

New York State Thruway Authority/New York State Canal Corporation
200 Southern Boulevard
Albany, New York 12209

Attention: Richard P. Karis, Jr.
Phone 518-436-3028
richard_karis@thruway.ny.gov

The New York State Thruway Authority/New York State Canal Corporation (NYSTA/CC) is planning to conduct a two and a half hour project review on the proposed Pedestrian Bridge over the NYS Canal/Mohawk River in the City of Amsterdam, Montgomery County, New York. The proposed project involves the construction of a new 500 plus feet long steel-multigirder bridge and approaches. The bridge deck will contain park-like features including tree and flower planters, benches, walls, promenade overhangs and other amenities. The project review will focus on superstructure constructability, in-river access and construction, foundation type and construction schedule. As noted in the agenda below, the review team is scheduled to meet on November 15, 2012 at the NYSTA/CC Bridge Training Room, Bldg. 10, 200 Southern Blvd., Albany, NY 12209 (See Attached Map).

Contractors interested in participating in the project review should submit a letter of interest to the mailing or e-mail address above by November 12, 2012.

AGENDA

NYSTA/CC PROJECT REVIEW INITIATIVE

PIN A94067-Amsterdam Pedestrian Bridge over the NYS Canal/Mohawk River

NYSTA/CC Bridge Training Room-Bldg. 10

200 Southern Blvd, Albany, NY 12209

November 15, 2012 at 12:30 pm

- | | |
|---|------------------------------|
| 1. Introductions | 12:30 pm-12:45 pm |
| 2. Project Overview, Schedule | 12:45 pm-1:15 pm |
| 3. Major Challenges – Presentation and Discussion | 1:15 pm-2:15 pm |
| a. Foundation Construction | |
| b. Superstructure Construction | |
| c. Project Schedule | |
| 4. Group Recommendations | 2:15 pm-3:00 pm |
| 5. Anonymous Written Recommendations | Accepted until Nov. 30, 2012 |

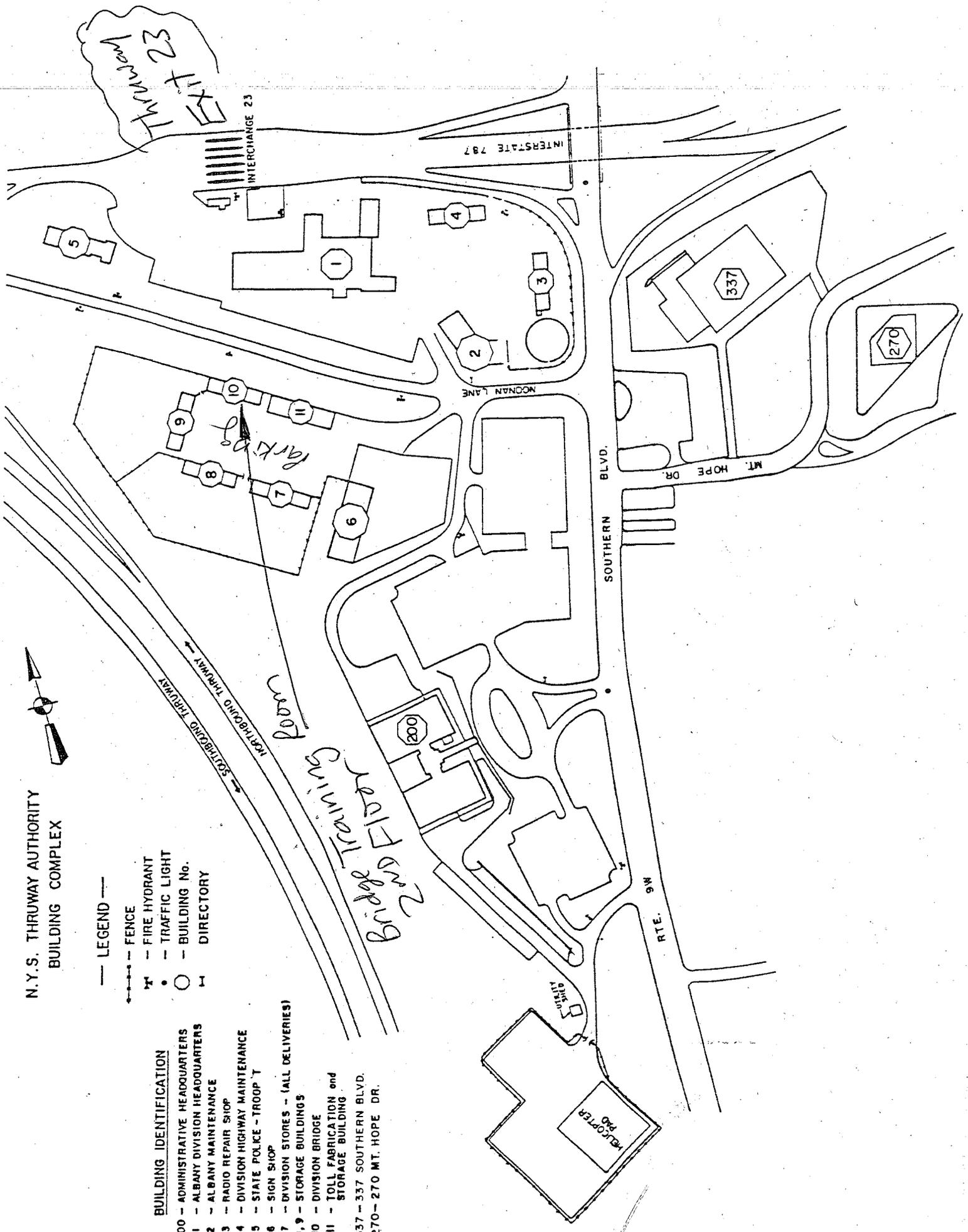
N.Y.S. THRUWAY AUTHORITY
BUILDING COMPLEX



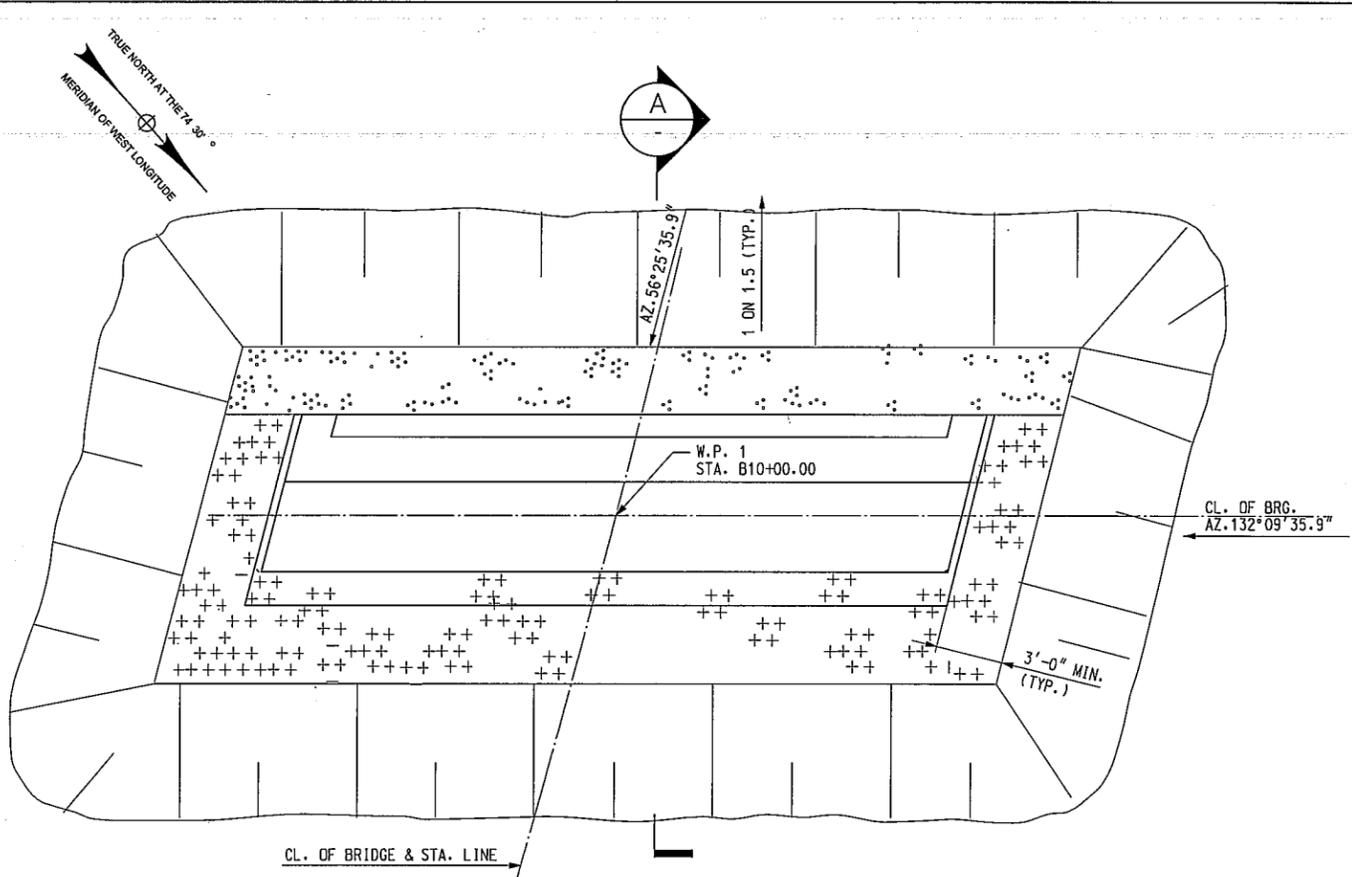
- LEGEND —
- FENCE
 - ⊕ FIRE HYDRANT
 - TRAFFIC LIGHT
 - BUILDING NO.
 - ⊔ DIRECTORY

BUILDING IDENTIFICATION

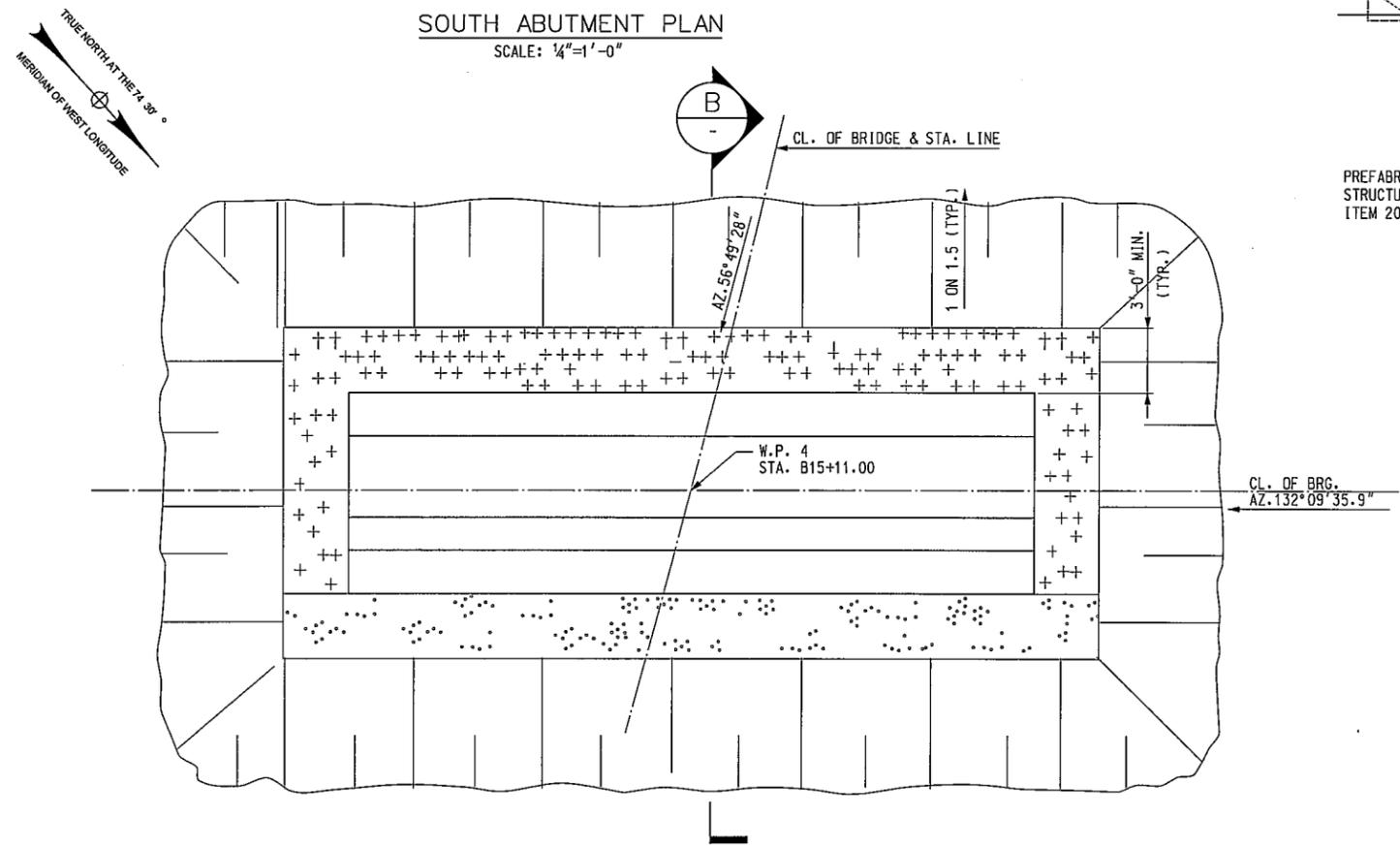
- 200 - ADMINISTRATIVE HEADQUARTERS
- 1 - ALBANY DIVISION HEADQUARTERS
- 2 - ALBANY MAINTENANCE
- 3 - RADIO REPAIR SHOP
- 4 - DIVISION HIGHWAY MAINTENANCE
- 5 - STATE POLICE - TROOP T
- 6 - SIGN SHOP
- 7 - DIVISION STORES - (ALL DELIVERIES)
- 8,9 - STORAGE BUILDINGS
- 10 - DIVISION BRIDGE
- 11 - TOLL FABRICATION and STORAGE BUILDING
- 337 - 337 SOUTHERN BLVD.
- 270-270 MT. HOPE DR.



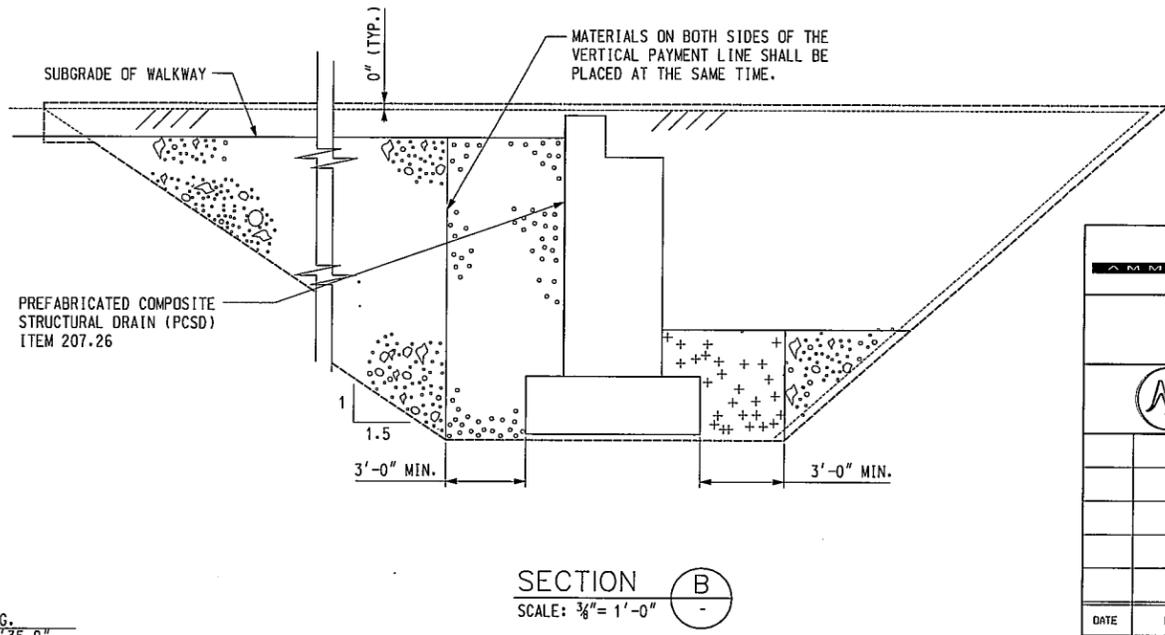
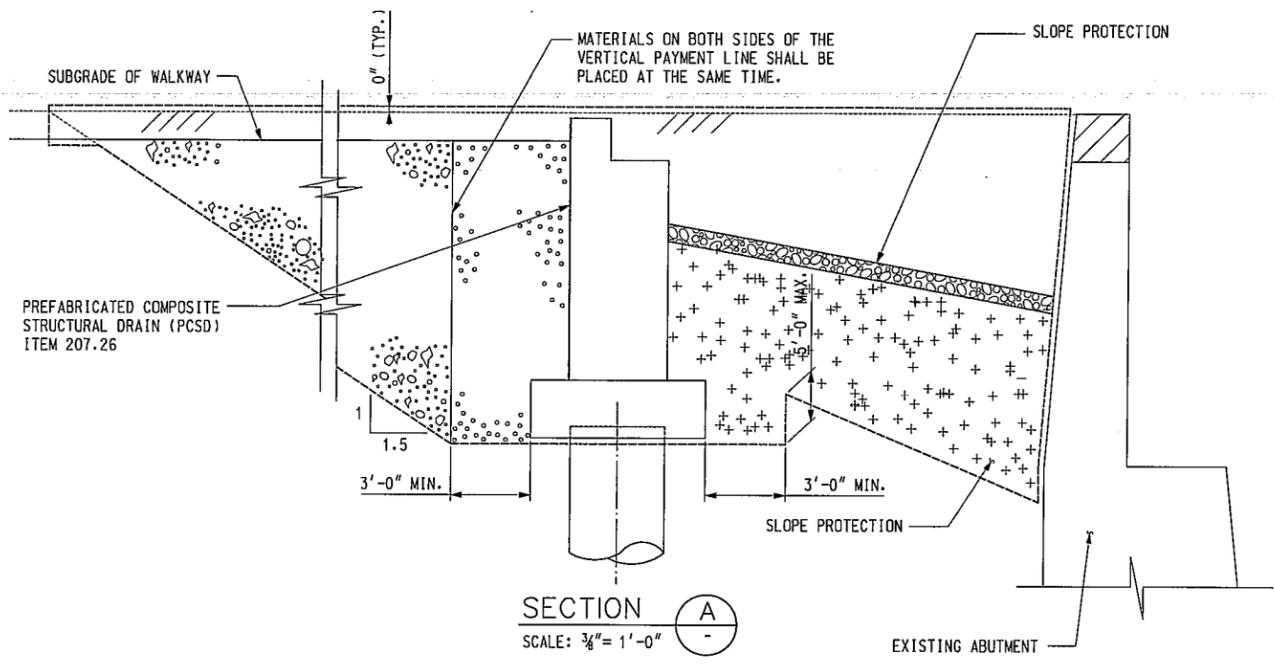
CHECKED BY: _____
 DRAFTED BY: _____
 DESIGNED BY: _____
 IN CHARGE OF: _____



SOUTH ABUTMENT PLAN
SCALE: 1/4"=1'-0"



NORTH ABUTMENT PLAN
SCALE: 1/4"=1'-0"

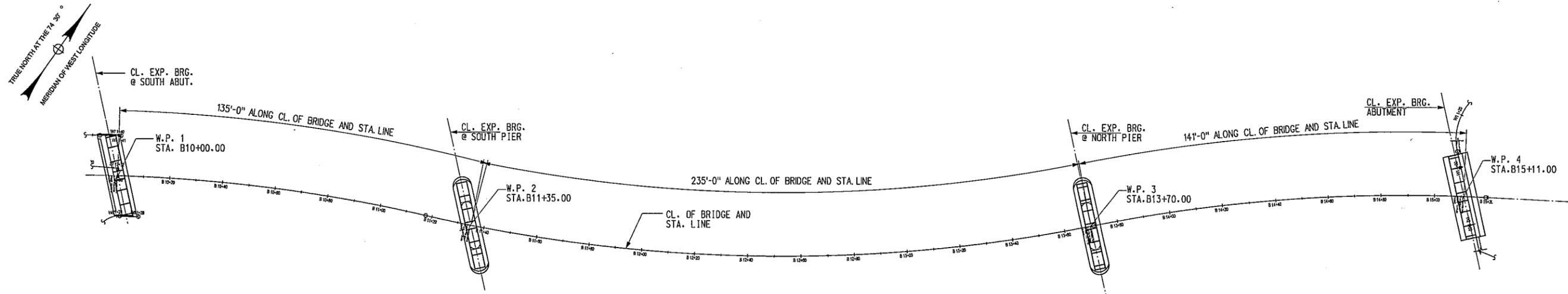


- LEGEND**
- EXISTING GROUND SURFACE
 - SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
 - REMOVAL OF STRUCTURAL CONCRETE. ITEM 580.01
 - BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER STRUCTURE EXCAVATION (ITEM 206.01), OR TRENCH & CULVERT EXCAVATION (ITEM 206.27)
 - PREFABRICATED COMPOSITE STRUCTURAL DRAIN (ITEM 207.26)
 - AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION (ITEM 206.01)

ADVANCE COPY

PREPARED BY: AMMON & WILLEY			
Engineering and Land Surveying, P.C. 1533 Crossroad Road - Clifton Park, NY 12065			
DATE	DESCRIPTION	BY	SYL
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF TRANSPORTATION 100 SOUTH ANNE STREET, ALBANY, NY 12243			
TITLE: HOHAWK RIVER CROSSING OVER THE HOHAWK RIVER			
LOCATION OF PROJECT: MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING: EXCAVATION AND EMBANKMENT NOTES AND LEGEND			
CONTRACT NUMBER: A94067		DATE: OCT 01, 2012	
DRAWING NUMBER: ST-04			

FILE NAME:



WORKING POINT PLAN
SCALE: 1"=20'-0"

CURVE DATA TABLE														
	PC/PRC			PI			PRCPT			CC				
	STATION	NORTHING	EASTING	STATION	NORTHING	EASTING	STATION	NORTHING	EASTING			RADIUS (ft)	DEGREE OF CURVATURE	LENGTH
C-1	B 10+11.00	1494499.3652	573668.3736	B 10+58.97	1494531.8535	573717.5891	B 11+17.57	1494554.1383	573772.1880	1493998.6280	573998.9220	600	9°32'57.47"	117.566
C-2	B 11+17.57	1494554.1383	573772.1880	B 12+46.19	1494602.7450	573891.2768	B 13+70.98	1494695.8968	573979.9759	1495109.6485	573545.4538	601	9°32'57.47"	253.417
C-3	B 13+70.98	1494695.8968	573979.9759	B 14+45.44	1494749.8210	574031.3225	B 15+19.15	1494789.5585	574094.2926	1494282.1450	574414.4980	602	9°32'57.47"	148.163

WORKING POINT COORDINATES		
WORKING POINT	NORTHING	EASTING
1	1494499.3652	573668.3736
2	1494560.9601	573788.2314
3	1494695.1847	573979.2989
4	1494785.1651	574087.4341

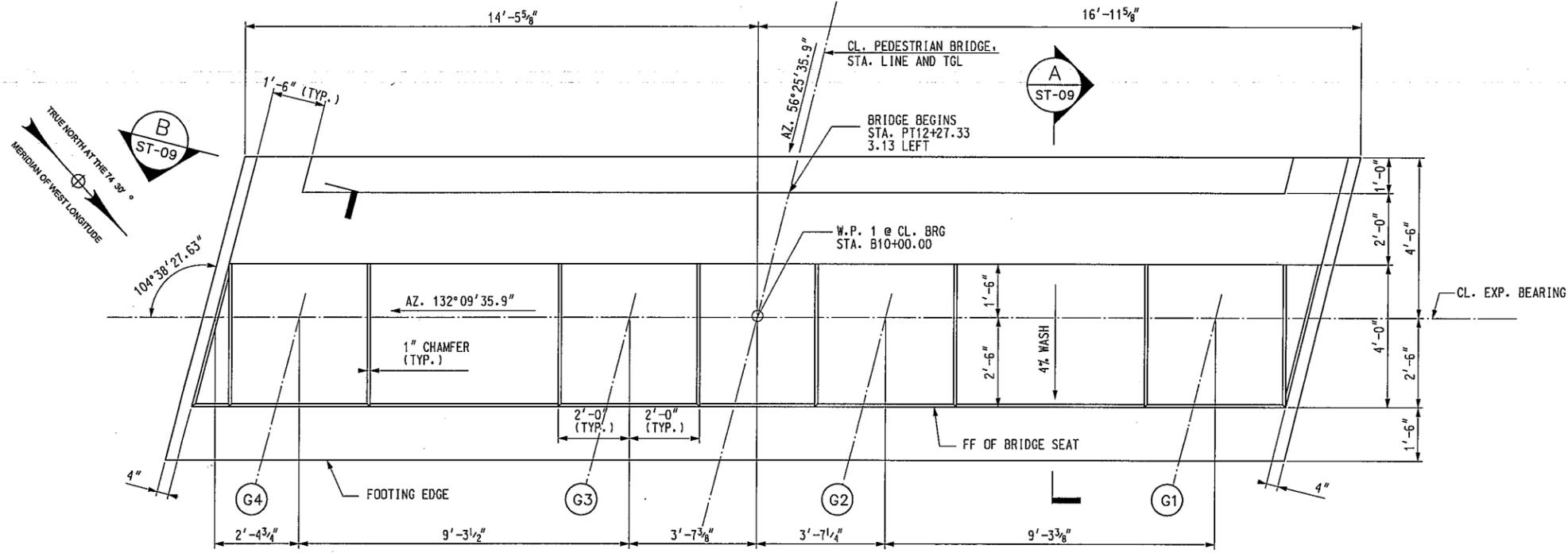
PREPARED BY:
AMANN & WELBY

Engineering and Land Surveying, P.C.
1533 Crescent Road - Canton Park, NY 12026

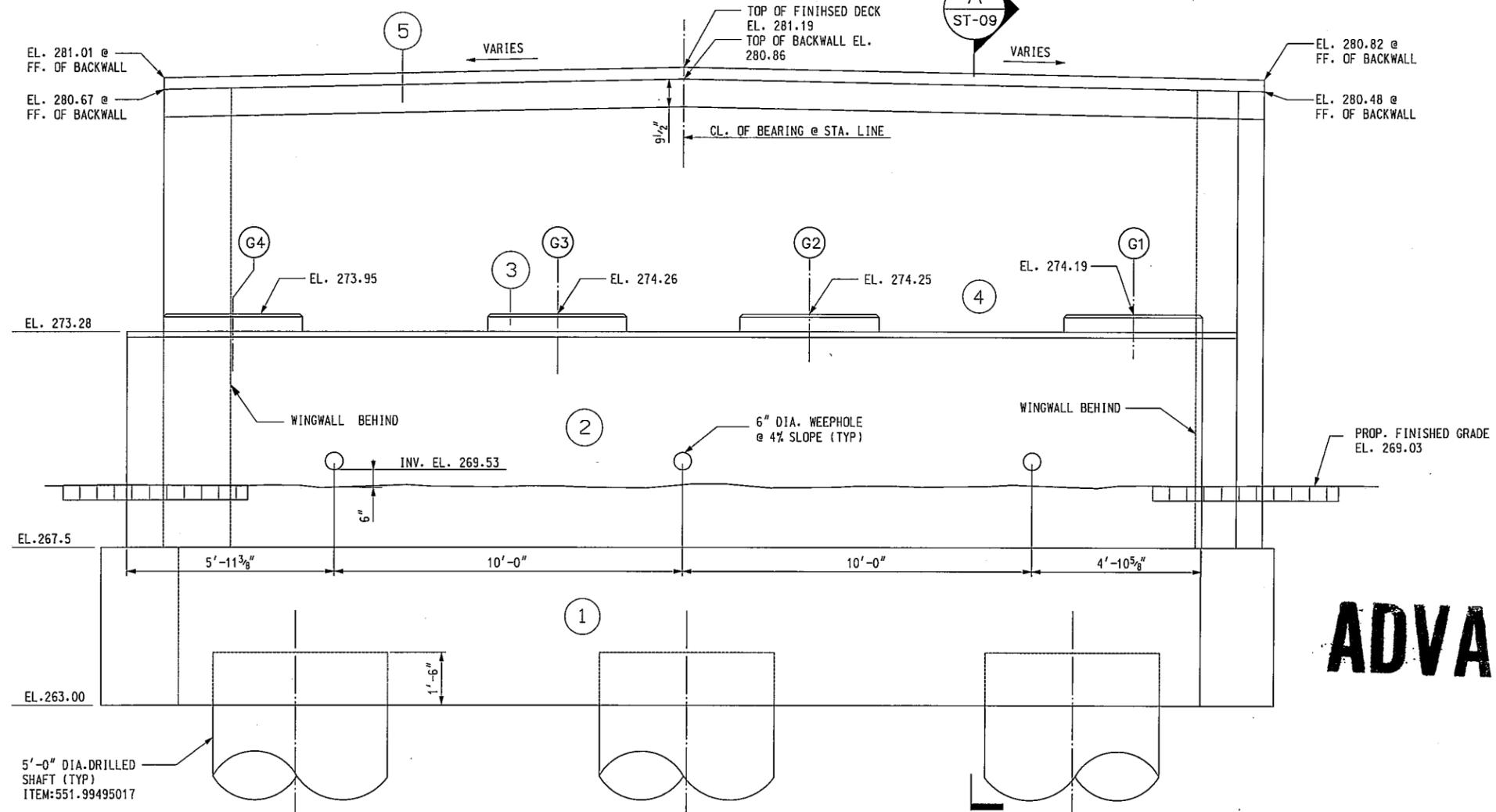
DATE	DESCRIPTION	BY	SYL
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 288 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING WORKING POINT LAYOUT			
CONTRACT NUMBER: A94067		DATE: OCT 01, 2012	
DRAWING NUMBER: ST-05			

ADVANCE COPY

CHECKED BY: _____
 DRAFTED BY: _____
 DESIGNED BY: _____
 IN CHARGE OF: _____



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



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

CONCRETE TABLE		
POUR	ITEM NUMBER	QUANTITY REQUIRED
1	555.09	CY
2	555.09	CY
3	555.09	CY
4	555.09	CY
5	555.09	CY

- REFERENCE:
- WORKING POINT LAYOUT ST-05
 - SOUTH ABUTMENT REINFORCEMENT PLAN ST-07
 - SOUTH ABUTMENT DRILLED SHAFT LAYOUT AND FOOTING REINFORCEMENT PLAN ST-08
 - SOUTH ABUTMENT SECTION AND DETAILS ST-09

LEGEND:
① = POUR NUMBER

- NOTES:
- FOR PILE LAYOUT AND DETAIL, SEE DWG. ST-07.
 - FOR REINFORCEMENT DETAILS, SEE DWG. ST-07.
 - FOR KEYWAY DETAILS, SEE DWG. ST-09.
 - FOR CHAMFER DETAIL SEE DWG ST-09.
 - FOR ANCHOR BOLTS LAYOUT, SEE DWG. ST-09.

PREPARED BY:
AMMONS WHELAN

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

DATE	DESCRIPTION	BY	SYL

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
280 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
NEW PEDESTRIAN BRIDGE OVER THE HOHAWK RIVER

LOCATION OF PROJECT
MONTGOMERY COUNTY CITY OF AMSTERDAM

TITLE OF DRAWING
SOUTH ABUTMENT PLAN AND ELEVATION

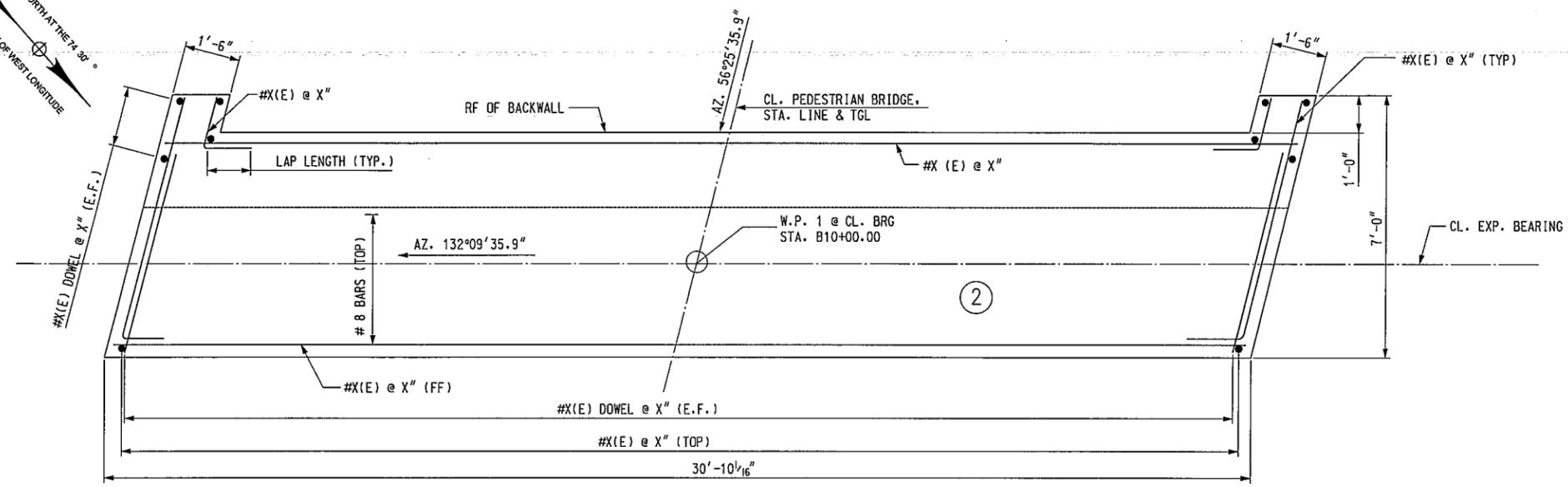
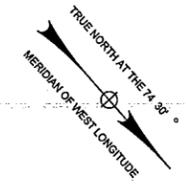
CONTRACT NUMBER:
A94067

DATE:
OCT 01, 2012

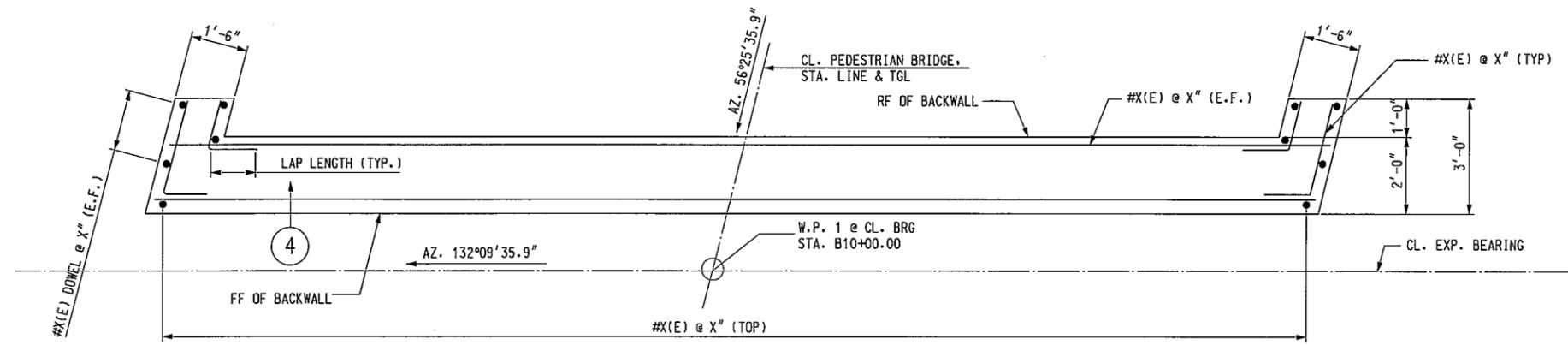
DRAWING NUMBER:
ST-06

ADVANCE COPY

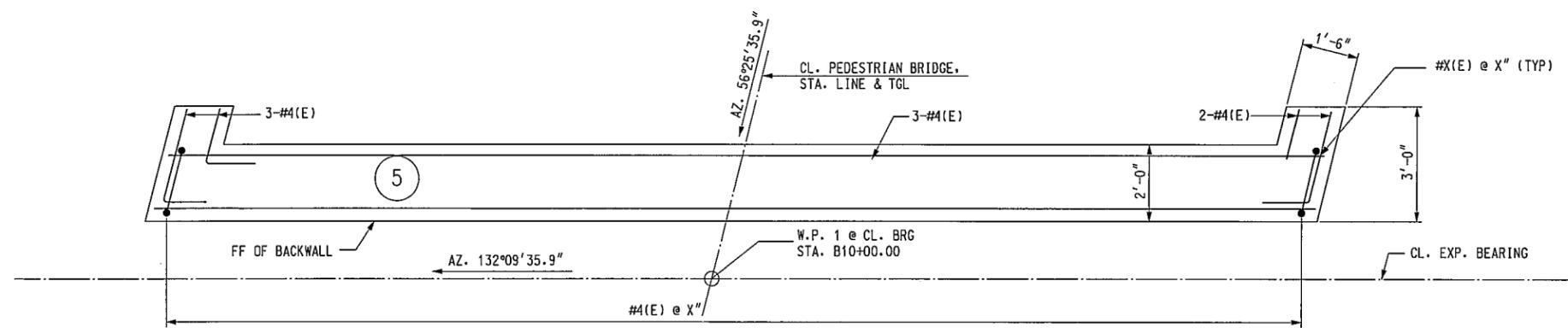
CHECKED BY: _____
 DRAFTED BY: _____
 DESIGNED BY: _____
 IN CHARGE OF: _____



STEM REINFORCEMENT PLAN
SCALE: 1/2" = 1'-0"



BACKWALL REINFORCEMENT PLAN
SCALE: 1/2" = 1'-0"



HEADER REINFORCEMENT PLAN
SCALE: 1/2" = 1'-0"

ADVANCE COPY

- NOTES:
- COVER FOR STEEL REINFORCEMENT SHALL BE 2" UNLESS NOTED OTHERWISE

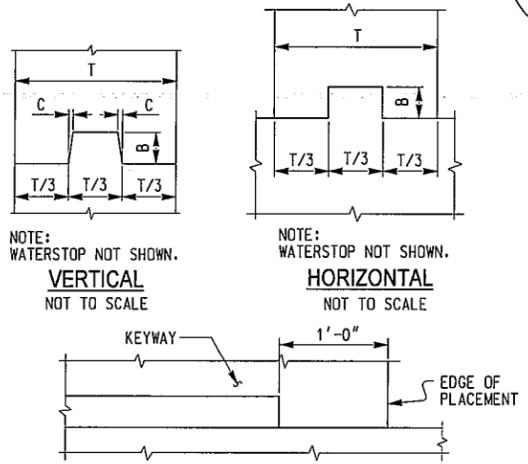
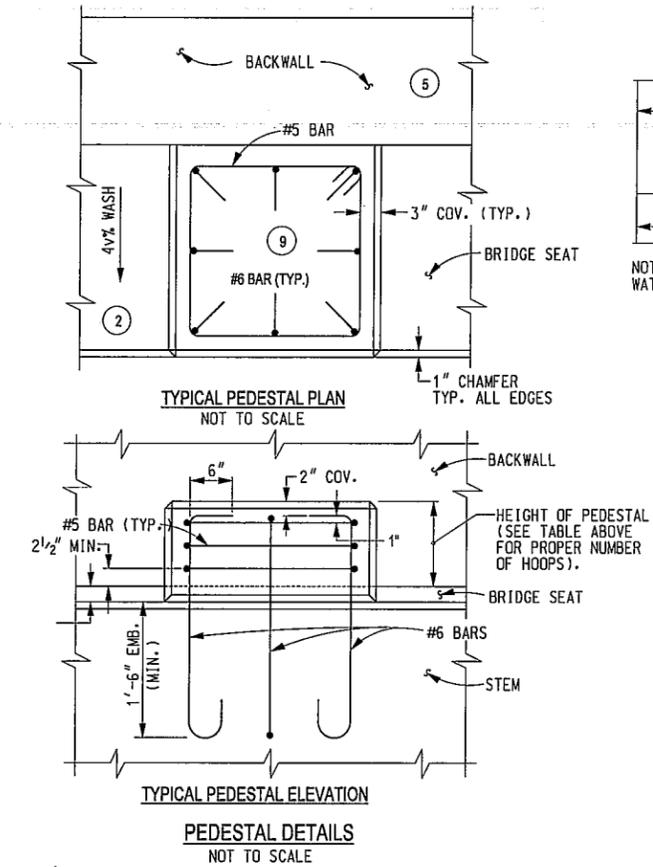
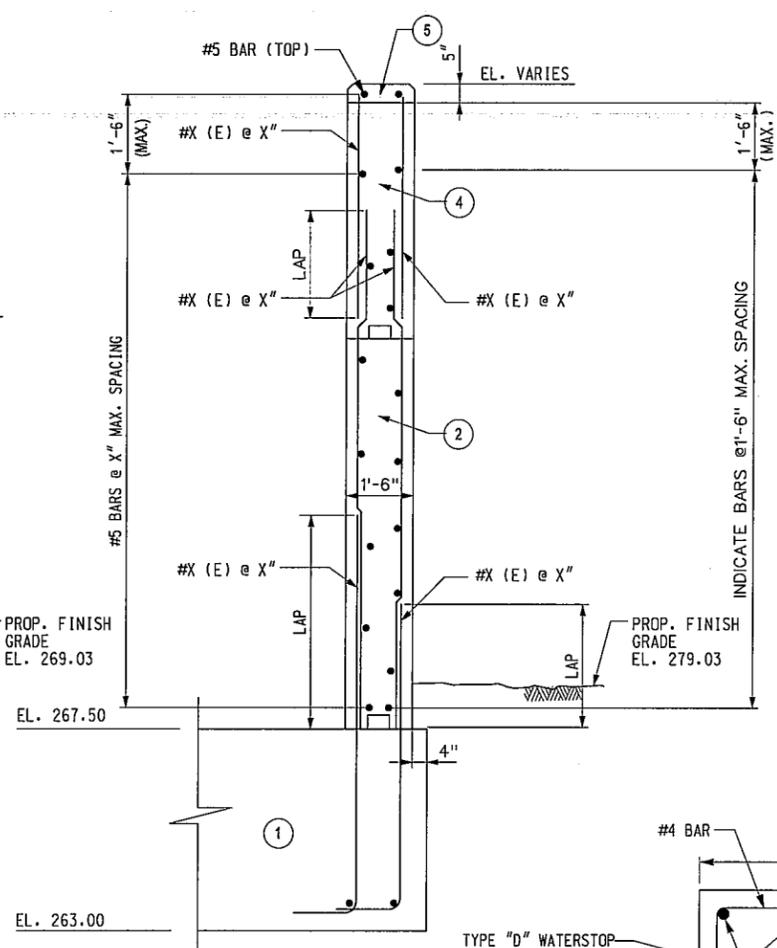
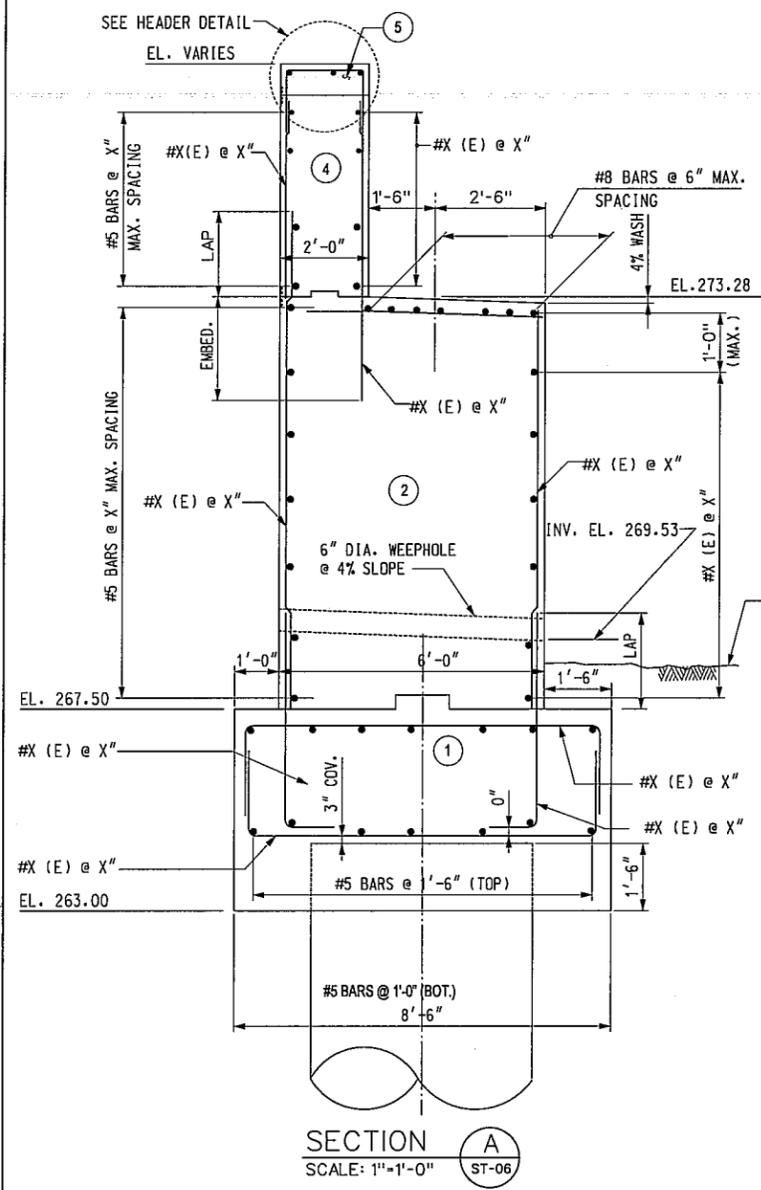
- REFERENCE:
- XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX

- LEGEND:
- ① = POUR NUMBER
 - (E) = EPOXY-COATED

CHECKED BY: DRAFTED BY: DESIGNED BY: IN CHARGE OF:

PREPARED BY: AMMAN & WHITNEY			
Engineering and Land Surveying, P.C. 1333 Crescent Road - Clifton Park, NY 12005			
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING SOUTH ABUTMENT REINFORCING PLAN			
CONTRACT NUMBER: A94067		DATE: OCT 01, 2012	
DRAWING NUMBER: ST-08			

DESIGNED BY: _____
 DRAFTED BY: _____
 CHECKED BY: _____
 IN CHARGE OF: _____

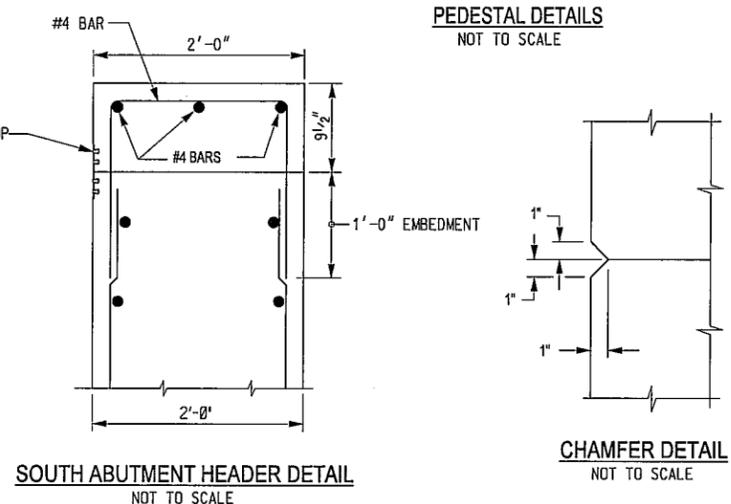


CONSTRUCTION AND CONTRACTION JOINTS

C	B	T/3
3/16"	1 1/2"	0 TO 6"
3/8"	3 1/2"	6" TO 10"
3/4"	5 1/2"	10" AND OVER

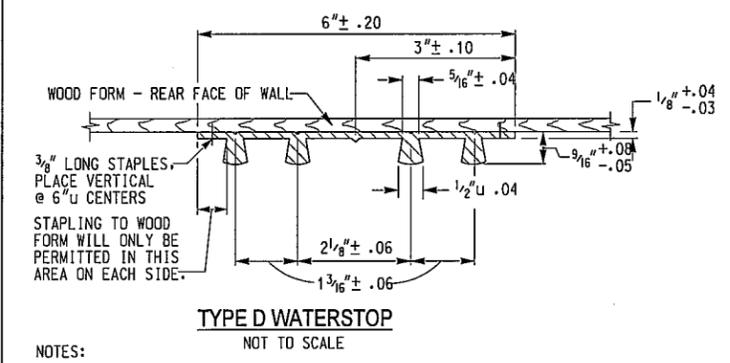
EXPANSION JOINTS

C	B	T/3
3/8"	3 1/2"	0 TO 10"
3/4"	5 1/2"	10" AND OVER

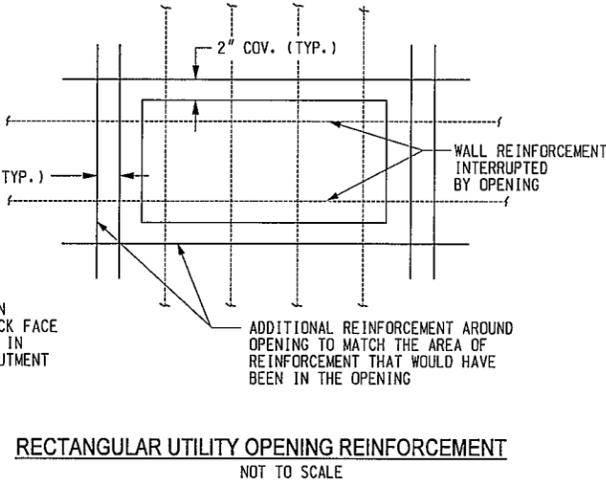
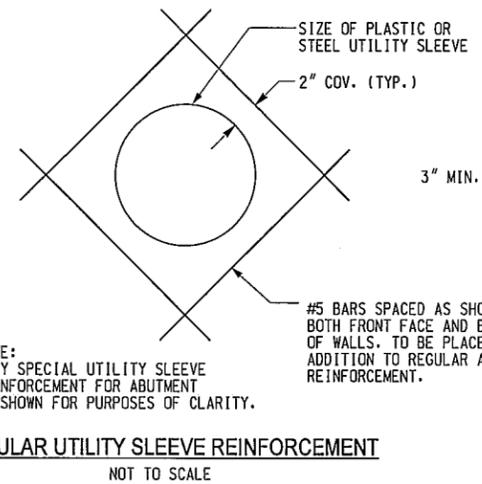
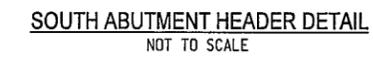
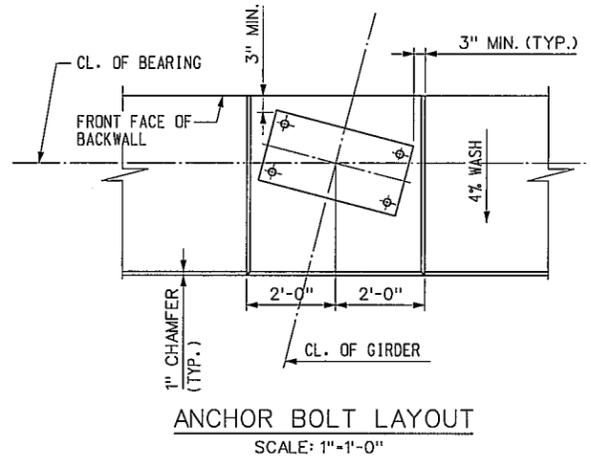


KEYWAY DETAILS
NOT TO SCALE

PEDESTAL HEIGHT	NUMBER OF HOOPS
6" TO 8"	1
8" TO 11"	2
11" TO 14"	3
14" TO 17"	4
17" TO 20"	5



- NOTES:**
- HOLES MUST NOT BE MADE IN WATERSTOP FOR ANY PURPOSE EXCEPT AS REQUIRED FOR STAPLING TO FORMS.
 - TYPE D WATERSTOP SHALL BE LIGHT GRAY IN COLOR.
 - THE COST OF FURNISHING AND PLACING WATERSTOPS SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE CONCRETE ITEMS.
 - WATERSTOP SHALL BE SHIPPED IN STRAIGHT SECTIONS HAVING A MINIMUM LENGTH OF 10 FEET UNLESS SHORTER LENGTHS ARE REQUIRED.

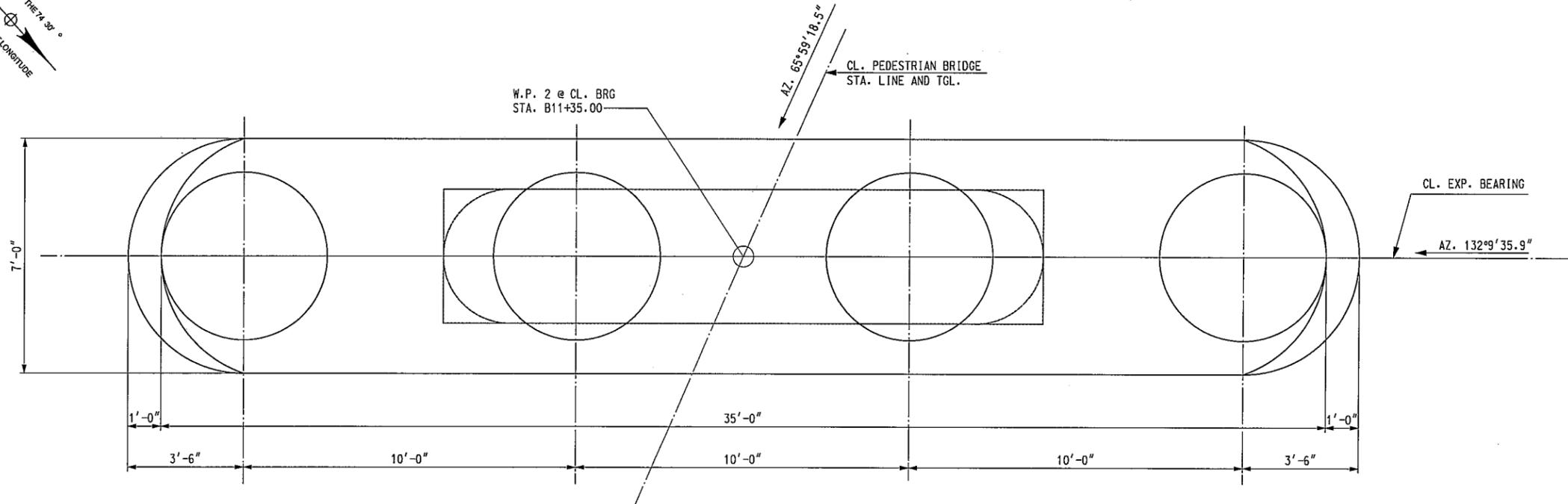
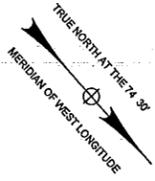


PREPARED BY:
AMMONS WELBY

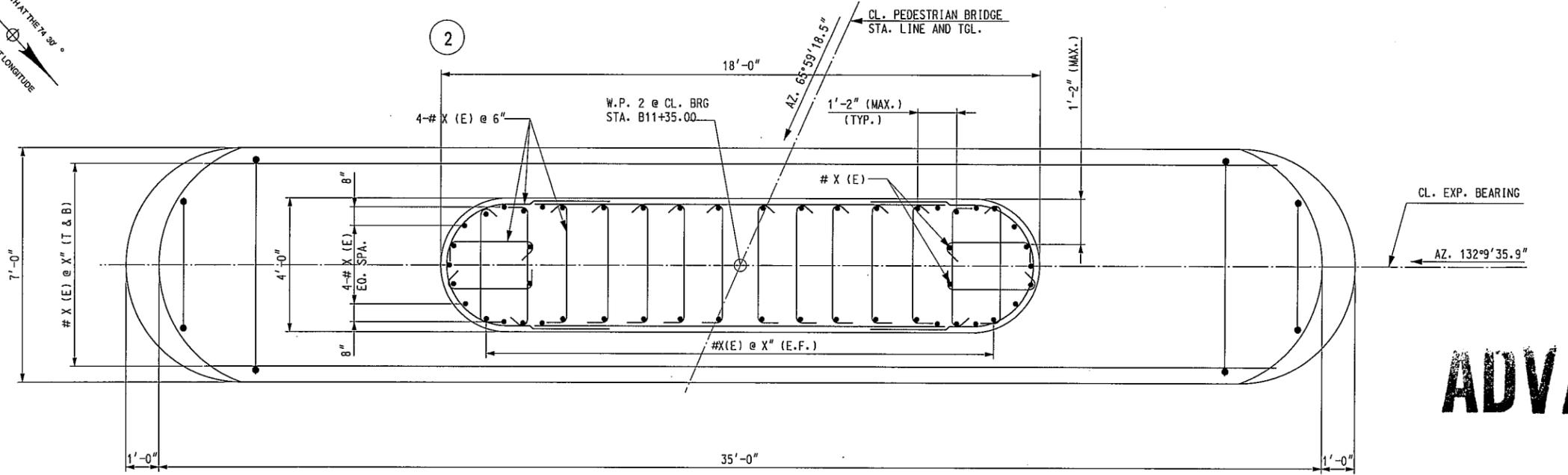
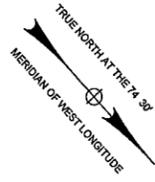
Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12020

DATE	DESCRIPTION	BY	SYN.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 280 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING SOUTH ABUTMENT SECTION AND DETAILS			
		CONTRACT NUMBER: A94067	
		DATE: OCT 01, 2012	
		DRAWING NUMBER: ST-09	

ADVANCE COPY



SOUTH PIER FOUNDATION PLAN
SCALE: 1/2" = 1'-0"



FOOTING REINFORCEMENT PLAN
SCALE: 1/2" = 1'-0"

PILE TABLE	
POUR NO.	LENGTH BELOW CUT-OFF
1	
2	
3	
4	

REFERENCES:

1. SOUTH ABUTMENT DRILLED SHAFT LAYOUT AND FOOTING REINFORCEMENT PLAN ST-07
2. SOUTH PIER PLAN AND ELEVATION ST-10

LEGEND:

1 = POUR NUMBER

CHECKED BY: DRAFTED BY: DESIGNED BY: IN CHARGE OF:

PREPARED BY: AMMON WILKEY

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

DATE	DESCRIPTION	BY	SYL

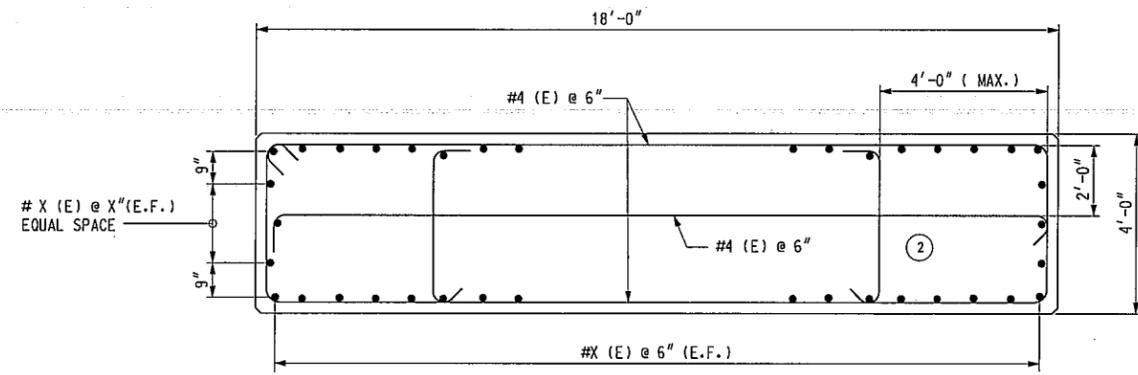
REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

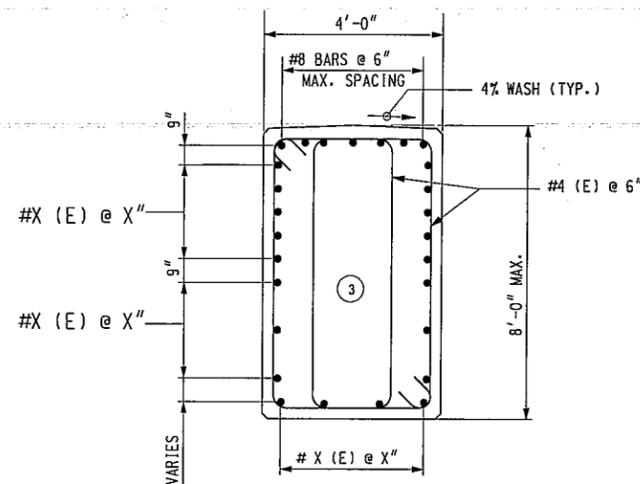
TITLE OF DRAWING: SOUTH DRILLED SHAFT LAYOUT AND FOOTING REINFORCEMENT PLAN

CONTRACT NUMBER: A94067
DATE: OCT 01, 2012
DRAWING NUMBER: ST-11

ADVANCE COPY



SECTION C
SCALE: 1/2" = 1'-0"
ST-10 & ST-13



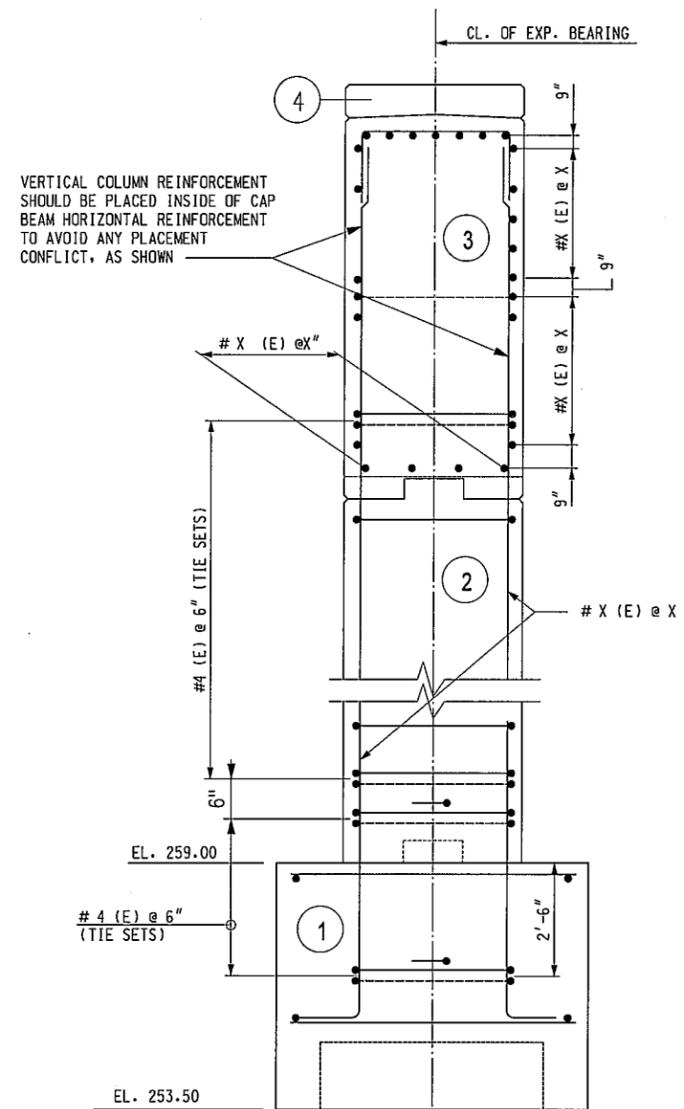
SECTION B
SCALE: 1/2" = 1'-0"
ST-10 & ST-13

REFERENCE:
1. SOUTH PIER PLAN AND ELEVATION ST-10

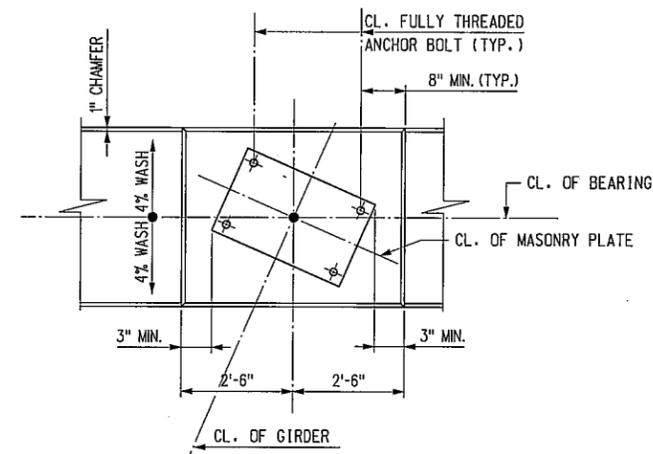
CONCRETE TABLE		
POUR	ITEM NUMBER	QUANTITY REQUIRED
1	555.09	CY
2	555.09	CY
3	555.09	CY
4	555.09	CY

LEGEND:
① = POUR NUMBER
(E) = EPOXY COATED

NOTE:
1. COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 3" UNLESS OTHERWISE NOTED.
2. FOR PIER NOSE DETAIL, SEE DWG. ST-14.



SECTION A
SCALE: 1/2" = 1'-0"
ST-10 & ST-13



ANCHOR BOLT LAYOUT
SCALE: 1" = 1'-0"

5'-0" DIA. DRILLED SHAFT (TYP.)
ITEM: 551.99495017

ADVANCE COPY

PREPARED BY:
AMANN WILKEY

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

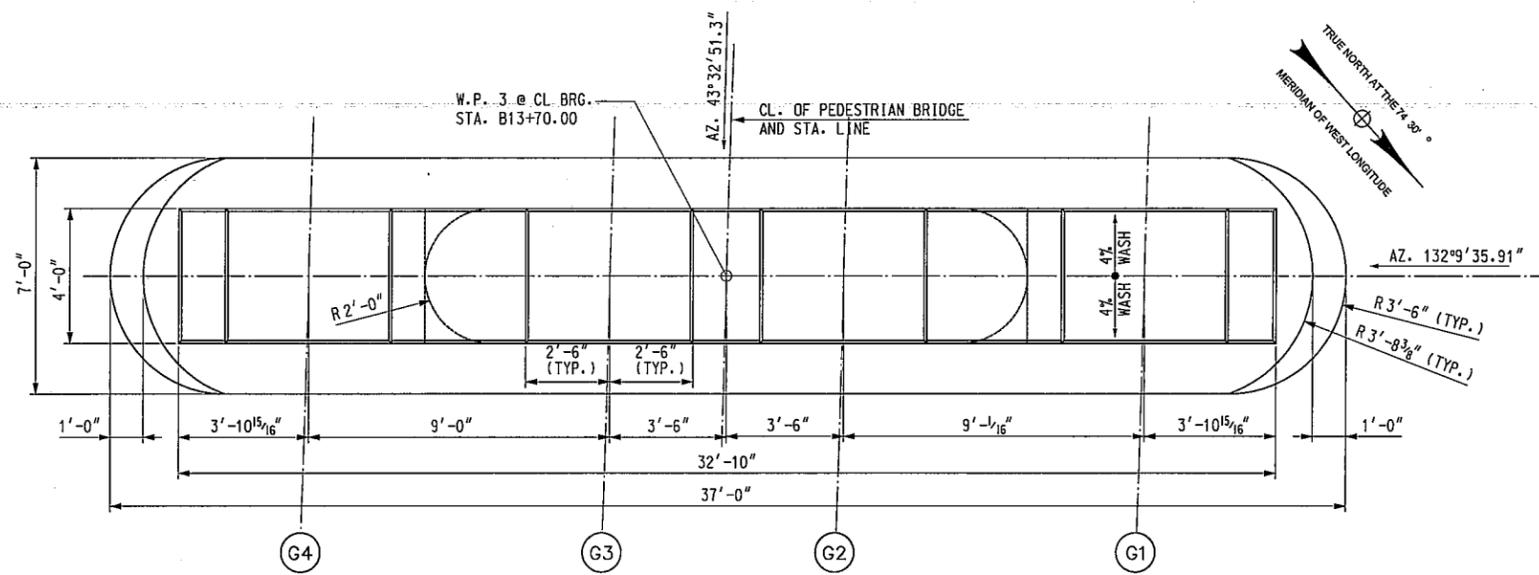
DATE	DESCRIPTION	BY	SYM.
REVISIONS			

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
280 SOUTHERN BLVD., ALBANY, N.Y. 12209

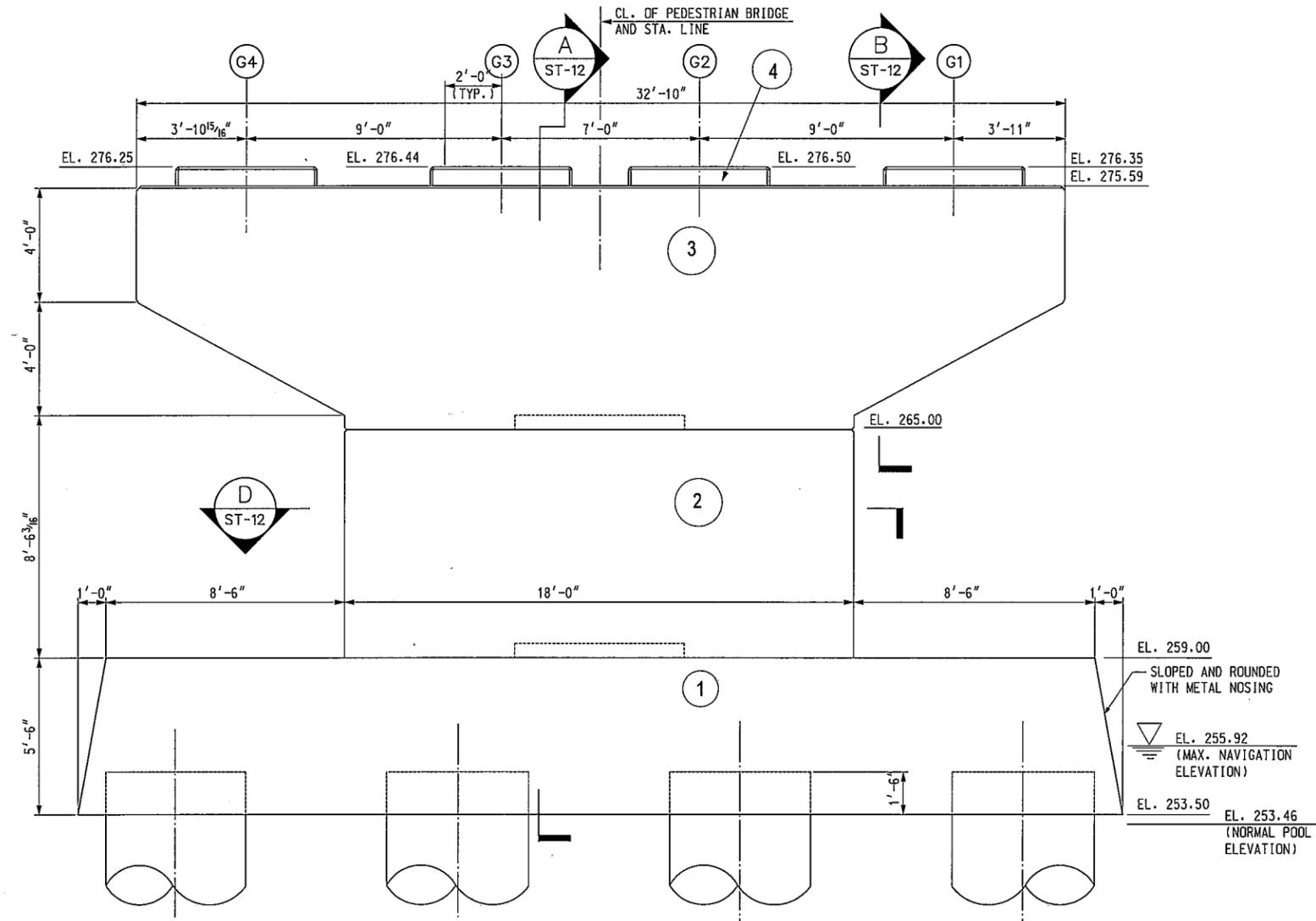
TITLE OF PROJECT: NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER
LOCATION OF PROJECT: MONTGOMERY COUNTY, CITY OF AMSTERDAM
TITLE OF DRAWING: SOUTH PIER REINFORCEMENT SECTION AND DETAILS

CONTRACT NUMBER: A94067
DATE: OCT 01, 2012
DRAWING NUMBER: ST-12

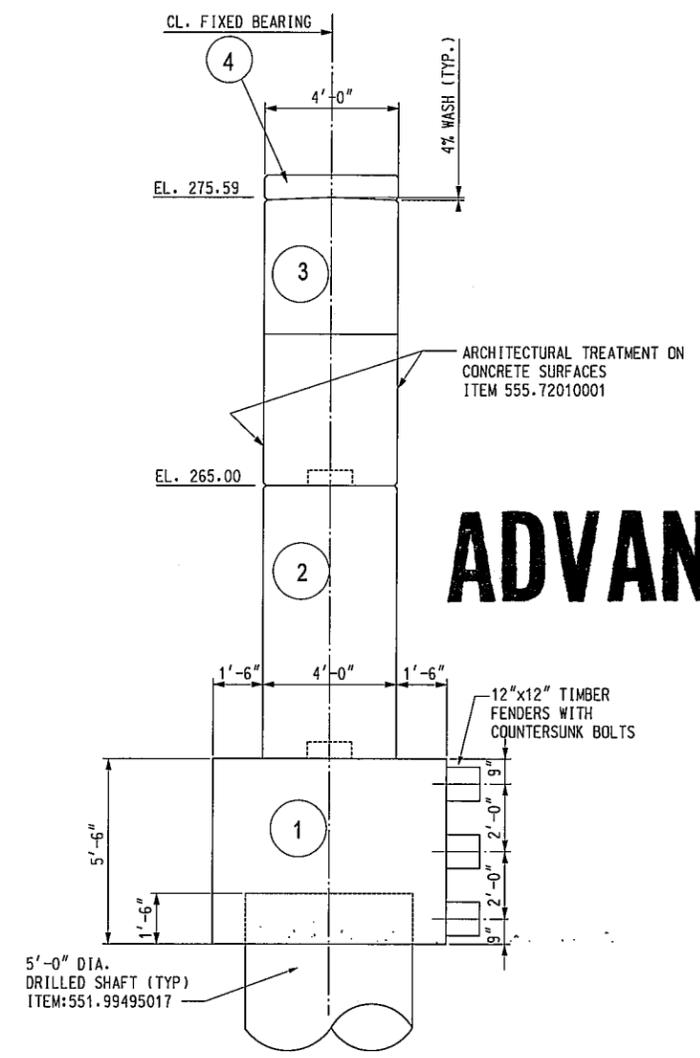
DESIGNED BY: DRAFTED BY: CHECKED BY: IN CHARGE OF:



NORTH PIER PLAN
SCALE: 3/8" = 1'-0"



NORTH PIER ELEVATION
SCALE: 3/8" = 1'-0"



NORTH PIER END ELEVATION
SCALE: 3/8" = 1'-0"

- REFERENCE:
1. WORKING POINT LAYOUT ST-05
 2. SOUTH PIER DRILLED SHAFT LAYOUT AND FOOTING REINFORCEMENT PLAN ST-11
 3. SOUTH PIER REINFORCEMENT SECTIONS AND DETAILS. ST-12
 4. NORTH PIER DRILLED SHAFT AND DETAILS ST-14

CONCRETE TABLE		
POUR	ITEM NUMBER	QUANTITY REQUIRED
1	555.09	CY
2	555.09	CY
3	555.09	CY
4	555.09	CY

- LEGEND:
- 1 = POUR NUMBER
 - (E) = EPOXY COATED

- NOTE:
1. COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 3" UNLESS U.N.O. ALL OTHER SHALL BE 2" U.N.O.
 2. FOR FOOTING REINFORCEMENT, SEE REF. 2

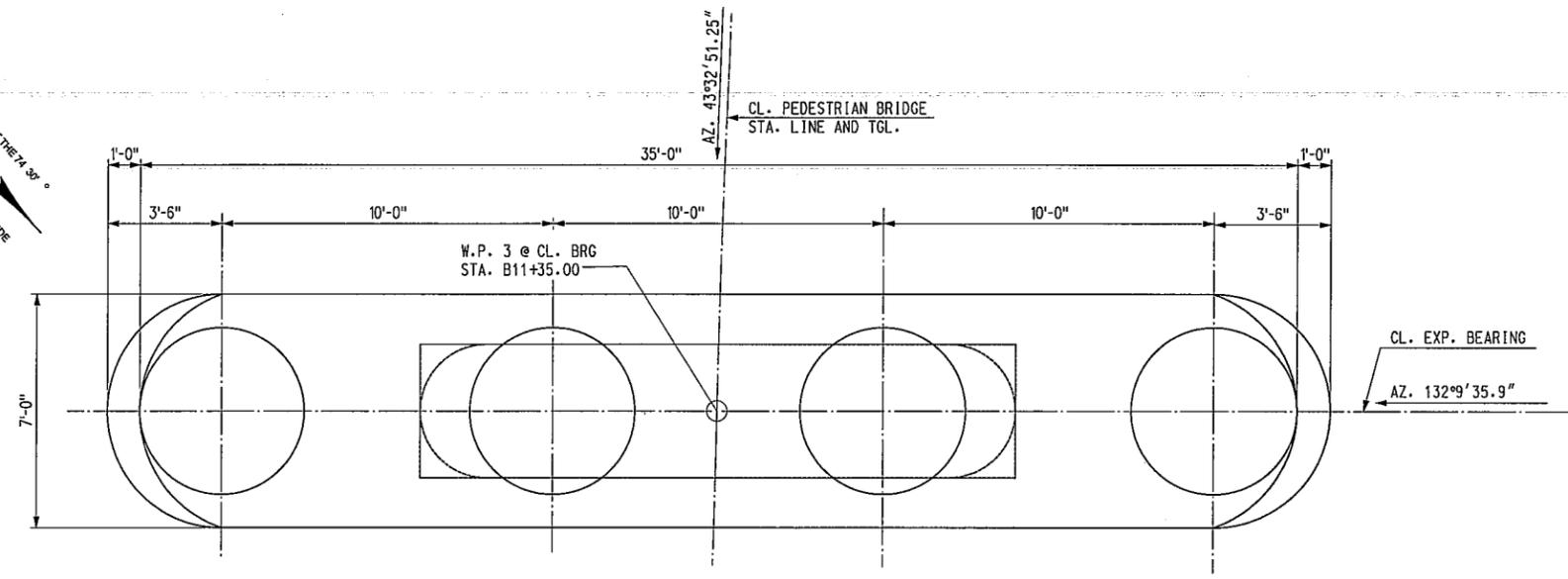
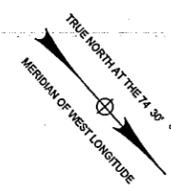
PREPARED BY: AMMER WITTEBY

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12025

ADVANCE COPY

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING NORTH PIER PLAN AND ELEVATION			
CONTRACT NUMBER: A94067		DATE: OCT 01, 2012	
DRAWING NUMBER: ST-13			

CHECKED BY: _____
 DRAFTED BY: _____
 DESIGNED BY: _____
 IN CHARGE OF: _____



NORTH PIER FOUNDATION PLAN
SCALE: 3/8" = 1'-0"

PILE TABLE

POUR NO.	LENGTH BELOW CUT-OFF
1	
2	
3	
4	

REFERENCES:

1. SOUTH ABUTMENT DRILLED SHAFT LAYOUT AND FOOTING REINFORCEMENT PLAN ST-07
2. SOUTH PIER PLAN AND ELEVATION ST-10
3. SOUTH PIER REINFORCEMENT SECTION AND DETAILS ST-12

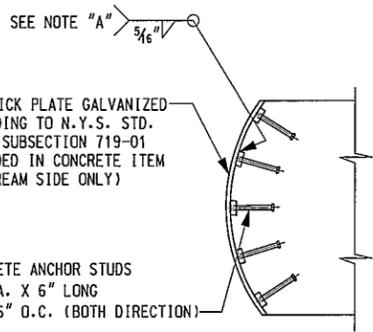
LEGEND:

① = POUR NUMBER

NOTE:

1. FOR FOOTING REINFORCEMENT, SEE ST-11.
2. FOR PILE DETAILS, SEE ST-07

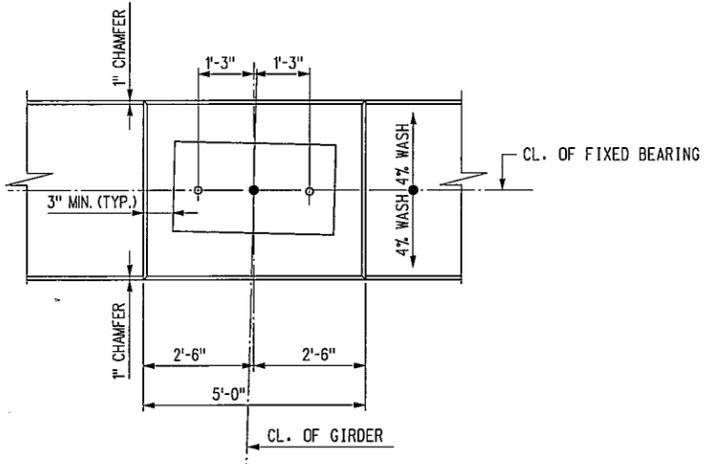
CHECKED BY: DRAFTED BY: DESIGNED BY: IN CHARGE OF:



NOTES FOR PIER NOSE:

1. DUE TO THE POSSIBILITY OF REINFORCEMENT INTERFERENCE WITH ANCHOR STUDS, FOR CONSTRUCTABILITY THE OPTIONS ARE TO WELD A563 GRADE A HEX NUTS ON ONE LEG OF ANGLE AND USE THREADED ANCHOR STUDS OR FIELD WELD ANCHOR STUDS TO ANGLE
2. ALL CONCRETE ANCHOR STUDS WHICH ARE ATTACHED TO THE VARIOUS STEEL DETAILS SHALL MEET THE REQUIREMENTS LISTED IN N.Y.S. STD. SPEC. SUBSECTION 709-05, STUD SHEAR CONNECTORS. PAYMENT FOR FURNISHING AND PLACING THE CONCRETE ANCHORS WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE ITEM TO WHICH THE ANCHORS ARE ATTACHED.
3. PIER NOSE PROTECTION SHOULD BE EXTENDED FROM TOP OF FOOTING TO EL. 253.50

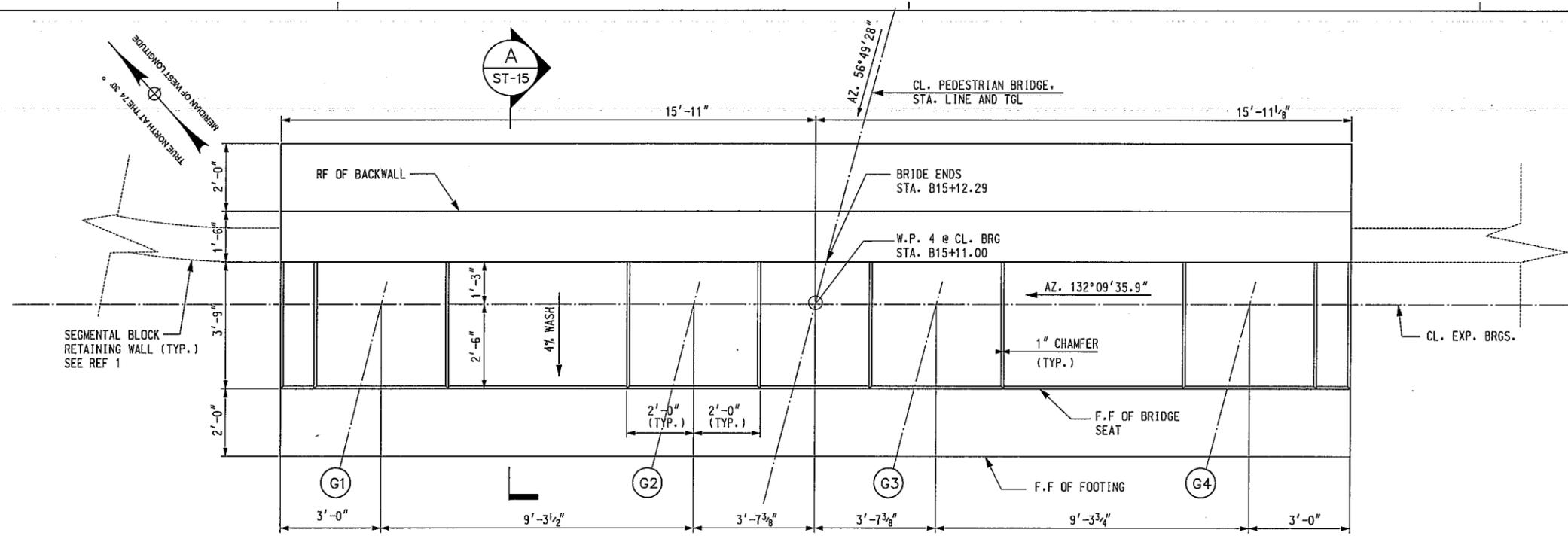
PIER NOSE DETAIL
NOT TO SCALE



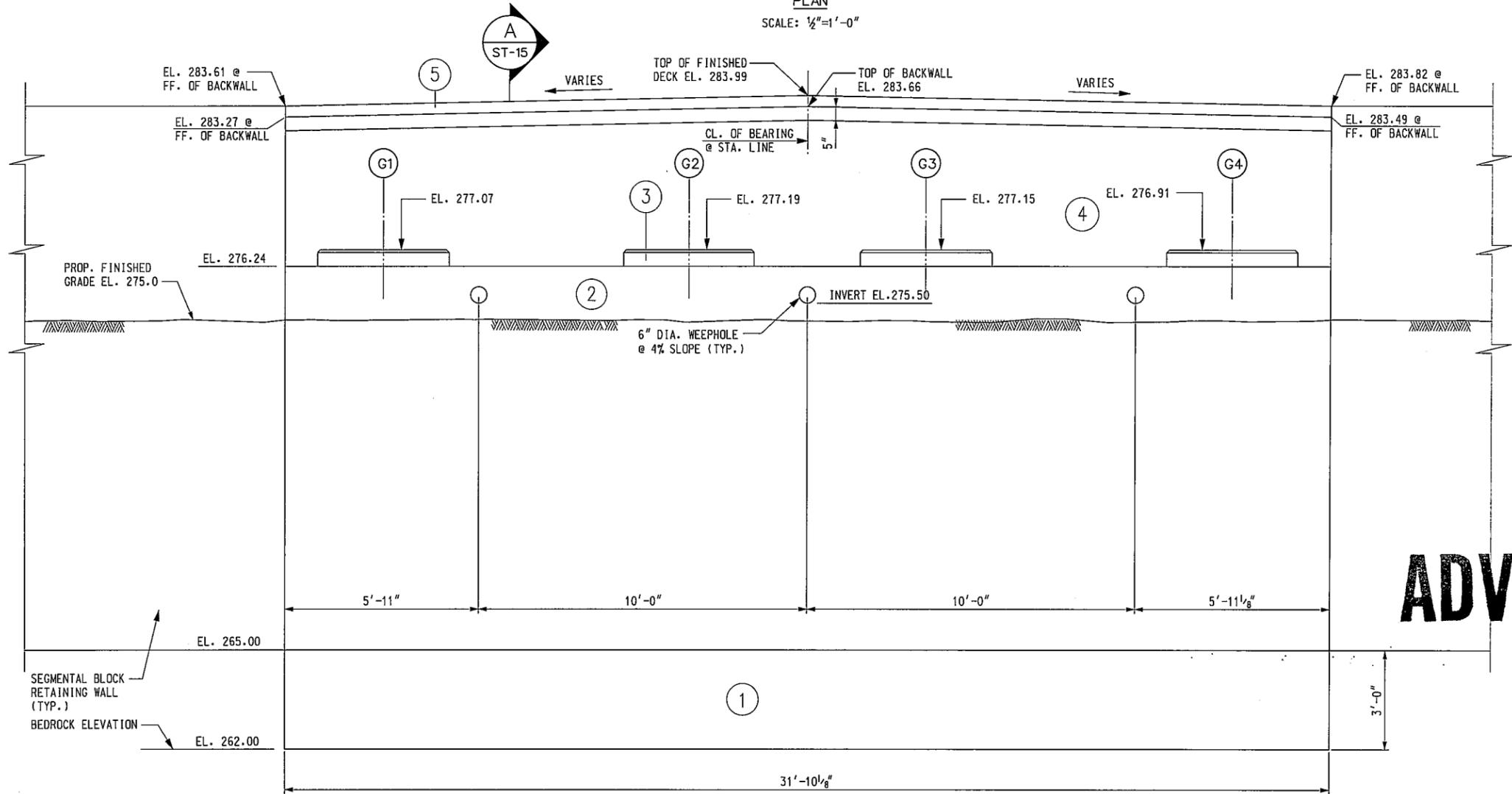
ANCHOR BOLT LAYOUT
SCALE: 1" = 1'-0"

ADVANCE COPY

PREPARED BY: AMMAN WILSON			
Engineering and Land Surveying, P.C. 1533 Crescent Road - Clifton Park, NY 12065			
DATE	DESCRIPTION	BY	SYN.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 288 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING NORTH PIER DRILLED SHAFT LAYOUT AND DETAILS			
NEW YORK STATE THRUWAY AUTHORITY		CONTRACT NUMBER: A94067	
		DATE: OCT 01, 2012	
		DRAWING NUMBER: ST-14	



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



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

CONCRETE TABLE		
POUR	ITEM NUMBER	QUANTITY REQUIRED
1	555.09	CY
2	555.09	CY
3	555.09	CY
4	555.09	CY
5	555.09	CY

- REFERENCE:
- 1. WORKING POINT LAYOUT ST-05
 - 2. NORTH ABUTMENT REINFORCEMENT PLAN ST-16
 - 3. NORTH ABUTMENT SECTIONS AND DETAILS ST-17

LEGEND:
① = POUR NUMBER

ADVANCE COPY

PREPARED BY:
COMMONSWILNEY

Engineering and Land Surveying, P.C.
1533 Crescent Road - Colon Park, NY 12065

DATE	DESCRIPTION	BY	SYM.
REVISIONS			

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
280 SOUTH SENeca ST., ALBANY, N.Y. 12209

NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER

LOCATION OF PROJECT
MONTGOMERY COUNTY
CITY OF AMSTERDAM

TITLE OF DRAWING
NORTH ABUTMENT
PLAN AND ELEVATION

CONTRACT NUMBER:
A94067

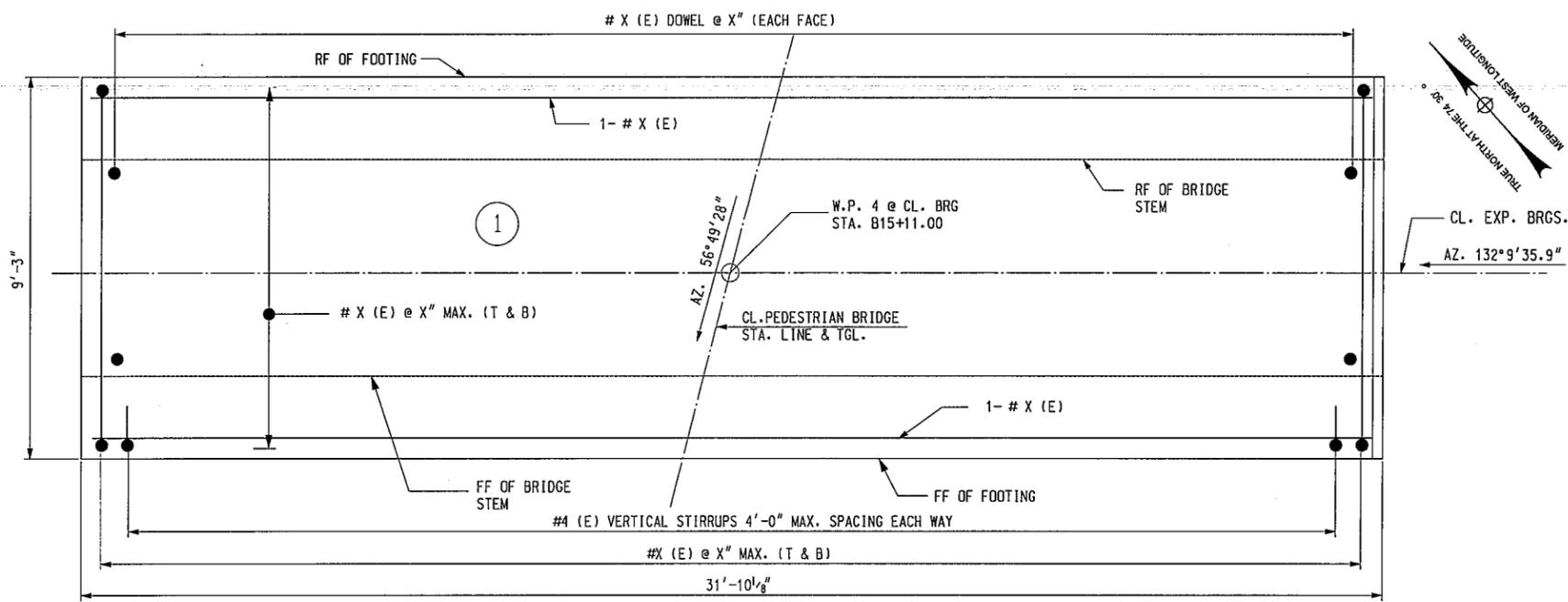
DATE:
OCT 01, 2012

DRAWING NUMBER:
ST-15

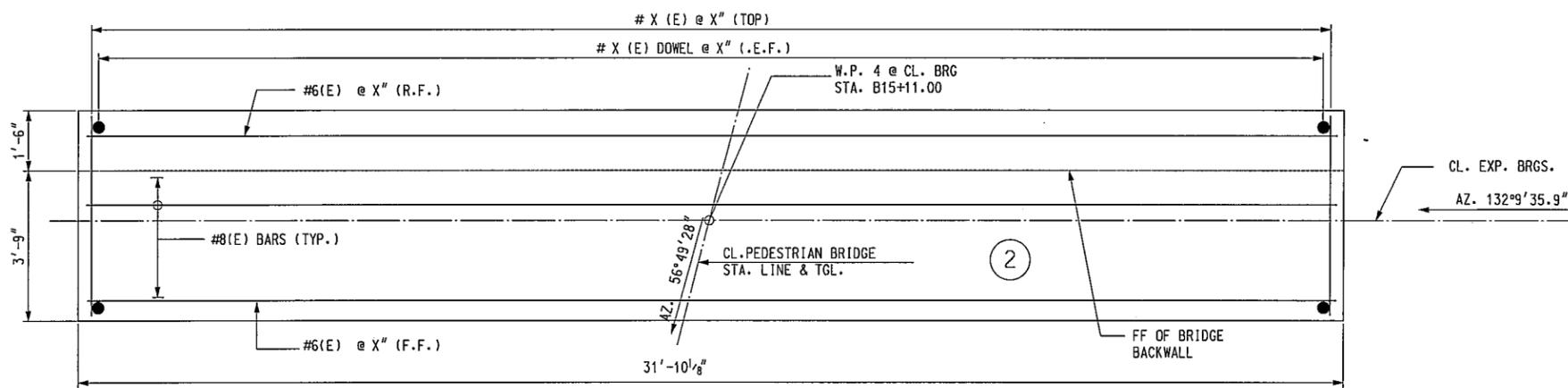
NEW YORK STATE THRUWAY AUTHORITY

CHECKED BY:
DRAFTED BY:
DESIGNED BY:
IN CHARGE OF:

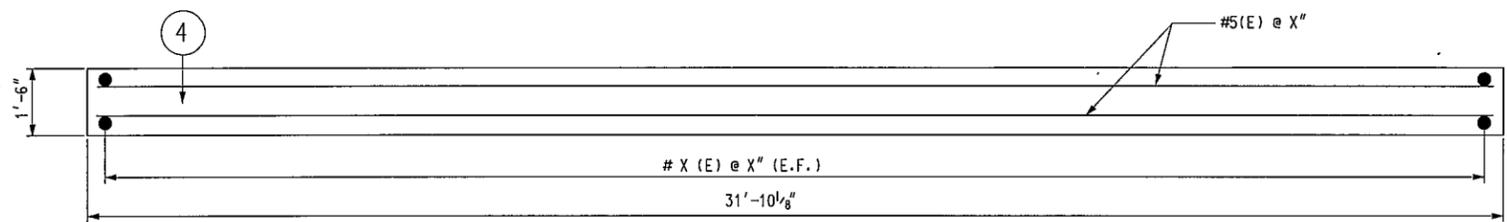
CHECKED BY: _____
 DRAFTED BY: _____
 DESIGNED BY: _____
 IN CHARGE OF: _____



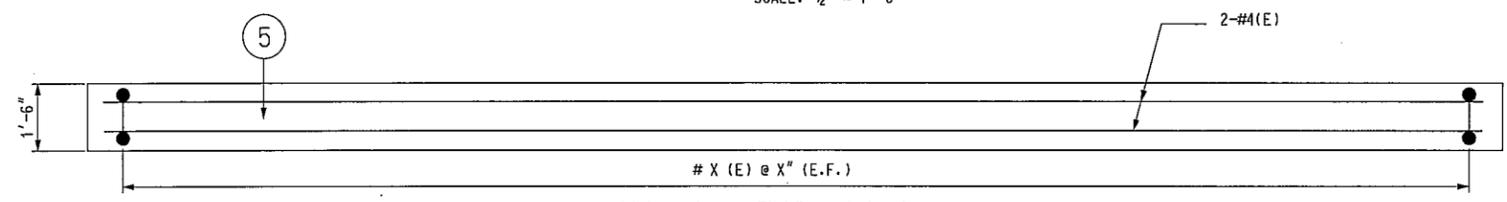
FOOTING REINFORCEMENT PLAN
SCALE: 1/2" = 1'-0"



STEM REINFORCEMENT PLAN
SCALE: 1/2" = 1'-0"



BACK WALL REINFORCEMENT PLAN
SCALE: 1/2" = 1'-0"



HEADER REINFORCEMENT PLAN
SCALE: 1/2" = 1'-0"

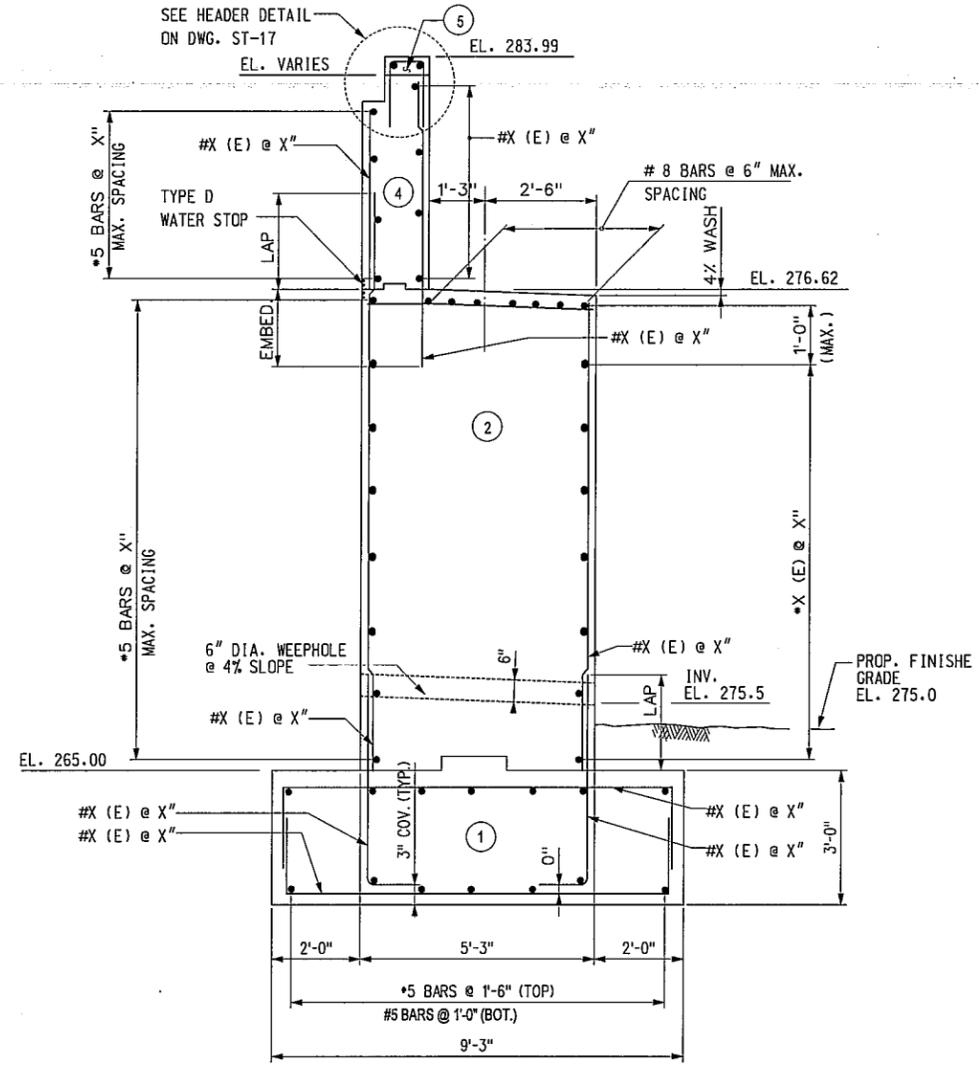
NOTES:
1. COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 3" U.O.N. ALL OTHER COVER SHALL BE 2" U.O.N

LEGEND:
1 = POUR NUMBER
(E) = EPOXY COATED

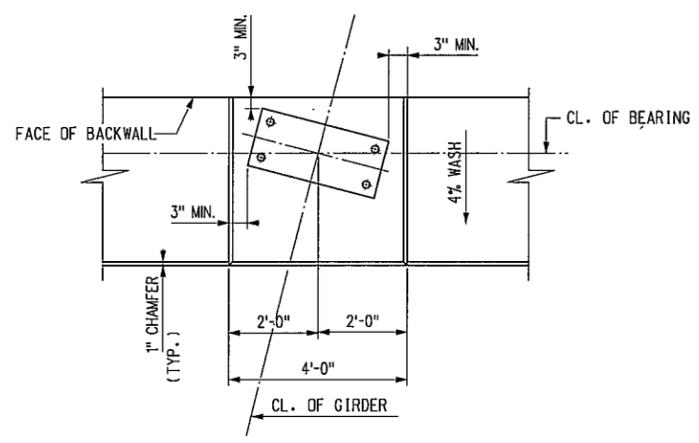
REFERENCE:
1. WORKING POINT LAYOUT ST-05
2. NORTH ABUTMENT SECTIONS AND DETAILS ST-17.
3. NORTH ABUTMENT PLAN AND ELEVATION ST-15

ADVANCE COPY

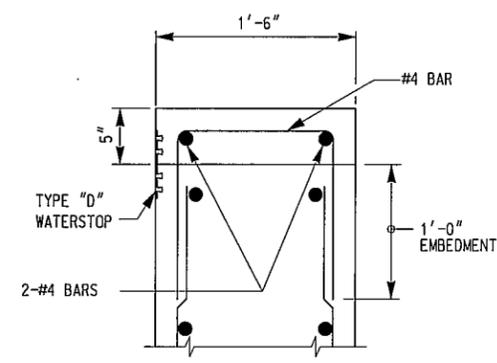
PREPARED BY: AMANN SWINEY			
Engineering and Land Surveying, P.C. 1533 Crescent Road - Clinton Park, NY 12005			
DATE	DESCRIPTION	BY	SYL
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 288 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING NORTH ABUTMENT REINFORCEMENT PLAN			
		CONTRACT NUMBER: A94067	
		DATE: OCT 01, 2012	
		DRAWING NUMBER: ST-16	



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



ANCHOR BOLT LAYOUT
SCALE: 1/2"=1'-0"



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

NOTES:

- COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 3" U.O.N. ALL OTHER COVER SHALL BE 2" U.O.N.

LEGEND:

- 1 = POUR NUMBER
- (E) = EPOXY COATED

REFERENCE:

- NORTH ABUTMENT SECTIONS AND DETAILS ST-17.
- NORTH ABUTMENT PLAN AND ELEVATION ST-15

REFERENCE:

- WORKING POINT LAYOUT ST-05
- NORTH ABUTMENT REINFORCEMENT PLAN ST-16
- NORTH ABUTMENT SECTIONS AND DETAILS ST-17

LEGEND:

- 1 = POUR NUMBER

PREPARED BY: AMANN SWITNEY			
Engineering and Land Surveying, P.C. 1833 Crescent Road - Clifton Park, NY 12085			
DATE	DESCRIPTION	BY	SYN.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 288 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING NORTH ABUTMENT SECTION AND DETAILS			
CONTRACT NUMBER: A94067		DATE: OCT 01, 2012	
DRAWING NUMBER: ST-17			

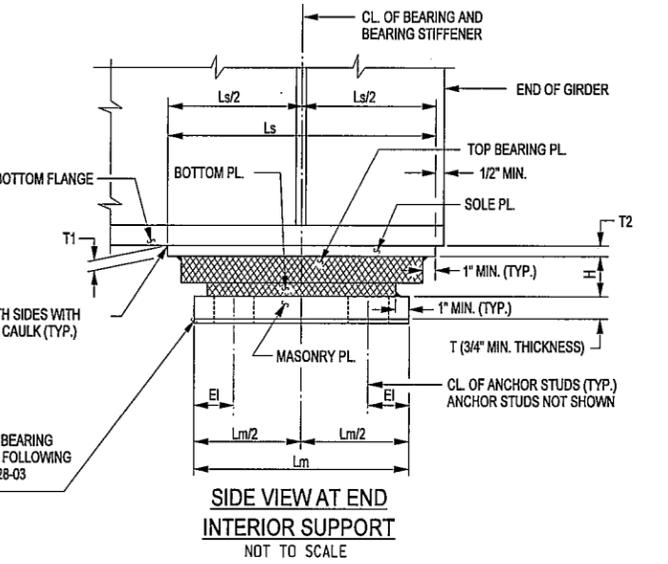
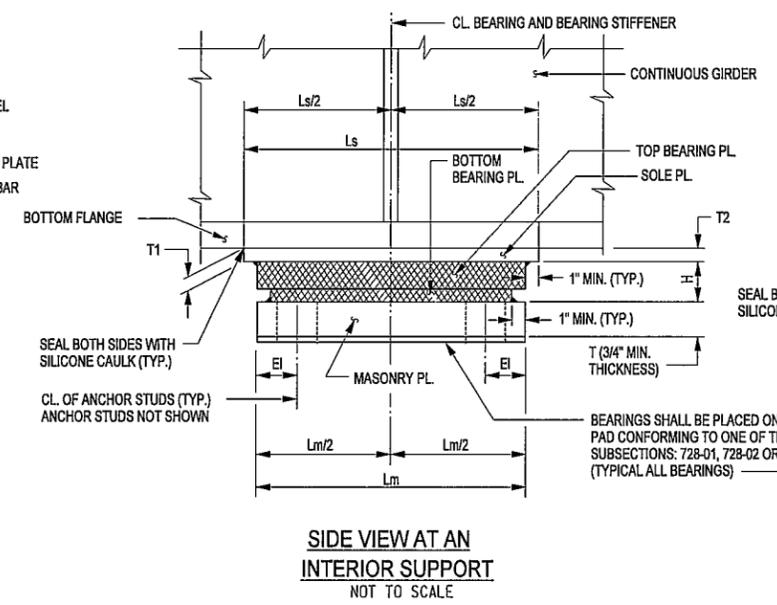
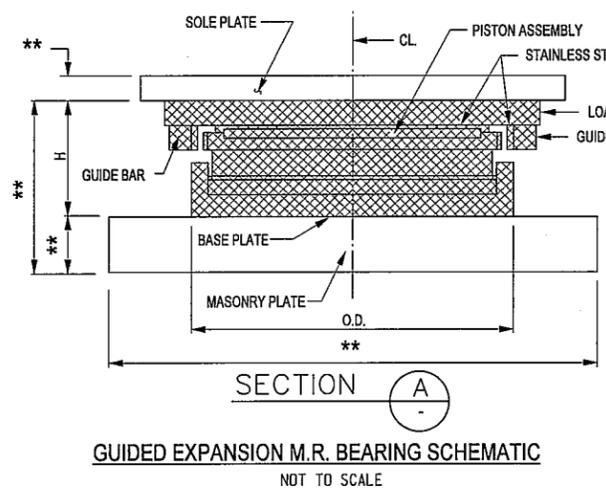
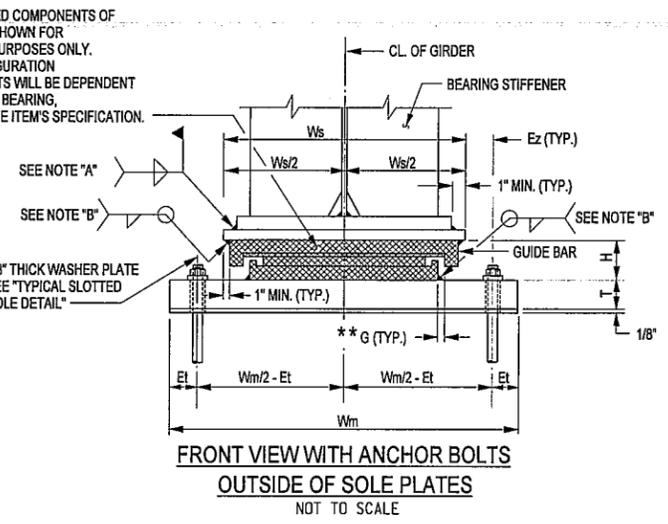
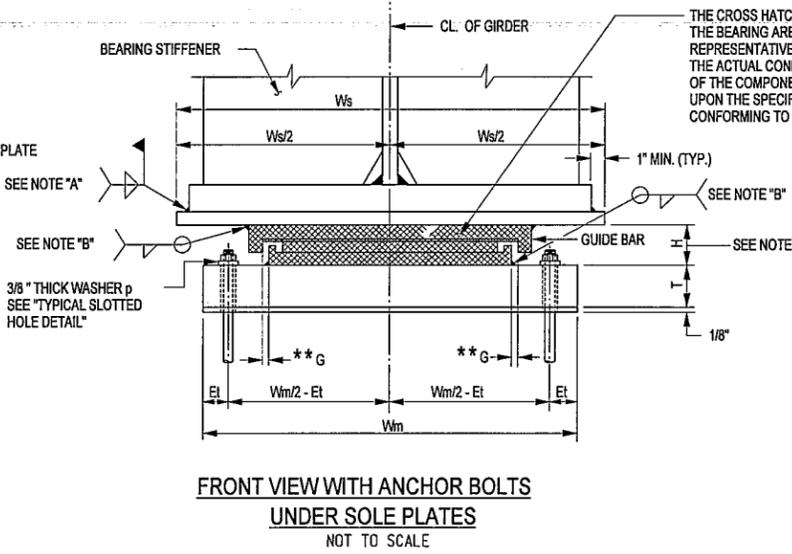
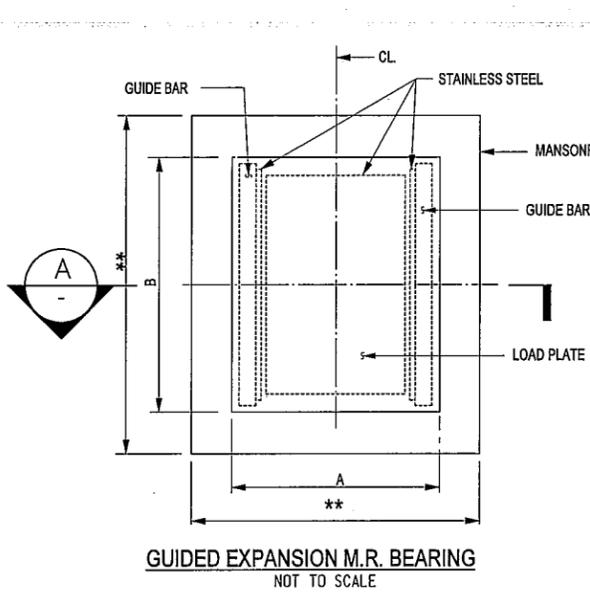
ADVANCE COPY

XXX

NOTES:

THE CONTRACTOR SHALL SUPPLY MULTI ROTATIONAL STRUCTURAL BRIDGE BEARINGS CONFORMING TO THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 565 AND SUBJECT TO THE FOLLOWING CONDITIONS:

1. THE BEARING DEVICES SUPPLIED SHALL BE CAPABLE OF TRANSMITTING THE LOADS AND MOVEMENT SHOWN ON THESE PLANS.
 2. THE DIMENSION "H" IN THE BEARING TABLE REPRESENTS THE ASSUMED TOTAL HEIGHT OF BEARING MECHANISM BETWEEN THE SOLE PLATE AND MASONRY PLATE USED BY THE DESIGNER TO ESTABLISH THE PEDESTAL ELEVATIONS. THE MINIMUM PEDESTAL HEIGHT SHALL NOT BE CHANGED WITHOUT WRITTEN APPROVAL OF THE DEPUTY CHIEF ENGINEER (STRUCTURES).
 3. ALL STEEL SHALL CONFORM TO ASTM A709, GR. 345 OR 345W.
 4. ALL STEEL FABRICATION SHALL CONFORM TO THE PROVISIONS OF THE LATEST EDITION OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.
 5. ALL METAL COMPONENTS OF THE BEARING SYSTEM WHICH ARE LIABLE TO COME INTO CONTACT DURING TRANSLATION SHALL HAVE A TEFLON SLIDING SURFACE FINISH.
 6. ALL EXPANSION BEARINGS SHALL HAVE A MAXIMUM FRICTION COEFFICIENT OF 3%.
 7. THE BEARING DEVICE, MASONRY PLATE, SOLE PLATE, ANCHOR BOLTS, NUTS, WASHER PLATES, AND BEARING PAD SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEMS.
 8. IF THE ANCHOR BOLTS ARE SET UNDER THE SOLE PLATE, A MINIMUM CLEARANCE EQUAL TO TWO TIMES THE THICKNESS OF ANCHOR NUT PLUS 1" SHALL BE MAINTAINED BETWEEN THE TOP OF MASONRY PLATE AND BOTTOM OF THE SOLE PLATE.
 9. FOR BEARINGS OF CAPACITY 1/8".
 10. WHEN THE THICKNESS OF MASONRY PLATE OR ANY OTHER PLATE BEING ACCORDANCE WITH THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.
 11. SEE DWG. ST-19 FOR CONNECTION & ANCHOR BOLT DETAILS. WHENEVER JACKING OF THE SUPERSTRUCTURE IS NEEDED TO RESET THE BEARINGS, THE CONTRACTOR SHALL SUBMIT A JACKING SEQUENCE TO THE E.I.C. FOR APPROVAL.
- * ONE WAY LONGITUDINAL MOVEMENT IS THE MAXIMUM ONE WAY MOVEMENT (EXPANSION OR CONTRACTION) OF THE SUPERSTRUCTURE WHEN BEARINGS ARE SET @ 68°F PLUS 1 INCH OF TOLERANCE.
- ** ON WIDE STRUCTURES AND ON CURVED STRUCTURES PROVISIONS SHALL BE MADE FOR LIMITED LATERAL MOVEMENT.



INDICATES PARTS DESIGNED BY THE MANUFACTURER

ADVANCE COPY

BEARING TABLE

LOCATION	FIX./EXP.	ITEM NO.	QUANTITY REQUIRED	CAPACITY (KIPS)		*ONE WAY LONGIT. MOVEMENT	**(G) GUIDE CLEARANCE	MASONRY PLATE				WASHER PLATE		SOLE PLATE		BRG. H	ANCHOR STUDS		WELD SIZE	
				HORIZ.	VERT.			Lm	Wm	T	E+	EI	Am	Bm	Aw		Bw	Ls	Ws	T1
S. ABUT.	EXP.	565.1522	4																	
S. PIER	EXP.	565.1522	4																	
N. ABUT.	EXP.	565.1522	4																	

T2 IS UPSTATION OF T1

PREPARED BY:
AMANN WILNEY

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

DATE	DESCRIPTION	BY	SYL

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
280 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER

LOCATION OF PROJECT
MONTGOMERY COUNTY CITY OF AMSTERDAM

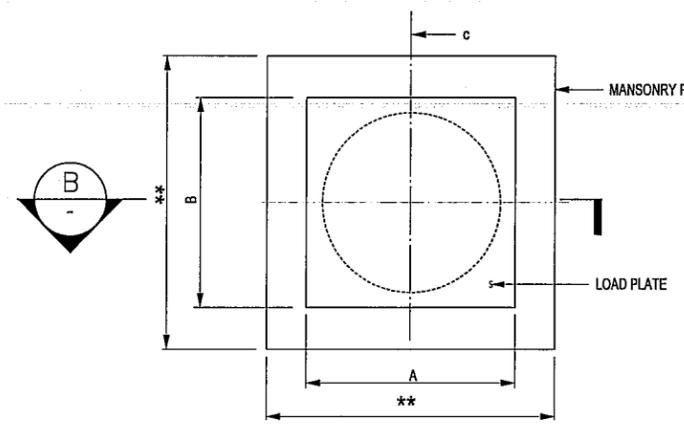
TITLE OF DRAWING
EXPANSION MULTI-ROTATIONAL BEARINGS

CONTRACT NUMBER:
A94067

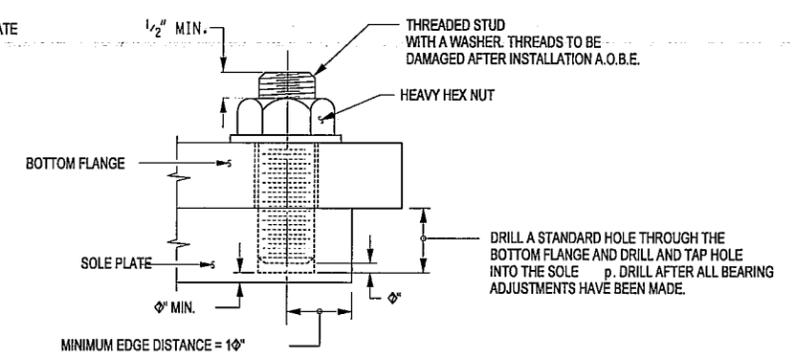
DATE:
OCT 01, 2012

DRAWING NUMBER:
ST-18

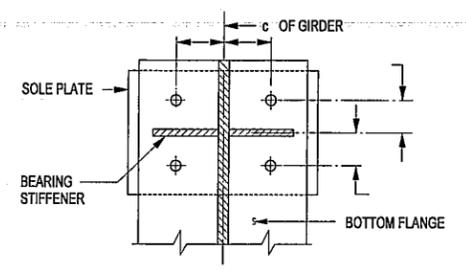
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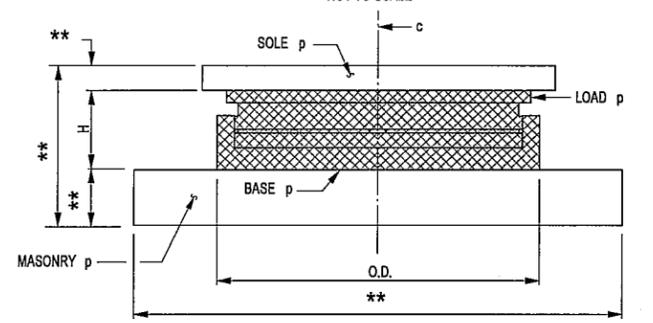
FIXED M.R. BEARING
NOT TO SCALE



STUD CONNECTION
NOT TO SCALE

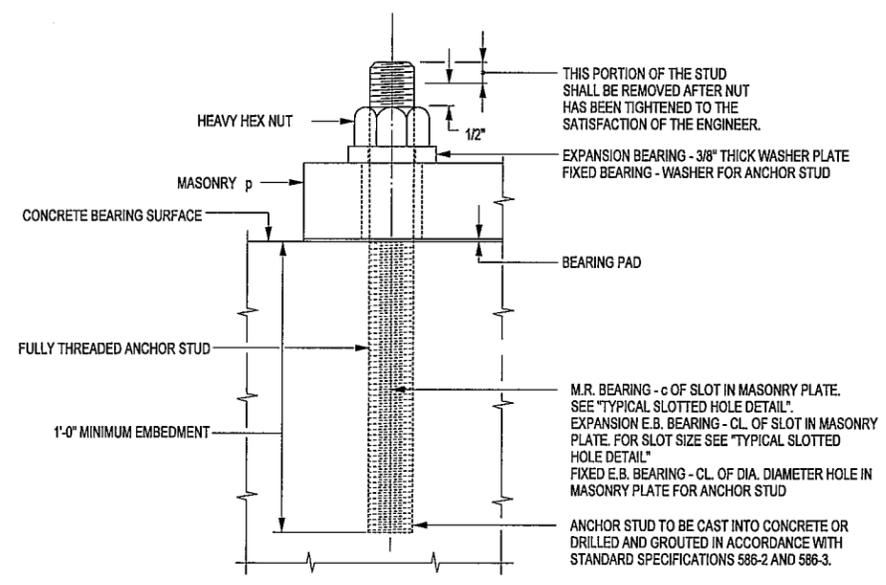


PLAN - CONNECTION DETAIL
NOT TO SCALE



SECTION B-B
FIXED M.R. BEARING SCHEMATIC
NOT TO SCALE

INDICATES PARTS DESIGNED BY THE MANUFACTURER



ANCHOR STUD
NOT TO SCALE

NOTE:
ANCHOR STUDS, WASHERS, WASHER PLATES, ANCHOR PLATES AND NUTS SHALL MEET THE REQUIREMENTS OF SUBSECTION 723-60. THEY SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF MATERIAL SUBSECTION 719-01, "GALVANIZING COATINGS AND REPAIR METHODS." THEIR COST (INCLUDING GALVANIZING) SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.

NOTES:

- THE CONTRACTOR SHALL SUPPLY MULTI-ROTATIONAL STRUCTURAL BRIDGE BEARINGS CONFORMING TO THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 565 AND SUBJECT TO THE FOLLOWING CONDITIONS:
1. THE BEARING DEVICES SUPPLIED SHALL BE CAPABLE OF TRANSMITTING THE LOADS AND MOVEMENT SHOWN ON THESE PLANS.
 2. THE DIMENSION "H" IN THE BEARING TABLE REPRESENTS THE ASSUMED TOTAL HEIGHT OF BEARING MECHANISM BETWEEN THE SOLE PLATE AND MASONRY PLATE USED BY THE DESIGNER TO ESTABLISH THE PEDESTAL ELEVATIONS. THE MINIMUM PEDESTAL HEIGHT SHALL NOT BE CHANGED WITHOUT WRITTEN APPROVAL OF THE DEPUTY CHIEF ENGINEER (STRUCTURES).
 3. ALL STEEL SHALL CONFORM TO ASTM A709, GR. 345 OR 345W.
 4. ALL STEEL FABRICATION SHALL CONFORM TO THE PROVISIONS OF THE LATEST EDITION OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.
 5. ALL METAL COMPONENTS OF THE BEARING SYSTEM WHICH ARE LIABLE TO COME INTO CONTACT DURING TRANSLATION SHALL HAVE A TEFLON SLIDING SURFACE FINISH.
 6. ALL EXPANSION BEARINGS SHALL HAVE A MAXIMUM FRICTION COEFFICIENT OF 3%.
 7. THE BEARING DEVICE, MASONRY PLATE, SOLE PLATE, ANCHOR BOLTS, NUTS, WASHER PLATES, AND BEARING PAD SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEMS.
 8. IF THE ANCHOR BOLTS ARE SET UNDER THE SOLE PLATE, A MINIMUM CLEARANCE EQUAL TO TWO TIMES THE THICKNESS OF ANCHOR NUT PLUS 1" SHALL BE MAINTAINED BETWEEN THE TOP OF MASONRY PLATE AND BOTTOM OF THE SOLE PLATE.
 9. FOR BEARINGS OF CAPACITY 1/8".
 10. WHEN THE THICKNESS OF MASONRY PLATE OR ANY OTHER PLATE BEING ACCORDANCE WITH THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.

WHENEVER JACKING OF THE SUPERSTRUCTURE IS NEEDED TO RESET THE BEARINGS, THE CONTRACTOR SHALL SUBMIT A JACKING SEQUENCE TO THE E.I.C. FOR APPROVAL.

* ONE WAY LONGITUDINAL MOVEMENT IS THE MAXIMUM ONE WAY MOVEMENT (EXPANSION OR CONTRACTION) OF THE SUPERSTRUCTURE WHEN BEARINGS ARE SET @ 68°F PLUS 1 INCH OF TOLERANCE.

** ON WIDE STRUCTURES AND ON CURVED STRUCTURES PROVISIONS SHALL BE MADE FOR LIMITED LATERAL MOVEMENT.

PREPARED BY:
COMMONWEALTH

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12018

DATE	DESCRIPTION	BY	SYN.

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER

LOCATION OF PROJECT
MONTGOMERY COUNTY CITY OF AMSTERDAM

TITLE OF DRAWING
FIXED MULTI-ROTATIONAL BEARINGS

CONTRACT NUMBER:
A94067

DATE:
OCT 01, 2012

DRAWING NUMBER:
ST-19

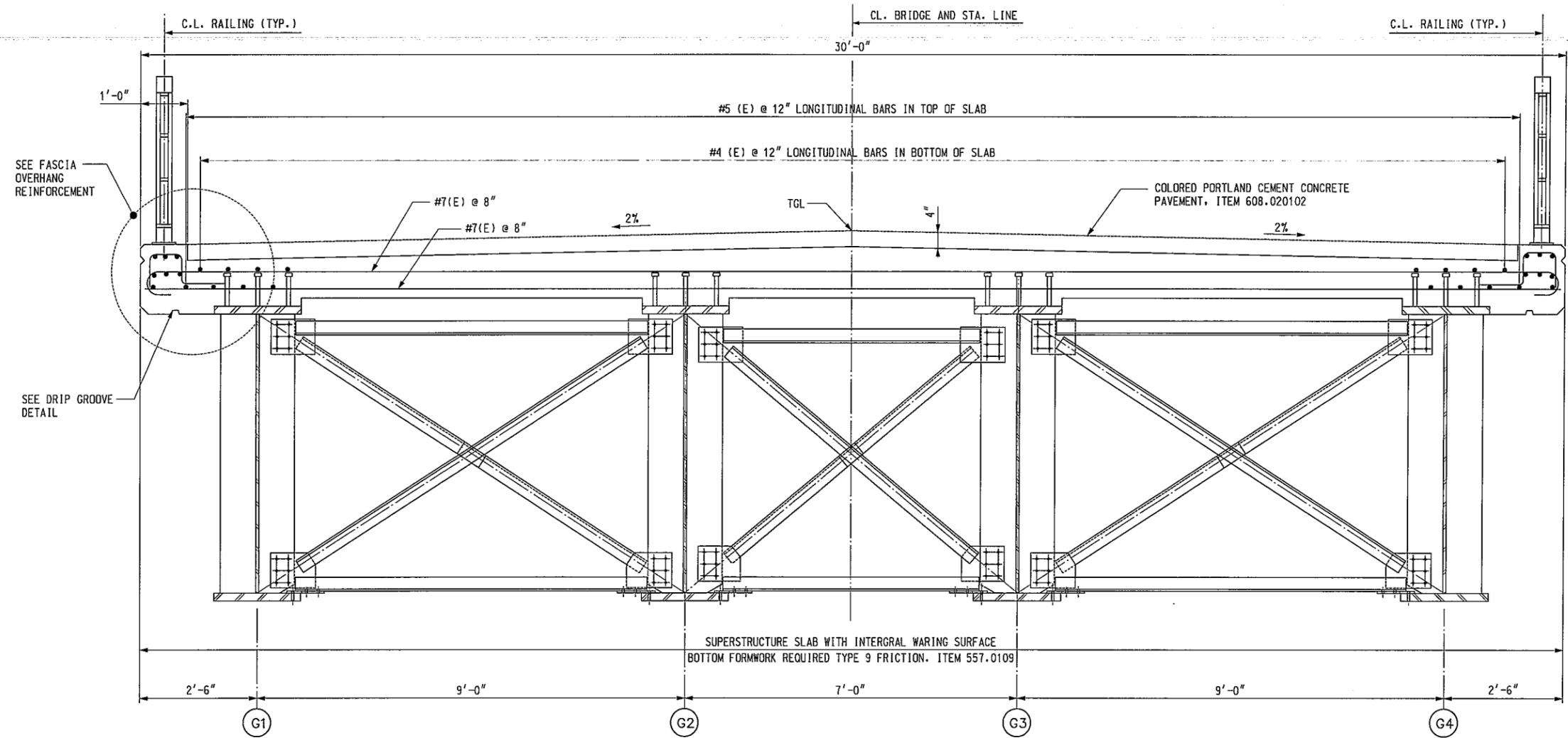
ADVANCE COPY

BEARING TABLE

LOCATION	FIX./EXP.	ITEM NO.	QUANTITY REQUIRED	CAPACITY (KIPS)		*ONE WAY LONGIT. MOVEMENT	**(G) GUIDE CLEARANCE	MASONRY PLATE						WASHER PLATE		SOLE PLATE		BRG. H	ANCHOR STUDS		WELD SIZE	
				HORIZ.	VERT.			Lm	Wm	T	E+	EI	Am	Bm	Awp	Bwp	Ls		Ws	T1	T2	DIA.
N. PIER	FIXED	565.1722	4																			

T2 IS UPSTATION OF T1

CHECKED BY: _____
 DRAFTED BY: _____
 DESIGNED BY: _____
 IN CHARGE OF: _____

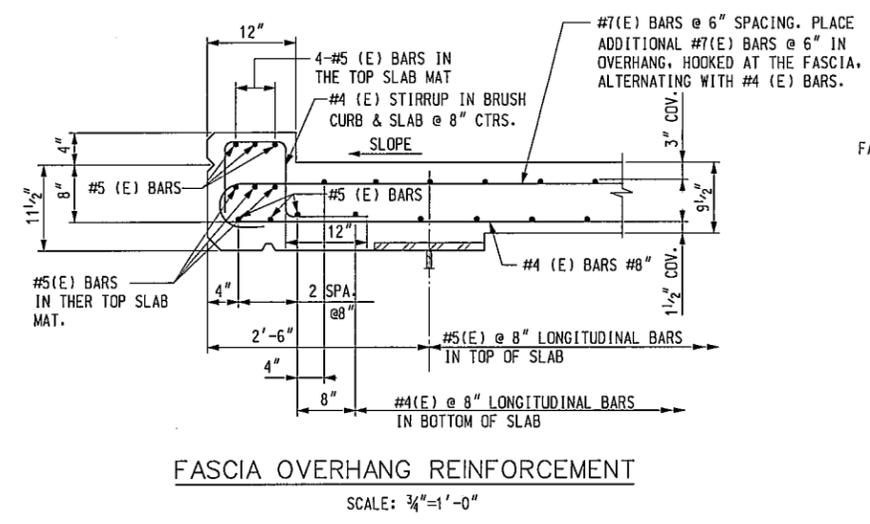


TYPICAL TRANSVERSE SECTION
SCALE: 3/4" = 1'-0"

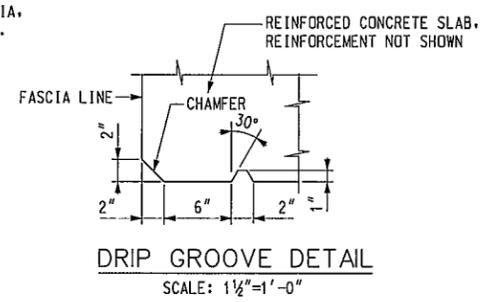
ADVANCE COPY

REFERENCE:
1. SUPERSTRUCTURAL DECK ST-32.

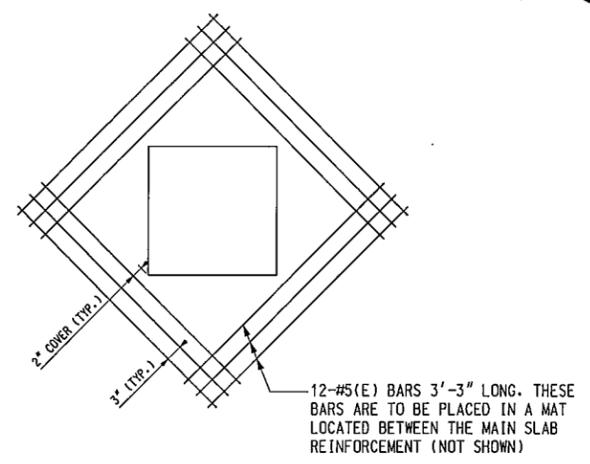
PREPARED BY: AMANN WITTEBY			
Engineering and Land Surveying, P.C. 1533 Chestnut Road - Orlin Park, NY 12065			
DATE	DESCRIPTION	BY	SYL
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING TYPICAL TRANSVERSE SECTION			
NEW YORK STATE THRUWAY AUTHORITY		CONTRACT NUMBER: A94067	DATE: OCT 01, 2012
		DRAWING NUMBER: ST-20	



FASCIA OVERHANG REINFORCEMENT
SCALE: 3/4" = 1'-0"



NOTE:
DRIP GROOVE STOPS 3'-0" FROM FACES OF ABUTMENTS OR PIERS WITH A 90° TURN TOWER FASCIA THAT INTERSECTS WITH THE CHAMFER.

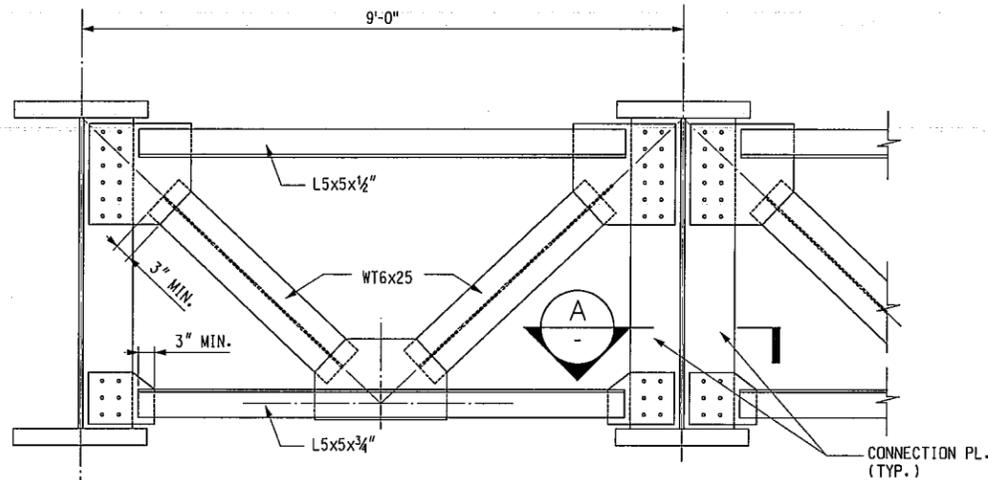


TYPICAL REINFORCEMENT PLAN AT SCUPPER
SCALE: 3/4" = 1'-0"

CHECKED BY:
 DRAFTED BY:
 DESIGNED BY:
 IN CHARGE OF:

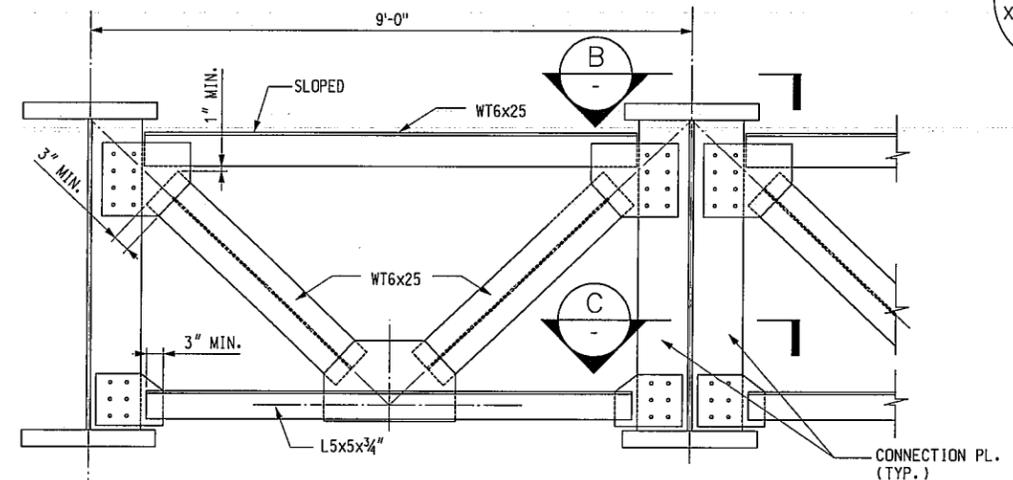
NOTES:

1. CONNECTIONS SHALL BE MADE ACCORDING TO THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.
2. UNLESS OTHERWISE INDICATED, BOLTED CONNECTIONS SHALL BE MADE WITH 7/8" DIA. A325 HIGH-STRENGTH BOLTS.
3. THE CONTRACTOR MAY PLACE DIAPHRAGMS ON EITHER SIDE OF THE BEARING STIFFENERS OR CONNECTION PLATES AS NECESSARY TO CORRECT ALIGNMENT PROVIDED THERE WILL BE NO INTERFERENCE WITH OTHER STRUCTURAL DETAILS.
4. TAPERED OR FLAT SHIM PLATES MAY BE USED IN THE CONNECTION BETWEEN SKEWED DIAPHRAGMS AND THE BEARING STIFFENERS. STIFFENER CONNECTION PLATES OR GUSSET PLATES. VARIABLE THICKNESSES OF SHIM PLATES MAY BE USED. THE MINIMUM THICKNESS OF SHIM PLATE SHALL BE 3/8" WITH A MAXIMUM NUMBER OF THREE SHIM PLATES PERMITTED AT ANY CONNECTION. THE TOTAL THICKNESS OF ALL SHIM PLATES USED AT ANY CONNECTION SHALL NOT EXCEED 1". SHIM PLATES SHALL HAVE THE DIMENSIONS OF THE FAYING SURFACE. THE SHIM MATERIAL SHALL CONFORM TO ASTM DESIGNATION A588 FOR WEATHERING STEEL APPLICATIONS. NO ADDITIONAL PAYMENT WILL BE MADE FOR FURNISHING AND PLACING THE SHIM PLATES.
5. DIAPHRAGM MEMBERS SHALL BE BLOCKED AS SHOWN, WITH THEIR FLANGE CUT BACK ON ONE SIDE, AND CHIPPED OR GROUND FLUSH. IN LIEU OF BLOCKING THE DIAPHRAGM MEMBER, THE FABRICATOR SHALL HAVE THE OPTION OF COPING THE FLANGE.
6. IN ORDER TO MAXIMIZE THE DISTANCE BETWEEN THE OUTSTANDING LEG OF THE TOP STRUT AND THE BOTTOM OF THE STRUCTURAL SLAB, THIS STRUT SHALL BE ORIENTED AS SHOWN. IN ADDITION, ON STRUCTURES WITH STRAIGHT BEAMS OR GIRDERS, THE POSITION OF THIS STRUT SHALL BE LOWERED (TO THE EXTENT THAT IT DOES NOT INTERFERE WITH THE ALIGNMENT OF THE DIAGONAL STRUTS AS SHOWN).
7. ON PAINTED CURVED STRUCTURES, WHERE PERMANENT CORRUGATED METAL FORMS ARE USED, AND THE DISTANCE FROM THE TOP SURFACE OF THE OUTSTANDING LEG OF THE INTERMEDIATE DIAPHRAGM TOP STRUT (OR THE TOP FLANGE OF A FULL DEPTH DIAPHRAGM) TO THE BOTTOM SURFACE OF THE FORMS IS LESS THAN 6", THE CONTRACTOR SHALL REMOVE THE METAL FORMS ABOVE, AND FOR A DISTANCE OF 4 FT. ON EACH SIDE OF THE CENTER LINES OF SUCH DIAPHRAGMS. THE COST OF REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE STRUCTURAL STEEL ITEM. AS AN OPTION, THE CONTRACTOR MAY WISH TO CONSIDER THE USE OF REMOVABLE FORMS ON A PORTION OR ALL OF SUCH SLABS.
8. FOR LONGITUDINAL JOINTS IN THE SLAB, E. G. CLOSURE POURS, ONLY ONE SIDE OF THE INTERMEDIATE DIAPHRAGMS UNDER THE JOINT SHALL BE CONNECTED WHEN ERECTED. AFTER ALL PORTIONS OF THE SLAB HAVE BEEN POURED AND SET TO THE SATISFACTION OF THE ENGINEER, THE OTHER SIDE OF THE DIAPHRAGMS SHALL BE CONNECTED.
9. ALL BOLT HEADS SHALL BE PLACED ON THE TOP SIDE OF CONNECTIONS UNLESS OTHERWISE NOTED.



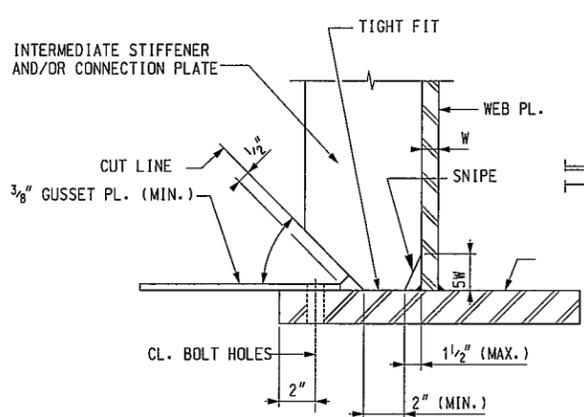
INTERMEDIATE DIAPHRAGM-TYPE D2
(BOTTOM LATERAL BRACING NOT SHOWN)

SCALE: 3/4" = 1' = 0"

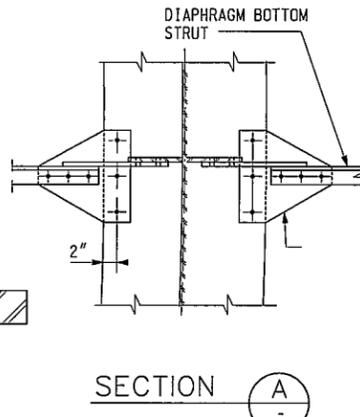


END DIAPHRAGM-TYPE D1
(BOTTOM LATERAL BRACING NOT SHOWN)

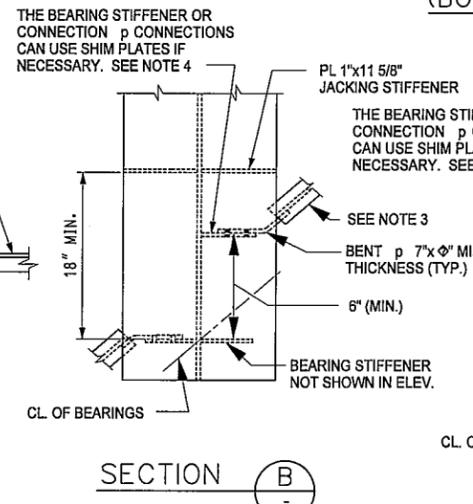
SCALE: 3/4" = 1' = 0"



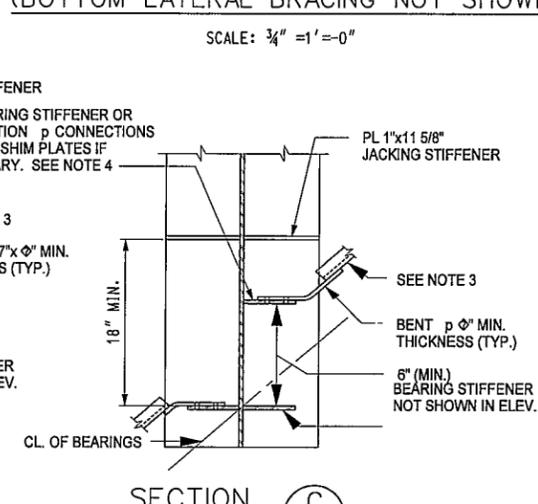
FLANGE WIDTH GREATER THAN OR EQUAL TO 1'-4"
N.T.S.



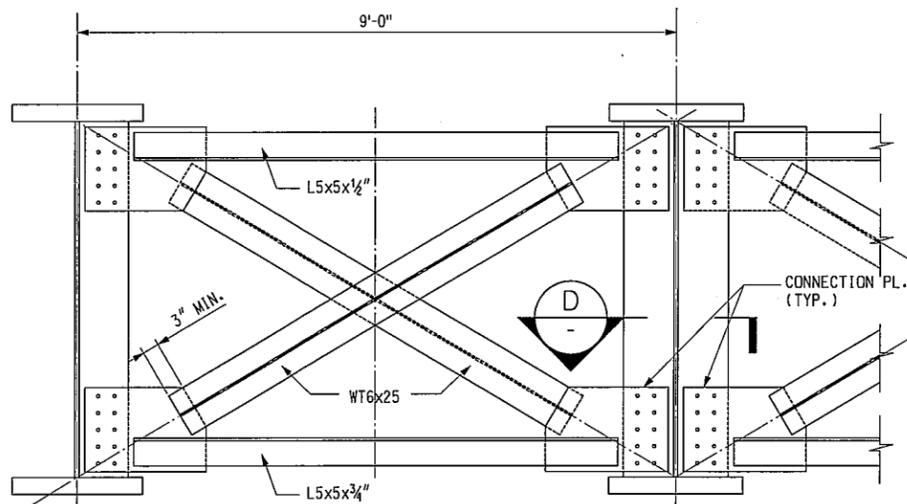
SECTION A
(WITHOUT BOTTOM LATERALS)
N.T.S.



SECTION B
(WITHOUT BOTTOM LATERALS)
N.T.S.

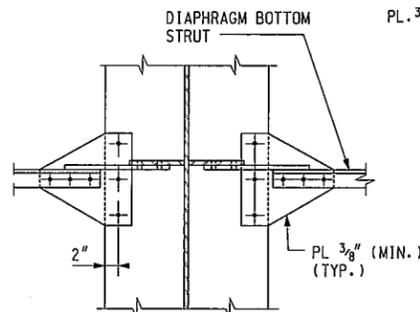


SECTION C
(WITHOUT BOTTOM LATERALS)
N.T.S.

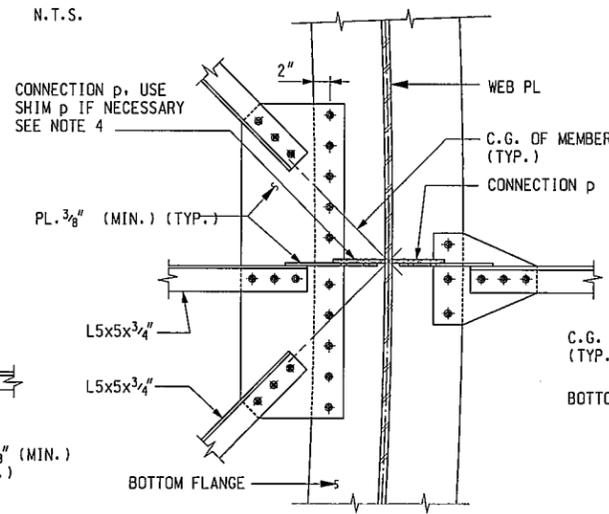


INTERMEDIATE DIAPHRAGM-TYPE D3
(BOTTOM LATERAL BRACING NOT SHOWN)

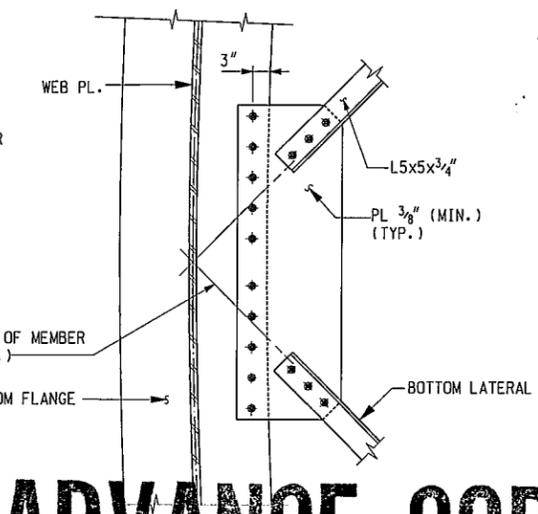
SCALE: 3/4" = 1' = 0"



SECTION D
(WITHOUT BOTTOM LATERALS)
N.T.S.



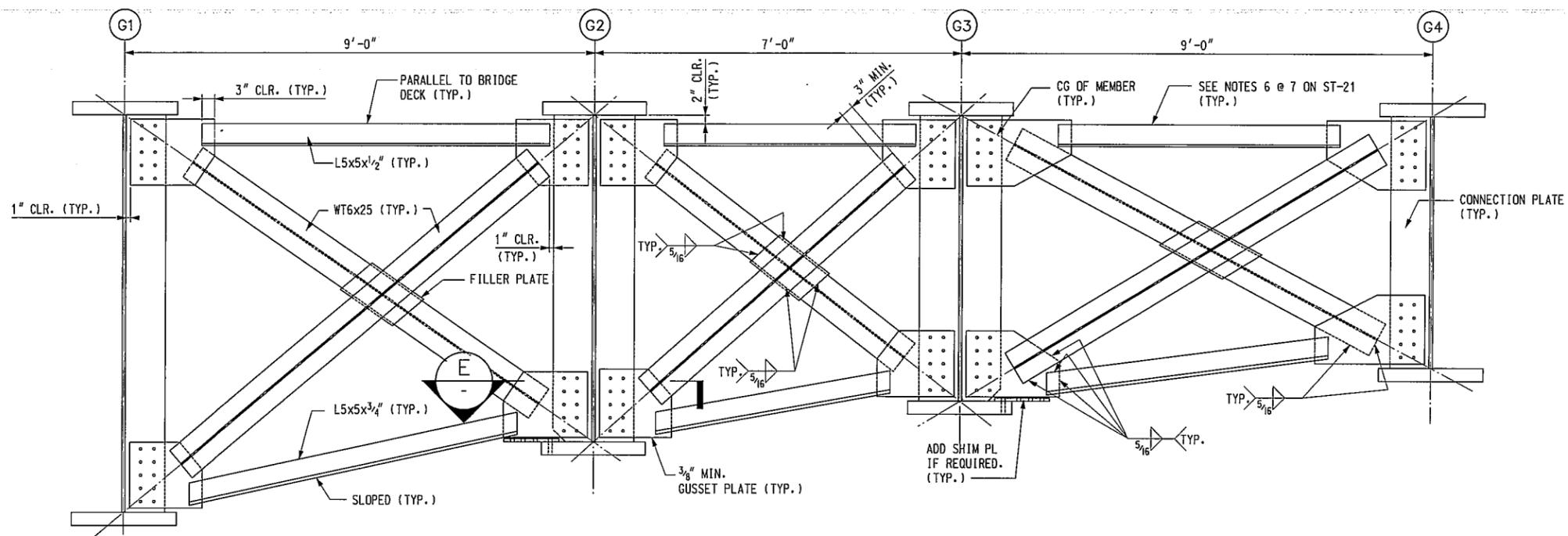
SECTION D
(WITH BOTTOM LATERALS)
N.T.S.



LATERAL BRACING CONNECTION
WITHOUT DIAPHRAGMS
N.T.S.

PREPARED BY: COMMONWEALTH			
Engineering and Land Surveying, P.C. 1531 Crescent Road - Clifton Park, NY 12065			
DATE	DESCRIPTION	BY	SYN.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
DRAWING DIAPHRAGM DETAILS			
CONTRACT NUMBER: A94067		DATE: OCT 01, 2012	
DRAWING NUMBER: ST-21			

ADVANCE COPY



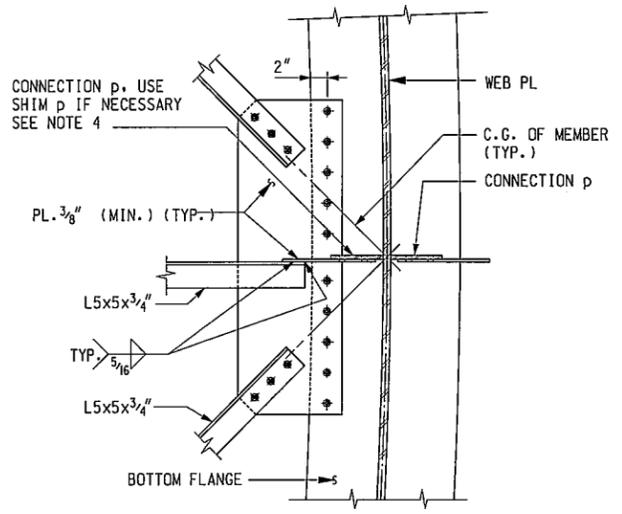
INTERMEDIATE DIAPHRAGM - TYPE D4A, D4B, AND D4C

(BOTTOM LATERAL BRACING NOT SHOWN)
SCALE: 3/4" = 1'-0"

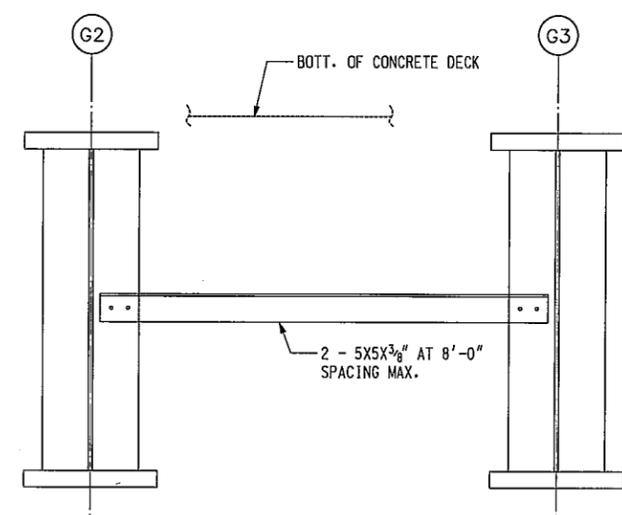
NOTES:
DIAPHRAGM TYPE D5A TO D5C, D6A TO D6C AND D7A TO D7C ARE SIMILAR.

REFERENCE:
1. PROPOSED FRAMING ST-23
2. DIAPHRAGM DETAILS ST-21 (1 OF 2)

CHECKED BY: _____
 DRAFTED BY: _____
 DESIGNED BY: _____
 IN CHARGE OF: _____



SECTION E
(WITH BOTTOM LATERALS)
N.T.S.

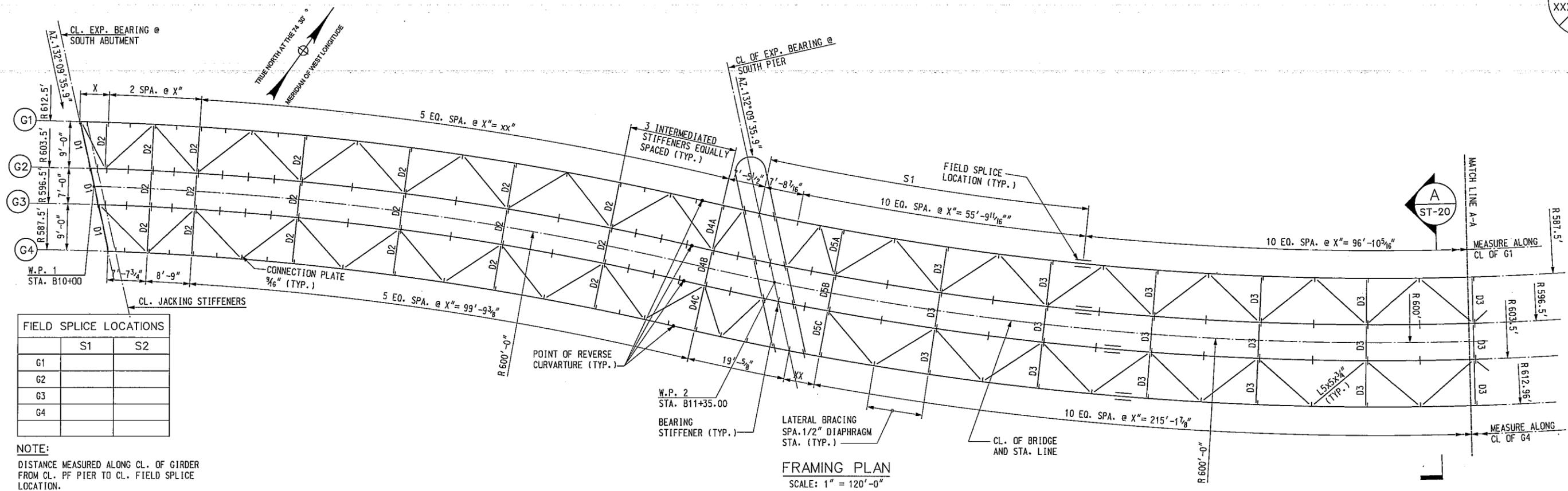


UTILITY SUPPORT DETAIL AT INTERIOR BAY
SCALE: 3/4" = 1'-0"

ADVANCE COPY

PREPARED BY: AMMANN & WILHELMY			
Engineering and Land Surveying, P.C. 1333 Cassport Road - Cassin Park, NY 12066			
DATE	DESCRIPTION	BY	SYL
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING DIAPHRAGM DETAILS (2 OF 2)			
		CONTRACT NUMBER: A94067	
		DATE: OCT 01, 2012	
		DRAWING NUMBER: ST-22	

CHECKED BY: DRAFTED BY: DESIGNED BY: IN CHARGE OF:



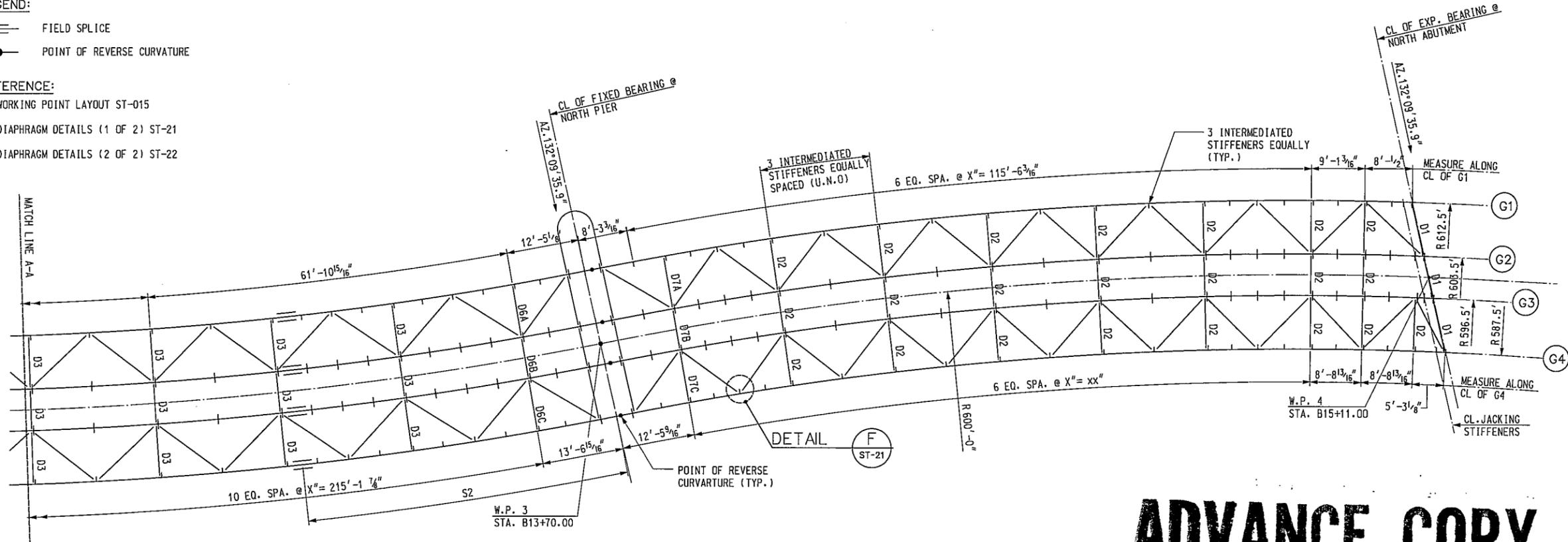
FIELD SPLICE LOCATIONS

	S1	S2
G1		
G2		
G3		
G4		

NOTE:
DISTANCE MEASURED ALONG CL. OF GIRDER FROM CL. OF PIER TO CL. OF FIELD SPLICE LOCATION.

LEGEND:
 FIELD SPLICE
 POINT OF REVERSE CURVATURE

- REFERENCE:
1. WORKING POINT LAYOUT ST-015
 2. DIAPHRAGM DETAILS (1 OF 2) ST-21
 3. DIAPHRAGM DETAILS (2 OF 2) ST-22



FRAMING PLAN
SCALE: 1" = 120'-0"

ADVANCE COPY

PREPARED BY:
AMANN WITTELY

Engineering and Land Surveying, P.C.
1533 Crescent Road - Cotton Plains, NY 12025

DATE	DESCRIPTION	BY	SYN.
REVISIONS			

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
280 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER

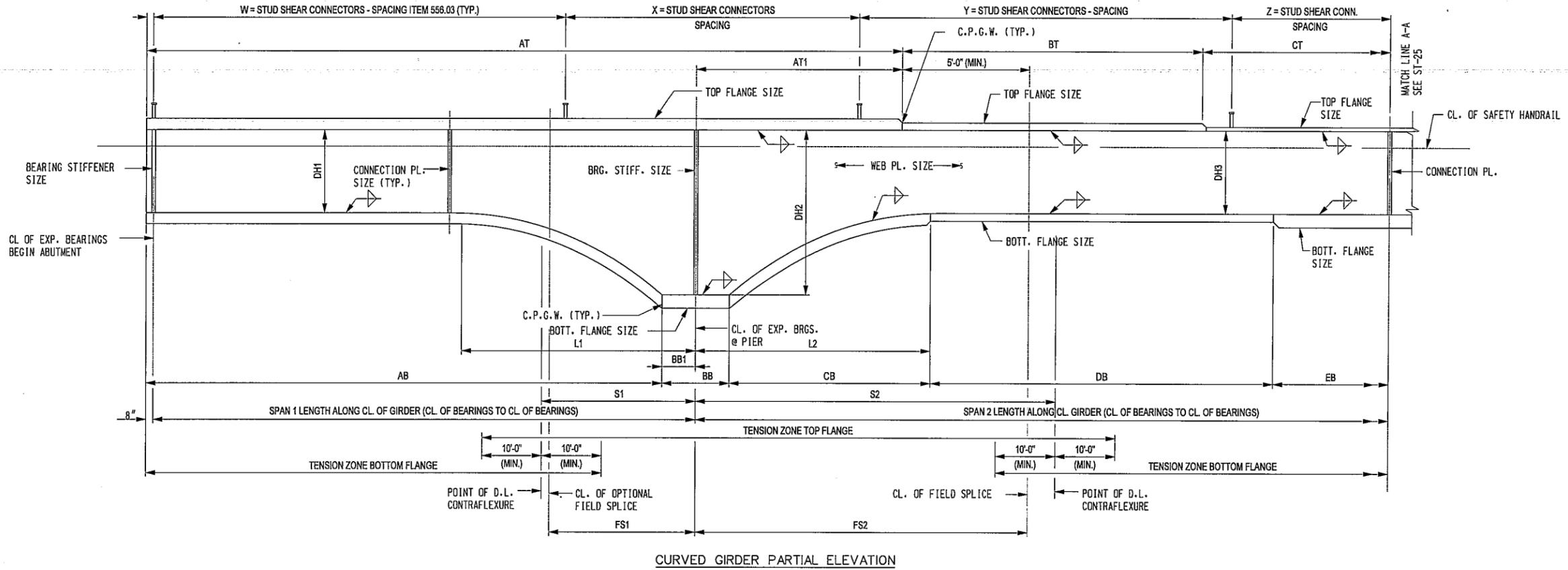
LOCATION OF PROJECT
MONTGOMERY COUNTY CITY OF AMSTERDAM

TITLE OF DRAWING
PROPOSED FRAMING PLAN

CONTRACT NUMBER:
A94067

DATE:
OCT 01, 2012

DRAWING NUMBER:
ST-23



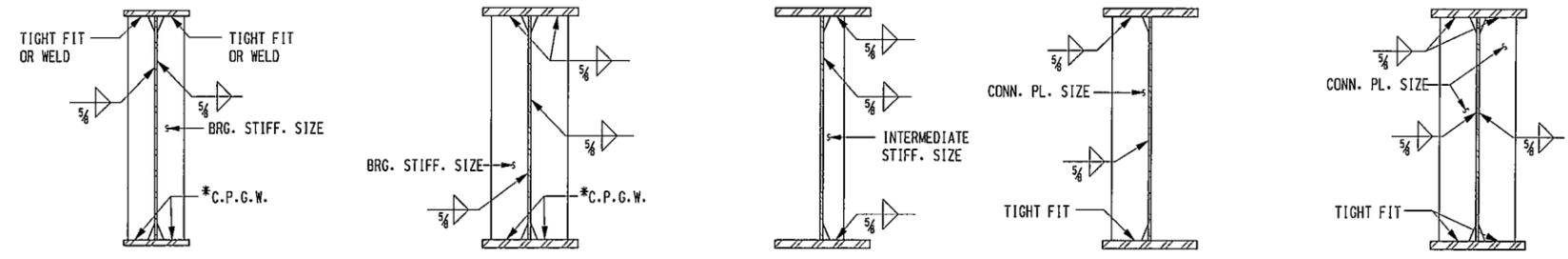
CURVED GIRDER PARTIAL ELEVATION

MARK	RADIUS OF CURVATURE			SPAN 1		SPAN 2		SPAN 3		TOTAL OF THREE SPAN	D.L. PT. OF CONTRAFLEXURE		SHEAR CONNECTORS - LENGTH				FIELD SPLICE DISTANCE			
	SPAN 1	SPAN 2	SPAN 3	LENGTH	DIA. SPA.	LENGTH	DIA. SPA.	LENGTH	DIA. SPA.		S1	S2	W	X	Y	Z	FS1	FS2	L1	L2
G1	612'-6"	587'-6"	612'-6"	134'-8 3/4"	SEE PLAN	235'-4"	SEE PLAN	140'-11 13/16"	SEE PLAN	510'-11 15/16"	76'-8 1/4"	68'-3 5/8"					76'-0"	64'-0"	24'-0 13/16"	25'-11 3/16"
G2	603'-6"	596'-6"	596'-6"	134'-11 1/8"	SEE PLAN	235'-1 1/8"	SEE PLAN	140'-11 3/4"	SEE PLAN	511'-0"	72'-10 15/16"	64'-5 9/16"					76'-0"	62'-0"	23'-0 3/4"	25'-11 1/4"
G3	596'-6"	603'-6"	603'-6"	135'-0 1/4"	SEE PLAN	234'-10 15/16"	SEE PLAN	140'-0 1/4"	SEE PLAN	511'-0 1/4"	68'-10 13/16"	64'-10 3/16"					69'-0"	66'-0"	24'-1"	25'-11"
G4	587'-6"	612'-6"	612'-6"	135'-2 15/16"	SEE PLAN	234'-8 1/4"	SEE PLAN	140'-0 1/8"	SEE PLAN	511'-0 1/8"	63'-2 3/16"	66'-0 1/2"					64'-0"	66'-0"	23'-0 1/8"	25'-11 15/16"

MARK	TOP FLANGE LENGTH				BOTTOM FLANGE LENGTH						TOP FLANGE THICKNESS			BOTTOM FLANGE THICKNESS						WEB DEPTH		
	AT	AT1	BT	CT	AB	BB	BB1	CB	DB	EB	AT	BT	CT	AB	BB	CB	DB	EB	DH1	DH2	DH3	
G1	165'-8 1/4"	30'-3 1/4"	160'-0"	-	130'-5"	10'-0"	5'-0"	25'-3 1/4"	160'-0"	-	3"	1.5"	-	3"	3"	3"	1.5"	-	4'-5 1/2"	8'-6 1/2"	5'-6 1/2"	
G2	165'-8 1/4"	30'-0 7/8"	159'-0"	-	130'-7 3/8"	10'-0"	5'-0"	25'-0 7/8"	159'-0"	-	3"	1.5"	-	3"	3"	3"	1.5"	-	4'-5 1/2"	8'-6 1/2"	5'-6 1/2"	
G3	165'-8 1/4"	29'-11 1/8"	50'-11 1/2"	107'-0"	130'-9 1/8"	10'-0"	5'-0"	24'-11 1/8"	50'-11 1/2"	107'-0"	3"	2"	1.5"	3"	3"	3"	2"	1.5"	4'-5 1/2"	8'-6 1/2"	5'-6 1/2"	
G4	165'-8 1/4"	29'-1 1/16"	49'-2 1/2"	107'-6 1/2"	130'-11 3/16"	10'-0"	5'-0"	24'-9 1/8"	49'-2 1/2"	107'-6 1/2"	3"	2"	1.5"	3"	3"	3"	2"	2.25"	4'-5 1/2"	8'-6 1/2"	5'-6 1/2"	

NOTE: TOP AND BOTTOM FLANGES WIDTH IS 24" TYP. U.N.O.

ADVANCE COPY



GIRDER SECTIONS

LEGEND:

C.P.G.W = COMPLETE PENETRATION GROOVE WELD

REFERENCE:

- PROPOSED FRAMING PLAN ST-23
- GIRDER ELEVATIONS AND SECTION (2 OF 2) ST-25
- MISCELLANEOUS STEEL DETAILS ST-30

NOTES:

- NO WELDING SHALL BE ALLOWED WITHIN THE TENSION ZONES SHOWN UNLESS CONSTRUCTION AIDS BY WELDING WITHIN THE TENSION AREAS SHOWN IS PROHIBITED.
- ALL LENGTHS ARE MEASURED ALONG CL. OF GIRDER.

PREPARED BY:
AMMONS WILNEY

Engineering and Land Surveying, P.C.
1933 Concord Road - Chilton Park, NY 12025

DATE	DESCRIPTION	BY	SYM.

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12229

TITLE OF PROJECT
NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER

LOCATION OF PROJECT
MONTGOMERY COUNTY
CITY OF AMSTERDAM

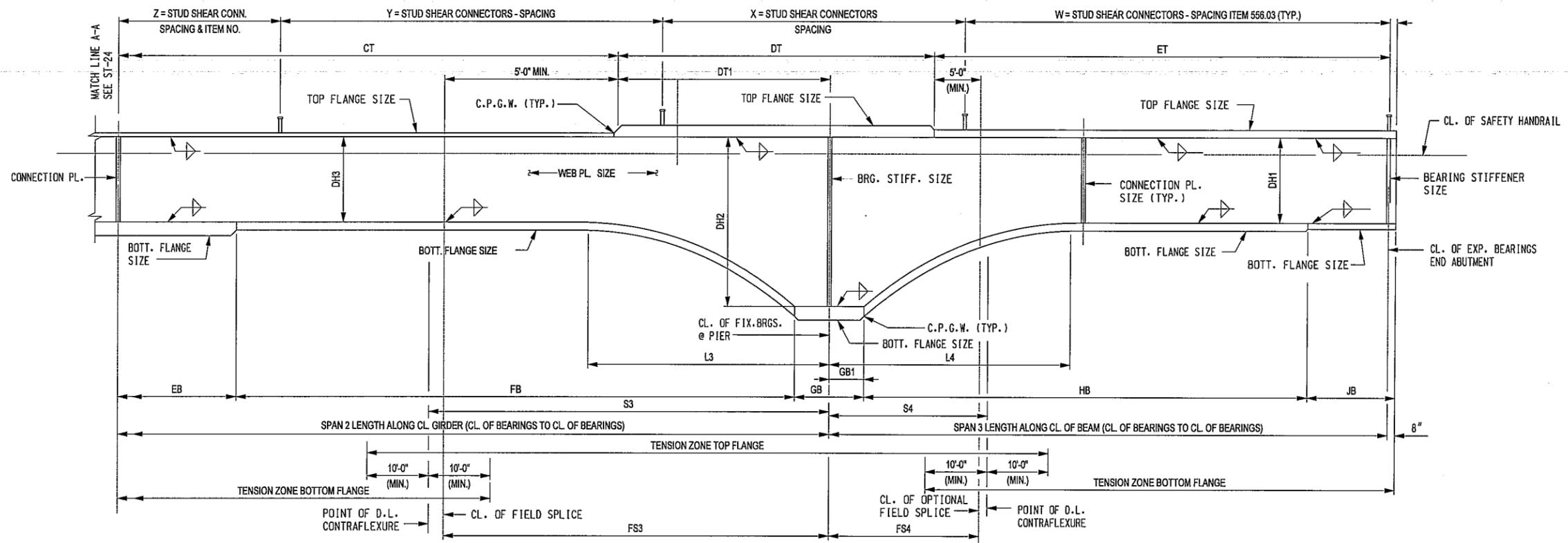
TITLE OF DRAWING
GIRDER ELEVATION AND SECTIONS (1 OF 2)

CONTRACT NUMBER:
A94067

DATE:
OCT 01, 2012

DRAWING NUMBER:
ST-24

CHECKED BY: _____
 DRAFTED BY: _____
 DESIGNED BY: _____
 IN CHARGE OF: _____



CURVED GIRDER PARTIAL ELEVATION

MARK	RADIUS OF CURVATURE			SPAN 1		SPAN 2		SPAN 3		TOTAL OF THREE SPAN	D.L. PT. OF CONTRAFLEXURE			SHEAR CONNECTORS - LENGTH				FIELD SPLICE DISTANCE			
	SPAN 1	SPAN 2	SPAN 3	LENGTH	DIA. SPA.	LENGTH	DIA. SPA.	LENGTH	DIA. SPA.		S3	S4	W	X	Y	Z	FS3	FS4	L3	L4	
G1	612'-6"	587'-6"	612'-6"	134'-8 3/4"	SEE PLAN	235'-4"	SEE PLAN	140'-11 1/4"	SEE PLAN	510'-11 1/4"	50'-11 1/4"	68'-10 1/4"					51'-0"	64'-0"	23'-10 3/8"	26'-11 3/8"	
G2	603'-6"	596'-6"	596'-6"	134'-11 1/8"	SEE PLAN	235'-1 1/8"	SEE PLAN	140'-11 3/4"	SEE PLAN	511'-0"	50'-2 5/8"	62'-2 1/4"					52'-0"	63'-0"	24'-0"	26'-0"	
G3	596'-6"	603'-6"	603'-6"	135'-0 1/4"	SEE PLAN	234'-10 1/4"	SEE PLAN	140'-0 1/4"	SEE PLAN	511'-0 1/4"	52'-5 1/2"	57'-3 1/4"					52'-9"	62'-0"	23'-6 3/8"	26'-5 1/8"	
G4	587'-6"	612'-6"	612'-6"	135'-2 1/4"	SEE PLAN	234'-8 1/4"	SEE PLAN	140'-0 7/8"	SEE PLAN	511'-0 1/4"	53'-8 3/8"	76'-7 3/8"					53'-9"	62'-0"	23'-0 1/8"	26'-10 3/8"	

MARK	TOP FLANGE LENGTH				BOTTOM FLANGE LENGTH						TOP FLANGE THICKNESS			BOTTOM FLANGE THICKNESS					WEB DEPTH		
	CT	DT	DT1	ET	EB	FB	GB	GB1	HB	JB	CT	DT	ET	EB	FB	GB	HB	JB	DH1	DH2	DH3
G1	-	87'-3"	45'-0"	99'-5 3/8"	-	40'-0 3/4"	10'-0"	5'-0"	66'-8 1/4"	69'-11 3/8"	-	2.5"	2"	-	2.5"	2.5"	2.5"	-	4'-5 1/2"	8'-6 1/2"	5'-6 1/2"
G2	-	87'-4"	46'-0 1/4"	100'-4 1/4"	-	41'-0 1/4"	10'-0"	5'-0"	66'-3 3/4"	70'-4 1/4"	-	2.75"	2"	-	2.5"	2.5"	2.5"	-	4'-5 1/2"	8'-6 1/2"	5'-6 1/2"
G3	107'-0"	88'-8 3/4"	47'-0 3/8"	100'-0 1/4"	107'-0"	42'-0 3/8"	10'-0"	5'-0"	66'-8 1/4"	70'-0 1/4"	1.5"	2"	2"	1.5"	3"	3"	2"	1.5"	4'-5 1/2"	8'-6 1/2"	5'-6 1/2"
G4	107'-6 1/2"	90'-0"	48'-2 3/8"	99'-11 3/8"	107'-6 1/2"	43'-2 3/8"	10'-0"	5'-0"	64'-7 1/4"	72'-1 3/8"	1.5"	2"	2"	1.5"	3"	3"	2"	2.25"	4'-5 1/2"	8'-6 1/2"	5'-6 1/2"

NOTE: TOP AND BOTTOM FLANGE WIDTH IS 24" TYP. U.N.O.

ADVANCE COPY

LEGEND:
C.P.G.W = COMPLETE PENETRATION GROOVE WELD

- REFERENCE:
1. PROPOSED FRAMING PLAN ST-23
 2. GIRDER ELEVATIONS AND SECTION (1 OF 2) ST-24
 3. MISCELLANEOUS STEEL DETAILS ST-30

- NOTES:
1. NO WELDING SHALL BE ALLOWED WITHIN THE TENSION ZONES SHOWN UNLESS CONSTRUCTION AIDS BY WELDING WITHIN THE TENSION AREAS SHOWN IS PROHIBITED.
 2. ALL LENGTHS ARE MEASURED ALONG CL. OF GIRDER.

PREPARED BY:
AMMAN WILNEY

Engineering and Land Surveying, P.C.
1533 Crescent Road - Citron Park, NY 12065

DATE	DESCRIPTION	BY	SYL

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
280 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
NEW PEDESTRIAN BRIDGE OVER THE HUDSON RIVER

LOCATION OF PROJECT
MONTGOMERY COUNTY CITY OF AMSTERDAM

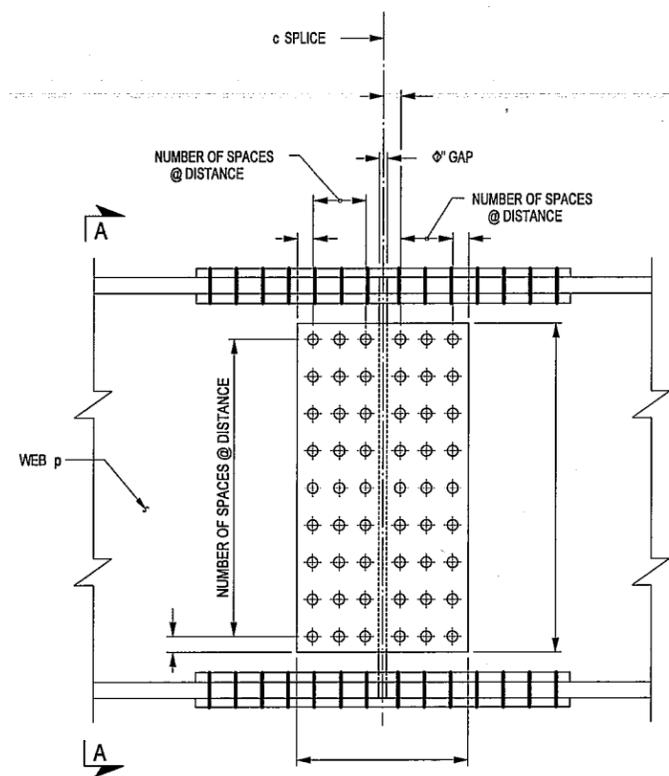
TITLE OF DRAWING
GIRDER ELEVATION AND SECTIONS (1 OF 2)

CONTRACT NUMBER:
A94067

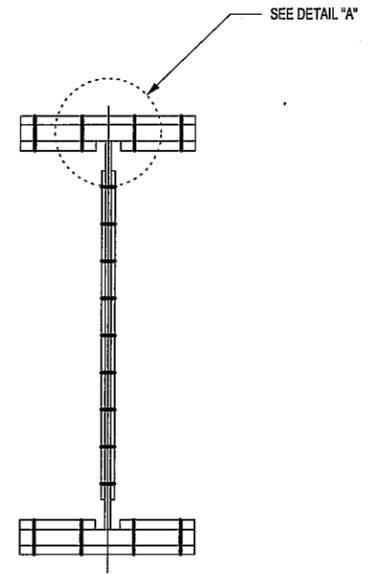
DATE:
OCT 01, 2012

DRAWING NUMBER:
ST-25

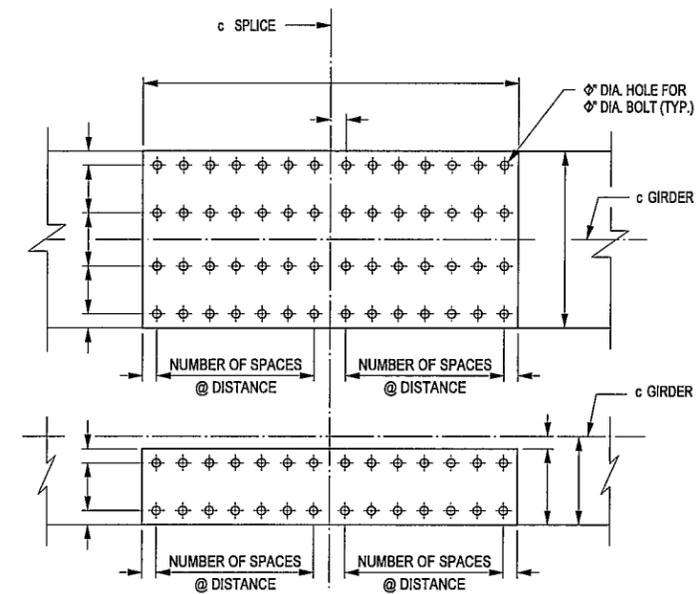
CHECKED BY: _____
 DRAFTED BY: _____
 DESIGNED BY: _____
 IN CHARGE OF: _____



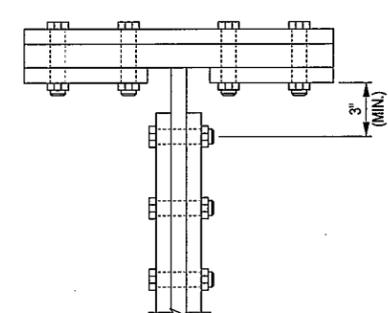
WEB SPLICE DETAIL



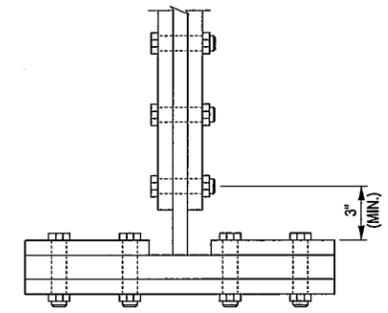
SECTION A-A



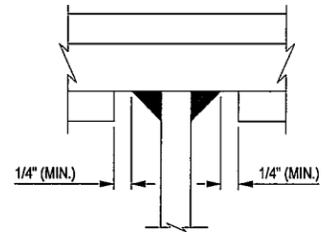
TOP & BOTTOM FLANGE SPLICE DETAIL



TOP FLANGE



BOTTOM FLANGE



DETAIL 1
SCALE: _____

φ" DIAMETER BOLT ENTERING AND TIGHTENING CLEARANCES

GIRDER SPLICE NOTES:

ALL COSTS FOR BOLTS, NUTS, AND WASHERS SHALL BE INCLUDED IN THE PRICE BID FOR STRUCTURAL STEEL.

SPLICE DESIGNS ARE BASED ON THE LOCATIONS INDICATED. THE CONTRACTOR HAS THE OPTION OF USING ALTERNATE SPLICE LOCATIONS* HOWEVER, RELOCATION REQUESTS MUST BE SUBMITTED TO THE D.C.E.S. FOR APPROVAL. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR RELOCATING THE SPLICE. FABRICATION SHALL CONFORM TO THE CURRENT NEW YORK STATE STEEL CONSTRUCTION MANUAL.

BOLTS NUTS & WASHERS:

WEATHERING STEEL APPLICATIONS:

ALL BOLTS SHALL BE φ" DIA. HIGH STRENGTH ASTM A325 (TYPE 3). NUTS AND WASHERS SHALL BE A563 AND F436 RESPECTIVELY.

GALVANIZED STEEL APPLICATIONS:

ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO SECTION 1001.1 OF THE NYS DOT STEEL CONSTRUCTION MANUAL. (ZINC PRIMER SPECIFICATION)

WEATHERING STEEL APPLICATIONS:

ALL SPLICE PLATES SHALL BE SAME GRADE STEEL AS THE GIRDERS.

SPLICE PLATES SHALL HAVE OXYGEN CUT EDGES, AS PER SECTION 609 OF THE NYS STEEL CONSTRUCTION MANUAL.

SUBJECT TO D.C.E.S. APPROVAL, THE CONTRACTOR CAN PROPOSE THE USE OF A WELDED SPLICE. HOWEVER, ALL COST ASSOCIATED WITH THIS CHANGE WILL BE AT THE CONTRACTOR'S EXPENSE. ADDITIONALLY, A DETAILED WELDING PROCEDURE, AS PER NYS STEEL CONSTRUCTION MANUAL 203.5(D), OF THE NYS STEEL CONSTRUCTION MANUAL SHALL BE SUBMITTED TO THE D.C.E.S. FOR APPROVAL.

BOLT LOCATIONS SHOWN MAY HAVE TO BE MOVED Laterally ON THEIR FLANGE TO MEET SEALING REQUIREMENTS AS DESCRIBED IN SECTION 203.13 OF THE NYS STEEL CONSTRUCTION MANUAL.

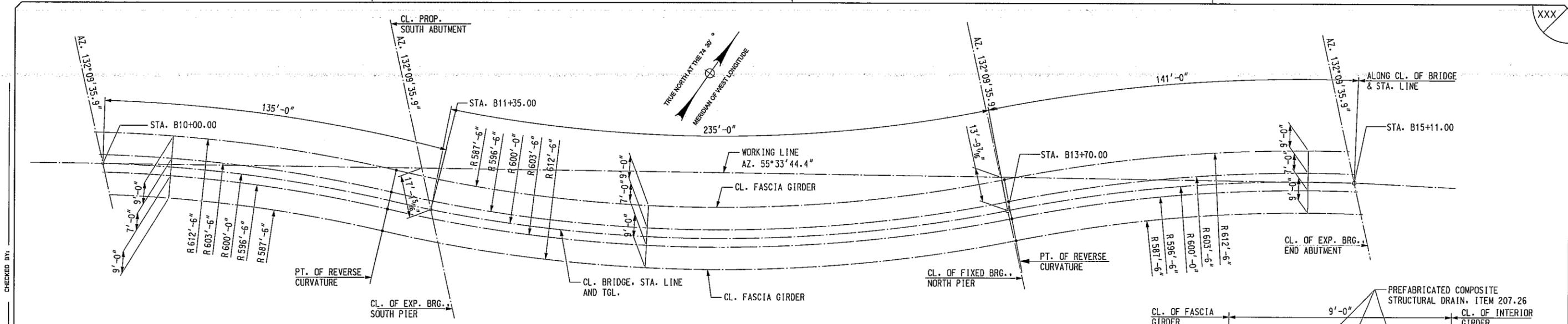
NOTE:

DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

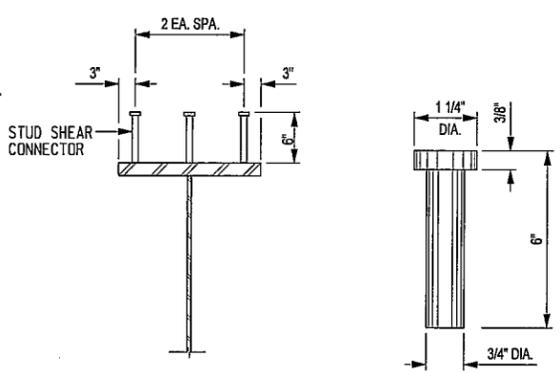
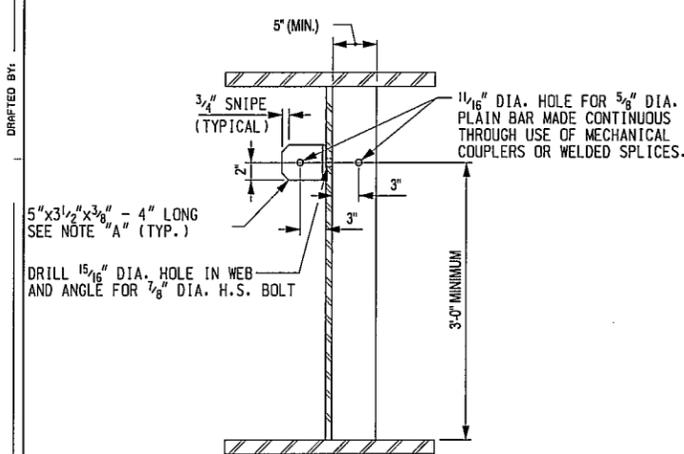
ADVANCE COPY

	WEB SPLICE	BOTTOM FLANGE SPLICE	WEB SPLICE
SPLICE p	1- p 2- p	1- p 2- p	2- p
NO. OF BOLTS	NO. EACH SIDE	NO. EACH SIDE	NO. EACH SIDE

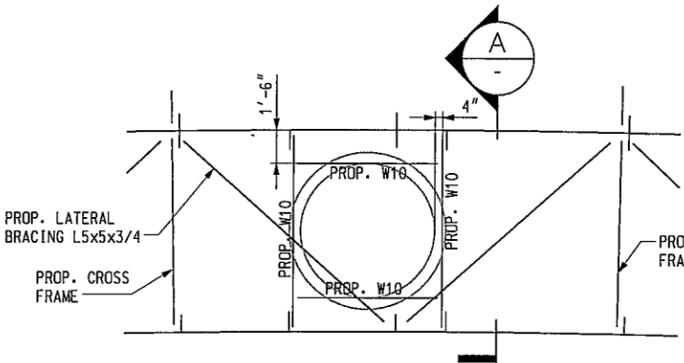
PREPARED BY: AMANN WILFREY			
DATE	DESCRIPTION	BY	SYL
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 288 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING GIRDER SPLICE DETAILS			
		CONTRACT NUMBER: A94067	
		DATE: OCT 01, 2012	
		DRAWING NUMBER: ST-29	



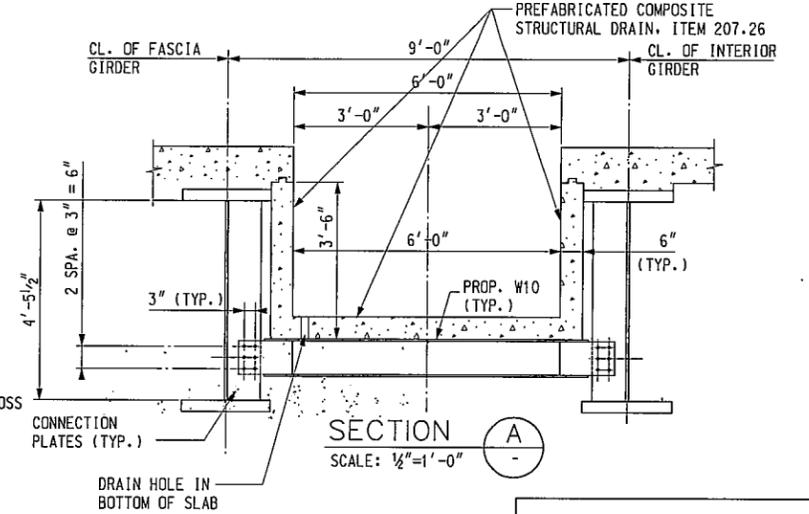
CURVED BRIDGE GIRDER SCHEMATIC LAYOUT
SCALE: 1" = 20'-0"



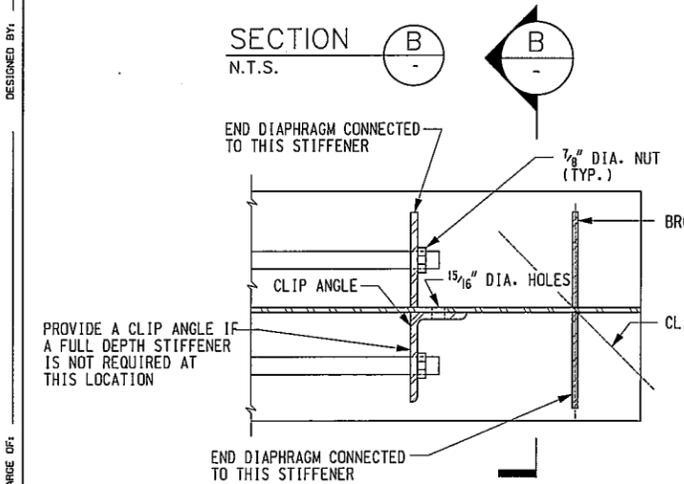
STUD SHEAR CONNECTOR DETAIL
STUD DETAIL



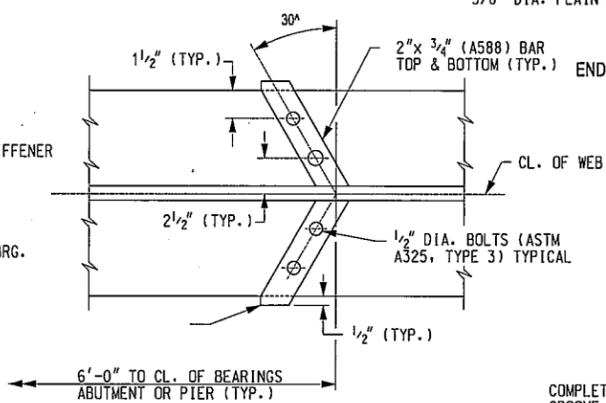
TYPICAL STEEL FRAMING FOR TREE PIT
SCALE: 1/4" = 1'-0"



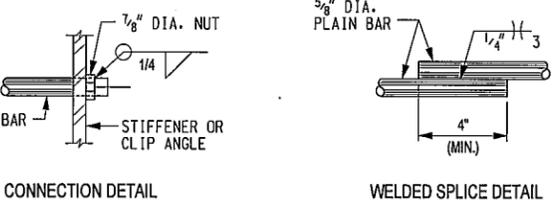
SECTION A
SCALE: 1/2" = 1'-0"



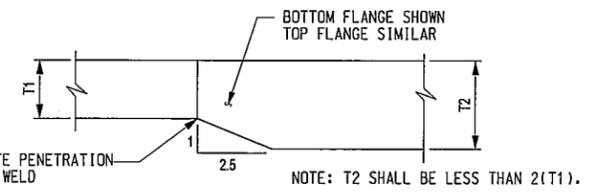
PARTIAL PLAN AT ABUTMENT & PIERS
N.T.S.



DRIP BAR DETAIL
N.T.S.



DETAILS FOR SAFETY HANDRAIL
N.T.S.



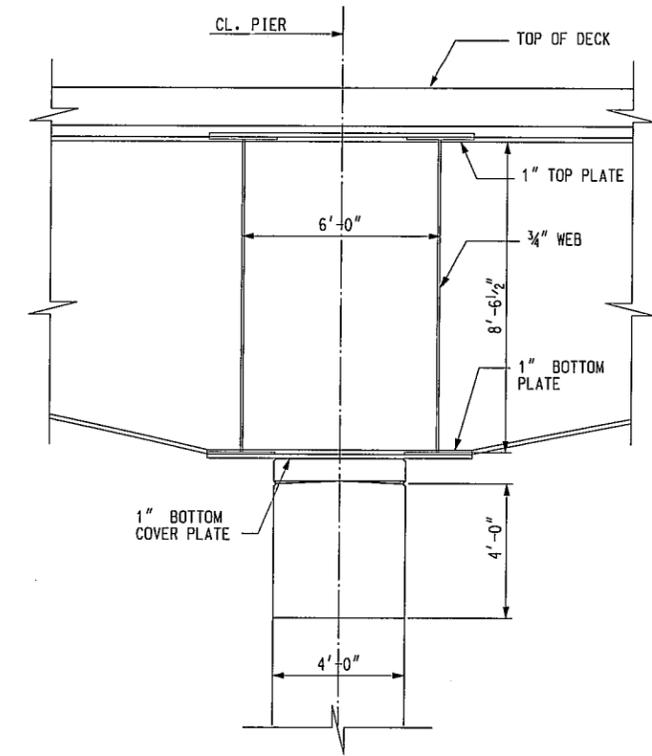
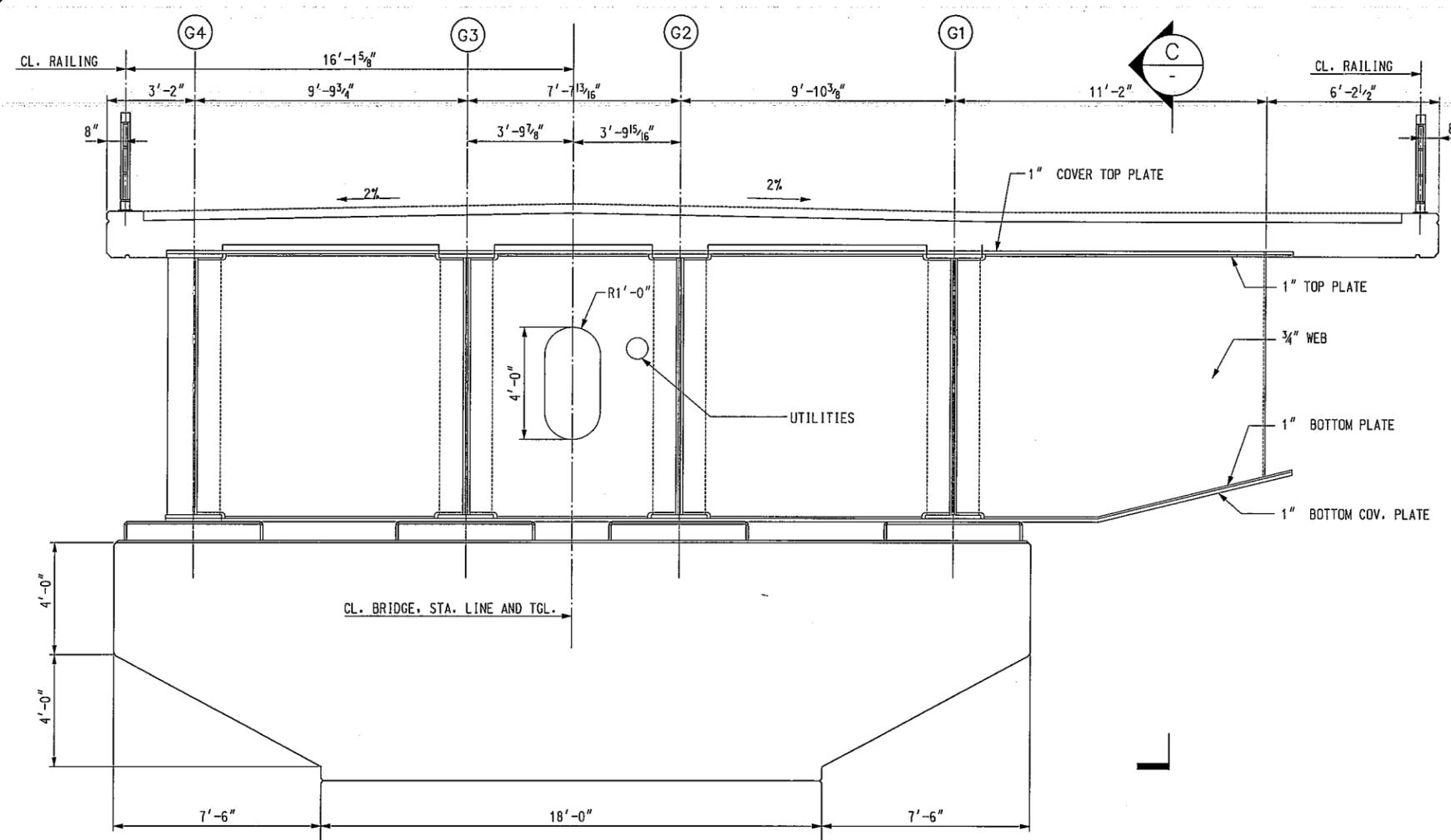
FLANGE THICKNESS TAPER
N.T.S.

ADVANCE COPY

NOTES:
NOTE A:
DISTANCE BETWEEN POINTS OF SUPPORT OF HANDRAIL SHALL NOT EXCEED 8'-0". USE CLIP ANGLES AS REQUIRED BETWEEN CONNECTION PLATES OR STIFFENERS TO ACCOMPLISH THIS. DO NOT EXTEND HANDRAIL THROUGH BEARING STIFFENERS.
WHEN UNPAINTED A588 STEEL IS USED IN THE SUPERSTRUCTURE, THE HANDRAIL SHALL BE A588.
HANDRAIL SHALL BE PLACED THROUGH INTERMEDIATE STIFFENERS, CONNECTION PLATES AND CLIP ANGLES ON BOTH SIDES OF INTERIOR GIRDERS, AND ON THE INSIDE FACE OF FASCIA GIRDERS.
THE COST OF FURNISHING AND PLACING THE BARS, BAR SPLICES, MECHANICAL COUPLERS, H.S. BOLTS AND CLIP ANGLES SHALL BE PAID FOR UNDER THE STRUCTURAL STEEL ITEM.
WELDED SPLICES OR MECHANICAL SPLICES MAY BE USED. MECHANICAL SPLICES SHALL BE USED IN ACCORDANCE WITH THE REQUIREMENTS OF 709-10, MECHANICAL CONNECTORS FOR REINFORCING BAR SPLICES. SPLICES MADE WITH MECHANICAL CONNECTORS SHALL BE A THREADED TYPE AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN REQUIREMENTS.
IF THE CONTRACTOR CHOOSES PRESTRESSED CONCRETE FORM UNITS AS THE STRUCTURAL SLAB FORMING SYSTEM, THE LOCATION OF THE STUD SHEAR CONNECTORS SHALL BE MODIFIED.
PLACE BROWN COLOR SILICONE SEALER BETWEEN DRIP BARS AND FLANGE AND WEB PRIOR TO BOLTING. BARS BELOW FLANGE SHALL BE LONGER THAN THOSE ABOVE SO AS TO TOUCH AT C OF GIRDER.
DRIP BARS SHALL BE ATTACHED TO THE LOW END OF FASCIA GIRDERS. DRIP BARS ARE TO BE USED ON A588 GIRDERS ONLY AND PAID FOR UNDER THE STRUCTURAL STEEL ITEM. FOR GRADES OVER 5%, A SECOND SET OF DRIP BARS SHALL BE ADDED 3'-0" FROM CL. OF BEARINGS.
DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

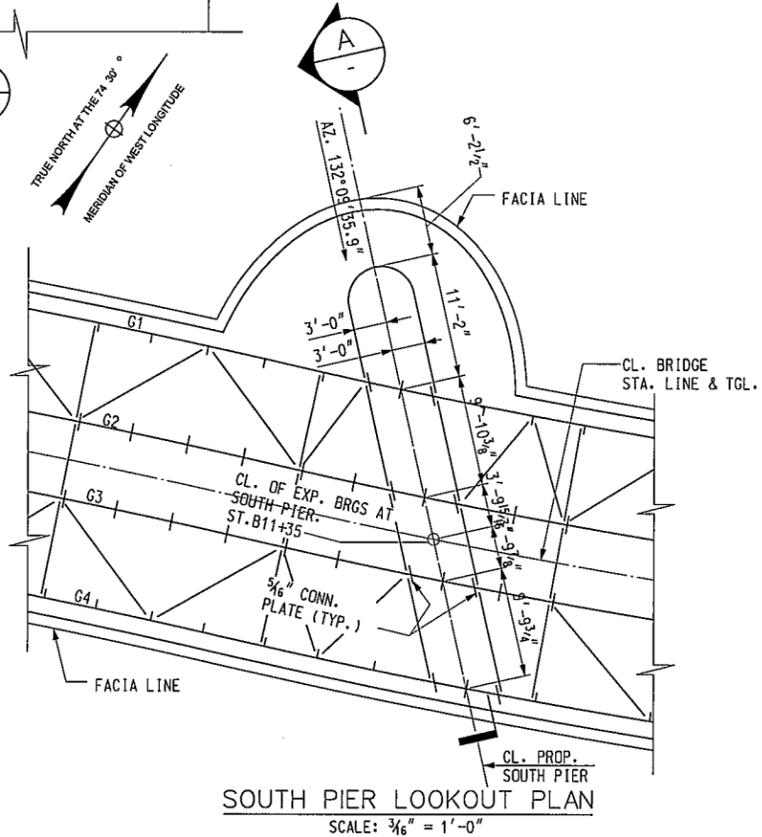
PREPARED BY: AMMAN WILLY			
Engineering and Land Surveying, P.C. 1533 Crescent Road - Clifton Park, NY 12065			
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 288 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING MISCELLANEOUS STEEL DETAILS AND SCHEMATIC LAYOUT			
CONTRACT NUMBER: A94067		DRAWING NUMBER: ST-30	
FILE NAME:			

CHECKED BY:
DRAFTED BY:
DESIGNED BY:
IN CHARGE OF:

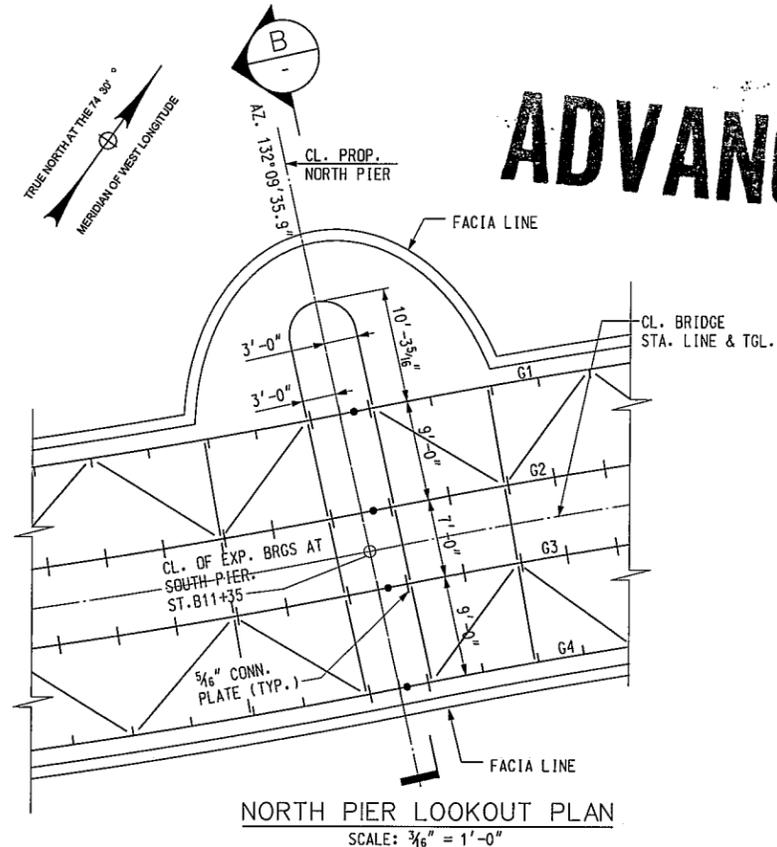


SECTION A
SCALE: 3/8" = 1'-0"
(SECTION B SIMILAR)

SECTION C
SCALE: 3/8" = 1'-0"



SOUTH PIER LOOKOUT PLAN
SCALE: 3/16" = 1'-0"



NORTH PIER LOOKOUT PLAN
SCALE: 3/16" = 1'-0"

ADVANCE COPY

PREPARED BY: AMMAN WILLEY			
DATE			
DESCRIPTION			
BY			
SYM.			
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 280 SOUTHERN BLVD., ALBANY, N.Y. 12289			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING PROPOSED FRAMING PLAN			
CONTRACT NUMBER: A94067		DATE: OCT 01, 2012	
DRAWING NUMBER: ST-31			

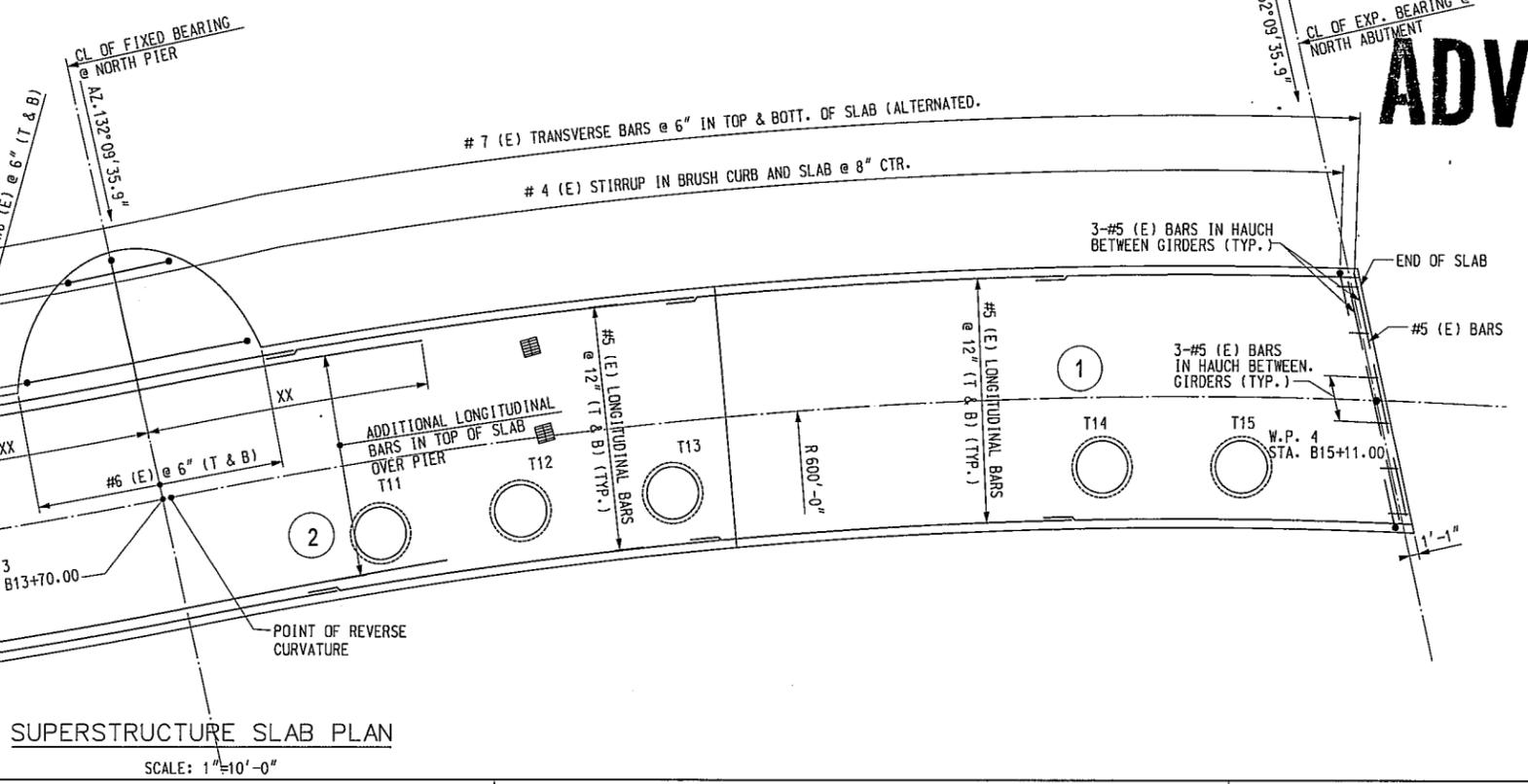
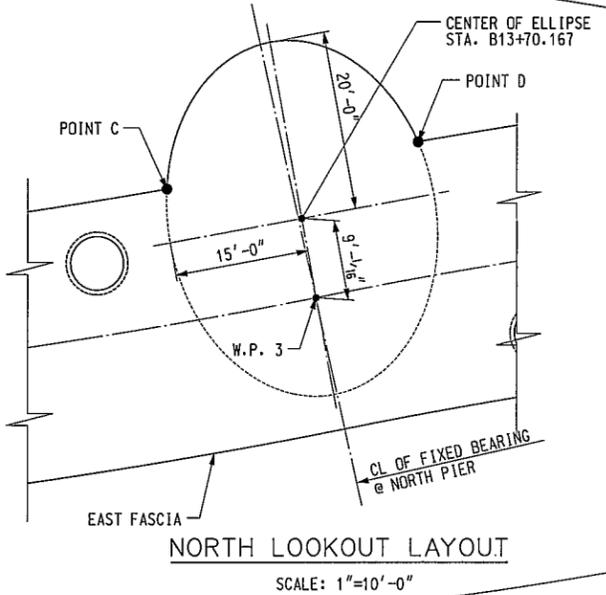
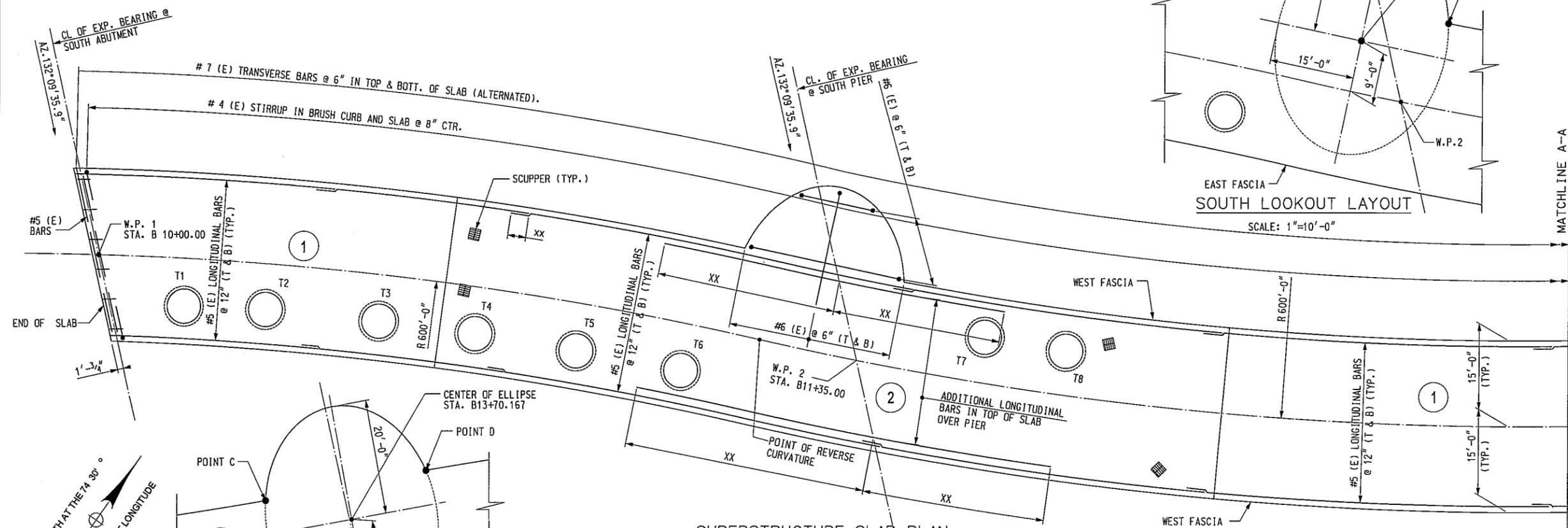
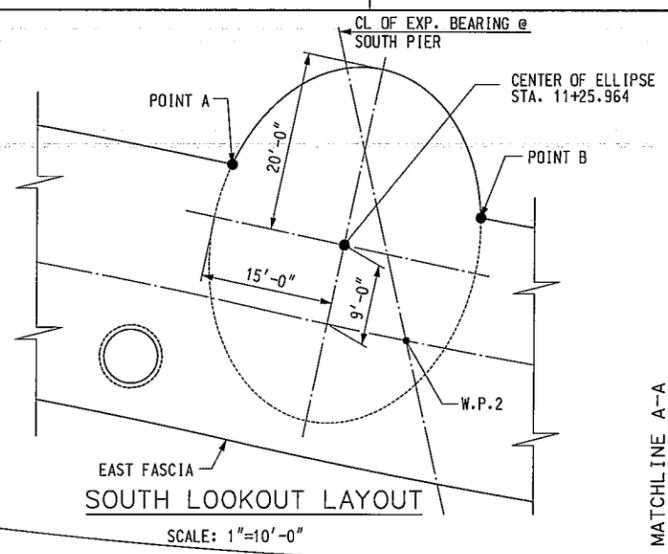
IN CHARGE OF: _____
 DESIGNED BY: _____
 DRAFTED BY: _____
 CHECKED BY: _____

XXX

LEGEND:
① = POUR NUMBER

REFERENCE:
1. WORKING POINT LAYOUT ST-05
2. MISCELLANEOUS DETAILS ST-35
3. BAR LIST ST-37
4. HAUNCH TABLE ST-30

NOTES:
1. FOR DECK OPENING LAYOUT SEE REF. 2.
2. FOR TYPICAL END DIAPHRAGM DETAIL. SEE REF. 4.



ADVANCE COPY

CHECKED BY: _____
DRAFTED BY: _____
DESIGNED BY: _____
IN CHARGE OF: _____

PREPARED BY:
AMMAN & WHITNEY

Engineering and
Surveying P.C.
100 West 10th Street
Albany, N.Y. 12209

DATE	DESCRIPTION	BY	SYM.

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
NEW PEDESTRIAN BRIDGE
OVER THE MOHAWK RIVER

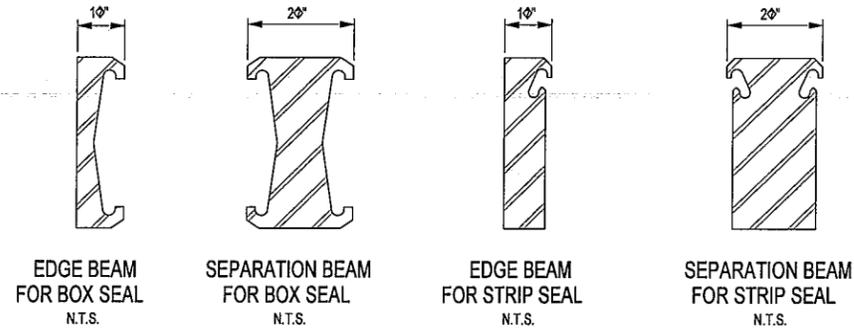
LOCATION OF PROJECT
MONTGOMERY COUNTY
CITY OF AMSTERDAM

TITLE OF DRAWING
PROPOSED FRAMING PLAN

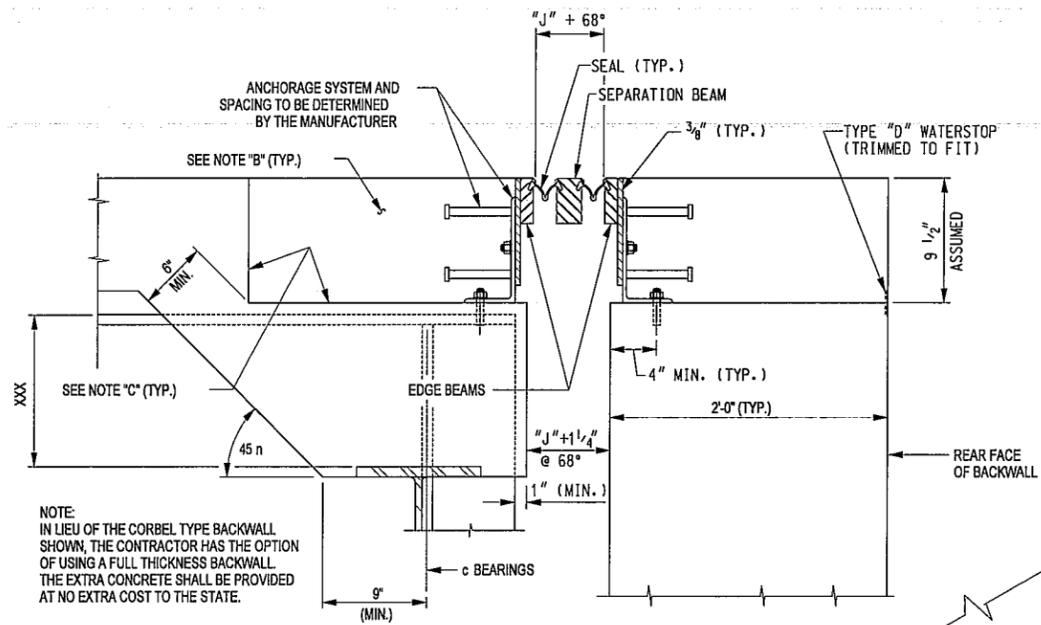


CONTRACT NUMBER:
A94067
DATE:
OCT 01, 2012
DRAWING NUMBER:
ST-32

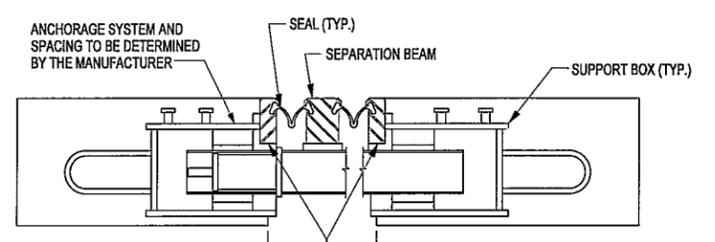
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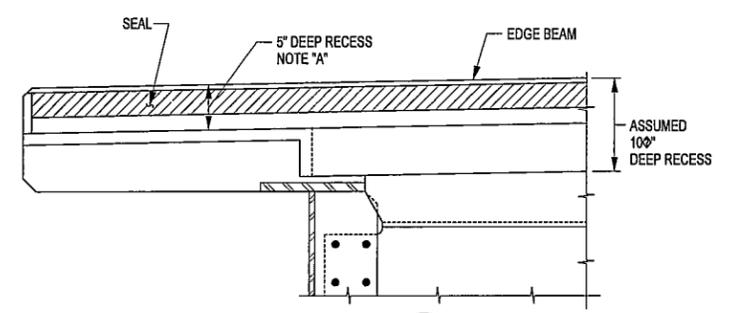
NOTE:
COVER PLATES SHALL BE INSTALLED WITH THE EDGE OF THE RECESS ON THE BOLTED SIDE TO ALLOW CLEARANCE DURING BRIDGE TEMPERATURE EXPANSION.



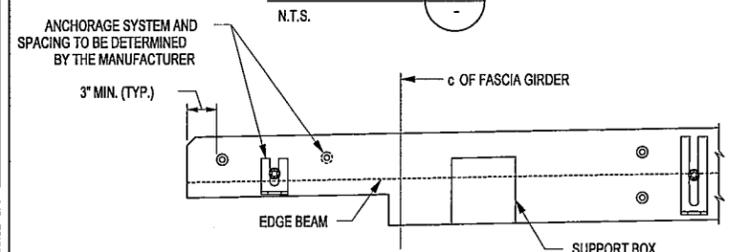
SECTION A
N.T.S.



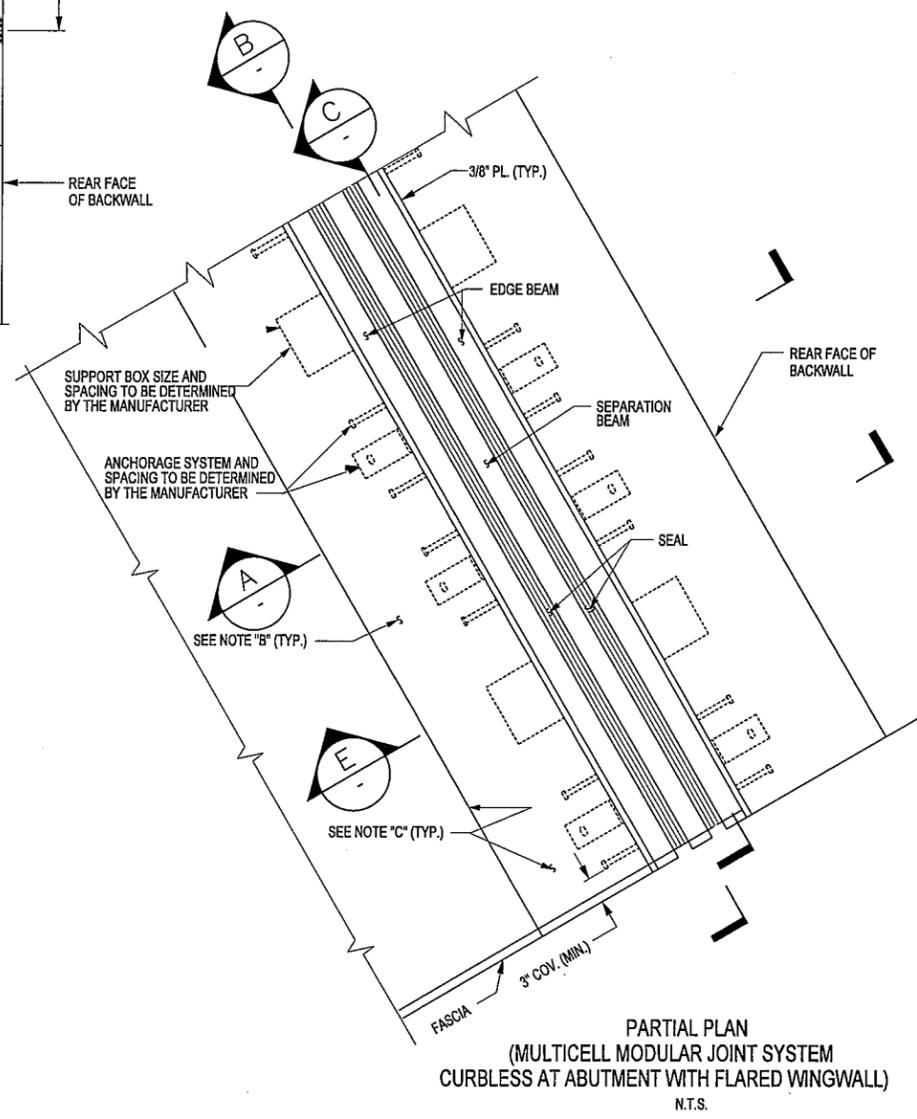
SECTION E
N.T.S.
(HEADER ONLY SHOWN FOR CLARITY)



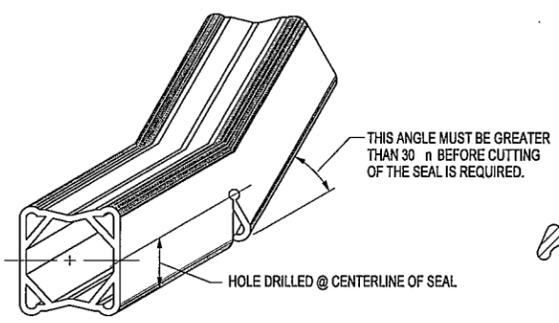
SECTION B
N.T.S.



SECTION C
N.T.S.
(ONLY THE STEEL SHOWN)



PARTIAL PLAN
(MULTICELL MODULAR JOINT SYSTEM
CURBLESS AT ABUTMENT WITH FLARED WINGWALL)
N.T.S.



DETAIL FOR CUTTING BOX SEAL
N.T.S.



STRIP SEAL
N.T.S.

NOTE:
ALL CUTTING TO BE DONE WITH A COPING SAW, SOAP AND WATER.

NOTE "A"

WITH THE EXCEPTION OF SUPERSTRUCTURES WITH SIDEWALKS, THERE IS NOT SUFFICIENT DEPTH OF SLAB OUTSIDE OF THE FASCIA GIRDERS TO ACCOMMODATE A SUPPORT BOX. THE JOINT MANUFACTURER SHALL SUPPLY AN ALTERNATIVE SUPPORT MECHANISM THAT SHALL REQUIRE NO MORE THAN A 5" DEEP BLOCKOUT IN THE OVERHANG REGIONS.

NOTE "B"

THE CONCRETE FURNISHED AND PLACED IN THE RECESSES FOR INSTALLING THE JOINT SYSTEM SHALL COMPLY WITH THE SPECIFICATIONS FOR THE CURRENT SLAB ITEM, EXCEPT THAT MACHINE FINISHING WILL NOT BE REQUIRED. THE COST FOR FURNISHING AND PLACING THIS CONCRETE SHALL BE INCLUDED IN THE UNIT PRICE OF THE SLAB ITEM.

NOTE "C"

PREPARE EXISTING SURFACES IN ACCORDANCE WITH STANDARD SPECIFICATION 566-3.03.

NOTE:

IT IS DESIRABLE TO HAVE THE MODULAR JOINT WITH ITS SEAL ASSEMBLED IN THE SHOP AND DELIVERED TO THE JOB SITE ALL SET FOR INSTALLATION IN ITS PREFORMED RECESS IN THE STRUCTURAL SLAB. IN CASES WHERE THE JOINT CANNOT BE ASSEMBLED IN THE SHOP, DUE TO ITS EXCESSIVE LENGTH CAUSING SHIPPING PROBLEMS, THE JOINT SHALL HAVE THE SEAL IN PLACE BEFORE THE STRUCTURE IS OPENED TO TRAFFIC, INCLUDING CONSTRUCTION TRAFFIC, AND BEFORE DISCONTINUING OPERATION WHEN WORK IS SUSPENDED DURING THE WINTER.

MODULAR JOINT SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL JOINT SUPPLIED MAY VARY SIGNIFICANTLY FROM THE ONE SHOWN HERE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST ALL REQUIRED DIMENSIONS IN THE FIELD, BASED ON FIELD VERIFIED DIMENSIONS, TO ACCOMMODATE THE ACTUAL MODULAR JOINT SUPPLIED.

STRIP SEAL OR BOX SEAL MAY BE USED AT THE CONTRACTOR'S OPTION.

THE SUPPLIER OF THE JOINT SYSTEM MUST BE ON THE NYSDOT APPROVED LIST.

THE ASSUMED DIMENSIONS OF THE BLOCKOUT (DEPTH AND WIDTH) ARE PLACED ON THE PLANS. IF THE JOINT SYSTEM SUPPLIED BY THE FABRICATOR/CONTRACTOR REQUIRES A CHANGE TO THE BLOCKOUT SIZE OR SUPPORT SYSTEM (I.E. END DIAPHRAGM, ETC.) DETAILED IN THE PLANS, THAT CHANGE TO THE BLOCKOUT OR SUPPORT SYSTEM SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE CHANGES TO THE BLOCKOUT OR SUPPORT SYSTEM AS A RESULT OF THE SUPPLIED JOINT SYSTEM.

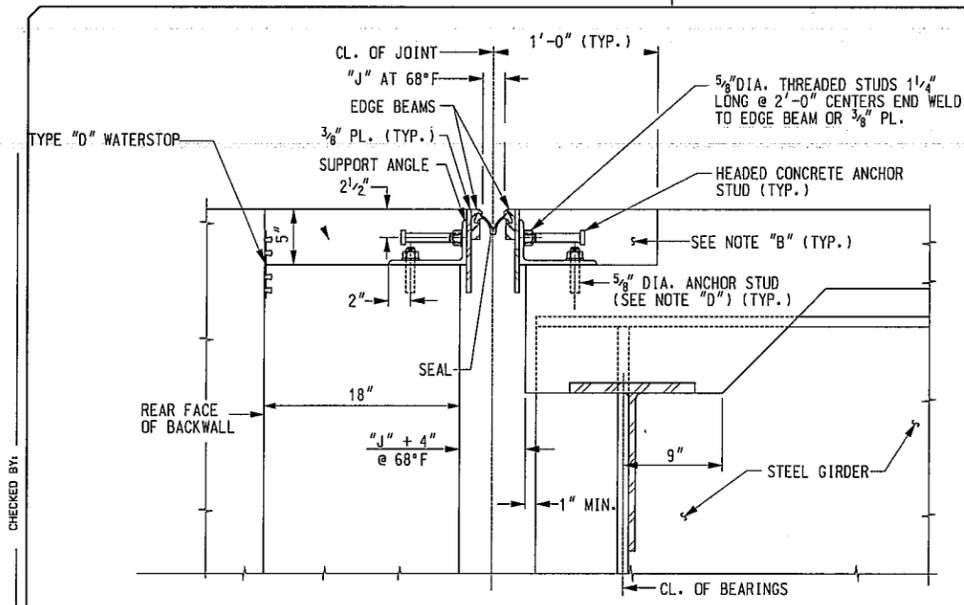
ENDS OF BOX SEAL TO BE CAPPED WITH NEOPRENE SPONGE.

CAULKING COMPOUND FOR STRUCTURES CONFORMING TO N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 705-06 SHALL BE USED TO SEAL BETWEEN THE CURB AND THE ϕ PLATE. COST TO BE INCLUDED IN THE UNIT PRICE FOR THE CURB ITEM.

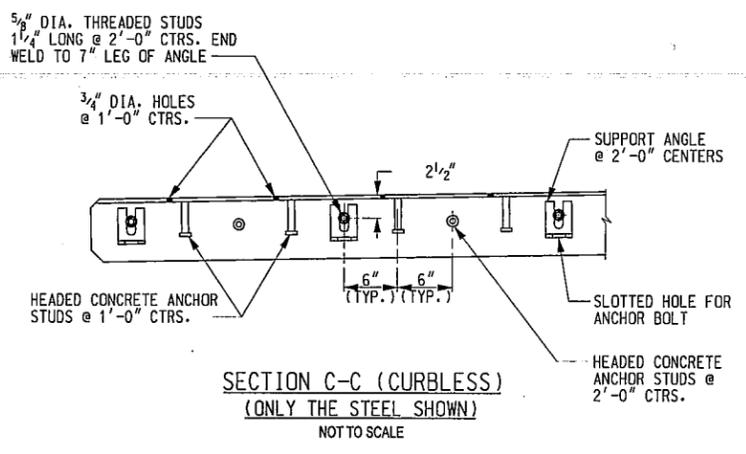
DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

ADVANCE COPY

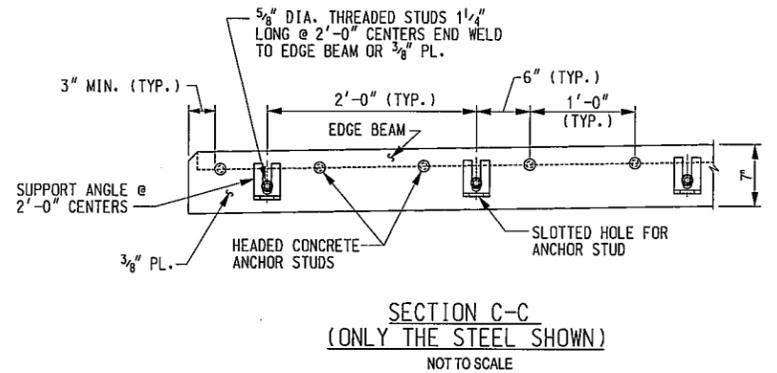
PREPARED BY AMANN WITNEY			
DATE	DESCRIPTION	BY	SYN.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12289			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING MODULAR MULTICELL JOINT SYSTEM AT SOUTH ABUTMENT			
		CONTRACT NUMBER: A94067	
		DATE: OCT 01, 2012	
		DRAWING NUMBER: ST-33	



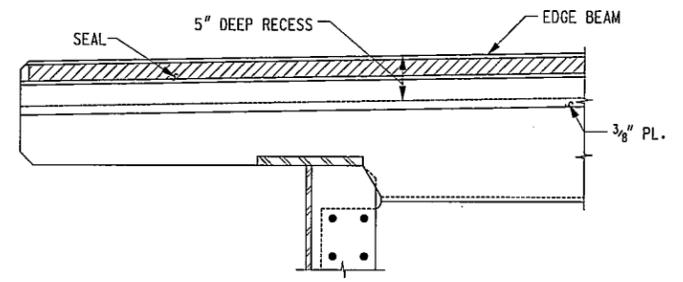
SECTION A
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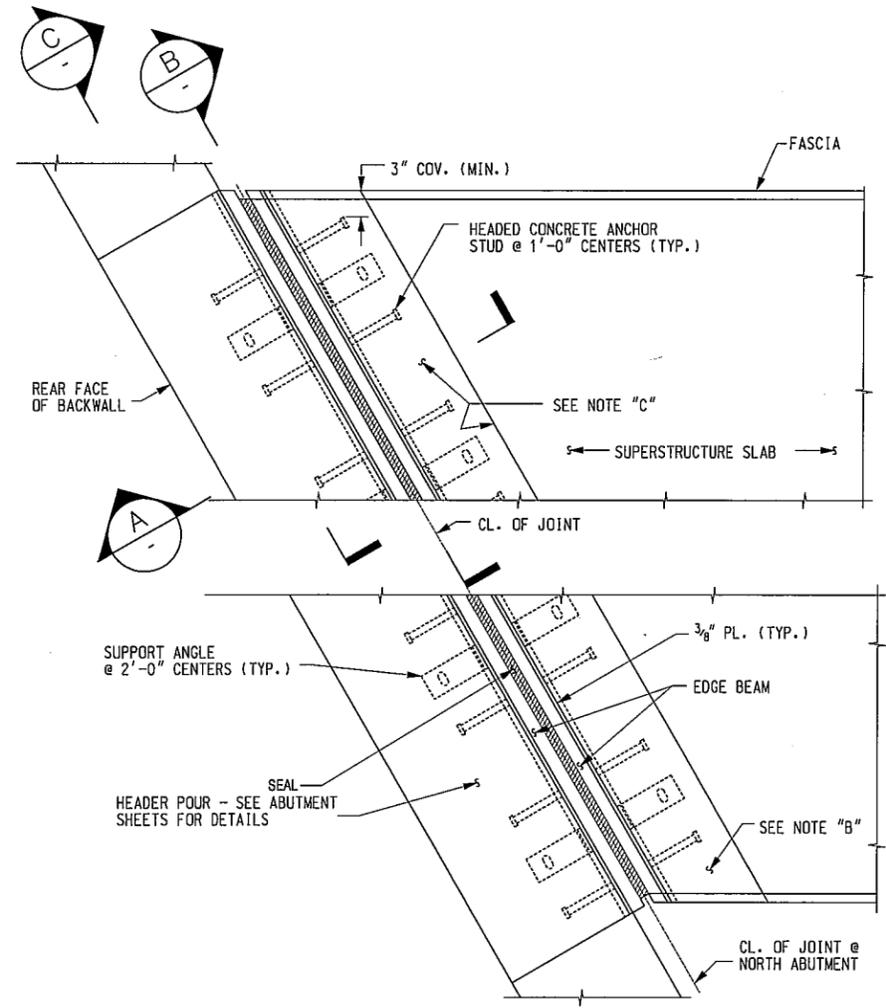
SECTION C-C (CURBLESS)
(ONLY THE STEEL SHOWN)
NOT TO SCALE



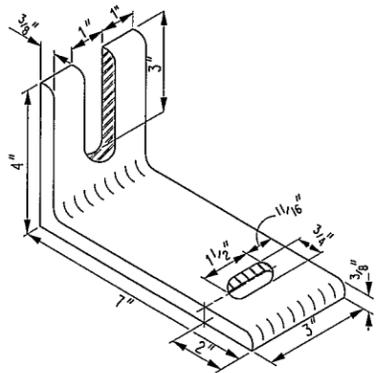
SECTION C-C
(ONLY THE STEEL SHOWN)
NOT TO SCALE



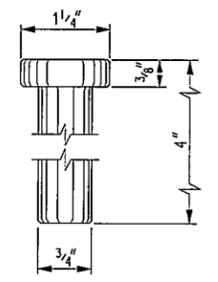
SECTION B
NOT TO SCALE



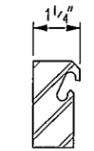
NORTH ABUTMENT PARTIAL PLAN
NOT TO SCALE



DETAIL OF SUPPORT ANGLE
(ASTM A36)
NOT TO SCALE



DETAIL OF HEADED CONCRETE ANCHOR STUD
NOT TO SCALE



EDGE BEAM FOR STRIP SEAL
NOT TO SCALE



STRIP SEAL
NOT TO SCALE

NOTE "B"

THE CONCRETE FURNISHED AND PLACED IN THE RECESSES FOR INSTALLING THE JOINT SYSTEM SHALL COMPLY WITH THE SPECIFICATIONS FOR THE CURRENT SLAB ITEM, EXCEPT THAT MACHINE FINISHING WILL NOT BE REQUIRED. THE COST FOR FURNISHING AND PLACING THIS CONCRETE SHALL BE INCLUDED IN THE UNIT PRICE OF THE SLAB ITEM.

NOTE "C"

PREPARE EXISTING SURFACES IN ACCORDANCE WITH STANDARD SPECIFICATION 566-3.03.

NOTE "D"

*" DIA. ANCHOR STUD TO BE DRILLED AND GROUTED IN PLACE IN ACCORDANCE WITH THE REQUIREMENTS OF SUBSECTION 586-3.02. GROUTING MATERIALS SHALL BE IN ACCORDANCE WITH MATERIALS SUBSECTION 701-07, ANCHORING MATERIALS-CHEMICALLY CURING. HOLES TO BE DRILLED TO THE DIAMETER AND DEPTH RECOMMENDED BY THE MANUFACTURER OF THE GROUTING MATERIAL (MIN. DEPTH OF 4"). THE COST OF THE ANCHORS, INCLUDING DRILLING AND GROUTING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE JOINT SYSTEM ITEM.

NOTES:

IT IS DESIRABLE TO HAVE THE MODULAR JOINT WITH ITS SEAL ASSEMBLED IN THE SHOP AND DELIVERED TO THE JOB SITE ALL SET FOR INSTALLATION IN ITS PREFORMED RECESS IN THE STRUCTURAL SLAB. IN CASES WHERE THE JOINT CANNOT BE ASSEMBLED IN THE SHOP, DUE TO ITS EXCESSIVE LENGTH CAUSING SHIPPING PROBLEMS, THE JOINT SHALL HAVE THE SEAL IN PLACE BEFORE THE STRUCTURE IS OPENED TO TRAFFIC, INCLUDING CONSTRUCTION TRAFFIC, AND BEFORE DISCONTINUING OPERATION WHEN WORK IS SUSPENDED DURING THE WINTER.

MODULAR JOINT SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL JOINT SUPPLIED MAY VARY SIGNIFICANTLY FROM THE ONE SHOWN HERE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST ALL REQUIRED DIMENSIONS IN THE FIELD, BASED ON FIELD VERIFIED DIMENSIONS, TO ACCOMMODATE THE ACTUAL MODULAR JOINT SUPPLIED. STRIP SEAL OR BOX SEAL MAY BE USED AT THE CONTRACTOR'S OPTION.

THE ASSUMED DIMENSIONS OF THE BLOCKOUT (DEPTH AND WIDTH) ARE PLACED ON THE PLANS. IF THE JOINT SYSTEM SUPPLIED BY THE FABRICATOR/CONTRACTOR REQUIRES A CHANGE TO THE BLOCKOUT SIZE OR SUPPORT SYSTEM (I.E. END DIAPHRAGM, ETC.) DETAILED IN THE PLANS, THAT CHANGE TO THE BLOCKOUT OR SUPPORT SYSTEM SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE CHANGES TO THE BLOCKOUT OR SUPPORT SYSTEM AS A RESULT OF THE SUPPLIED JOINT SYSTEM.

ENDS OF BOX SEAL TO BE CAPPED WITH NEOPRENE SPONGE.

CAULKING COMPOUND FOR STRUCTURES CONFORMING TO N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 705-06 SHALL BE USED TO SEAL BETWEEN THE CURB AND THE *" PLATE. COST TO BE INCLUDED IN THE UNIT PRICE FOR THE CURB ITEM.

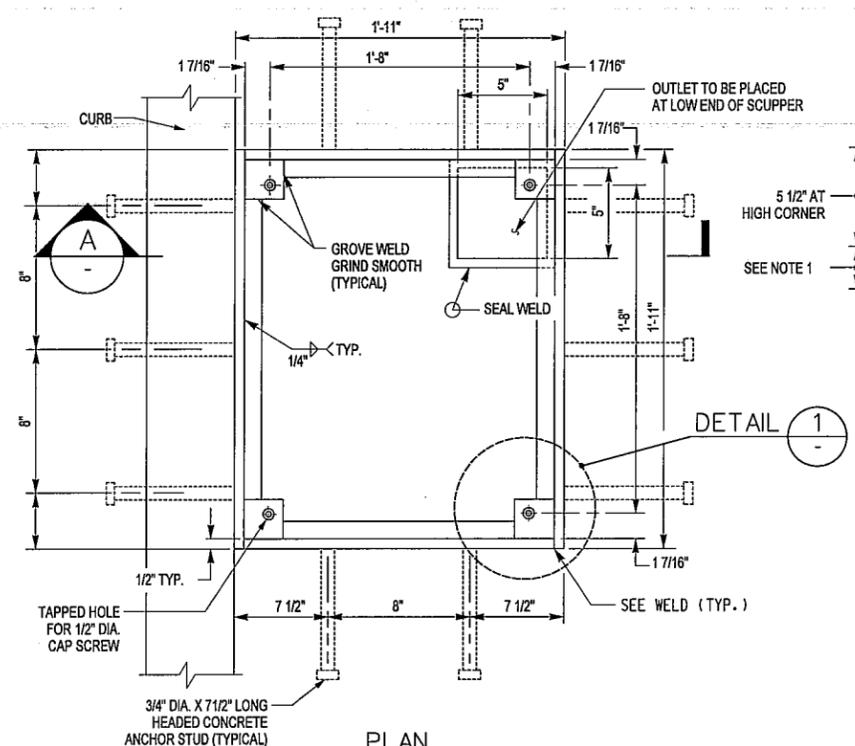
DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

ADVANCE COPY

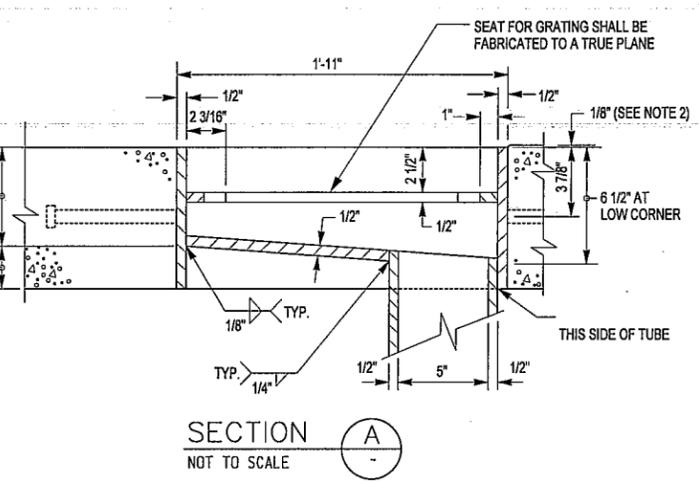
PREPARED BY: AMMANITY			
DATE	DESCRIPTION	BY	SYN.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING MODULAR JOINT SYSTEM WITH STRIP SEAL AT NORTH ABUTMENT			
		CONTRACT NUMBER: A94067	
		DATE: OCT 01, 2012	
		DRAWING NUMBER: ST-34	

XXX

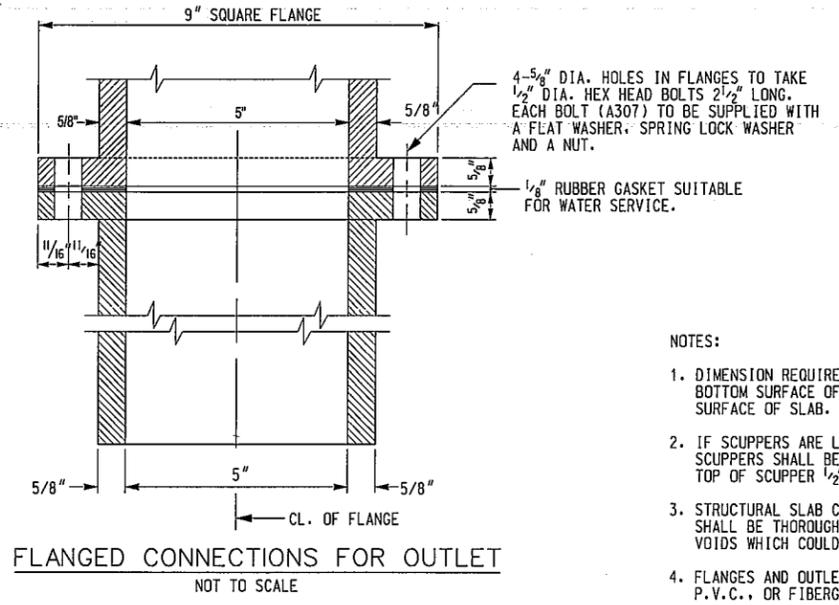
LEGEND:
 (1) = POUR NUMBER
REFERENCE:
 1. WORKING POINT LAYOUT ST-05



PLAN
NOT TO SCALE

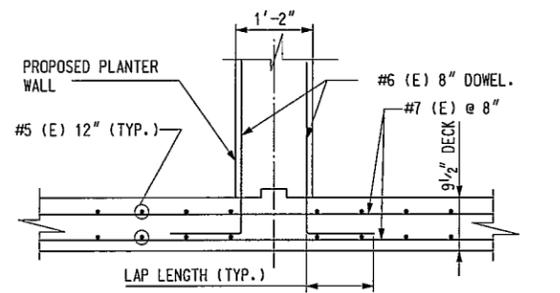


SECTION A
NOT TO SCALE

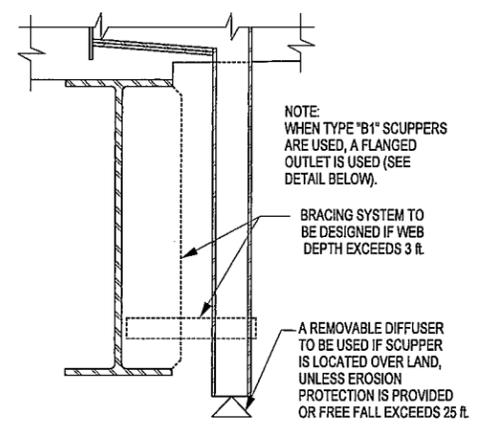


FLANGED CONNECTIONS FOR OUTLET
NOT TO SCALE

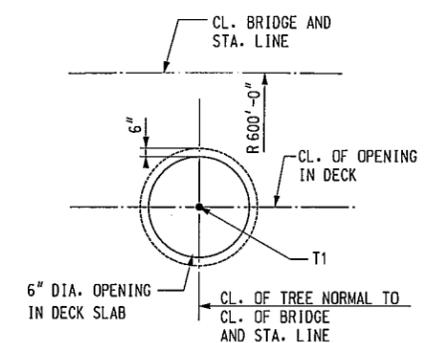
- NOTES:**
- DIMENSION REQUIRED TO LOCATE BOTTOM OF SCUPPER FLUSH TO BOTTOM SURFACE OF SLAB AND TOP OF SCUPPER 1/2" BELOW TOP SURFACE OF SLAB.
 - IF SCUPPERS ARE LOCATED IN HAUNCH AREAS ABOVE BEAMS, THE SCUPPERS SHALL BE BLOCKED UP OFF THE FORMS SO AS TO LOCATE TOP OF SCUPPER 1/2" BELOW TOP SURFACE OF SLAB AS SHOWN.
 - STRUCTURAL SLAB CONCRETE IMMEDIATELY ADJACENT TO SCUPPERS SHALL BE THOROUGHLY VIBRATED DURING PLACEMENT TO ELIMINATE VOIDS WHICH COULD RESULT IN PREMATURE CONCRETE DETERIORATION.
 - FLANGES AND OUTLET SHALL BE DUCTILE IRON AND GALVANIZED, P.V.C., OR FIBERGLASS.
 - FLANGED CONNECTION IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE SCUPPER.
 - DOWNSPOUT TO BE EXTENDED 1'-0" BELOW THE BOTTOM OF BOTTOM FLANGE. COST TO BE INCLUDED IN THE PRICE BID FOR THE SCUPPER ITEM.
 - ALL MATERIAL SHALL BE GALVANIZED IN ACCORDANCE WITH N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 719-01.
 - THE SCUPPER MAY BE ROTATED 180° IF THE LOCATION OF THE OUTLET PIPE AS SHOWN WILL INTERFERE WITH OR DRAIN ON ANY PORTION OF THE SUPERSTRUCTURE GIRDERS OR FRAMING.



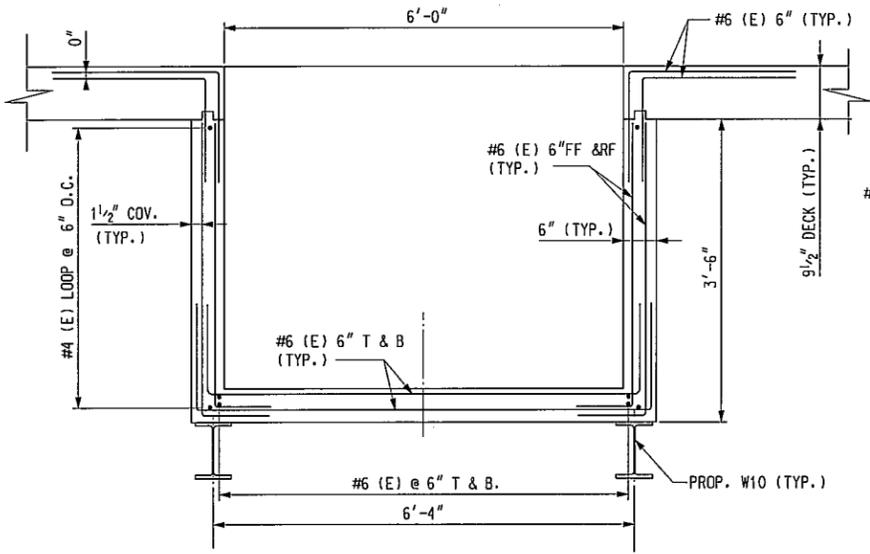
TYPICAL PLANTER WALL REINFORCEMENT IN DECK
SCALE: 3/4" = 1'-0"



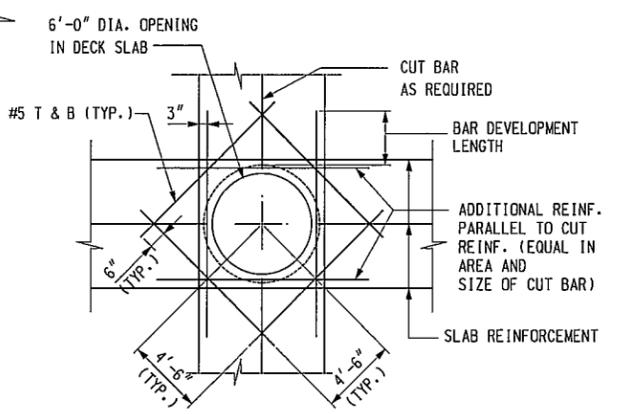
DETAILS OF SPILL AREA FOR SCUPPERS
NOT TO SCALE



DECK OPENING LAYOUT
SCALE: 3/16" = 1'-0"



TYPICAL TREE PIT REINFORCEMENT
SCALE: 3/4" = 1'-0"
NOTE: DECK REINFORCEMENT NOT SHOWN FOR CLARITY



TYPICAL REINFORCEMENT AROUND OPENING IN DECK
SCALE: 3/16" = 1'-0"

DECK OPENING LAYOUT		
OPENING NO.	STATIONING	OFFSET
T1	B10+15.521	8'-0" RT.
T2	B10+30.234	8'-0" RT.
T3	B10+50.516	8'-0" RT.
T4	B10+68.990	8'-0" RT.
T5	B10+87.901	8'-0" RT.
T6	B11+07.672	8'-0" RT.
T7	B11+56.703	8'-0" LT.
T8	B11+72.490	8'-0" LT.
T9	B13+28.036	8'-0" LT.
T10	B13+46.229	8'-0" LT.
T11	B13+94.078	8'-0" RT.
T12	B14+10.974	8'-0" RT.
T13	B14+28.625	8'-0" RT.
T14	B14+80.964	8'-0" RT.
T15	B14+95.193	8'-0" RT.

NOTE: RT = RIGHT, LT = LEFT

ADVANCE COPY

PREPARED BY:
AMERICAN SURVEYING

Engineering and Land Surveying, P.C.
 1533 Cypriot Road - Clifton Park, NY 12005

DATE	DESCRIPTION	BY	SYL
REVISIONS			

NEW YORK STATE THRUWAY AUTHORITY
 DEPARTMENT OF ENGINEERING
 200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
 NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER

LOCATION OF PROJECT
 MONTGOMERY COUNTY CITY OF AMSTERDAM

TITLE OF DRAWING
 MISCELLANEOUS DETAILS

CONTRACT NUMBER:
 A94067

DATE:
 OCT 01, 2012

DRAWING NUMBER:
 ST-35

LIST OF STANDARD DRAWINGS	
SHEET NO.	DRAWING TITLE
203-01	CONSTRUCTION DETAILS UNSUITABLE MATERIAL EXCAVATION AND BACKFILL
203-02	EARTHWORK TRANSITION AND BENCHING DETAILS
203-04	INSTALLATION DETAILS FOR REINFORCED CONCRETE PIPES
209-01	LINEAR MEASURES
209-02	CHECK DAMS (SHEET 1 OF 2)
209-02	CHECK DAMS (SHEET 2 OF 2)
209-05	CONSTRUCTION ENTRANCES
502-01	METAL REINFORCEMENT FOR CONCRETE PAVEMENT
502-02	TYPICAL PLAN, CROSS SECTION AND JOINT LAYOUT
502-03	LONGITUDINAL JOINTS
502-04	LONGITUDINAL JOINT TIES
502-05	LONGITUDINAL JOINT SAWING AND SEALING
502-06	TRANSVERSE JOINTS
502-07	TRANSVERSE JOINT SAWING AND SEALING
502-08	UTILITY ISOLATION AND JOINT LAYOUT GENERAL NOTES
502-09	UTILITY ISOLATION GUIDELINES
554-01	PROPRIETARY FILL TYPE RETAINING WALLS - SHEET 1 OF 5
	PROPRIETARY FILL TYPE RETAINING WALLS - SHEET 2 OF 5
	PROPRIETARY FILL TYPE RETAINING WALLS - SHEET 3 OF 5
	PROPRIETARY FILL TYPE RETAINING WALLS - SHEET 4 OF 5
	PROPRIETARY FILL TYPE RETAINING WALLS - SHEET 5 OF 5
603-01	REINFORCED CONCRETE PIPE END SECTIONS AND CONCRETE COLLARS
604-02	DRAINAGE STRUCTURE DETAILS (SHEET 1 OF 4)
	DRAINAGE STRUCTURE DETAILS (SHEET 2 OF 4)
	DRAINAGE STRUCTURE DETAILS (SHEET 3 OF 4)
	DRAINAGE STRUCTURE DETAILS (SHEET 4 OF 4)
609-01	STONE CURB AND GRANITE CURB
611-01	LANDSCAPE PLANTING DETAILS (SHEET 1 OF 2)
	LANDSCAPE PLANTING DETAILS (SHEET 2 OF 2)
655-03	CAST MANHOLE FRAMES, GRATES AND COVERS
663-01	WATER MAIN PIPE INSTALLATION DETAILS
663-07	WATER MAIN SERVICE CONNECTION DETAILS
670-01	LAMPPOST FOUNDATIONS
670-02	LIGHT STANDARD DETAILS
685-01	PAVEMENT MARKING DETAILS (SHEET 1 OF 5)

NEW YORK STATE THRUWAY AUTHORITY
NEW YORK STATE CANAL CORPORATION

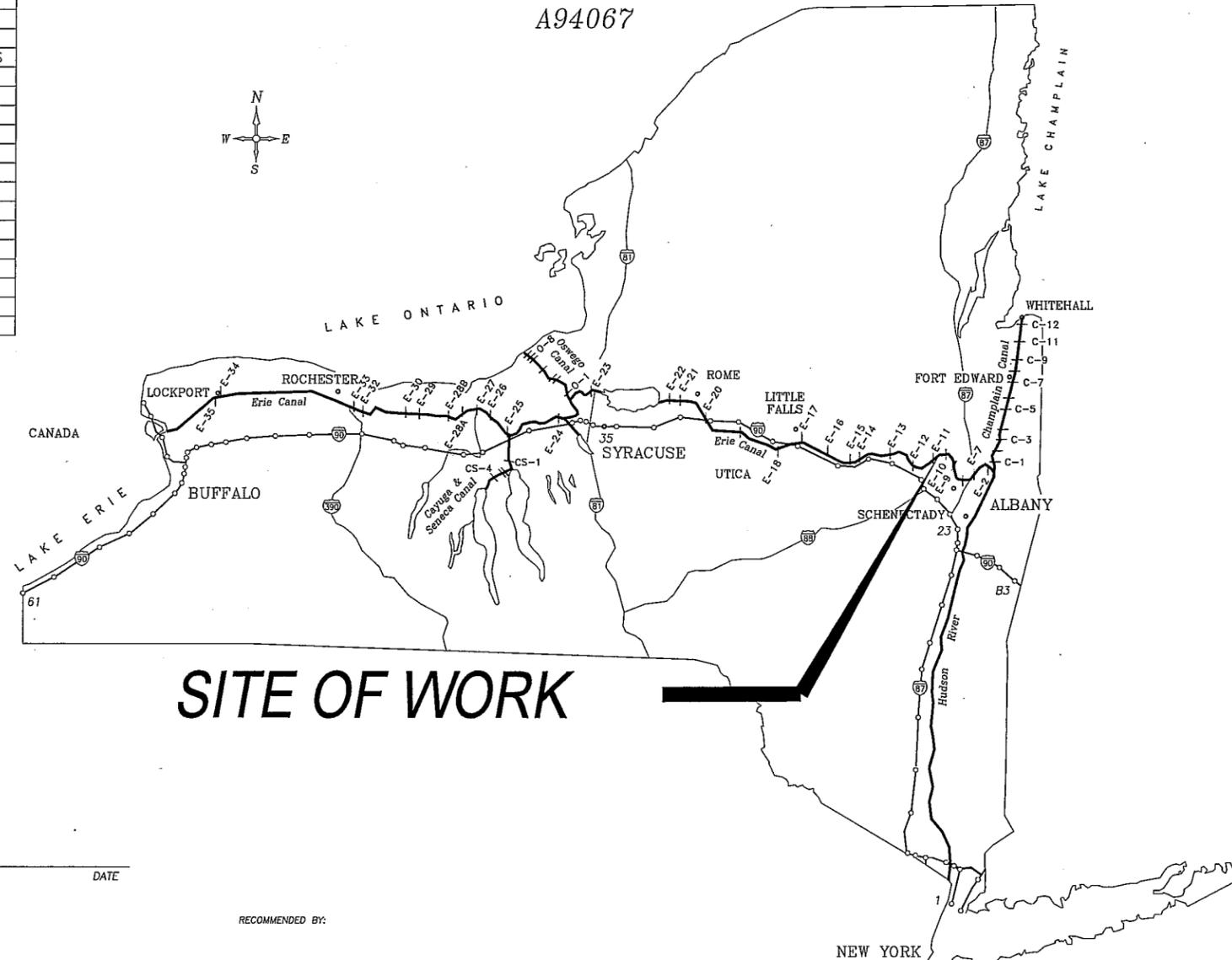


ALBANY DIVISION
PROPOSAL FOR
CONSTRUCTION
OF THE
PEDESTRIAN BRIDGE (AMSTERDAM)
AT
MILEPOST E-192.39
ON THE
ERIE CANAL
IN
MONTGOMERY COUNTY

ADVANCE COPY

SHEETS TAA 13-##C

A94067



SITE OF WORK

TYPE OF CONSTRUCTION:

NEW STEEL MULTI-GIRDER PEDESTRIAN BRIDGE, RETAINING WALLS, PAVING, LIGHTING AND WATERLINE.

STANDARD SHEETS:

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY NYSOT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS 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) LISTED BELOW UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

NOTES:

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE GOVERNED BY AND IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS - CONSTRUCTION AND MATERIALS U.S. CUSTOMARY UNITS" ADOPTED MAY 1, 2008 EXCEPT AS MODIFIED IN THESE PLANS AND BY THE PROPOSAL.

WARNING: IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THESE PLANS IN ANYWAY. IF ALTERATIONS TO THESE PLANS ARE REQUIRED, THE ALTERATIONS SHALL BE MADE IN ACCORDANCE WITH ARTICLE 145-SUBSECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

SIGNATURES HEREON HAVE BEEN AFFIXED BY PERSONS ACTING IN THEIR OFFICIAL CAPACITY AS INDICATED.

CONSULTANT PROJECT MANAGER

PROJECT MANAGER

BUREAU DIRECTOR

CONTRACTOR'S NAME: _____
 AWARD DATE: _____
 COMPLETION DATE: _____
 FINAL ACCEPTANCE DATE: _____
 INSPECTION FIRM'S NAME: _____
 RESIDENT ENG./EIC: _____
 FINAL COST TOTAL: _____

FISCAL SHARE	COST(S)

INSPECTION FIRM CONSULTANT STAMP: _____

RECOMMENDED BY: _____
 DIRECTOR, OFFICE OF DESIGN DATE _____

RECOMMENDED BY: _____
 DIVISION CANAL ENGINEER DATE _____

RECOMMENDED BY: _____
 TRAFFIC ENGINEER DATE _____

RECOMMENDED BY: _____
 DIRECTOR, OFFICE OF CONSTRUCTION MANAGEMENT DATE _____

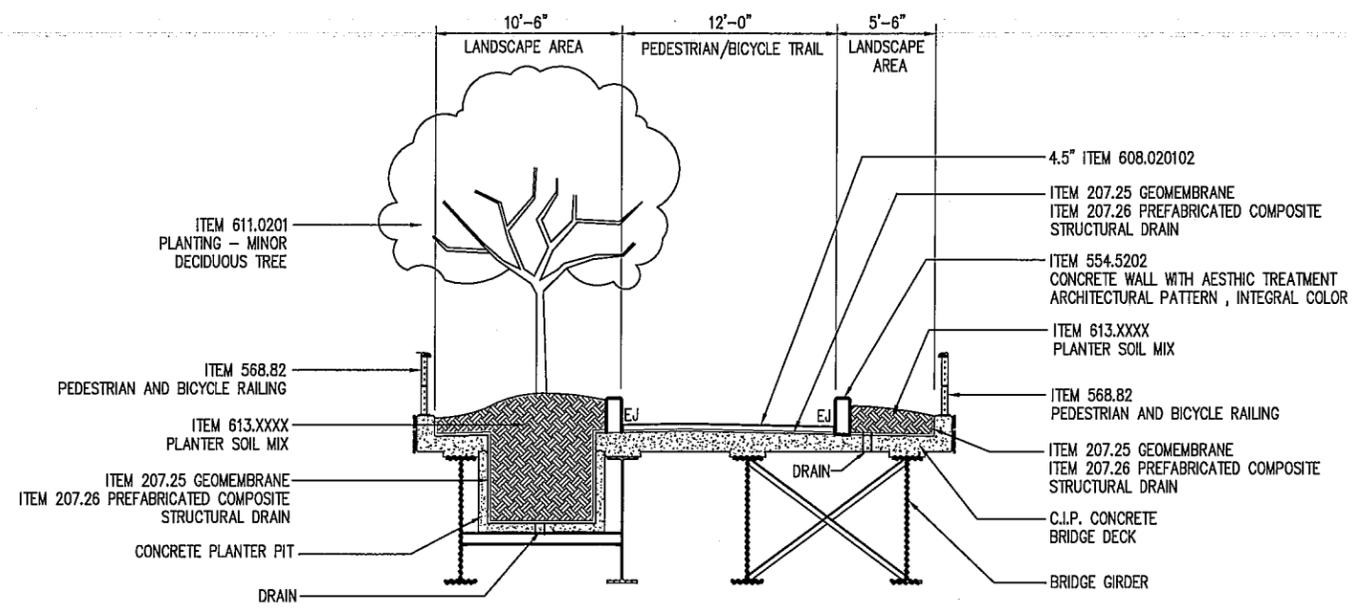
RECOMMENDED BY: _____
 DIRECTOR NEW YORK STATE CANAL CORPORATION DATE _____

RECOMMENDED BY: _____
 DIRECTOR, OFFICE OF CANAL MAINTENANCE AND OPERATIONS, NEW YORK STATE CANAL CORPORATION DATE _____

APPROVED BY: _____
 CHIEF ENGINEER DATE _____

PREPARED BY: _____
 CONSULTANT LOGO: _____

SIGNATURE: _____
 CONSULTANT STAMP: _____
 DATE: _____



SECTION ③

TYPICAL SECTION - BRIDGE

STA. B 10+60 TO STA. B 10+80
SCALE: 1"=10'

SECTION ④

TYPICAL SECTION - BRIDGE

STA. B 13+40 TO STA. B 13+60
SCALE: 1"=10'

DMS
CHECKED BY:
RJM
DRAFTED BY:
BCB, EDW
DESIGNED BY:
DMS
IN CHARGE OF:

ADVANCE COPY

ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED

SARATOGA ASSOCIATES
Landscape Architects, Planners, Engineers and Foresters, P.C.
1633 Crescent Road - Clifton Park, NY 12065

AMMANN & WHITNEY

Engineering and Land Surveying, P.C.
1633 Crescent Road - Clifton Park, NY 12065

DATE	DESCRIPTION	BY	SYM.

REVISIONS

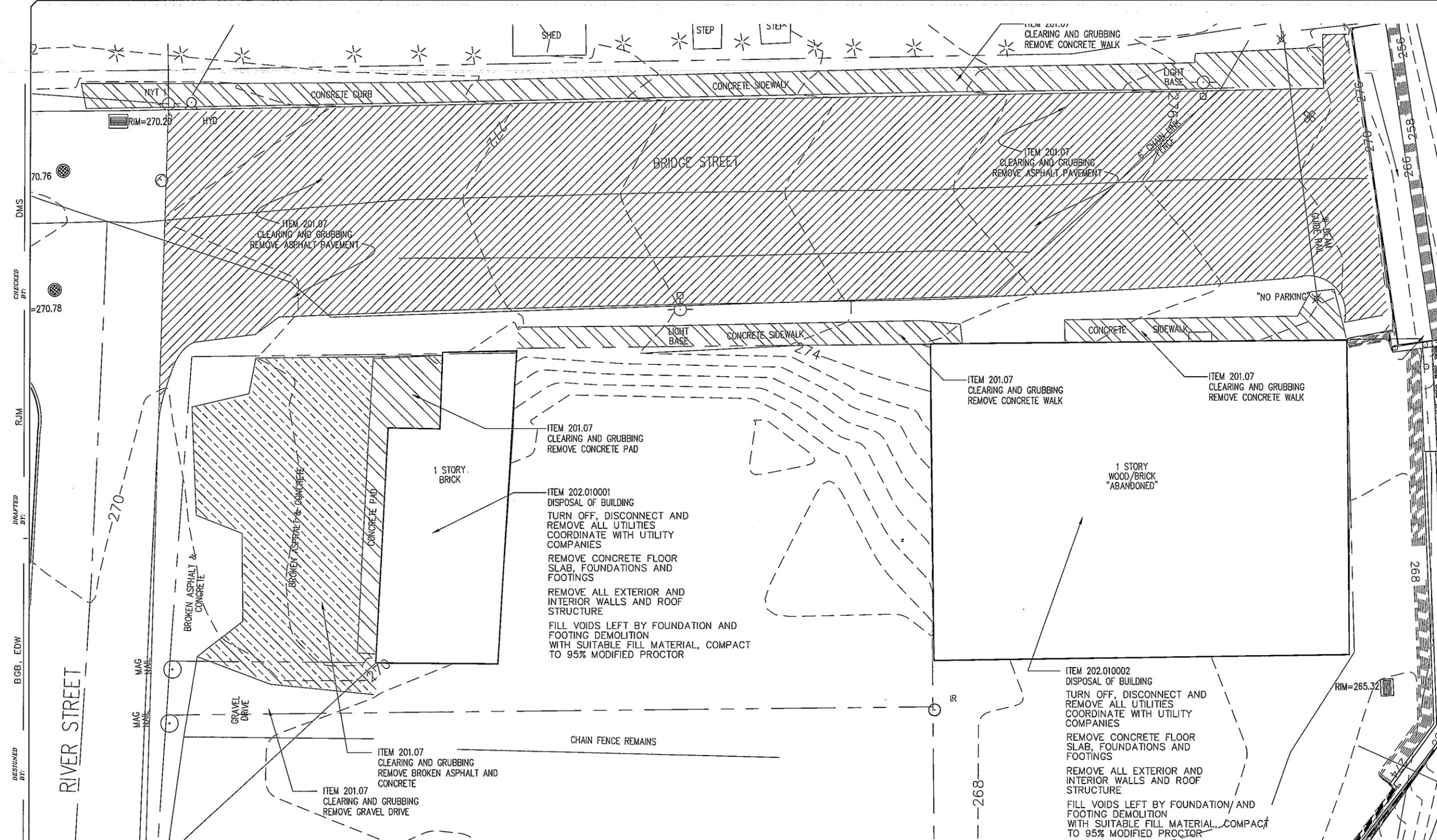
PREPARED BY: SARATOGA ASSOCIATES
ON: MARCH 2012

SIGNATURE: _____
CONSULTANT STAMP: _____

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT: NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER
LOCATION OF PROJECT: MONTGOMERY COUNTY CITY OF AMSTERDAM
TITLE OF DRAWING: TYPICAL SECTIONS

CONTRACT NUMBER: D213622
DATE: 10/01/2012
DRAWING NUMBER: TS-2



REMOVALS LEGEND:

SYMBOL	DESCRIPTION
	ITEM 201.07 CLEARING AND GRUBBING REMOVE ASPHALT PAVEMENT
	ITEM 201.07 CLEARING AND GRUBBING REMOVE CONCRETE PAVEMENT
	ITEM 201.07 CLEARING AND GRUBBING REMOVE BROKEN ASPHALT AND CONCRETE

ADVANCE COPY

GRAPHIC SCALE

(IN FEET)
SCALE: 1" = 10'-0" (FULL SIZE)
1" = 20'-0" (HALF SIZE)

N

SARATOGA ASSOCIATES
Landmarks Architects, Planners, Engineers, and Planners, P.C.
1533 Crescent Road - Clifton Park, NY 12065

AMMANN & WHITNEY

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

DATE	DESCRIPTION	BY	SYM.
REVISIONS			

PREPARED BY: SARATOGA ASSOCIATES
ON: MARCH 2012

SIGNATURE: _____
CONSULTANT STAMP: _____

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER

LOCATION OF PROJECT
MONTGOMERY COUNTY
CITY OF AMSTERDAM

TITLE OF DRAWING
REMOVALS PLAN
SOUTH LANDING

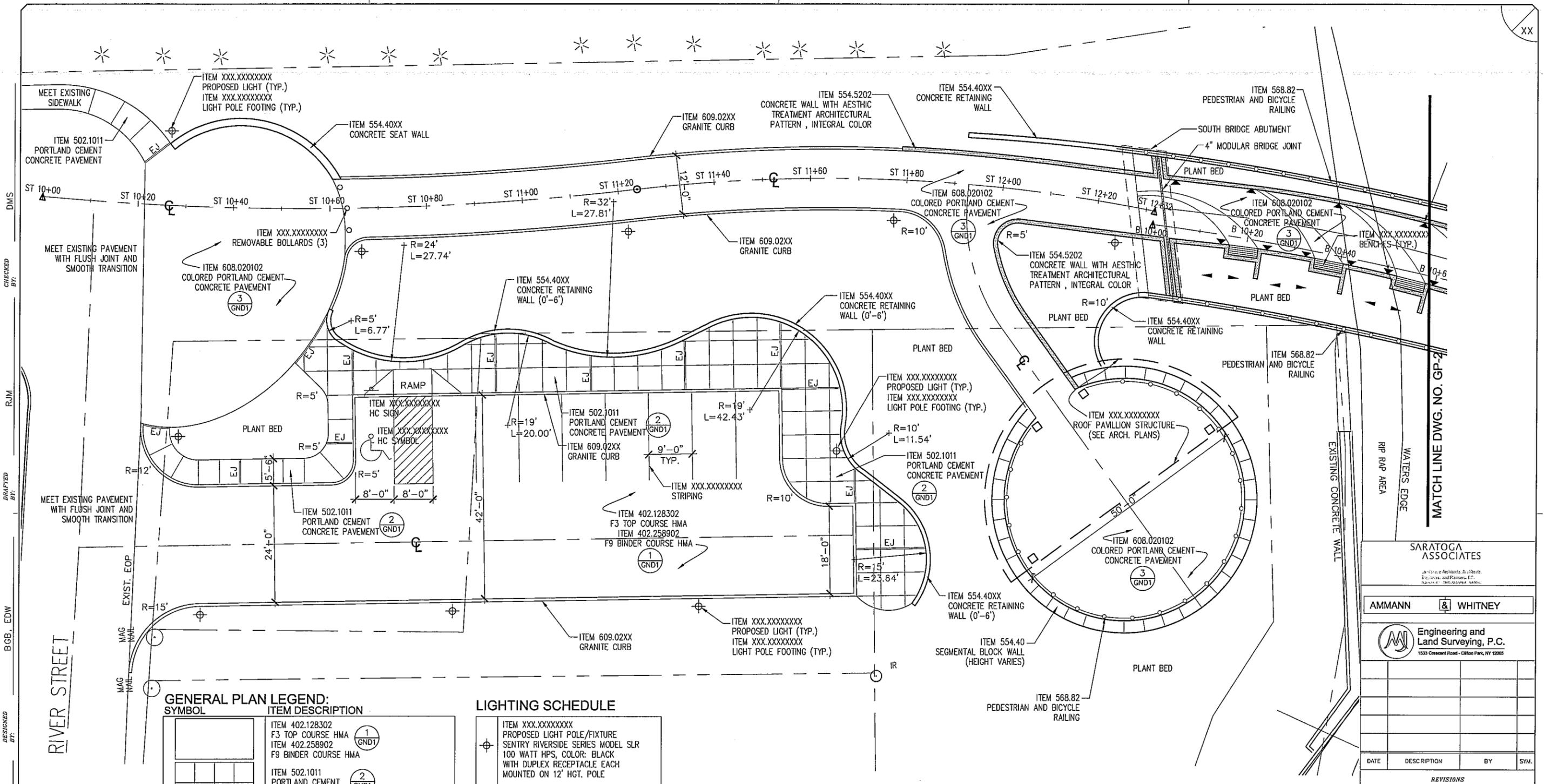
CONTRACT NUMBER:
D213622

DATE:
10/01/2012

DRAWING NUMBER:
RP-1

DMS
 CHECKED BY:
 RIM
 DRAFTED BY:
 B.G.B., EDW
 DESIGNED BY:
 DMS
 IN CHARGE OF:

XX



DMS
 CHECKED BY:
 RUM
 DRAFTED BY:
 BGB, EDW
 DESIGNED BY:
 DMS
 IN CHARGE OF:

RIVER STREET

MATCH LINE DWG. NO. GP-2
 WATERS EDGE
 RIP RAP AREA
 EXISTING CONCRETE WALL

GENERAL PLAN LEGEND:

SYMBOL	ITEM DESCRIPTION
	ITEM 402.128302 F3 TOP COURSE HMA (1 GND1)
	ITEM 402.258902 F9 BINDER COURSE HMA
	ITEM 502.1011 PORTLAND CEMENT CONCRETE PAVEMENT (2 GND1)
	ITEM 608.020102 COLORED PORTLAND CEMENT CONCRETE PAVEMENT (3 GND1)
	ITEM 554.40XX CONCRETE RETAINING WALL (0'-6")
	ITEM 554.5202 CONCRETE WALL WITH AESTHIC TREATMENT ARCHITECTURAL PATTERN, INTEGRAL COLOR
	ITEM 554.40 SEGMENTAL BLOCK WALL
	ITEM 568.82 PEDESTRIAN AND BICYCLE RAILING
	ITEM XXX.XXXXXXX BENCHES
	ITEM XXX.XXXXXXX REMOVABLE BOLLARDS

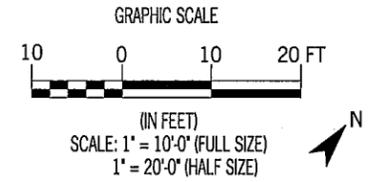
LIGHTING SCHEDULE

	ITEM XXX.XXXXXXX PROPOSED LIGHT POLE/FIXTURE SENTRY RIVERSIDE SERIES MODEL SLR 100 WATT HPS, COLOR: BLACK WITH DUPLEX RECEPTACLE EACH MOUNTED ON 12' HGT. POLE
	ITEM XXX.XXXXXXX PROPOSED RECESSED WALL LIGHT MODEL FC5L406-3K-650-SS-PCL
	ITEM XXX.XXXXXXX PROPOSED ACCENT LIGHT PHILIPS HADCO MODEL #B4-A-S-0

SARATOGA ASSOCIATES
 Architects, Engineers, Planners, P.C.
 AMMANN & WHITNEY
 Engineering and Land Surveying, P.C.
 1533 Crescent Road - Clifton Park, NY 12065

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING GENERAL PLAN			

ADVANCE COPY

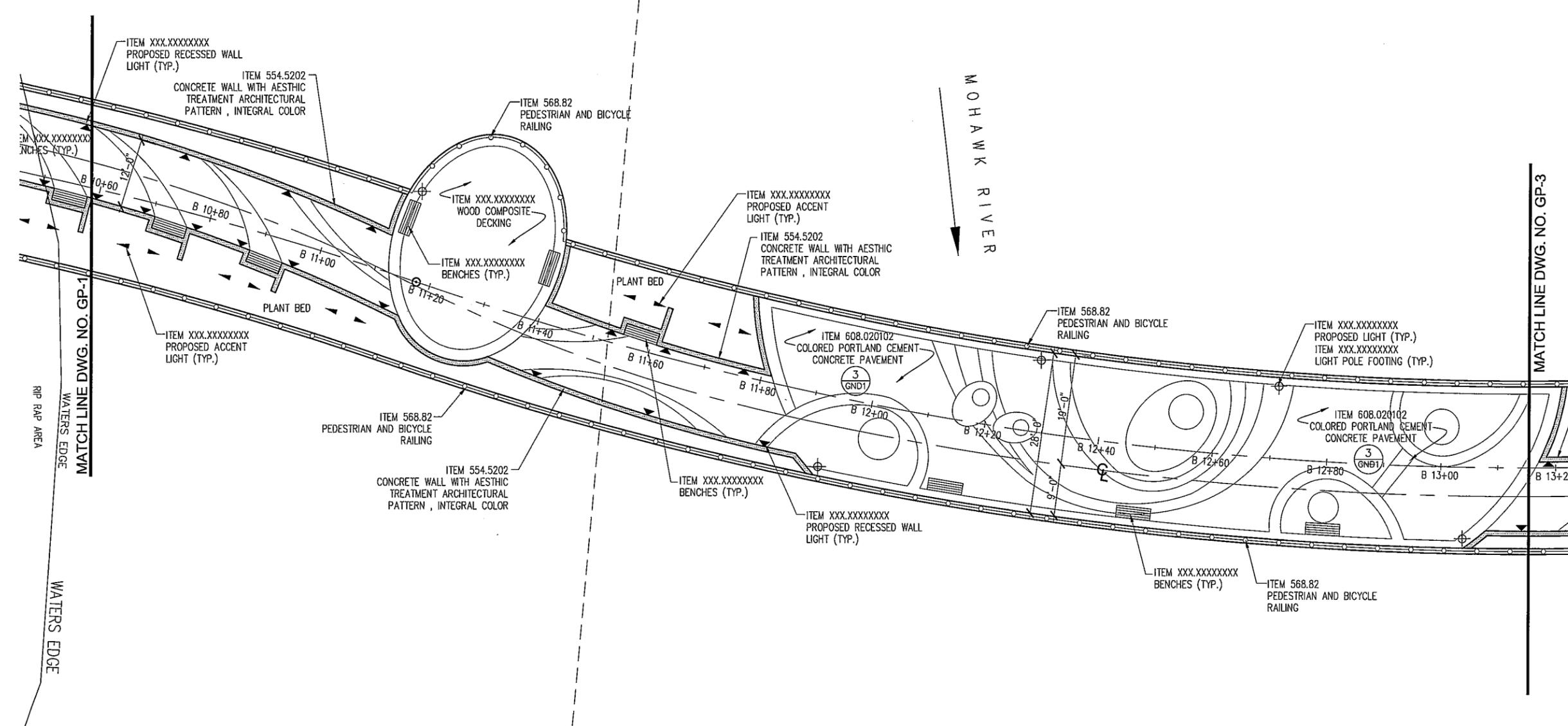


ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED

PREPARED BY: SARATOGA ASSOCIATES
 ON: MARCH 2012
 CONSULTANT SHEET

CONTRACT NUMBER:
D213622
 DATE:
10/01/2012
 DRAWING NUMBER:
GP-1

DMS
CHECKED BY:
RJM
DRAFTED BY:
BGB, EDW
DESIGNED BY:
DMS
IN CHARGE OF:



GENERAL PLAN LEGEND:

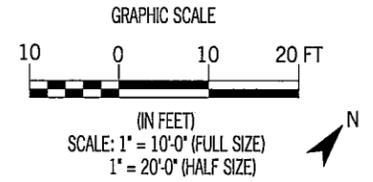
SYMBOL	ITEM DESCRIPTION
	ITEM 402.128302 F3 TOP COURSE HMA
	ITEM 402.258902 F9 BINDER COURSE HMA
	ITEM 502.1011 PORTLAND CEMENT CONCRETE PAVEMENT
	ITEM 608.020102 COLORED PORTLAND CEMENT CONCRETE PAVEMENT
	ITEM 554.40XX CONCRETE RETAINING WALL (0'-6")
	ITEM 554.5202 CONCRETE WALL WITH AESTHIC TREATMENT ARCHITECTURAL PATTERN, INTEGRAL COLOR
	ITEM 554.40 SEGMENTAL BLOCK WALL
	ITEM 568.82 PEDESTRIAN AND BICYCLE RAILING
	ITEM XXX.XXXXXXX BENCHES
	ITEM XXX.XXXXXXX REMOVABLE BOLLARDS

LIGHTING SCHEDULE

	ITEM XXX.XXXXXXX PROPOSED LIGHT POLE/FIXTURE SENTRY RIVERSIDE SERIES MODEL SLR 100 WATT HPS, COLOR: BLACK WITH DUPLEX RECEPTACLE EACH MOUNTED ON 12' HGT. POLE
	ITEM XXX.XXXXXXX PROPOSED RECESSED WALL LIGHT MODEL FC SL406-3K-650-SS-PCL
	ITEM XXX.XXXXXXX PROPOSED ACCENT LIGHT PHILIPS HADCO MODEL #B4-A-S-0

PREPARED BY: SARATOGA ASSOCIATES
 ON: MARCH 2012
 SIGNATURE: _____
 PROFESSIONAL STAMP:

ADVANCE COPY



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SARATOGA ASSOCIATES
 Landscape Architects, Architects
 Engineers, and Planners, P.C.
 1533 Crescent Road - Clifton Park, NY 12065

AMMANN & WHITNEY
 Engineering and Land Surveying, P.C.
 1533 Crescent Road - Clifton Park, NY 12065

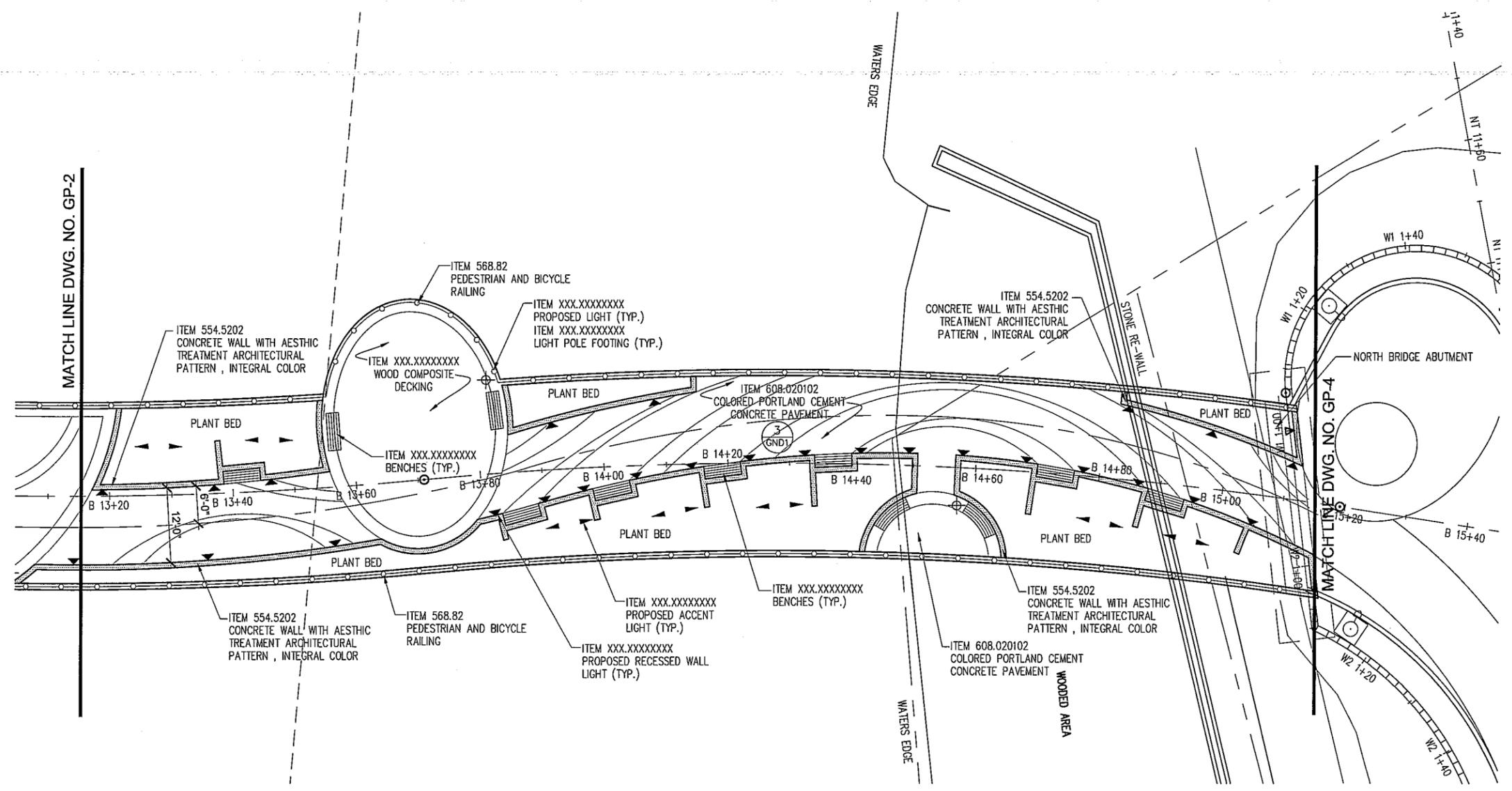
DATE	DESCRIPTION	BY	SYM.

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
 DEPARTMENT OF ENGINEERING
 200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT: NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER
 LOCATION OF PROJECT: MONTGOMERY COUNTY CITY OF AMSTERDAM
 TITLE OF DRAWING: GENERAL PLAN

CONTRACT NUMBER: D213622
 DATE: 10/01/2012
 DRAWING NUMBER: GP-2



GENERAL PLAN LEGEND:

SYMBOL	ITEM DESCRIPTION
	ITEM 402.128302 F3 TOP COURSE HMA
	ITEM 402.258902 F9 BINDER COURSE HMA
	ITEM 502.1011 PORTLAND CEMENT CONCRETE PAVEMENT
	ITEM 608.020102 COLORED PORTLAND CEMENT CONCRETE PAVEMENT
	ITEM 554.40XX CONCRETE RETAINING WALL (0'-6')
	ITEM 554.5202 CONCRETE WALL WITH AESTHIC TREATMENT ARCHITECTURAL PATTERN, INTEGRAL COLOR
	ITEM 554.40 SEGMENTAL BLOCK WALL
	ITEM 568.82 PEDESTRIAN AND BICYCLE RAILING
	ITEM XXX.XXXXXXX BENCHES
	ITEM XXX.XXXXXXX REMOVABLE BOLLARDS

LIGHTING SCHEDULE

	ITEM XXX.XXXXXXX PROPOSED LIGHT POLE/FIXTURE SENTRY RIVERSIDE SERIES MODEL SLR 100 WATT HPS, COLOR: BLACK WITH DUPLEX RECEPTACLE EACH MOUNTED ON 12' HGT. POLE
	ITEM XXX.XXXXXXX PROPOSED RECESSED WALL LIGHT MODEL FC5L406-3K-650-SS-PCL
	ITEM XXX.XXXXXXX PROPOSED ACCENT LIGHT PHILIPS HADCO MODEL #B4-A-S-0

SARATOGA ASSOCIATES
Landscape Architects and Planners
Engineers and Planners, P.C.
1533 Crescent Road - Clifton Park, NY 12065

AMMANN & WHITNEY

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

DATE	DESCRIPTION	BY	SYM.

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

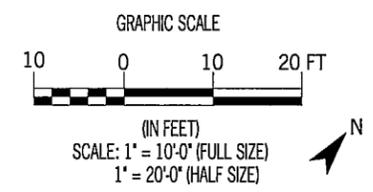
TITLE OF PROJECT
NEW PEDESTRIAN BRIDGE
OVER THE MOHAWK RIVER
LOCATION OF PROJECT
MONTGOMERY COUNTY
CITY OF AMSTERDAM

TITLE OF DRAWING
GENERAL PLAN

	CONTRACT NUMBER: D213622
	DATE: 10/01/2012
	DRAWING NUMBER: GP-3

PREPARED BY: SARATOGA ASSOCIATES
ON: MARCH 2012

ADVANCE COPY



ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED

DMS
 CHECKED BY:
 RUM
 DRAFTED BY:
 BGE, EDW
 DESIGNED BY:
 DMS
 IN CHARGE OF:

RAIL ROAD TRACKS

NEW YORK CENTRAL LINES LLC
(REPUTED OWNER)
TAX ID. NO. 55.43-1-101

ITEM XXX.XX
LAMPPOST
AND FOUNDATION
(TYP.)

ITEM XXX.XXXXXXXX
PEDESTRIAN BARRIER
(TYP.)

RETAINING WALL NO. 1
ITEM 554.10

EDGE OF PAVEMENT
(TYP.)

FEE

W1 1+80 W1 2+00 W1 2+20 W1 2+40 W1 2+60 W1 2+80 W1 3+00 W1 3+20 W1 3+40

NT 11+00 NT 11+20 NT 11+40 NT 11+60 NT 11+80 NT 12+00 NT 12+20 NT 12+40 NT 12+60 NT 12+80 NT 13+00 NT 13+20 NT 13+40 NT 13+60

LANDS OF THE PEOPLE OF THE
STATE OF NEW YORK UNDER THE
PRESENT JURISDICTION OF THE
CANAL CORPORATION

TLC PROPERTIES INC.
(REPUTED OWNER)
TAX ID. NO. 55.43-1-102

NORTH TRAIL

LANDSCAPE AREA

LOOKOUT TRAIL A

ITEM XXX.XX
2" RIGID ELECTRICAL
CONDUIT

15'-0" OFFSET BUFFER
FROM EXISTING STONE
RETAINING WALL

STONE RETAINING WALL

PROPOSED NORTH
ABUTMENT

ITEM XXX.XXXXXXXX
PEDESTRIAN BARRIER

RETAINING WALL NO. 1
ITEM 554.10
EXISTING STONE RETAINING
WALL TO REMAIN

GRASS SWALE
(TYP.)

INV-253J

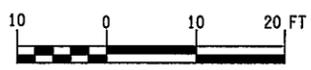
CONCRETE

STONE & MASONRY

WOODED AREA

LANDS OF THE PEOPLE OF THE
STATE OF NEW YORK UNDER THE
PRESENT JURISDICTION OF THE
CANAL CORPORATION

GRAPHIC SCALE



(IN FEET)
SCALE: 1" = 10'-0" (FULL SIZE)
1" = 20'-0" (HALF SIZE)

MATCH LINE DWG. NO. GP-3

HCL BRIDGE ALIGNMENT,
SEE BRIDGE GENERAL PLANS

ADVANCE COPY

GENERAL NOTES - NORTH TRAIL:

- SEE DWG. NOS. PR-5 TO PR-7 FOR THE NORTH TRAIL PROFILE.
- SEE DWG. NOS. TYP-1 TO TYP-3 FOR NORTH TRAIL TYPICAL SECTIONS.
- NORTH TRAIL SIDE SLOPES VARY AND SHALL NOT EXCEED A MAXIMUM GRADE OF 1:3.

STATION EQUALITIES:

- BRIDGE STA. B 15+52.04 = NORTH TRAIL STA. NT 12+24.81
- NORTH TRAIL STA. NT 12+70.00 = LOOKOUT TRAIL A STA. PA 10+00.00

ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED

DESIGNED BY: B. COOPER
CHECKED BY: L. WALLIN
IN CHARGE OF: B. COOPER

FILE NAME = F:\m\299\213622\csh\app_04.dgn
DATE/TIME = 9/26/2012 4:36:29 PM
USER = lwallin

AMMANN & WHITNEY

Engineering and
Land Surveying, P.C.
1533 Cassport Road - Gilton Park, NY 12008

DATE	DESCRIPTION	BY	SYM.

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

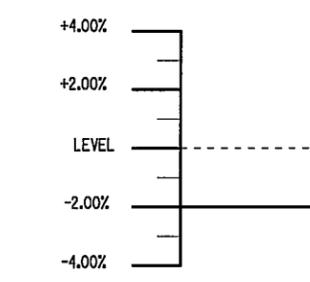
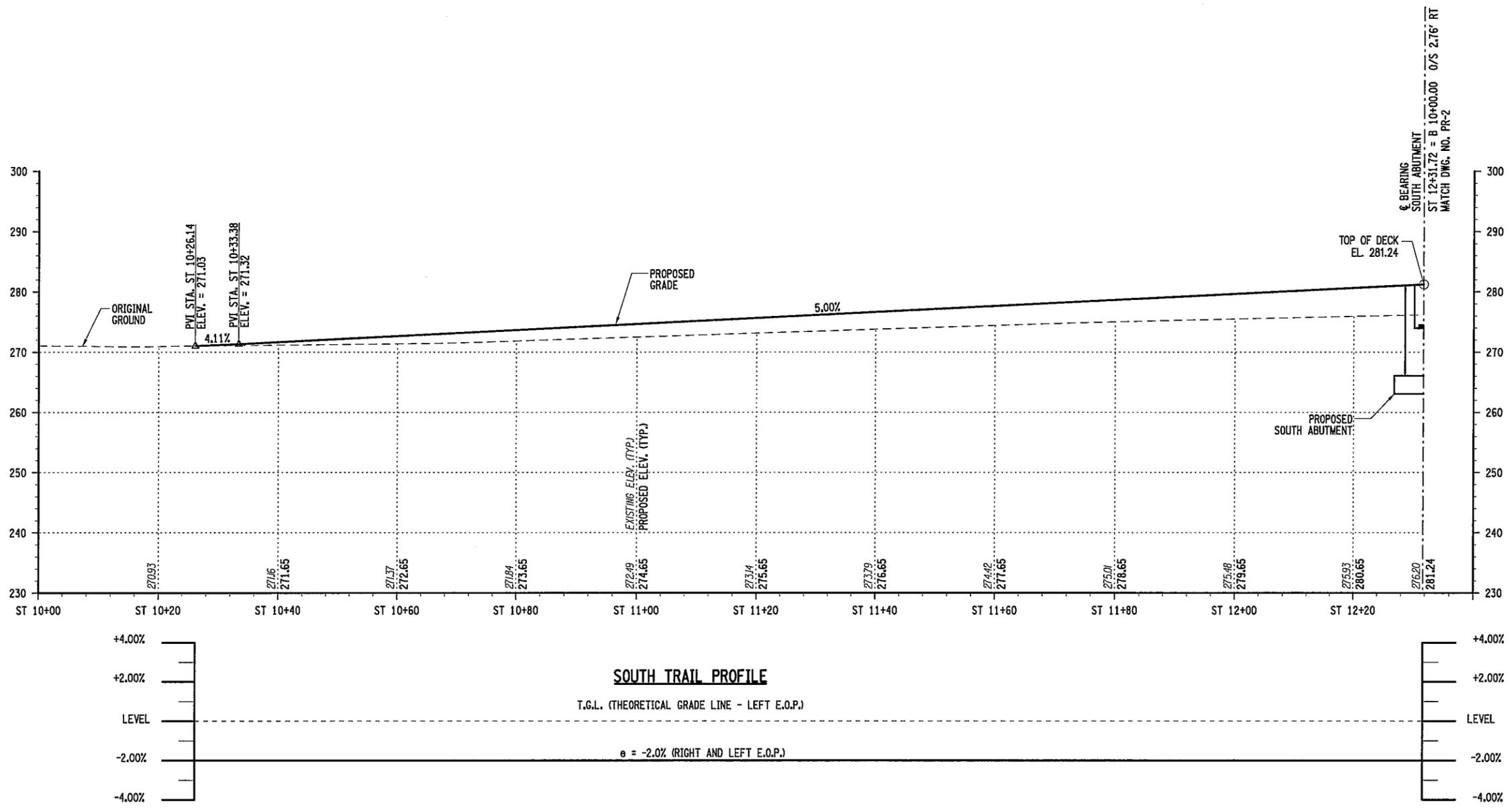
TITLE OF PROJECT
NEW PEDESTRIAN BRIDGE
OVER THE MOHAWK RIVER
LOCATION OF PROJECT
MONTGOMERY COUNTY
CITY OF AMSTERDAM
TITLE OF DRAWING

GENERAL PLAN

	CONTRACT NUMBER: D213622
	DATE: 10/01/2012
	DRAWING NUMBER: GP-4

DESIGNED BY: L. WALLIN
 CHECKED BY: B. COOPER / C. DOOLEY
 IN CHARGE OF: B. COOPER

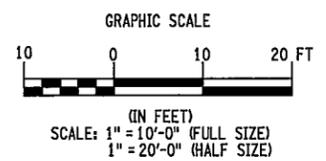
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 USER = lwllin



SOUTH TRAIL PROFILE

T.G.L. (THEORETICAL GRADE LINE - LEFT E.O.P.)

e = -2.0% (RIGHT AND LEFT E.O.P.)



ADVANCE COPY

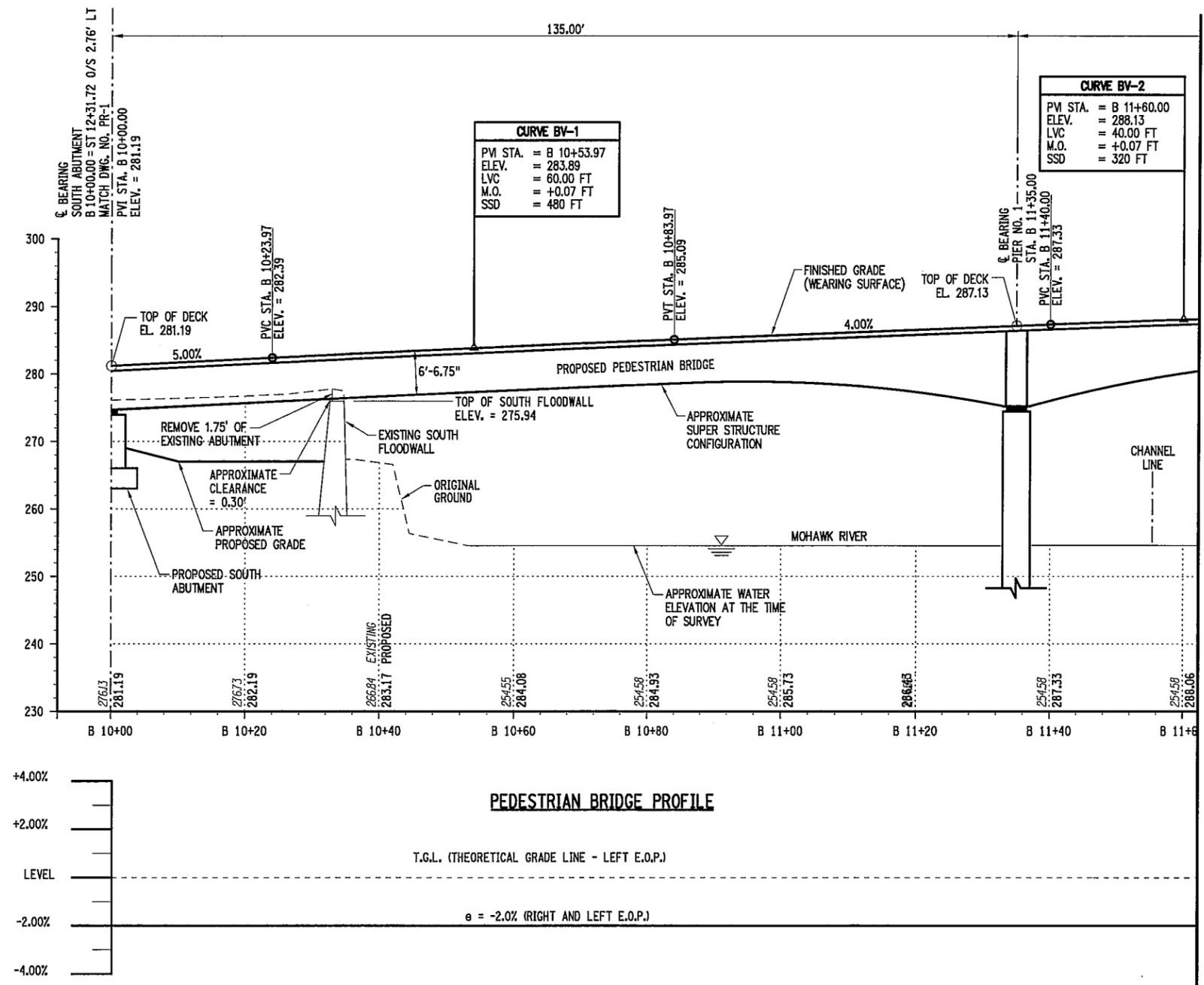
ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED

AMMANN & WHITNEY			
Engineering and Land Surveying, P.C. <small>1533 Crossroad Road - Clifton Park, NY 12066</small>			
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING SOUTH PEDESTRIAN TRAIL PROFILE			
		CONTRACT NUMBER: D213622	
		DATE: 10/01/2012	
		DRAWING NUMBER: PR-1	

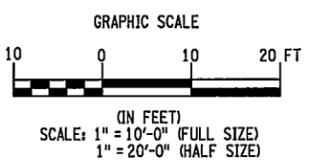
PREPARED BY: MJ ENGINEERING AND LAND SURVEYING, P.C.
 ON: OCTOBER 2012
 SIGNATURE:
 CONSULTANT STAMP:

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 USER = lwallin
 IN CHARGE OF = B. COOPER

DESIGNED BY: B. COOPER
 DRAFTER BY: L. WALLIN
 CHECKED BY: B. COOPER / C. DOOLEY



MATCH LINE DWG. NO. PR-3



PEDESTRIAN BRIDGE PROFILE

T.G.L. (THEORETICAL GRADE LINE - LEFT E.O.P.)

$\theta = -2.0\%$ (RIGHT AND LEFT E.O.P.)

ADVANCE COPY

ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED

AMMANN & WHITNEY			
 Engineering and Land Surveying, P.C. 1533 Crescent Road - Clinton Park, NY 12005			
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT			
NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER			
LOCATION OF PROJECT			
MONTGOMERY COUNTY CITY OF AMSTERDAM			
TITLE OF DRAWING			
PEDESTRIAN BRIDGE PROFILE			
CONTRACT NUMBER:		D213622	
DATE:		10/01/2012	
DRAWING NUMBER:		PR-2	
			

PREPARED BY: MJ ENGINEERING AND LAND SURVEYING, P.C.
 ON: OCTOBER 2012
 SIGNATURE:
 CONSULTANT STAMP:

CHECKED BY: B. COOPER / C. DOOLEY

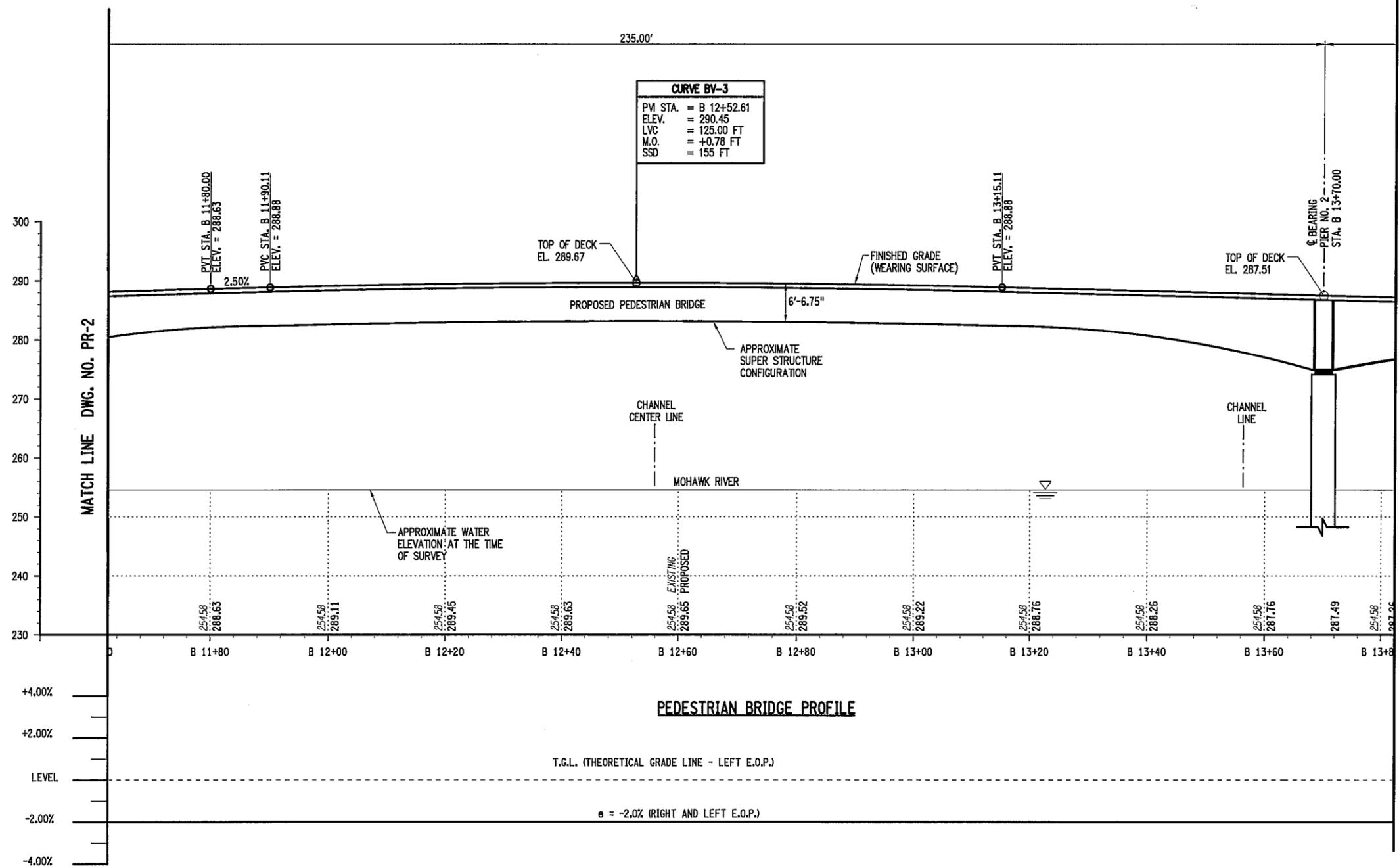
DRAWN BY: L. WALLIN

L. WALLIN

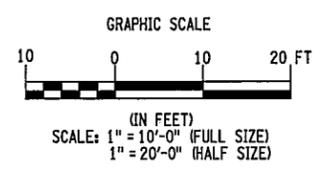
DESIGNED BY:

B. COOPER

IN CHARGE OF:



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 USER = lwallin



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AMMANN & WHITNEY

Engineering and Land Surveying, P.C.
 1533 Crescent Road - Clifton Park, NY 12005

DATE	DESCRIPTION	BY	SYM.

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
 DEPARTMENT OF ENGINEERING
 200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
 NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER

LOCATION OF PROJECT
 MONTGOMERY COUNTY
 CITY OF AMSTERDAM

TITLE OF DRAWING
 PEDESTRIAN BRIDGE PROFILE



CONTRACT NUMBER:
 D213622

DATE:
 10/01/2012

DRAWING NUMBER:
 PR-3

PREPARED BY: MJ ENGINEERING AND LAND SURVEYING, P.C.
 ON: OCTOBER 2012
 SIGNATURE:
 CONSULTANT STAMP:

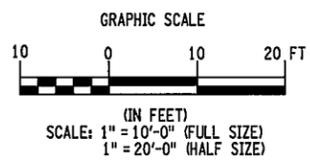
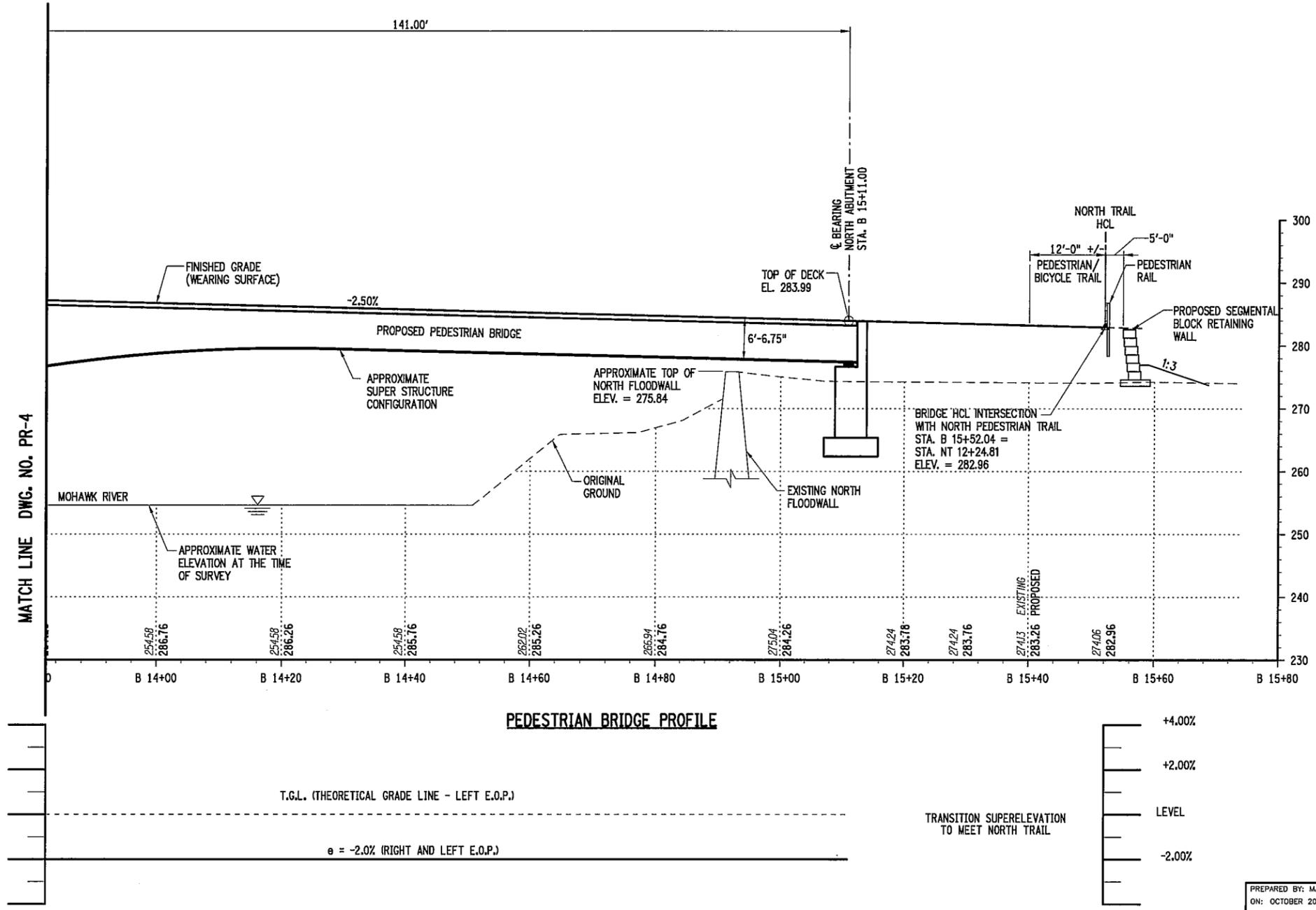
CHECKED BY: B. COOPER / C. DOOLEY

DRAFTED BY: L. WALLIN

DESIGNED BY: L. WALLIN

IN CHARGE OF: B. COOPER

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USER = lwallin



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AMMANN & WHITNEY



DATE	DESCRIPTION	BY	SYM.

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
NEW PEDESTRIAN BRIDGE
OVER THE MOHAWK RIVER

LOCATION OF PROJECT
MONTGOMERY COUNTY
CITY OF AMSTERDAM

TITLE OF DRAWING
PEDESTRIAN
BRIDGE PROFILE



CONTRACT NUMBER:
D213622

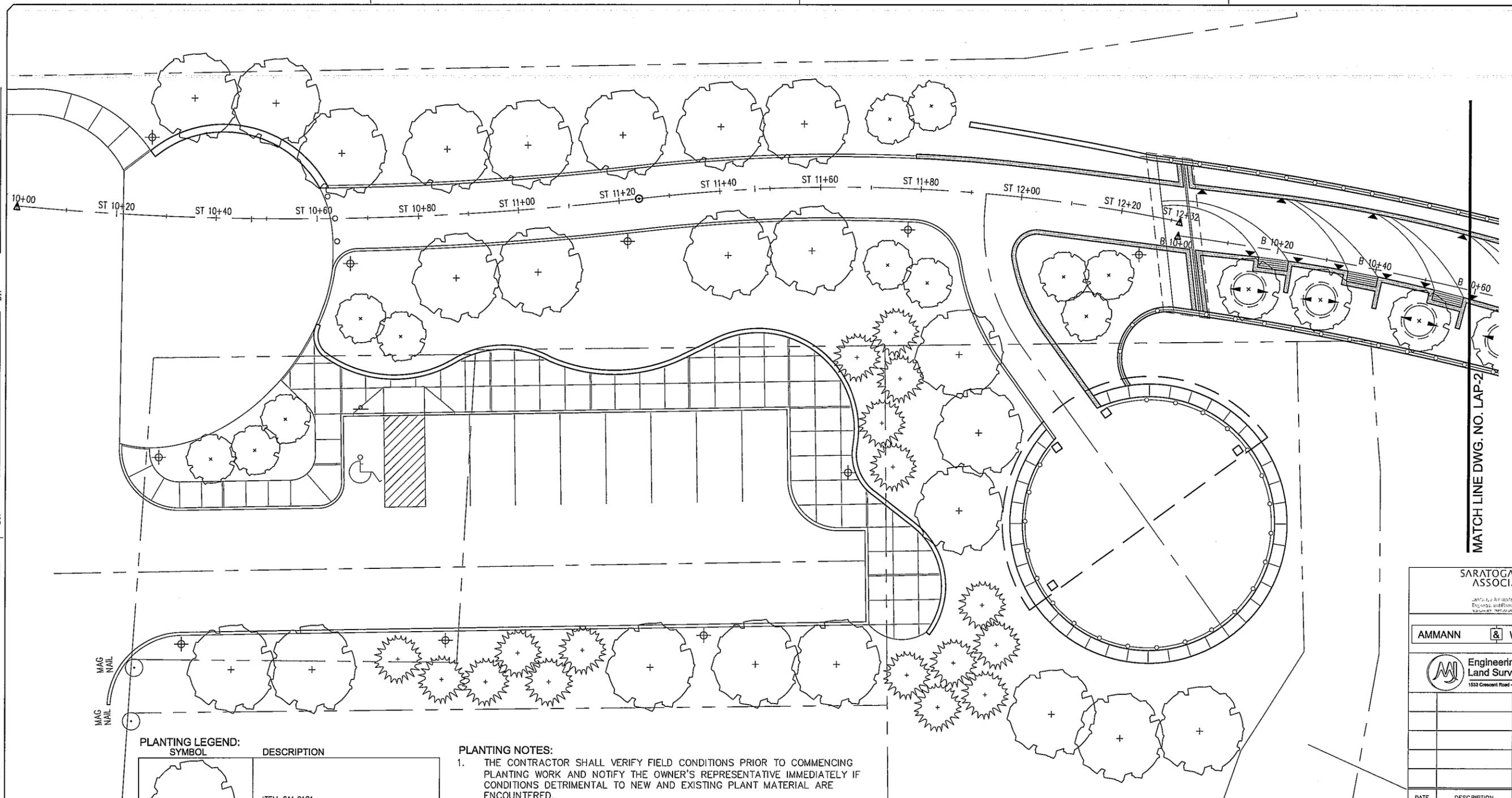
DATE:
10/01/2012

DRAWING NUMBER:
PR-4

PREPARED BY: MJ ENGINEERING AND LAND SURVEYING, P.C.
ON: OCTOBER 2012

SIGNATURE:
CONSULTANT STAMP:

DMS
CHECKED BY:
RJM
DRAFTED BY:
BGB, EDW
DESIGNED BY:
DMS
IN CHARGE OF:



MATCH LINE DWG. NO. LAP-2

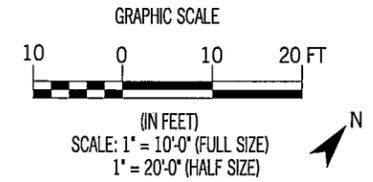
PLANTING LEGEND:

SYMBOL	DESCRIPTION
	ITEM 611.0181 MAJOR DECIDUOUS TREE
	ITEM 611.0201 MINOR DECIDUOUS TREE
	ITEM 611.0511Q EVERGREEN SHRUBS
	ITEM 611.0411 DECIDUOUS SHRUBS
	ITEM 611.0611 VINES AND GROUNDCOVERS
	PLANT QUANTITY PLANT SYMBOL

- PLANTING NOTES:**
1. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO COMMENCING PLANTING WORK AND NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY IF CONDITIONS DETRIMENTAL TO NEW AND EXISTING PLANT MATERIAL ARE ENCOUNTERED.
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 4. ALL PLANT BEDS AND TREE PIT AREAS SHALL RECEIVE 4" OF SHREDDED BARK MULCH.
 5. THE CONTRACTOR SHALL INSTALL 4" OF TOPSOIL AND SEED ALL AREAS DISTURBED AS A RESULT OF NEW CONSTRUCTION WITH SPECIFIED LAWN SEED MIX.

NOTE: REFER TO DWG. NO. LAP-2 FOR PLANT LIST

ADVANCE COPY



ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED

SARATOGA ASSOCIATES
ARCHITECTS, ENGINEERS, AND PLANNERS, P.C.
1533 CRESCENT ROAD - CLIFTON PARK, NY 12065

AMMANN & WHITNEY
Engineering and Land Surveying, P.C.
1533 CRESCENT ROAD - CLIFTON PARK, NY 12065

DATE	DESCRIPTION	BY	SYM.
REVISIONS			

PREPARED BY: SARATOGA ASSOCIATES
ON: MARCH 2012

CONTRACT NUMBER: D213622
DATE: 10/01/2012
DRAWING NUMBER: LAP-1

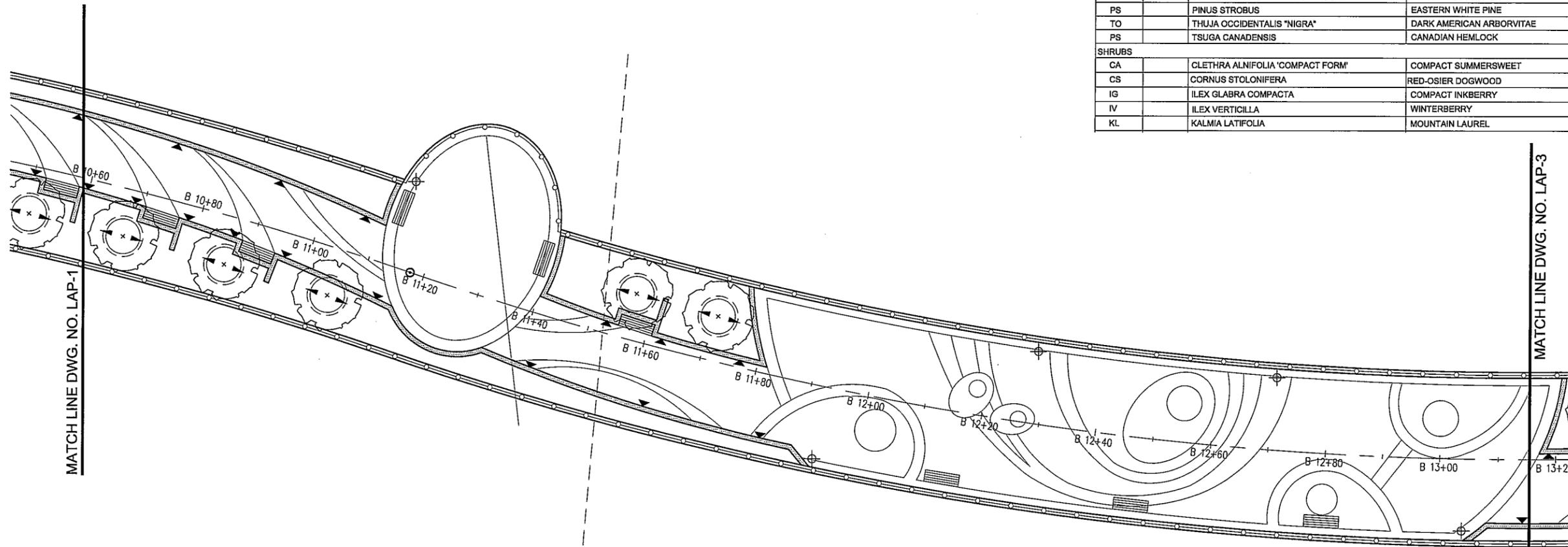
NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT: NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER
LOCATION OF PROJECT: MONTGOMERY COUNTY CITY OF AMSTERDAM
TITLE OF DRAWING: LANDSCAPE ARCHITECTURE PLAN

RM	RHODODENDRON MAXIMUM	ROSE BAY RHODODENDRON	24'-30" HGT.	B&B	
RH	ROSA HYBRID SHRUB	KNOCKOUT SERIES ROSE PINK	24'-30" HGT.	#3 CONT.	
SB	SPIREA JAPONICA 'MAGIC CARPET'	MAGIC CARPET SPIREA	24'-30" HGT.	#3 CONT.	
SM	SYRINGA MEYERI	DWARF KOREAN LILAC	18'-24" HGT.	#3 CONT.	
VC	VIBURNUM CARLESII COMPACTA	COMPACT FRAGRANT VIBURNUM	18'-24" HGT.	#3 CONT.	
VD	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	24'-30" HGT.	#3 CONT.	
GRASSES, FERNS AND PERENNIALS					
EC	EUPATORIUM COELESTINUM	HARDY AGERATUM	12'-18" HGT.	#1 CONT.	18" O.C.
IV	IRIS VERSICOLOR	BLUE FLAG IRIS	12'-18" HGT.	#1 CONT.	18" O.C.
LC	LOBELIA CARDINALIS	CARDINAL FLOWER	12'-18" HGT.	#1 CONT.	18" O.C.
LS	LOBELIA SIPHATICA	GREAT BLUE LOBELIA	12'-18" HGT.	#1 CONT.	18" O.C.
OC	OSMUNDA CINNAMOMEA	CINNAMON FERN	12'-18" HGT.	#1 CONT.	18" O.C.
PV	PANICUM VIRGATUM 'HEAVY METAL'	HEAVY METAL SWITCH GRASS	12'-18" HGT.	#1 CONT.	18" O.C.
RL	RUDBECIA LACINIATA	CUTLEAF CONEFLOWER	12'-18" HGT.	#1 CONT.	18" O.C.

PLANTING LIST:

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTE
DECIDUOUS TREES						
AS		ACER SACCHARUM 'LEGACY'	LEGACY SUGAR MAPLE	3-3 1/2" CAL.	B&B	
AR		ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY	3-3 1/2" CAL.	B&B	
BN		BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	8'-10' HGT.	B&B	HEAVY CLUMP
LS		LIQUIDAMBAR STYRACIFLUA 'ROTUNDALOBA'	ROTUNDALOBA SWEETGUM	2 1/2-3" CAL.	B&B	
PO		PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	3-3 1/2" CAL.	B&B	
QC		QUERCUS COCCINEA	SCARLET OAK	2 1/2-3" CAL.	B&B	
QR		QUERCUS RUBRA BOREALIS	NORTHERN RED OAK	3-3 1/2" CAL.	B&B	
FLOWERING TREES						
AC		AMELANCHIER CANADENSIS	SERVICEBERRY	2 1/2-3" CAL.	B&B	TREE FORM
CC		CARPINUS CAROLINA	AMERICAN HORNBEAM	2 1/2-3" CAL.	B&B	
CC		CERCIS CANADENSIS	EASTERN REDBUD	8'-10' HGT.	B&B	HEAVY CLUMP TREE FORM
PV		PRUNUS VIRGINIANA 'SHUBERT'	CANADA RED SELECT CHOKECHERRY	2 1/2-3" CAL.	B&B	
EVERGREEN TREES						
ID		ILEX OPACA	AMERICAN HOLLY	8'-10' HGT.	B&B	
JV		JUNIPERUS VIRGINIANA 'SKYROCKET'	SKYROCKET JUNIPER	7'-8' HGT.	B&B	
PS		PINUS STROBUS	EASTERN WHITE PINE	8'-10' HGT.	B&B	
TO		THUJA OCCIDENTALIS 'NIGRA'	DARK AMERICAN ARBORVITAE	7'-8' HGT.	B&B	
PS		TSUGA CANADENSIS	CANADIAN HEMLOCK	8'-10' HGT.	B&B	
SHRUBS						
CA		CLETHRA ALNIFOLIA 'COMPACT FORM'	COMPACT SUMMERSWEET	18"-24" HGT.	#3 CONT.	
CS		CORNUS STOLONIFERA	RED-OSIER DOGWOOD	24"-30" HGT.	#3 CONT.	
IG		ILEX GLABRA COMPACTA	COMPACT INKBERRY	24"-30" HGT.	#3 CONT.	
IV		ILEX VERTICILLA	WINTERBERRY	24"-30" HGT.	#3 CONT.	
KL		KALMIA LATIFOLIA	MOUNTAIN LAUREL	24"-30" HGT.	#3 CONT.	



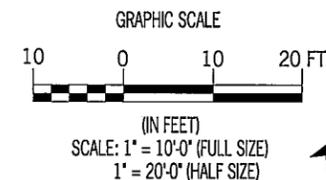
PLANTING LEGEND:

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	ITEM 611.0181 MAJOR DECIDUOUS TREE
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	PLANT QUANTITY PLANT SYMBOL

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ADVANCE COPY



ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED

SARATOGA ASSOCIATES
Landscape Architects, Architects, Engineers and Planners, P.C.
1533 Crescent Road - Clifton Park, NY 12065

AMMANN & WHITNEY
Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

DATE	DESCRIPTION	BY	SYM.
REVISIONS			

PREPARED BY: SARATOGA ASSOCIATES
ARCH 2012

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER

LOCATION OF PROJECT
MONTGOMERY COUNTY
CITY OF AMSTERDAM

TITLE OF DRAWING
LANDSCAPE ARCHITECTURE PLAN

CONTRACT NUMBER:
D213622

DATE:
10/01/2012

DRAWING NUMBER:
LAP-2

DMS

CHECKED BY:

RJM

DRAFTED BY:

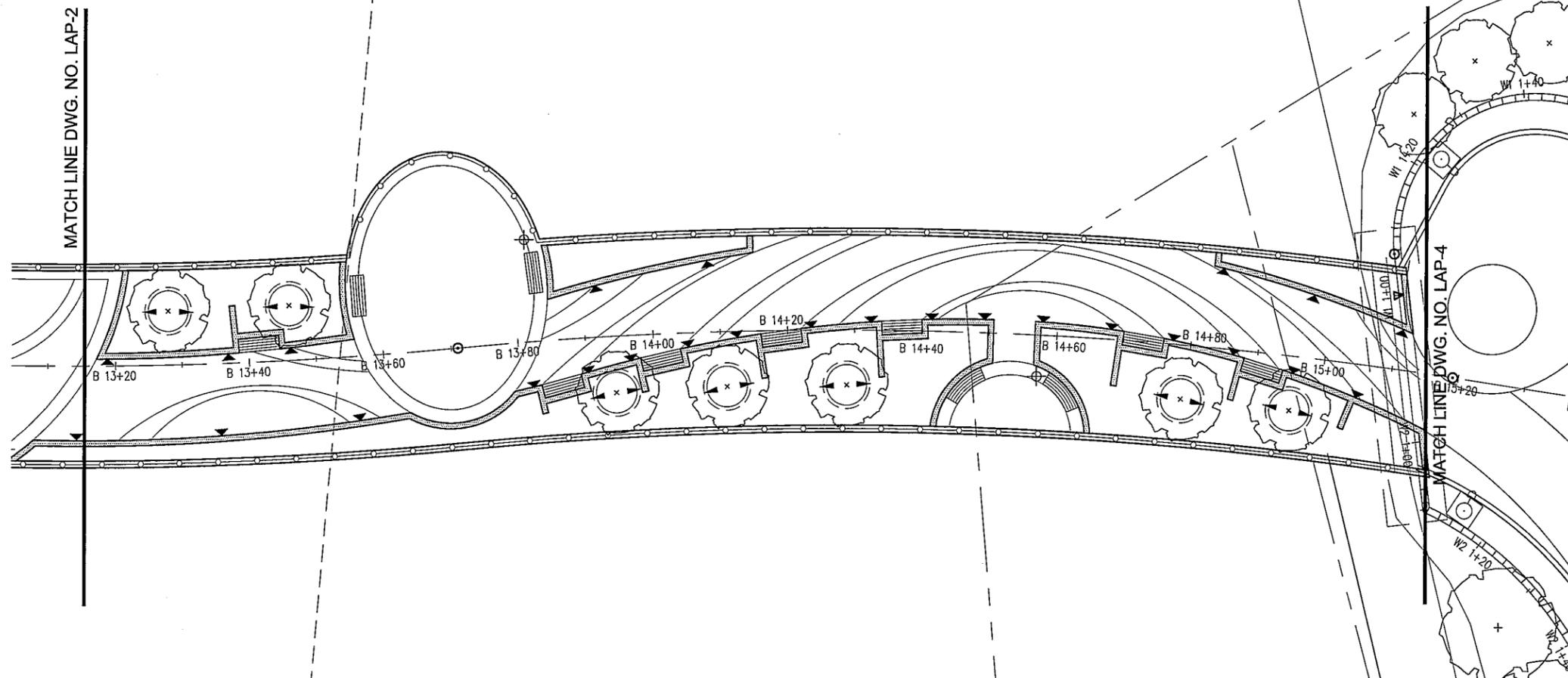
BOB, EDW

DESIGNED BY:

DMS

IN CHARGE OF:

XX



DESIGNED BY: DMS
 CHECKED BY: DMS
 ADAPTED BY:
 RUM
 BGG, EDW
 IN CHARGE OF: DMS

PLANTING LEGEND:

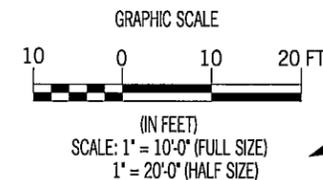
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ADVANCE COPY



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SARATOGA ASSOCIATES
Landscape Architects, Architects, Engineers, and Planners, P.C.
Saratoga Springs, New York

AMMANN & WHITNEY

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

DATE	DESCRIPTION	BY	SYM.
REVISIONS			

PREPARED BY: SARATOGA ASSOCIATES
ON: MARCH 2012

SIGNATURE: _____
CONTRACTOR: _____

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT:
NEW PEDESTRIAN BRIDGE OVER THE MOHAWK RIVER

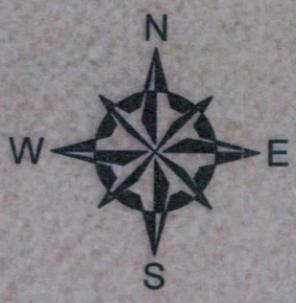
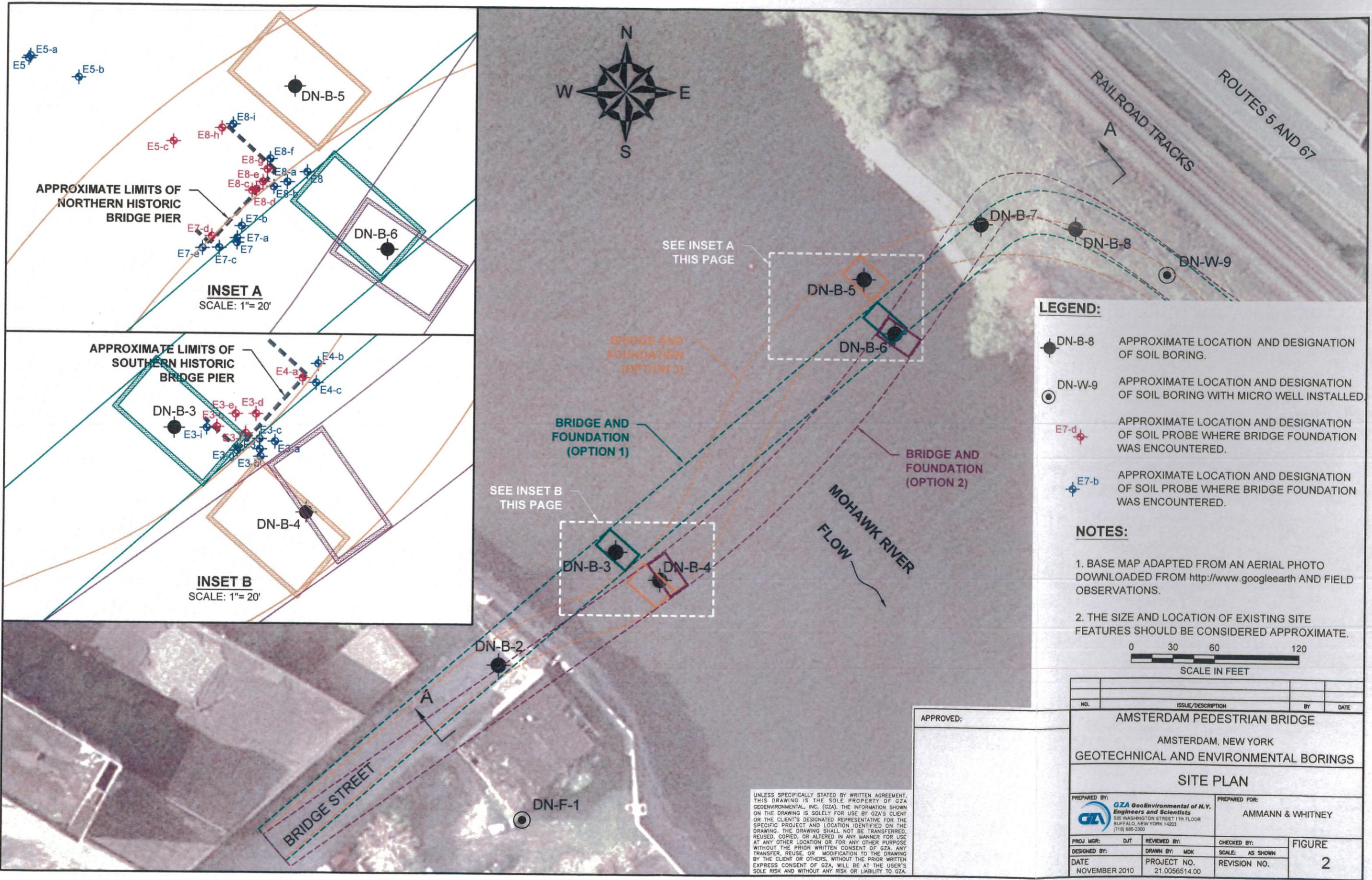
LOCATION OF PROJECT:
MONTGOMERY COUNTY
CITY OF AMSTERDAM

TITLE OF DRAWING:
LANDSCAPE ARCHITECTURE PLAN

CONTRACT NUMBER:
D213622

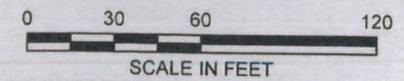
DATE:
10/01/2012

DRAWING NUMBER:
LAP-3



- LEGEND:**
- DN-B-8 APPROXIMATE LOCATION AND DESIGNATION OF SOIL BORING.
 - ⊙ DN-W-9 APPROXIMATE LOCATION AND DESIGNATION OF SOIL BORING WITH MICRO WELL INSTALLED.
 - ⚡ E7-d APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBE WHERE BRIDGE FOUNDATION WAS ENCOUNTERED.
 - ⚡ E7-b APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBE WHERE BRIDGE FOUNDATION WAS ENCOUNTERED.

- NOTES:**
1. BASE MAP ADAPTED FROM AN AERIAL PHOTO DOWNLOADED FROM <http://www.googleearth> AND FIELD OBSERVATIONS.
 2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.



NO.	ISSUE/DESCRIPTION	BY	DATE
AMSTERDAM PEDESTRIAN BRIDGE AMSTERDAM, NEW YORK GEOTECHNICAL AND ENVIRONMENTAL BORINGS SITE PLAN			
PREPARED BY: GZA GeoEnvironmental of N.Y. Engineers and Scientists 535 WASHINGTON STREET 11th FLOOR BUFFALO, NEW YORK 14203 (716) 685-2300		PREPARED FOR: AMMANN & WHITNEY	
PROJ MGR:	DJT	REVIEWED BY:	CHECKED BY:
DESIGNED BY:	MDK	SCALE:	AS SHOWN
DATE	NOVEMBER 2010	PROJECT NO.	21.0056514.00
			FIGURE
			2

APPROVED:

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© 2010 - GZA GeoEnvironmental of N.Y. GZA-1\PROJECTS\210056514\environmental Fed. Bridge\Figures 2-4.dwg [Figure 2 - Site Plan] January 05, 2011 - 11:26am ssmw\waf

PSN _____ BORNUM DN-F-1
 REGION Albany
 COUNTY Montgomery
 PIN D213622



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-F
 LINE _____
 STA _____
 OFFSET ft

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 267.61 (Top of Casing)

ACTUAL COORDINATES (N) 1,494,393.801 (E) 573,689.592 DATUM AD83/(CORS96) DEPTH TO WATER 14.3

DATE START 10/27/2010 DATE FINISH 10/27/2010

CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING In
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK	
			0-6	6-12	12-18	18-24			
	0.0	SS1	6	9	8	9	13.8%	Brown Gravelly SAND to 0.5'	(M-NPL)
								Sample Recovery= 50%	
		SS2	4	4	5	4	21.3%	Brown Silty SAND with Gravel (SM) (FILL)	(M-NPL)
								Sample Recovery= 40%	
	5.0	SS3	3	9	4	9		Red BRICK Fragments (FILL)	(M-NPL)
								Sample Recovery= 5%	
								Grey Angular GRAVEL	
		SS4	4	2	2	2		No Recovery	
								Sample Recovery= 0%	
								Water return lost at 8.0'	
		SS5	4	6	4	5	16.8%	Brown Poorly-Graded SAND with Silt and Gravel (SP-SM)	(W-NPL)
								Sample Recovery= 40%	
	10.0	SS6	2	1	1	3	21.5%	Black Silty SAND	(W-NPL)
								Sample Recovery= 40%	
		SS7	1	2	3	5	21.4%	Brown Sandy Lean CLAY (CL)	(W-PL)
								Sample Recovery= 80%	
	15.0	SS8	1	1	1	2	22.5%	Grey Silty SAND	(W-NPL)
								Sample Recovery= 100%	
		SS9	1	1	2	6	27.6%	Brown Silty Sand	(W-NPL)
								Sample Recovery= 100%	
		SS10	8	8	8	10	11.3%	Brown Poorly-Graded SAND with Silt and Gravel (SP-SM)	(W-NPL)
								Sample Recovery= 100%	
	20.0	SS11	14	13	10	40	11.8%	Brown Sandy Rounded GRAVEL	(W-NPL)
								Sample Recovery= 20%	
		SS12	20	21	23	16	10.4%	Brown Sandy Rounded GRAVEL	(W-NPL)
								Sample Recovery= 50%	
	25.0	SS13	10	11				Brown Sandy Rounded GRAVEL	(W-NPL)
								Sample Recovery= 10%	

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION M. Kress (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

PSN BORNUM DN-F-1
 REGION Albany
 COUNTY Montgomery
 PIN D213622



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-F
 LINE
 STA
 OFFSET ft

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 267.61 (Top of Casing)
 ACTUAL COORDINATES (N) 1,494,393.801 (E) 573,689.592 DATUM AD83/(CORS96) DEPTH TO WATER 14.3

DATE START 10/27/2010 DATE FINISH 10/27/2010
 CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
25.0					9			Broken GRAVEL in tip Sample Recovery= 0%
		SS14	8		11		8	
					13			
		SS15	8		8		11.9%	
30.0					9			(28.00) Dark Brown Silty SAND with Gravel (SM) Sample Recovery= 40%
					11			(W-NPL)

BOTTOM OF HOLE AT 30.00 ft

Notes:

1. A monitor well was installed to a depth of 30 feet.
2. An automatic hammer was used to advance the 2-inch OD split spoon sampler.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
28-Nov-10	08:00			7.0'		
29-Nov-10	08:00		Well	14.3'		

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DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION M. Kress (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER
 DATE APPROVED
 RESIDENT ENGINEER
 STRUCTURE NAME B.I.N.

PSN BORNUM DN-B-2
 REGION Albany
 COUNTY Montgomery
 PIN D213622



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-B
 LINE
 STA
 OFFSET ft

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 276.89
 ACTUAL COORDINATES (N) 1,494,504.070 (E) 573,671.858 DATUM AD83/(CORS96) DEPTH TO WATER 23.4

DATE START 10/28/2010 DATE FINISH 11/2/2010
 CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) 7" ASPHALT ----- (0.60) 8.5" CONCRETE -----	
		SS1	4				Brown Sandy Angular GRAVEL (FILL) (W-NPL)	
		SS2	3	4	5	4	Sample Recovery= 100% Brown Rounded Gravelly SAND (W-NPL) Sample Recovery= 20%	
	5.0	SS3	3	2	2	3	Brown Poorly-Graded SAND with Gravel (SP) (W-NPL) Sample Recovery= 40% Water return lost at 5.0 feet.	
		SS4	1	1	5	8	Brown Rounded Gravelly SAND (W-NPL) Sample Recovery= 10%	
		SS5	5	8	8	8	Brown Rounded Gravelly SAND (W-NPL) Sample Recovery= 20%	
	10.0	SS6	2	2	4	3	Brown Silty Fine SAND (W-NPL) Sample Recovery= 60%	
		SS7	2	4	5	6	Brown Silty Fine SAND (W-NPL) Sample Recovery= 60%	
	15.0	SS8	3	3	3	3	Brown Silty SAND (SM) (W-NPL) Sample Recovery= 60%	
		SS9	2	3	2	3	Brown Silty Fine SAND (W-NPL) Sample Recovery= 60%	
		SS10	6	10	10	11	Brown Silty Fine SAND (W-NPL) Sample Recovery= 100% Gs = 2.73	
	20.0	SS11	1	3	1	1	Brown Silty Fine SAND (W-NPL) Sample Recovery= 80%	
		SS12	3	5	5	10	Brown Silty Fine SAND (W-NPL) Sample Recovery= 100%	
	25.0	SS13	2	3			Brown Silty Fine SAND (W-NPL) Sample Recovery= 60%	

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 SOIL & ROCK DESCRIPTION M. Kress (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER
 DATE APPROVED
 RESIDENT ENGINEER
 STRUCTURE NAME B.I.N.

PSN BORNUM DN-B-2
 REGION Albany
 COUNTY Montgomery
 PIN D213622



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-B
 LINE _____
 STA _____
 OFFSET ft

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 276.89
 ACTUAL COORDINATES (N) 1,494,504.070 (E) 573,671.858 DATUM AD83/(CORS96) DEPTH TO WATER 23.4

DATE START 10/28/2010 DATE FINISH 11/2/2010

CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING In
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 In

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
25.0					3	3		
		SS14	2	3	5	7	40.8%	Brown Silty Fine SAND (W-NPL) Sample Recovery= 80%
		SS15	5	10	13	16	19.6%	Brown Poorly-Graded SAND with Silt (SP-SM) (W-NPL) Sample Recovery= 100%
30.0		SS16	9	11	9	8		Brown Gravelly Medium SAND (W-NPL) Sample Recovery= 10%
		SS17	10	14	15	40	8.1%	Brown Sandy Rounded GRAVEL (W-NPL) Sample Recovery= 20%
35.0		SS18	22	31	16	11	7.8%	Brown Sandy Rounded GRAVEL (W-NPL) Sample Recovery= 60% Gs = 2.78
		SS19	10	8	8	9	12%	Brown Sandy Rounded GRAVEL (W-NPL) Sample Recovery= 40%
		SS20	9	7	9	14		Brown Sandy Rounded GRAVEL (W-NPL) Sample Recovery= 2%
40.0								
45.0		SS21	10	11	9	10	10.3%	Brown Silty SAND with Gravel (SM) (W-NPL) Sample Recovery= 30%
50.0								

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DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL.)
 SOIL & ROCK DESCRIPTION M. Kress (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

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HOLE DN-B
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PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 276.89
 ACTUAL COORDINATES (N) 1,494,504.070 (E) 573,671.858 DATUM AD83/(CORS96) DEPTH TO WATER 23.4

DATE START 10/28/2010 DATE FINISH 11/2/2010

CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	50.0	SS22	5	7	7	8	7.3%	Brown Sandy Rounded GRAVEL (W-NPL) Sample Recovery= 40% Gs = 2.74
	55.0	SS23	12	12	8	7	5.5%	Brown SAND; Rounded GRAVEL (W-NPL) Sample Recovery= 20% 6 feet of Heaving Sands in Casing at 57.0 feet.
	60.0	SS24	18	11	11	19		Angular Gravel "washed clean" (W-NPL) Sample Recovery= 5%
	65.0	SS25	18	19	18	13	6.4%	Grey Sandy Angular GRAVEL (W-NPL) Sample Recovery= 20%
	70.0	SS26	22	6	6	51		White Clean Angular GRAVEL (W-NPL) Sample Recovery= 2%
	75.0							

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DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION M. Kress (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER _____
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HOLE DN-B
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PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 276.89
 ACTUAL COORDINATES (N) 1,494,504.070 (E) 573,671.858 DATUM AD83/(CORS96) DEPTH TO WATER 23.4

DATE START 10/28/2010 DATE FINISH 11/2/2010

CASING O. D. 4-1/2 In I. D. 4 In WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ In
 SAMPLER O. D. 2 In I. D. 1-3/8 In WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 In

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
75.0		SS27	31	42	45	39	20.4%	Dark Gray Lean CLAY (CL) Sample Recovery= 80% 2.0 TSF with Pocket Penetrometer 4.8 TSF with Torvane LL = 44%, PL = 21% (W-PL)
		SS28	81	79	74	31		Grey Sandy Angular GRAVEL Sample Recovery= 3% (W-NPL)
80.0								
85.0		SS29	11	31	103/3		14.1%	Dark Brown Silty SAND (SM) Sample Recovery= 90% (8' of Sand in casing overnight) (W-NPL)
90.0		SS30	11	15	18	21	23.4%	Dark Brown Lean CLAY (CL) Sample Recovery= 80% (W-PL)
95.0		SS31	15	27	28	30	17.4%	Grey Silty Medium SAND Sample Recovery= 40% Gs = 2.72 (W-NPL)
100.0								

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DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION M. Kress (GZA Field Geologist)
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HOLE DN-B
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PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 276.89
 ACTUAL COORDINATES (N) 1,494,504.070 (E) 573,671.858 DATUM AD83/(CORS96) DEPTH TO WATER 23.4

DATE START 10/28/2010 DATE FINISH 11/2/2010

CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	100.0	SS32	25	35	33	38	17.1%	(100.00) Dark Brown Poorly-Graded SAND with SILT (SP-SM) (W-NPL) Sample Recovery= 60%	

BOTTOM OF HOLE AT 102.00 ft

Notes:

- Borehole was backfilled with on-site soils.
- An automatic hammer was used to advance the 2-inch OD split spoon sampler.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
29-Oct-10	07:30			23.4'		

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DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION M. Kress (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER _____
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 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

PSN _____ BORNUM DN-B-3
 REGION Albany
 COUNTY Montgomery
 PIN D213622



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-B
 LINE _____
 STA _____
 OFFSET ft _____

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 257.8 (Top of Barge)
 ACTUAL COORDINATES (N) 1,494,585.582 (E) 573,754.552 DATUM AD83/(CORS96) DEPTH TO WATER 1.6 (To River)

DATE START 9/2/2010 DATE FINISH 9/10/2010
 CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
0.0							(0.00) Top of Barge Deck (Elev. 257.8) Barge Deck= 1.6 Ft.	
							----- Water Surface (Elev. 256.2) Advanced casing through 8.4-foot water column to mudline. No Sampling Required	
5.0								
10.0							(9.00) Encountered mudline at 10.0 feet. (Elev. 247.8)	
		SS1	7	4	9	10	10.0% == (10.00) Dark Grey Subrounded GRAVEL (W-NPL) Fill- Dark Brown SAND; with pieces of Brick (W-NPL) Sample Recovery=29%	
15.0		SS2	7	6	35	57	13.3% Brown Silty SAND with Gravel (SM) (W-NPL) Sample Recovery=29% Advanced tri-cone roller bit through cobbles and boulders encountered from 16.0-17.5 feet. Abandoned original boring location due to barge moving, caused casing to break off. Offset boring 5 feet east of original location and resumed sampling at 20.0 feet.	
20.0		SS3	4	50/4"			8.9% Dark Grey Sandy angular GRAVEL (W-NPL) Sample Recovery=8%	
		B-1					Advanced tri-cone bit through boulders from 20' to 24.9'	
		B-2					Advanced NX Core barrel through cobbles and boulders 21.5 to 24.9 feet (Quartz Sandstone/Quartzite). B-1 cored from 21.5 to 21.9 feet. B-2 cored from 21.9 to 24.9 feet.	
25.0								

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DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION John Beninati (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER _____
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 COUNTY Montgomery
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HOLE DN-B
 LINE _____
 STA _____
 OFFSET ft

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 257.8 (Top of Barge)
 ACTUAL COORDINATES (N) 1,494,585.582 (E) 573,754.552 DATUM AD83/(CORS96) DEPTH TO WATER 1.6 (To River)

DATE START 9/2/2010 DATE FINISH 9/10/2010
 CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	25.0	SS4	45	20	11	9	6.3%	No Recovery
	30.0	SS5	8	9	5	5		Brown Sandy GRAVEL with SILT Sample Recovery=35% (W-NPL)
	35.0	SS6	13	15	8	14	9.5%	Brown Poorly-Graded GRAVEL with Silt and Sand (GP-GM) Sample Recovery=45% (W-NPL)
	40.0	SS7	43	26	14	13	4.0%	Grey Sandy GRAVEL Sample Recovery=29% (W-NPL)
	45.0	SS8	9	7	10	35	16.9%	Brown Poorly-Graded SAND with Silt and Gravel (SP-SM) (W-NPL) Brown Silty fine SAND (W-NPL) Grey Silty fine SAND (W-NPL) Sample Recovery=75%
	50.0	B-3						Advanced tri-cone roller bit through cobbles/boulders from 47.2 to 49.3 feet. Advance NX Core barrel through Granodiorite boulder from 47.9' to 49.3'.

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PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 257.8 (Top of Barge)
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DATE START 9/2/2010 DATE FINISH 9/10/2010
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 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	50.0	SS9	19	28	24	33	10.3%	Grey Sandy GRAVEL (W-NPL) Grey Gravelly SAND (W-NPL) Silt lens from 50.5 to 50.7 feet. (W-NPL) Grey Sandy GRAVEL; Silty Sample Recovery=83% Advance tri-cone roller bit from 53 to 54 feet.
	55.0	SS10	12	25	24	23		Lost Circulation at 54.5 Feet No Recovery Spun casing with ease from 55 to 60 feet.
	60.0	SS11	12	22	34	38	9.8%	Brown Well-Graded SAND with Silt and Gravel (SW-SM) (W-NPL) Grey Sandy GRAVEL; Silty (W-NPL) Sample Recovery= 54%
	65.0	SS12	15	11	21	22	22.7%	Grey Silty fine SAND (W-NPL) Grey SILT (W-NPL) Sample Recovery=100% Spun casing with ease from 65 to 70 feet.
	70.0	SS13	26	29	23	52	10.6%	Grey-Brown Silty SAND with Gravel (SM) (W-NPL) Grey Silty CLAY with SAND; fine GRAVEL (M-PL) Advance tri-cone roller bit from 71.5 to 75 feet. Grey Silty CLAY with SAND; fine GRAVEL (M-PL) Grey SHALE fragments in end of split spoon sample. (W-NPL) Sample Recovery=79%
	75.0							

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DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
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HOLE DN-B
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PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 257.8 (Top of Barge)
 ACTUAL COORDINATES (N) 1,494,585.582 (E) 573,754.552 DATUM AD83/(CORS96) DEPTH TO WATER 1.6 (To River)

DATE START 9/2/2010 DATE FINISH 9/10/2010
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 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	75.0	SS14	23				7.4%	Grey angular GRAVEL (W-NPL)
				50/3"				(75.70) Grey SILT (M-NPL) Sample Recovery=25%
		NXR-1						(76.80) Medium dark grey to dark grey DOLOSTONE Recovery=88%, RQD=0%, R-1=3.5' (16 pieces), NX split-barrel, Core barrel plugged Aphanitic, Medium to Thickly Bedded, Intensely fractured, Horizontal to sub-horizontal fractures, Several mechanical breaks, Pieces range from 0.75 in. to 4 in., Hard, Fresh to Slightly Weathered.
	80.0	NXR-2						(80.30) Medium to dark grey DOLOSTONE Recovery=100%, RQD=19%, R-2=1.8' (9 pieces), NX split-barrel, Core barrel plugged Aphanitic, Medium to Thickly Bedded, Intensely fractured, Horizontal to sub-horizontal fractures, Several mechanical breaks, Pieces range from 0.65 in. to 4 in., Hard, Fresh to Slightly Weathered.
		NXR-3						(82.10) Medium to dark grey DOLOSTONE Recovery=94%, RQD=60%, R-3=5' (14 pieces), NX split-barrel Aphanitic, Medium to Thickly Bedded, Moderately fractured, Fractures generally horizontal to sub horizontal, 45 deg. fracture at 85.9', Several mechanical breaks, Pieces range from 0.37 in. to 9 in., Hard, Fresh to Slightly Weathered, Secondary mineralizations (calcite) (82.6' - 83.0') Strength at Peak Deviator Stress = 26.25 KSI
	85.0							

BOTTOM OF HOLE AT 87.10 ft

- Notes:
 1. An automatic hammer was used to advance the 2-inch OD split spoon sampler.
 2. Water level measurements reflect surface elevation of Mohawk River.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
02-Sep-10	07:00			256.20		
03-Sep-10	07:00			256.00		
07-Sep-10	10:00			256.00		

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DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION John Beninati (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER _____
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 STRUCTURE NAME _____ B.I.N. _____

PSN _____ BORNUM DN-B-4
 REGION Albany
 COUNTY Montgomery
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NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-B
 LINE _____
 STA _____
 OFFSET ft _____

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 257.9 (Top of Barge)
 ACTUAL COORDINATES (N) 1,494,565.656 (E) 573,786.229 DATUM AD83/(CORS96) DEPTH TO WATER 1.6 (To River)

DATE START 9/13/2010 DATE FINISH 9/14/2010
 CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
0.0							(0.00) Top of Barge Deck (Elev. 257.9) Barge Deck= 1.6 Ft.	
5.0							----- Water Surface (Elev. 256.3) Advanced casing through 10.4-foot water column to mudline. No Sampling Required	
10.0								
15.0		SS1	12	12	16	11	8%	(12.00) Encountered mudline 12.0 feet. (Elev. 245.9) Very difficult to advance casing from 12 to 17 feet. Brown and Grey rounded to angular GRAVEL, Sandy (W-NPL) Sample Recovery= 35% Woodchips observed in return water. Advanced tri-cone roller bit from 14 to 15.5 feet.
20.0		B-1						Advanced tri-cone roller bit from 16 to 16.8 feet. Encountered Quartz Sandstone Boulder from 16.8 to 17.6 ft. Advanced NX core barrel through boulder (B-1) from 16.8 to 17.6 feet. (W-NPL)
20.0		SS2	17	6	5	6	20.1%	Brown Poorly-Graded SAND with GRAVEL (SP) (Fill) Sample Recovery= 37% Wood observed in bottom of split spoon. Very difficult to advance casing from 17.6 feet. Cobbles and boulders encountered from 17.6 to 22 ft. Advance tri-cone roller bit from 18.2 to 19.7 feet.
25.0		SS3	16	15	25	14	4.4%	Grey subrounded to angular GRAVEL (W-NPL) Sample Recovery= 12% Wood observed in bottom of split spoon. Advanced tri-cone roller bit from 22 to 27.5 feet.

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 SOIL & ROCK DESCRIPTION John Beninati (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER _____
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PSN BORNUM DN-B-4
 REGION Albany
 COUNTY Montgomery
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NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-B
 LINE
 STA
 OFFSET ft

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 257.9 (Top of Barge)
 ACTUAL COORDINATES (N) 1,494,565.656 (E) 573,786.229 DATUM AD83/(CORS96) DEPTH TO WATER 1.6 (To River)

DATE START 9/13/2010 DATE FINISH 9/14/2010
 CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	25.0							
		SS4	4	4	5	29	14.1%	Brown Well-Graded SAND (SW) Sample Recovery= 50% (W-NPL)
	30.0							Lost water circulation at 31.5 ft.
		SS5	28	17	17	20	6.2%	Brown to grey Sandy subrounded to angular GRAVEL (W-NPL) Sample Recovery= 37% Advance tri-cone roller bit from 34 to 34.5 feet.
	35.0							
		SS6	32	20	12	26	3.1%	Brown Poorly-Graded SAND with Silt and Gravel (SP-SM) (W-NPL) Sample Recovery= 41% Very difficult to advance casing from 39 to 40 feet.
	40.0							
		SS7	5	50/3"			0.2%	Grey subrounded to angular GRAVEL (W-NPL) Sample Recovery= 12% Very difficult to advance casing from 42.5 to 45.5 feet.
	45.0							
		SS8	15	48	50/1"		6.9%	Grey Sandy subrounded to angular GRAVEL, Silty (W-NPL) Sample Recovery= 41%
	50.0							

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DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION John Beninati (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER
 DATE APPROVED
 RESIDENT ENGINEER
 STRUCTURE NAME B.I.N.

PSN BORNUM DN-B-4
 REGION Albany
 COUNTY Montgomery
 PIN D213622



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-B
 LINE _____
 STA _____
 OFFSET ft

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 257.9 (Top of Barge)
 ACTUAL COORDINATES (N) 1,494,565.656 (E) 573,786.229 DATUM AD83/(CORS96) DEPTH TO WATER 1.6 (To River)

DATE START 9/13/2010 DATE FINISH 9/14/2010
 CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	50.0							Began advancing 3" casing inside 4" casing at 50 ft. Moderately difficult to advance casing from 52 to 57 feet.
		SS9	7	8	6	24	12.3%	Brown Well-Graded SAND with Gravel (SW) Sample Recovery= 58% (W-NPL)
	55.0							
		SS10	5	3	14	22	15.6%	Brown and grey Gravelly SAND Sample Recovery= 37% (W-NPL) Encountered flowing sands from 56 to 62 ft.
	60.0							
		SS11	0	0	5	2	16.6%	Pushed split spoon from 62 to 63 feet due to flowing sands. (W-NPL) Sampled from 63 to 64 feet. Brown Poorly-Graded SAND with SILT (SP-SM) Sample Recovery= 50%
	65.0							
		SS12	10	14	12	14	24.8%	Grey Lean CLAY (CL) Sample Recovery= 75% (W-PL)
	70.0							Difficult to advance casing from 69.5 to 70.2 feet.
		SS13	16	19	52	53	8.6%	6" Grey-Brown Silty GRAVEL with Sand (GM) (W-NPL) 6" Weathered Dolostone fragments mixed with Sandy SILT Sample Recovery= 50%
	75.0							Difficult to advance casing from 74 to 77 feet.

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION John Beninati (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

PSN BORNUM DN-B-4
 REGION Albany
 COUNTY Montgomery
 PIN D213622



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-B
 LINE
 STA
 OFFSET ft

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 257.9 (Top of Barge)

ACTUAL COORDINATES (N) 1,494,565.656 (E) 573,786.229 DATUM AD83/(CORS96) DEPTH TO WATER 1.6 (To River)

DATE START 9/13/2010 DATE FINISH 9/14/2010

CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING In
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 In

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	75.0								
		SS14	25					5.9%	(77.00) Grey to dark grey Silty Coarse SAND and fine to medium angular (W-NPL) GRAVEL
		NXR-1		25					(78.00) Sample Recovery= 73% Medium to dark grey DOLOSTONE. Recovery=100%, RQD=49.2%, R-1=5' (18 pieces), NX split-barrel Aphanitic, Medium to Thickly bedded, Intensely fractured, Horizontal to sub-horizontal fractures, Vertical fracture from 79.6 to 79.7 ft, Several mechanical breaks, Pieces range from 1" to 8", Hard, Fresh to Slightly Weathered
	80.0								
		NXR-2							(83.00) Medium to dark grey DOLOSTONE Recovery=88%, RQD=32%, R-2=5' (17 pieces), NX split-barrel Aphanitic, Medium to Thickly bedded, Intensely fractured, Horizontal to sub-horizontal fractures, Vertical fracture between 84.8-85.3'. Several mechanical breaks, Pieces range from 1" to 6.5". Hard, Fresh to Slightly Weathered. (85.5' - 85.9') Strength at Peak Deviator Stress = 20.36 KSI, Strain at Peak Deviator Stress = 0.33%, Secant Modulus at 50% of Total Failure Stress = 5.23 PSI EE+06
	85.0								

BOTTOM OF HOLE AT 88.00 ft

Notes:

1. An automatic hammer was used to advance the 2-inch OD split spoon sampler.
2. Water level measurements reflect surface elevation of Mohawk River.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
13-Sep-10	12:30			256.3'		
14-Sep-10	07:00			256.3'		

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION John Beninati (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER
 DATE APPROVED
 RESIDENT ENGINEER
 STRUCTURE NAME B.I.N.

PSN BORNUM DN-B-5
 REGION Albany
 COUNTY Montgomery
 PIN D213622



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-B
 LINE
 STA
 OFFSET ft

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 257.9 (Top of Barge)
 ACTUAL COORDINATES (N) 1,494,782.573 (E) 573,929.951 DATUM AD83/(CORS96) DEPTH TO WATER 1.6 (To River)

DATE START 9/21/2010 DATE FINISH 9/21/2010
 CASING O.D. 4-1/2 in I.D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING In
 SAMPLER O.D. 2 in I.D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 In

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	0.0							(0.00) Top of Barge Deck (Elev. 257.9) Barge Deck= 1.6 Ft.	
	5.0							----- Water Surface (Elev. 256.3) Advanced casing through 10.4-foot water column to mudline. No Sampling Required	
	10.0								
	12.0	SS1	4	29	24	50/3"	7.7%	(12.00) Encountered mudline at 12.0 feet. (Elev. 245.9) (W-NPL) Brown Well-Graded GRAVEL with Silt and Organic Material Sample Recovery=43%	
	15.0							(14.00) Difficult to advance casing through cobbles/boulders from 14 to 17 ft.	
	17.0	NXR-1						(17.00) Grey to dark grey DOLOSTONE. Recovery=86%, RQD=77%, R-1=1.5' (3 pieces), NX split-barrel, Core barrel plugged	
	18.5	NXR-2						(18.50) Aphanitic, Thinly Bedded, Moderately fractured, Horizontal to sub-horizontal fractures, Pieces range from 2.5" to 8", Hard, Fresh to Slightly Weathered.	
	20.0							Grey to dark grey DOLOSTONE. Recovery=100%, RQD=79, R-2=4' (8 pieces), NX split-barrel, Core barrel plugged Aphanitic, Thinly Bedded, Slightly to Moderately Fractured, Horizontal to sub-horizontal fractures, Pieces range from 2.5 to 14", Hard, Fresh to Slightly Weathered	
	22.5	NXR-3						(22.50) Grey to dark grey DOLOSTONE. Recovery=100%, RQD=95%, R-3=5' (5 pieces), NX split-barrel Aphanitic, Thinly Bedded, Moderately to Slightly fractured, Horizontal to sub-horizontal fractures, Pieces range from 2.5" to 28", Hard, Fresh.	
	25.0								

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DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION Gabe Lewis (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER
 DATE APPROVED
 RESIDENT ENGINEER
 STRUCTURE NAME B.I.N.

PSN BORNUM DN-B-5
 REGION Albany
 COUNTY Montgomery
 PIN D213622



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-B
 LINE _____
 STA _____
 OFFSET ft

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 257.9 (Top of Barge)

ACTUAL COORDINATES (N) 1,494,782.573 (E) 573,929.951 DATUM AD83/(CORS96) DEPTH TO WATER 1.6 (To River)

DATE START 9/21/2010 DATE FINISH 9/21/2010

CASING O.D. 4-1/2 in I.D. 4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O.D. 2 in I.D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	25.0							(22.8' - 23.2') Strength at Peak Deviator Stress = 12.37 KSI	
BOTTOM OF HOLE AT 27.50 ft									

Notes:

1. An automatic hammer was used to advance the 2-inch OD split spoon sampler.
2. Water level measurements reflect surface elevation of Mohawk River.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
21-Sep-10	07:00			256.3'		

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DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION Gabe Lewis (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

PSN _____ BORNUM DN-B-6
 REGION Albany
 COUNTY Montgomery
 PIN D213622



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-B
 LINE _____
 STA _____
 OFFSET ft _____

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 257.9 (Top of Barge)
 ACTUAL COORDINATES (N) 1,494,743.835 (E) 573,952.371 DATUM AD83/(CORS96) DEPTH TO WATER 1.6 (To River)

DATE START 9/21/2010 DATE FINISH 9/21/2010
 CASING O.D. 4-1/2 in I.D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O.D. 2 in I.D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
0.0								(0.00) Top of Barge Deck (Elev. 257.9) Barge Deck= 1.6 Ft.	
5.0								----- Water Surface (Elev. 256.3) Advanced casing through 11.4-foot water column to mudline. No Sampling Required	
10.0									
		SS1	23					(13.00) Encountered mudline at 13.0 feet. (Elev. 244.9) Dark grey Dolostone fragments Sample Recovery= 9%	
			50/5"					
15.0		NXR-1						(14.50) Medium grey to dark grey DOLOSTONE Recovery=98%, RQD=64%, R-1=5' (14 pieces), NX split-barrel Aphanitic, Medium Bedded, Moderately fractured, Horizontal to sub-horizontal fractures, Several mechanical breaks, Pieces range from 1" to 7", Hard, Fresh to Slightly Weathered. (15.7' - 16.1') Strength at Peak Deviator Stress = 31.17 KSI	
20.0		NXR-2						(19.50) Medium grey to dark grey DOLOSTONE Recovery=98%, RQD=73%, R-2=5' (12 pieces), NX split-barrel Aphanitic, Medium to Thickly Bedded, Slightly to Moderately Fractured, Horizontal to sub-horizontal fractures, Pieces range from 1" to 12", Hard, Fresh	
								(24.50) BOTTOM OF HOLE AT 24.50 ft	

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION Gabe Lewis (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

PSN _____ BORNUM DN-B-6
 REGION Albany
 COUNTY Montgomery
 PIN D213622



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-B
 LINE _____
 STA _____
 OFFSET ft

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 257.9 (Top of Barge)
 ACTUAL COORDINATES (N) 1,494,743.835 (E) 573,952.371 DATUM AD83/(CORS96) DEPTH TO WATER 1.6 (To River)

DATE START 9/21/2010 DATE FINISH 9/21/2010
 CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
			6	12	18	24			

Notes:

1. An automatic hammer was used to advance the 2-inch OD split spoon sampler.
2. Water level measurements reflect surface elevation of Mohawk River.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
21-Sep-10	07:00			256.3'		

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION Gabe Lewis (GZA Field Geologist)
 REG GEOTECHNICAL
 ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

PSN _____ BORNUM DN-B-7
 REGION Albany
 COUNTY Montgomery
 PIN D213622



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-B
 LINE _____
 STA _____
 OFFSET ft _____

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 275.432
 ACTUAL COORDINATES (N) 1,494,823.173 (E) 574,013.345 DATUM AD83/(CORS96) DEPTH TO WATER Not Encountered

DATE START 11/2/2010 DATE FINISH 11/3/2010
 CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0	SS1	5	21	29	46	15.3%	Black Topsoil and Organics (Roots) (M-NPL) Sample Recovery=20% (D-NPL) Dark Brown Silty SAND with GRAVEL (SM) (FILL)
		SS2	16	6	6	10	2.2%	Grey-Brown Poorly-Graded GRAVEL with Silt and Sand (GP-GM)(D-NPL) (FILL) Sample Recovery=20% Lost drilling water return at 2 feet.
	5.0	SS3	4	2	2	6		Grey Sandy Angular GRAVEL (FILL) (W-NPL) Sample Recovery=2%
		SS4	6	3	2	2		Grey Sandy Angular GRAVEL (FILL) (W-NPL) Sample Recovery=2%
		SS5	4	4	9	14		Grey Sandy Angular GRAVEL; SILT (W-NPL) Sample Recovery=2%
	10.0	SS6	102					No Recovery (10.50) Sample Recovery=0% - Difficult to advance casing from 10 feet. Advanced tri-cone roller bit from 10.5' to 12.5' Advanced casing to 12' Cobbles encountered from approximately 10-13.8 feet. Advanced tri-cone roller bit to 14'- very hard Advanced casing to 14'
	15.0	NXR-1						(14.00) Started coring at 14' Medium Grey Dolomitic LIMESTONE Recovery = 80%, RQD = 37.5%, R-1=5' (18 pieces), NX split-barrel Aphanitic, Medium to Thickly Bedded, Intensely Fractured (horizontal to subhorizontal), Few Mechanical Breaks, Pieces range from 0.4" to 7.8", Hard, Fresh to Slightly Weathered, Shaly Partings. (14.2' - 14.6') Strength at Peak Deviator Stress = 18.50 KSI, Strain at Peak Deviator Stress = 0.23%, Secant Modulus at 50% of Total Failure Stress = 6.40 PSI EE+06
	20.0	NXR-2						(19.00) Medium Grey DOLOSTONE Recovery = 78.3%, RQD = 57.5%, R-2=5' (7 pieces), NX split-barrel Aphanitic, Medium Bedded, Moderately Fractured (horizontal), Few Mechanical Breaks, Pieces range from 1.1" to 13.8", Hard, Fresh to Slightly Weathered
	25.0	NXR-3						(24.00) Medium Grey Dolomitic LIMESTONE Recovery = 100%, RQD = 75%, R-3=5' (9 pieces), NX split barrel

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION M. Kress (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

PSN _____ BORNUM DN-B-7
 REGION Albany
 COUNTY Montgomery
 PIN D213622



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-B
 LINE _____
 STA _____
 OFFSET ft

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 275.432
 ACTUAL COORDINATES (N) 1,494,823.173 (E) 574,013.345 DATUM AD83/(CORS96) DEPTH TO WATER Not Encountered

DATE START 11/2/2010 DATE FINISH 11/3/2010
 CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	25.0		6	12	18	24		Aphanitic, Medium Bedded, Horizontal Fractures, 45 degree fracture at 24.5' to 26.7', Vertical fracture at 27.5', Few Mechanical Breaks, Pieces range from 0.8" to 15.1", Hard, Fresh to Slightly Weathered

BOTTOM OF HOLE AT 29.00 ft

Notes:

- Borehole was backfilled with on-site material.
- An automatic hammer was used to advance the 2-inch OD split spoon sampler.

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DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION M. Kress (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

PSN BORNUM DN-B-8
 REGION Albany
 COUNTY Montgomery
 PIN D213622



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-B
 LINE
 STA
 OFFSET ft

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 274.702
 ACTUAL COORDINATES (N) 1,494,820.743 (E) 574,082.400 DATUM AD83/(CORS96) DEPTH TO WATER Not Encountered

DATE START 11/2/2010 DATE FINISH 11/3/2010
 CASING O. D. 4-1/2 in I. D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	0.0	SS1	2	5	5	5	29.7%	Black Topsoil Brown Lean CLAY (CL) (M-PL) 4.0 TSF with Pocket Penetrometer 7.2 TSF with Torvane LL = 44%, PL = 22%	
		SS2	5	5	6	7	31.1%	Brown Lean CLAY (CL) (M-PL) 3.0 TSF with Pocket Penetrometer 7.0 TSF with Torvane LL = 46%, PL = 25%	
	5.0	SS3	2	1	1	5	22.8%	GRAVEL; BRICK FRAGMENTS @ 4.5' Brown Clayey SAND with Gravel (SC) (M-PL) 1.5 TSF with Pocket Penetrometer 3.0 TSF with Torvane	
		SS4 NXR-1	50/2"					(6.00) 3.0 TSF with Torvane (M-NPL) (6.20) LL = 34%, PL = 21% Light Brown Sandy GRAVEL; Rock Fragments	
	10.0							Interbedded DOLOSTONE and Dolomitic LIMESTONE Recovery=98%, RQD=72.5%, R-1=5' (12 pieces), NX split-barrel Medium Grey with Light Grey Mottling (Limestone) Aphanitic, Medium Bedded, Intensely to Moderately Fractured (subhorizontal), Hard to Moderately Hard, Fresh to Slightly Weathered, Secondary Mineralization (calcite), Healed subvertical fracture from 10.5-11.0', Core pieces size range from 1" to 13"	
		NXR-2						(11.00) Interbedded DOLOSTONE and Dolomitic LIMESTONE Recovery=100%, RQD=50.8%, R-2=5' (18 pieces), NX split-barrel Medium Grey with Light Grey Mottling (Limestone) Aphanitic, Medium to Thinly Bedded, Intensely Fractured (horizontal to sub-horizontal), Hard to Moderately Hard, Slightly Freshly Weathered, Secondary Mineralization (calcite), Core pieces size range from 0.5" to 9"	
	15.0								

BOTTOM OF HOLE AT 16.00 ft

Notes:

- Borehole was backfilled with on-site soils.
- An automatic hammer was used to advance the 2-inch OD split spoon sampler.

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DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION M. Kress (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER
 DATE APPROVED
 RESIDENT ENGINEER
 STRUCTURE NAME B.I.N.

PSN _____ BORNUM DN-W-9
 REGION Albany
 COUNTY Montgomery
 PIN D213622



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE DN-W
 LINE _____
 STA _____
 OFFSET ft _____

PROJECT Erie Canal MP 192.0 Amsterdam Pedestrian Bridge, Mohawk River, Amsterdam, NY SURF. ELEV. 274.339

ACTUAL COORDINATES (N) 1,494,788.749 (E) 574,148.569 DATUM AD83/(CORS96) DEPTH TO WATER Not Encountered

DATE START 11/2/2010 DATE FINISH 11/3/2010

CASING O.D. 4-1/2 in I.D. 4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O.D. 2 in I.D. 1-3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0	SS1	3	10	8	8	11.9%	Dark Brown Topsoil to 0.5' Dark Brown Silty SAND with Gravel (SM); BRICK Fragments (FILL) Sample Recovery=100%
		SS2	21	11	21	21	23.4%	Brown Lean CLAY with SAND (CL) to 3' (FILL) (M-PL) Sample Recovery=70% Brown Gravelly SAND (FILL) (M-NPL)
	5.0	SS3	6	12	14	6	25.0%	Brown Sandy Lean CLAY (CL) (M-PL) Sample Recovery=60%
		SS4	8	4	3	3	24.6%	Brown Clayey SAND with Gravel (SC) (M-LPL) Sample Recovery=50% Drill water lost at 8 feet.
		SS5	50/5"					(8.00) Grey Sandy GRAVEL (M-NPL) Sample Recovery=50%
	10.0	NXR-1						(9.00) Casing refusal at 9.0' Interbedded DOLOSTONE and Dolomitic LIMESTONE Recovery=86.7%, RQD=55%, R-1=5' (10 pieces), NX split-barrel Medium to Dark Grey with Light Grey Mottling (Limestone) Aphanitic, Medium Bedded (subhorizontal), Intensely to Moderately Fractured, Hard to Moderately Hard, Fresh to Slightly Weathered, Core pieces size range from 1" to 14"
	15.0	NXR-2						(14.00) Interbedded DOLOSTONE and Dolomitic LIMESTONE Recovery=100%, RQD=70.8%, R-2=5' (11 pieces), NX split-barrel Medium to Dark Grey, Aphanitic, Medium Bedded, Intensely to Moderately Fractured (subhorizontal), Hard to Moderately Hard, Fresh to Slightly Weathered, Secondary Mineralization (calcite), Intermittent Shale Partings, Core pieces range from 1" to 10.5"

BOTTOM OF HOLE AT 19.00 ft

Notes:

1. A monitor well was installed to a depth of 19 feet.
2. An automatic hammer was used to advance the 2-inch OD split spoon sampler.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
05-Nov-10	09:00			DRY		

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR Brad Perry; Andy Conant (ATL)
 SOIL & ROCK DESCRIPTION M. Kress (GZA Field Geologist)
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____