STATE BRIDGE No. 03955R

TOMAC AVE. (MP 31.61)

RATING SUMMARY TABLE			
ELEMENT	RATING FORCE	COOPER E80 RATING	
		NORMAL	MAXIMUM
GIRDER FASCIA	MOMENT	E85	E130
	SHEAR	E159	E283
GIRDER INTERIOR	MOMENT	E85	E131
	SHEAR	E95	E173

CONCRETE DISTRIBUTION	
SUPERSTRUCTURE	- CY
SUBSTRUCTURE	45.0 CY
FOOTINGS	- CY
TOTAL	45.0 CY

INSPECTION OF FIELD WELDS		
METHOD	UNIT	QUANTITY
ULTRASONIC	INCHES	NONE
MAGNETIC PARTICLE	FEET	NONE

GIRDER SHIPPING DATA				
GIRDER TYPE	HEIGHT	WIDTH	LENGTH	WEIGHT (LBS)
FASCIA	3'-2"	1'-1"	34'-4"	8,376
INTERIOR	3'-2"	1'-6"	34'-4"	15,809

NOTICE TO BRIDGE INSPECTORS

THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION, (THE LISTING OF COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE). THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF BRIDGE SAFETY AND EVALUATION.

COMPONENT OR DETAIL	BRIDGE SHEET REFERENCE
GIRDERS	SUBSET 12, S-22

ESTIMATED WEIGHTS AND LENGTHS				
SITE NO.	BRIDGE NO.	NO. OF SPANS**	EST. WEIGHT OF STRUCT. STEEL* (CWT)	LENGTH OF BRIDGE** (FEET)
2	03955R	1	2,820	32

*ESTIMATED VALUES INCLUDE ALLOWABLE OVERRUNS OR WASTE.

**SPAN LENGTHS ARE BASED ON CENTER TO CENTER OF BEARINGS.

CATENARY WIRE HEIGHTS*		CAT. TOWER NUMBER:	
		342	343
TRACK 3	CONTACT WIRE HT. H.R.L.	17'-7"	17'-7"
	MESSENGER WIRE HT. H.R.L.	21'-1"	21'-1"
	UNDERSIDE OF TRUSS TO H.R.L.	22'-4"	22'-1"
TRACK 1	CONTACT WIRE HT. H.R.L.	17'-7"	17'-7"
	MESSENGER WIRE HT. H.R.L.	21'-1"	21'-1"
	UNDERSIDE OF TRUSS TO H.R.L.	22'-4"	22'-1"
TRACK 2	CONTACT WIRE HT. H.R.L.	17'-7"	17'-7"
	MESSENGER WIRE HT. H.R.L.	21'-1"	21'-1"
	UNDERSIDE OF TRUSS TO H.R.L.	22'-4"	22'-1"
TRACK 4	CONTACT WIRE HT. H.R.L.	17'-7"	17'-7"
	MESSENGER WIRE HT. H.R.L.	21'-1"	21'-1"
	UNDERSIDE OF TRUSS TO H.R.L.	22'-4"	22'-1"

*INFORMATION OBTAINED FROM CONTRACT DOCUMENTS "CATENARY REPLACEMENT BETWEEN STRUCTURES 236 AND 356A" AS-BUILT DRAWINGS DATED 5/9/06, DWG NO. L-36AB.

CATENARY WIRE HEIGHTS DIFFER AT BRIDGE LOCATION DUE TO SAG IN WIRE. CONTRACTOR SHALL SURVEY ACTUAL HEIGHT.

THIS INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATION BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OF ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED

Arthur DiCesare
2014.03.07
14:28:22-05'00'

ADDENDUM NO. 1

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
A1	02/25/14	ENTIRE SHEET REPLACED	12.03.A1

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/7/2014

DESIGNER/DRAFTER: **S.Yarmolinsky, P.E.**
CHECKED BY: **A.DiCesare, P.E.**

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br03955_0301_0092_S-02.dgn

SIGNATURE/ BLOCK: ADA — A.DiCesare Associates, P.C. 690 Clinton Avenue Bridgeport, CT 06604 203-696-0444 www.adicesarepc.com

APPROVED BY: A.DiCesare DATE: 11/27/2013

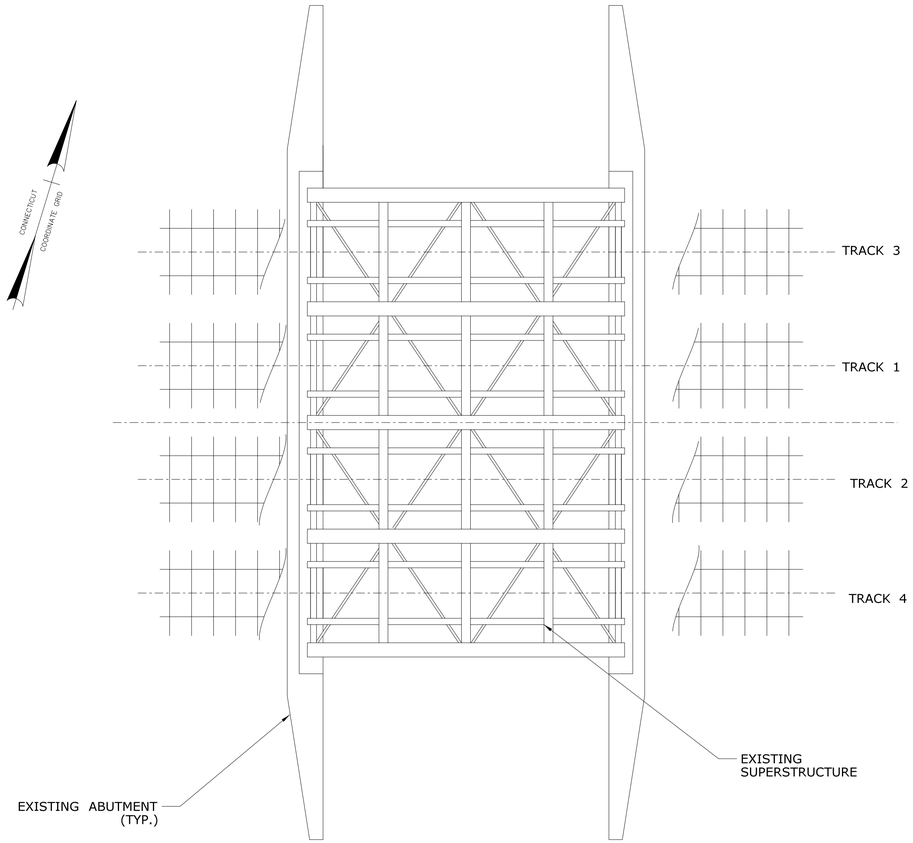
PROJECT TITLE: **REHABILITATION OF METRO-NORTH RAILROAD BRIDGE NO. 03948R AND BRIDGE NO. 03955R**

TOWN: **GREENWICH**

DRAWING TITLE: **GENERAL NOTES - 2**

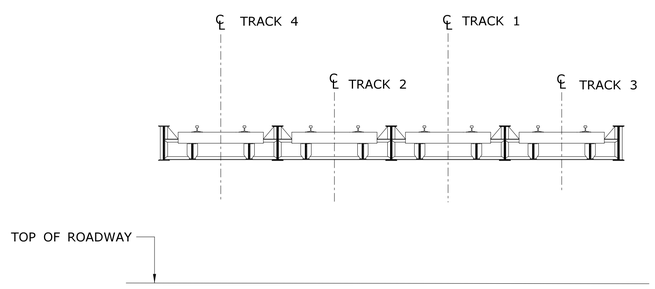
PROJECT NO. **301-092**
DRAWING NO. **S-02**
SHEET NO. **12.03.A1**

Connecticut Department of Transportation
QA/QC Format Check



EXISTING CONDITION-PLAN

SCALE: 1/8" = 1'-0"



EXISTING CONDITION-SECTION

SCALE: 1/8" = 1'-0"

SEQUENCE OF OPERATIONS:

STAGE 1 TAKE TRACK 2 OUT OF SERVICE (BY MNRR FORCES). REMOVE EXISTING SUPERSTRUCTURE EXCEPT FOR GIRDERS (BY CONTRACTOR). INSTALL TEMPORARY SUPERSTRUCTURE (STEEL ROLLED BEAMS AS REQUIRED TO PROVIDE SUPPORT FOR TRACK AND SPACE FOR NEW STRUCTURE INSTALLATION ON ADJACENT TRACKS - BY CONTRACTOR).
INSTALL TIES AND RAILS, USE TIMBER TIES LONG ENOUGH TO COVER ALL TEMPORARY STRINGERS, YET LEAVING SPACE FOR NEW SUPERSTRUCTURE INSTALLATION ON TRACK 4 (BY MNRR FORCES).
PLACE TRACK 2 INTO SERVICE (BY MNRR FORCES).

STAGE 2 TAKE TRACK 4 OUT OF SERVICE (BY MNRR FORCES). REMOVE EXISTING TRACK 4 SUPERSTRUCTURE INCLUDING GIRDERS (BY CONTRACTOR). INSTALL TEMPORARY SOLDIER PILE AND LAGGING (RAILROAD) BETWEEN TRACK 4 AND TRACK 2 (BY CONTRACTOR). REBUILD ABUTMENT BACKWALLS AND BRIDGE SEATS (BY CONTRACTOR). INSTALL TRACK 4 NEW SUPERSTRUCTURE (BY CONTRACTOR), INSTALL BALLAST AND TRACK (BY CONTRACTOR AND MNRR FORCES). PLACE TRACK 4 INTO SERVICE (BY MNRR FORCES).

STAGE 3 TAKE TRACK 1 OUT OF SERVICE (BY MNRR FORCES). REMOVE EXISTING SUPERSTRUCTURE EXCEPT FOR GIRDER BETWEEN TRACKS 1 AND 3 (BY CONTRACTOR). INSTALL TEMPORARY SUPERSTRUCTURE (STEEL ROLLED BEAMS AS REQUIRED TO PROVIDE SUPPORT FOR TRACK AND SPACE FOR NEW STRUCTURE INSTALLATION ON ADJACENT TRACKS - BY CONTRACTOR).
INSTALL TIES AND RAILS, USE TIMBER TIES LONG ENOUGH TO COVER ALL TEMPORARY STRINGERS, YET LEAVING SPACE FOR NEW SUPERSTRUCTURE INSTALLATION ON TRACK 2 (BY MNRR FORCES).
PLACE TRACK 1 INTO SERVICE (BY MNRR FORCES).

STAGE 4 TAKE TRACK 2 OUT OF SERVICE (BY MNRR FORCES). REMOVE TEMPORARY STRINGERS INSTALLED DURING STAGE 1 (BY CONTRACTOR). INSTALL TEMPORARY SOLDIER PILE AND LAGGING (RAILROAD) BETWEEN TRACK 2 AND TRACK 1 (BY CONTRACTOR). REBUILD ABUTMENT BACKWALLS AND BRIDGE SEATS (BY CONTRACTOR). INSTALL TRACK 2 NEW SUPERSTRUCTURE (BY CONTRACTOR), INSTALL BALLAST AND TRACK (BY CONTRACTOR AND MNRR FORCES). PLACE TRACK 2 INTO SERVICE (BY MNRR FORCES).

STAGE 5 TAKE TRACK 3 OUT OF SERVICE (BY MNRR FORCES). REMOVE EXISTING SUPERSTRUCTURE (BY CONTRACTOR). INSTALL TEMPORARY SUPERSTRUCTURE (STEEL ROLLED BEAMS AS REQUIRED TO PROVIDE SUPPORT FOR TRACK AND SPACE FOR NEW STRUCTURE INSTALLATION ON ADJACENT TRACKS - BY CONTRACTOR).
INSTALL TIES AND RAILS, USE TIMBER TIES LONG ENOUGH TO COVER ALL TEMPORARY STRINGERS (BY MNRR FORCES).
PLACE TRACK 3 INTO SERVICE (BY MNRR FORCES).

STAGE 6 TAKE TRACK 1 OUT OF SERVICE (BY MNRR FORCES). REMOVE TEMPORARY STRINGERS INSTALLED DURING STAGE 3 (BY CONTRACTOR). INSTALL TEMPORARY SOLDIER PILE AND LAGGING (RAILROAD) BETWEEN TRACK 1 AND TRACK 3 (BY CONTRACTOR). REBUILD ABUTMENT BACKWALLS AND BRIDGE SEATS (BY CONTRACTOR). INSTALL TRACK 1 NEW SUPERSTRUCTURE (BY CONTRACTOR), INSTALL BALLAST AND TRACK (BY CONTRACTOR AND MNRR FORCES). PLACE TRACK 1 INTO SERVICE (BY MNRR FORCES).

STAGE 7 TAKE TRACK 3 OUT OF SERVICE (BY MNRR FORCES). REMOVE TEMPORARY STRINGERS INSTALLED DURING STAGE 5 (BY CONTRACTOR). REBUILD ABUTMENT BACKWALLS AND BRIDGE SEATS (BY CONTRACTOR). INSTALL TRACK 3 NEW SUPERSTRUCTURE (BY CONTRACTOR), INSTALL BALLAST AND TRACK (BY CONTRACTOR AND MNRR FORCES).

STAGE 8 REMOVE TEMPORARY SOLDIER PILE AND LAGGING (RAILROAD) BETWEEN TRACK 1 AND TRACK 3 (BY CONTRACTOR). PLACE TRACK 3 BACK INTO SERVICE (BY MNRR FORCES).

STAGE 9 COMPLETE ROADWAY WORK UNDER THE BRIDGE (BY CONTRACTOR).

NOTES:

1. MAINTAIN PASSAGEWAY ALONG TOMAC AVENUE ON EITHER THE EAST OR WEST SIDE OR BOTH SIDES OF TOMAC AVENUE. WHEN REQUIRED, CLOSURE OF PASSAGE TO PEDESTRIAN TRAFFIC SHALL BE MINIMIZED AND SHALL NOT EXTEND PASSED WORKING HOURS. SEE DETOUR PLAN DWG. NO. S-13 FOR SIGNING REQUIREMENTS.
2. CLOSURE OF TOMAC AVENUE SHALL BE MINIMIZED AND SHALL NOT EXTEND PASSED WORKING HOURS. SEE DETOUR PLAN DWG. NO. S-13 FOR DETOUR SIGNAGE REQUIREMENTS. REFER TO ITEM #0971001A MAINTENANCE AND PROTECTION OF TRAFFIC.

ADDENDUM NO. 1

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
A1	02/25/14	ENTIRE SHEET REPLACED	12.15.A1

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/7/2014

DESIGNER/DRAFTER: S.Yarmolinsky
CHECKED BY: A.DiCesare, P.E.

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_MSH_Br03955_0301_0092_S-14.dgn

SIGNATURE/BLOCK: ADA — A.DiCesare Associates, P.C. 690 Clinton Avenue Bridgeport, CT 06604 203-696-0444 www.adicesarepc.com

APPROVED BY: A.DiCesare DATE: 11/27/2013

STATE OF CONNECTICUT ANTHONY J. DICESARE 17014079 LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE: REHABILITATION OF METRO-NORTH RAILROAD BRIDGE NO. 03948R AND BRIDGE NO. 03955R

TOWN: GREENWICH

DRAWING TITLE: CONSTRUCTION STAGING - 1

PROJECT NO. 301-092

DRAWING NO. S-14

SHEET NO. 12.15.A1