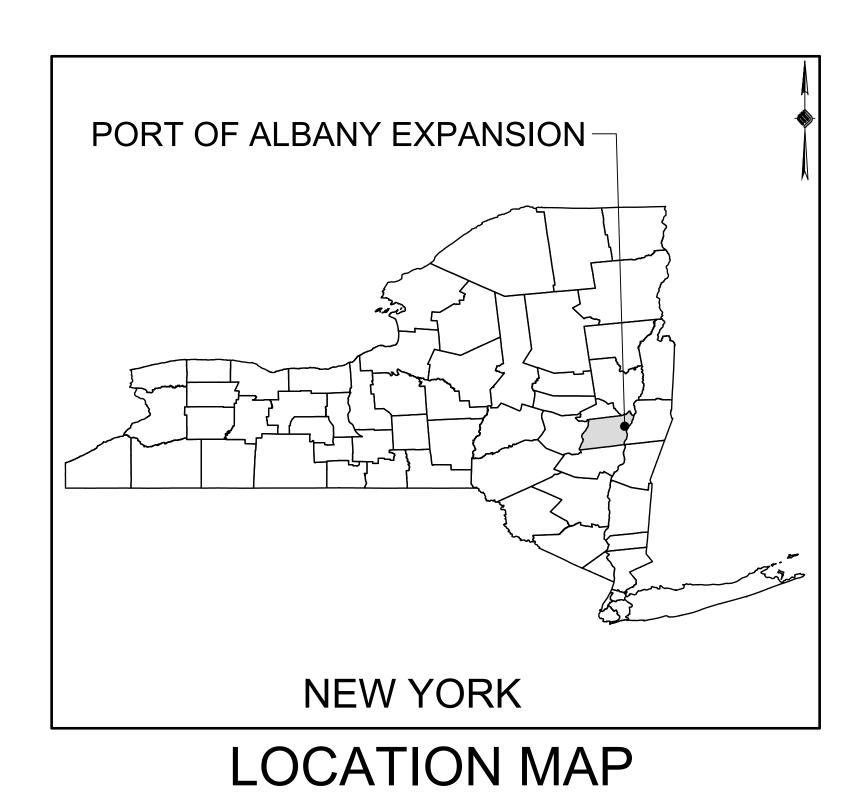
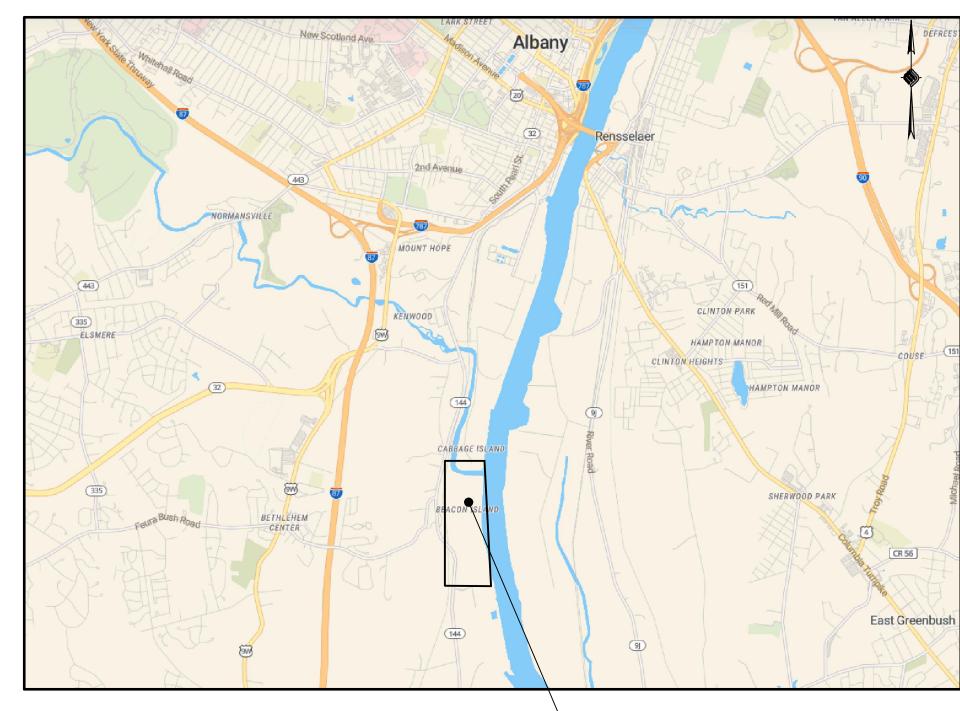
ALBANY PORT DISTRICT COMMISSION OFF-SITE INFRASTRUCTURE IMPROVEMENTS



FINAL DESIGN PLANS

MAY 10, 2022
(REVISED 06-17-2022)
TOWN OF BETHLEHEM
ALBANY COUNTY
NEW YORK



PORT OF ALBANY EXPANSION-

VICINITY MAP





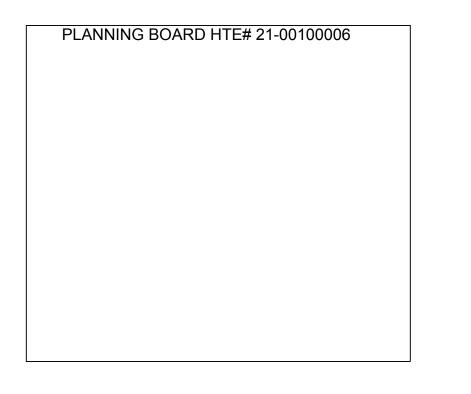
ALBANY PORT DISTRICT COMMISSION 106 SMITH BOULEVARD ALBANY, NEW YORK (518) 463-8763 WWW.ALBANY.GOV

PORT OF ALBANY

PREPARED BY:



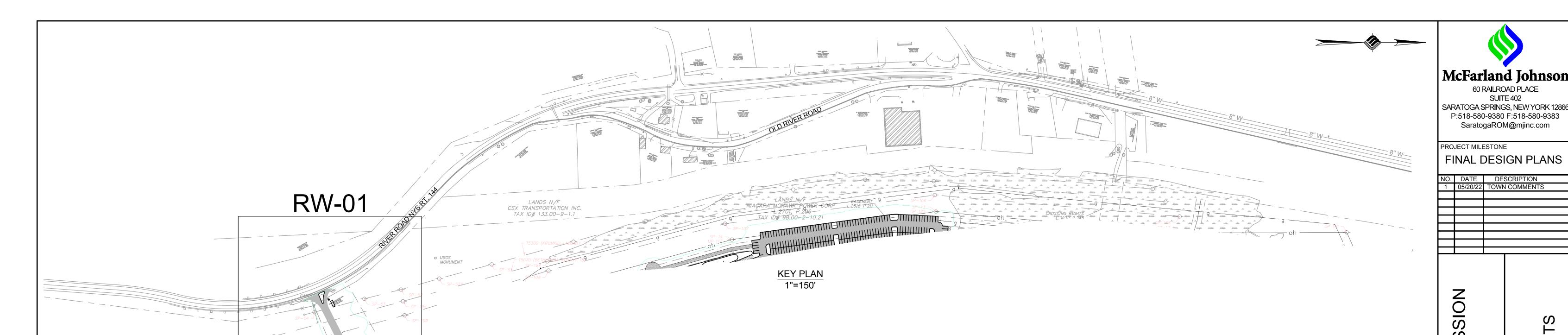
MCFARLAND JOHNSON PROJECT # 18641.00



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SEALED	ADAM J. FROSINO		
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PE_NO	088870		
DE DATE	MAY 10, 2022 (PEVISED 06 17 2022)		
PE_DATE	MAY 10, 2022 (REVISED 06-17-2022)		

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

00 ALBANY PORT EXPANSION\DRAW\DRAWINGS\SHEET FILES\OFFSITE PLANS\18641.00-COVR.DWG



<u> SENERAL NOTES:</u>

- THE UNDERGROUND STRUCTURES AND UTILITIES SHOWN ON THESE PLANS HAVE BEEN PLOTTED FROM A SURVEY PREPARED BY MASER CONSULTING P.A. 18 COMPUTER DRIVE EAST SUITE 203, ALBANY, NY 12205, DATED JULY 10, 2018 AND AVAILABLE SURVEYS AND RECORD MAPS BY OTHERS. MCFARLAND JOHNSON DOES NOT CERTIFY TO THE ACCURACY OF THEIR LOCATION AND/OR COMPLETENESS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND EXTENT OF ALL UNDERGROUND STRUCTURES AND UTILITIES PRIOR TO ANY DIGGING OR CONSTRUCTION ACTIVITIES IN THEIR VICINITY. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES FIELD STAKED BEFORE STARTING WORK BY CALLING 1-800-962-7962.
- THE CONTRACTOR SHALL PERFORM ALL WORK IN COMPLIANCE WITH TITLE 29 OF FEDERAL REGULATIONS, PART 1926, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION (OSHA).
- HIGHWAY DRAINAGE ALONG ALL ROADS AND PRIVATE DRIVES SHALL BE KEPT CLEAN OF MUD, DEBRIS ETC. AT ALL TIMES. ALL CATCH BASINS AND STORM SEWER MANHOLES SHALL BE CLEANED PRIOR TO ACCEPTANCE BY THE TOWN.
- THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER BEFORE DEVIATING FROM THESE PLANS.
- IN ALL TRENCH EXCAVATIONS, CONTRACTOR MUST LAY THE TRENCH SIDE SLOPES BACK TO A SAFE SLOPE, USE A TRENCH SHIELD OR PROVIDE SHEETING AND BRACING. THE MEANS AND METHODS SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER.
- EXCAVATED WASTE MATERIAL REMOVED FROM THE SITE SHALL BE PLACED AT A LOCATION ACCEPTABLE TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
- THE CONTRACTOR SHALL TAKE PRECAUTIONS TO MAINTAIN A MINIMUM OF 2' OF COVER OVER ALL EXISTING AND NEW STORM SEWER PIPES AND 4' OF COVER OVER ALL SANITARY PIPES DURING CONSTRUCTION.
- ALL EXISTING SURFACE APPURTENANCES (I.E. WATER VALVES, CATCH BASIN FRAMES AND GRATES, MANHOLE COVERS) WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO FINISHED GRADE. (NO SEPARATE PAYMENT).
- AREAS DISTURBED OR DAMAGED AS PART OF THIS PROJECT'S CONSTRUCTION THAT ARE OUTSIDE OF THE PRIMARY WORK AREA SHALL BE RESTORED, AT THE CONTRACTORS EXPENSE. TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- . UNLESS COVERED BY THE CONTRACT SPECIFICATIONS OR AS NOTED ON THE PLANS, ALL WORK SHALL CONFORM TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED JANUARY 8, 2015 AND ANY SUBSEQUENT REVISIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE ALL PERMITS AND PROVIDE ALL BONDS REQUIRED FOR THIS WORK, INCLUDING BUT NOT LIMITED TO UTILITY CONNECTIONS, BUILDING AND SITE CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODE AND/OR UTILITY SERVICE COMPANIES. THIS SHALL BE COMPLETED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
- MAINTENANCE AND PROTECTION OF TRAFFIC ALONG WITH SECURING THE WORK AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. THE CONTRACTOR SHALL LOCATE, MAKE, SAFEGUARD AND PRESERVE ALL SURVEY CONTROL MONUMENTS AND ROW MONUMENTS IN THE AREAS OF CONSTRUCTION.
- 15. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND SAFETY PROCEDURES. THE OWNER AND/OR ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB CONTRACTOR OR THEIR AGENTS, EMPLOYEES OR ANY OTHER PERSON PERFORMING ANY OF THE WORK.
- 16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATION ASSOCIATED WITH THIS PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATION OR APPLICABLE CODES, IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNERS REP. IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE OWNERS REP. SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.
- 17. ALL WORK SUBJECT TO SECTION 128-49 OF THE TOWN ZONING SHALL BE CERTIFIED BY DESIGNATED PROFESSIONALS PURSUANT TO SECTION 128-49(f)(2)(I).

SEQUENCE OF CONSTRUCTION

- CONDUCT A PRE-CONSTRUCTION MEETING WITH THE MS4 AND ENGINEER TO
- 2. NOTIFY THE NYSDEC WITHIN 14 DAYS, AND NO LESS THAN 3 DAYS PRIOR TO COMMENCING WORK ACTIVITIES THAT MAY AFFECT AREAS OF THE SUBJECT SITE THAT ARE IMPACTED WITH ASH, AS REQUIRED BY SECTION 3.2 OF THE SMP.
- 3. CLEARLY IDENTIFY PROJECT WORK LIMITS, IDENTIFYING ALL AREAS WHERE CONSTRUCTION DISTURBANCE SHALL BE PERMITTED.
- 4. INSTALL EROSION CONTROL MEASURES PRIOR TO COMMENCING EARTHWORK OPERATIONS. CONSTRUCT TEMPORARY EARTHEN BERMS, DIVERSION SWALES, SEDIMENT CONTROL DAMS AND ASSOCIATED EROSION CONTROL MEASURES NECESSARY TO DIVERT RUNOFF FROM ENTERING PLANNED AREAS OF DISTURBANCE AND TO PROTECT THE ADJACENT WATERWAY.
- ALL INSTALLED EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED AND CERTIFIED AS CORRECTLY INSTALLED BY THE OWNER'S QUALIFIED INSPECTOR AND TOWN OF BETHLEHEM STAFF.
- ESTABLISH TEMPORARY/PERMANENT STORM WATER MANAGEMENT PONDS/EROSION CONTROL BASINS. A. CONSULT THE SMP FOR THE APPROPRIATE MEASURES TO HANDLE OR

DISPOSE OF ANY ENCOUNTERED CONTAMINATED SOILS.

- 7. REMOVE VEGETATION AND DISPOSE OF OFF-SITE.
- STRIP AND STOCKPILE TOPSOIL FROM PROPOSED PAVEMENT, STRUCTURAL FILL AND CUT AREAS (STOCKPILE MATERIALS IN LOCATIONS AS DIRECTED BY OWNER'S REPRESENTATIVE).
- ESTABLISH MASS EARTHWORK SUBGRADE ELEVATIONS. A. CONSULT THE SMP THE APPROPRIATE MEASURES TO HANDLE OR DISPOSE OF ANY ENCOUNTERED CONTAMINATED SOILS.
- 10. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS WELL AS STOCKPILES ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY FOLLOWING GRADING.
- CONSTRUCT UTILITY LINES (WATER/ELECTRIC.GAS.COMMUNICATIONS.SANITARY SEWERS/STORM SEWERS), CONSTRUCT BUILDING AND INSTALL INFRASTRUCTURE IMPROVEMENTS.
- 12. BOX OUT ROADWAY AND PAVEMENT AREAS AND INSTALL CONCRETE CURBING.
- 13. CONSTRUCT ASPHALT PAVEMENT SECTION, UP TO BINDER COURSE.
- 14. FINE GRADE AND SPREAD TOPSOIL, INSTALL LANDSCAPING PLANTINGS AND HARDSCAPES, SITE AMENITIES AND PERMANENT SEEDING.
- (1) THAT THE SITE HAS ACHIEVED 80% STABILIZATION AND (2) THE INSTALLED STORMWATER FACILITIES ARE OPERATIONAL.

15. TOWN OF BETHLEHEM (MS4) SHALL CONDUCT A SITE INSPECTION TO DETERMINE

- 16. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL FEATURES UPON ESTABLISHMENT OF PERMANENT GROUND COVER AND INSPECTION/APPROVAL FROM A TOWN OFFICIAL OR REPRESENTATIVE.
- 17. NOTIFY OWNERS REPRESENTATIVE OF COMPLETION OF FINAL SITE STABILIZATION.
- 18. FILE NOTICE OF TERMINATION.

WATER MAIN INSTALLATION:

- 1. WATER SERVICE LINE (LATERALS) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS AND SPECIFICATIONS OF THE ALBANY COUNTY HEALTH DEPARTMENT, AND THE LOCAL WATER AUTHORITY.
- 2. ALL EROSION CONTROL MEASURES SHALL BE EMPLOYED DURING ALL PHASES OF CONSTRUCTION IN ACCORDANCE WITH ALL APPROPRIATE STANDARDS AND REQUIREMENTS. BEST MANAGEMENT PRACTICES ARE TO BE FOLLOWED.
- 3. WATER MAINS AND ALL WATER SERVICE LINES SHALL HAVE A MINIMUM OF 5 FEET OF COVER FROM FINISH GRADE TO TOP OF PIPE.
- 4. THE MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER MAINS SHALL BE 18" MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SEWER MAINS SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE, WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECT FILL) SHALL BE PROVIDED FOR THE SEWERS TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING THE WATER MAINS.
- 5. HYDRANT TYPE SHALL BE AS NOTED ON THE PLANS OR AS REQUIRED BY THE OWN OF BETHLEHEM. GUARD VALVES SHALL BE USED AND ALL HYDRANT STUB PIPING SHALL BE MECHANICAL JOINT. FIRE HYDRANT WEEP HOLES (DRAINS) SHALL BE PLUGGED WHEN GROUND WATER IS ENCOUNTERED WITHIN 7 FEET OF THE FINISHED GRADE. ALL PLUGS SHALL BE MECHANICAL METAL PLUGS. ALL HYDRANTS WITH PLUGGED WEEP HOLES SHALL BE APPROPRIATELY TAGGED.
- 6. ALL MECHANICAL JOINTS, FITTINGS (TEES, BENDS, PLUGS), ETC. SHALL BE BACKED WITH 3,000 P.S.I. CONCRETE THRUST BLOCKS OR APPROVED MECHANICAL RESTRAINTS.
- 7. WHERE PIPING IS TO BE PLACED WITHIN FILL AREAS, THE FILL SHALL BE PLACED AND COMPACTED TO AT LEAST 95% MODIFIED PROCTOR PRIOR TO TRENCH EXCAVATION.
- 8. SHUTDOWN OF EXISTING WATER MAINS SHALL BE IN ACCORDANCE WITH THE LOCAL WATER AUTHORITY. THE TOWN OF BETHLEHEM WATER AND SEWER MANAGER MUST BE NOTIFIED IN ADVANCE OF ALL PROPOSED SHUTDOWNS IN ACCORDANCE WITH THEIR DIRECTION. WATER MUST BE TURNED BACK ON AS SOON AS POSSIBLE. ALL ENDS OF WATER MAINS MUST BE PROVIDED WITH ADEQUATE PLUG, BLOCK, AND BLOW-OFF AS INDICATED ON THE PLANS.
- 5. WATER SERVICE LINES SHALL BE SEPARATED AT LEAST 10 FEET, MEASURED FROM OUTSIDE OF THE PIPES, FROM SEWER MAINS AND SEPTIC SYSTEMS.
- 6. BACKFLOW PREVENTION SHALL BE PROVIDED IN BUILDING.
- 7. BACKFLOW PREVENTION APPLICATION MUST BE SUBMITTED TO AND APPROVED BY THE SUPPLIER WHO WILL FORWARD THE PLANS TO THE NYS DEPARTMENT OF HEALTH FOR THEIR APPROVAL. THE APPROVAL PROCESS MUST BE COMPLETED PRIOR TO INSTALLATION. THE APPROVAL PROCESS SHOULD BE STARTED EARLY TO AVOID UNNECESSARY DELAYS OR CONFLICTS WITH OTHER HEALTH DEPARTMENT APPROVALS.

WATER MAIN MATERIALS:

- 1. ALL WATER MAINS AND SERVICE MATERIALS SHALL BE IN CONFORMANCE WITH THE TOWN OF BETHLEHEM STANDARD SPECIFICATION MANUAL.
- 2. CEMENT-LINED DUCTILE-IRON (DI) PIPE OF 12" DIAM. MUST BE CLASS 52 MINIMUM CONFORMING WITH THE LATEST REVISION OF ANSI/AWWA C151/A21.51 STANDARD WITH UNDERWRITERS LABORATORIES, FACTORY MUTUAL AND NSF 61 APPROVALS. THE PIPE JOINTS SHALL USE A SINGLE, ELONGATED GASKET TO AFFECT THE JOINT SEAL. THE PIPE SHALL BE PAINT SEAL COATED IN CONFORMANCE WITH ANSI/AWWA C104/A21.4. ALL BURIED DI PIPE, FITTINGS, AND APPURTANCES SHALL WRAPPED WITH A MINIMUM 8 MIL. V-BIO ENHANCED POLYETHYLENE WRAP AS PER LATEST REVISION OF ANSI/AWWA C105 STANDARD.
- 3. HIGH DENSITY POLYETHYLENE (HDPE) PRESSURE PIPE SHALL BE DUCTILE IRON PIPE SIZES DR-17 OR DR-11, JOINED BY MEANS OF ZERO LEAK-RATE HEAT FUSION OF ELECTRO FUSION, MEETING REQUIREMENTS OF AWWA C906. #10 HDPE HIGH-FLEX STAINLESS STEEL TRACER CABLE IS REQUIRED TO BE INSTALLED ALONG CENTERLINE OF MAINLINE.

WATER SYSTEM TESTS:

- 1. SOIL TEST. THE CONTRACTOR SHALL PROVIDE A SOIL TEST EVALUATION TO DETERMINE THE NEED FOR POLYETHYLENE ENCASEMENT PER ANSI/AWWS C105/AZ1.5-82 PRIOR TO WATER MAIN INSTALLATION. SOIL TESTING SHALL BE CONDUCTED BY AN APPROVED SOIL TESTING LABORATORY IN ACCORDANCE WITH LOCAL WATER AUTHORITY STANDARDS.
- 2. WATER PIPING SHALL BE FLUSHED AND TESTED IN CONFORMANCE WITH THE LATEST REVISION OF ANSI/AWWA C600 STANDARD FOR DUCTILE IRON PIPE, C605 FOR PVC PIPE, OR EQUIVALENT OF C600 AND/OR C605 FOR PE PIPE.
- 3. THE PROPOSED WORKS MUST CONFORM TO THE LATEST REVISION OF ANSI/AWWA C651 STANDARD, TABLET METHOD EXCEPTED. FOLLOWING FLUSHING AND TESTING, THE ENGINEER SHALL OVERSEE COLLECTION OF AN APPROPRIATE NUMBER OF BACTERIOLOGICAL SAMPLES FOR THE TOTAL AND FECAL COLIFORM AND FOR STANDARD BACTERIAL PLATE COUNT AFTER THE FIELD FREE CHLORINE RESIDUAL IS LESS THAN 1.5 PPM AND THE SAMPLING POINTS HAVE BEEN DECONTAMINATED. PRIOR TO SAMPLING. THE ENGINEER SHALL COORDINATE THE APPROPRIATE NUMBER AND LOCATION OF SAMPLES TO BE COLLECTED WITH THE ALBANY COUNTY HEALTH DEPARTMENT.
- 4. THE COMPLETED WORKS SHALL BE VERIFIED WITH ALBANY COUNTY HEALTH DEPARTMENT. PRIOR TO ISSUANCE, A NYS-LICENCED PROFESSIONAL ENGINEER MUST SUBMIT CERTIFICATION TO THE HEALTH DEPARTMENT THAT: THEY OR THEIR DESIGNATED REPRESENTATIVE WITNESSED THAT CONSTRUCTION WAS IN CONFORMANCE WITH THE PLANS AS APPROVED; FLUSHING, TESTING, AND DISINFECTION PROCEDURES NOTED HEREIN HAD BEEN PROPERLY PERFORMED; AND, MICROBACTERIAL SAMPLE RESULTS FROM THE COMPLETED WORKS WERE ACCEPTABLE. COPIES OF THE OFFICIAL LABORATORY RESULTS ARE TO BE INCLUDED WITH THE CERTIFICATION.
- 5. FIRE HYDRANTS ARE NOT ACCEPTABLE TESTING/SAMPLING POINTS.
- 6. WATER SERVICE LINES SIZED 4-INCHES OR GREATER SHALL BE:

- PRESSURE TESTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE LOCAL WATER AUTHORITY. THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE FROM THE LOCAL WATER AUTHORITY.

- DISINFECTION BY USING THE CONTINUOUS FEED METHOD ACCORDING TO AWWA STANDARD SPECIFICATIONS. AFTER FLUSHING AND DISINFECTING THE SERVICE LINE, WATER SAMPLES SHALL BE COLLECTED BY THE ALBANY COUNTY HEALTH DEPARTMENT. APPROVAL AND NOTIFICATION BY THE HEALTH DEPARTMENT MUST BE RECEIVED BEFORE THE LATERAL IS PLACED IN SERVICE.

DIRECTIONAL BORING/DRILLING NOTES:

- CONTRACTOR SHALL OBTAIN HIGHWAY WORK PERMIT FROM NYSDOT PRIOR TO COMMENCING UTILITY WORK. REFER TO NYSDOT "BLUE BOOK" FOR GUIDANCE, SUBMITTAL INFORMATION AND DETAILS. GUIDANCE WITHIN "BLUE BOOK" SUPERCEDES NOTES 2-7 BELOW.
- PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A WORK PLAN OUTLINING THE PROCEDURE AND SCHEDULE TO BE USED TO EXECUTE THE DIRECTIONAL BORING.
- CONTRACTOR SHALL SUBMIT SPECIFICATIONS ON DIRECTIONAL BORING EQUIPMENT TO BE USED AND ENSURE THAT THE EQUIPMENT WILL BE ADEQUATE TO COMPLETE THE PROJECT.
- THE DIRECTIONAL BORING EQUIPMENT SHALL CONSIST OF A DIRECTIONAL BORING RIG OF SUFFICIENT CAPACITY TO PERFORM THE BORE AND PULLBACK THE PIPE, A BORING FLUID MIXING & DELIVERY SYSTEM OF SUFFICIENT CAPACIT TO SUCCESSFULLY COMPLETE THE RUNS, A GUIDANCE SYSTEM TO ACCURATEL' GUIDE BORING OPERATIONS AND TRAINED AND COMPETENT PERSONNEL TO OPERATE THE SYSTEM. ALL EQUIPMENT SHALL BE IN GOOD, SAFE OPERATING CONDITION WITH SUFFICIENT SUPPLIES, MATERIALS AND SPARE PARTS ON HAND TO MAINTAIN THE SYSTEM IN GOOD WORKING ORDER FOR THE DURATION OF THIS PROJECT.
- THE ENGINEER MUST BE NOTIFIED 48 HOURS IN ADVANCE OF STARTING A BORE. THE DIRECTIONAL BORE SHALL NOT BEGIN UNTIL THE ENGINEER IS PRESENT AT THE SITE. THE ENGINEER'S APPROVAL FOR BEGINNING THE INSTALLATION SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE ULTIMATE RESPONSIBILITY FOR THE SATISFACTORY COMPLETION OF THE WORK.
- 6. CONTRACTOR SHALL NOT COMMENCE BORING OPERATIONS UNTIL THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE WORK AREA HAVE BEEN VERIFIED AND MARKED OUT.
- 7. FOLLOWING BORING OPERATIONS. CONTRACTOR WILL DE-MOBILIZE EQUIPMENT AND RESTORE THE WORK-SITE TO ITS ORIGINAL CONDITION. ALL EXCAVATIONS WILL BE BACKFILLED AND COMPACTED TO 95% OF ORIGINAL DENSITY.
- 8. CONTRACTOR SHALL PROVIDE SUBMITTAL DESCRIBING IN DETAIL PROPOSED METHOD AND ENTIRE OPERATION INCLUDING, BUT NOT LIMITED TO:
 - SIZE, CAPACITY AND ARRANGEMENT OF EQUIPMENT.
 - LOCATION AND SIZE OF DRILLING AND RECEIVING PITS AS REQUIRED. DEWATERING AND METHODS OF REMOVING SPOILS MATERIAL.
 - METHOD OF INSTALLING DETECTION WIRE AND PIPE. TYPE, LOCATION AND METHOD OF INSTALLING LOCATOR STATION.
 - METHOD OF FUSION PIPE SEGMENT AND TYPE OF EQUIPMENT. TYPE OF CUTTING HEAD.
 - METHOD OF MONITORING AND CONTROLLING LINE AND GRADE.
 - DETECTION OF SURFACE MOVEMENT.
- BENTONITE DRILLING MUD FOR INFORMATION ONLY: PRODUCTS INFORMATION, MATERIAL SPECIFICATIONS, AND HANDLING
- PROCEDURES. MATERIAL SAFETY DATA SHEET AND SPECIAL PRECAUTIONS REQUIRED.
- METHOD OF MIXING AND APPLICATION.
- DETECTABLE WARNING TAPE. PROPERTIES OF BENTONITE-CEMENT ANNULAR SPACE FILL MATERIAL.

PLANNING BOARD HTE# 21-00100006

TCH

TCH

AJF

1"=150'

MAY-10-2022

18641.00

DRAWN

DESIGNED

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PROJECT

SCALE

SUITE 402

TOWN COMMENTS

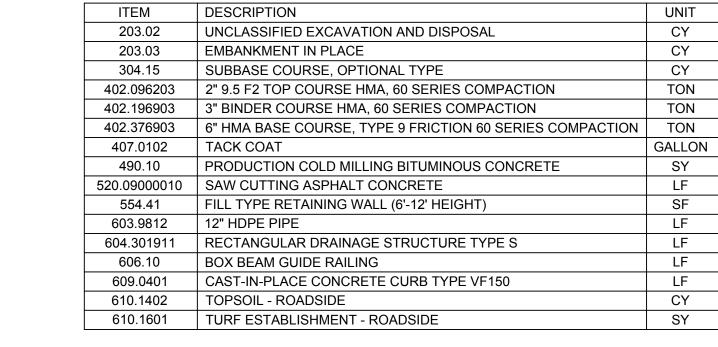
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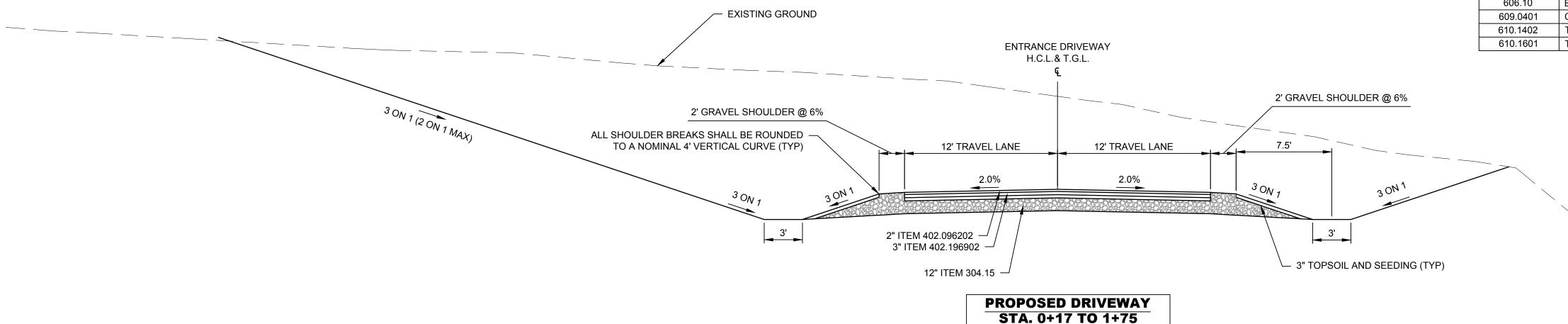
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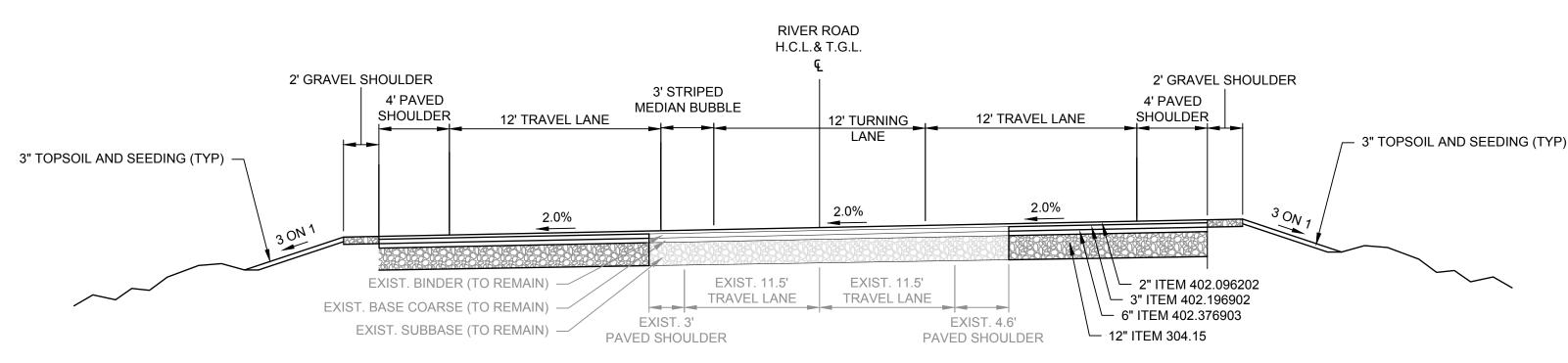
GENERAL NOTES

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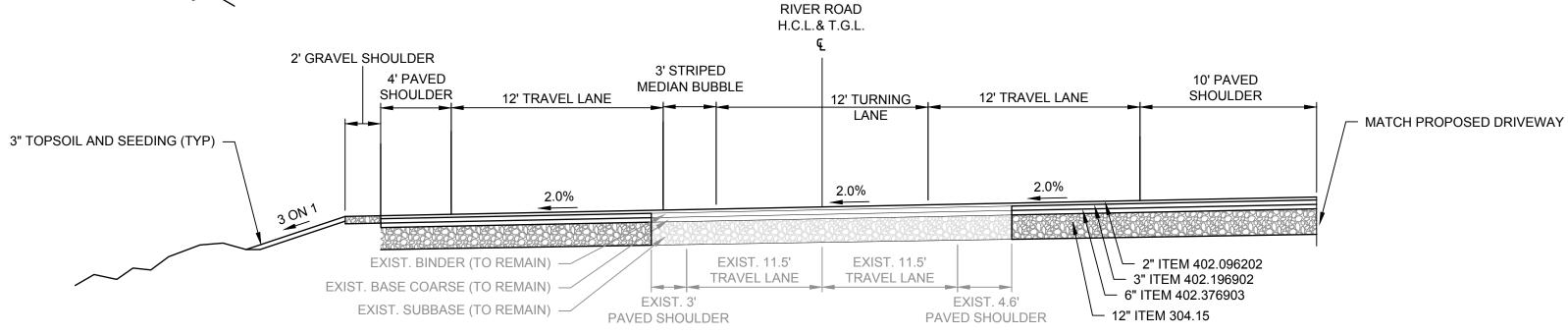




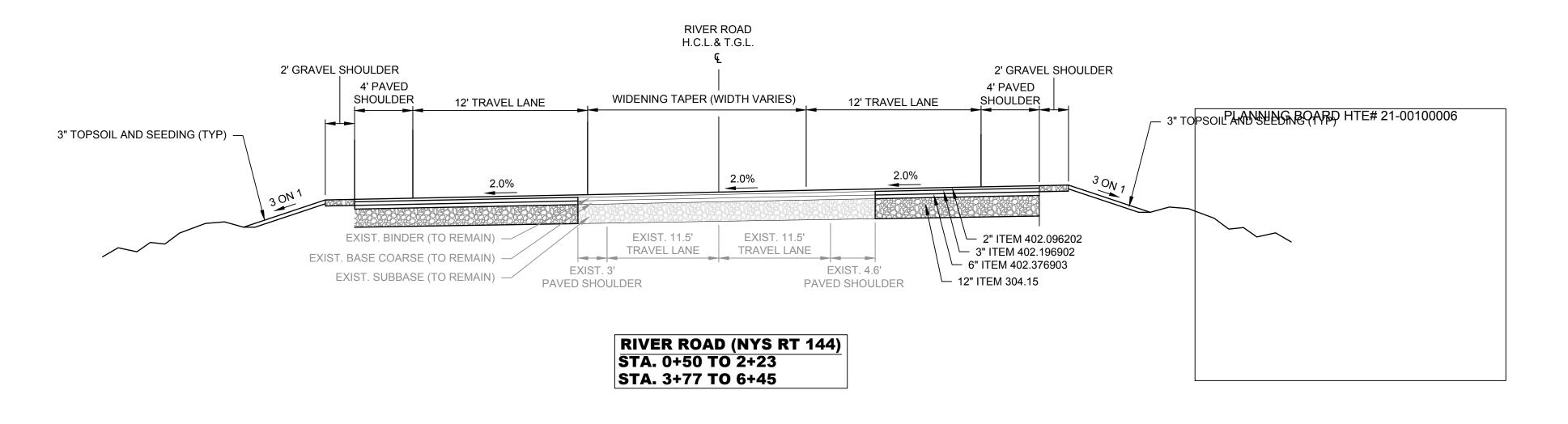
RIVER ROAD (NYS RT 144) STA. 3+26 TO 3+77

PAVEMENT CONSTRUCTION NOTES

- 1. HMA ITEMS ARE BASED ON PG 64-22 BINDER, ESALS LESS THAT 30,000,000. TACK COAT IS REQUIRED BETWEEN ALL LIFTS OF ASPHALT. TACK COAT IS REQUIRED BETWEEN ALL LIFTS OF ASPHALT. USE OF POLYPHOSPHORIC ACID (PPA) TO MODIFY THE PG BINDER PROPERTIES IS PROHIBITED. THIS PROHIBITION ALSO APPLIES TO THE USE OF PPA AS A CROSS-LINKING AGENT FOR POLYMER MODIFICATION.
- 2. BUTT JOINTS, CREATED BY A FULL-DEPTH SAW-CUT ITEM #627.50140008, SHALL BE USED BETWEEN NEW AND EXISTING PAVEMENTS. THE ASPHALT TOP COURSE SHALL BE LAID SUCH THAT IT UNIFORMLY OVERLAPS THE ADJACENT COLD MAT BY 2"-3". THE THICKNESS OF THE OVERLAP MATERIAL SHALL BE 1/4 THE COMPACTED THICKNESS OF THE COURSE, SO AS TO RESULT IN A SMOOTH AND WELL COMPACTED JOINT AFTER ROLLING. BROADCASTING OF THE OVERLAP MATERIAL ONTO THE LANE IS NOT ALLOWED. IF THE OVERLAP IS EXCESSIVE, THE EXCESS MATERIAL SHALL BE TRIMMED OFF SO THAT THE MATERIAL ALONG THE JOINT IS UNIFORM. THE COARSE PARTICLES OF AGGREGATE IN THE OVERLAP MATERIAL SHALL BE REMOVED AND WASTED IF DEEMED NECESSARY BY THE INSPECTOR. ASPHALT PAVEMENT JOINT ADHESIVE SHALL BE USED ON VERTICAL FACES FOR ALL OF THE JOINTS ON THE SURFACE COURSE SUCH AS LONGITUDINAL, TRANSVERSE AND OTHER JOINTS BUTTING AGAINST THE NEW ASPHALT PAVEMENT.
- 3. DESIGN PGB CONTENT SELECTION
- THE PRODUCER SELECTS THE DESIGN PGB CONTENT AT THE BINDER CONTENT THAT RESULTS IN COMPACTED DENSITY OF 96.5% GMM AT THE DESIGN NUMBER OF GYRATIONS (NDESIGN). UNDER NO CIRCUMSTANCES SHALL THE PERFORMANCE GRADED BINDER CONTENT IN THE HMA MIXTURE BE LESS THAN 5.8% FOR A 9.5 DESIGN, 5.2% FOR A 12.5 DESIGN, 4.5 FOR A 19.0 DESIGN, 4.2%FOR A 25.0 DESIGN, OR 3.7% FOR A 37.5 DESIGN. ALL VOLUMETRIC AND MECHANICAL PROPERTIES ARE CHECKED AT THIS PGB CONTENT TO ENSURE THAT ALL REQUIREMENTS ARE MET.
- 4. PERFORM ALL WARRANTY WORK IN ACCORDANCE WITH MATERIALS PROCEDURE (MP) 402-01, WARRANTY REQUIREMENTS FOR HOT MIX ASPHALT (HMA) TOP COURSE.
- 5. AS PER STANDARD SPECIFICATION SECTION 401-4.01 CERTIFIED PRODUCTION, PRODUCTION LESS THAN 500 TONS, AND HIGHWAY PERMIT PRODUCTION, PRODUCTION MEETING THE SPECIFICATION REQUIREMENTS WILL BE ASSIGNED A QAF OF 1.00. PRODUCTION FAILING TO MEET THE SPECIFICATION REQUIREMENTS WILL BE SUBJECT TO EVALUATION ACCORDING TO SECTION 401-4.03, EVALUATION OF SUB-LOTS REPRESENTED BY 0.85 QAF.



RIVER ROAD (NYS RT 144) STA. 2+55 TO 3+52



McFarland Johnson

60 RAILROAD PLACE SUITE 402 SARATOGA SPRINGS, NEW YORK 12866 P:518-580-9380 F:518-580-9383 SaratogaROM@mjinc.com

PROJECT MILESTONE

FINAL DESIGN PLANS

NO. DATE DESCRIPTION

1 05/20/22 TOWN COMMENTS

COMMISSION

ORK

FF-SITE

ROVEMENTS

ALBANY, NEW YORK
PROJECT:
PORT OF ALBANY OFF-SITI

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SCALE N.T.S.
DATE MAY-10-2022
PROJECT 18641.00



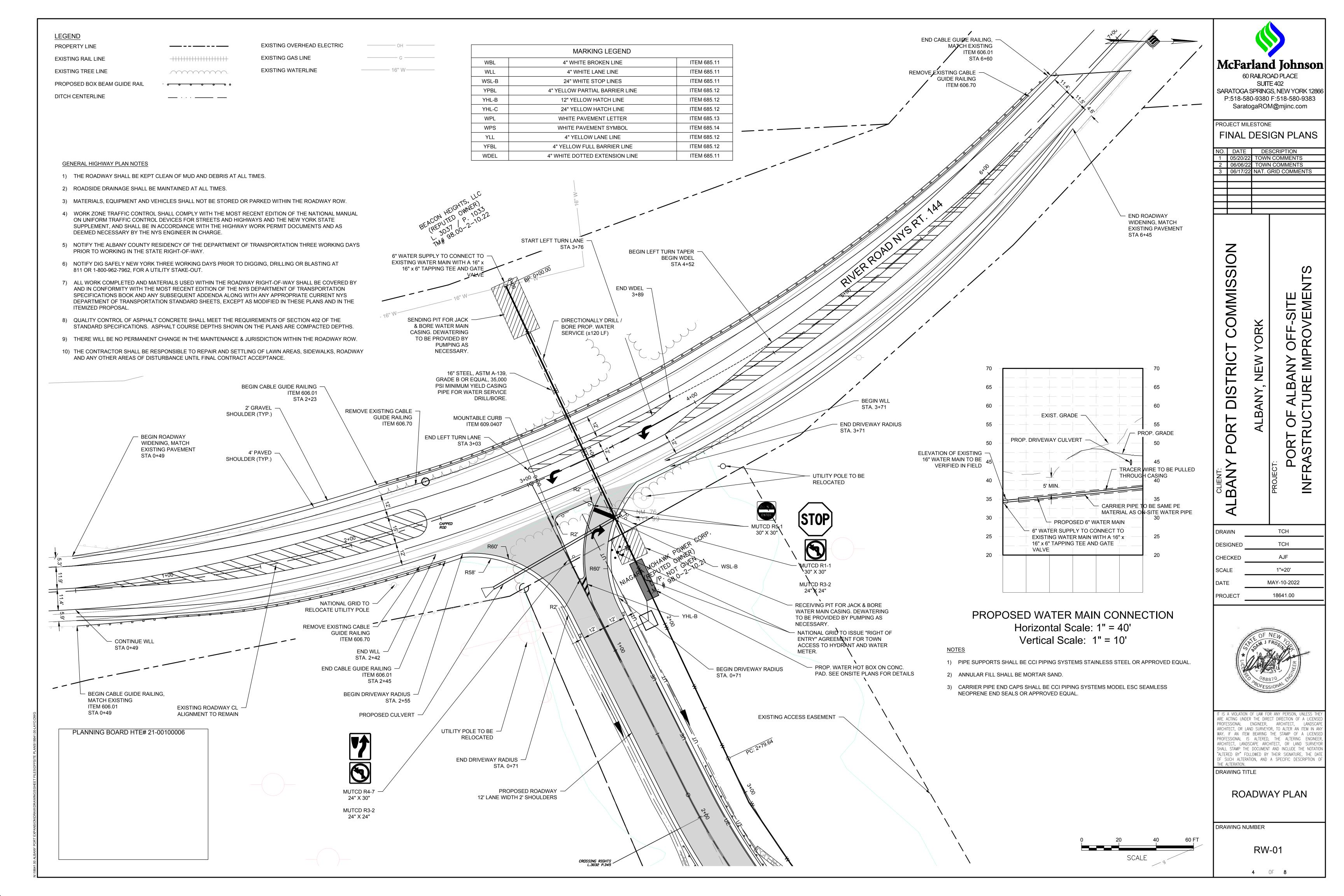
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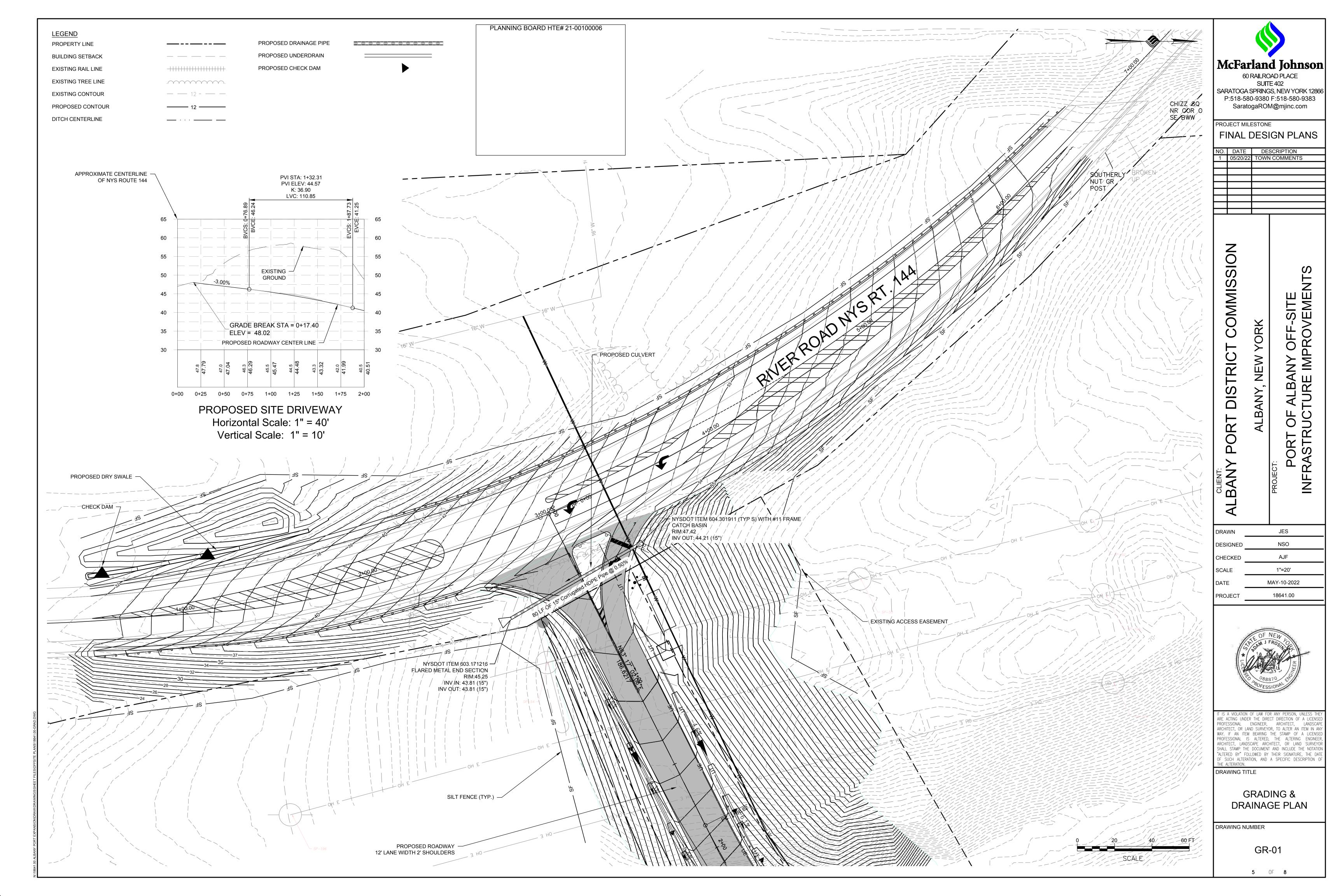
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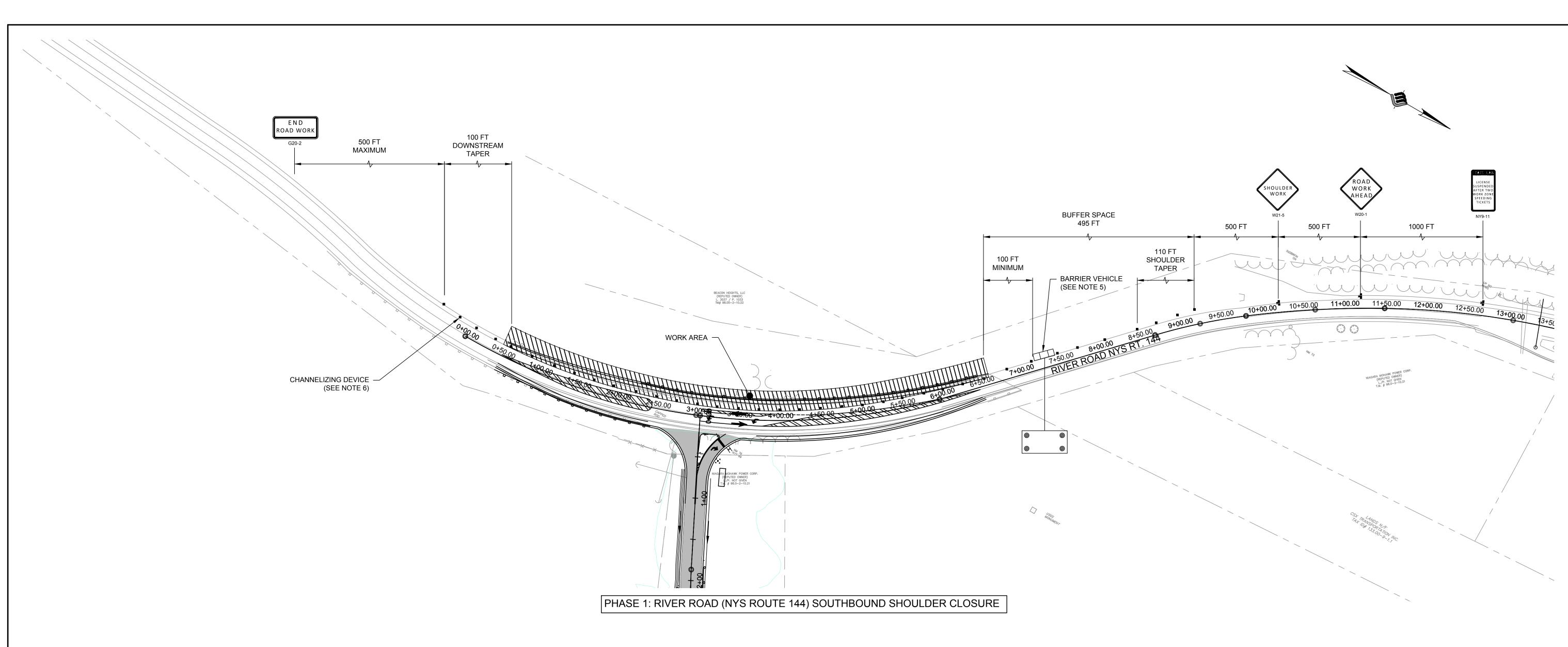
TYPICAL SECTIONS

DRAWING NUMBER

TP-01







WORK ZONE TRAFFIC CONTROL

IMPLEMENTATION OF SUCH REVISIONS.

GENERAL

- 1. THE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS AND IN THE MUTCD, REFLECT THE MINIMUM REQUIREMENTS.
- 2. THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE FIVE (5) WORK DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE SCOPE OF THE TRAFFIC CONTROL PLAN. SUCH CHANGES IN SCOPE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE THIRTY (30) WORKING DAYS PRIOR TO
- 3. THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS, THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO REGIONAL MANAGEMENT, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, AND THE LOCAL POLICE.

ACTIVITY AREA

- 1. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 500' LONGITUDINAL DISTANCE BETWEEN CONSTRUCTION OPERATIONS ON ALTERNATE SIDES OF THE ROADWAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- 2. WHEN TWO OR MORE AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY, THE CONTRACTOR SHALL ENSURE THERE ARE NO CONFLICTING SIGNS AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.

LANE WIDTHS

- 1. UNLESS AUTHORIZED BY THE ENGINEER, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: FREEWAYS AND/OR EXPRESSWAYS IS 11'. THE MINIMUM LANE WIDTH FOR ALL OTHER TYPES OF ROADWAYS IS 10'.
- 2. THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE ENGINEER, A MINIMUM OF 21 CALENDAR DAYS IN ADVANCE OF PERFORMING ANY WORK THAT RESULTS IN THE REDUCED WIDTH OF AN EXISTING ROADWAY, SO THAT THE ENGINEER MAY NOTIFY THE REGIONAL PERMIT ENGINEER IN A TIMELY MANNER.

SIGNS

- 1. THE LOCATIONS OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.
- 2. ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.
- 3. SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT
- OBSTRUCT A MOTORIST'S LINE OF SIGHT. 4. ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF MULTI-LANE RAMPS, AND ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT
- ENGINEER. 5. THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCD. ANY CHANGES TO THE DIMENSIONS SHALL BE APPROVED BY THE REGIONAL DIRECTOR OR BY HIS/HER DESIGNEE

SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE

- 6. NYR9-12 MAY BE USED IN PLACE OF NYR9-11.
- 7. W3-3 AND FLASHING BEACON SHALL BE PLACED AT THE LOCATIONS SHOWN AFTER SIGNAL IS OPERATIONAL. FLASHING BEACON WILL BE LEFT IN PLACE FOR 30 (THIRTY) DAYS AFTER SIGNAL BECOMES OPERATIONAL.

BARRIER/SHADOW VEHICLES

- 1. BARRIER AND SHADOW VEHICLES SHALL BE REQUIRED AS PER STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
- 2. NO WORK ACTIVITY, EQUIPMENT, VEHICLES AND/OR MATERIALS SHALL BE LOCATED BETWEEN THE BARRIER OR SHADOW VEHICLE AND THE ACTIVE WORK AREA (ROLL AHEAD DISTANCE).
- 3. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE A BARRIER VEHICLE IN CONJUNCTION WITH POLICE PRESENCE IN THE WORK ZONE, TO BE INCLUDED IN THE UNIT BID PRICE FOR BASIC WORK ZONE TRAFFIC CONTROL.

CHANNELIZING DEVICES

1. WHERE POSSIBLE ALL CHANNELIZING AND GUIDING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 2' LATERAL CLEARANCE TO THE TRAVELED WAY.

LANE CLOSURES

- 1. THE DEPARTMENT RETAINS THE RIGHT TO CANCEL ANY WORK OPERATIONS INCLUDING LANE CLOSURE AND/OR TOTAL ROAD CLOSURES THAT WOULD BE AFFECTED BY UNFORESEEN MAJOR EVENTS THAT MAY CREATE TRAFFIC DELAYS SEVEN (7) CALENDAR DAYS PRIOR TO THE PROPOSED WORK. SPECIFIC DATES ARE YET TO BE DETERMINED.
- 2. PEDESTRIAN ACCOMODATIONS MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

DAILY CLOSURE RESTRICTIONS

THERE SHALL BE NO TEMPORARY LANE CLOSURES ON STATE HIGHWAYS DURING THE FOLLOWING DAYS AND TIMES: MONDAY - FRIDAY: 6:00 A.M. THROUGH 9:00 A.M. 3:00 P.M. THROUGH 6:00 P.M.

HOLIDAY CLOSURE RESTRICTIONS

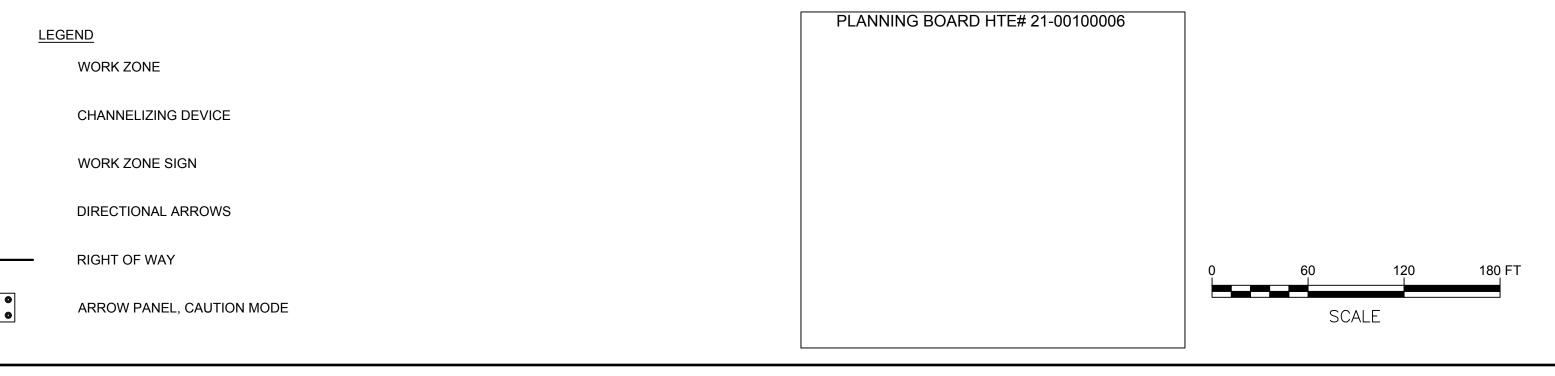
THERE SHALL NOT BE TEMPORARY LANE CLOSURES ON (RTE 144) DURING THE FOLLOWING DATES:

6:00 AM, FRIDAY, DECEMBER 31, 2022 THRU 6:00 AM, MONDAY JANUARY 3, 2022 - (NEW YEAR'S DAY) 6:00 AM, FRIDAY, MAY 27, 2022 THRU 6:00 AM TUESDAY, MAY 31, 2022 - (MEMORIAL DAY HOLIDAY) 6:00 AM, FRIDAY, JULY 1, 2022 THRU 6:00 AM, TUESDAY, JULY 5, 2022 - (INDEPENDENCE DAY HOLIDAY) 6:00 AM, FRIDAY, SEPTEMBER 2, 2022 THRU 6:00 AM, TUESDAY, SEPTEMBER 6, 2022 - (LABOR DAY HOLIDAY) 6:00 AM WEDNESDAY, NOVEMBER 23, 2022 THRU 6:00 AM MONDAY, NOVEMBER 28, 2022 - (THANKSGIVING DAY HOLIDAY) 6:00 AM THURSDAY, DECEMBER 22, 2022 THRU 6:00 AM MONDAY, DECEMBER 26, 2022 - (CHRISTMAS DAY HOLIDAY)

PUBLIC ACCESS

- PROPERTY OWNERS WHOSE DRIVEWAYS WILL BE MADE INACCESSIBLE SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 24 HOURS PRIOR TO RESTRICTING USE OF THE DRIVEWAY. FOR MULTIPLE ACCESS PROPERTIES, AT LEAST ONE DRIVEWAY SHALL BE OPEN AT ALL TIMES. ACCESS SHALL BE RESTORED TO ALL DRIVEWAYS AS SOON AS POSSIBLE.
- 2. SUITABLE RAMPS SHALL BE INSTALLED TO MAINTAIN SMOOTH TRANSITIONS FROM RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO AND FROM THE WORK AREA.

- 1. LEFT LANE CLOSURES ARE SYMMETRICAL TO RIGHT LANE CLOSURES. SUBSTITUTE LEFT LANE CLOSED SIGN (W20-5) AND THE CORRESPONDING LANE ENDS SIGN
 - 2. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
 - 3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN
- THE ACTIVE WORK SPACE. 4. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
- 5. FOR BARRIER VEHICLE USE REQUIREMENTS SEE TABLES NY1-A AND NY2-A ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
- 6. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND TO DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVELED WAY.
- 7. WHEN WORKS AND EQUIPMENT ARE NOT ENCROACHING INTO THE TRAVEL LANE A SHOULDER CLOSURE MAY BE USED.





McFarland Johnson 60 RAILROAD PLACE SUITE 402

SARATOGA SPRINGS, NEW YORK 12866 P:518-580-9380 F:518-580-9383

SaratogaROM@mjinc.com

ROJECT MILESTONE

FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

COMMISSION **DISTRIC PORT**



TCH

TCH

AJF

1"=20'

MAY-10-2022

18641.00

ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSE PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAP ARCHITECT. OR LAND SURVEYOR. TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSI PROFESSIONAL IS ALTERED, THE ALTERING ENGINEE ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYO SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION (

DRAWING TITLE

DRAWN

DESIGNED

CHECKED

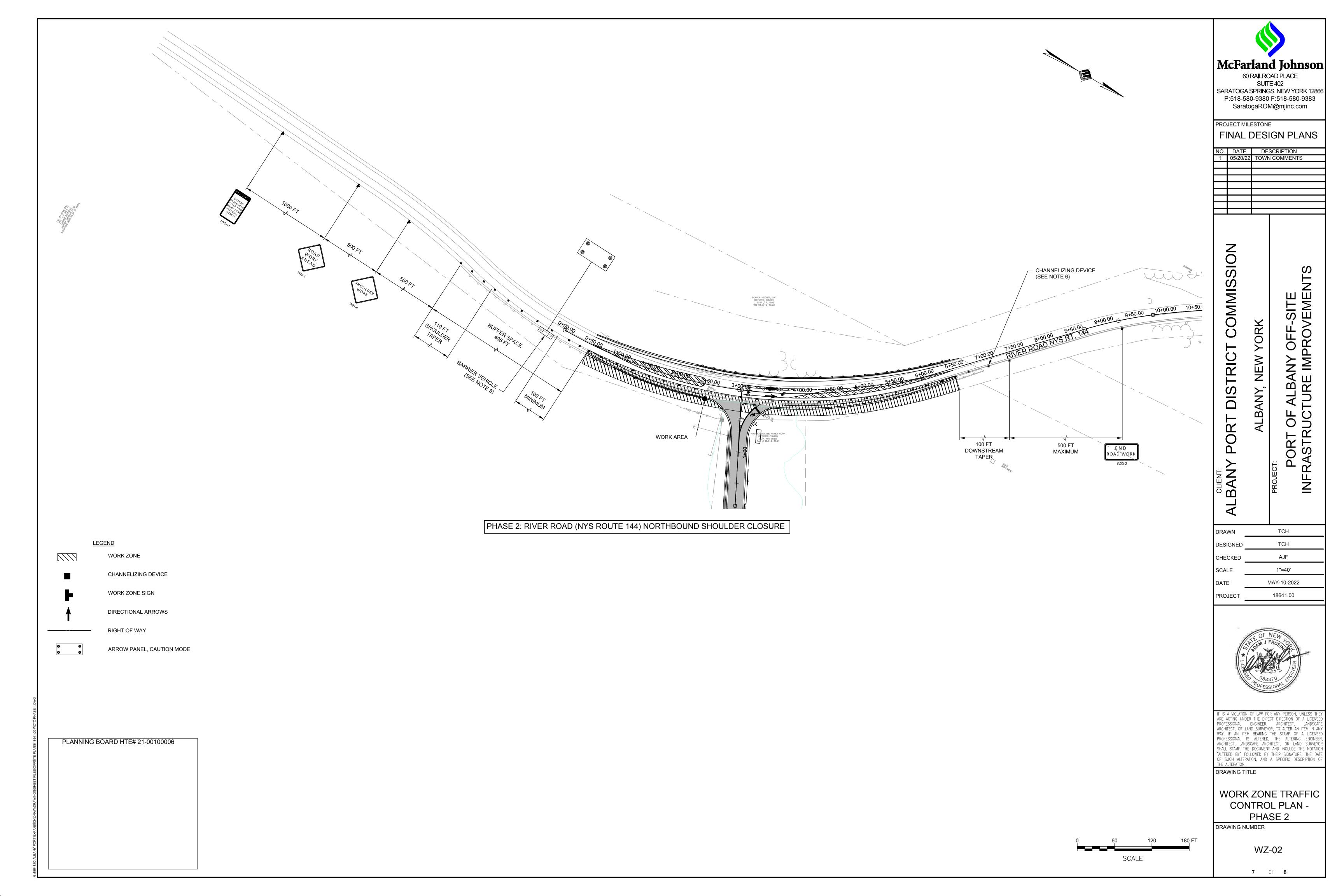
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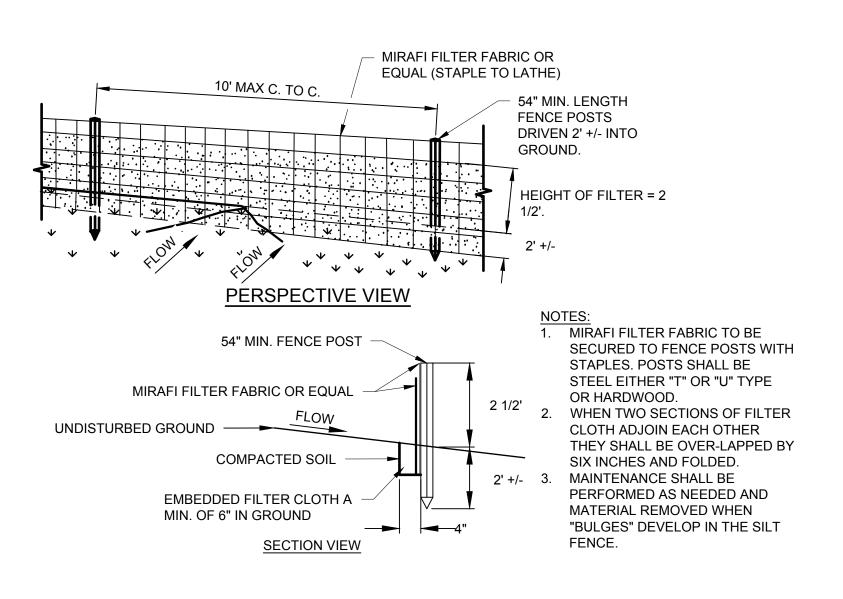
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WORK ZONE TRAFFIC CONTROL PLAN -PHASE 1

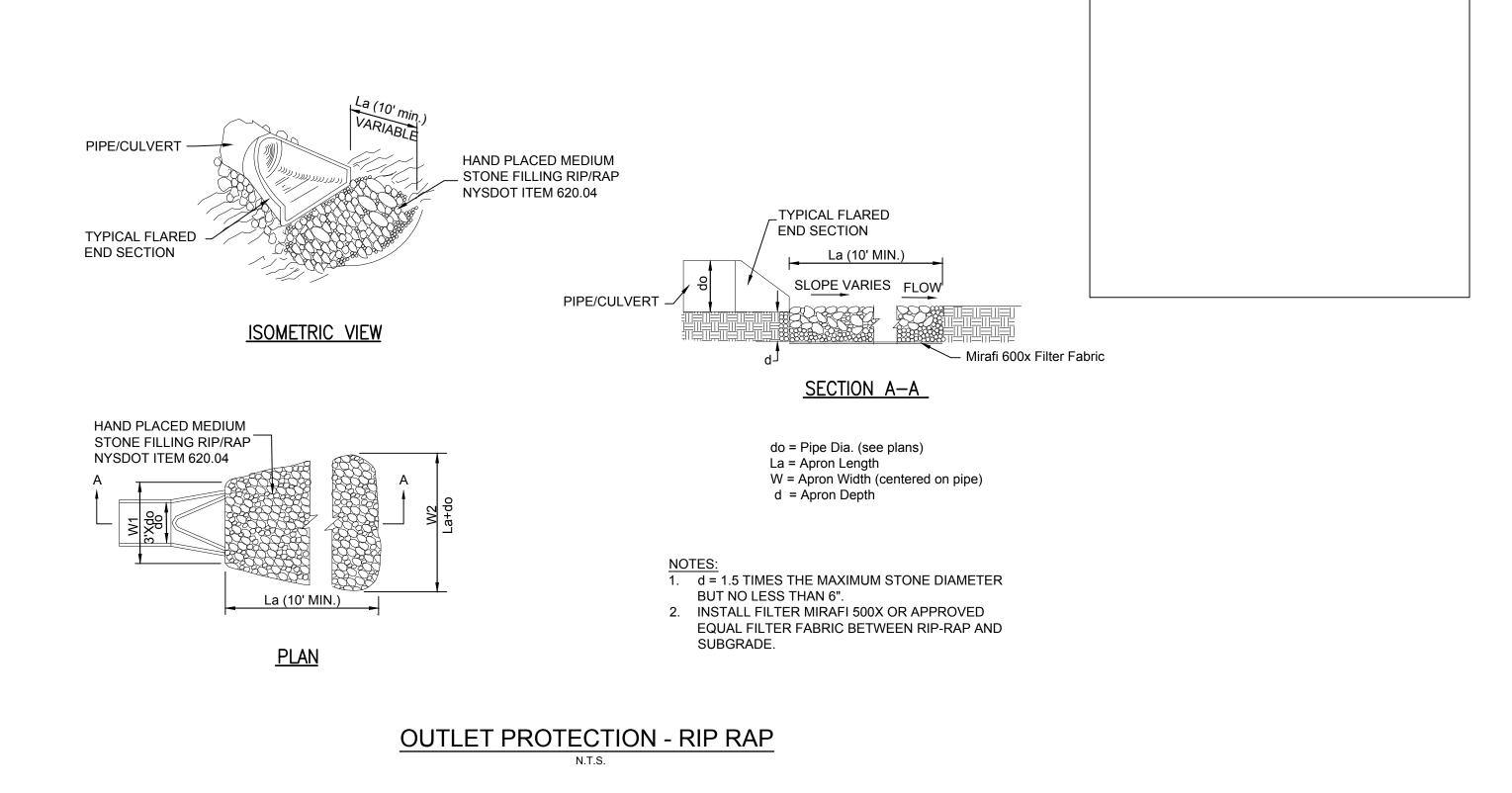
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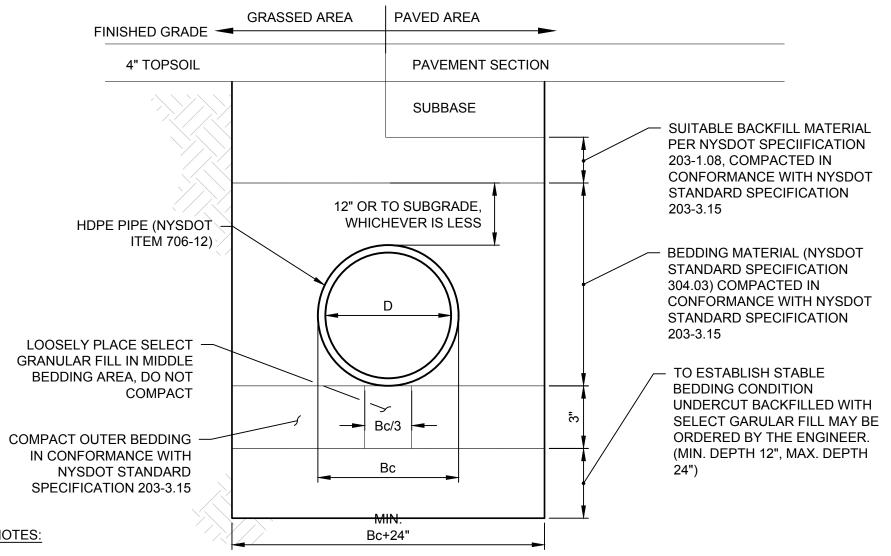
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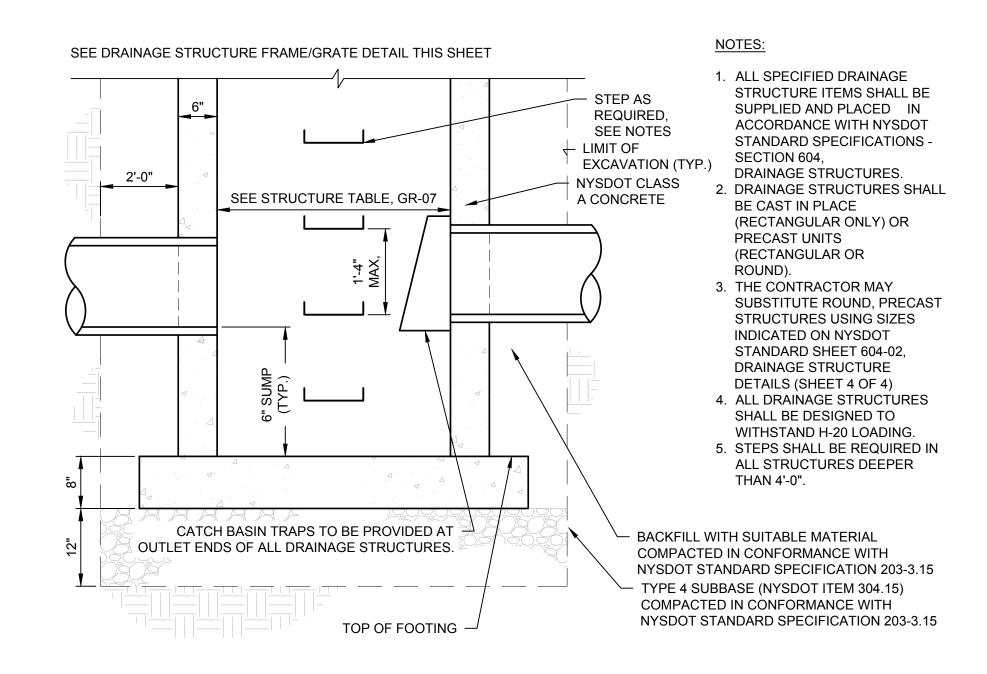
SILT FENCE



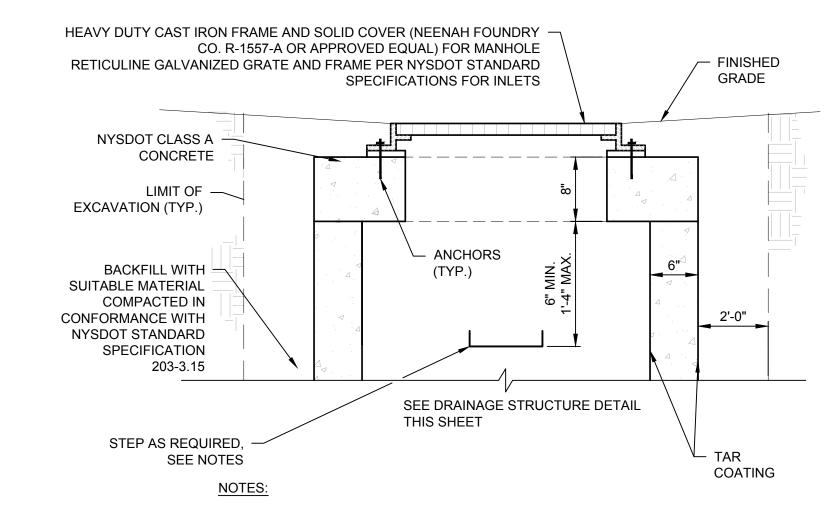


- 1. BRACING, SHEETING OR SHORING AS REQUIRED BY THE LATEST VERSION OF THE NEW YORK STATE DEPARTMENT OF LABOR AND U.S. DEPARTMENT OF LABOR O.S.H.A. REGULATIONS SHALL BE PREPARED BY A NYS LICENSED PROFESSIONAL ENGINEER. 2. ALL SPECIFIED STORM PIPE ITEMS SHALL BE SUPPLIED AND PLACED IN ACCORDANCE WITH NYSDOT STANDARD
- SPECIFICATIONS SECTION 603, CULVERT AND STORM DRAINS.

STORM PIPE BEDDING



DRAINAGE STRUCTURE



- 1. ALL SPECIFIED STORM STRUCTURE ITEMS SHALL BE SUPPLIED AND PLACED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATIONS - SECTION 604, DRAINAGE STRUCTURES.
- 2. ALL DRAINAGE STRUCTURES SHALL BE DESIGNED TO WITHSTAND H-20 LOADING. 3. STEPS SHALL BE REQUIRED IN ALL STRUCTURES DEEPER THAN 4'-0".

DRAINAGE STRUCTURE FRAME AND GRATE

McFarland Johnson

SARATOGA SPRINGS, NEW YORK 12866 P:518-580-9380 F:518-580-9383 SaratogaROM@mjinc.com

60 RAILROAD PLACE SUITE 402

PROJECT MILESTONE

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COMMIS

DISTRICT

PLANNING BOARD HTE# 21-00100006

FINAL DESIGN PLANS

NO. DATE DESCRIPTION TOWN COMMENTS

DRAWN TCH TCH DESIGNED AJF CHECKED SCALE 1"=40' MAY-10-2022

18641.00



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DRAWING TITLE

PROJECT

MISCELLANEOUS DETAILS

DRAWING NUMBER

DT-01

