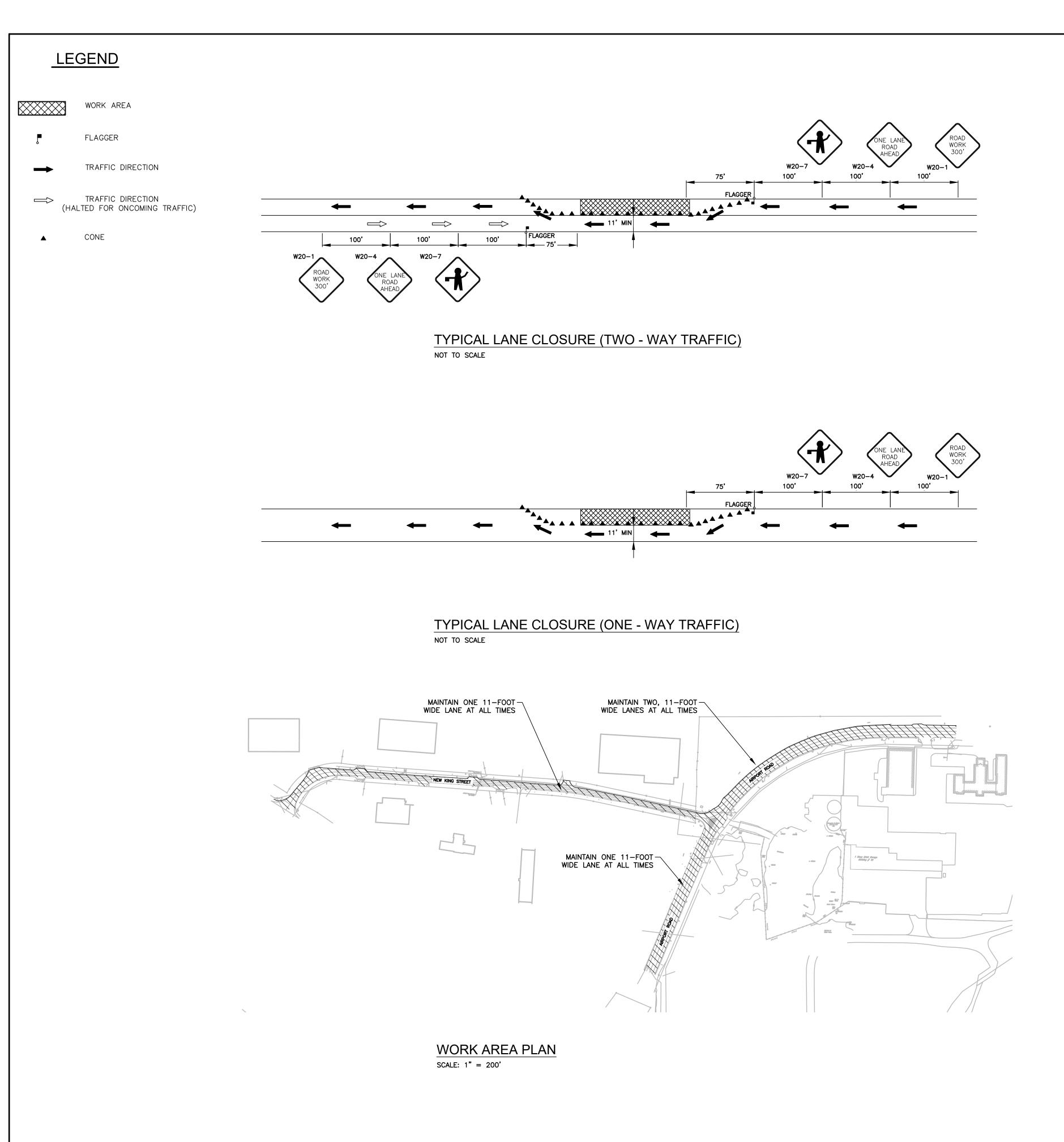
 5. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS—OF—WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS—OF—WAY MUST BE REMOVED IMMEDIATELY.
- 6. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH
- 8. STABILIZED CONSTRUCTION ENTRANCE'S SHALL BE PLACED SHALL BE COORDINATED WITH THE OWNER AND AT ALL CONSTRUCTION STAGING AREAS.











MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

1. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC, AND BE SUPPLEMENTED BY THE FEDERAL MUTCD AND THE NYS SUPPLEMENT AND PROVISIONS CONTAINED IN THE PLANS/OR PROPOSAL OF THIS CONTRACT.

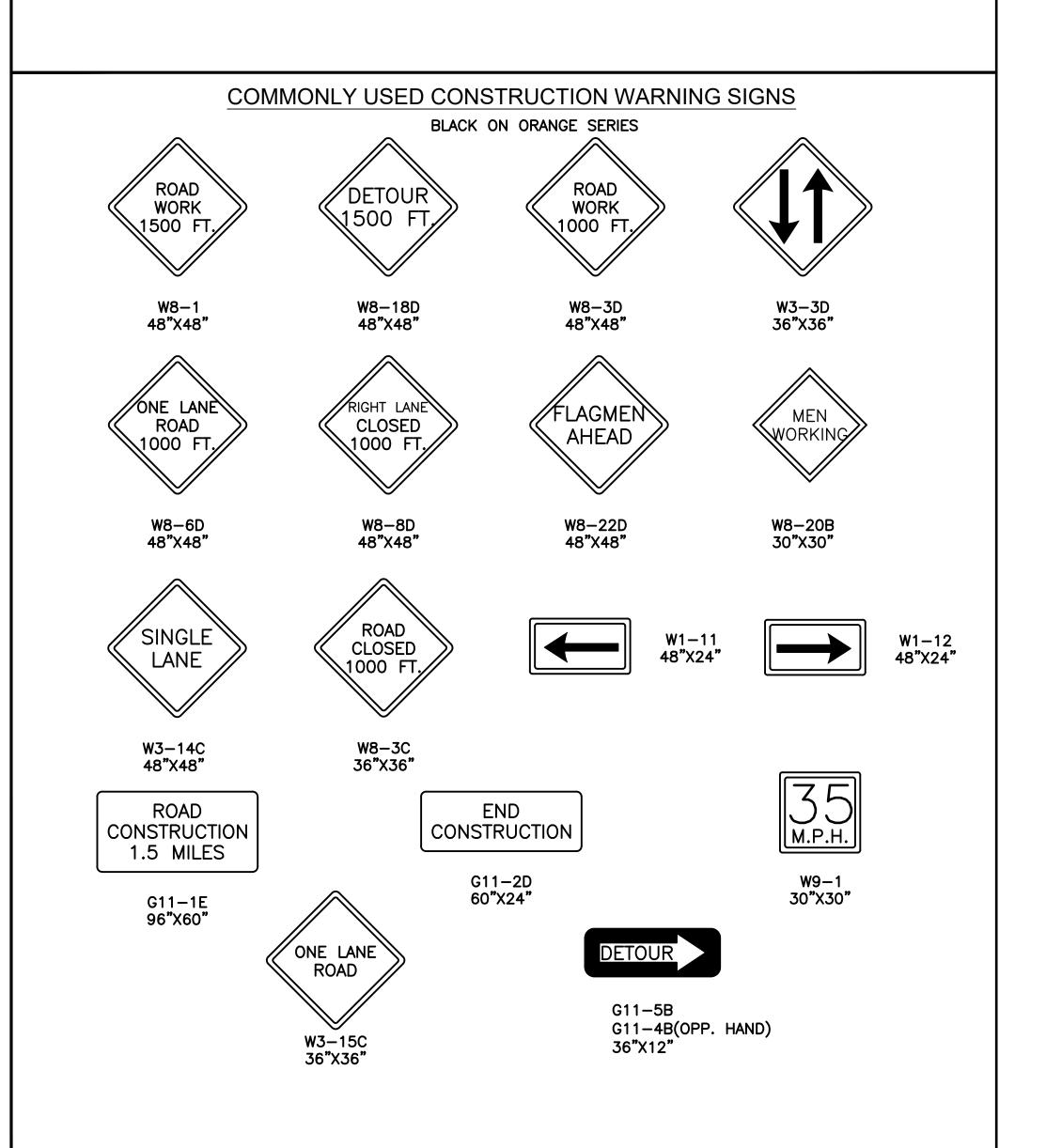
2. PRIVATE VEHICLES OWNED BY THE CONTRACTOR OR HIS WORKERS SHALL NOT BE PARKED ON PAVEMENT, SHOULDERS, OR ANY .OTHER AREAS DEEMED BY THE ENGINEER TO BE HAZARDOUS LOCATIONS. NO CONTRACTOR EQUIPMENT, TRUCKS OR VEHICLES SHALL BE PARKED OUTSIDE OF

3. ALL TEMPORARY CONSTRUCTION SIGNS SHALL CONFORM TO THE NEW YORK. STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. ALL CONSTRUCTION SIGNS SHALL BE

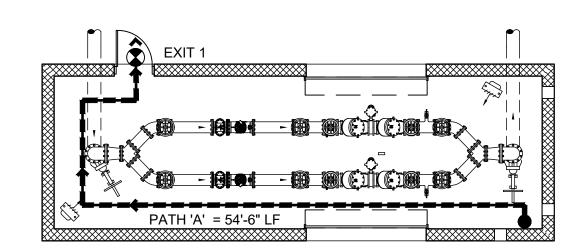
4. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO AVOID DAMAGING EXISTING PAVEMENTS, CURBS; AND EXISTING SIDEWALKS WHEN IT IS NECESSARY FOR HIM TO MOVE HIS EQUIPMENT THROUGH AIRPORT ACCESS ROADWAYS. IN THIS REGARD, HE SHALL OBSERVE ALL THE RULES AND REGULATIONS AND DIRECTIONS OF THE AIRPORT MANAGER OR HIS REPRESENTATIVE. ALL DAMAGE INCURED DUE TO HIS DISREGARD FOR THESE PROVISIONS, SHALL BE RESTORED AT HIS SOLE COST AND EXPENSE.

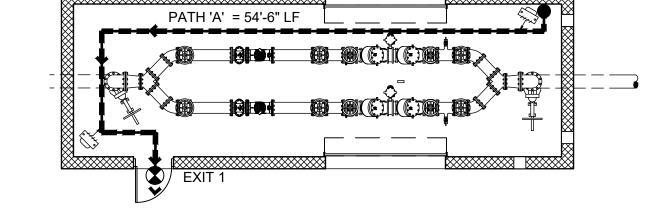
PUBLIC ACCESS:

- 1. ACCESS TO PROPERTY OWNERS' DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
- 2. A MINIMUM 11' OPEN LANE WIDTH FOR PROPERTY OWNERS ACCESS SHALL BE MAINTAINED AT ALL TIMES.
- 3. SUITABLE RAMPS SHALL BE INSTALLED TO MAINTAIN SMOOTH TRANSITIONS FROM RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO AND FROM THE WORK AREA.



	CONSULTANT SEAL	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A	RECORD DRAW	VING CERTIFICATION	WESTCHESTER COUNTY, NEW YORK	CONTRACT SHEET NUMBER
D&B ENGINEERS AND ARCHITECTS		VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.	AS BUILT — CHANGES AS NOTED AS BUILT — NO CHANGES		DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	
WHITE PLAINS, NEW YORK 10604 (914) 467-5300		IN CHARGE OF WDM CHECKED BY ALG MADE BY JG REVISION DATE MADE APP'D REVISION	CONTRACTOR NAME SIGNATURE	PROJECT COORDINATOR NAME SIGNATURE	DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK CIVIL	DATE: 12/09/2022 DPW FILE NO. REV. NO.
		MADE BY JG REVISION NUMBER DATE BY BY REVISION	TITLE DATE	TITLE DATE	MAINTENANCE AND PROTECTION OF TRAFFIC PLAN	48-17-C-159 0



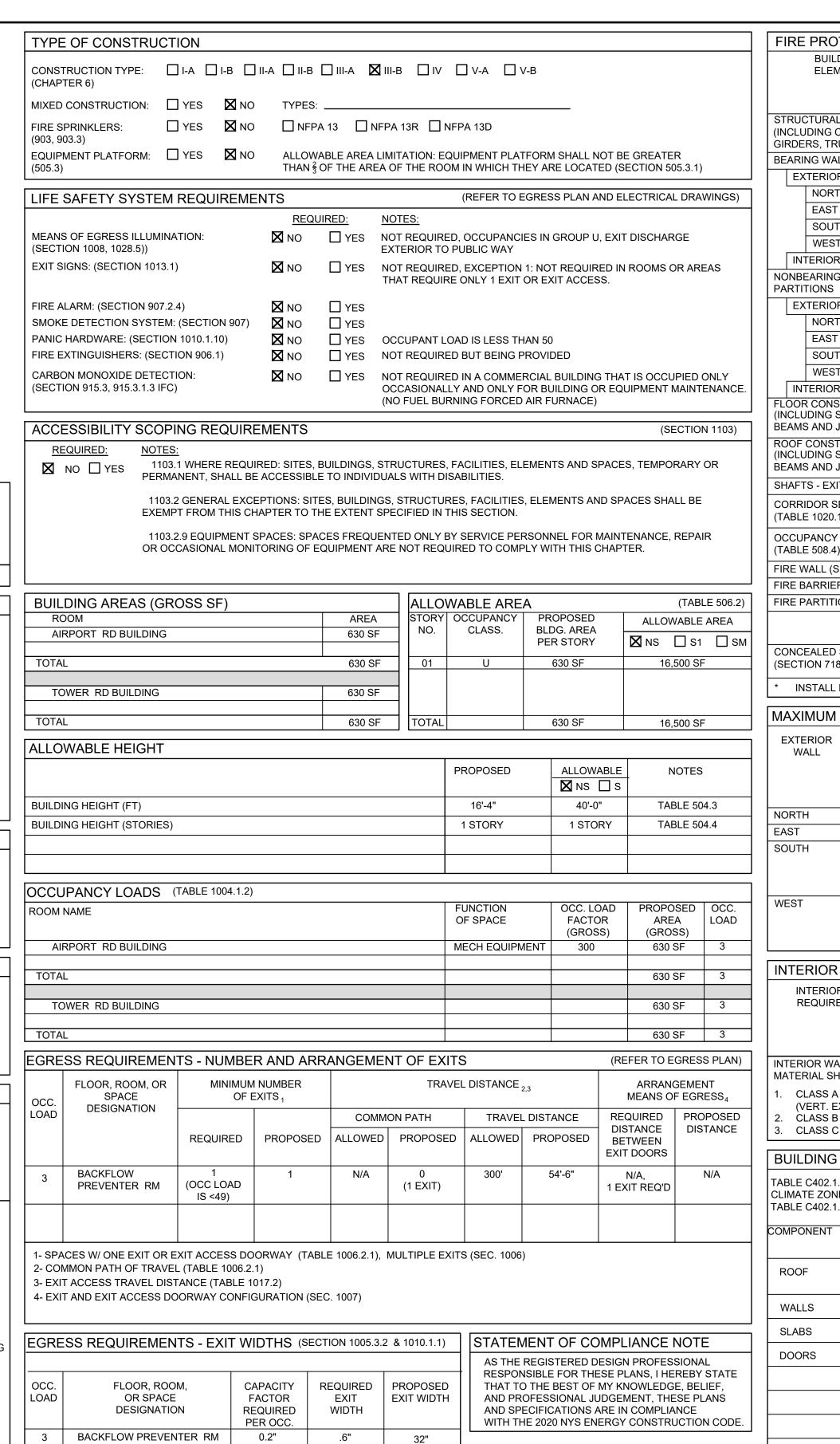




2	TOWER ROAD - EGRESS PLAN
A-001	SCALE: 1/8" = 1'-0"

EGRESS PLAN LEGEND: - REMOTE POINT - EXIT
- PATH / DIRECTION OF TRAVEL
SEE ELECTRICAL DRAWINGS FOR EXIT AND EMERGENCY LIGHTING

PROJECT INFOR	MATION									
NAME OF PROJECT:	E OF PROJECT: WESTCHESTER AIRPORT BACKFLOW PREVENTER BUILDINGS									
ADDRESS:	AIRPORT ROAD AND TOWER ROAD									
PROPOSED USE:	(PUBLIC WATER TREATMENT FACILITY)									
OWNER OR AUTHORIZED AGENT:	WESTCHESTE	ER AIRPORT			PHONE #					
OWNED BY:	WESTCHESTE	ER AIRPORT	CITY/	COUNTY	☐ PRIVATE					
CODE ENFORCEMENT JURISDICTION:	CITY:		Coni Con	NTY: <u>WESTCHESTER</u>	STATE: NEW YORK					
PROJECT DESCRIPTION OF THE CONTROL O		I OF A NEW 1 - STOR	Y BUILDING	ENCLOSURE AROUN	D					
EXISTING GAC WATER	R TREATMENT TA	ANKS AND RELATED	SITE IMPRO	VEMENTS						
NEW CONSTRUCT ■	ON EX	ISTING STRUCTURE	TENA	NT IMPROVEMENT						
☐ CHANGE OF OCCU	PANCY A	DDITION	☐ ALT	RATION	☐ REPAIR					
APPLICABLE CO ALL WITH 2017 UNIFORM CO SUPPLEMENT AMENDMENT	DDE BUIL	DING CODE OF NEW CODE OF NEW YOR								
	PLUM MEC	YORK STATE ENER MBING CODE OF NEV HANICAL CODE OF NEV L GAS CODE OF NEV	W YORK STAT NEW YORK S	ΓΑΤΕ, 2020	TION CODE, 2020					
OCCUPANCY CL	ASSIFICATIO	N			(CHAPTER 3)					
FACTORY & INDUSTRIAL:	□ F-1 □ I	F-2								
HIGH HAZARD:	☐ H-1 ☐ I	H-2	H-4	-5						
STORAGE:	☐ S-1 ☐ S									
UTILITY AND MISC.:	Ŭ∪	PILED								
INCIDENTAL USES: (SECTION 509)	NO D	YES 509.2	509.3	09.4						
MIXED OCCUPANCY: (SECTION 508)	NO D	YES SEPARATION (TABLE 508.4		EXCEPTION: N/A	<u> </u>					
	THE REQUITHE HEIGH BUILDING. THE ENTIR SEPARATE AREA SHAI	IT AND AREA LIMITA THE MOST RESTRI E BUILDING. D MIXED OCCUPANG LL BE SUCH THAT TH	STRUCTION F TIONS FOR E CTIVE TYPE (CY (SECTION HE SUM OF T	OR THE BUILDING SI ACH OF THE APPLIC OF CONSTRUCTION, 508.4) - SEE CALCUL HE RATIOS OF THE A	HALL BE DETERMINED BY APPLYING ABLE OCCUPANCIES TO THE ENTIRE SO DETERMINED, SHALL APPLY TO ATIONS. IN EACH STORY, THE BUILDIN ACTUAL FLOOR AREA OF EACH CCUPANCY SHALL NOT EXCEED 1.					
		ACTI	AL AREA OF	OCCUPANCY A OF OCCUPANCY B OF OCCUPANCY B	+					

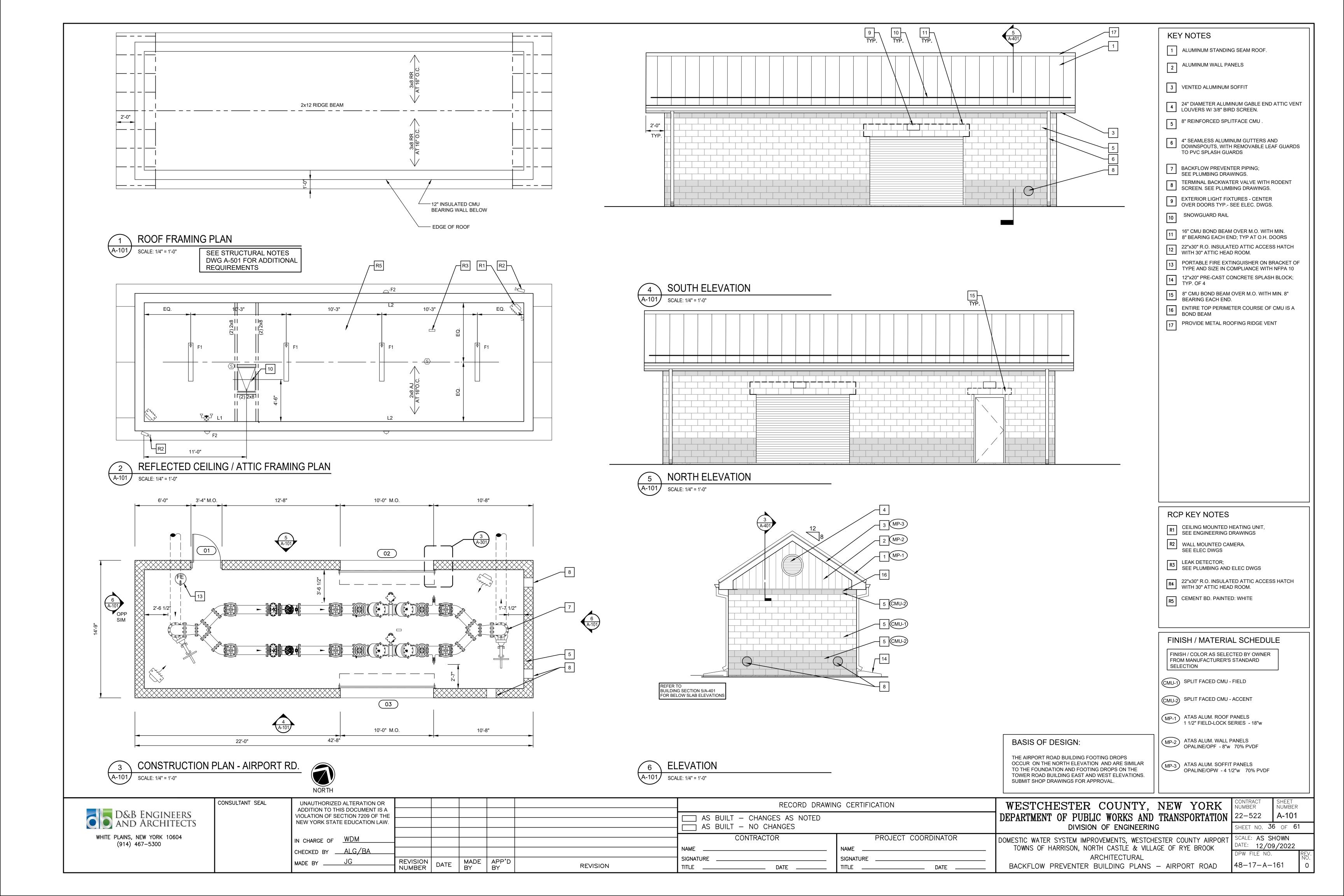


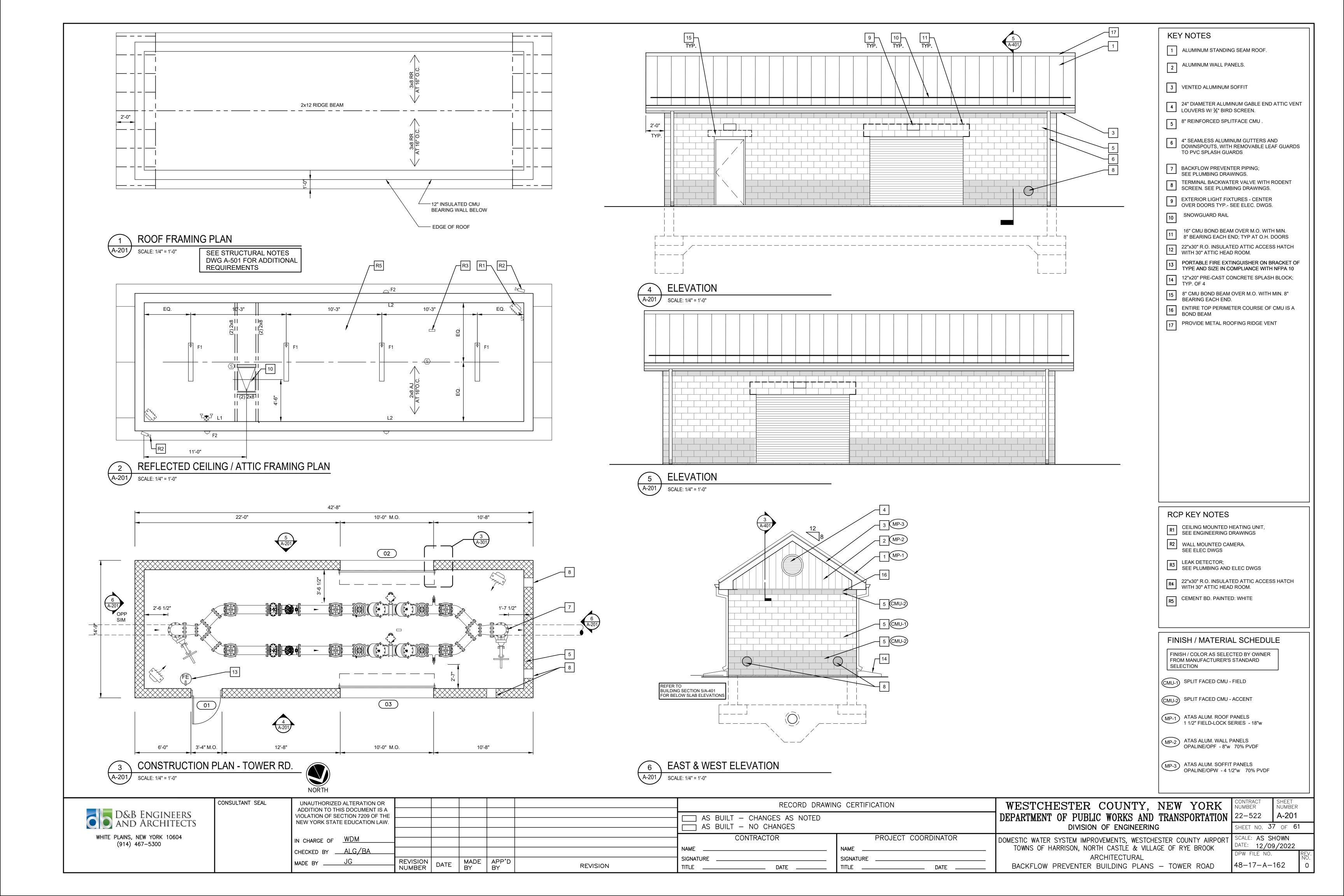
BUILDING ELEMENT		FIRE SEPARATION DISTANCE (FEET) (PER PLAN)	RAT REQU (TABL & 6	JIRED .E 601	DETAIL #		UL RATIN FOR RATE PENETRAT	ED RATED JOINTS
STRUCTURAL (INCLUDING C		(I LIVI LAIN)						
GIRDERS, TRU BEARING WAL	JSSES)							
EXTERIOR	R							
NORT	H	>30'	0 H					
SOUT	 H	>30' >30'	0 H					
WEST		>30'	0 H					
INTERIOR			0 H	lR .				
NONBEARING PARTITIONS	WALLS &							
EXTERIOR								
NORT	H	N/A N/A	0 H					
SOUT	H	N/A	0 H					
WEST		N/A	0 H					
INTERIOR FLOOR CONS		N/A	0 H	IR				
(INCLUDING S BEAMS AND J ROOF CONST	UPPORTING OISTS)		0 H	IR				
(INCLUDING S BEAMS AND J	UPPORTING		0 H					
CORRIDOR SE	,		N/A					
(TABLE 1020.1	<u> </u>		N/A	A 				
OCCUPANCY (TABLE 508.4)			N/A	A				
FIRE WALL (SI	ECTION 706)		N/A	A				
FIRE BARRIEF	R (SECTION 707)		N/A					
FIRE PARTITIO	JN (SEC. 700)		N/A					
CONCEALED S (SECTION 718			N//	A				
* INSTALL F	FIRE BLOCKING	AND DRAFT STO	OPPING I	N ACC	ORDANCE	WITH SECTION 7	'18	•
MAXIMUM	AREA OF EX	TERIOR WA	LL OPI	ENING	 GS:			
EXTERIOR	FIRE		OWABLE			PROPOSE	D	NOTES
WALL SEPARATION DISTANCE (FEET)		UNPROTE	(TABLE 705.8) ECTED,		OTECTED	_		
NORTH	,	NONSPRINE	KLERED			00/		
EAST	UP TO 5' 5' TO 10'	N/A N/A			15% 25%	0%		
SOUTH					UO LINAIT			
	>30'	N/A		I	NO LIMIT	11%		
WEST	>30'	N/A		1	NO LIMIT	1%		
					0.11/4.1.1			
	FINISHES -		KEAD F	1	G WALL		ON-SPRINKLE	
INTERIOR WALL & CEILING FINISH REQUIREMENTS BY OCCUPANCY (TABLE 803.3)						ROOMS 8	ROOMS & PROPOSED ENCLOSED SPACES	
, LEGUINE					U	NO RESTRIC	TION	NO RESTRICTION
, ve «Onve							VCTM E 04 CI	JCH INTERIOR FINISHES
INTERIOR WA								READ INDEX
INTERIOR WA MATERIAL SH. 1. CLASS A	ALL BE GROUP I : FLAME SPREAI	N THE FOLLOW D INDEX 0-25	ING CLA	SSES II	N ACCORD	ANCE WITH THE	IR FLAME SPI	
INTERIOR WA MATERIAL SH 1. CLASS A (VERT. E) 2. CLASS B	ALL BE GROUP I	N THE FOLLOW D INDEX 0-25 AGEWAYS, EXIT D INDEX 26-75	ING CLA	SSES II	N ACCORD. RIDOR, AND	ANCE WITH THE	IR FLAME SPI	
INTERIOR WA MATERIAL SH 1. CLASS A (VERT. E) 2. CLASS B 3. CLASS C	ALL BE GROUP I : FLAME SPREAI (ITS, EXIT PASS) : FLAME SPREAI : FLAME SPREAI	N THE FOLLOW D INDEX 0-25 AGEWAYS, EXIT D INDEX 26-75 D 76-200. (ROOM	'ING CLA	SSES II S CORF	N ACCORD	ANCE WITH THE	IR FLAME SPI	OF EGRESS)
INTERIOR WA MATERIAL SH 1. CLASS A (VERT. E) 2. CLASS B 3. CLASS C BUILDING	ALL BE GROUP I : FLAME SPREAI (ITS, EXIT PASS, : FLAME SPREAI	N THE FOLLOW D INDEX 0-25 AGEWAYS, EXIT D INDEX 26-75 D 76-200. (ROON NVELOPE E AND FENESTRATESTER COUNTY,	ACCESS MS & ENC NERGY TION REC NY)	SSES INSCRIPTIONS CONTRACTOR CONT	N ACCORD RIDOR, AND SPACES)	O OTHER WAYS I	IR FLAME SPI	OF EGRESS)
INTERIOR WA MATERIAL SH 1. CLASS A (VERT. EX 2. CLASS B 3. CLASS C BUILDING TABLE C402.1.1 CLIMATE ZONE TABLE C402.1.1	ALL BE GROUP I : FLAME SPREAI (ITS, EXIT PASS, : FLAME SPREAI : FLAME SPREAI THERMAL EI 3- INSULATION A E 4A (WESTCHES	N THE FOLLOW D INDEX 0-25 AGEWAYS, EXIT D INDEX 26-75 D 76-200. (ROON NVELOPE E AND FENESTRATESTER COUNTY,	TING CLAST ACCESS MS & ENC NERGY TION REC NY) JANCE	SSES IN SCORE	N ACCORDA RIDOR, AND SPACES) MPLIANC MENTS BY (S (U.O.N.)	O OTHER WAYS I	IR FLAME SPI	OF EGRESS)
INTERIOR WA MATERIAL SH 1. CLASS A (VERT. E) 2. CLASS B 3. CLASS C BUILDING	ALL BE GROUP I : FLAME SPREAD : FLAME SPREAD : FLAME SPREAD : FLAME SPREAD THERMAL ED 3- INSULATION A E 4A (WESTCHES 4 FOR SWINGING	N THE FOLLOW D INDEX 0-25 AGEWAYS, EXIT D INDEX 26-75 D 76-200. (ROOM NVELOPE E AND FENESTRAT STER COUNTY, G DOOR COMPL	TING CLAST ACCESS MS & ENC NERGY TION REC NY) LIANCE	SSES IN SCORE	N ACCORD RIDOR, AND SPACES) MPLIANC MENTS BY (O OTHER WAYS I	IR FLAME SPI	OF EGRESS) ERAL (PRESCRIPTIVE COMP
INTERIOR WA MATERIAL SH. 1. CLASS A (VERT. EX) 2. CLASS B 3. CLASS C BUILDING TABLE C402.1. CLIMATE ZONE TABLE C402.1. COMPONENT	ALL BE GROUP I : FLAME SPREAD (ITS, EXIT PASS) : FLAME SPREAD : FLAME SPREAD THERMAL EI 3- INSULATION A E 4A (WESTCHES 4 FOR SWINGING DESCRIPTION INSULATION BE DECK	N THE FOLLOW D INDEX 0-25 AGEWAYS, EXIT D INDEX 26-75 D 76-200. (ROOM NVELOPE E AND FENESTRAT STER COUNTY, G DOOR COMPL	TING CLAST ACCESS MS & ENCO NERGY TION RECO NY) LIANCE REQUIR R-38 BA	SSES IN SCORE	S (U.O.N.) PROPOSEI R-38 BATT	O OTHER WAYS I	IR FLAME SPI	PERAL (PRESCRIPTIVE COMP RESPONSIBILITY GENERAL CONTRACTO
INTERIOR WA MATERIAL SH. 1. CLASS A (VERT. E) 2. CLASS B 3. CLASS C BUILDING TABLE C402.1. CLIMATE ZONE TABLE C402.1.	ALL BE GROUP I : FLAME SPREAD (ITS, EXIT PASS) : FLAME SPREAD : FLAME SPREAD THERMAL ED 3- INSULATION A E 4A (WESTCHES 4 FOR SWINGING DESCRIPTION INSULATION BE	N THE FOLLOW D INDEX 0-25 AGEWAYS, EXIT D INDEX 26-75 D 76-200. (ROOM NVELOPE E ND FENESTRA STER COUNTY, EDOOR COMPL	TING CLAST ACCESS MS & ENCO NERGY TION RECO NY) LIANCE REQUIR	SSES IF S CORF CLOSED Y CON QUIREN -VALUE ED	N ACCORD RIDOR, AND SPACES) MPLIANC MENTS BY (S (U.O.N.) PROPOSEI	OTHER WAYS I	IR FLAME SPI	PF EGRESS) ERAL (PRESCRIPTIVE COMP RESPONSIBILITY

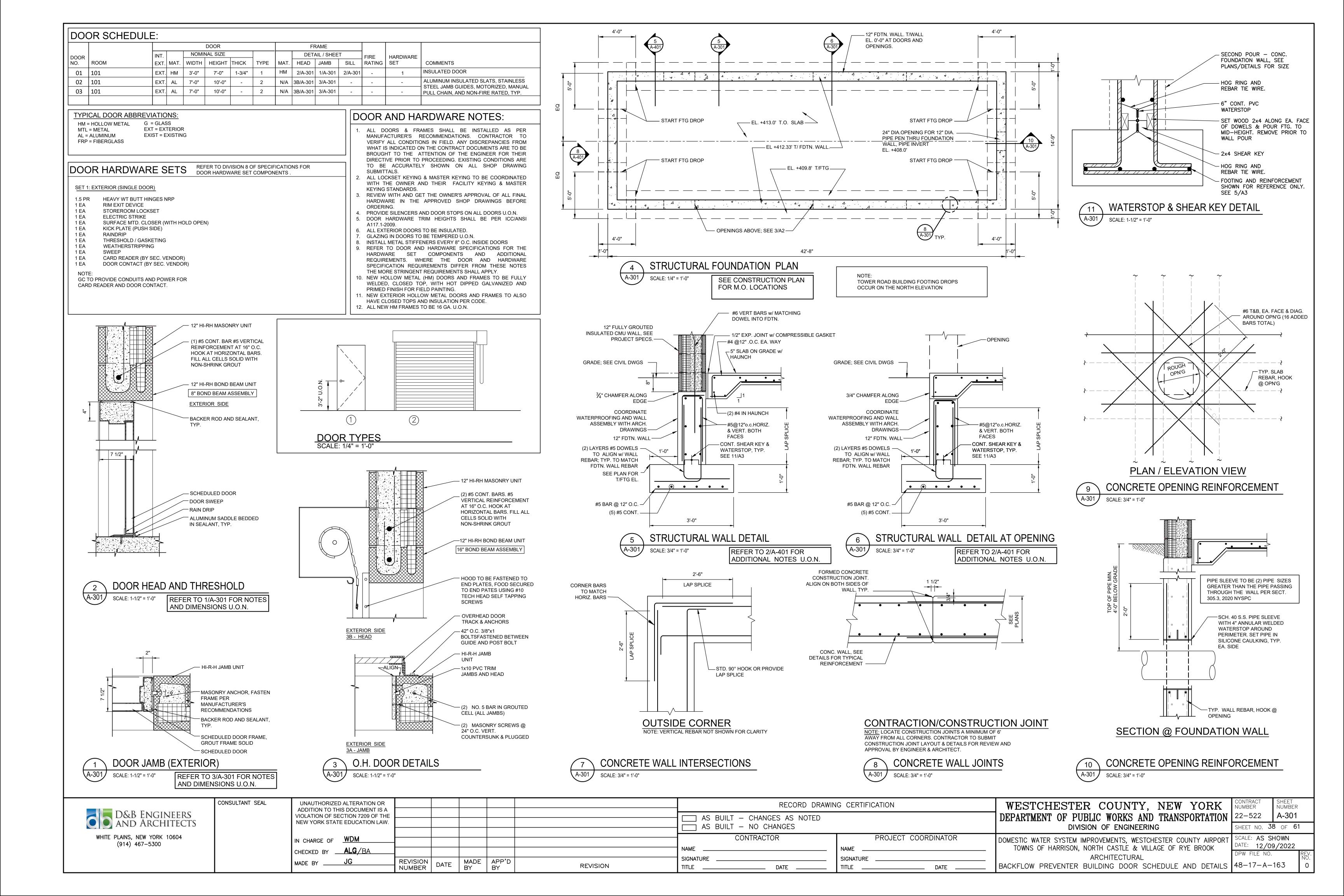
D&B ENGINEERS AND ARCHITECTS
WHITE PLAINS, NEW YORK 10604 (914) 467-5300

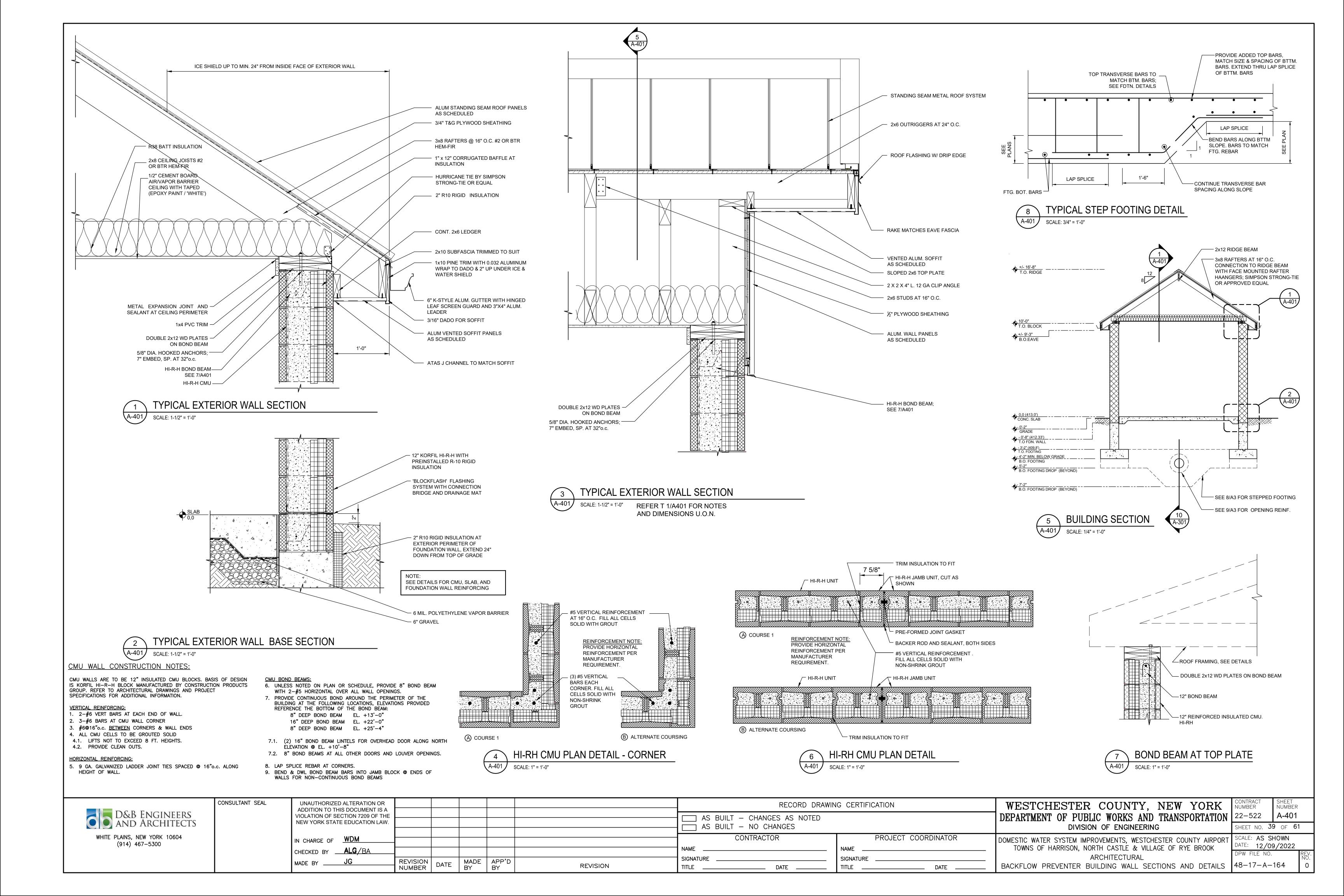
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UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A		RECORD DRAWIN	IG CERTIFICATION	WESTCHESTER COUNTY, NEW YORK	CONTRACT SHEET NUMBER
VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.		AS BUILT — CHANGES AS NOTED		DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	_
		AS BUILT — NO CHANGES		DIVISION OF ENGINEERING	SHEET NO. 35 OF 6 1
IN CHARGE OF WDM		CONTRACTOR	PROJECT COORDINATOR	TUDIVICATIO WATEN ATATEMI IMITIO VENIENTA. WESTOTESTEN GUUNTT AINTUNT	SCALE: AS SHOWN
CHECKED BY ALG/BA		NAME	NAME	TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK	DATE: 12/09/2022 DPW FILE NO.
· · · · · · · · · · · · · · · · · · ·	VISION DATE MADE APP'D	SIGNATURE	SIGNATURE	ARCHITECTURAL	
	MBER DATE BY BY REVISION	TITLE DATE	TITLE DATE	CODE ANALYSIS	48-17-A-160









<u>GENERAL</u>

- 1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE NEW YORK STATE BUILDING CODE AND WITH THE RULES AND REGULATIONS OF ALL LOCAL AGENCIES. DEPARTMENTS OR LAWS HAVING JURISDICTION OVER ANY PORTION OR SPECIFIC PHASE OF THE WORK. THE CONTRACTOR SHALL COORDINATE THE WORK WITH PUBLIC UTILITY COMPANIES HAVING JURISDICTION.
- 2. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED FOR THE PERFORMANCE OF THE WORK AND PAY ALL FEES IN CONNECTION
- CONTRACTOR SHALL COORDINATE DRAWINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS.
- 4. THE SIZE AND LOCATION OF ALL EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE SHALL BE VERIFIED BY THE GENERAL. ELECTRICAL AND PLUMBING CONTRACTORS. ALL PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.
- 5. THE CONTRACTOR SHALL NOT MAKE DEVIATIONS FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT/ENGINEER.
- 6. IF THERE IS A DISCREPANCY ON THE CONSTRUCTION DOCUMENTS, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY SO THAT THE DISCREPANCY CAN BE RESOLVED. UNLESS OTHERWISE INDICATED IN WRITING BY THE ARCHITECT/ENGINEER. THE MORE CONSERVATIVE INTERPRETATION OF THE CONSTRUCTION DOCUMENTS SHALL APPLY.
- 7. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS CONFIRMED BY FIELD CONDITIONS TAKE PRECEDENCE. IF DISCREPANCY ARISES BASED ON FIELD CONDITIONS, CONSULT WITH ARCHITECT/ENGINEER BEFORE PROCEEDING WITH WORK OR ORDERING MATERIALS.
- 8. ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY FOR THE SAME AND SIMILAR CONDITIONS, UNLESS OTHERWISE SPECIFICALLY NOTED.
- 9. ANY ITEM OF WORK NECESSARY FOR PROPER COMPLETION OF CONSTRUCTION, WHICH IS NOT SPECIFICALLY COVERED ON THE DRAWINGS OR IN THE SPECIFICATIONS, SHALL BE CONSIDERED INCLUDED IN THIS WORK AND SHALL BE PERFORMED IN A MANNER DEEMED GOOD PRACTICE OF THE TRADE INVOLVED.
- 10. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE SAFETY OF THE PUBLIC AND PROPERTY DURING CONSTRUCTION OPERATIONS AND UNTIL COMPLETION OF ALL WORK.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTION OR MISALIGNMENT. CONTRACTOR SHALL REPAIR OR REPLACE SUCH DAMAGE OR DISTURBANCE TO ORIGINAL PRE-CONSTRUCTION CONDITION IMMEDIATELY.
- 12. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE PERFORMANCE OR THE WORK OF THE GENERAL CONTRACTOR, OWNER OR ANY OTHER SUBCONTRACTORS NOR SHALL HE GUARANTEE THEIR PERFORMANCE.
- 13. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IMMEDIATELY IF HE OR SHE CANNOT COMPLY WITH ANY REQUIREMENTS.
- 14. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CHANGES TO THIS PROJECT MADE BY OWNER, GENERAL CONTRACTOR OR ANY SUBCONTRACTOR OR MATERIAL SUPPLIER UNLESS SPECIFICALLY AUTHORIZED, IN WRITING, BY THE ENGINEER.

CONCRETE MASONRY WALLS & PIERS

- 1. ALL CONCRETE BLOCK SHALL CONFORM TO TMS/ACI/ASCE 530-13 AND
- 2. CMU WALLS ARE TO BE 8" INSULATED CMU BLOCKS, UNLESS OTHERWISE NOTED. BASIS OF DESIGN IS KORFIL HI-R-H BLOCK MANUFACTURED BY CONSTRUCTION PRODUCTS GROUP. REFER TO ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 3. ALL MORTAR SHALL BE AS FOLLOWED U.O.N. BELOW GRADE TYPE M f'c=2800 PSI REINFORCED MASONRY TYPE S f'c=1800 PSI
- 4. GROUT FOR FILLING CORES OF BLOCK SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND SHALL MEET THE ACI SPEC REQUIREMENT REFERENCED ABOVE.
- 5. ALL BLOCK DIMENSIONS INDICATED PLANS ARE NOMINAL DIMENSIONS.
- 6. ALL CONCRETE BLOCK SHALL BE FILLED SOLID WITH MORTAR OR GROUT
- 7. CONCRETE BLOCK BELOW BEAM OR JOIST BEARING POINTS SHALL BE FILLED SOLID FOR A MINIMUM OF TWO COURSES IN DEPTH AND A MINIMUM OF 32" IN WIDTH, U.O.N.
- 8. MASONRY WALLS SHALL BE REINFORCED AS SHOWN & SPECIFIED ON THESE DRAWINGS.
- 9. GENERAL CONTRACTOR SHALL SUBMIT REINFORCING SHOP DRAWINGS FOR ALL STRUCTURAL MASONRY WALLS.

CONCRETE SLABS - SLAB-ON-GRADE

- WELDED WIRE FABRIC FOR CONCRETE SLABS ON GRADE SHALL BE PLACED 2" BELOW TOP OF SLAB. LAP SPLICE OVERLAP LENGTH TO BE 8" AND SHALL BE MEASURED BETWEEN THE OUTERMOST CROSS WIRES OF EACH FABRIC SHEET. DO NOT PLACE WWF BELOW MIDDEPTH OF SLAB.
- 2. CONSTRUCT CONTROL JOINTS IN SLABS-ON-GRADE AS INDICATED ON
- 3. LOCATION OF ALL JOINTS IN CONCRETE SLABS ON GRADE TO BE COORDINATED BY GENERAL CONTRACTOR WITH JOINTS IN FLOOR AND WALL FINISHES AND REVIEWED WITH AND APPROVED BY ENGINEER PRIOR TO POURING OF SLABS.
- 4. PROPER CURING PROCEDURES AS PER ACI 308, INCLUDING HOT AND COLD WEATHER CONCRETING PROVISIONS, SHALL BE USED FOR ALL CONCRETE SLABS.

CONSULTANT SEAL

STRUCTURAL TESTS & "SPECIAL" INSPECTION

ALL MATERIALS, ASSEMBLIES, METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL COMPLY WITH N.Y.S. BUILDING CODE REQUIREMENTS FOR "STRUCTURAL TESTS & SPECIAL INSPECTIONS AND ACCEPTANCE" CHAPTER

- 1. DETAILED REQUIREMENTS OF INSPECTION AND TESTING WILL COMPLY WITH CHAPTERS 17 AND CHAPTER 18 OF THE N.Y.S. BUILDING CODE. BUILDING DEPARTMENT FORMS ARE TO BE FILED FOR THE FOLLOWING AREAS FOR THE STRUCTURAL WORK: CONSTRUCTION
 - A. CONCRETE CONSTRUCTION (1705.3)
 - B. MASONRY (1705.4)
 - C. SOILS (1705.6)
 - D. WIND-RESISTING COMPONENTS (1705.11.3) E. DESIGN STRENGTHS OF MATERIALS (1706)
- 3. THE GENERAL CONTRACTOR SHALL HIRE AND PAY FOR THE SERVICES OF A N.Y. STATE P.E. & NYS LICENSED TESTING LABORATORY TO PROVIDE THE TESTING AND INSPECTION REQUIRED FOR SOILS TESTING, CONCRETE SAMPLING AND TESTING, AND ANY MATERIAL STRENGTH TESTING REQUIRED FOR MASONRY. CONSTRUCTION MANAGER SHALL PROVIDE VISUAL INSPECTIONS FOR CONCRETE REINFORCING, STEEL SITE ERECTION.
- 4. GENERAL CONTRACTOR SHALL COORDINATE ALL INSPECTIONS WITH TESTING AGENCY, ENGINEER OF RECORD, AND CONSTRUCTION MANAGER. PRIOR TO THE START OF WORK, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER 48 HOURS AHEAD OF ANY STRUCTURAL WORK REQUIRING VISUAL INSPECTION OR OBSERVATION.

MASONRY CONSTRUCTION AND ALL REQUIRED FIELD OBSERVATIONS

DESIGN LOADS

- 1. DESIGN LOADS SHALL CONFORM TO THE FOLLOWING:
- 1.1. NEW YORK STATE BUILDING CODE, 2020, WITH AMENDMENTS
- 1.3. ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

2. LIVE LOAD:

20 PSF BOTTOM CHORD 5 PSF

COLLATERAL 15 PSF 1ST FLOOR 125 PSF / 2,000 LB.

3. SNOW LOAD:

GROUND SNOW LOAD 30 PSF SNOW LOAD DRIFT AND UNBALANCED LOADS PER ASCE 7-16

4. WIND LOAD:

CATEGORY IV EXPOSURE "C"

BASIC WIND SPEED 125 MPH

5. SEISMIC LOAD:

STRUCTURAL RISK CATEGORY: IV SITE CLASS "D"

le = 1.25Fa = **1.3**

Fv = 1.5Sds = 0.299 q

Sd1 = 0.097SEISMIC DESIGN CATEGORY "C"

Design Criteria

All structures have been designed in accordance with the following codes and standards:

- New York State Building Code
- ASCE 7-10 Minimum design loads for buildings and other structures
- 3. ACI 318-14 Building code requirements for structural concrete 4. ACI 530-13 Building code requirements for masonry structures
- AFPA-WFCM wood frame construction manual 2014

Foundations

- 1. Per geotechnical report by Skylands Engineering, dated 10/20/20, the allowable soil bearing pressure under BFP building at the North Complex is 1.5 tons per sq. ft, and under BFP building at Tower Road is 3.0 tons per sq. ft.
- 2. Contractor shall dewater the excavated areas during foundation construction
- 3. Contractor shall provide necessary shoring and bracing during construction to maintain stability of the
- No concrete shall be placed on frozen grounds
- Excavation and backfill

The contractor shall excavate and remove 6 ft of fill soil from under the proposed BFP building at the North Complex and 4'- 6" of fill soil from under the proposed BFP building at Tower Road. The subgrades shall be compacted. Structural backfill shall be placed in 12" maximum loose lifts and compacted to 95% of its maximum dry density at optimum moisture content as determined by the Modified Proctor Dry Density Test (ASTM D1557) to a height 3'-6" below the grade levels. The area above the compacted backfill shall be filled with %" clean crushed stone to the bottom of the floor slab. Provide 6" of crushed stone below the foundation walls.

No backfill shall be placed against the foundations walls until concrete has attained the design strength Structural backfill – Structural backfill soil shall be well graded, coarse to fine mix of gravel and sand, free of organic or other deleterious materials. The maximum aggregate size shall be no bigger than 1 "

Cast-in-Place Concrete

- Concrete shall be normal weight concrete weighing 145 lbs/c. ft.
- The minimum concrete strength at 28 days shall be 4000 psi Reinforced steel shall be new billet steel conforming to ASTM A615, grade 60
- 4. Welded wire fabric shall conform to ASTM A185 with minimum yield strength of 65,000 psi
- Spliced bars shall have a minimum lap of class B tension lap splice, UNO.
- Contraction joints shall be provided in the floor slab at 15 ft (max) on center
- 6. Concrete cover for reinforcing steel shall conform to code ACI 318
- Concrete shall be wet cured for 7 days

CAST IN PLACE CONCRETE

- 1. ALL CONCRETE WORK SHALL CONFORM TO ACI-350 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR ENVIRONMENTAL ENGINEERING STRUCTURES AND ACI-301 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATEST EDITION.
- 2. ALL CONCRETE SUPERSTRUCTURE AND FOUNDATIONS SHALL BE 4000 P.S.I. NORMAL WEIGHT STONE CONCRETE, AIR ENTRAINED AS PER THE SPECIFICATIONS. THE VALUES LISTED ARE A MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS AFTER POUR.
- ALL DEFORMED REINFORCING STEEL SHALL CONFORM TO ASTM A-615. GRADE 60,
- 4. NO ADMIXTURE SHALL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE
- ENGINEER. CALCIUM CHLORIDE SHALL NOT BE USED IN CONCRETE MIXES. 5. ALL REQUIREMENTS FOR BATCHING, MIXING, FINISHING, CURING ETC. SHALL BE AS PER ACI 301.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 WITH A MINIMUM ULTIMATE STRENGTH OF 70,000 PSI. EPOXY COATED WIRE SHALL CONFORM TO ASTM A 884
- 7. REINFORCING BARS SHALL BE LAP SPLICED AS INDICATED ON THE DRAWINGS. THE LAP SPLICES SHALL BE ACI CLASS 'B' UNLESS NOTED. ENGINEER OF RECORD TO REVIEW AND APPROVE ANY MECHANICAL SPLICE CONNECTIONS FOR REBAR.
- 8. ALL 90 DEGREE AND 180 DEGREE HOOKS SHALL BE ACI STD HOOKS UNLESS OTHERWISE INDICATED.
- 9. MINIMUM CONCRETE COVERING OF REINFORCING STEEL SHALL BE AS FOLLOWS: CAST AGAINST EARTH:

SLABS & WALLS 2" (STIRRUPS) BEAMS & COLUMNS: 2½" (PRIMARY) FOOTINGS & MAT SLAB SHELLS / PLATE

- 10. PROVIDE PROPER HIGH CHAIRS, SPACERS AND SUPPORTS TO HOLD REINFORCING SECURELY IN PLACE WHILE PLACING CONCRETE.
- 11. THE CONTRACTOR SHALL ASCERTAIN LOCATION OF ALL SLEEVES, INSERTS ANCHOR BOLTS, ETC. REQUIRED. INSTALLATION OF ALL SUCH EMBEDMENTS SHALL BE CHECKED FOR COMPLETENESS AND LOCATION BEFORE CONCRETE IS POURED AND COORDINATED WITH SHOP DRAWINGS OF TRADES REQUIRING THESE ITEMS. MINIMUM CONCRETE BETWEEN SLEEVES SHALL BE 8 INCHES, UNLESS OTHERWISE NOTED.
- 12. FOR EMBEDDED INSERT LOCATIONS, DETAILS, ELEVATIONS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS REFER TO THE MECHANICAL DRAWINGS.
- 13. UNLESS OTHERWISE NOTED, REINFORCING BARS OR WELDED WIRE FABRIC SHALL NOT BE WELDED, TACK-WELDED OR USED FOR STRIKING
- 14. THROUGHOUT CONSTRUCTION, THE CONCRETE WORK SHALL BE ADEQUATELY PROTECTED AGAINST DAMAGE DUE TO EXCESSIVE LOADING. CONSTRUCTION EQUIPMENT, MATERIALS OR METHODS, ICE, RAIN, SNOW, EXCESSIVE HEAT AND FREEZING TEMPERATURES.
- 15. EARLY DRYING OUT OF CONCRETE, ESPECIALLY DURING THE FIRST 24 HOURS, SHALL BE CAREFULLY GUARDED AGAINST. ALL SURFACES SHALL BE MOIST CURED OR PROTECTED USING A MEMBRANE CURING AGENT APPLIED AS SOON AS FORMS ARE REMOVED. IF MEMBRANE CURING AGENT IS USED, EXERCISE CARE NOT TO DAMAGE COATING.
- 16. CONCRETE SURFACE FINISHES:

FLOOR SLAB: STEEL TROWEL FINISH STEEL TROWEL FINISH

- . GROUTING BELOW STEEL BEARING PLATES, AND AS OTHERWISE SHOWN ON THE DRAWINGS SHALL BE NON SHRINK, NON METALIC GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 1 DAY AND 6000 PSI AFTER 7 DAYS.
- 2. GROUT REFERRED TO AS 'DRY PACK' SHALL MEET THE STRENGTH REQUIREMENTS ABOVE BUT HAVE A LOW WATER CONTENT SO THAT IT WOULD BE STIFF ENOUGH TO BE PACKED SOLIDLY INTO PLACE.
- 3. GROUT THAT NEEDS TO BE INSTALLED THICKER THAN 3" IN THE VERTICAL DIMENSION SHALL HAVE PEA GRAVEL ADDED.
- 4. CONTRACTOR SHALL SUBMIT MANUFACTURER'S DATA ON GROUT TO BE USED, AS WELL AS DESIGN MIXES FOR GROUT WITH ADDED PEA GRAVEL, TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.

TABLE OF REINFORCING STEEL AND DEVELOPMENT MIN. SPLICE LENGTHS (INCHES) f'c=4000psi, fy=60ksi									
BAR SIZE	TENSION DEVELOPMENT LAP	TENSION LAP SPLICE CLASS B	COMPRESSION DEVELOPMENT LENGTH						
#3	13	16	8	12					
#4	16	20	9	15					
#5	20	25	12	19					
#6	24	31	14	23					
#7	34	44	16	27					
#8	40	51	18	30					
#9	44	57	21	34					
#10	50	64	23	38					
#11	55	71	26	43					

NOTES:

- 1. USE TENSION LAP LENGTH IN ALL LAP SPLICES OF BARS, EXCEPT FOR SPLICES OF VERTICAL COLUMN BARS AND AS SHOWN ON DWGS.
- 2. THE SPLICES OF VERTICAL COLUMN BARS SHALL BE COMPRESSION LAP SPLICES, EXCEPT AS INDICATED ON SPECIFIC DETAILS AS
- TENSION LAP SPLICES. 3. USE TENSION AND COMPRESSION DEVELOPMENT LENGTHS AT LOCATIONS AS INDICATED ON THE DRAWINGS.

EXCAVATION NOTES / REQUIREMENTS:

THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY SUPPORT OF **EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT** CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PREPARED BY A LICENSED NEW YORK STATE PROFESSIONAL ENGINEER, AND OBTAIN APPROVAL FORM FROM THE PROJECT ENGINEER, PRIOR TO THE START OF WORK.

REFERENCES: 1. ALL ELEVATIONS ARE REFERENCED TO THE NAVD '88 DATUM

- 2. BASE PLAN AND SECTION IS DEVELOPED FROM: TERRY BERGENDORFF COLLINS
- 2.1. SURVEY DRAWING DATED: 08/18/2020
- 3. SOIL DATA OBTAINED FROM: 10/23/2020 BY SKYLANDS ENGINEERING, LLC 3.1. GEOTECHNICAL EVALUATION REPORT DATED 03/29/2021 BY SOIL MECHANICS
- LOCATIONS AND ELEVATIONS OF ALL PROPOSED STRUCTURAL BUILDING
- ELEMENTS SHOWN ON THIS DRAWING MAY BE APPROXIMATE AND SHALL BE SUPERSEDED BY FINAL STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS IN THE FIELD. IF CONDITIONS OBSERVED IN THE FIELD DIFFER FROM THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO EVALUATE THE CONDITION. MODIFICATIONS TO THESE DRAWINGS MAY BE NECESSARY.

DEWATERING NOTES:

- ANY WATER INFLOW INTO THE EXCAVATION AREA SHALL BE CONTROLLED BY SUMPING OR OTHER SUITABLE METHODS. DISPOSAL OF WATER SHALL BE MADE OUT OF THE EXCAVATED AREA IN ACCORDANCE WITH LOCAL REGULATIONS. THE ELEVATION OF THE WATER LEVELS BEYOND THE LIMITS OF THE PROJECT SITE SHALL NOT BE LOWERED SO AS TO CAUSE DISTRESS AND/OR SETTLEMENT TO ADJOINING STRUCTURES. CONTRACTOR SHALL PROVIDE MEANS AND METHODS TO PREVENT LOSS OF FINES DURING DEWATERING.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DEWATERING THAT MAY BE REQUIRED FOR THIS PROJECT.
- 3. IF DEWATERING SYSTEM IS REQUIRED, THE CONTRACTOR SHALL CONSULT A DEWATERING ENGINEER.
- 4. BASED ON THE GEOTECHNICAL REPORT, SEASONAL GROUNDWATER IS ANTICIPATED DURING THE FOUNDATION EXCAVATION AND CONSTRUCTION

EXCAVATION

BEFORE STARTING EXCAVATION, CONTRACTOR SHALL CALL 811 FOR UTILITY

COMPANIES TO MARK OUT ALL BELOW GRADE EXISTING UTILITY LINES.

- PRIOR TO COMMENCEMENT OF MASS EXCAVATION, THE ADJACENT STREET, SIDEWALK, AND ADJACENT STRUCTURES WITHIN THE INFLUENCE OF THE EXCAVATION SHALL BE VISUALLY SURVEYED BY THE CONTRACTOR AND SUITABLY MARKED WITH MONITORING POINTS TO BE MEASURED DURING CONSTRUCTION FOR THE PURPOSE OF DETERMINING ANY CONSTRUCTION RELATED EFFECTS FROM THE EXCAVATION WORK.
- 2.1. A PRE-CONSTRUCTION DAMAGE CONDITION REPORT OF THE ADJOINING PROPERTIES SHALL BE MADE IN WRITTEN AND PICTORIAL FORM, WITH AN ELECTRONIC COPY SUBMITTED TO THE DISTRICT AND ENGINEER OF RECORD BEFORE COMMENCING EXCAVATION.
- 3. A COMPETENT REPRESENTATIVE OF THE CONTRACTOR SHALL INSPECT THE SUBGRADE OF THE EXCAVATION, AND ALL SUPPORT OF EXCAVATION STRUCTURES AT THE COMMENCEMENT OF WORK EACH DAY.
- 4. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SUBGRADE CONDITIONS PRIOR TO THE START OF WORK. THESE DRAWINGS DISCOUNT UNDERGROUND WATER CONDITIONS.
- . THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY EXCAVATION RESTRAINT REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO BE APPROVED PRIOR TO THE START OF WORK.

6. ALL EXCAVATION GREATER THAN 5 FOOT IN DEPTH SHALL BE SHEETED, LAGGED,

- OR BRACED. 7. ALL EXCAVATIONS GREATER THAN 10 FEET IN DEPTH SHALL REQUIRE NYS PE SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS PRIOR TO THE
- COMMENCEMENT OF EXCAVATION WORK 8. WHERE BRACING IS USED TO SUPPORT THE EXCAVATION, PROVIDE STEEL WEDGES PROPERLY DRIVEN INTO THE JOINTS UNTIL THE NECESSARY REACTION IS PROVIDED AT THE BRACE.
- 9. NO MATERIALS SHALL BE PLACED WITHIN 10 FEET OF THE EXCAVATION
- 10. BOTTOM OF EXCAVATION ELEVATION AS SHOWN ON THESE DRAWINGS SHALL BE VERIFIED AND COORDINATED IN FIELD WITH CONTRACT DOCUMENTS.
- 11. EXCAVATION ELEVATIONS SHOWN ON THESE DRAWINGS ARE BASED ON ELEVATIONS SHOWN ON THE REFERENCED DOCUMENTS. ADDITIONAL EXCAVATION MAY BE REQUIRED AS PER STRUCTURAL DESIGN AND
- CONSTRUCTION REQUIREMENTS. 12. IF THE CONDITIONS OBSERVED AS THE EXCAVATION ADVANCES ARE DIFFERENT THAN THE CONDITIONS SHOWN ON THE DESIGN DRAWINGS. THE CONTRACTOR
- SHALL STOP WORK AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER.
- 13. USE HAND TOOLS TO EXCAVATE WITHIN 5-FT OF UNDERGROUND UTILITIES. 14. PROVIDE BLOCK OUTS USING HIGH DENSITY FOAM IN CONCRETE STRUCTURE WHERE SHORING STRUCTURE ELEMENTS PENETRATE NEW FOUNDATION WALL.
- 15. HAY OR FILTER FABRIC SHALL BE USED TO MINIMIZE MIGRATION OF FINES INTO THE EXCAVATION AREA.

SAFETY DURING EXCAVATION WORK

- 1. THESE DRAWINGS DO NOT ADDRESS SAFETY ISSUES RELATED TO THE EXCAVATION AND SHORING WORK. OTHERS SHALL BE RESPONSIBLE FOR SITE SAFETY AND PROVIDE A SAFETY PLAN CONFORMING TO OSHA AND ALL
- 2. THE CONTRACTOR SHALL PROVIDE BARRIERS AND FENCING AROUND SITE IN ADDITION TO PROTECTION FOR ALL ADJACENT SIDEWALKS AND ADJOINING PROPERTIES IN ACCORDANCE WITH THE BUILDING CODE OF NEW YORK STATE AND ALL APPLICABLE LAWS. 3. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR THE SAFETY OF
- ALL ADJACENT STRUCTURES. IF DAMAGE OCCURS TO ADJACENT BUILDING ELEMENTS DUE TO THE NEGLIGENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO RECTIFY ALL DAMAGE AND/OR REIMBURSE PROPERTY OWNERS FOR ANY AND ALL DAMAGES, TO THE SATISFACTION OF ALL CONCERNED PARTIES. 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONDITIONS OF
- PUBLIC AND WORKER SAFETY DURING EXECUTION OF THE WORK. THIS SHALL INCLUDE COMPLIANCE WITH CHAPTER 33 OF THE BUILDING CODE OF NEW YORK STATE: SAFEGUARDS DURING CONSTRUCTION, OSHA PART 1926, AND OTHER STATE AND LOCAL LABOR LAWS WHICH MAY GOVERN THIS TYPE OF WORK.
- 5. THE CONTRACTOR SHALL PROVIDE REGULAR, PERIODIC INSPECTIONS OF CONSTRUCTION OPERATIONS AS REQUIRED TO ENSURE ONGOING MAINTENANCE OF ALL SAFETY OPERATIONS AND EQUIPMENT. SUCH INSPECTIONS SHALL BE UNDERTAKEN BY AN AGENT OF THE CONTRACTOR WHO IS QUALIFIED TO EVALUATE SUCH OPERATIONS AND EQUIPMENT. THIS INSPECTOR SHALL PREPARE WRITTEN SAFETY REPORTS WHICH SHALL BE MAINTAINED AT THE JOB

SITE FOR REVIEW BY AUTHORITIES HAVING JURISDICTION.

OBSERVED MOVEMENTS OF THE SUPPORT OF EXCAVATION OR OTHER STRUCTURES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER.

SLAB ON GRADE NOTES:

- ALL SLAB ON GRADE SHALL BE POURED IN AN ALTERNATING STRIP SYSTEM TO ALLOW PROPER SHRINKAGE. POUR PANELS TO BE BOUNDED BY CONTROL JOINTS PER THE CONCRETE NOTE ON DWG. S1 OR AS SHOWN ON PLANS.
- CONTRACTOR MAY USE SAWED CONTROL JOINTS, SUBJECT TO
 - SPLICING OF ALL REINFORCEMENT SHALL COMPLY WITH LAP SPLICE CHART ON THIS SHEET
 - ALL CONCRETE SLAB ON GRADE SHALL BE 4000 PSI NORMAL WEIGHT CONCRETE. EXTERIOR CONCRETE SHALL HAVE 8% AIR ENTRAINMENT.
 - COORDINATE ALL SLABS WITH ARCHITECTURAL DETAILS, PAVING
 - SEE STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR ALL

REQUIREMENTS FOR CONCRETE & SUBGRADE.

CMU WALL CONSTRUCTION NOTES:

CMU WALLS ARE TO BE 12" INSULATED CMU BLOCKS. BASIS OF DESIGN IS KORFIL HI-R-H BLOCK MANUFACTURED BY CONSTRUCTION PRODUCTS GROUP. REFER TO ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS FOR ADDITIONAL

- 2-#6 VERT BARS AT EACH END OF WALL 3-#6 BARS AT CMU WALL CORNER
- #6@16"o.c. BETWEEN CORNERS & WALL ENDS
- 4. ALL CMU CELLS TO BE GROUTED SOLID 4.1. LIFTS NOT TO EXCEED 8 FT. HEIGHTS

4.2. PROVIDE CLEAN OUTS.

5. 9 GA. GALVANIZED LADDER JOINT TIES SPACED @ 16"o.c. ALONG HEIGHT OF

UNLESS NOTED ON PLAN OR SCHEDULE, PROVIDE 8" BOND BEAM WITH 2-#5 HORIZONTAL OVER ALL WALL OPENINGS. PROVIDE CONTINUOUS BOND AROUND THE PERIMETER OF THE BUILDING AT THE FOLLOWING LOCATIONS, ELEVATIONS PROVIDED REFERENCE THE

BOTTOM OF THE BOND BEAM: 8" DEEP BOND BEAM EL. +13'-0" 16" DEEP BOND BEAM EL. +22'-0" 8" DEEP BOND BEAM EL. +25'-4"

- 7.1. (2) 16" BOND BEAM LINTELS FOR OVERHEAD DOORS @ EL. +10'-8"
- 7.2. 8" BOND BEAMS AT ALL OTHER DOORS AND LOUVER OPENINGS.
- LAP SPLICE REBAR AT CORNERS.
- BEND & DWL BOND BEAM BARS INTO JAMB BLOCK @ ENDS OF WALLS FOR NON-CONTINUOUS BOND BEAMS

ROOF DESIGN LOADS:

- 1. DESIGN LOADS SHALL CONFORM TO THE FOLLOWING:
- NEW YORK STATE BUILDING CODE, 2020
- ANSI/ASCE 7-10 MIN. DESIGN LOADS FOR 1.3. BLDGS. & OTHER STRUCTURES. LIVE LOAD:
- COLLATERAL PSF 3. SNOW LOAD:

GROUND SNOW LOAD

CT=1.1 4. WIND LOAD: RISK CATEGORY

WIND BASIC SPEED SEISMIC DESIGN:

ROOF

SITE CLASS C $S_s = 0.285$ $S_1 = 0.061$ $F_a = 1.3$ $F_{V} = 1.5$

20 PSF

30 PSF:

133 MPH

 $S_{MS} = 0.371$ $S_{M1} = 0.091$ $S_{DS} = 0.247$ $S_{D1} = 0.061$ SEISMIC DESIGN CATEGORY = C (BASED ON RISK CATEGORY IV)

WESTCHESTER COUNTY, NEW YORK RECORD DRAWING CERTIFICATION NUMBER DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION | 22-522 A-501 DIVISION OF ENGINEERING SHEET NO. 40 OF 61 PROJECT COORDINATOR SCALE: **as shown** DOMESTIC WATER SYSTEM IMPROVEMENTS. WESTCHESTER COUNTY AIRPORT PATE: 12/09/2022 TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK ARCHITECTURAL 48-17-A-165 BACKFLOW PREVENTER BUILDING STRUCTURAL NOTES DATE

D&B ENGINEERS AND ARCHITECTS WHITE PLAINS, NEW YORK 10604

(914) 467-5300

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REVISION |

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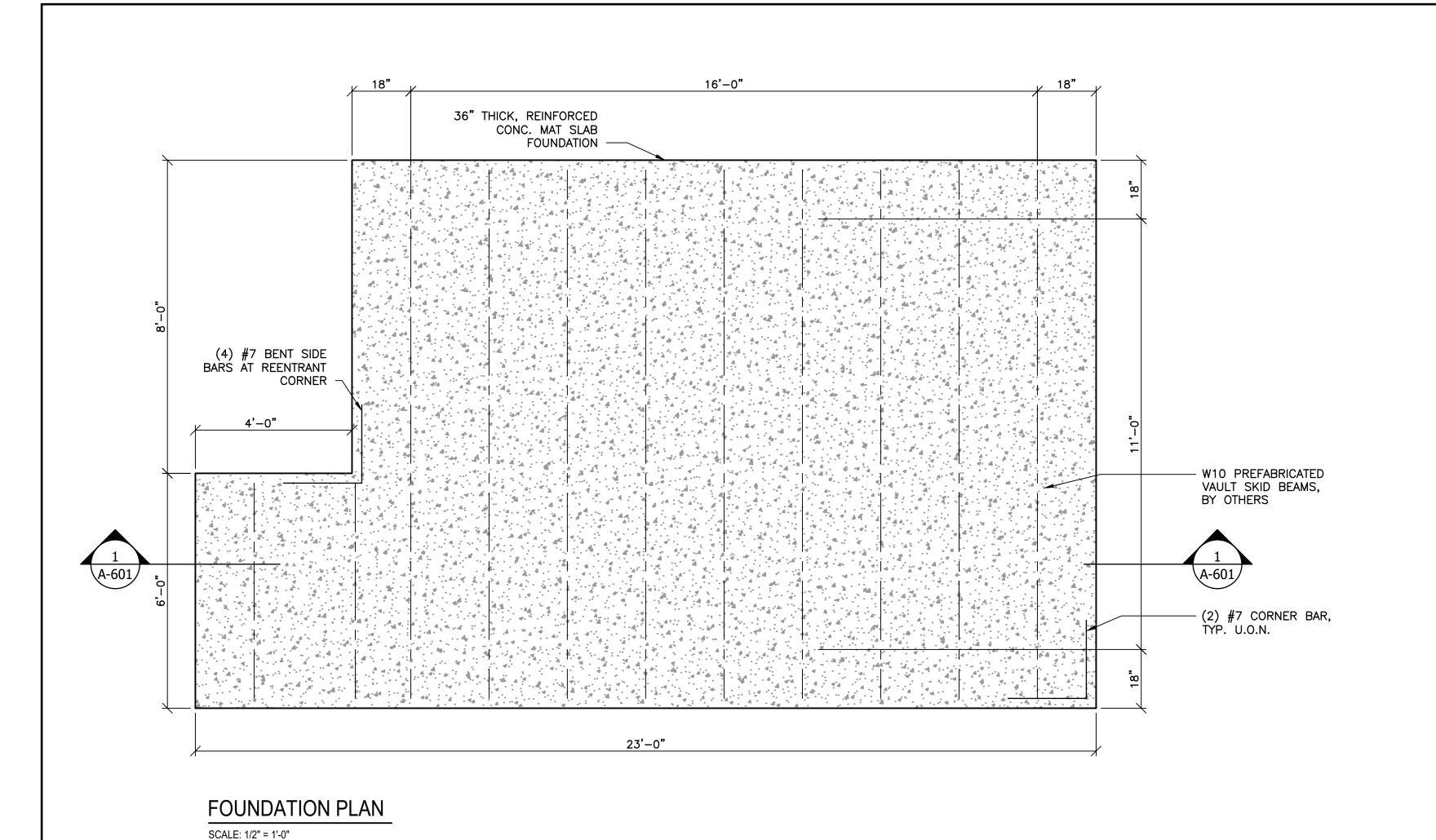
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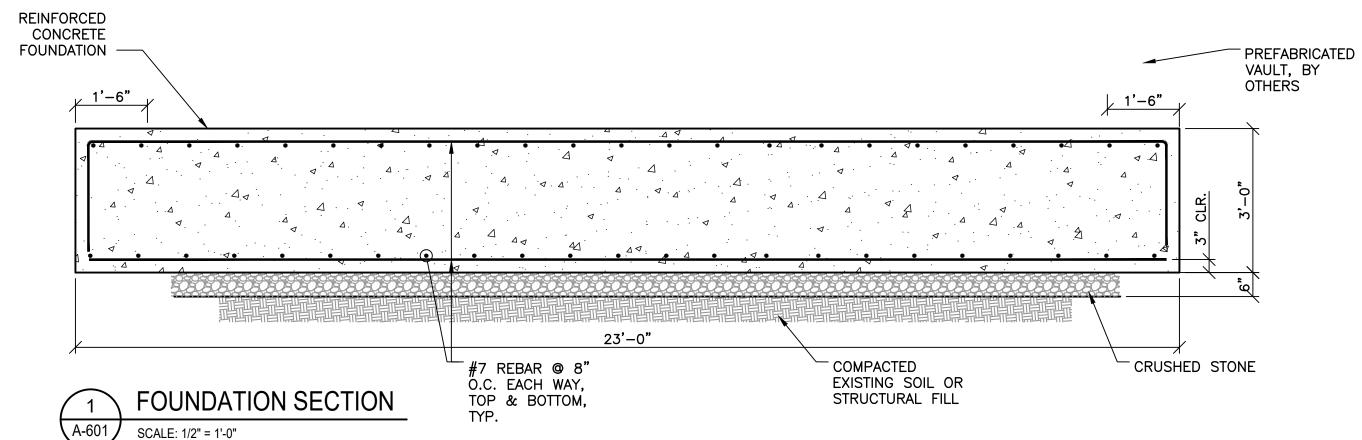
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AS BUILT - CHANGES AS NOTED AS BUILT - NO CHANGES CONTRACTOR

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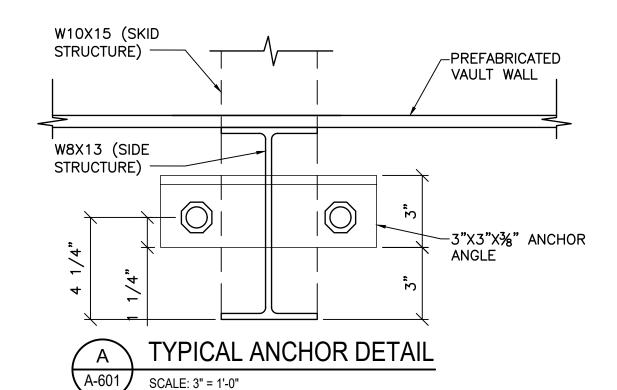
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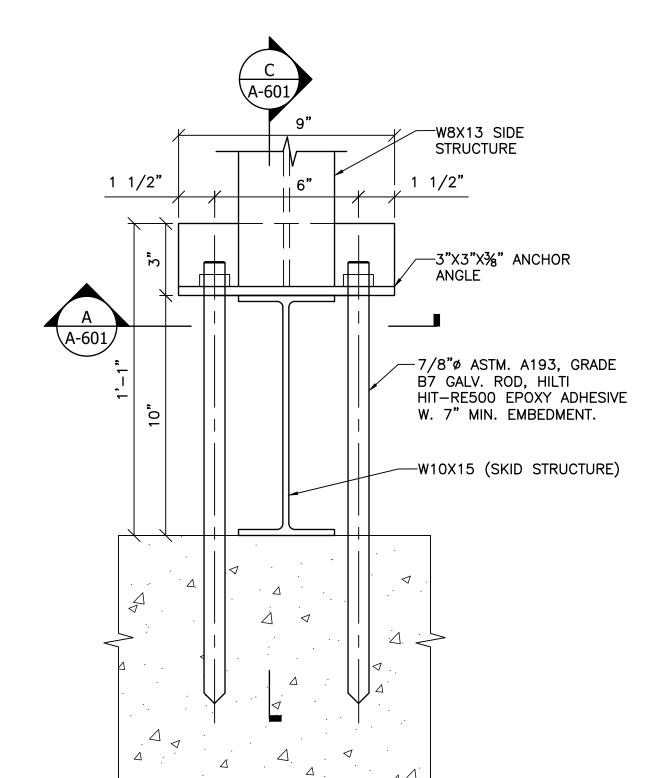


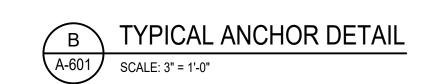


EXCAVATION NOTES:

- 1. CONTRACTOR SHALL PERFORM ALL EXCAVATION IN ACCORDANCE WITH STATE, LOCAL AND FEDERAL REQUIREMENTS INCLUDING OSHA BRACING AND EXCAVATION REQUIREMENTS.
- 2. TEMPORARY SHEETING AND BRACING IS NOT SHOWN ON CONTRACT DRAWINGS. ALL EXCAVATIONS WITH A POTENTIAL FOR CAVE—IN SHALL BE PROVIDED WITH EXCAVATION PROTECTION SYSTEMS IN ACCORDANCE WITH OSHA 1926. SLOPING AND BENCHING WHICH WILL ENCROACH ON AREAS SLATED TO REMAIN ACCESSIBLE OR THAT MAY ENCROACH ON EXISTING FOOTINGS AND STRUCTURES SHALL NOT BE PERMITTED.
- 3. CONTRACTOR SHALL ENGAGE THE SERVICES OF A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK TO DESIGN ALL TEMPORARY SHEETING AND BRACING AND RELATED APPURTENANCES. CONTRACTOR TO SUBMIT SUCH PLANS TO ENGINEER FOR INFORMATION.
- 4. ALL SHEETING SHALL BE WATER TIGHT TO MINIMIZE GROUNDWATER INFILTRATION.







FOUNDATION NOTES:

1. FOUNDATION DESIGN BASED ON GEOTECHNICAL REPORT

NOT BE USED AS STRUCTURAL BACKFILL.

- 2. FOUNDATION DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 1.5 TON PER SQUARE FOOT (TSF) AND A MODULUS OF SUBGRADE REACTION OF 125 POUNDS PER CUBIC INCH (PCI).
- 3. CONCRETE SHALL BE 4000 PSI, NORMAL WEIGHT STONE CONCRETE. MIX PER ACI 318 & PROJECT SPECIFICATIONS.
- 4. REINFORCING SHALL BE ASTM A-615, GRADE 60 DEFORMED BARS. REFER TO PROJECT SPECIFICATIONS FOR ALL ADDITIONAL CONCRETE REQUIREMENTS.
- 5. CONCRETE MAT SLAB FOUNDATION SHALL BE SUPPORTED ON 12-INCH CRUSHED STONE DRAINAGE LAYER OVER EXISTING MEDIUM DENSE SAND AND GRAVEL LAYER WITH WEATHERED
- 6. EXCAVATE FOR VAULT PLUS 12-INCHES MINIMUM ADDITIONAL DEPTH BELOW MAT SLAB. ANY COBBLES OR BOULDERS ENCOUNTERED DURING WATERLINE, VAULT OR FOOTING CONSTRUCTION SHOULD BE REMOVED SO THAT NO PART PROTRUDES INTO THE BOTTOM OR SIDES OF THE EXCAVATIONS. IF ORGANIC SOILS ARE ENCOUNTERED THEY SHOULD BE REMOVED COMPLETELY FROM THE LIMITS OF THE EXCAVATION OR BENEATH THE FOOTINGS. ORGANIC SOILS SHOULD
- 7. ALL LOOSENED SOIL PRESENT AT THE BOTTOMS OF EXCAVATIONS SHOULD BE COMPACTED USING A TRENCH COMPACTOR (EX. RAMMAX), JUMPING JACK, OR SIMILAR VIBRATORY COMPACTOR. SUCH COMPACTION SHOULD CONTINUE JUST UNTIL THE REQUIRED NUMBERS OF PASSES AND ALL VISIBLE SETTLEMENT IS COMPLETE TO PREVENT POSSIBLE PUMPING OF THE SUBGRADE DURING TIMES OF WET WEATHER OR SHALLOW GROUNDWATER.
- 8. GROUNDWATER TABLE (GWT) HAS BEEN RECORDED AT 5-FOOT BELOW GRADE IN THE VICINITY OF THE NEW CONSTRUCTION. ON SITE MONITORING SHOWS THAT THE GWT VARIES SIGNIFICANTLY ON A WEEKLY BASIS DUE TO UNDERLYING SITE AND GEOLOGIC CONDITIONS, INCLUDING AN IMPERMEABLE SLOPE BEDROCK FORMATION RECORDED AT ±16-FOOT BELOW GRADE
- 9. CONSTRUCTION OF VAULT SLAB WILL REQUIRE TEMPORARY DEWATERING AND LATERAL SOIL SHORING DESIGN. CONTRACTOR'S ENGINEER SHALL PROVIDE NYS PE SIGNED AND SEALED DRAWINGS AND CALCULATIONS PER PROJECT SPECIFICATIONS. DESIGN SHALL BE BASED ON THE FOLLOWING CRITERIA:
- 9.1. LATERAL DESIGN:

MOIST UNIT WEIGHT OF SOIL: = 120 PCF ANGLE OF INTERNAL FRICTION = 32° LATERAL EARTH PRESSURE COEFFICIENTS: ACTIVE K_{α} = 0.31 PASSIVE, K_{p} = 3.25 AT-REST, K_{o} = 0.47

COEFF. OF FRICTION (SLIDING) = 0.40 (STEEL ON SAND & GRAVEL)

9.2. SEISMIC DESIGN:

SITE CLASS C $S_8 = 0.285$ $S_1 = 0.061$ $F_0 = 1.3$ $F_V = 1.5$ $S_{MS} = 0.371$ $S_{DS} = 0.247$ $S_{D1} = 0.061$ SEISMIC DESIGN CATEGORY = C (BASED ON RISK CATEGORY IV)

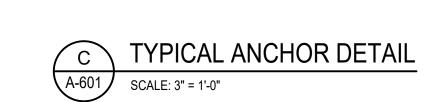
PREFABRICATED VAULT WALL

3" 3" 3" 3" 3.5"X3.5" CUT-OUT IN W-BEAM

W8X13 SIDE STRUCTURE

1 1/4" 3"X3"X%" ANCHOR ANGLE

7/8"¢ ASTM. A193, GRADE B7 GALV. ROD, HILTI HIT-RE500 EPOXY ADHESIVE W. 7" MIN. EMBEDMENT.



D&B ENGINEERS AND ARCHITECTS
WHITE PLAINS, NEW YORK 10604

(914) 467-5300

CONSULTANT SEAL

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RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED

AS BUILT - NO CHANGES

CONTRACTOR

PROJECT COORDINATOR

NAME

SIGNATURE

SIGNATURE

TITLE

DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK
ARCHITECTURAL

CONTRACT NUMBER
22-522
SHEET NO.

SCALE: AS DATE: 12/DPW FILE N

VAULT FOUNDATION

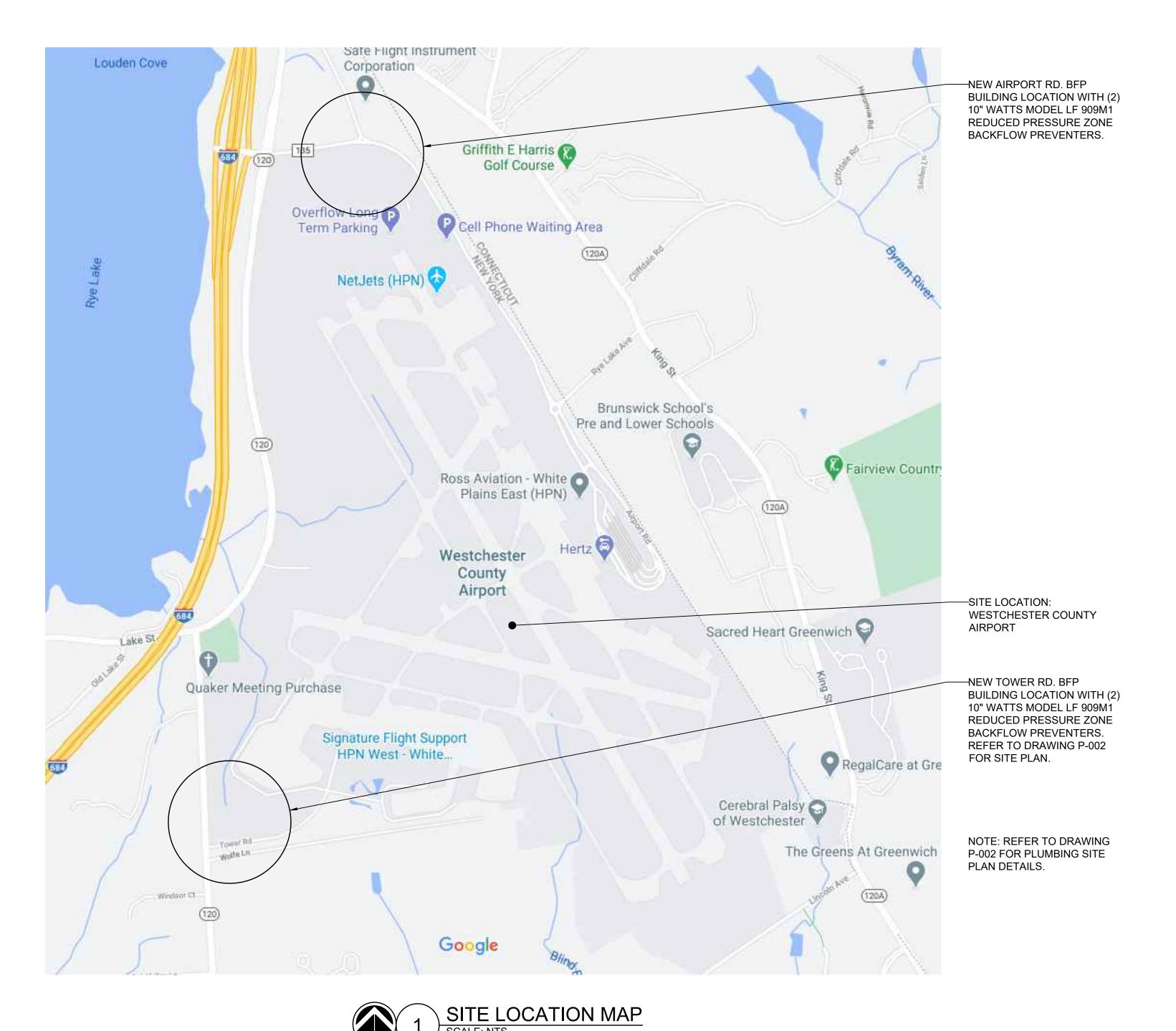
CONTRACT NUMBER

22-522 A-601

SHEET NO. 41 OF 61

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DATE: 12/09/2022

DPW FILE NO. REV. NO. 48-17-A-166 0



SYMBOLS AND ABBREVIATIONS						
SYMBOL	ABBREVIATION	DESCRIPTION				
	EX.	EXISTING TO REMAIN				
	NEW	NEW WORK				
	DEM.	EXISTING TO BE REMOVED				
	CW	COLD WATER				
_	AFF	ABOVE FINISHED FLOOR				
_	BFP	BACK FLOW PREVENTER				
_	DCV	DOUBLE CHECK VALVE				
_	DN.	ELBOW DOWN				
_	MAX.	MAXIMUM				
_	MIN.	MINIMUM				
_	PC	PLUMBING CONTRACTOR				
_	RPZ	REDUCED PRESSURE ZONE				
_	TYP	TYPICAL				
>	-	DIRECTION OF FLOW				
_	WCA	WESTCHESTER COUNTY AIRPORT				
_	WJWW	WESTCHESTER JOINT WATER WORKS				

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EQUIPMENT NOTES:

1. 10" BACKFLOW PREVENTER ASSEMBLY (TYPICAL FOR 4 BACKFLOW PREVENTER DEVICES - PRIMARY & SECONDARY): SHALL BE WATTS MODEL LF909M1 REDUCED PRESSURE ZONE ASSEMBLY LEAD FREE. ASSEMBLY SHALL BE SUITABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 110°F. THE ASSEMBLY SHALL CONSIST OF A PRESSURE DIFFERENTIAL RELIEF VALVE LOCATED IN A ZONE BETWEEN TWO POSITIVE SEATING CHECK VALVES AND CAPTURED SPRINGS. BACKSIPHONAGE PROTECTION SHALL INCLUDE PROVISION TO ADMIT AIR DIRECTLY INTO THE REDUCED PRESSURE ZONE VIA A SEPARATE CHANNEL FROM THE WATER DISCHARGE CHANNEL. THE ASSEMBLY SHALL INCLUDE TWO TIGHTLY CLOSING SHUTOFF VALVES BEFORE AND AFTER THE VALVE AND TEST COCKS. THE ASSEMBLY SHALL INCLUDE TWO RESILIENT OS&Y SEATED SHUTOFF VALVES & FOUR BALL TYPE TEST COCKS. UL, FM APPROVED BACKFLOW PREVENTERS SHALL INCLUDE UL/FM APPROVED OSY GATE VALVES.

2. 10" WATER METER SHALL BE SENSUS OMNI+FIRELINE F2

- NSF/ANSI STANDARD 61, • STRAINER: UL LISTED/FM APPROVED, FIRE RATED, SENSUS V SHAPED
- UNIT OF MEASURE SHALL BE HUNDREDS OF CUBIC FEET
- REMOTE READING SYSTEM.
- CONTRACTOR SHALL PROVIDE ALL ASSOCIATED COMPONENTS FOR REMOTE READING SYSTEM INCLUDING EXTERIOR WALL MOUNTED RADIO TRANSMITTER SENSUS SMARTPOINT 510M, 3-WRIE, DUAL PORT AND ALL ASSOCIATED WIRING.
- NOTE: FINAL WATER METER SIZE, MODEL, AND DIMENSIONS SHALL BE REVIEWED AND APPROVED BY THE WESTCHESTER JOINT WATER WORKS PRIOR TO INSTALLATION. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND INSTALLATION AND ALL RELATED WATER DEPARTMENT FEES.
- 3. LEAK DETECTION: SHALL BE SIMILAR TO LIEBERT LIQUI-TECT POINT LEAK-DETECTION SENSOR MODEL #: LT410 MOUNTED ON FLOOR OF ROOM. EXTERNAL POWER AND CONTROL WIRING ON FLOOR SHALL BE PROTECTED WITH CABLE PROTECTOR SYSTEM. PROVIDE OUTPUT TO REMOTE MONITORING SYSTEM.

PROPOSED PHASING NOTES

- EXISTING BFP BUILDING AT TOWER ROAD TO REMAIN ACTIVE AS WESTCHESTER COUNTY AIRPORT'S PRIMARY WATER SUPPLY.
- CONSTRUCT NEW BFP BUILDING AT TOWER ROAD & AIRPORT ROAD. VALVE & CAP NEW 12" UNDERGROUND PIPING UNTIL NEW 12" UNDERGROUND WATER MAIN IS INSTALLED. CONNECTION TO NEW 12' UNDERGROUND WATER MAIN SHALL NOT BE COMPLETED UNTIL CERTIFICATE OF COMPLETION IS PROVIDED BY WC DOH.
- PRESSURE TEST AND DISINFECT THE NEW PIPING.
- 4. ENERGIZE THE NEW 12" WATER SERVICE PIPING.
- 5. DEMOLISH EXISTING BACKFLOW PREVENTER BUILDING AT TOWER RD.

NOTE: REFER TO CIVIL DRAWINGS FOR ADDITIONAL PHASING INFORMATION AND CONSTRUCTION SEQUENCE.

DATE

BUILDING INFORMATION

ADDRESS: 240 AIRPORT RD.

WHITE PLAINS NY, 10604

COUNTY: WESTCHESTER

GENERAL NOTES:

- 1. ADEQUATE HEAT AND LIGHT SHALL BE PROVIDED IN LOCATIONS WHERE BACKFLOW PREVENTERS ARE TO BE INSTALLED.
- 2. THE CONTRACTOR SHALL USE ONLY AMERICAN MADE, UL/FM APPROVED
- 3. NO WORK SHALL PROCEED WITHOUT WESTCHESTER JOINT WATER WORKS
- (WJWW) AND WESTCHESTER COUNTY DEPARTMENT OF HEALTH APPROVAL 4. BACKFLOW PREVENTER ARRANGEMENT SHALL NOT BE ALTERED WITHOUT PRIOR APPROVAL BY WESTCHESTER COUNTY DEPARTMENT OF HEALTH.
- 5. BACKFLOW PREVENTION SHALL BE PROTECTED FROM THE HIGHEST FLOOD
- 6. BY-PASSES AROUND BACKFLOW PREVENTER ASSEMBLY SHALL NOT BE PERMITIED.
- 7. BACKFLOW PREVENTER DEVICE SHALL BE TESTED INITIALLY AND ANNUALLY BY A CERTIFIED AND LICENSED TESTER. AT THE TIME OF INITIAL TESTING PART A AND B OF DOH 1013 FORM MUST BE COMPLETED, TEST RESULTS (FORM DOH 1013) SHALL BE FORWARDED TO THE WJWW WESTCHESTER COUNTY DEPARTMENT OF HEALTH, OWNER AND ENGINEER.
- 8. THE BACKFLOW PREVENTER SHALL BE REBUILT EVERY FIVE YEARS. 9. ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER AND
- ACCORDING TO DEPARTMENT OF PUBLIC WORKS REGULATIONS. 10. CONTRACTOR SHALL DISINFECT AND PRESSURE TEST BACKFLOW PREVENTER ASSEMBLY BEFORE PLACING IN SERVICE. DISINFECTION SHALL BE IN ACCORDANCE WITH AWWA STANDARD C651-05 WITH THE EXCEPTION OF SECTION 4.4.2.
- 11. CONTRACTOR SHALL ADEQUATELY SUPPORT ALL PIPING AND DEVICES. 12. WHERE THE DISTANCE BETWEEN THE WATER METER AND THE BACKFLOW PREVENTER ASSEMBLY IS GREATER THAN 10'-0". ALL EXPOSED PIPING SHALL BE STENCILED "FEED LINE TO BACKFLOW PREVENTER - DO NOT TAP" AT 5'-0" INTERVALS.

INSTALLATION NOTES:

- A. STRAINERS ARE RECOMMENDED PRIOR TO EACH BACKFLOW DEVICE ON NON-FIRE FIGHTING LINES ONLY. NO STRAINER IS TO BE USED ON A FIRE LINE WITHOUT INSURANCE UNDERWRITER APPROVAL.
- B. ASSEMBLIES SHOULD BE SPECIFIED AND INSTALLED WITH MANUFACTURER SUPPLIED VALVES.
- WATER LINES SHOULD BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF DEVICE TO PREVENT DEBRIS FOULING THE DEVICE CHECK VALVES.
- D. DEVICES MUST BE MOUNTED HORIZONTALLY UNLESS APPROVED FOR VERTICAL INSTALLATION.
- ASSEMBLIES SHOULD NOT BE INSTALLED IN AREAS CONTAINING CORROSIVE OR TOXIC GASES WHICH COULD RENDER THE DEVICE INOPERABLE.

NOTE: INSTALLATION SHALL BE IN ACCORDANCE WITH WESTCHESTER COUNTY DEPARTMENT OF HEALTH REQUIREMENTS.

SITE PLAN NOTES:

- BACKFLOW PREVENTERS ARE MINIMUM 1 FOOT ABOVE THE 100 YEAR FLOOD ELEVATION.
- 2. CATASTROPHIC DISCHARGE FLOWS TO NON-PEDESTRIAN TRAFFIC AREAS. REFER TO DRAWINGS & ENGINEER'S REPORT FOR CALCULATIONS.
- PIPING MATERIALS:

COMPLY WITH REQUIREMENTS FOR PIPING & FITTING MATERIALS AND JOINING METHODS FOR SERVICE PIPING. POTABLE-WATER PIPING AND COMPONENTS SHALL COMPLY WITH

NSF 61 ANNEX G. COMPLY WITH NSF STANDARD 372 FOR LOW LEAD.

DUCTILE-IRON SERVICE PIPE AND FITTINGS

MECHANICAL-JOINT, DUCTILE-IRON PIPE: AWWA C151/A21.51, WITH MECHANICAL-JOINT FLANGED ENDS. GASKETS, AND BOLTS: AWWA C111/A21.11, RUBBER GASKETS, AND STEEL BOLTS.

PIPE JOINING MATERIALS

PIPE-FLANGE GASKET MATERIALS: AWWA C110, RUBBER, FLAT FACE, 1/8 INCH THICK OR ASME B16.21, NONMETALLIC AND ASBESTOS FREE, UNLESS OTHERWISE INDICATED; FULL-FACE OR RING TYPE UNLESS OTHERWISE

METAL, PIPE-FLANGE BOLTS AND NUTS: ASME B18.2.1, CARBON STEEL UNLESS OTHERWISE INDICATED.

IRON GATE VALVES

CLASS 150, OS&Y, IRON GATE VALVES (LEAD FREE): STANDARD: MSS SP-70, TYPE I.

CWP RATING: 200 PSIG.

BODY MATERIAL: ASTM A 126, GRAY IRON WITH BOLTED BONNET.

ENDS: FLANGED. TRIM: BRONZE.

WESTCHESTER COUNTY, NEW YORK

DISC: SOLID WEDGE.

PACKING AND GASKET: ASBESTOS FREE.

PIPING INSULATION FOR COLD WATER FOR NPS 1-1/2 AND LARGER SHALL BE ONE OF THE FOLLOWING FOR FLUID OPERATING TEMPERATURE 40-60 DEG F:

CELLULAR GLASS: 1 INCH THICK FLEXIBLE ELASTOMERIC: 1 INCH THICK MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1 INCH THICK



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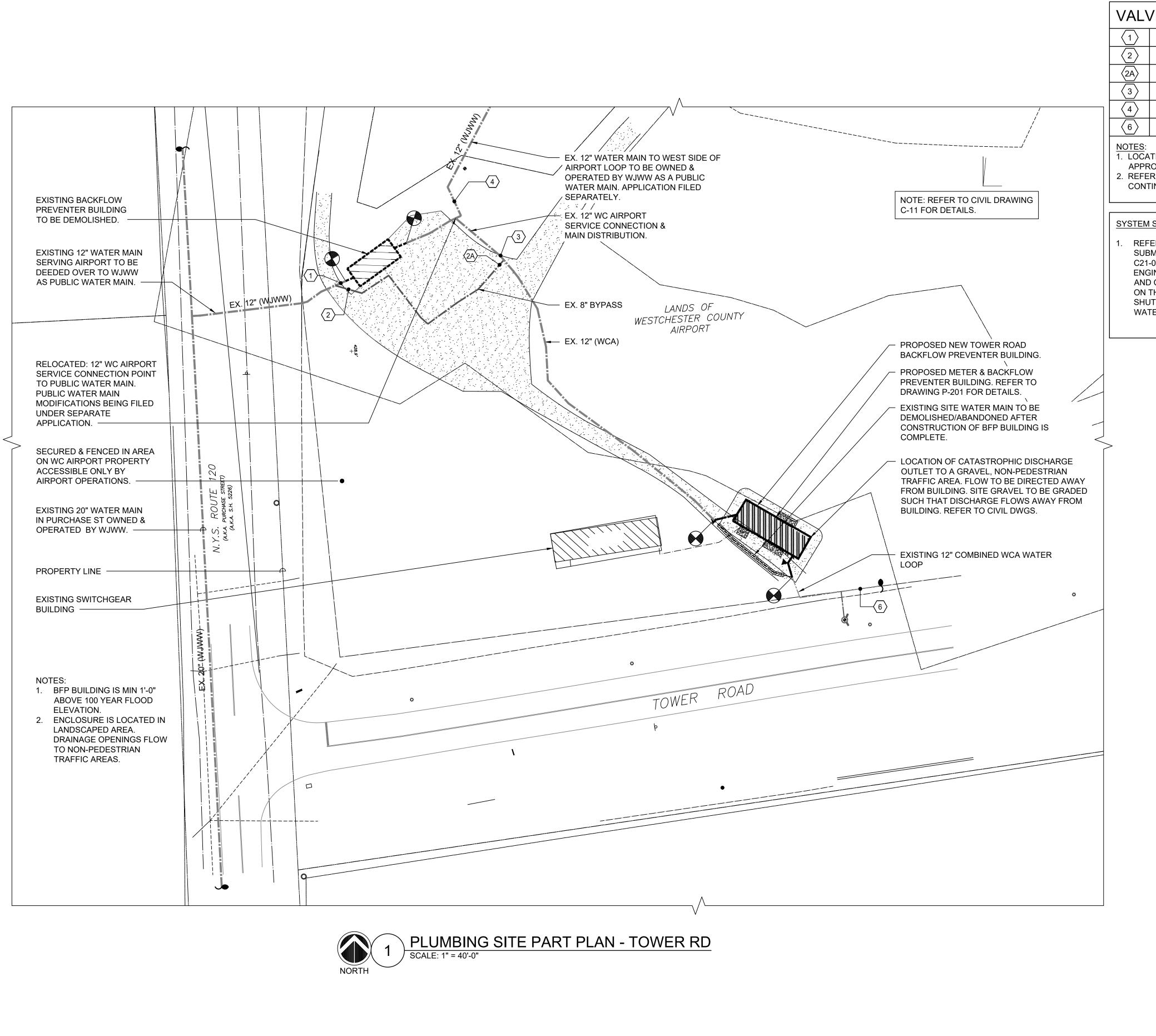
PROJECT COORDINATOR NAME SIGNATURE

DIVISION OF ENGINEERING DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK SYMBOLS, ABBREVIATIONS, & GENERAL NOTES

DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION 22-522 P-001 SHEET NO. 42 OF 61 SCALE: AS SHOWN DATE: 12/09/2022 DPW FILE NO. 48-17-P-167

NUMBER

NUMBER



VALVE TAG SCHEDULE EXISTING 12" VALVE **EXISTING 8" VALVE EXISTING 8" VALVE** EXISTING 12" VALVE

EXISTING 12" VALVE EXISTING 12" VALVE

1. LOCATIONS OF EXISTING VALVES ARE

- APPROXIMATE AND SHALL BE VERIFIED IN FIELD. 2. REFER TO SITE UTILITIES PLAN FOR
- CONTINUATION.

SYSTEM SHUTDOWN NOTE:

REFER TO WATER MAIN EXTENSION SUBMISSION FILED SEPARATELY: FILE ID: C21-033, C21-034 PREPARED BY D&B **ENGINEERS FOR ADDITIONAL SEQUENCING** AND CONSTRUCTION PHASING INFORMATION ON THE ANTICIPATED DURATION OF SHUTDOWN OF EXISTING SEGMENT OF WCA WATER LOOP APPROXIMATELY 6,000 LF.

CONSTRUCTION SEQUENCE

PHASE 1A (REFER TO CIVIL DRAWING G-01 FOR ADDITIONAL DETAILS):

CONSTRUCT NEW AIRPORT ROAD BACKFLOW PREVENTER BUILDING IN ACCORDANCE WITH WCDOH

APPROVED DOCUMENTS, REFER TO DRAWING P-003. CONSTRUCT NEW WATER MAIN EXTENSION TO NEW KING STREET. REFER TO CIVIL DRAWINGS FOR

PHASE 1B: CONSTRUCTION AND ACTIVATION OF NEW TOWER RD BACKFLOW PREVENTER BUILDING:

CONSTRUCT NEW TOWER ROAD BACKFLOW PREVENTER BUILDING. BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED ACCORDANCE WITH WCDOH APPROVED DOCUMENTS. PRESSURE TEST, DISINFECT, INSPECT AND SIGN OFF BFP INSTALLATION

SHUTDOWN THE SOUTH SERVICE CONNECTION AND CONSTRUCT 12" CONNECTIONS TO THE NEW TOWER ROAD BACKFLOW PREVENTER BUILDING TO TIE IN TO THE EXISTING WATER MAIN. THIS WORK SHALL BE COORDINATED WITH WC AIRPORT OPERATIONS AND WJWW TO MINIMIZE DOWNTIME.

CLOSE VALVE #3 AND VALVE #6.

VALVE #4 REMAINS OPEN TO SUPPLY WCA SERVICE LOOP.

PRESSURE TEST, DISINFECT, INSPECT AND SIGN OFF BFP INSTALLATION IN NEW TOWER ROAD BUILDING. FILE ALL FORMS AND RESULTS WITH WC DOH FOR APPROVAL

ISOLATE EXISTING TOWER ROAD BACKFLOW PREVENTER BUIDLING FOR DEMOLITION & RESTORE SOUTH SERVICE CONNECTION TO OPERATION:

OPEN NORMALLY CLOSED BYPASS VALVES #2 AND #2A. VALVE #3 REMAINS CLOSED

• CLOSE VALVE #1 AND #4 TO ISOLATE EXISTING WATERMAIN FOR BUILDING DEMOLITION.

OPEN VALVE #6.

• RESTORE WCA SOUTH SERVICE CONNECTION. WEST SIDE OF SERVICE LOOP IS ISOLATED.

PHASE 2: DEMOLISH EXISTING TOWER RD BACKFLOW PREVENTER BUILDING.

ABOVE. DEMOLISH EXISTING STRUCTURE, EQUIPMENT AND PIPING COMPLETE. CONSTRUCT THE UNDERGROUND 12" WATER MAIN BETWEEN THE INLET AND OUTLET PIPING OF THE

1. BUILDING DEMOLITION SHALL OCCUR UPON COMPLETION OF CONSTRUCTION OF THE WORK LISTED

DEMOLISHED BUILDING. TEST AND DISINFECT ALL NEW WATER MAINS IN ACCORDANCE WITH AWWA STANDARDS. FILE ALL FORMS AND RESULTS WITH WC DOH FOR APPROVAL.

PRESSURE TEST AND DISINFECT NEW PIPING AND FILE WITH WC DOH FOR APPROVAL.

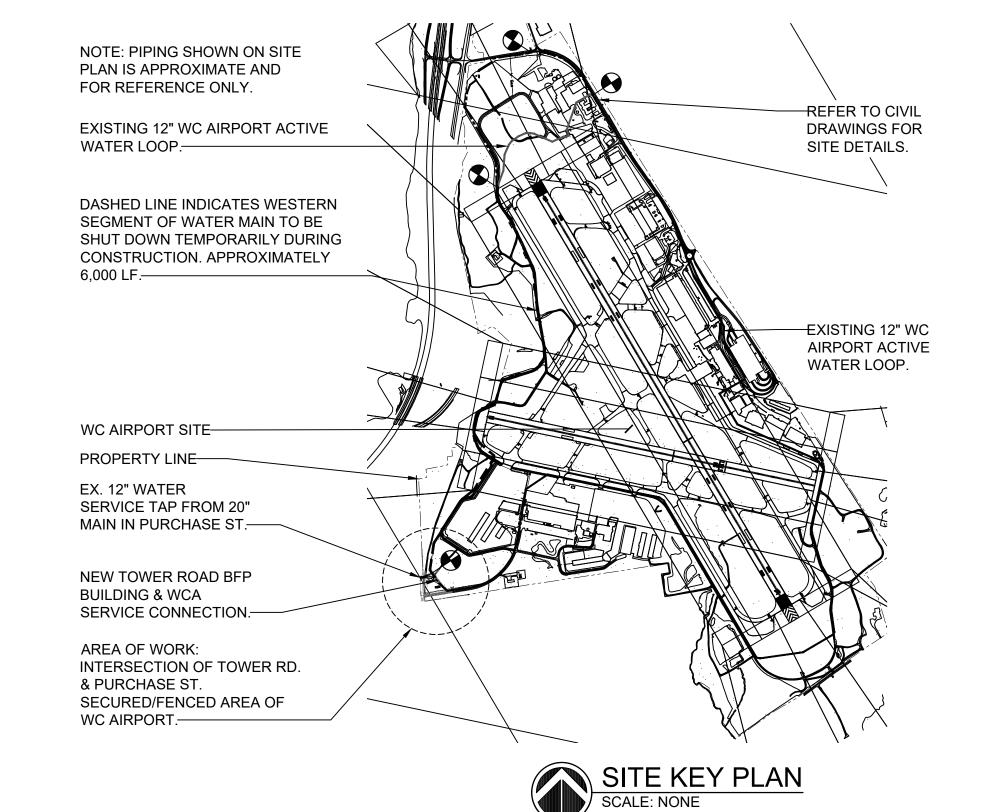
REFER TO CIVIL DRAWINGS AND SEQUENCE NOTES ON G-01 FOR INFORMATION ON SUBSEQUENT PHASES:

 PHASE 3: CONSTRUCTION OF EXISTING WATER SERVICE IMPROVEMENTS PHASE 4: ABANDON BY-PASS WATER MAIN PIPING AT TOWER ROAD

PHASE 5: TESTING OF WATER MAIN

PHASE 6: OPERATION OF ALL DOMESTIC WATER LINE IMPROVEMENTS

- REFER TO CIVIL DRAWING G-01 FOR CONSTRUCTION SEQUENCE COORDINATION. 2. EXISTING TOWER ROAD BACKFLOW PREVENTER BUILDING TO REMAIN ACTIVE AS WESTCHESTER COUNTY AIRPORT'S PRIMARY WATER SUPPLY UNTIL PROJECT COMPLETION INCLUDING CONSTRUCTION OF THE NEW TOWER ROAD AND AIRPORT ROAD BACKFLOW PREVENTER BUILDING AND WATER MAIN EXTENSION. REFER TO CIVIL DRAWINGS FOR WATER MAIN WORK AND WC DOH FILE ID: 13502-21-RPZ (2) AND C21-033, C21-034
- 3. EXISTING BFP BUILDING AT TOWER ROAD TO REMAIN ACTIVE CONSTRUCTION SHALL NOT PROCEED WITHOUT APPROVAL FROM WESTCHESTER COUNTY DEPARTMENT OF HEALTH.
- 4. SHUTDOWNS OF WATER MAIN SHALL BE SCHEDULED AND FULLY COORDINATED WITH WC AIRPORT, WESTCHESTER COUNTY DPW&T AND WESTCHESTER COUNTY DEPARTMENT OF HEALTH. NOTIFICATION FOR SHUTDOWN SHALL BE PROVIDED A MINIMUM OF SEVEN DAYS IN
- 5. INTENT OF CONSTRUCTION PHASING/SEQUENCE IS TO MINIMIZE SHUTDOWNS WC AIRPORT WATER SERVICE.



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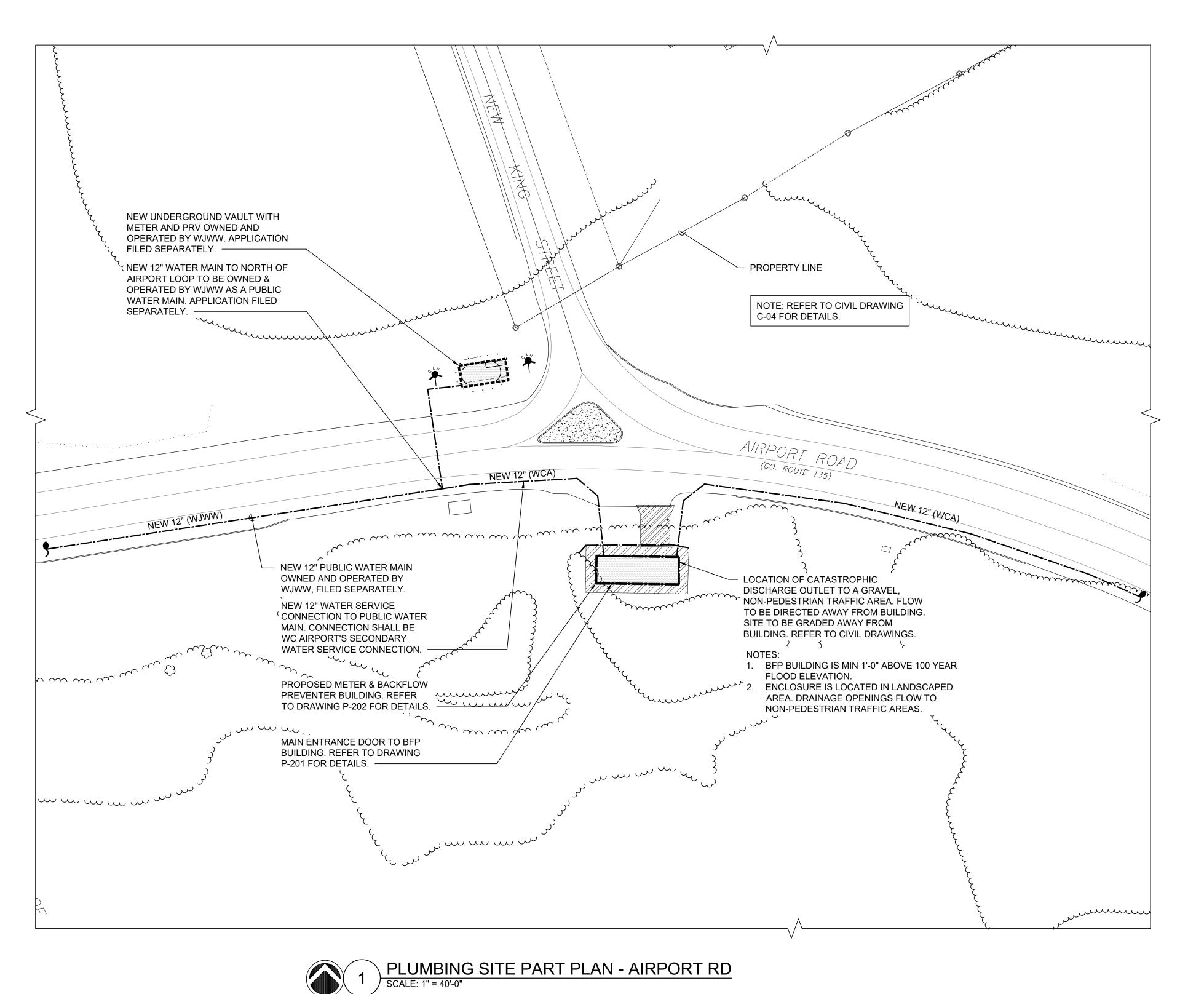
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION 22-522 DIVISION OF ENGINEERING OMESTIC WATER SYSTEM IMPROVEMENTS. WESTCHESTER COUNTY AIRPOR TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK PLUMBING SITE PLAN - TOWER ROAD 48-17-P-168

WESTCHESTER COUNTY, NEW YORK

SHEET NO. 43 OF 61 SCALE: AS SHOWN DATE: 12/09/2022

NUMBER

NUMBER



REVISION

CONSTRUCTION SEQUENCE

PHASE 1A: CONSTRUCTION OF NEW FACILITIES AT NORTH END OF PROJECT. REFER TO CIVIL DRAWING G-01 FOR ADDITIONAL INFORMATION.

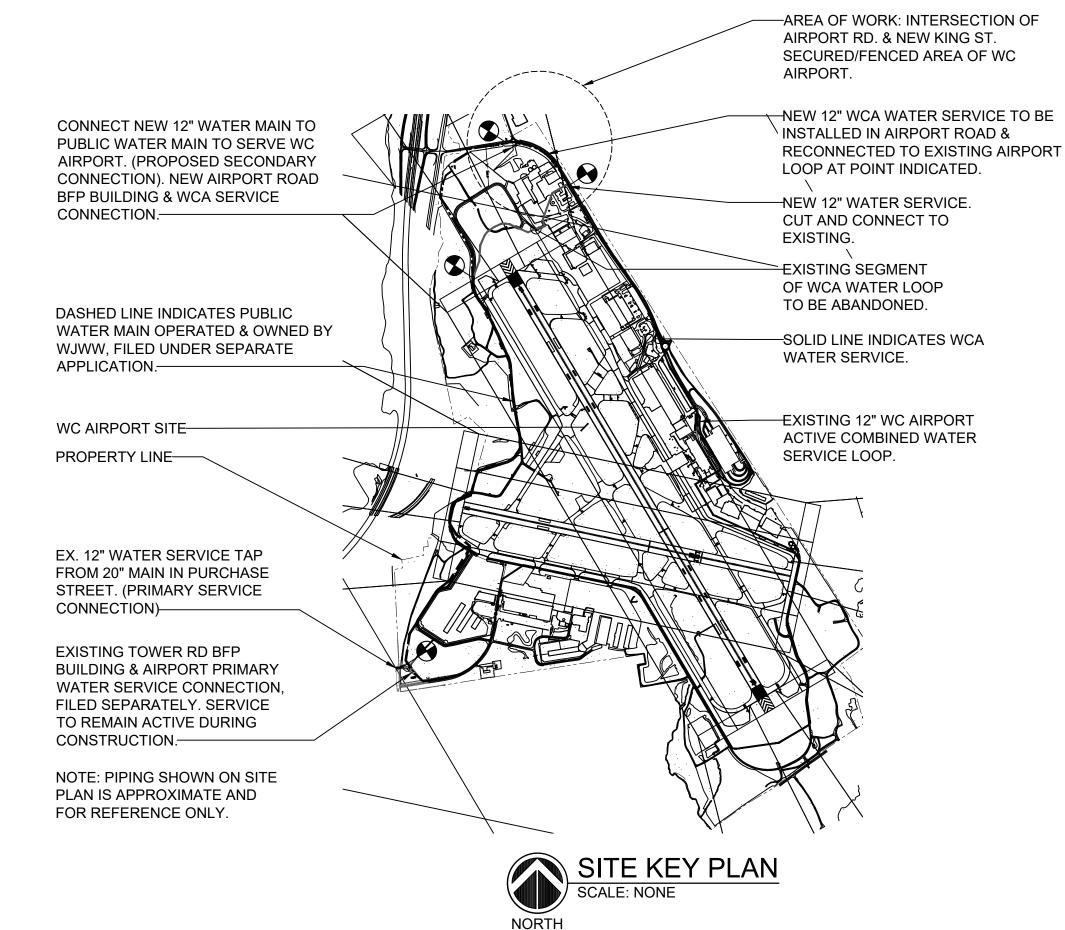
- 1. CONSTRUCT NEW AIRPORT ROAD BACKFLOW PREVENTER BUILDING IN ACCORDANCE WITH WCDOH APPROVED DOCUMENTS.
- 2. AIRPORT ROAD SERVICE CONNECTION SHALL NOT BE ENERGIZED UNTIL FINAL APPROVAL OF PUBLIC WATER MAIN. REFER TO FILE ID: C21-033, C21-034.
- 3. CONSTRUCT 12" CONNECTIONS TO EXISTING 12" WATER MAIN TO THE NEW AIRPORT ROAD BFP BUILDING.
- 4. PRESSURE TEST, DISINFECT, INSPECT AND SIGN OFF BFP INSTALLATION. FILE ALL FORMS AND RESULTS WITH WC DOH.
- 5. ENERGIZE THE NEW 12" WATER SERVICE PIPING TO THE NEW AIRPORT ROAD BFP BUILDING.

EXISTING TOWER RD BFP BUILDING SHALL BE MAINTAINED ACTIVE AS WESTCHESTER COUNTY AIRPORT'S PRIMARY WATER SUPPLY UNTIL CONSTRUCTION IS COMPLETED. TOWER ROAD BUILDING DEMOLITION SHALL OCCUR UPON COMPLETION OF CONSTRUCTION OF THE AIRPORT ROAD BACKFLOW PREVENTER BUILDING AND WATER MAIN EXTENSION IS COMPLETE. REFER TO FILE ID: 13503-21-RPZ (2) & C21-033, C21-034.

- CONSTRUCTION SHALL NOT PROCEED WITHOUT APPROVAL FROM WESTCHESTER COUNTY DEPARTMENT OF HEALTH.
- 3. SHUTDOWNS OF WATER MAIN SHALL BE SCHEDULED AND FULLY COORDINATED WITH WC AIRPORT, WESTCHESTER COUNTY DPW&T AND WESTCHESTER COUNTY DEPARTMENT OF HEALTH. NOTIFICATION FOR SHUTDOWN SHALL BE PROVIDED A MINIMUM OF SEVEN DAYS IN ADVANCE.
- 4. INTENT OF CONSTRUCTION PHASING/SEQUENCE IS TO MINIMIZE SHUTDOWNS WC AIRPORT WATER SERVICE.

SYSTEM SHUTDOWN NOTE:

REFER TO WATER MAIN EXTENSION SUBMISSION FILED SEPARATELY: FILE ID: C21-033, C21-034 PREPARED BY D&B ENGINEERS FOR ADDITIONAL SEQUENCING AND CONSTRUCTION PHASING INFORMATION ON THE ANTICIPATED DURATION OF SHUTDOWN OF EXISTING SEGMENT OF WCA WATER LOOP APPROXIMATELY 6,000 LF.





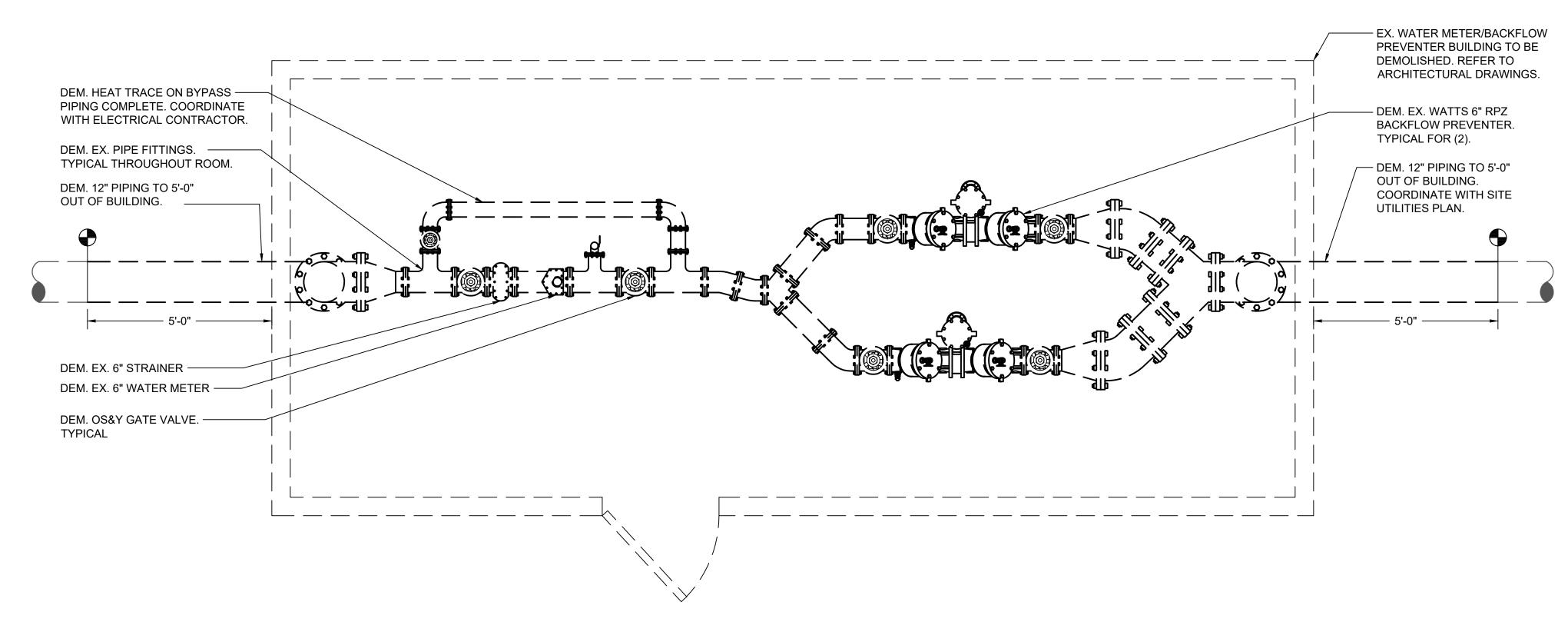
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	TITLE DATE	TITLE DATE	SITE PLAN — AIRPORT ROAD	48-17-P-	-169





PLUMBING DEMOLITION PLAN - TOWER RD

1. DEMOLISH ALL DOMESTIC COLD WATER PIPING, PIPE FITTINGS, VALVES, PIPING SUPPORTS COMPLETE. COORDINATE SHUTDOWN OF WATER SERVICE WITH

WESTCHESTER COUNTY AIRPORT AND WESTCHESTER JOINT WATER WORKS. 2. CONTRACTOR SHALL BE RESPONSIBLE FOR WATER METER READINGS PRIOR TO REMOVAL AND SHALL COORDINATE WITH WESTCHESTER JOINT WATER WORKS AS

3. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE EXISTING WATER METER AND RETURN TO WESTCHESTER JOINT WATER WORKS AS REQUIRED.

4. EXISTING TOWER ROAD BACKFLOW PREVENTER BUILDING TO REMAIN ACTIVE UNTIL CONSTRUCTION OF THE NEW TOWER ROAD BFP BUILDING, AIRPORT ROAD BFP BUILDING AND WATER MAIN EXTENSION IS COMPLETE.

5. EXISTING BFP BUILDING AT TOWER ROAD TO REMAIN ACTIVE AS WESTCHESTER COUNTY AIRPORT'S PRIMARY WATER SUPPLY UNTIL PROJECT COMPLETION.

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PROJECT COORDINATOR

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6. SHUTDOWNS OF WATER MAIN SHALL BE SCHEDULED AND FULLY COORDINATED WITH WC AIRPORT, WESTCHESTER COUNTY DPW&T AND WESTCHESTER COUNTY DEPARTMENT OF HEALTH. NOTIFICATION FOR SHUTDOWN SHALL BE PROVIDED A MINIMUM OF SEVEN DAYS IN ADVANCE.



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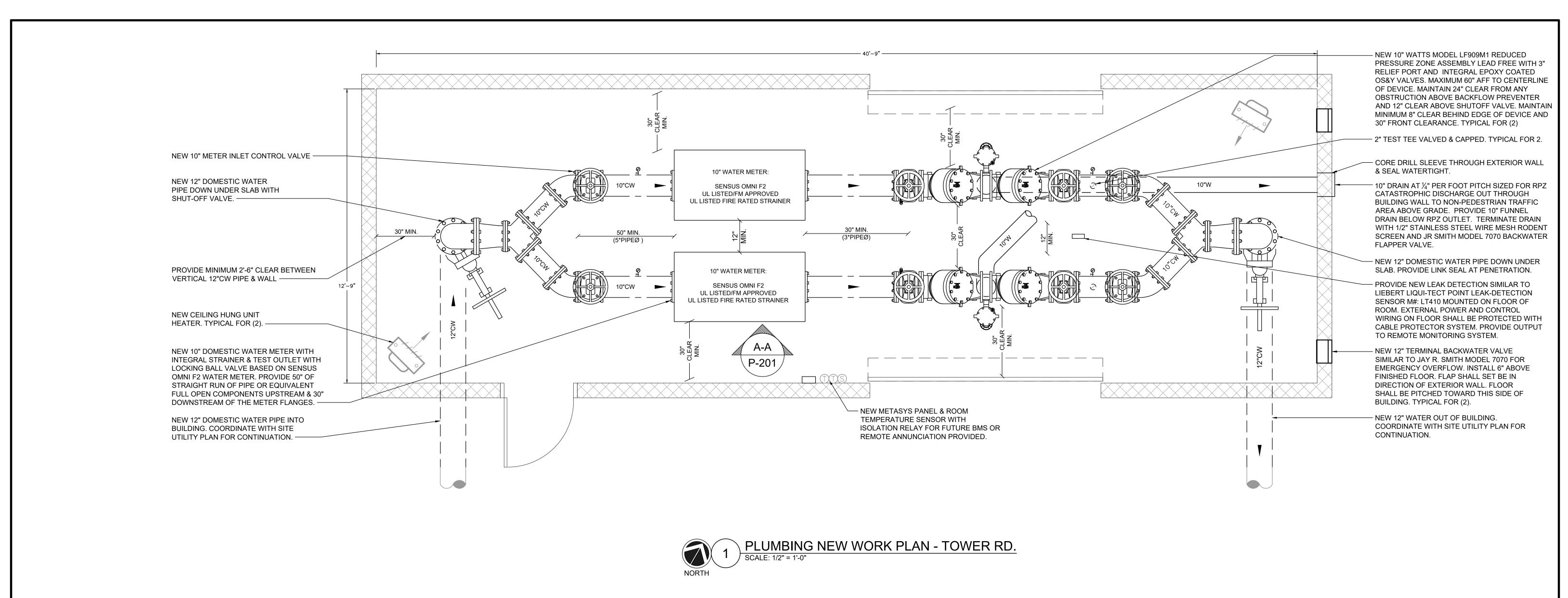
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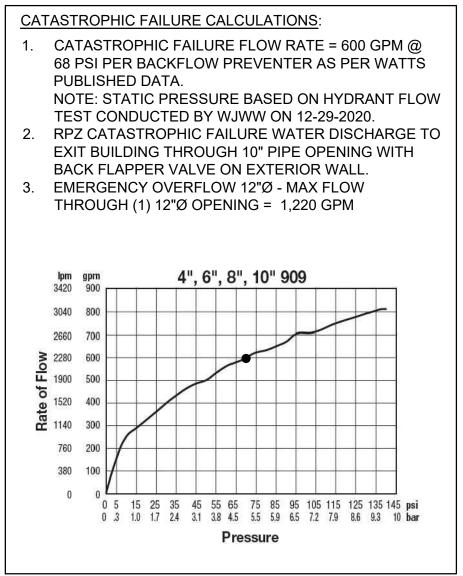
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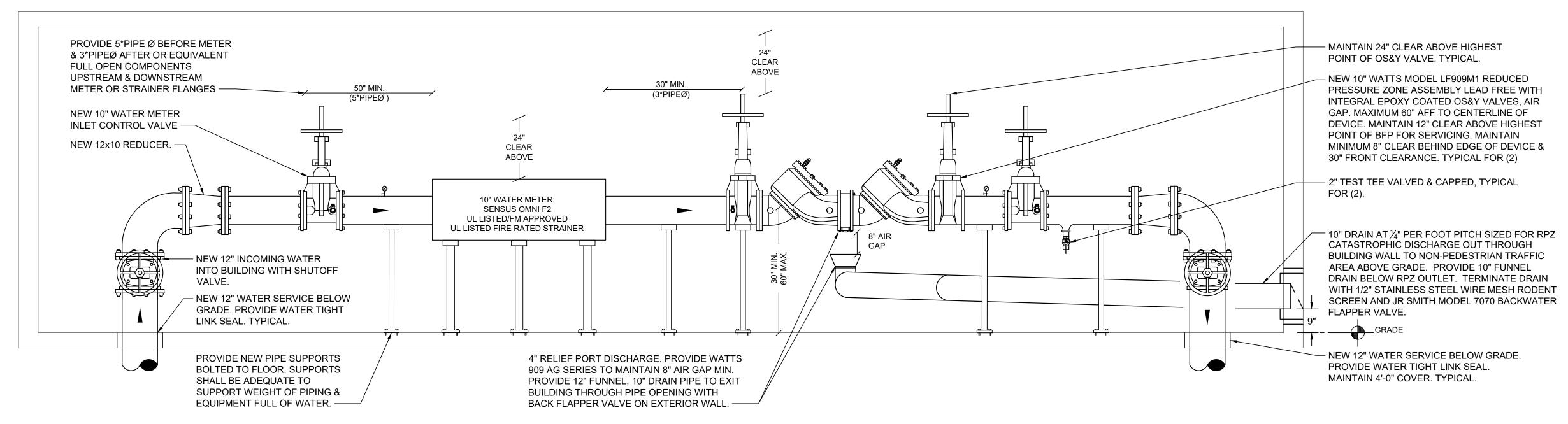
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DEMOLITION PLAN - TOWER RD

48-17-P-170









DATE



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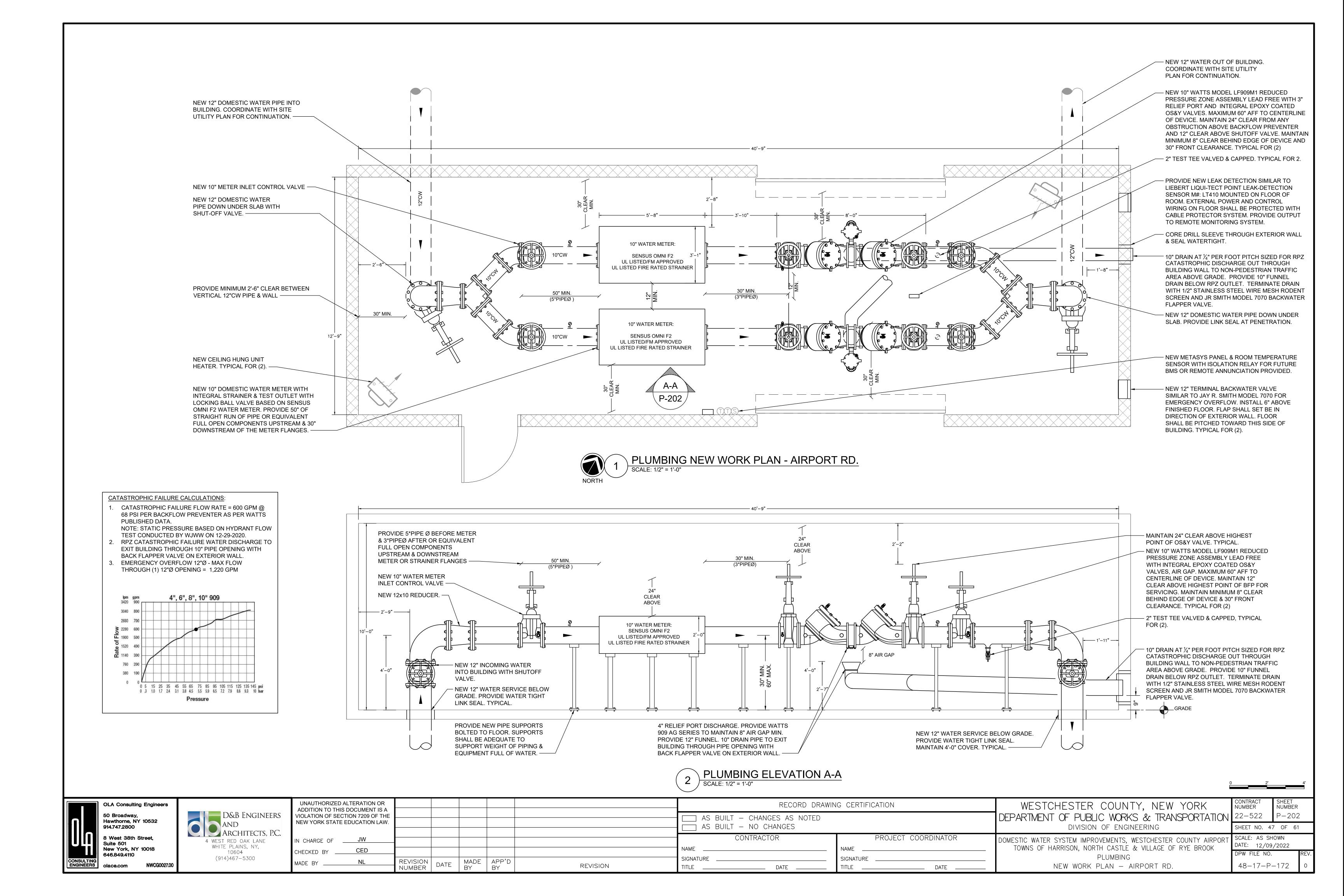
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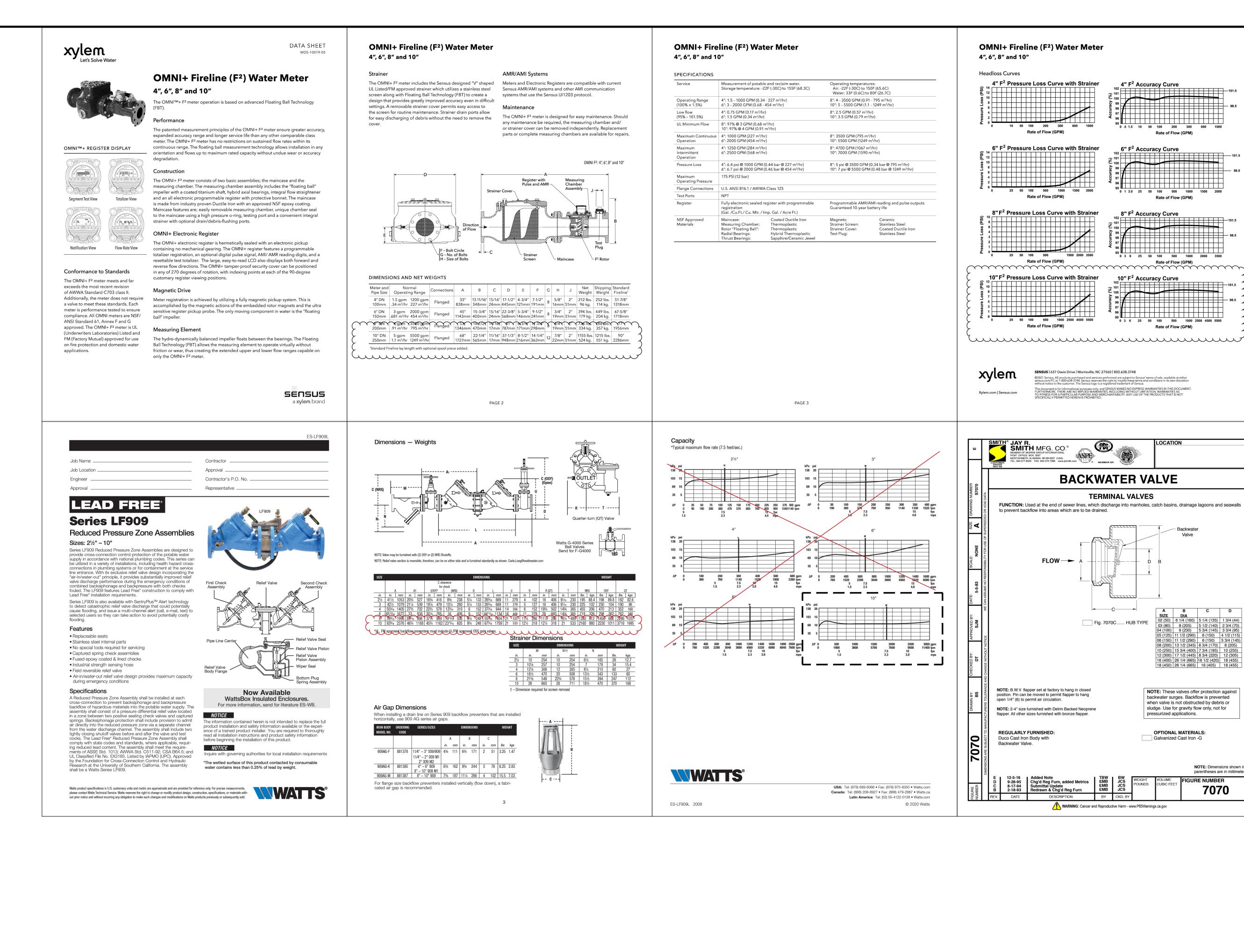
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NEW WORK PLAN - TOWER RD.

48-17-P-171

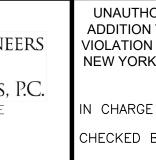






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WESTCHESTER COUNTY, NEW YORK NUMBER NUMBER DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION 22-522 P-301 DIVISION OF ENGINEERING SHEET NO. 48 OF 61 SCALE: AS SHOWN DOMESTIC WATER SYSTEM IMPROVEMENTS. WESTCHESTER COUNTY AIRPOR DATE: 12/09/2022 TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK PLUMBING EQUIPMENT SPECIFICATIONS 48-17-P-173

4" F² Accuracy Curve

6" F² Accuracy Curve

8" F² Accuracy Curve

TERMINAL VALVES

Fig. 7070C..... HUB TYPE

Rate of Flow (GPM)

Rate of Flow (GPM)

Rate of Flow (GPM)

Rate of Flow (GPM)

 SIZE
 DIA

 02 (50)
 6 1/4 (160)
 5 1/4 (135)
 1 3/4 (44)

NOTE: These valves offer protection against

NOTE: Dimensions shown in

parentheses are in millimeter

backwater surges. Backflow is prevented

when valve is not obstructed by debris or

sludge. Use for gravity flow only, not for

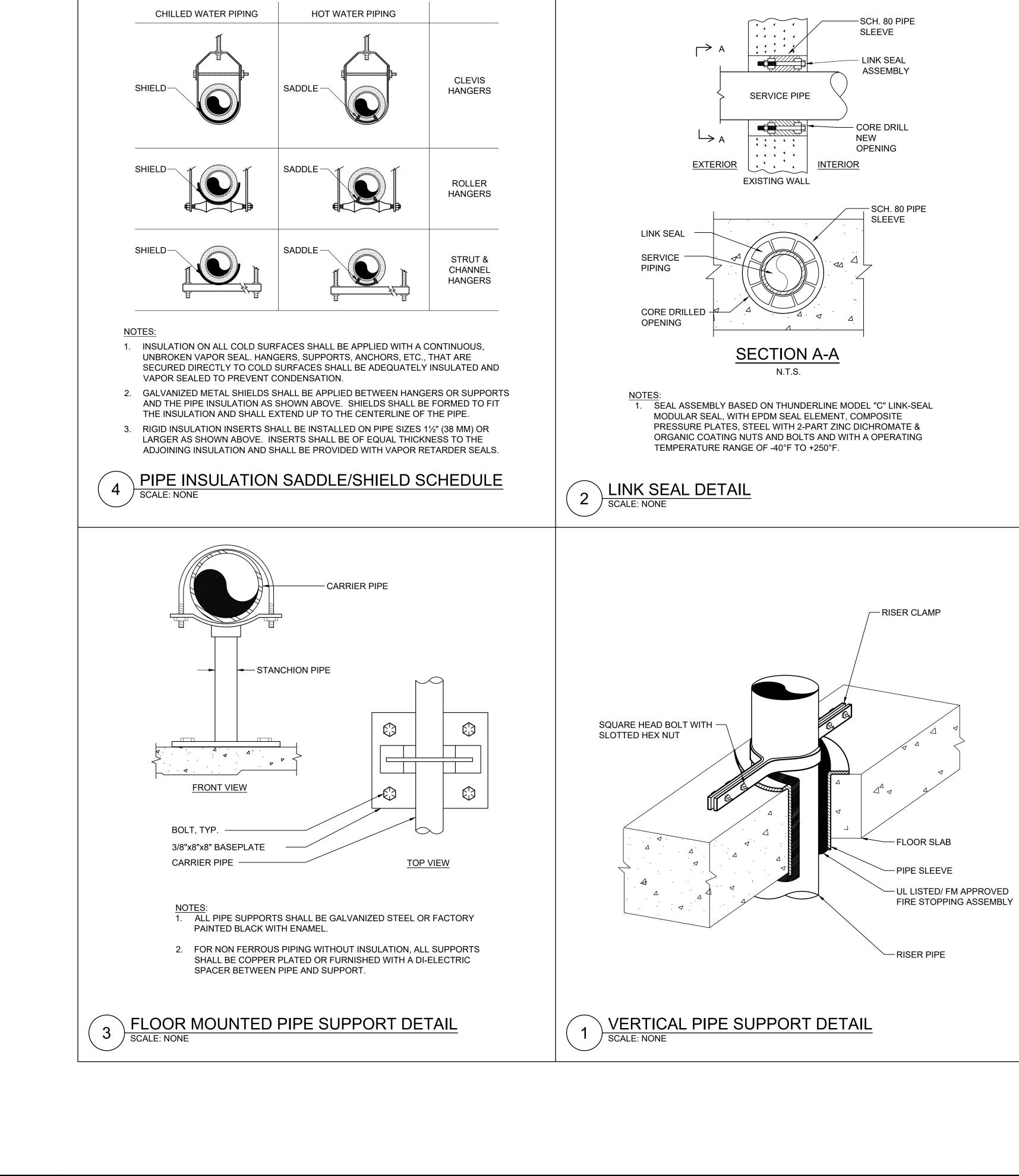
pressurized applications.

OPTIONAL MATERIALS:

Galvanized Cast Iron -G

101.5

101.5

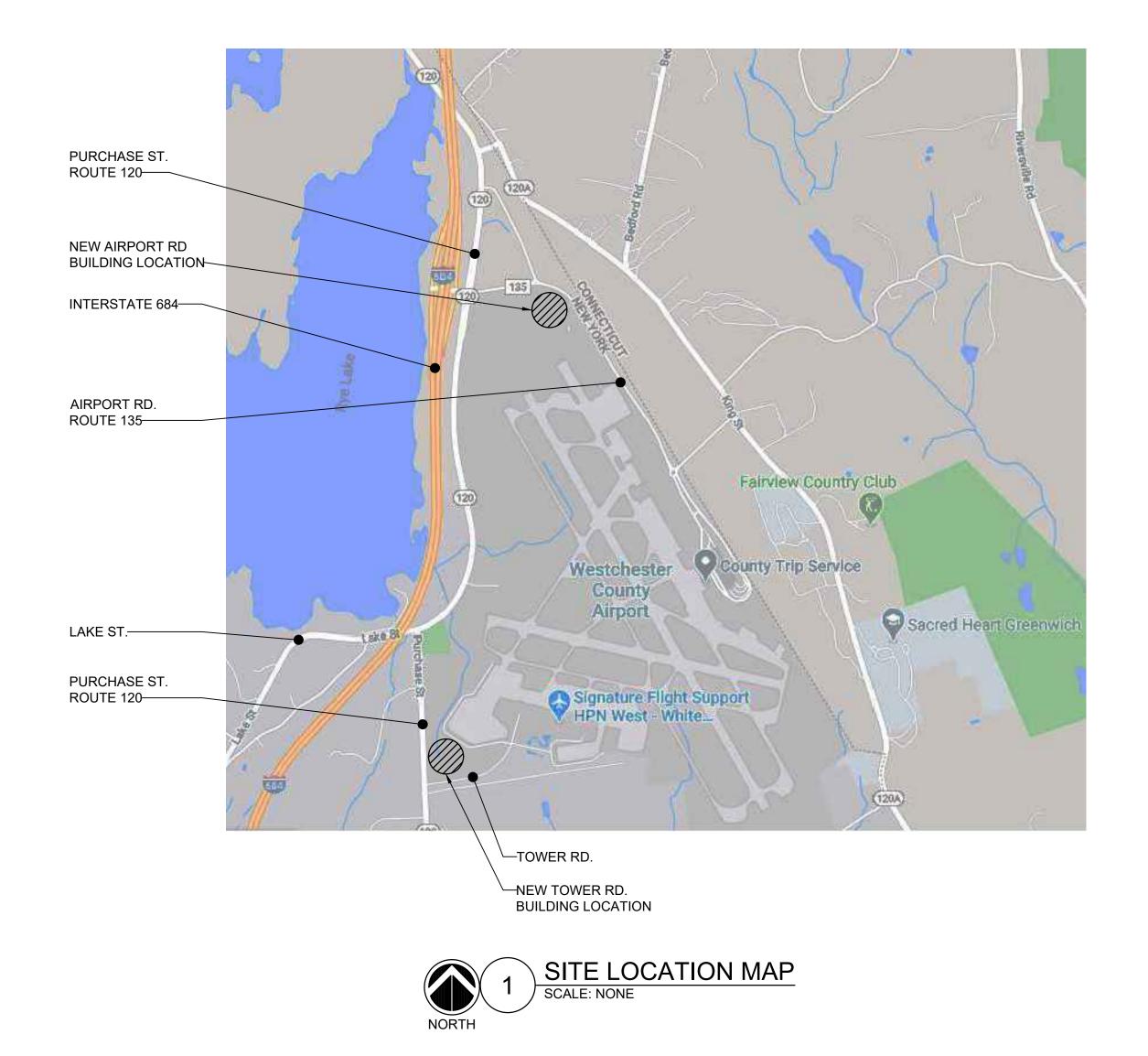




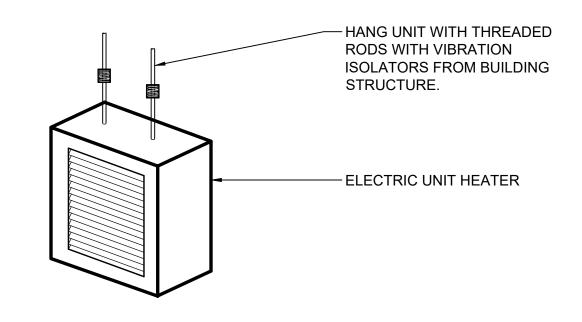


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VIOLATION OF SEC	CTION 7209 OF THE EDUCATION LAW.						AS AS
N CHARGE OF	JW						
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RECORD DRAWIN	IG CERTIFICATION	WESTCHESTER COUNTY, NEW YORK		SHEET NUMBER	
AS BUILT — CHANGES AS NOTED		DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION	22-522	P-701	
AS BUILT - NO CHANGES		DIVISION OF ENGINEERING	SHEET NO. 49	9 OF 61	
CONTRACTOR NAME	PROJECT COORDINATOR	■	SCALE: AS SHO DATE: 12/09/		
SIGNATURE	SIGNATURE	PLUMBING	DPW FILE NO.		₹E
TITLE DATE	TITLE DATE	DETAILS	48-17-P-	-174	(



GENERAL NOTES	SYMBOL & AB	BREVIATI	ONS
CONTRACT DRAWINGS, AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION CONTRACT DRAWINGS, AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION CONTRACT DRAWINGS, AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION	SYMBOL	ABBREVIATION	DESCRIPTION
OF EQUIPMENT SHALL BE UNDERSTOOD AS DIAGRAMMATIC. ANY CHANGES TO EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST, AND MUST BE APPROVED BY THE ENGINEER.	-	AFF	ABOVE FINISHED FLOOR
THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL MOTOR STARTERS AND DISCONNECT	-	BTU	BRITISH THERMAL UNIT
SWITCHES. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL	-	CFM	CUBIC FEET PER MINUTE
CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE HEAVY DUTY TYPE.	-	Ą.	CENTERLINE
3. LOCATE THERMOSTATS AND TEMPERATURE SENSORS 5'-6" ABOVE FINISHED FLOOR UNLESS	-	DB	DRY BULB TEMPERATURE
OTHERWISE NOTED.	-	EL	ELEVATION
4. THE CONTRACTOR SHALL NOTE THAT, IN ADDITION TO THE SPECIFICATIONS AND DETAILS GIVEN IN THESE PLANS FOR HANGERS AND SUPPORTS, ALL HANGERS AND SUPPORTS SHALL BE DESIGNED	-	FPM	FEET PER MINUTE
AND INSTALLED IN COMPLIANCE WITH APPLICABLE SEISMIC CODES.	-	FPS	FEET PER SECOND
5. ALL WORK SHALL COMPLY WITH 2020 MECHANICAL CODE OF NEW YORK STATE, LOCAL BUILDING CODE, AND 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK REQUIREMENTS. IN	-	LAT	LEAVING AIR TEMPERATURE
CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.	-	LF	LINEAR FEET
6. WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN HVAC EQUIPMENT IN THE PROJECT	-	MBH	1000 BRITISH THERMAL UNITS PER HOUR
AREA OR SERVING THE PROJECT AREA. REMOVE ANY CONSTRUCTION DEBRIS.	-	NIC	NOT IN CONTRACT
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY	-	RPM	REVOLUTIONS PER MINUTE
OSHA.	-	SA	SUPPLY AIR
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.	-	TYP.	TYPICAL
9. THE CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, ACCESS PANELS,	-	U.O.N.	UNLESS OTHERWISE NOTED
PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF CONTROL CONDUITS.	-	UH-	UNIT HEATER
	~	-	FLOW ARROW
EQUIPMENT NOTES		EX.	EXISTING TO REMAIN
1. <u>ELECTRIC UNIT HEATERS (UH-A):</u> SHALL BE QMARK MODEL#: MUH-15-8, 15.0 kW, 208V/3φ/60Hz, 910 CFM. PROVIDE THE FOLLOWING OPTIONS: 24V RELAY KIT, DISCONNECT SWITCH, WALL		REL.	REMOVE AND RELOCATE
THERMOSTAT KIT.		NEW	NEW WORK
2. ROOM TEMPERATURE SENSOR: SHALL BE SIMILAR TO PROSENSE MODEL RTD1-R01-01 ROOM		DEM.	EXISTING TO BE REMOVED
TEMPERATURE SENSOR RTD TYPE. PROVIDE THERMAL BLOCK BETWEEN ROOM TEMPERATURE SENSOR AND CONCRETE WALL. PROVIDE ISOLATION RELAY FOR FUTURE BMS OR REMOTE ANNUNCIATION. PROVIDE 45 DEG. SET POINT.	\bigcirc	-	THERMOSTAT
ANNONCIATION, FROVIDE 40 DEG. SET FOINT.	S	-	SENSOR
	-	UH	UNIT HEATER



NOTES:

- 1.) HANG UNIT WITH THREADED RODS CONTAINING SPRING TYPE VIBRATION ISOLATORS FROM BUILDING STRUCTURAL MEMBERS.
- 2.) SUSPEND UNIT HEATERS SECURELY WITH PROVISIONS FOR EASY REMOVAL AND
- REPAIR.
 3.) INSTALL UNITS SO THAT THEY HANG LEVEL IN THE VERTICAL AND HORIZONTAL.
- 4.) PROVIDE A ROOM THERMOSTAT ARRANGED TO OPEN CONTROL VALVE AND CYCLE THE FAN ON A CALL FOR HEAT.

VERTICAL UNIT

HEATER PIPING DETAIL

SCALE: NONE

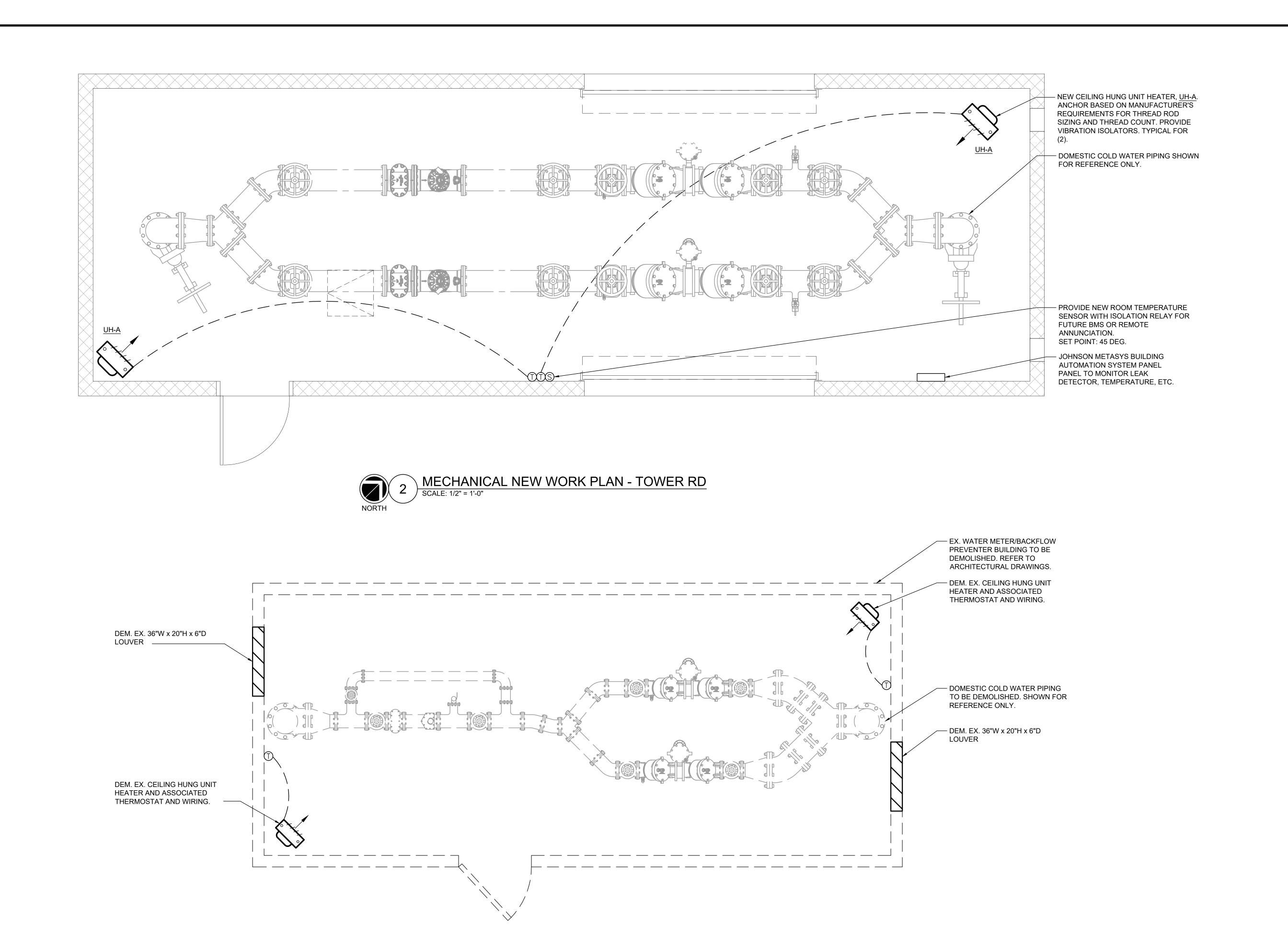


D&B ENGINEERS
AND
ARCHITECTS, P.C.

4 WEST RED OAK LANE
WHITE PLAINS, NY,
10604
(914)467-5300

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CHECKED BY <u>CED</u>						NAME
MADE BYNL	REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION	SIGNATURE TITLE

CONTRACT NUMBER SHEET NUMBER RECORD DRAWING CERTIFICATION WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION 22-522 AS BUILT - CHANGES AS NOTED AS BUILT - NO CHANGES DIVISION OF ENGINEERING SHEET NO. 50 OF 61 CONTRACTOR PROJECT COORDINATOR SCALE: AS SHOWN DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT DATE: 12/09/2022 TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK NAME DPW FILE NO. MECHANICAL SIGNATURE 48-17-M-175 SYMBOLS, ABBREVIATIONS, & GENERAL NOTES ___ DATE ____ DATE

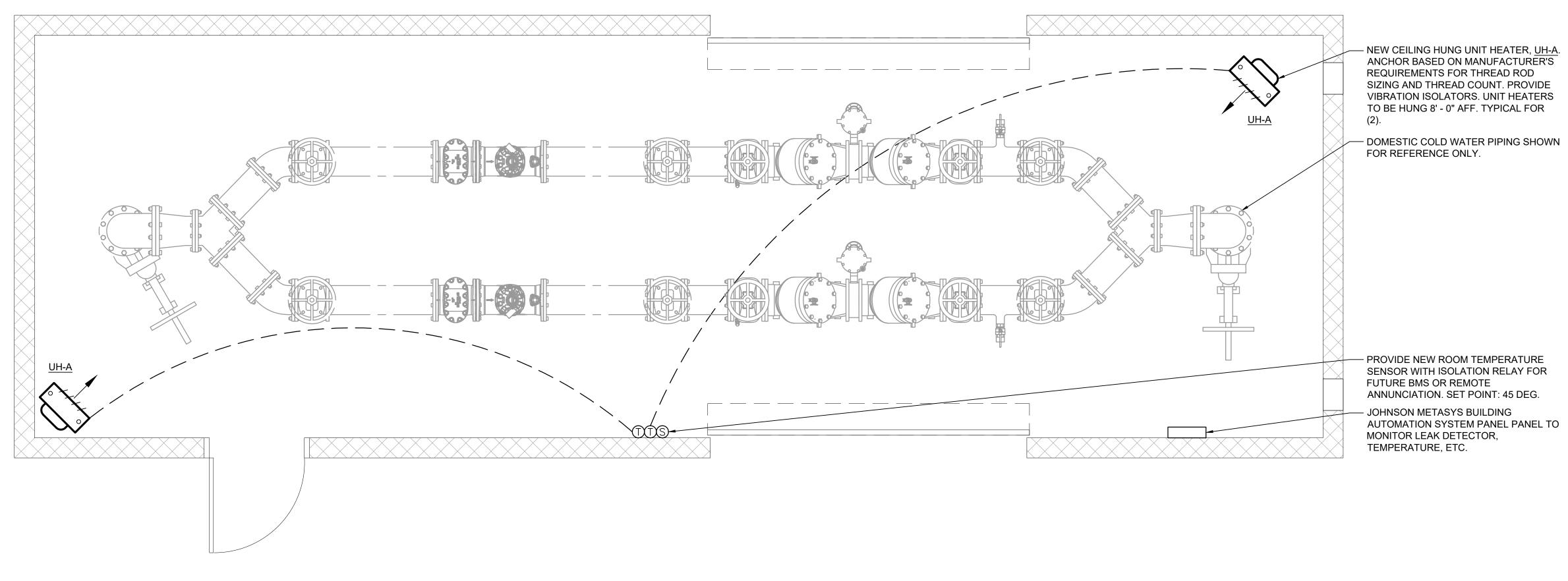


MECHANICAL DEMOLITION PLAN - TOWER RD





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VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.				AS BUILT — CHANGES AS AS BUILT — NO CHANGES			DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING	22-522 SHEET NO. 51	
IN CHARGE OFJW CHECKED BYCED				CONTRACTOR NAME	PRC	JECT COORDINATOR	DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORTOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK	SCALE: AS SH DATE: 12/09 DPW FILE NO.	9/2022
	REVISION NUMBER DATE	MADE APP'D BY BY	REVISION	SIGNATURE DATE _	SIGNATURE	DATE	MECHANICAL DEMOLITION & NEW WORK PLAN — TOWER RD	48-17-M	





SHEET NUMBER

OLA Consulting Engineers 50 Broadway, Hawthorne, NY 10532 914.747.2800 8 West 38th Street, Suite 501 New York, NY 10018 646.849.4110

D&B Engineers 4 WEST RED OAK LANE WHITE PLAINS, NY, 10604 (914)467-5300

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IN CHARGE OF	JW					CONTRACTOR	PROJECT
CHECKED BY	CED					NAME	NAME
MADE BY	NL	REVISION DATE	MADE BY	APP'D BY	REVISION	SIGNATURE DATE	SIGNATURE

CONTRACT NUMBER WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION 22-522 DIVISION OF ENGINEERING SHEET NO. 52 OF 61 DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT

PROJECT COORDINATOR

DATE

SCALE: AS SHOWN DATE: 12/09/2022 TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK MECHANICAL MECHANICAL NEW WORK PLAN - AIRPORT RD 48-17-M-177

SYMBOL	ABBREVIATIO	N DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL ABBREVIATION	DESCRIPTION
	-	CONDUIT AND WIRING	0	-	PUSHBUTTON		DGP	DATA GATHERING PANEL	WP	WEATHERPROOF
	-	CONDUIT & WIRING TO BE REMOVED UON	EPO EPO	EPO	EMERGENCY POWER OFF SWITCH		DWG	DRAWING	NOTES:	
—UG——	-	BURIED CONDUIT (AND WIRING)	600	СВ	CIRCUIT BREAKER		ELEV	ELEVATOR	ALL SYMBOLS AND ABBREVIATIONS MA SEE LIGHTING FIXTURE SCHEDULE FOR	Y NOT BE APPLICABLE FOR THIS PROJECT.
DMUG	-	BURIED CONDUIT AND WIRING TO BE DEMOLISHED	60	-	ENCLOSED CIRCUIT BREAKER		EMT	ELECTRICAL METALLIC TUBING	2. SEE EIGHTING FIXTORE SCHEDOLE FOR	CLIGHT FIXTORE STWIDGES.
1/1/_	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P	/ 200AS ☐ 150AF	-	FUSED SWITCH		EM	EMERGENCY	TYPICAL BRANCH CIRC	UIT WIRING LEGEND
1	-	MULTI-POLE HOMERUN	G	GEN	GENERATOR		EX.	EXISTING TO REMAIN	≥ 2-#12 & 1-#12 GND (1-1P-20A OR	
	-	ELECTRICAL EQUIPMENT AS INDICATED					F	FLOOR	——— 3-#12 & 1-#12 GND (3P-20A OR 3	
L	-	ELECTRICAL EQUIPMENT TO BE REMOVED UON		GND	GROUND AS PER LOCAL CODE		FBO	FURNISHED BY OTHERS	———⇒ 2-#12 & 1-#12 GND (2P-20A OR 2	P-15A CB)
(M)	-	ELECTRIC METER	т-	-	GROUND BAR		FC	FAN COIL UNIT	CIRCUIT#	LIGHT FIXTURE TYPE
J	-	JUNCTION BOX	OR ①	-	GROUND ROD		GEN	GENERATOR	-CIRCUIT # 15	SWITCH CONTROL LIGHT FIXTURE
	-	FUSED DISCONNECT SWITCH	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-	TRANSFER SWITCH		GFI	GROUND FAULT INTERRUPTER	NOTES:	— CIRCUIT #
	-	UNFUSED DISCONNECT SWITCH	ulu OR T	XFMR	TRANSFORMER		HP	HORSEPOWER	NOTES: 1 EACH 120V AND 277V CIRCUIT SHA	LL HAVE A DEDICATED NEUTRAL CONDUCTOR.
	-	COMBINATION MOTOR STARTER/FUSED DISC.	E .	СТ	CURRENT TRANSFORMER		HVAC	HEATING VENTILATION AIR CONDITIONING	NEUTRAL HOMERUNS ARE NOT PERM	
	-	MOTOR STARTER	Q	-	UTILITY POLE		IG	ISOLATED GROUND	ELECTRICAL CODE. FOR CIRCUITS T	HAT ARE BETWEEN 100' AND 150' IN LENGTH, PH. DAWG. FOR CIRCUITS THAT ARE BETWEEN 150' AN
<i>O</i> ′	-	MOTOR		NC	NORMALLY CLOSED CONTACTS		IMC	INTERMEDIATE METAL CONDUIT		JCTORS SHALL BE #8 AWG. FOR LENGTHS GREAT
	-	BATTERY PACK EMERGENCY LIGHT FIXTURE		NO	NORMALLY OPEN CONTACTS		KVA	KILO-VOLT-AMPERE	225 IN LENGTH, VERIFY CONDUCTOR	SIZES WITH ENGINEER.
\square	-	EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW	A	CV	CONTROL VALVE		KW	KILO-WATT		
	-			-	LEAK DETECTOR		MAX	MAXIMUM		
S_{x}		SINGLE POLE SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)	M—	MD	MOTORIZED DAMPER		МСВ	MAIN CIRCUIT BREAKER		
S_{M}	-	MOTOR RATED TOGGLE SWITCH		SD OR CFSD	SMOKE DAMPER		MCC	MOTOR CONTROL CENTER		
	-	WALL MOUNTED OCCUPANCY SENSOR	()	UH	UNIT HEATER		MIN	MINIMUM		
<u> </u>	-	CEILING MOUNTED OCCUPANCY SENSOR	6 911	A	AMPERE(S)		MLO	MAIN LUG ONLY		
	-	DUPLEX RECEPTACLE		AC	AIR CONDITIONER		NIC	NOT IN CONTRACT		
	-	DOUBLE DUPLEX RECEPTACLE		ACC	AIR CONDITIONER CONDENSER		NO.	NUMBER		
$\overline{\hspace{1cm}}$	-	SPECIAL RECEPTACLE		AFF	ABOVE FINISHED FLOOR		NTS	NOT TO SCALE		
∇	-	TELEPHONE OUTLET		AF	AMPERAGE OF FUSE		ОН	OVERHEAD		
▼ x	-	DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK		AGL	ABOVE GRADE LEVEL		Р	POLE		
·		UON)		AHU	AIR HANDLING UNIT		PBO	PROVIDED BY OTHERS		
$lue{f V}$	-	COMBINATION TELEPHONE/DATA OUTLET		AL	ALUMINIUM		PNL	PANEL		
F	-	FIRE ALARM MANUAL PULL STATION		ARC	ARC FAULT INTERRUPTER		PT	PRESSURE TREATED		
EKI (-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE		AS	AMPERAGE OF SWITCH		PVC	POLY VINYL CHLORIDE		
•		(15/75 CD - STROBE)		ATS	AUTOMATIC TRANSFER SWITCH		REL.	REMOVE AND RELOCATE		
Ę	-	FIRE ALARM STROBE 15/75 CD		AWG	AMERICAN WIRE GAUGE		RGS	RIGID GALVANIZED STEEL		
S) _{EL; SH; SC}	-	SMOKE DETECTOR. EL - ELEVATOR LOBBY;		BCW	BARE COPPER WIRE		RTU	ROOF TOP UNIT		
₩EL; SH; SC	3	SH - SMOKE HATCH; SC - PLENUM RATED ABOVE CEILING		BFP	BACKFLOW PREVENTER		SCH	SCHEDULE		
\(\sigma_{AC-}	-	DUCT MOUNTED SMOKE DETECTOR		BLDG	BUILDING		SPD	SURGE PROTECTION DEVICE		
H	-	HEAT DETECTOR		BMS	BUILDING MANAGEMENT SYSTEM		SW	SWITCH(ES)		
	-	CARBON MONOXIDE DETECTOR		CAT	CATALOG		TELCO	TELEPHONE COMPANY		
TS	-	FIRE ALARM TAMPER SWITCH		С	CONDUIT		TYP	TYPICAL		
	-	FIRE ALARM WATER FLOW SWITCH		CD	CANDELA		UG	UNDERGROUND		
	-	FIRE WATER TANK LOW TEMP SENSOR		CKT	CIRCUIT		UON	UNLESS OTHERWISE NOTED		
ANN	-	FIRE ALARM ANNUNCIATOR PANEL		CLG	CEILING		UV	UNIT VENTILATOR		
CM	CM	FIRE ALARM CONTROL MODULE		COL	COLUMN		VIF	VERIFY IN FIELD		
MM	MM	FIRE ALARM MONITORING MODULE		CU	COPPER		V	VOLT(S)		
FACP	FACP	FIRE ALARM CONTROL PANEL		CUH	CABINET UNIT HEATER		VSD	VARIABLE SPEED DRIVE		
R	-	FIRE ALARM RELAY		DEM.	DEMOLISH AND REMOVE		WG	WIRE GUARD		
-w-	EOL	END OF LINE RESISTOR		DISC	DISCONNECT		WH	WATER HEATER		

	OLA Consultir	ng Engineers
	50 Broadway,	
	Hawthorne, N	1 10532
	914.747.2800	
Ш	8 West 38th Suite 501 New York, NY 646.849.4110	·
CONSULTING ENGINEERS	olace.com	NWCG0027.00

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IN CHARGE OF				CONTRACTOR	PROJECT COORDINATOR	DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT	SCALE: AS SH DATE: 12/09	HOWN	
CHECKED BY JF				NAME	NAME	TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RIE BROOK	DPW FILE NO.		REV.
MADE BYJL	REVISION NUMBER	DATE MADE APP'D BY	REVISION	SIGNATURE DATE	SIGNATURE DATE	SYMBOLS AND ABBREVIATIONS	48-17-E-	<u>-</u> 178	0

GENERAL NOTES DEFINITION OF TERMS 1. ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "WESTCHESTER COUNTY AIRPORT" IS INTENDED. 2. THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED. 2. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "D&B ENGINEERS & ARCHITECTS" IS INTENDED. 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION. UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED. 4. THE CONTRACTOR SHALL BE RESPONSIBLE TO HIRE A THIRD PARTY ELECTRICAL INSPECTION WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER AGENCY TO PROVIDE UL INSPECTIONS AND SUBMIT A CERTIFICATE OF INSPECTION PRIOR TO COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "CON EDISON" IS INTENDED. FINAL REQUEST FOR PAYMENT. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "TELEPHONE UTILITY" OR "TELCO" ARE 5. ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE USED, IT MUST BE UNDERSTOOD THAT "VERIZON" IS INTENDED. UTILITY COMPANY. 6. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "FIRE ALARM SYSTEM" OR "FIRE ALARM ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS". VENDOR" ARE USED, IT MUST BE UNDERSTOOD THAT "SIMPLEX" IS INTENDED. 7. ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS. ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES. 8. "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE. 9. "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING. APPLYING. SETTING. 8. CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD. ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS. 9. CORE DRILLING OR TRENCHING THROUGH AN EXISTING FLOOR SLAB, WHEN REQUIRED, SHALL BE COORDINATED WITH THE OWNER. FLOOR SLABS SHALL BE RADAR SCANNED PRIOR TO CORE DRILLING OR TRENCHING. ALL WORK, INCLUDING CORE DRILLING, RADAR SCAN, INSTALLATION OF 10. "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS FIRE STOPPING, & CONDUIT/CABLE INSTALLATION SHALL BE PERFORMED DURING NON-BUSINESS DEFINED ABOVE. HOURS AND INCLUDED IN BASE BID. USE EXTREME CAUTION DURING ANY CUTTING OPERATION TO AVOID DAMAGE TO EXISTING EQUIPMENT/SYSTEMS. ANY ITEMS DAMAGED AS A RESULT OF 11. THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS: CORE DRILLING SHALL BE REPAIRED AT NO COST TO THE CLIENT. ALL CORES SHALL BE FIRE SEALED. A. "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE. CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE. 10. FOR EACH WALL MOUNTED COMMUNICATIONS OUTLET, PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND 1 INCH CONDUIT WITH DRAGLINE 6 INCHES ABOVE ACCESSIBLE CEILING FOR INSTALLATION OF CABLE.. B. "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR 11. WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT. INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE. C. "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE 12. INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS. AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR 13. UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED PURCHASE MAY NOT COMMENCE. TOGGLE SWITCHES FOR MECHANICAL UNIT HEATERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH D. "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT THE MECHANICAL CONTRACTOR. COMMENCE. 14. DISCONNECT SWITCHES FOR MOTORIZED DAMPERS, SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS. DEMOLITION NOTES 15. EACH DUPLEX AND QUAD RECEPTACLE SHALL BE LABELED WITH THE CIRCUIT NUMBER WHICH IT SERVES. ALPHANUMERICS TO BE 1/8" HIGH AND BLACK ON CLEAR BACKGROUND. LABELS SHALL ALL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED BACK TO POWER SOURCE ORIGINATION BE SELF ADHESIVE. IDENTIFY ASSOCIATED PANEL AND CIRCUIT NUMBER. UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). 16. THE CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, PAINTING, AND FINAL RESTORATION 2. CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL REQUIRED TO FACILITATE THE DEMOLITION AND INSTALLATION OF ALL ELECTRICAL EQUIPMENT. INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS, INCLUDING BUT NOT LIMITED TO PANELBOARDS, CONDUITS, WIRING, DEVICES, FIXTURES, ETC. CONDUIT AND WIRE IN ORDER TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS INCLUDING ABOVE CEILINGS. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND SERVICE TO DEVICES AND SYSTEMS TO REMAIN, TEMPORARY AND PERMANENTLY. WORK PATCH WALLS, AS REQUIRED TO EXECUTE THE ELECTRICAL WORK. REQUIRING THE SHUT-DOWN OF THE BUILDING POWER SHALL BE PERFORMED DURING OVERTIME AND SHALL BE INCLUDED IN BASE BID. CIRCUIT BREAKER, CONDUIT AND CONDUCTOR SIZES INDICATED SHALL BE FIELD VERIFIED PRIOR 4. ALL EXISTING ELECTRICAL EQUIPMENT NO LONGER IN USE. SUCH AS DISCONNECT SWITCHES. MOTOR CONTROLLERS, MOTOR STARTER PANELS, ETC. SHALL BE REMOVED UON. TRENCHING NOTES ALL DISCONNECTED & REMOVED EXISTING ELECTRICAL ITEMS THAT ARE NOT BEING REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED. 1. CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES THAT ARE NOT PART OF N.Y STATE "CODE 753" PRIOR TO DIGGING. 6. THE CONTRACTOR SHALL INCLUDE IN THE BASE BID FOR ALL MATERIAL & LABOR REQUIRED FOR THE EXTENSIONS, REROUTING & RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, 2. ALL EXCAVATING IN THE AREA OF THE EXISTING UNDERGROUND EQUIPMENT. PIPES AND CONDUITS WIRING, CONDUITS & CABLING SO AS TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE SHALL BE PERFORMED BY HAND. BUILDING DURING DEMOLITION & CONSTRUCTION PHASES. 3. ANY AREA/PLANTS OR LANDSCAPING OR PAVEMENTS DISTURBED DURING THE EXCAVATION SHALL BE RESTORED OR REPLACED TO MATCH EXISTING CONDITIONS BY THE CONTRACTOR AT NO COST TO THE OWNER. 4. ANY EXISTING BURIED CONDUITS, DRAINAGE, SPRINKLER PIPING, ETC. THAT IS DISTURBED AND/OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE 5. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-962-7962 (NY STATE). UNAUTHORIZED ALTERATION OR WESTCHESTER COUNTY, NEW YORK **OLA Consulting Engineers** RECORD DRAWING CERTIFICATION NUMBER NUMBER ADDITION TO THIS DOCUMENT IS A D&B ENGINEERS DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION 22-522 E - 00250 Broadway, VIOLATION OF SECTION 7209 OF THE AS BUILT - CHANGES AS NOTED Hawthorne, NY 10532 NEW YORK STATE EDUCATION LAW. 914.747.2800 AS BUILT - NO CHANGES DIVISION OF ENGINEERING SHEET NO. 54 OF 61 ARCHITECTS, P.C. CONTRACTOR 8 West 38th Street, PROJECT COORDINATOR SCALE: AS SHOWN DOMESTIC WATER SYSTEM IMPROVEMENTS. WESTCHESTER COUNTY AIRPORT IN CHARGE OF _____JW_ 4 WEST RED OAK LANE Suite 501 DATE: 12/09/2022 WHITE PLAINS, NY, TOWNS OF HARRISON. NORTH CASTLE & VILLAGE OF RYE BROOK New York, NY 10018 NAME NAME CHECKED BY _____

SIGNATURE ____

REVISION

SIGNATURE

DATE

DATE

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olace.com

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(914)467 - 5300

REVISION DATE

NUMBER

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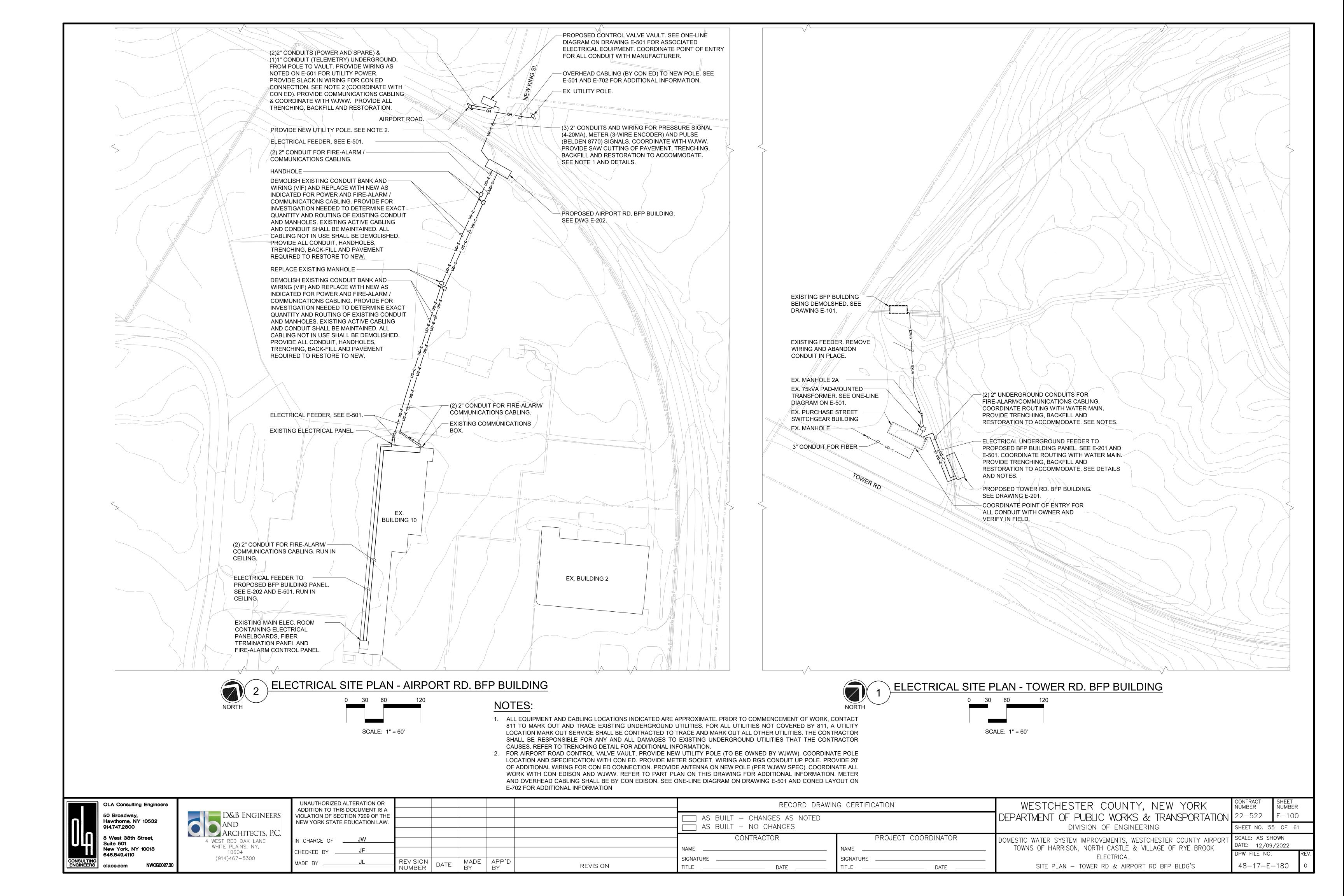
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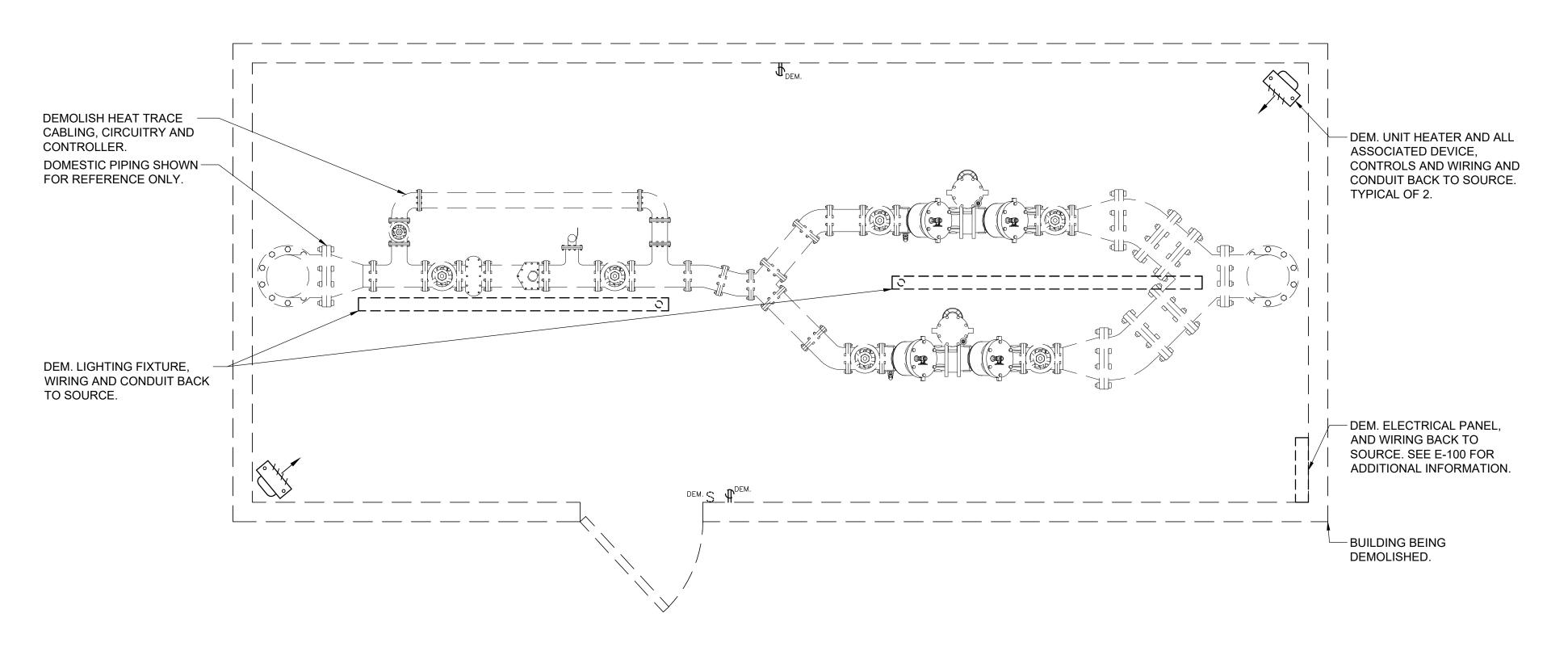
DPW FILE NO.

48-17-E-179

ELECTRICAL

GENERAL NOTES AND DEFINITION OF TERMS





ELECTRICAL TOWER RD. BACKFLOW PREVENTER (BFP) BUILDING PLAN - DEMOLITION SCALE: 1/2" = 1'-0"

NOTES:

1. DEMOLITION SHALL NOT TAKE PLACE UNTIL NEW BACKFLOW PREVENTER BUILDING AND ALL ASSOCIATED WORK IS COMPLETE AND FULLY OPERATIONAL.

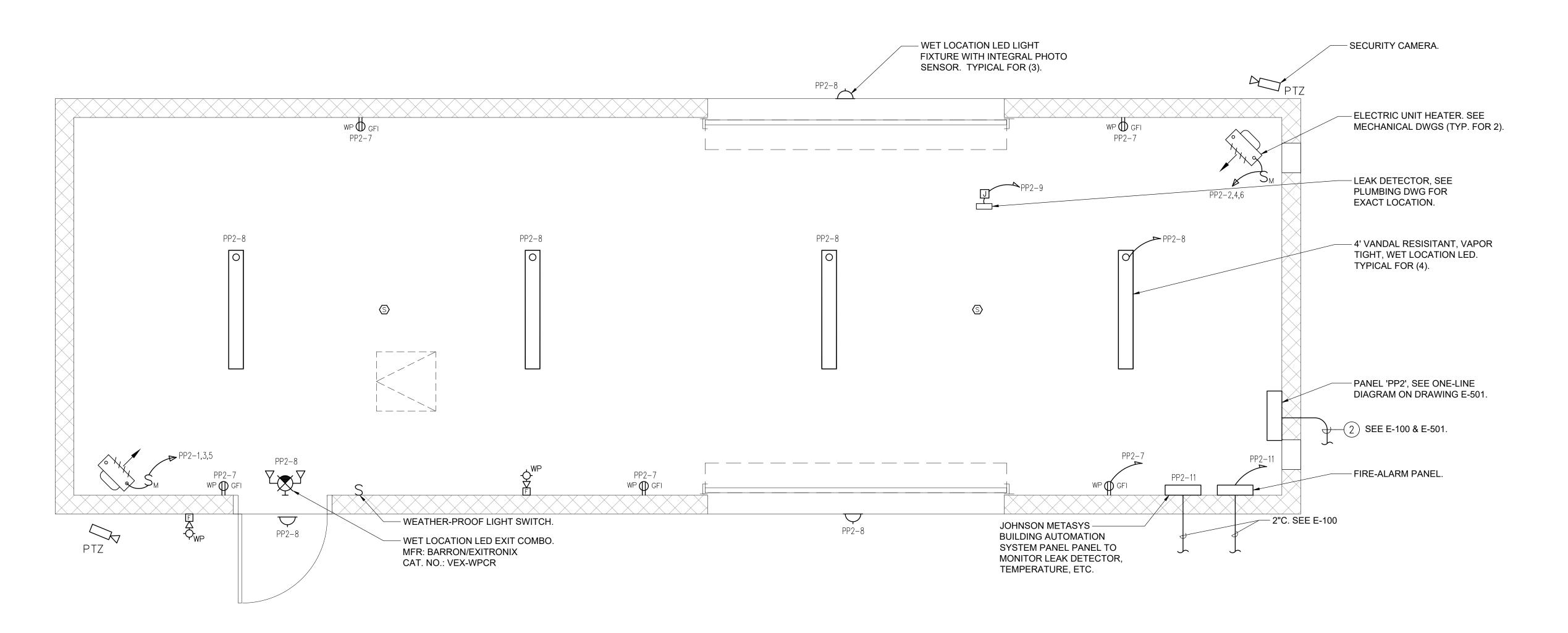
DEMOLITION NOTES:

- 1. ALL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED BACK TO POWER SOURCE ORIGINATION UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
- 2. CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS, CONDUIT AND WIRE IN ORDER TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS SERVICE TO DEVICES AND SYSTEMS TO REMAIN, TEMPORARY AND PERMANENTLY. WORK REQUIRING THE SHUT-DOWN OF THE BUILDING POWER SHALL BE PERFORMED DURING OVERTIME AND SHALL BE INCLUDED IN BASE BID.
- 3. CIRCUIT BREAKER, CONDUIT AND CONDUCTOR SIZES INDICATED SHALL BE FIELD VERIFIED PRIOR TO BID.
- 4. ALL EXISTING ELECTRICAL EQUIPMENT NO LONGER IN USE, SUCH AS DISCONNECT SWITCHES, MOTOR CONTROLLERS, MOTOR STARTER PANELS, ETC. SHALL BE REMOVED UON.
- 5. ALL DISCONNECTED & REMOVED EXISTING ELECTRICAL ITEMS THAT ARE NOT BEING REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED.
- 6. THE CONTRACTOR SHALL INCLUDE IN THE BASE BID FOR ALL MATERIAL & LABOR REQUIRED FOR THE EXTENSIONS, REROUTING & RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, WIRING, CONDUITS & CABLING SO AS TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE BUILDING DURING DEMOLITION & CONSTRUCTION PHASES.
- 7. NO DEMOLITION SHALL TAKE PLACE UNTIL NEW CONSTRUCTION IS COMPLETE. EXISTING TOWER ROAD BACKFLOW PREVENTER BUILDING TO REMAIN OPERATIONAL UNTIL CONSTRUCTION OF THE NEW TOWER ROAD BFP BUILDING, AIRPORT ROAD BFP BUILDING AND WATER MAIN EXTENSION IS COMPLETE.



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(914)467–5300	MADE

							SCALE: ½" =1'-0") "
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IOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.				AS BUILT — CHANGES AS NOTED AS BUILT — NO CHANGES		DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING	22-522 SHEET NO. 56	E-101 56 OF 61
N CHARGE OF JW HECKED BY JF ADE BY JL	REVISION DATE	MADE APP'D BY BY	REVISION	CONTRACTOR NAME SIGNATURE DATE	PROJECT COORDINATOR NAME SIGNATURE DATE	DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK ELECTRICAL TOWER RD. BFP BLDG PLAN — DEMOLITION	SCALE: AS SHODATE: 12/09/DPW FILE NO. 48-17-E-). RE



ELECTRICAL TOWER RD. BACKFLOW PREVENTER (BFP) BUILDING PLAN - POWER, LIGHTING & FIRE ALARM

SCALE: 1/2" = 1'-0"

SCALE: ½" = 1'-0"

OLA Consulting Engineers

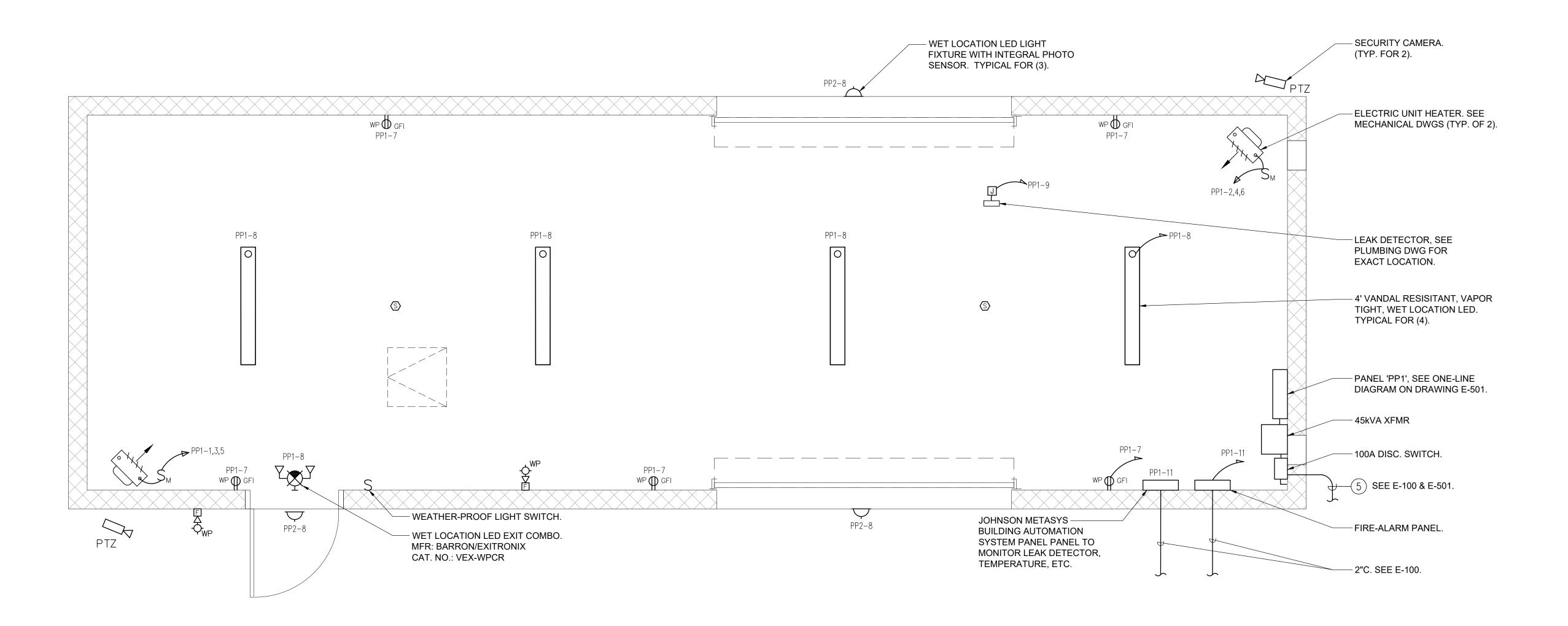
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Hawthorne, NY 10532
914.747.2800

8 West 38th Street,
Suite 501
New York, NY 10018
646.849.4110

D&B ENGINEERS
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	IN CHARGE OFJW				CONTRACTOR	PROJECT COORDINATOR	DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT	SCALE: AS SHO	IOWN
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	MADE BYJL	NUMBER DATE	BY BY	REVISION	TITLE DATE	TITLE DATE	TOWER RD. BFP BLDG PLAN — POWER, LIGHTING & FIRE ALARM	48-17-E-	-182 0

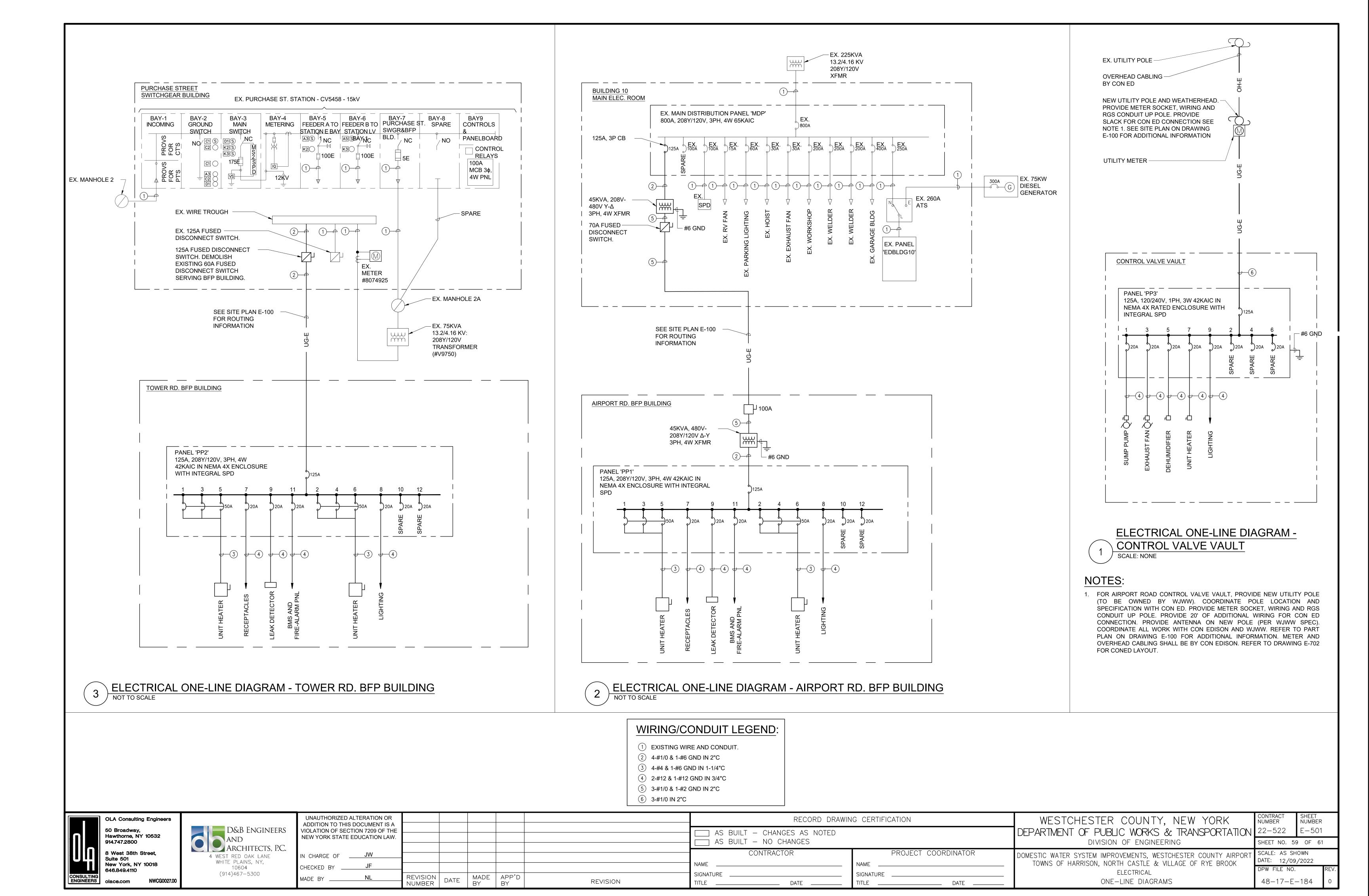


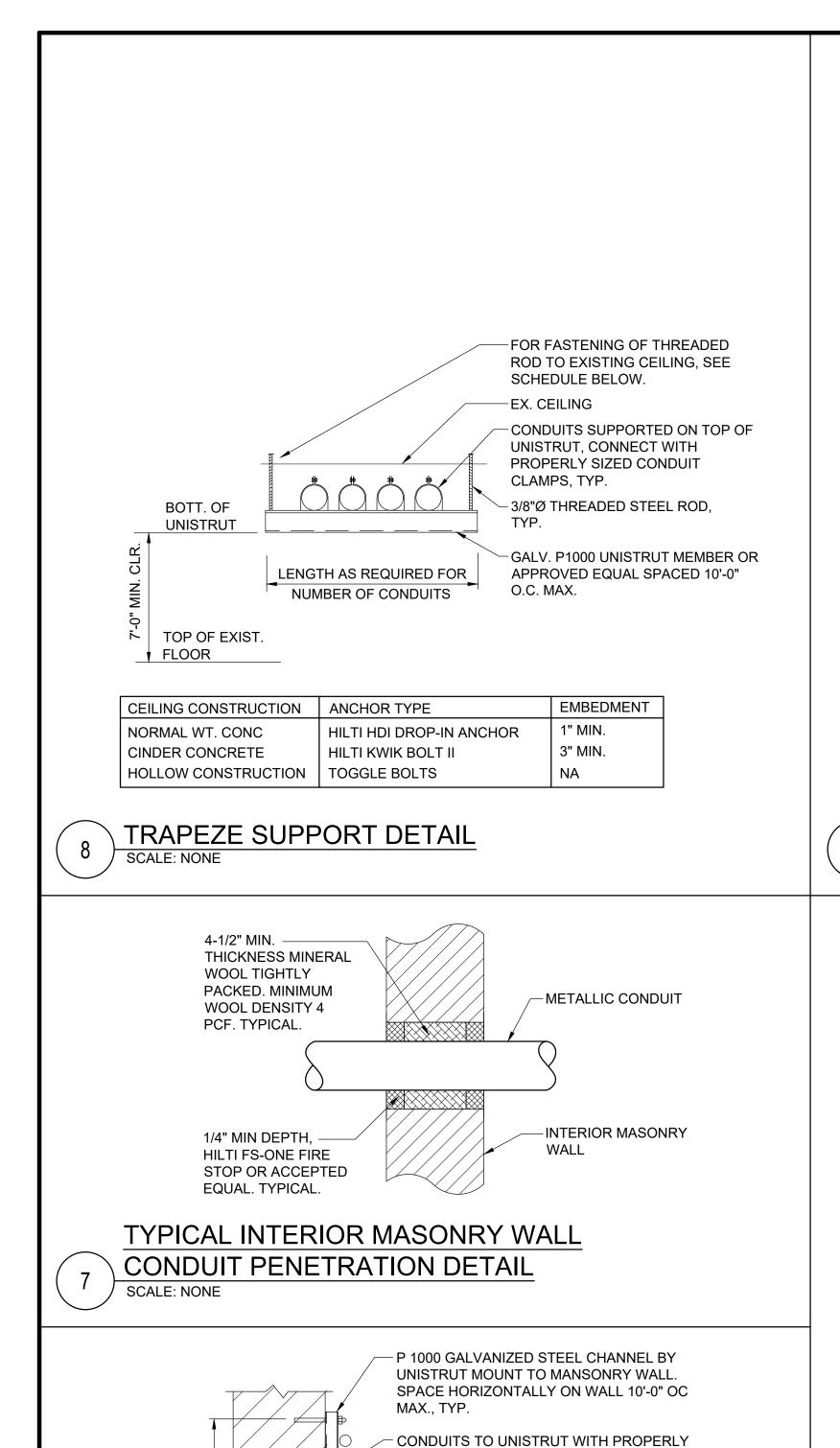


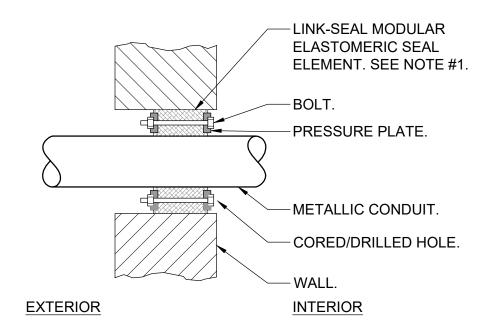
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	914.747.2800
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CHECKED BY JF				NAMESIGNATURE	NAMESIGNATURE	TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK	DATE: 12/09/2 DPW FILE NO.	/2022 REV.
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-METAL STUDS

- METALLIC CONDUIT

-FIRE RATED GYPSUM

WALLBOARD

NOTES:

SCALE: NONE

4-1/2" MIN. ———

WOOL TIGHTLY

1/4" MIN DEPTH,

EQUAL. TYPICAL.

SCALE: NONE

HILTI FS-ONE FIRE

STOP OR ACCEPTED

TYPICAL FIRE RATED GYPSUM WALL

CONDUIT PENETRATION DETAIL

TYPICAL.

PACKED. MINIMUM

THICKNESS MINERAL

WOOL DENSITY 4 PCF.

- 1. SEAL ASSEMBLY BASED ON MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, REINFORCED NYLON POLYMER PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & CORROSION INHIBITING COATING NUTS AND BOLTS AND WITH A OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
- 2. PROVIDE AND INSTALL TWO SEALS WHEN PENETRATED WALL THICKNESS IS GREATER THAN 12".
- 3. PROVIDE SCHEDULE 80 WALL SLEEVE FOR NEW WALL CONSTRUCTION

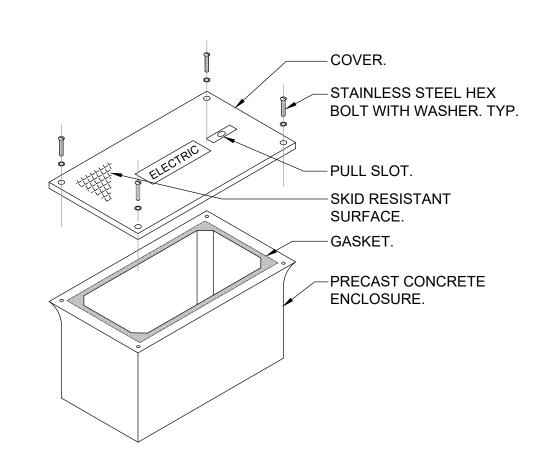
PER MANUFACTURER'S REQUIREMENTS.

TYPICAL EXTERIOR MASONRY WALL **BELOW GRADE CONDUIT** PENETRATION DETAIL

-EXIST. CEILING FOR FASTENING OF THREADED 3/8"Ø THREADED ROD TO EXISTING CEILING, SEE STEEL ROD, TYP. SCHEDULE BELOW. - CONDUIT HANGER. SEE NOTE BELOW. CONDUIT. BOTT. OF HANGER **EMBEDMENT** CEILING CONSTRUCTION | ANCHOR TYPE 1" MIN. NORMAL WT. CONC HILTI HDI DROP-IN ANCHOR HILTI KWIK BOLT II 3" MIN. CINDER CONCRETE HOLLOW CONSTRUCTION | TOGGLE BOLTS TOP OF EXIST. ▼ FLOOR NOTE: CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1". GENERAL

PURPOSE HANGERS MAY BE USED ON PIPING 1" OR SMALLER.

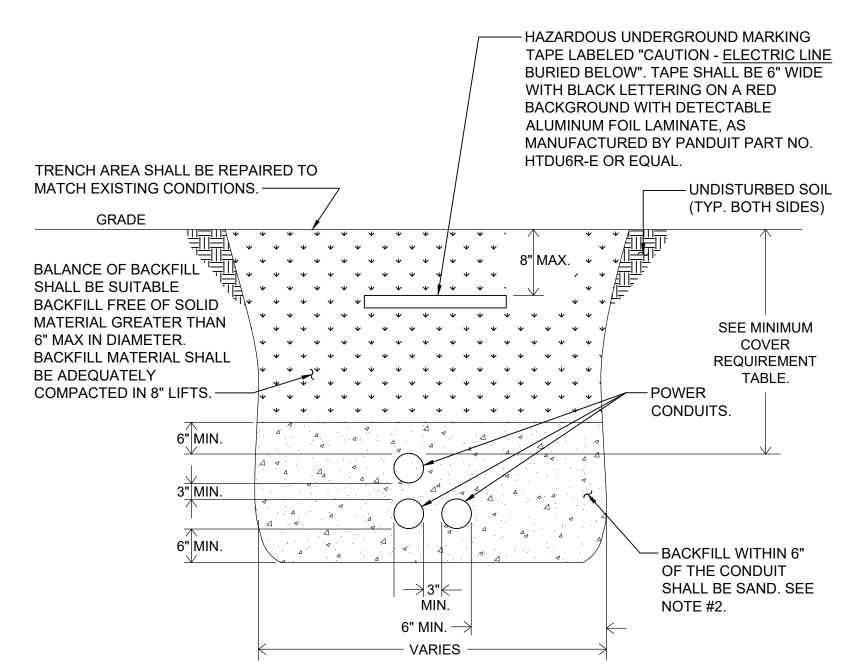
SINGLE CONDUIT HANGER DETAIL SCALE: NONE



NOTES:

- HAND HOLE SHALL BE 24"L x 13"W x 12"H FOR ELECTRIC SERVICE PRIMARY WIRE & CONDUIT AND COMMUNICATIONS CONDUIT WITH OPEN BOTTOM AND RATED FOR VEHICULAR TRAFFIC AS MANUFACTURED BY QUAZITE, MODEL #FRP OR EQUAL. BOX SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 2. PROVIDE 6" OF GRAVEL BELOW BOX.
- 3. COVER SHALL BE IMPRINTED WITH THE APPROPRIATE DESCRIPTION OF BOX CONTENTS (I.E. ELECTRIC, TELEPHONE, DATA, CABLE TV, ETC.).

HAND HOLE DETAIL SCALE: NONE



MINIMUM COVER REQUIREMENT TABLE						
LOCATION	NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITHOUT CONCRETE ENCASEMENT OR OTHER APPROVED RACEWAYS					
ALL LOCATION NOT SPECIFIED SELOW.	18"					
N TRENCH BELOW 2-IN. THICK CONCRETE OR EQUIVALENT.	12"					
INDER MINIMUM OF 4-IN. THICK CONCRETE EXTERIOR SLAB WITH NO YEHICULAR TRAFFIC AND THE SLAB EXTENDING NOT LESS THAN 6 IN. SEYOND THE UNDERGROUND NSTALLATION.	4" SEE NOTE #2.					
INDER STREETS, HIGHWAYS, ROADS, LLEYS, DRIVEWAYS, AND PARKING OTS.	24"					

- DETAIL SHOWN FOR INFORMATION PURPOSES. SAME CONCEPT SHALL ALSO APPLY FOR SINGLE CONDUITS.
- 2. SAND MAY BE OMITTED FOR INSTALLATIONS WHERE COVER REQUIREMENTS ARE 6" OR LESS.

WESTCHESTER COUNTY, NEW YORK

DETAILS

TRENCHING DETAIL FOR CONDUIT SCALE: NONE

DATE

OLA Consulting Engineers 50 Broadway, Hawthorne, NY 10532 914.747.2800 8 West 38th Street, Suite 501 New York, NY 10018 646.849.4110

* LENGTH AS REQUIRED FOR

NUMBER OF CONDUITS

D&B Engineers ARCHITECTS, P.C. 4 WEST RED OAK LANE WHITE PLAINS, NY, (914)467 - 5300

SIZED CONDUIT CLAMPS. TYP.

-MASONRY WALL

TYPICAL CONDUIT SUPPORT OON MASONRY

- 3/8"Ø STANDARD HIT ANCHOR ROD WITH SCREEN TUBE AND HIT C-20

ADHESIVE BY HILTI. EMBEDMENT = 3" MIN.

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RECORD DRAWING CERTIFICATION AS BUILT - CHANGES AS NOTED AS BUILT - NO CHANGES CONTRACTOR PROJECT COORDINATOR NAME NAME SIGNATURE SIGNATURE

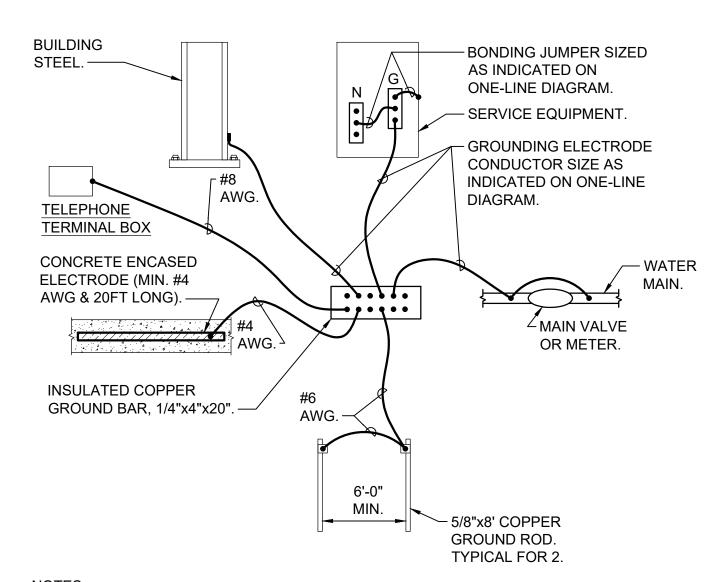
DATE

DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION 22-522 E - 701DIVISION OF ENGINEERING SHEET NO. 60 OF 61 SCALE: AS SHOWN DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPOR' DATE: 12/09/2022 TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK ELECTRICAL

SHEET NUMBER

NUMBER

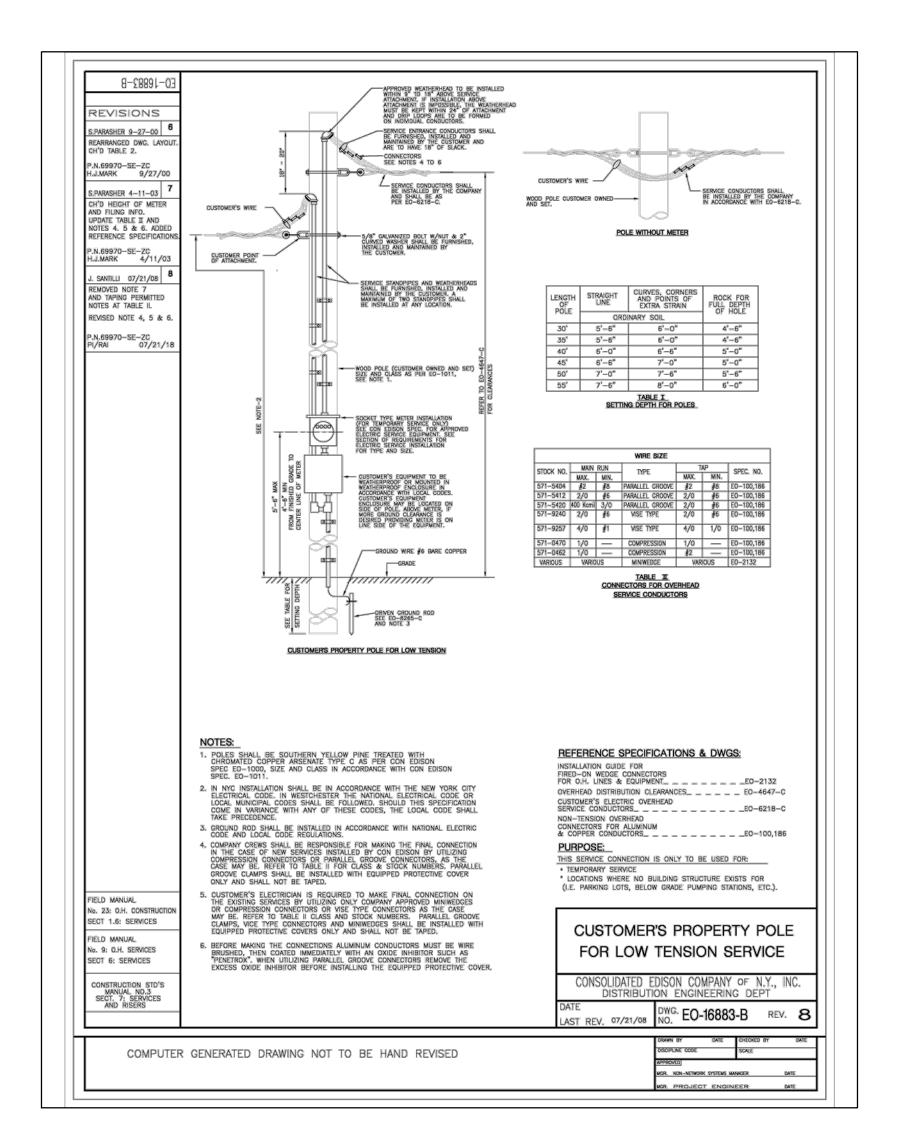
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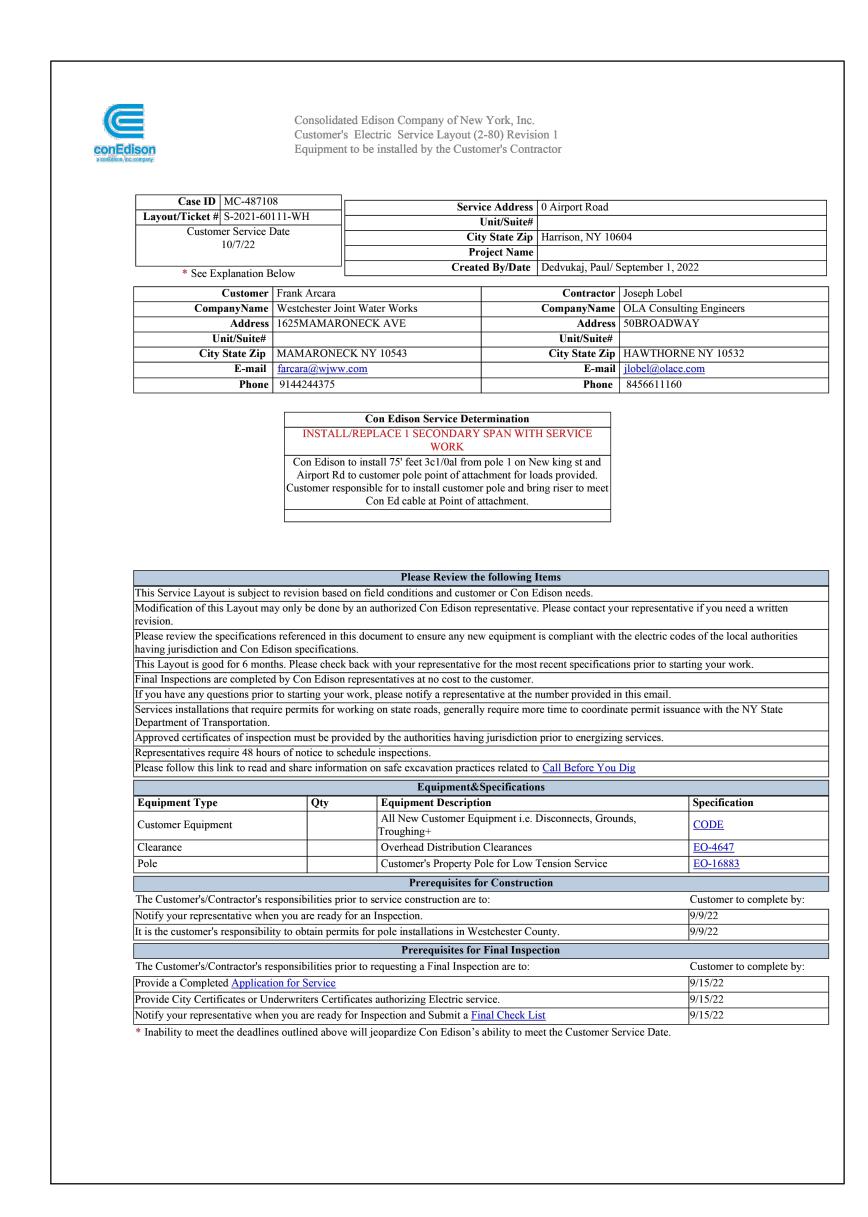
. CONNECTION TO WATER MAIN AND FIRE PROTECTION MAIN SHALL BE A MAXIMUM OF 5'-0" FROM WHERE THE PIPE ENTERS THE BUILDING AND BE PRIOR TO ANY

METER, VALVE JOINT, ETC. 2. ALL CONNECTIONS TO THE GROUND BAR SHALL BE MADE USING COMPRESSION LUGS SIZED TO ACCOMODATE THE CONDUCTORS.





CUSTOMER PROPERTY POLE SCALE: NONE



CONED SERVICE LAYOUT (FOR VALVE VAULT)

1. REFER TO CON EDISON SPECIFICATIONS FOR ADDITIONAL INFORMATION.



D&B Engine ARCHITECTS 4 WEST RED OAK LANE WHITE PLAINS, NY, 10604 (914)467 - 5300

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IN CHARGE OF JW				CONTRA NAME	CTOR	PROJECT NAME	COORDINATOR	DOMESTIC WATER SYSTEM IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON, NORTH CASTLE & VILLAGE OF RYE BROOK	SCALE: AS SHO DATE: 12/09/	OWN /2022
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