MULTI SITE CULVERT REPLACEMENTS: LOA 2 - TRACY ROAD CULVERT AT FEEDER POND OUTLET FEMA PROJECT #133369 LOA 3 - JOHNSON POND ROAD CULVERT FEMA PROJECT #133370 LOA 7 - EMERSON ROAD CULVERT FEMA PROJECT #133373 SITE OF WORK TOWNS OF MORIAH, NORTH HUDSON, SCHROON ESSEX COUNTY, NY

> PREPARED FOR: **ESSEX COUNTY DEPARTMENT** OF PUBLIC WORKS 8053 US ROUTE 9 ELIZABETH, NY 12932

THE LATEST REVISIONS OF THE NYSDOT STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, WHICH ARE CURRENT AS OF THE STANDARD SPECIFICATIONS ADOPTION DATE SHOWN ON THE PROPOSAL COVER, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE NYSDOT STANDARD SPECIFICATIONS (US CUSTOMARY) MAINTAINED BY THE DEPARTMENT WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYSDOT POLICIES AND

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE 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, LANDSCAPE 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.

ROGERS BROOK 43°50′13.3" N/73°46′27.7" W SCHROON LAKE PRECAST BOX CULVERT

TOWN

MORIAH

LATITUDE/LONGITUDE

FEEDER POND OUTLET 44°04′49.9" N/73°36′35.3" W

LOA 3 JOHNSON POND RD (CR 2) UNKNOWN STREAM 43°56'57.2" N/73°42'22.7" W NORTH HUDSON PRECAST BOX CULVERT

PROPOSED

STRUCTURE TYPE

PRECAST BOX CULVERT

FEATURE CARRIED

TRACY ROAD (CR 6)

EMERSON RD

SITE

LOA 2

FEATURE

CROSSING

ELIZABETH, NY 12932	LOA 7
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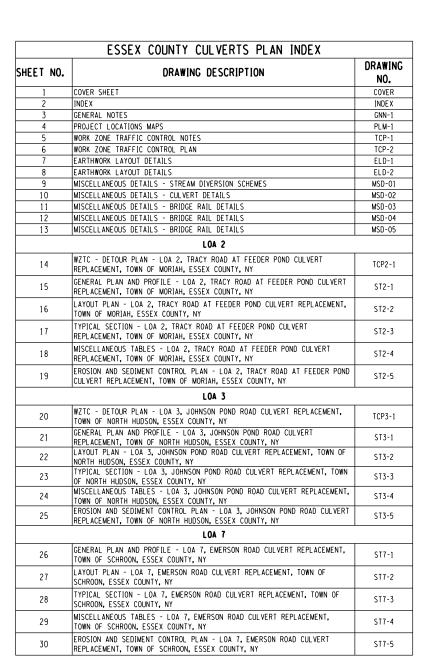
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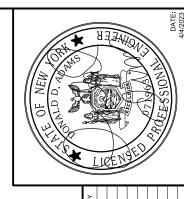
SUBMISSION: PSE APRIL 2023 STATE SHEET NO. TOTAL SHEETS 30

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ESSEX COUNTY	COLVERT REPLACEMENTS VARIOUS LOCATIONS	TOWN OF MORIAH, NY			XHCNI)) <u>=</u>		APRIL 2023 CM No.: 120-098 SCALE: AS NOTED

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NAME TIME USER PLOT

DESIGN SPECIFICATIONS: NYSDOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OF MARCH 2023.

LIVE LOAD: AASHTO HL-93

CONSTRUCTION AND MATERIALS SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, DATED JANUARY 1, 2023 WITH

ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN US CUSTOMARY UNITS.

THE LOAD RATINGS SHALL BE IN ACCORDANCE WITH THE AASHTO MANUAL FOR BRIDGE EVALUATION - THIRD

THIS CULVERT, INCLUDING EXISTING ELEMENTS AND THOSE REPAIRED OR REPLACED UNDER THIS CONTRACT, SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT EDITION OF THE AASHTO MAINTENANCE MANUAL: THE MAINTENANCE AND MANAGEMENT OF ROADWAYS AND BRIDGES.

HIGH VOLTAGE ELECTRICAL LINES ARE IN PROXIMITY TO LOA 7. REFER TO SUBSECTION 107-05 OF THE STANDARD SPECIFICATIONS FOR CONTRACTOR SAFETY REQUIREMENTS.

RECORD PLANS FOR THESE STRUCTURES ARE NOT AVAILABLE.

RECONSTRUCTION NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIFLD CONDITIONS.

THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE COUNTY, WILL NOT BE DAMAGED, IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE COUNTY, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

WHENEYER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES

DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS AND OTHER MATERIAL TO THE AREA BELOW THE BRIDGE EXCEPT WHERE THE PLANS SPECIFICALLY PERMIT THE DROPPING OF MATERIAL PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE ENGINEER DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.

ALL MATERIAL FALLING ON THE AREA BELOW AND ADJACENT TO THE CULVERT SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO COST TO THE COUNTY.

THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE APPROPRIATE ITEMS OF THE CONTRACT.

FOUNDATION NOTES

THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.21 - SELECT STRUCTURAL FILL.

EMBANKMENT IN PLACE, ITEM 203.03 AND SELECT STRUCTURAL FILL, ITEM 203.21, SHALL BE PLACED SIMULTANEOUSLY, ON BOTH SIDES OF THE VERTICAL PAYMENT LINE.

PRECAST CONCRETE CULVERTS

ALL NOTES, DIMENSIONS, AND ELEVATIONS SHOWN ON THE PLANS SHALL BE INCORPORATED INTO THE SHOP DRAWINGS, ANY CHANGES SHALL REQUIRE PRIOR APPROVAL BY THE EIC. IF ACTUAL DIMENSIONS DIFFER THE CONTRACTOR SHALL MAINTAIN PROPOSED PAVEMENT AND

THE FASCIA OF THE EXTERIOR CULVERT SEGMENTS SHALL BE CAST PLUMB, INDEPENDENT OF THE SLOPE OF THE CULVERT.

THE LRFD SPECIFICATIONS (USING HL-93 LIVE LOAD) WITH INVENTORY RATING 2 1.2 SHALL BE USED FOR THE DESIGN OF ALL PRECAST OR CAST-IN-PLACE ELEMENTS INCLUDED IN THIS CONTRACT.

ALL COSTS ASSOCIATED WITH THE DESIGN OF THE PRECAST CONCRETE BOX CULVERT, HEADWALLS, CUT-OFF WALLS, WINGWALLS, AND FOOTINGS (IF USED) SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 603.63XXYY15 AND 603.XXYY15 PRECAST CONCRETE BOX CULVERT UNLESS OTHERWISE NOTED ON CONTRACT PLANS. THIS INCLUDES THE DESIGN AND DETAILING OF NECESSARY REINFORCING. THE COMPLETE DESIGN INCLUDING CALCULATIONS) SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

THREADED INSERTS (WHERE DETAILED) SHALL BE DESIGNED FOR USE WITH NUMBERS 5 AND 6 REINFORCING STEEL. INSERTS SHALL BE NON-CORROSIVE, AND ABLE TO RESIST MINIMUM PULL-OUT LOADS OF 11,000 LB FOR NUMBER 5 REINFORCEMENT OR 16,000 LB FOR NUMBER 6 REINFORCING WHEN LISED IN Ec. = 3,000 PSI CONCRETE.

THE HEADWALLS ARE TO BE ATTACHED TO THE BOX CULVERT BY USE OF MECHANICAL CONNECTORS FOR REINFORCING BAR SPLICES MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 709-10 (EPOXY COATED). THE FEMALE THREADED PORTION OF THE CONNECTOR IS CAST INTO THE BOX CULVERT.

THE LENGTH OF EACH CULVERT SEGMENT SHALL BE DETERMINED BY THE CONTRACTOR.

ALL THE EDGES OF THE CONCRETE INCLUDING THE EDGES OF EXPANSION, CONTRACTION AND CONSTRUCTION JOINTS SHALL BE CHAMFERED 1 INCH UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.

THE COST OF THE PRECAST HEADWALLS AND CUTOFF WALLS, DOWEL BARS, REINFORCING, GROUT ETC. SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 603.64XXYY15, DEPENDENT ON LOCATION. IF THE CONTRACTOR ELECTS TO SUBSTITUTE CAST-IN-PLACE HEADWALLS IN LIEU OF PRECAST HEADWALLS, NO ADDITIONAL PAYMENT SHALL BE MADE.

TURF ESTABLISHMENT NOTES:

FOR 610.16010020 TURF ESTABLISHMENT -

THE TOP SOIL SHALL MEET THE REQUIREMENTS OF 713-01 TS 1 TOPSOIL - ROADSIDE.

B. THE SEED MIX SHALL MEET THE REQUIREMENTS AS NOTED IN THE TABEL BELOW

610.16010424 - TURF ESTABLISHMENT - SEED MIX AS SPECIFIED ROADSIDE SEED MIX

COMMON NAME	SCIENTIFIC NAME	RATE (35 LBS/ACRE) %
VIRGINIA WILD RYE	ELYMUS VIRGINICUS	5.00
PANICLEDLEAF TICK TREFOIL	DESMODIUM PANICULATUM	0.56
LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM	11.67
BIG BLUESTEM	ANDROPOGON GERARDII	7.78
CREEPING RED FESCUE	FESTUCA RUBRA	23.89
INDIAN GRASS	SORGHASTRUM NUTANS	7.78
SWITCH GRASS	PANICUM VIRGATUM	5.56
STAGHORN SUMAC	RHUS TYPHINA	0.56
EVENING PRIMROSE	OENOTHERA BIENNIS	15.52
BUTTERFLY MILKWEED	ASCLEPIAS TUBEROSA	0.56
BLACK EYED SUSAN	RUDBECKIA HIRTA	13.89
PARTRIDGE PEA	CHAMAECRISTA FASCICULATA	0.56
HOLLOW-STEM JOE PYE WEED	EUPATORIUM FISTULOSUM	6.67
	(EUTROCHIUM FISTULOSUM)	

STREAM PROTECTION NOTE

DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO ANY STREAM FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STREAM ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITES. IF THE CONTRACTOR USES WATER FROM A STREAM, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM REQUIRED TO PROTECT AND MAINTAIN WATER RIGHTS AND TO SUSTAIN FISH LIFE DOWNSTREAM.

CONTROL OF INVASIVE SPECIES NOTES:

ALL CONSTRUCTION EQUIPMENT WILL BE PRESSURE WASHED TO REMOVE SOIL CLUMPS AND DEBRIS PRIOR TO SHIPPING TO THE PROJECT SITE.

ALL SEED SPECIES SHALL BE PER CONTRACT DOCUMENTS.

CONTRACTOR SHALL MAINTAIN ALL SEEDED AREAS AGAINST INVASION AND GROWTH OF INVASIVE, NON-NATIVE SPECIES. PURPLE LOOSE STRIFE (LYTHRIUM SALICARIA), COMMON REED (PHRAGMITIES AUSTRALIS), AND REED CANARY-GRASS (PHALARIS ARUNDINACEA) SHALL BE DUG OR CAREFULLY PULLED IN ORDER TO GET ALL ROOTS WHEN OBSERVED INVADING THE SITE. WEEDING SHALL BE PAID FOR UNDER ITEM.

NO HAY BALES SHALL BE PERMITTED ON PROJECT SITE. STRAW BALES, WHICH MEET THE REQUIREMENTS OF NYSDOT MATERIAL SPECIFICATION 713-19- STRAW, SHALL BE PERMITTED ON PROJECT SITE.

MULCH SHALL MEET THE REQUIREMENTS OF NYSDOT MATERIAL SPECIFICATION 713-11- WOOD FIBER MULCH.

TREE REMOVALS:

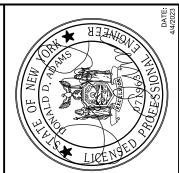
THE CONTRACTOR SHALL USE CARE SO AS NOT TO REMOVE OR DAMAGE EXISTING TREES THAT ARE NOTED "TO REMAIN" OR ANY ADDITIONAL TREES BEYOND THE LIMITS OF WORK. SHOULD REMOVAL OR DAMAGE OCCUR TO ANY TREES THAT ARE BEYOND THE LIMITS OF WORK OR ANY TREES NOTED "TO REMAIN", THEY SHALL BE REPLACED IN-KIND BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE COUNTY.

STREAM DIVERSION NOTES:

ORDINARY HIGH-WATER IS ESTIMATED TO BE LOA2 = 1312.00; LOA3 = 1137.00; LOA7 = 845.50 . ORDINARY HIGH-WATER IS DEFINED AS THE WATER SURFACE ELEVATION FOR THE MEAN ANNUAL FLOOD, WHICH IS THE FLOOD THAT HAS A RECURRENCE INTERVAL OF 2.33 YEARS.

ORDINARY WATER IS ESTIMATED TO BE LOA2 = 1311.75; LOA3 = 1136.50; LOA7 = 845.00. ORDINARY WATER IS DEFINED AS THE HIGHEST SURFACE WATER ELEVATION LIKELY TO BE ENCOUNTERED DURING ONE CONSTRUCTION SEASON (EXCLUDING MAJOR FLOODS). IT IS ALWAYS LESS THAN THE ORDINARY HIGH-WATER ELEVATION AND IT IS USUALLY AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.

LOW WATER IS ESTIMATED TO BE LOA2 = 1311.50; LOA3 = 1136.00; LOA7 = 844.50 . LOW WATER IS DEFINED AS THE NORMAL LOW WATER ELEVATION PREVALENT DURING ONE CONSTRUCTION SEASON FOR MORE THAN 25% OF THE TIME. IT IS AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.



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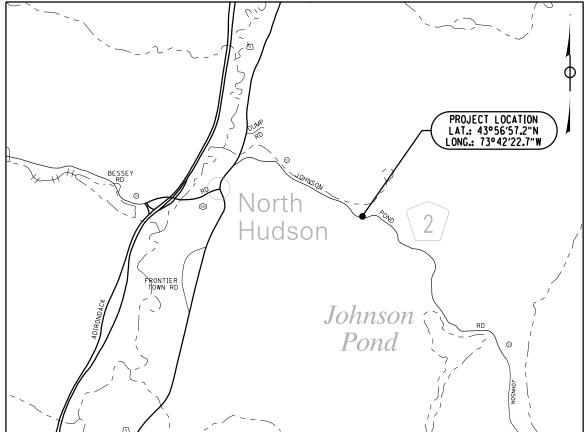
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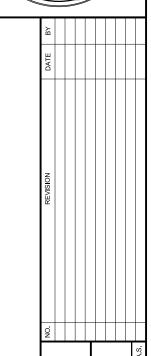
PROJECT LOCATION LAT.: 44°04'49.9" N LONG.: 73°36'35.3" W Town of Moriah

TOWN OF MORIAH, ESSEX COUNTY



 $\begin{array}{c} \underline{\text{SITE LOA-3}} \\ \text{TOWN OF NORTH HUDSON, ESSEX COUNTY} \end{array}$





Creighton Manning

PROJECT LOCATION MAPS

PLM-1

SHEET NUMBER 4 of 30

PROJECT LOCATION LAT.: 43°50'13.3"N LONG.: 73°46'27.7"W

SITE LOA-7
TOWN OF SCHROON, ESSEX COUNTY

WORK ZONE TRAFFIC CONTROL NOTES:

1. GENERAL NOTES

WORK ZONE TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 - WORK ZONE TRAFFIC CONTROL - OF THE NYSDOT STANDARD SPECIFICATIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, NYSDOT STANDARD SHEETS 619 SERIES, AND ANY PROVISIONS CONTAINED IN THESE

HE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS, THE TRAFFIC CONTROL PLANS, AND IN THE MUTCO REFLECT THE MINIMUM REQUIREMENTS. ADDITIONAL SIGNS AND/OR TRAFFIC CONTROL DEVICES MAY BE REQUIRED AS ORDERED BY THE ENGINEER (AOBE), COST TO BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE ITEMS. IF AT ANY TIME THE ENGINEER DETERMINES THAT TRAFFIC IS NOT BEING PROPERLY MAINTAINED WITHIN A WORK ZONE, THE CONTRACTOR SHALL IMMEDIATELY

THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE NYSDOT/COUNTY FIVE (5) WORKING DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE BASIC CONCEPT OF THE TRAFFIC CONTROL PLAN, SUCH CONCEPTUAL CHANGES MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE COUNTY THIRTY (30) WORKING DAYS PRIOR TO IMPLEMENTATION

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 NYSDOT, REGIONAL MANAGEMENT, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, THE TOWN, AND THE LOCAL POLICE.

PRIOR TO THE START OF ANY WORK OPERATIONS, ALL RELATED WORK FOR PROPOSED WORK ZONE TRAFFIC CONTROL, AOBE, SHALL BE COMPLETE. THIS INCLUDES BUT IS NOT LIMITED TO, ALL SIGNS, SIGNALS, PAVEMENT MARKINGS, BARRIERS, DELINEATION (CONES, DRUMS, ETC.) FLAGGERS, PAVEMENT MODIFICATIONS, AND ANY OTHER RELATED WORK.

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SAFE AND ADEQUATE INGRESS AND EGRESS TO AND FROM INTERSECTING HIGHWAYS, HOMES AND COMMERCIAL ESTABLISHMENTS AT ALL TIMES TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH ITEM 619.01 SECTION 619-3.02(C) OF NYSDOT STANDARD SPECIFICATIONS.

THE TRANSPORTATION MANAGEMENT CENTER (TMC) SHALL BE NOTIFIED BEFORE ANY WORK IS STARTED ON A STATE HIGHWAY. THE NOTIFICATION AND COORDINATION WITH THE TMC SHALL BE MADE THRU THE NYSDOT REPRESENTATIVE ASSIGNED TO THE PROJECT (DOT INSPECTOR OR RESIDENCY).

THE CONTRACTOR SHALL SECURE A JOINT NYSDOT HIGHWAY WORK PERMIT WITH THE COUNTY AS CO-APPLICANT. THE CONTRACTOR SHALL SECURE THE BONDS AND PAY ALL NYSDOT PERMIT FEES.

2. STANDARD SHEETS 619-10. 11. AND 12 CRITERIA

THE CONTRACTOR SHALL REFER TO THE FOLLOWING CRITERIA WHILE UTILIZING THE NYSDOT STANDARD SHEETS:

PRECONSTRUCTION POSTED SPEED LIMIT: 55 MPH

TYPE OF ROADWAY: CONVENTIONAL ROAD

SETTING: RURAL

3. TIME / DATE RESTRICTIONS

COORDINATION WITH ESSEX COUNTY WILL BE REQUIRED.

THE CONTRACTOR SHALL NOT BEGIN WARMING UP EQUIPMENT BEFORE THE SCHEDULED START TIMES, NOR KEEP THE EQUIPMENT RUNNING AFTER THE SCHEDULED QUIT TIMES. MAINTENANCE OF EQUIPMENT ON SITE WHICH REQUIRES THE EQUIPMENT TO BE RUNNING SHALL BE APPROVED BY THE ENGINEER IF THE MAINTENANCE IS PERFORMED OUTSIDE THE WORK HOUR RESTRICTIONS.

THERE SHALL BE NO WORK OPERATIONS ALLOWED BEFORE SUNRISE OR AFTER SUNSET WITHOUT APPROVAL OF THE COUNTY/ENGINEER AND AN APPROVED LIGHTING PLAN. THE LIGHTING PLAN SHALL BE APPROVED PRIOR TO THE START OF WORK BY THE ENGINEER.

4. WORK ZONE REQUIREMENTS

THE MINIMUM WIDTH OF TRAVEL LANES WITHIN THE WORK ZONE IS 10 FEET.

WORK ZONES ON OPPOSITE SIDES OF THE ROAD SHALL NOT OVERLAP. A WORK ZONE IS DEFINED AS THAT AREA IN WHICH TRAFFIC IS RESTRICTED BECAUSE OF CONSTRUCTION ACTIVITIES, OR THAT AREA WHICH INVOLVES A DROP-OFF WITHIN 10 FEET OF THE EDGE OF PAVEMENT.

5. CONSTRUCTION VEHICLES, EQUIPMENT, AND MATERIALS

THE CLEAR ROADSIDE AREA IS DEFINED AS THE AREA WITHIN 10 FEET OF THE EDGE OF THE TRAVEL

CONTRACTOR VEHICLES NOT IN USE AND PRIVATE VEHICLES OWNED BY CONTRACTOR'S EMPLOYEES SHALL NOT BE PARKED IN THE CLEAR ROADSIDE AREA, OR ANY OTHER LOCATION CONSIDERED BY THE ENGINEER TO BE A HAZARD. THIS REQUIREMENT IS NOT LIMITED TO THE CONTRACT LIMITS.

NO MATERIAL IS TO BE STORED WITHIN THE CLEAR ROADSIDE AREA WITHOUT THE APPROVAL OF THE

VEHICLES BELONGING TO THE CONTRACTOR OR THE CONTRACTOR'S EMPLOYEES SHALL NOT BE PARKED IN A MANNER WHICH OBSTRUCTS SIGNS, BARRIERS, BARRICADES, OR OTHER TRAFFIC CONTROL DEVICES.

VEHICLES BELONGING TO THE CONTRACTOR OR THE CONTRACTOR'S EMPLOYEES SHALL NOT BE PARKED IN A MANNER WHICH INTERFERES WITH ACCESS TO ABUTTING PROPERTIES.

THE CONTRACTOR SHALL PLAN AND INCORPORATE ACCESS POINTS INTO THE WORK ZONE SUCH THAT, TO THE EXTENT PRACTICAL, THE CONTRACTOR'S VEHICLES ENTERING AND LEAVING THE WORK ZONE SHALL NOT IMPEDE THE MOVEMENT OF THROUGH TRAFFIC IN THE ADJACENT OPEN LANES.

6. CHANNELIZING DEVICES

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

THE CONTRACTOR SHALL NOT MIX CHANNELIZATION DEVICES IN A LINEAR CLOSURE OR TAPER I.E. CONES, VERTICAL PANELS AND DRUMS SHALL NOT BE USED IN THE SAME TAPER OR CLOSURE. HOWEVER, DIFFERENT CHANNELIZATION DEVICES MAY BE USED IN DIFFERENT AREAS OF A PROJECT.

REFLECTORIZED PLASTIC DRUM DELINEATORS SHALL BE USED AT HAZARDOUS LOCATIONS DETERMINED BY THE ENGINEER, DELINEATORS SHALL REMAIN IN PLACE UNTIL SATISFACTORY PROTECTION IS PROVIDED, DELINEATORS SHALL BE SPACED AT A DISTANCE NOT TO EXCEED 25 FEET, OR AS DIRECTED

7. FLAGGING AND TRAFFIC CONTROL

THE USE OF TEMPORARY SIGNALS AS A SUBSTITUTE FOR FLAGGERS WILL NOT BE ALLOWED ON THIS

FLAGGER SIGNS SHALL NOT BE USED FOR BRIEF PERIODS OF INCIDENTAL FLAGGING, AOBE. FLAGGER SIGNS SHALL NOT BE VISIBLE WHEN FLAGGERS ARE NOT BEING USED.

WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AS NEEDED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.

8. SIGNS AND DEVICES

DIAMOND-SHAPED ADVANCE WARNING SIGNS SHALL BE USED FOR ALL ADVANCE WARNING SIGNS SHOWN IN PART 6 OF THE MUTCD, COLOR REQUIREMENTS SHALL BE BLACK TEXT ON ORANGE BACKGROUND.

THE CORRECT SPACING OF SIGNS, EITHER PERMANENT OR TEMPORARY MUST BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE MUTCD UNLESS SHOWN OTHERWISE ON THE PLANS. ALL SIGNS INCLUDING GUIDE SIGNS SHALL INDICATE ACTUAL CONDITIONS AT ALL TIMES AND SHALL BE COVERED, MOVED, REMOVED, OR CHANGED IMMEDIATELY AS ORDERED BY THE ENGINEER.

THE LOCATION 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.

ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGNS 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.

SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.

ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

THE LOCATIONS OF AND MESSAGES ON EACH VARIABLE MESSAGE SIGN SHALL BE DETERMINED BY THE ENGINEER. THE CONTRACTOR SHALL DOCUMENT THE LOCATION AND MESSAGE FOR EACH SIGN DAILY AND SUBMIT WEEKLY LOGS TO THE ENGINEER.

9. NOTIFICATION AND EMERGENCY ACCESS

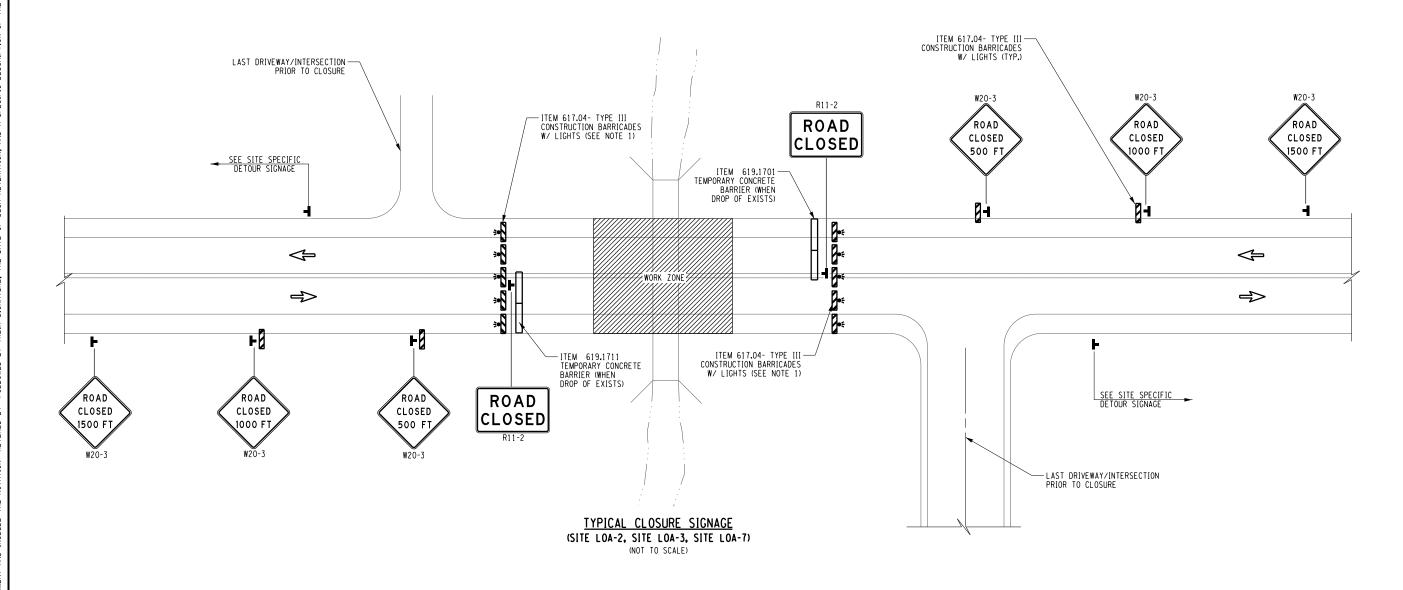
A. THE CONTRACTOR IS REQUIRED TO CONTACT THE APPROPRIATE SCHOOL AND EMERGENCY SERVICES ORGANIZATIONS WITH RESPECT TO THE AFFROPRIATE SCHOOL AND EMERCENT'S SERVICES ORGANIZATIONS WITH RESPECT TO THE EFFECT OF ROOD WORK, TRAVEL LANE REDUCTIONS, AND DETOURS ON OPERATIONS, THIS CONTACT SHALL BE MADE AS CONDITIONS CHANGE AND AT LEAST TWO WEEKS PRIOR TO IMPLEMENTING EACH TRAFFIC PHASE AND/OR DETOUR TO ALLOW ADEQUATE TIME FOR THE ORGANIZATIONS TO COORDINATE AND MAKE NECESSARY ADJUSTMENTS TO RESPONSE SCHEDULES AND ROUTES.



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44	=		Ē	l	<u>}</u>	_ - - - -	L 3 IY 129:	Ü.H.
Croin			= 5 >		ESSEX COUN	AIMENIOF PUB	ELIZABETHTOWN: NY 12932	DRAWN BY: K
	X			oo du		DEPA		DESIGNED: C.O./J.O. DRAWN BY: K.H.D. CHECKED: L.A.S.
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	ENTS	SN	≥	:		<u> </u>	S	SCALE
X COUNTY	REPLACEM	STOCATIC	FMORIAH		AT TIM		OL NOTES	I No.: 120-098 SCALE: AS NO

TCP-1

NAME = N.NP-ojects\2020\120-098 Essex 71ME = 4/4/2023 10:25:48 AM USER = kdetrick PLOT = NYSDOT.CME.PDF.pitcfg FILE



- 1. ITEM 619.04 TYPE III BARRICADES W/ LIGHTS SHALL BE PLACED 25.0 FT PAST THE LAST DRIVEWAY OR INTERSECTION PRIOR TO THE CLOSURE SITE, WHICHEVER IS APPROPRIATE.
- 2. COSTS OF ITEM 619.04 TYPE III BARRICADES, ITEM 619.1711 TEMPORARY CONCRETE BARRIER, AND ALL WZTC SIGNAGE POST SHALL BE INCLUDED IN ITEM 619.01 BASIC WORK ZONE TRAFFIC CONTROL.
- 3. CONTRACTOR TO COORDINATE WITH EIC TWO WEEKS PRIOR TO PLACEMENT TO CONFIRM CLOSURE LOCATION.



DETOUR SIGN LOCATION

TYPE III BARRICADE TYPE III BARRICADE

DIRECTION OF TRAFFIC

WORK ZONE

TCP-2

WORK ZONE TRAFFIC CONTROL

Creighton Manning

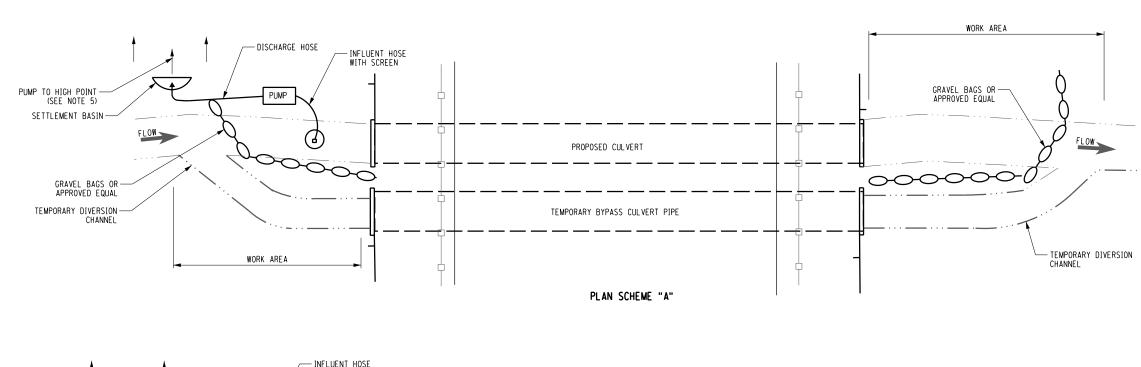
NAME 'TIME USER PLOT

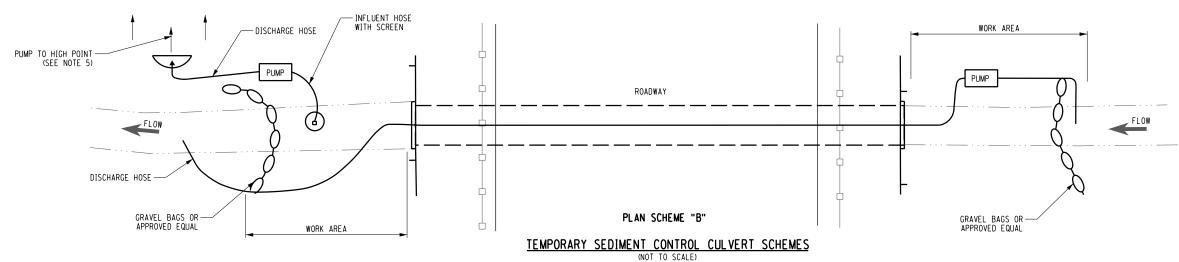
PRECAST CULVERT APRONS — CULVERT SPAN IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE 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. NATIVE STREAMBED MATERIAL, FOR MINIMUM THICKNESS - SEE CULVERT PROFILE -EACH SITE VARIES (2'-0" MIN.) -PRECAST WINGWALL LIGHT STONE PRECAST APRON BEYOND 4'-0" HEAVY/MED. STONE 9" BEDDING STONE SECTION A-A SECTION B-B TYPICAL CULVERT END SECTION TYPICAL LIGHT STONE DETAIL (NOT TO SCALE) (NOT TO SCALE) TOP OF ROADWAY -HIGHWAY ITEMS SEE TYPICAL SECTIONS - EACH SITE) -SUBGRADE OF ROADWAY Creighton Manning 30.00 PROPOSED BOX CULVERT 0" MIN. * 2'-0" MAX. - EXISTING CULVERT TO BE REMOVED MATERIALS ON BOTH SIDES-OF THIS VERTICAL LINE SHALL BE PLACED TOGETHER AT THE SAME TIME (TYP.) -NATIVE STREAMBED MATERIAL EARTHWORK LAYOUT DETAILS LOW FLOW CHANNEL 3'-0" (TYP.) 1'-0" MIN. NATIVE STREAMBED MATERIAL FOR MINIMUM THICKNESS - SEE CULVERT PROFILE EACH SIDE SECTION E-E **ELD-02**

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SHEET NUMBER 8 o

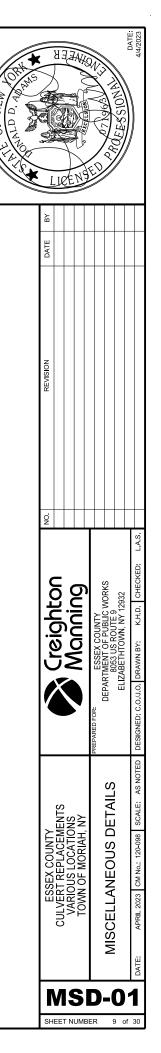


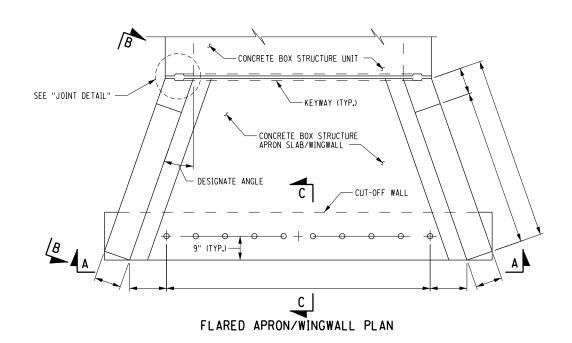


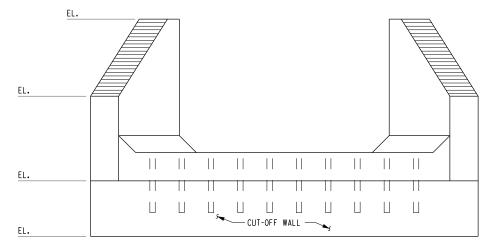


TEMPORARY SEDIMENT CONTROL NOTES:

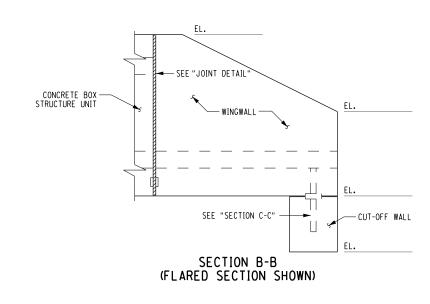
- 1. PRIOR TO BEGINNING CONSTRUCTION/INSTALLATION OF ANY STREAM DIVERSION, THE CONTRACTOR SHALL SUBMIT THE METHODS TO BE EMPLOYED TO THE ENGINEER FOR REVIEW
- 2. THE CONTRACTOR MAY PREPARE AN ALTERNATIVE WATER DIVERSION PLAN. LOCATIONS AND DESIGNS NOT SHOWN ON THE PLANS SHALL BE APPROVED BY THE ENGINEER.
- 3. NO WORK SHALL BE CONDUCTED IN THE STREAM BEYOND THE LIMITS OUTLINED ON THE PLANS.
- 4. ALL STREAM DIVERSION COMPONENTS SHALL BE INSTALLED PRIOR TO WORK COMMENCING ON THE CULVERT AND BE LEFT IN PLACE UNTIL ALL WORK HAS BEEN COMPLETED.
- 5. ALL DEWATERING OPERATIONS INVOLVING TURBID WATER SHALL BE ACCOMPLISHED BY PUMPING TO A SUITABLE VEGETATED AREA (NOT INCLUDING WETLANDS), OR TO A SETTLEMENT BASIN OR MANUFACTURED SEDIMENT CONTROL SYSTEM. WHEN WATER BEING DISCHARGED IS AS FREE AND CLEAR OF SEDIMENT AS THE ADJACENT STREAM OR WATER BODY, THE WATER CAN BE PUMPED DIRECTLY INTO THE STREAM OR WATER BODY. THE ENGINEER SHALL BE THE SOLE JUDGE AS TO THE LOCATION OF THE DISCHARGE POINT AND WHETHER A SEDIMENT TRAP IS NECESSARY. ALL PUMPING OPERATIONS SHALL NOT BEGIN OR SHALL BE HALTED UNTIL SETTLEMENT BASIN IS OPERATIONAL.
- 6. ADEQUATE MEASURES MUST BE EMPLOYED TO ENSURE AGAINST EROSION AT THE PUMP DISCHARGE OUTLET. THE COST INCLUDED SHALL BE IN THE UNIT BID PRICE FOR THE STREAM DIVERSION ITEM.
- 7. AT THE END OF THE WORK DAY OR BEFORE HEAVY ANTICIPATED FLOWS, THE CONTRACTOR SHALL ESTABLISH AN UNOBSTRUCTED CHANNEL AREA SUFFICIENT TO ACCOMMODATE THE FLOW.
- 8. THE COST OF PUMPING, SUMP PIT, HOSES, CONSTRUCTION OF TEMPORARY DIVERSION CHANNELS AND TEMPORARY BYPASS PIPES (IF REQUIRED) SHALL BE INCLUDED IN THE UNIT BID PRICE FOR STREAM DIVSERION, ITEM 553030001.
- 9. THE PLAN SCHEMES SHOWN ARE FOR GUIDANCE ONLY. THE DEWATERING METHOD USED SHALL BE BASED ON FIELD CONDITIONS OF THE SPECIFIC PROJECT AT THE TIME OF CONSTRUCTION. THE METHOD SHOULD BE ADJUSTED ACCORDINGLY AND APPROVED BY THE ENGINEER PRIOR TO START OF ANY WORK.
- 10.TEMPORARY DIVERSION CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY BEFORE DIVERTING WATER FROM THE EXISTING CHANNEL. WHERE THIS IS NOT FEASIBLE, COFFERDAMS CAN BE USED UNTIL WORK IS COMPLETE. ALL TEMPORARY DIVERSION CHANNELS SHALL BE CONSTRUCTED OF NON-ERODIBLE MATERIAL AND THE BOTTOM WIDTH SHALL BE EQUAL TO OR GREATER THAN THE NATURAL CHANNEL BOTTOM WIDTH. ONCE THE PROPOSED WORK HAS BEEN SATISFACTORILY COMPLETED, AS APPROVED BY THE ENGINEER, THE TEMPORARY DIVERSION CHANNEL SHALL BE REMOVED IN ITS ENTIRETY AND THE AREA RESTORED TO PROPOSED GRADES AND STABILIZED.

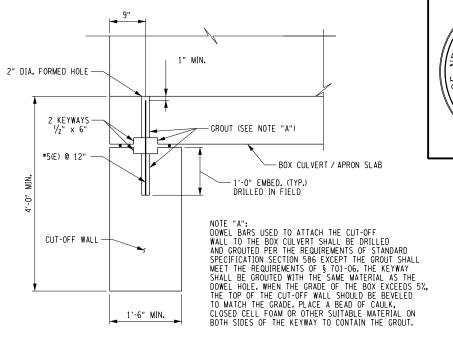




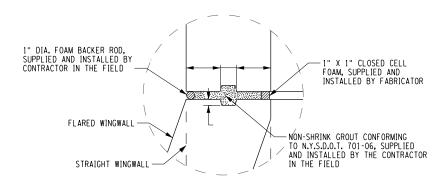


SECTION A-A FLARED CULVERT END SECTION



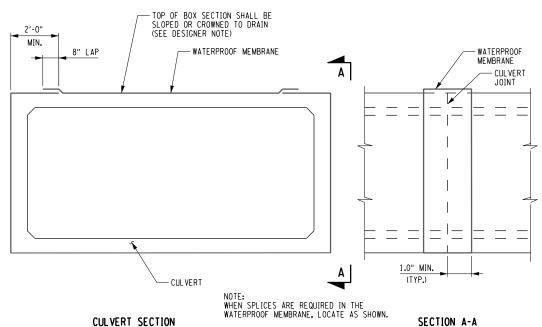


SECTION C-C



JOINT DETAIL

THIS DETAIL SHOWN IS AN EXAMPLE. OTHER DETAILS MAY BE PROPOSED FOR EVALUATION BY THE ENGINEER.



CULVERT SECTION

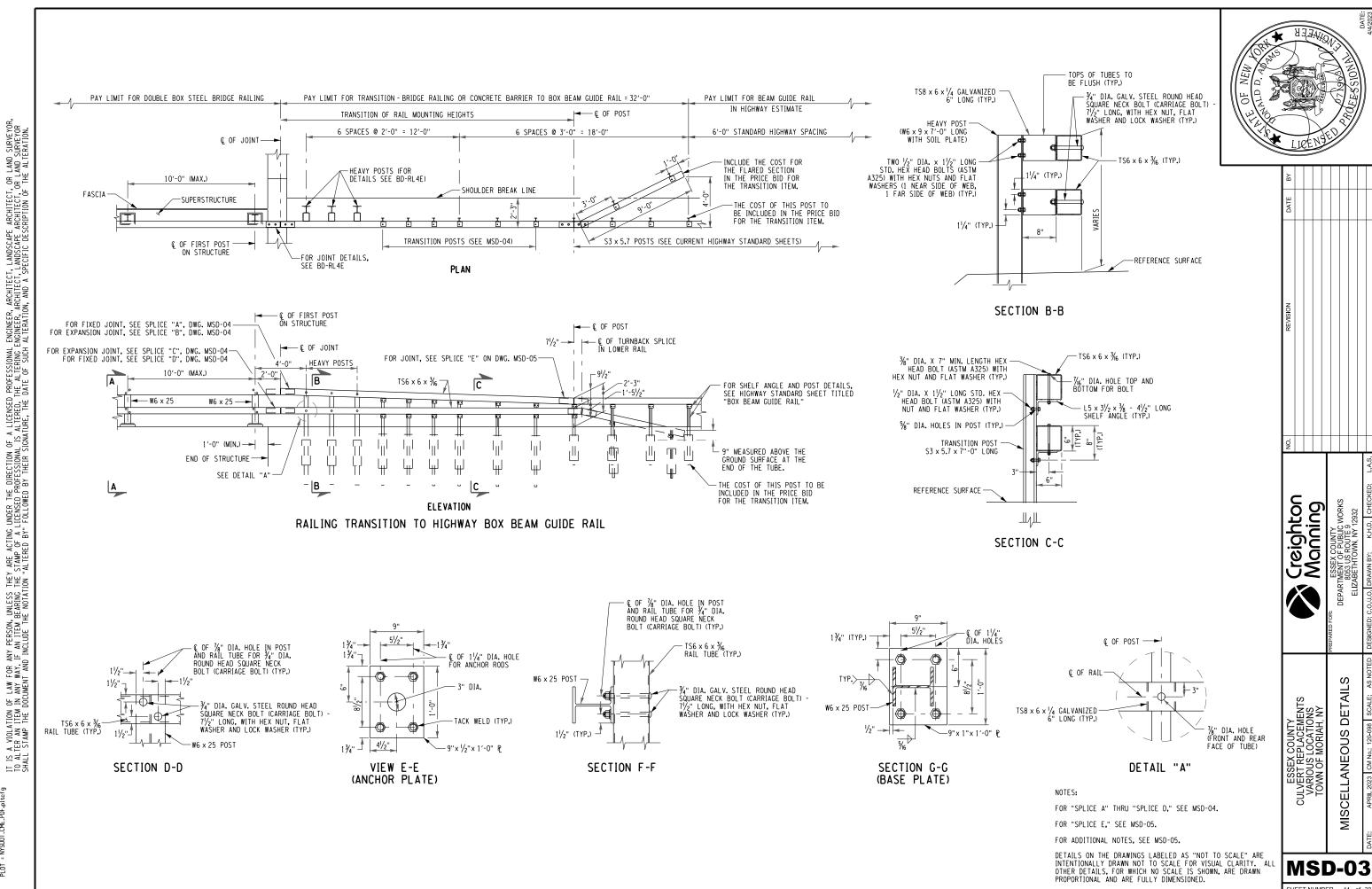
WATERPROOF MEMBRANE SPLICE DETAIL (NOT TO SCALE)

MSD-02

MISCELLANEOUS DETAILS

ESSEX COUNTY CULVERT REPLACEMENTS VARIOUS LOCATIONS TOWN OF MORIAH, NY

Creighton Manning

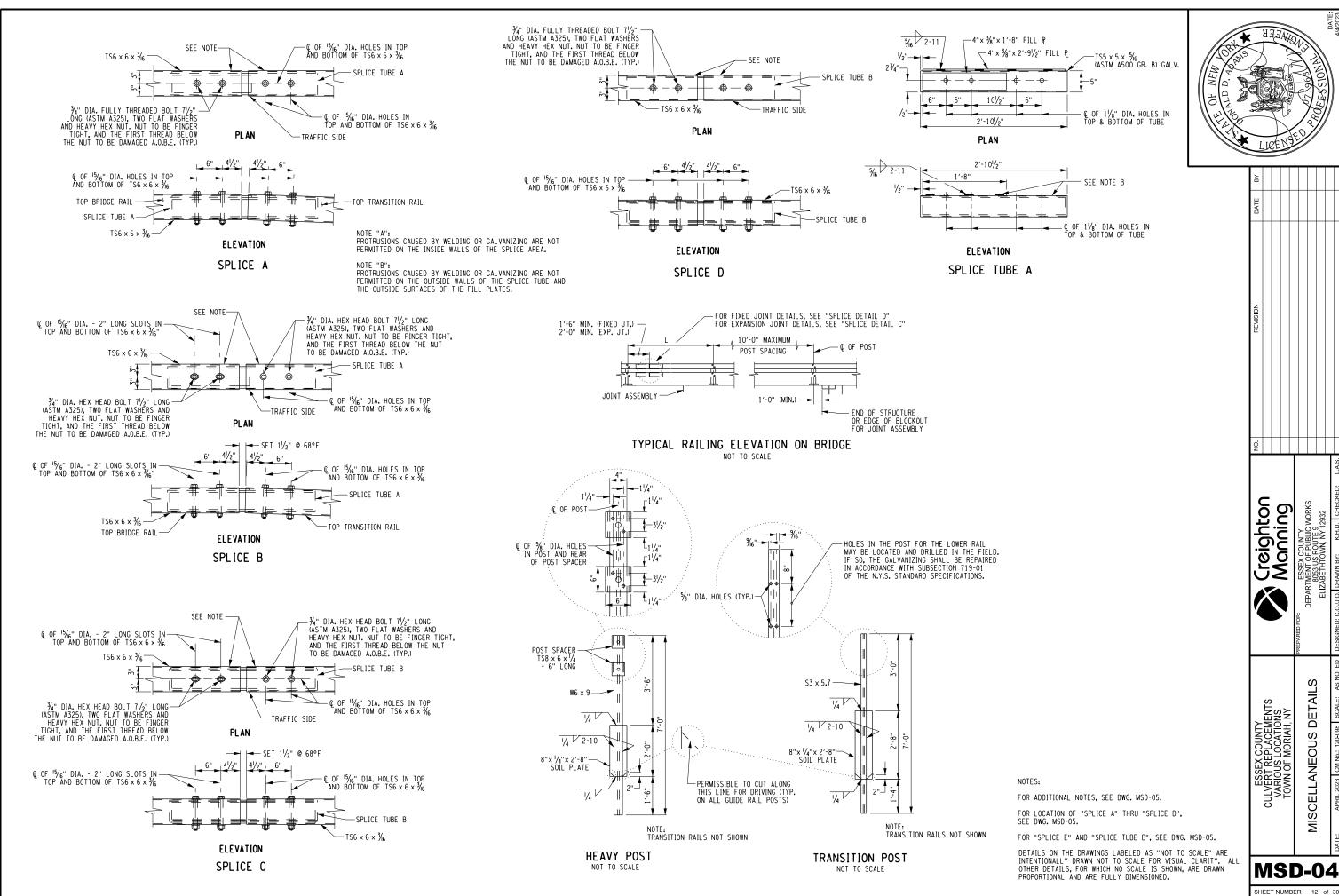


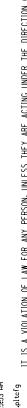
FILE NAME = N.Pr.ojects/2020/120-098 Essex DPW - Halloween\Working\LDA - COMMUN FILES\CADD\DGN\120-0 DATE/TIME = 4/4/2023 1025552 AM USTR = Actorick A referrok PLOT = NYSOU-LOME_DDF.pltcfg



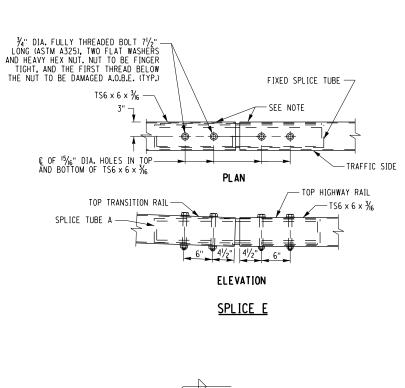
NAME TIME USER PLOT

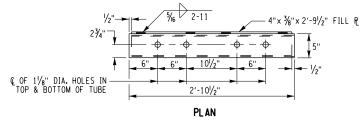
FILE

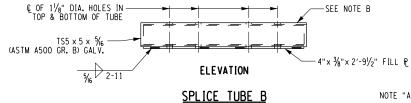






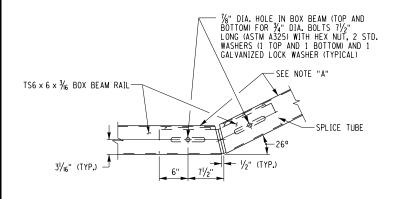




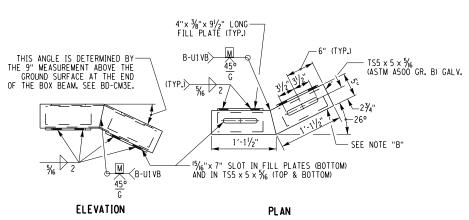


PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE INSIDE WALLS OF THE SPLICE AREA.

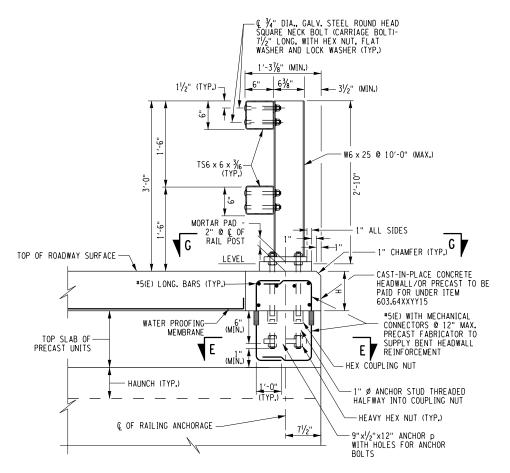
PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE OUTSIDE WALLS OF THE SPLICE TUBE AND THE OUTSIDE SURFACES OF THE FILL PLATES.



TURN BACK SPLICE



TURN BACK SPLICE TUBE



DOUBLE BOX BEAM RAIL ANCHORAGE DETAILS

(NOT TO SCALE)

- 1. HEADWALL REINFORCEMENT SHALL BE PAID FOR UNDER ITEM 603.64XXYY12 AND 603.63XXYY12.
- 2. ANCHORAGE SHALL BE DESIGNED FOR BARRIER TEST LEVEL TL-2.

B-U1 VB

STEEL BACK-UP

BAR TO REMAIN

WELD FOR SPLICE TUBE

NOT TO SCALE

NOTES:

RAIL TUBES SHALL BE IN CONFORMANCE WITH MATERIAL SPECIFICATION 710-23.

ALL RAILING IS TO BE FABRICATED AND ERECTED SO THAT THE RAILS ARE PARALLEL TO EACH OTHER AND THE RAILING POSTS ARE TRULY VERTICAL.

THE BASE PLATES SHALL BE PERPENDICULAR TO THE POST UNLESS OTHERWISE NOTED.

TUBULAR STEEL RAILS, RAIL TUBE SPLICE ASSEMBLIES, BOLTS, NUTS, LOCK WASHERS, AND PLAIN FLAT WASHERS SHALL BE

ANCHOR RODS, NUTS, WASHERS, AND ANCHOR PLATES SHALL BE PAID FOR UNDER THE RAILING ITEM.

AFTER THE ANCHOR ROD NUTS HAVE BEEN PLACED AND TIGHTENED TO THE
SATISFACTION OF THE ENGINEER, THE RODS SHALL BE CUT OFF BY FLAME CUTTING
1" ABOVE THE NUT, AND THE FIRST THREE
THREADS ABOVE THE NUT SHALL
BE DAMAGED AS ORDERED BY THE ENGINEER.

BRIDGE RAILS SHALL SPAN A MINIMUM OF THREE

UNLESS COVERED BY OTHER SPECIFICATIONS, ALL DIMENSIONS RELATED TO THE FABRICATION OF THE STEEL RAILING SHALL HAVE A TOLERANCE OF 1/16 INCH..

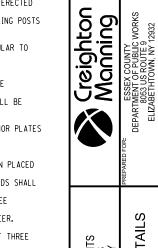
PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES OF ALL PLATES TO A MINIMUM RADIUS OF γ_{16} INCH.

EXCEPT AS NOTED, ALL BOLTS TO BE TORQUED SNUG TIGHT (APPROXIMATELY 100 ft.-lbs.).

ALL STEEL SHALL BE GALVANIZED AFTER WELDING IN ACCORDANCE WITH THE N.Y.S. STANDARD SPECIFICATION SUBSECTION 719-01.

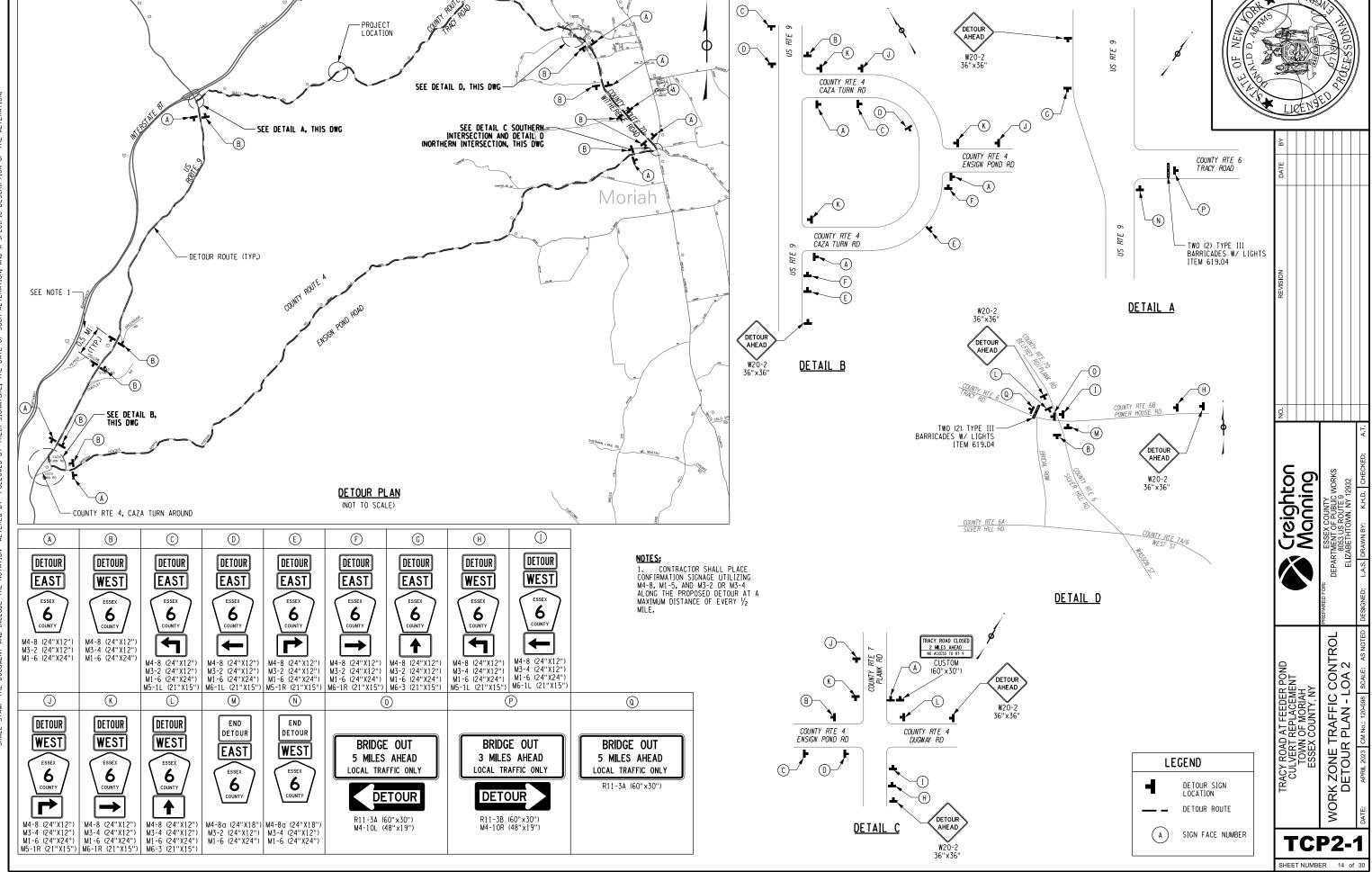


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MSD-05

ESSEX (CULVERT REF VARIOUS L



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THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR ION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. FOR ANY PERSON, UNLESS WAY, IF AN ITEM BEARING IT AND INCLUDE THE NOTAT LAW ANY UMEN **₽**₹<u>0</u> A VIOLATION (TER AN ITEM STAMP THE D 오보그 드유통 = N:NProjects/2020/120-098 E = 4/4/2023 10:25:57 AM = kdetrick = NYSDOT.CME.PDF.pltcfg

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FEDER DAW ONLET WINGWALL DATA TABLE LOCATION | ELEVATION A | ELEVATION B | ELEVATION C | DIMENSION "L" WINGWALL 1 WINGWALL 2 1316.85 1315.70 WINGWALL 3 1316.40 1313.70 -WINGWALL 2 WINGWALL 4 1317.50 1313.70 • VARIES SEE TABLE OF COORDINATES THIS SHEET — P5 S. T. A. LIMITS CAN TELL ESSENCIAL TRACY ROAD WINGWALL HYDRAULIC DATA DRAINAGE AREA = 1.96 mi* ∮ 50% RECURRENCY INTERVAL PEAK DISCHARGE HIGH WATER ELEVATION EXIST PROP. 1'-0" AVG. VELOCITY THRU STRUCTURE <□ TO NYS 9 40°00'00"SKEW © TRACY RD-STA. LINE, & H.C.L., T.G.L. CULVERT DESIGN DATA TABLE CLEAR SPAN, FT AZ. S13°24'06"E CLEAR RISE, FT MIN. FILL HEIGHT, FT B BEGINING OPENING STA. TR 3+33.85 TO WITHERBEE RD MAX. FILL HEIGHT, FT (@ SKEW) SKEW ANGLE TO @ OF ROADWAY, DEG. @ ROADWAY STA. TR 3+38.40 -© STREAM STA. 0+44.60 LIVE LOAD PROPOSED PRECAST -CONCRETE BOX CULVERT . BASED ON ASSUMED TOP SLAP THICKNESS OF 12". FABRICATOR SHALL ADJUST BASED ON ACTUAL TOP SLAB THICKNESS. • 1.2 MIN. LRFR RATING INVENTORY 50% WINGWALL CAST-IN-PLACE CONCRETE HEADWALL (TYP.) 25'-53/4" WINGWALL CULVERT LAYOUT PLAN SCALE: 1"=10'-0" EL. 1318.65 (AT WINGWALL 1 EL. 1318.00 (AT WINGWALL 3 EL. 1318.25 (AT WINGWALL 2) EL. 1317.55 (AT WINGWALL 4) PRE-CAST HEADWALL-6'-0" 1'-0" ASSUMED (TYP.) 9'-0"

CULVERT SECTION A-A

SCALE: 1"=5'-0"

•• ELEVATIONS ARE AT OUTSIDE FACE OF HEADWALL, BOTH SIDES OF CULVERT (TYP.)

DESCRIPTION	NORTHING	EASTING	ELEVATION
P1: LT BEGIN	726054.4289	1913003.6827	1308.30
P2: LT END	726059.2132	1912995.0297	1308.15
P3: RT BEGIN 726031.15		1912972.3381	1306.85
P4: RT END	726035.9412	1912963.6921	1306.70
P5: LT BEGIN	726057.5238	1913014.3286	1308.65
P6: LT END	726067.9200	1912992.6197	1308.25
P7: RT BEGIN	726022.4477	1912974.7526	1306.75

1912953.0448

•• ELEVATIONS ARE AT BOTTOM OF SLAB (TYP.)

726032.8452

3'-0" F.F. 2'-0" R.F.

JOINT DETAIL,

ELEVATION A (SEE WINGWALL DATA TABLE)

SEE DWG. MSD-02

_1'-6"

P8: RT END

VARIES

1'-4"

WINGWALL DETAIL

(NOT TO SCALE)

9'-0"

9'-0"

11'-0"

DESIGN BASE FLOOD

1312.17 1312.33

1311.86 1311.98

50

173

4.0

6′-0"

2′

40°

HL-93

100

198

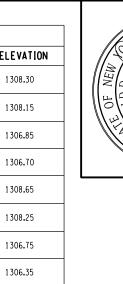
4.6

PRECAST HEADWAL -

VARIES (SEE ST2-3)

ITEM 613.04000001 - STOCKPILING AND-PLACING EXISTING STREAM BED MATERIALS AND/OR ITEM 615.01010108 MATERIAL FOR

STREAM BED ESTABLISHMENT





ELEVATION B
(SEE WINGWALL DATA TABLE)

ELEVATION C SEE WINGWALL DATA TABLE)

ST2-2

LAYOUT PLAN - LAO

SHEET NUMBER 16 of 30

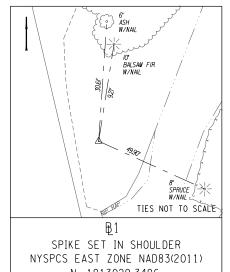
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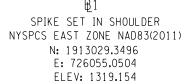
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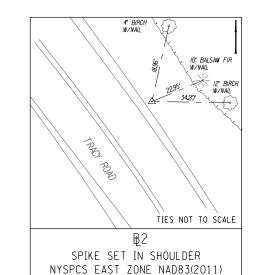
699.040001 MOBILIZATION

TABLE OF HORIZONTAL ALIGNMENT								
POINT STATION CURVE DATA COORDINATE								
POINT	STATION	CURVE DATA	NORTH	EAST				
		TRACY ROAD						
POB	TR. 1+00.00	AZ S 36°27'38.7" E LENGTH =27.4447 FT	1913202.0937	725953.3483				
PC PI	TR. 1+27.44 TR. 1+98.84	RADIUS = 350.0000 FT DELTA =23°03'32.8" RT LENGTH = 140.8602 FT	1913180.0210 1913122.5994	725969.6578 726012.0867				
PT	TR. 2+68.30	TANGENT =71.3964 FT AZ S 13°24'05.8" E	1913053.1472	726028.6346				
P0E	TR. 5+40.32	LENGTH =272.0186 FT	1912788.5359	726091.6818				
FEEDER POND OUTLET								
POB	-0+00.01	AZ S 36°35′54.2" W	1913020.7609	726071.4710				
P0E	0+89.19	LENGTH =89.1949 FT	1912949.1522	726018.2928				

	ESTIMATE OF QUANTITIES			
			ESTIMATED	FINAL
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	QUANTITY
	CLEARING AND GRUBBING	LS	1	QUALITY I
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	86	
203.03	EMBANKMENT IN PLACE	CY	283	
203.21	SELECT STRUCTURE FILL	CY	151	
203,24010017	SHOULDER BACKUP MATERIAL	TON	6	
206.01	STRUCTURE EXCAVATION	CY	768	
206.0201	TRENCH AND CULVERT EXCAVATION	CY	80	
207.20	GEOTEXTILE BEDDING	SY	125	
207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SY	103	
209.13	SILT FENCE-TEMPORARY	LF	200	
304.12	SUBBASE COURSE, TYPE 2	CY	134	
404.128301	12.5 F3 TOP COURSE WMA, 80 SERIES COMPACTION	TON	42	
	19 F9 BINDER COURSE WMA, 80 SERIES COMPACTION	TON	66	
407.0102	DILUTED TACK COAT	GAL	54	
553.030001	TEMPORARY WATERWAY DIVERSION STRUCTURE	EACH	1	
568.50	STEEL BRIDGE RAILING (TWO RAIL)	LF	31	
568.70	TRANSITION BRIDGE RAILING	LF	128	
595.50000018	SHEET-APPLIED WATERPROOFING MEMBRANE	SF	514	
603.64090615	PRECAST CONCRETE BOX CULVERT (FILL HEIGHT 24 IN OR GREATER) 9 FOOT SPAN, 6 FOOT RISE	LF	56	
606.120101	BOX BEAM END PIECE	EACH	4	
610.16010020	TURF ESTABLISHMENT - PERFORMANCE	SY	136	
613.04000001	STOCKPILING AND PLACING EXISTING STREAM BED MATERIALS	CY	29	
615.01010108	MATERIAL FOR STREAM BED ESTABLISHMENT	CY	8	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1	
620.03	STONE FILLING (LIGHT)	CY	6	
620.04	STONE FILLING (MEDIUM)	CY	63	
620.0801	BEDDING MATERIAL, TYPE 1	CY	10	
623.12	CRUSHED STONE (IN-PLACE MEASURE)	CY	45	
625.01	SURVEY OPERATIONS	LS	1	
627.50140008	CUTTING PAVEMENT	LF	64	
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARYSNOWPLOWING MARKER PANELS	EACH	6	
646.32	STEEL POST, 2.0 LB/FT	EACH	4	
697.03	FIELD CHANGE PAYMENT	DC	20400	







N: 1913155.4386

E: 726004.1975

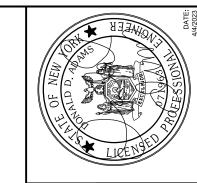
ELEV: 1327.65

		TA	BLE OF	BENCHMARKS	
NO.	R STATION	OFFSET	SIDE	DESCRIPTION	ELEVATION
BM 1	TR 02+69.47	31.3′	LT	RAILROAD SPIKE SET IN 6" ASH	1321.92
BM 2	TR 02+20.14	25 . 9′	LT	RAILROAD SPIKE SET IN 8" POPLAR	1317.40

- 1. THE BASELINE INFORMATION TO BE PROVIDED IN DIGITAL FORMAT AS SUPPLEMENTAL INFORMATION TO THE CONTRACTOR.
- 2. VERTICAL DATUM BASED ON NAVD88 (CORS DERIVED).

				TABL	OF GUIDE RAIL	
STA	TION	SIDE	ITEM	ITEM	ITEM	ITEM
FROM	T0	JIDE	568.50 (LF)	568.70 (LF)	606.120101 (EACH)	646.22 (EACH)
TR 2+82.7	TR 2+82.7	LT			1	
TR 2+89.7	TR 3+01.6	LT		12<50>		2
TR 3+01.6	TR 3+21.6	LT		20		
TR 3+21.6	TR 3+36.9	LT	15.3			
TR 3+36.9	TR 3+56.9	LT		20		
TR 3+56.9	TR 3+68.8	LT		12<50>		1
TR 3+68.8	TR 3+75.8	LT			1	
TR 3+03.6	TR 3+10.7	RT			1	
TR 3+10.7	TR 3+22.5	RT		12<50>		2
TR 3+22.5	TR 3+42.5	RT		20		
TR 3+42.5	TR 3+57.9	RT	15.3			
TR 3+57.9	TR 3+77.9	RT		20		
TR 3+77.9	TR 3+89.8	RT		12<50>		
TR 3+89.8	TR 3+96.8	RT			1	1
	TOTA	L	31	128	4	6

	TABLE OF GUIDE RAIL ITEMS AND DESCRIPTIONS	
ITEM	DESCRIPTION	UNITS
568.50	STEEL BRIDGE RAIL (TWO-RAIL)	LF
568.70	TRANSITION BRIDGE RAILING	LF
606.120101	BOX BEAM GUIDE RAIL END PIECE	EACH
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARYSNOWPLOWING MARKER PANELS	EACH



	ON.	REVISION	DATE	ВУ
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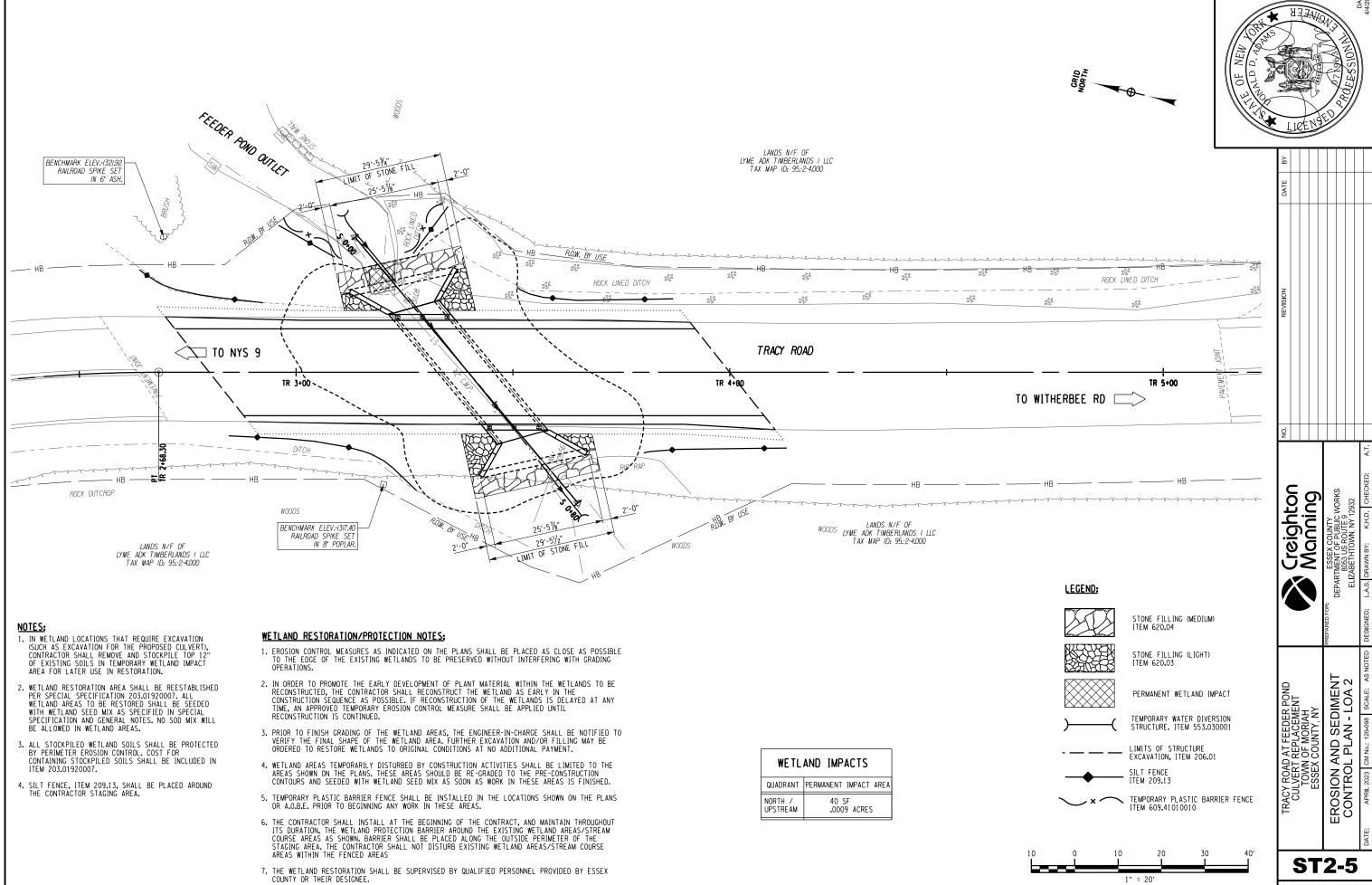
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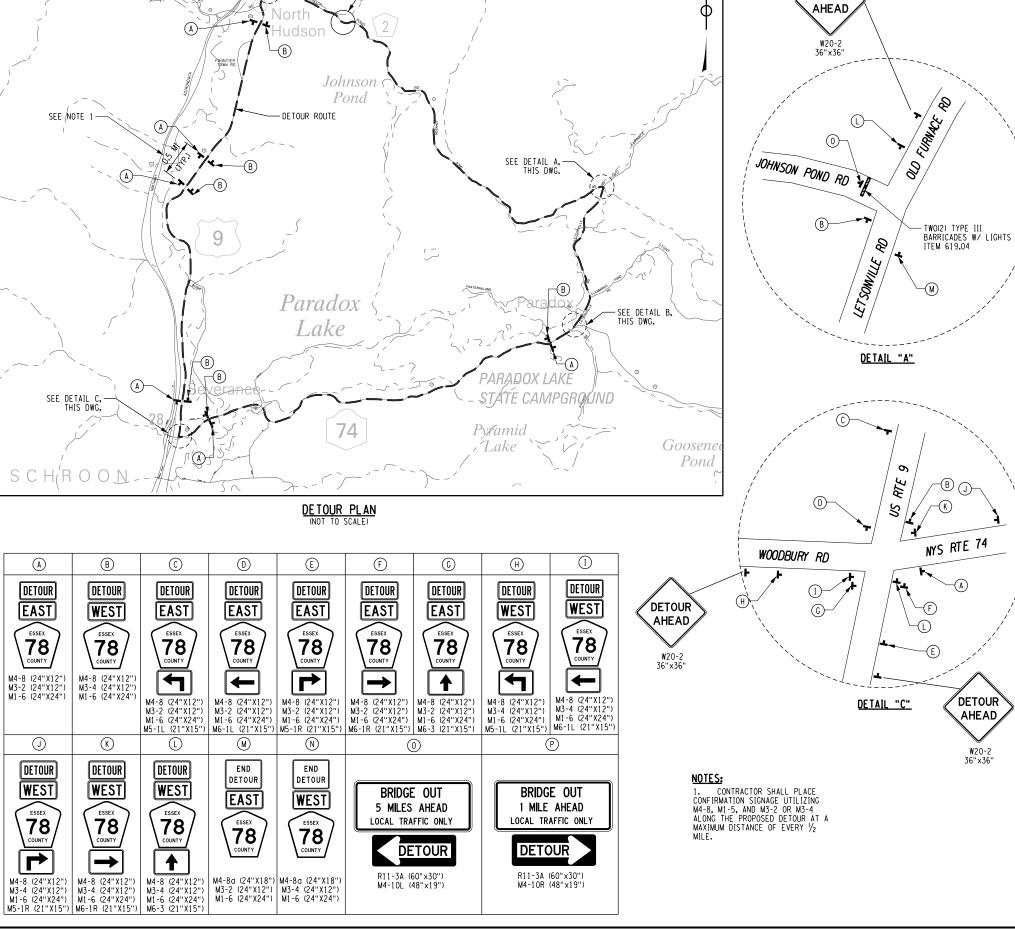
MISCELLANEOUS TABLES - LOA

OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR. . IS ALTERED, THE ALTERINC ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR IGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. UNDER THE DIRECTION OF LICENSED PROFESSIONAL POLLOWED BY THEIR SIG NG A L Y ARE ACTI STAMP OF "ALTERED 世世の ERSON, UNLESS ITEM BEARING UDE THE NOTATI AN IF **₽**₹3 NE HE A VIOLAT TER AN IT STAMP T Z | | HCX

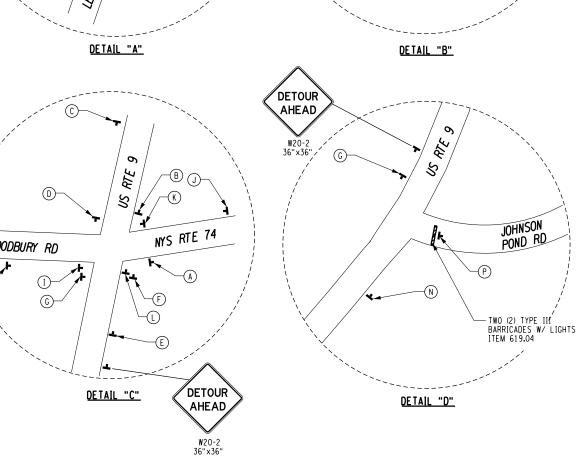
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PROJECT LOCATION



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TCP3-1

Creighton Manning

ESSEX COUNTY TMENT OF PUBLIC WORKS 8053 US ROUTE 9 TABETHTOWN, NY 12932

WORK ZONE TRAFFIC CONTROL DETOUR PLAN - LOA 3

JOHNSON POND CULVERT REPLACEMENT TOWN OF NORTH HUDSON ESSEX COUNTY, NY

LEGEND

DETOUR ROUTE

SIGN FACE NUMBER

DETOUR SIGN LOCATION

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENCINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENCINEER, 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.

CRID NORTH - WINGWALL - 42-11/1/2- 84V IMIS FOR TEM 033-6470555 4'-11'/4" 4'-11'/4" 26°47′51" © JOHNSON POND RD-STA. LINE, & H.C.L., T.G.L. BEGIN OPENING STA. 6+93.29 - END OPENING STA. 7+03.93 7+00 ROADWAY STA. 6+98.59 CULVERT STA. 0+27.17 WINGWALL 3 -WINGWALL 4 23'-1" CULVERT LAYOUT PLAN EL. 1141.35 (AT WINGWALL 1 EL. 1141.85 (AT WINGWALL 3 EL. 1141.10 (AT WINGWALL 2) EL. 1141.40 (AT WINGWALL 4) PRECAST HEADWALL -5′-0" 1'-0" ASSUMED (TYP.) 9'-6" CULVERT SECTION A-A

SCALE: 1"=5'-0"

•• ELEVATIONS ARE AT OUTSIDE FACE OF HEADWALL, BOTH SIDES OF CULVERT (TYP.)

	WIN	IGWALL DATA	TABLE	
LOCATION	ELEVATION A	ELEVATION B	ELEVATION C	DIMENSION "L"
WINGWALL 1	1141.35	1135.67	•	10'-0"
WINGWALL 2	1141.00	1135.67	•	10'-0"
WINGWALL 3	1141.85	1136.67	•	8′-0"
WINGWALL 4	1141.40	1136.67	٠	8'-0"

•	VARIES	SEE	TABLE	0F	COORDINATES	THIS	SHEE
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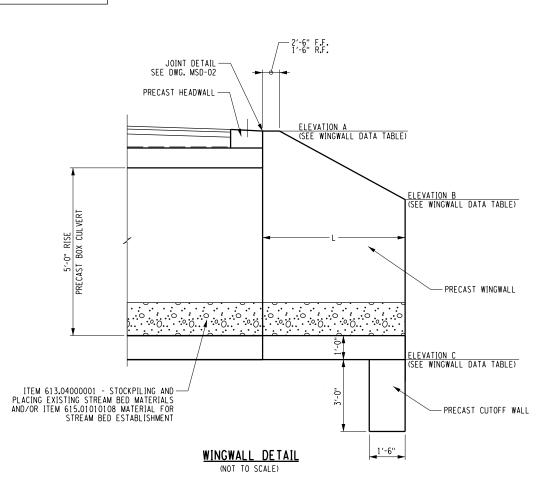
HYDRA	AULIC DATA		
DRAINAGE AREA = 0.84 mi	,	DESIGN FLOOD	BASE FLOOD
RECURRENCY INTERVAL		50	100
PEAK DISCHARGE		92	106
HIGH WATER ELEVATION	EXIST	1137.88	1138.06
@ PT. OF MAX BACKWATER	PROP.	1136.96	1137.02
AVG. VELOCITY THRU STRUG © DESIGN FLOOD =	CTURE	2.4	2.8

CULVERT	DESIGN	DATA	TABLE
CLEAR SP	AN, FT	9	'-6"
CLEAR RI	SE, FT	5	'-0"
• MIN. FILL H	HEIGHT, FT	2′	-0"
• MAX. FILL	HEIGHT, FT	2′	-6"
(@ SKEW) SKE TO CHORD		26°4	7′51"
LIVE L	OAD	HL	-93

• BASED ON ASSUMED TOP SLAP THICKNESS OF 12". FABRICATOR SHALL ADJUST BASED ON ACTUAL TOP SLAB THICKNESS.

	TABLE OF	COORDINATES	
DESCRIPTION	NORTHING	EASTING	ELEVATION
P1: LT BEGIN	701128.7500	1864927.7679	1132.00
P2: LT END	701138.0313	1864923.1709	1131.90
P3: RT BEGIN	701116.9218	1864904.0505	1132.65
P4: RT END	701115.9447	1864904.5345	1132.55
P5: LT BEGIN	701125.5846	1864937.3152	1131.90
P6: LT END	701147.5494	1864926.4405	1131.65
P7: RT BEGIN	701099.0460	1864906.4955	1132.85
P8: RT END	701118.4624	1864896.8791	1132.65

•• ELEVATIONS ARE AT BOTTOM OF SLAB (TYP.)





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	CHNSON BOND CLILVEDT BEBLACEMENT	TOWN OF NORTH HUDSON	ESSEX			LAYOUT PLAN - LOA 3) : i	
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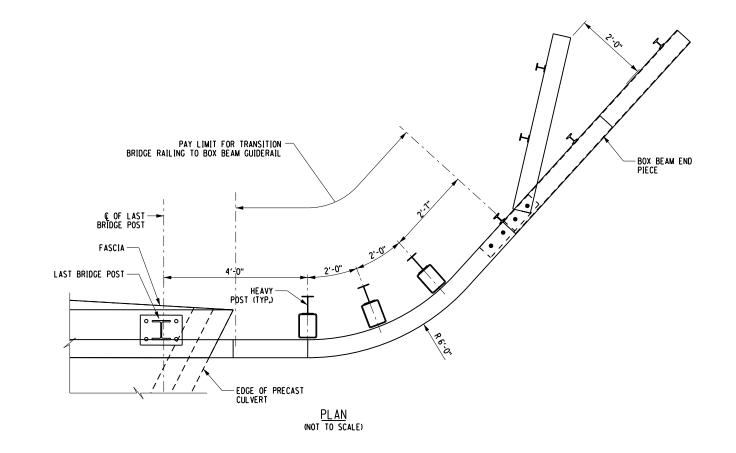
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	TABL	E OF HORIZONTAL AL	IGNMENT	
POINT	STATION	CURVE DATA	COORD	INATE
1 01141	STATION	CONTE DATA	NORTH	EAST
		JOHNSON POND ROAD		
POB	10+00.00	AZ 118°51′26" LENGTH =149.56 FT	1865001.4165	700962.3385
PC PI	11+49.56 12+48.00	RADIUS = 320.00 FT DELTA =34°11'59.67" LT LENGTH = 191.01 FT TANGENT =98.44 FT	1864929.2355 1864881.7234	701093.3255 701179.5458
PΤ	13+40.57	AZ 84°39'26"	1864890.8899	701277.5627
P0E	13+56.08	LENGTH =15.51 FT	1864892.3344	701293.0093
		STREAM		
POB	0+00.00	AZ 49°50′51"	1864898.5219	701101.4515
POE	0+54.32	LENGTH =54.33 FT	1864933.5519	701142.9737



	ESTIMATE OF QUANTITIES								
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY					
201.06	CLEARING AND GRUBBING	LS	1						
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	48						
203.03	EMBANKMENT IN PLACE	CY	189						
203.21	SELECT STRUCTURE FILL	CY	85						
203.24010017	SHOULDER BACKUP MATERIAL	TON	9						
206.01	STRUCTURE EXCAVATION	CY	461						
206.0201	TRENCH AND CULVERT EXCAVATION	CY	74						
207.20	GEOTEXTILE BEDDING	SY	103						
207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SY	71						
209.13	SILT FENCE-TEMPORARY	LF	105						
304.12	SUBBASE COURSE, TYPE 2	CY	82						
404.128301	12.5 F3 TOP COURSE WMA, 80 SERIES COMPACTION	TON	28						
404.198901	19 F9 BINDER COURSE WMA, 80 SERIES COMPACTION	TON	45						
407.0102	DILUTED TACK COAT	GAL	15						
553.030001	TEMPORARY WATERWAY DIVERSION STRUCTURE	EACH	1						
568.50	STEEL BRIDGE RAILING (TWO RAIL)	LF	28						
568.70	TRANSITION BRIDGE RAILING	LF	105						
595.50000018	SHEET-APPLIED WATERPROOFING MEMBRANE	SF	405						
603.64100515	PRECAST CONCRETE BOX CULVERT	LF	43						
606.120101	BOX BEAM END PIECE	EACH	4						
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS,AND VEGETATION CONTROL STRIPS	TON	3						
610.16010020	TURF ESTABLISHMENT - PERFORMANCE	SY	94						
613.04000001	STOCKPILING AND PLACING EXISTING STREAM BED MATERIALS	CY	20						
615.01010108	MATERIAL FOR STREAM BED ESTABLISHMENT	CY	6						
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1						
620.03	STONE FILLING (LIGHT)	CY	6						
620.04	STONE FILLING (MEDIUM)	CY	57						
620.0801	BEDDING MATERIAL, TYPE 1	CY	10						
623.12	CRUSHED STONE (IN-PLACE MEASURE)	CY	37						
625.01	SURVEY OPERATIONS	LS	1						
627.50140008	CUTTING PAVEMENT	LF	64						
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARYSNOWPLOWING MARKER PANELS	EACH	6						
646.32	STEEL POST, 2.0 LB/FT	EACH	4						
697.03	FIELD CHANGE PAYMENT	DC	16000						
699.040001	MOBILIZATION	LS	1						

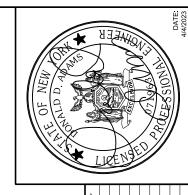
	TABLE OF BENCHMARKS										
NO.	NO. B STATION OFFSET SIDE DESCRIPTION ELEVATIO										
BM 1	11+17.08	17.70′	RT	SPIKE IN SPRUCE TREE	1145.76						
BM 2	12+42.84	21.24′	LT	SPIKE IN SPRUCE TREE	1139.93						

NOTES:

- 1. THE BASELINE INFORMATION TO BE PROVIDED IN DIGITAL FORMAT AS SUPPLEMENTAL INFORMATION TO THE CONTRACTOR.
- 2. VERTICAL DATUM BASED ON NAVD88 (CORS DERIVED).

	TABLE OF GUIDE RAIL										
STA	TION		ITEM 568.50	ITEM 568.70	ITEM	ITEM 646.22					
FROM	FROM TO		(LF)	(LF) <radius></radius>	606.120101 (EA)	(EA)					
6+65.0	6+85.2	LT		20<50>	1						
6+85.2	6+97.5	LT		12		2					
6+97.5	7+11.8	LT	14.0								
7+11.8	7+13.9	LT		2							
7+13.9	7+18.3	LT		5 <6>		1					
7+18.3	7+20.1	LT		2	1						
6+55.3	6+68.7	RT		14<150>							
6+68.7	6+86.2	RT		18	1	2					
6+86.2	6+99.7	RT	14.0								
6+99.7	7+17.4	RT		18							
7+17.4 7+30.8 RT			14<150>	1	1						
	TOTAL		28	102	4	6					

TABLE OF	F GUIDE RAIL ITEMS AND I	DESCRIPTIONS
ITEM	DESCRIPTION	UNITS
568.50	STEEL BRIDGE RAILING (TWO RAIL)	LF
568.70	TRANSITION BRIDGE RAILING	LF
606.120101	BOX BEAM END PIECE	EA



REVISION DATE BY							
NO.			PREPARED FOR: ESSEX COUNTY	ONGOING TO HARMED A GLIC	DEPAKIMENI OF POBLIC WORKS	ELIZABETHTOWN, NY 12932	ADDII 2022 CM No. 120 000 SCALE: ASNOTED DESIGNED: CO DEDAMNIBY: I AS
CHINEON DOND CHILLISTED ACEMENT	TOWN FOILD COLVER! REPLACEMEN!	ESSEX COUNTY, NY			MISCELLANFOUS TABLES - LOA 3		DATE ABBILDON CM No. 120 000 CCALE AS NOTED

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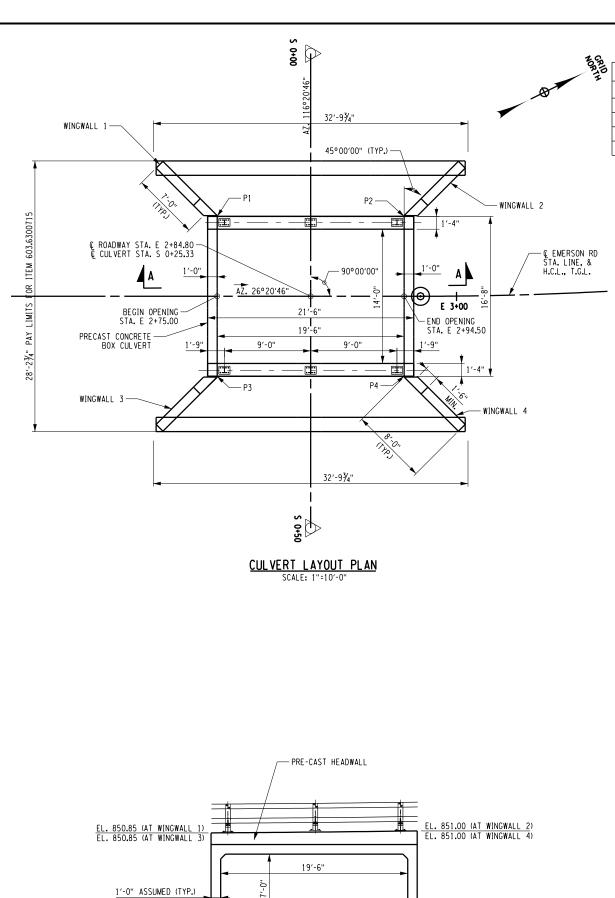
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OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR. IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER,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

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CULVERT SECTION A-A
SCALE: 1"=10'-0"

•• ELEVATION ARE AT OUTSIDE FACE OF HEADWALL (TYP.) BOTH SIDES OF CULVERT

5	WINGWALL DATA TABLE											
	LOCATION	ELEVATION A	ELEVATION B	ELEVATION C	DIMENSION "L"							
	WINGWALL 1	850.85	849.70	841.00	8'-0"							
	WINGWALL 2	851.00	849.70	841.00	8'-0"							
	WINGWALL 3	850.85	847.70	841.00	8′-0"							
	WINGWALL 4	851.00	847.70	841.00	8'-0"							

HYDRAULIC DATA											
DRAINAGE AREA = 8.12 mi	DESIGN FLOOD	BASE FLOOD									
RECURRENCY INTERVAL (YE	ARS)	50	100								
PEAK DISCHARGE (CFS)		346	446								
HIGH WATER ELEVATION	EXIST (FT.)	851.12	851.27								
@ PT. OF MAX BACKWATER	PROP. (FT.)	848.73	849.11								
AVG. VELOCITY THRU STRU @ DESIGN FLOOD =	8.6	8.2									

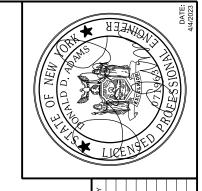
CULVERT DESIGN	DATA TABLE				
CLEAR SPAN, FT	19'-6"				
CLEAR RISE, FT	7′-0"				
• MIN. FILL HEIGHT, FT	10"				
• MAX. FILL HEIGHT, FT	15"				
(@ SKEW) SKEW ANGLE TO @ OF ROADWAY, DEG.	0°				
LIVE LOAD	HL-93				
* BASED ON ASSUMED T	UD SI VD THICKNESS				

• BASED ON ASSUMED TOP SLAP THICKNESS OF 12". FABRICATOR SHALL ADJUST BASED ON ACTUAL TOP SLAB THICKNESS.

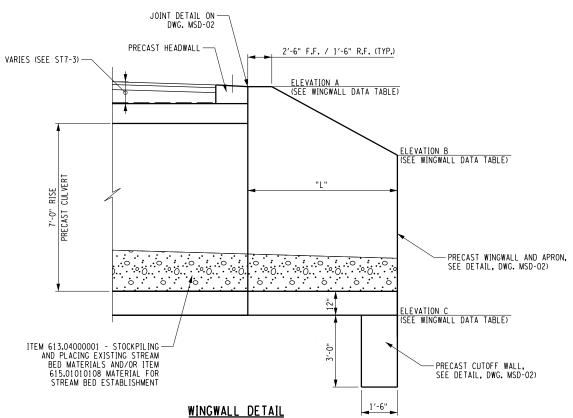
* 1.2 MIN. LRFR RATING INVENTORY

TABLE OF COORDINATES										
DESCRIPTION	NORTHING	EASTING	ELEVATION.							
P1: LT BEGIN	683559.4045	1823740.867	841.00							
P2: LT END	683568.0585	1823758.342	841.00							
P3: RT BEGIN	683574.34	1823733.471	841.00							
P4: RT END	683582.994	1823750.945	841.00							

• ELEVATIONS ARE AT BOTTOM OF SLAB (TYP.)



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FRSON	RT RE	VN OF S	LY CO					i		APRIL 2023 CM No.: 120-098	
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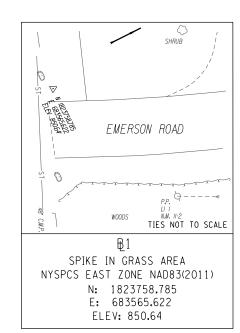
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POINT	STATION	CURVE DATA	COORDINATE			
			NORTH	EAST		
		EMERSON ROAD				
POB	E. 1+00.00	AZ 26°20′46.40"	1823580.31	683489.1		
PC PI	E. 3+03.58 E. 3+68.92	LENGTH =203.58 FT RADIUS = 300.00 FT DELTA =24°34′18.31" LT	1823762.75 1823821.29	683579 . 5 683608 . 5		
PT	E. 4+32.24	LENGTH = 128.66 FT TANGENT =65.33 FT AZ 1°46'28.09"	1823886.60	683610.5		
P0E	E. 4+34.17	LENGTH =1.93 FT	1823888.53	683610.6		
		STREAM	1			
POB	0+00.00	AZ 116°20′46.40"	1823757.15	683548.5		
P0E	0+49.50	LENGTH =49.50 FT	1823735.18	683592.8		

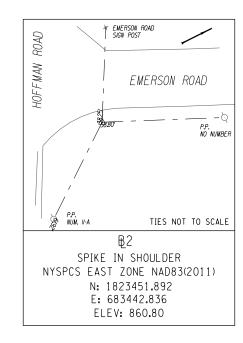
		TAI	BLE OF	BENCHMARKS	
NO.	R STATION	OFFSET	SIDE	DESCRIPTION	ELEVATION
BM 1	1+22.15	21.39′	RT	RAILROAD SPIKE FOUND IN POWER POLE	853.88
BM 2	3+24.88	18.15′	RT	RAILROAD SPIKE FOUND IN POWER POLE	851.21

- 1. THE BASELINE INFORMATION TO BE PROVIDED IN DIGITAL FORMAT AS SUPPLEMENTAL INFORMATION TO THE CONTRACTOR.
- 2. VERTICAL DATUM BASED ON NAVD88 (CORS DERIVED).

			TABLE OF	GUIDE RAIL		
STA	TION		ITEM 568.50	ITEM 568.70	ITEM	ITEM 646.22
FROM	то	SIDE	(LF)	(LF) <radius></radius>	606.120101 (EA)	(EA)
2+34.9	2+42.0	LT			1	
2+42.0	2+60.8	LT		19<88>		2
2+60.8	2+73.8	LT		13		
2+73.8	2+95.8	LT	22.00			
2+95.8	2+97.8	LT		2		
2+97.8	3+18.1	LT		20<75>		
3+18.1	3+27.6	LT		10<25>		1
3+27.6	3+33.9	LT			1	
2+34.9	2+42.0	RT			1	
2+42.0	2+60.8	RT		19<88>		2
2+60.8	2+73.8	RT		13		
2+73.8	2+95.8	RT	22.00			
2+95.8	3+05.6	RT		10		
3+05.6	3+26.1	RT		22<50>		
3+26.1	3+32.0	RT			1	1
	TOTAL		44	128	4	6

	TABLE OF GUIDE RAIL ITEMS AND DESCRIPTIONS	
ITEM	DESCRIPTION	UNITS
568.50	STEEL BRIDGE RAILING (TWO RAIL)	EA
568.70	TRANSITION BRIDGE RAILING	LF
606.120101	BOX BEAM END PIECE	LF
646.22	DELNEATOR, SNOWPLOWING MARKER, SUPPLEMENTARYSNOWPLOWING MARKER PANELS	LF





	ESTIMATE OF QUANTITIES			
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
201.06	CLEARING AND GRUBBING	LS	1	
203.01920007	WETLAND RESTORATION	CY	2	
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	58	
	EMBANKMENT IN PLACE	CY	210	
203.21	SELECT STRUCTURE FILL	CY	74	
203.24010017	SHOULDER BACKUP MATERIAL	TON	4	
206.01	STRUCTURE EXCAVATION	CY	861	
206.0201	TRENCH AND CULVERT EXCAVATION	CY	59	
207.20	GEOTEXTILE BEDDING	SY	87	
207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SY	69	
209.13	SILT FENCE-TEMPORARY	LF	132	
304.12	SUBBASE COURSE, TYPE 2	CY	40	
404.018901	TRUING & LEVELING F9, WMA, 80 SERIES COMPACTION	TON	13	
404.128301	12.5 F3 TOP COURSE WMA, 80 SERIES COMPACTION	TON	17	
404.198901	19 F9 BINDER COURSE WMA, 80 SERIES COMPACTION	TON	30	
407.0102	DILUTED TACK COAT	GAL	10	
553.030001	TEMPORARY WATERWAY DIVERSION STRUCTURE	EACH	1	
568.50	STEEL BRIDGE RAILING (TWO RAIL)	LF	44	
568.70	TRANSITION BRIDGE RAILING	LF	128	
595,50000018	SHEET-APPLIED WATERPROOFING MEMBRANE	SF	554	
603.63200715	PRECAST CONCRETE BOX CULVERT (FILL HEIGHT LESS THAN 24 IN)	LF	29	
606.120101	BOX BEAM END PIECE	EACH	4	
610.16010020	TURF ESTABLISHMENT - PERFORMANCE	SY	50	
613.04000001	STOCKPILING AND PLACING EXISTING STREAM BED MATERIALS	CY	53	
615.01010108	MATERIAL FOR STREAM BED ESTABLISHMENT	CY	14	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1	
620.03	STONE FILLING (LIGHT)	CY	5	
620.05	STONE FILLING (HEAVY)	CY	91	
	BEDDING MATERIAL, TYPE 1	CY	11	
	CRUSHED STONE (IN-PLACE MEASURE)	CY	36	
625.01	SURVEY OPERATIONS	LS	1	
	CUTTING PAVEMENT	I F	42	
	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARYSNOWPLOWING MARKER PANELS	EACH	6	
646.32	STEEL POST, 2.0 LB/FT	EACH	4	
697.03	FIELD CHANGE PAYMENT	DC	14000	
	MOBILIZATION	LS	1	



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