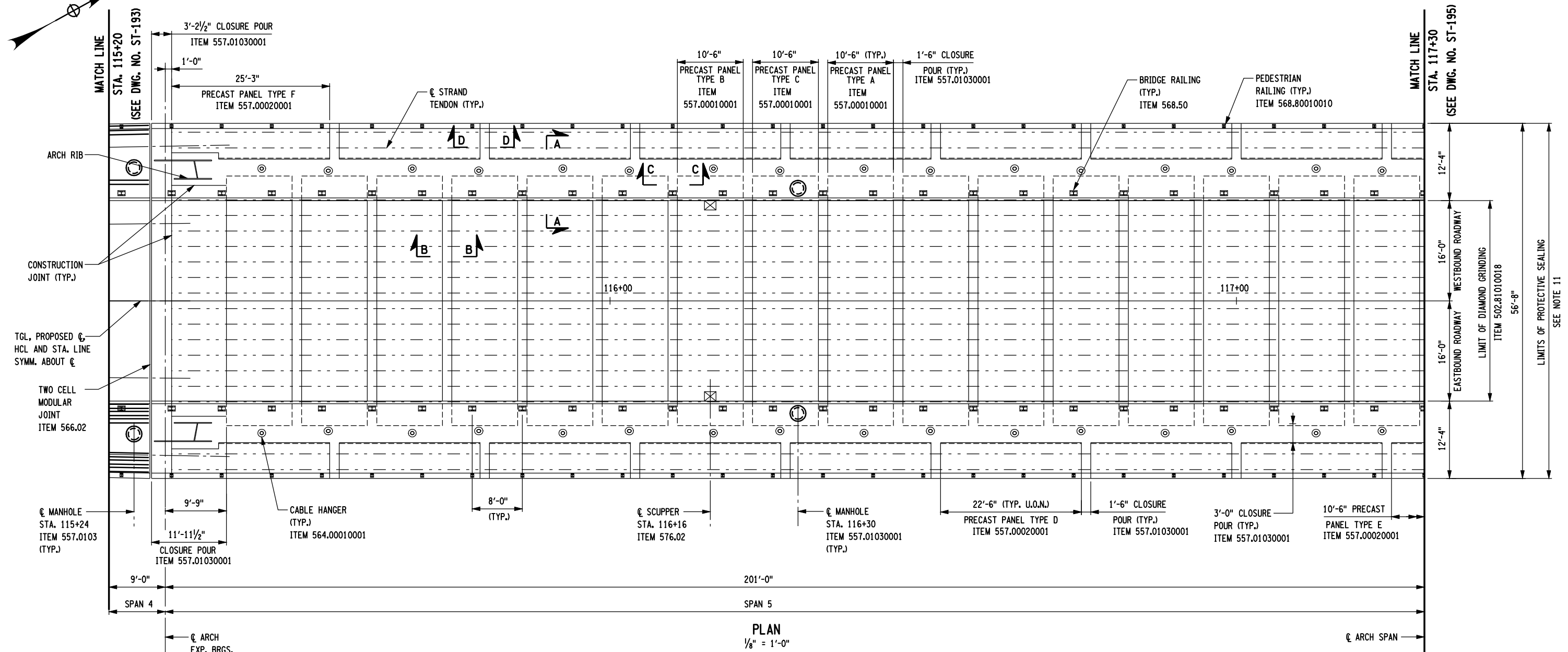


D. SANTORO CHECKED BY G. TOW
 G. WOLLMANN DRAFTED BY C. BROSDO
 C. ENGEL CHECKED BY I.F. POTTS
 I.P. ZOLI JOB MANAGER
 DESIGNER
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PLAN
1/8" = 1'-0"

NOTES:

- FOR GENERAL STRUCTURAL NOTES, SEE DWG NOS. ST-13 TO ST-15.
- FOR SECTIONS A-A, B-B, C-C, AND D-D SEE DWG NO. ST-209.
- FOR TYPICAL APPROACH SPAN 4 DECK SECTION, SEE DWG NO. ST-202.
- FOR TYPICAL PRECAST DECK PANEL SECTION, SEE DWG. NO. ST-203.
- FOR DECK PANEL DETAILS AND REINFORCEMENT, SEE DWG. NOS. ST-203 TO ST-211B.
- PRECAST DECK PANELS (TYPE A, B, C AND TYPE C') SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST TENSIONED CONCRETE DECK SYSTEM ITEM 557.00010001.
- PRECAST SIDEWALK PANELS (TYPE D, TYPE E AND TYPE F) SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST TENSIONED CONCRETE SIDEWALK ITEM 557.00020001.
- STRAND TENDONS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST TENSIONED CONCRETE DECK SYSTEM ITEM 557.00010001 AND PRECAST, POST TENSIONED CONCRETE SIDEWALK ITEM 557.00020001 AS APPLICABLE.
- FOR PRECAST PANEL TYPE A DETAILS, SEE DWG NO. ST-204. FOR PRECAST PANEL TYPE B DETAILS, SEE DWG NOS. ST-205. FOR PRECAST PANEL C DETAILS, SEE DWG. NO. ST-205A. FOR PRECAST PANELS D AND E DETAILS, SEE DWG. NO. ST-206. FOR PRECAST PANEL TYPE F DETAILS, SEE DWG. NO. ST-207.
- ALL REINFORCEMENT IN THE CLOSURE POURS SHALL BE GALVANIZED AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR GALVANIZED BAR REINFORCEMENT FOR STRUCTURES ITEM 556.0203.
- ROADWAY AND SIDEWALK SLABS SHALL BE SEALED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATION SECTION 559 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS ITEM 559.18960118.
- CONCRETE FOR CLOSURE POUR SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ARCH SPAN CLOSURE PLACEMENT CONCRETE TYPE 2 FRICTION ITEM 557.01030001.
- ALL REINFORCEMENT IN THE PRECAST PANELS SHALL BE GALVANIZED AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST TENSIONED CONCRETE DECK SYSTEM ITEM 557.00010001 OR PRECAST, POST TENSIONED CONCRETE SIDEWALK ITEM 557.00020001 AS APPROPRIATE.
- FOR BRIDGE RAILING AND BRUSH CURB DETAILS, SEE DWG. NOS ST-240 TO ST-242.
- FOR PEDESTRIAN RAILING DETAILS, SEE DWG. NOS. ST-243 AND ST-244.
- FOR SCUPPER DETAILS, SEE DWG. NOS. ST-228 AND ST-229.
- FOR CABLE HANGER DETAILS, SEE DWG. NOS. ST-169 TO ST-176.
- FOR MODULAR JOINT DETAILS, SEE DWG. NOS. ST-232 AND ST-233.

PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
 ON: 03/29/10



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

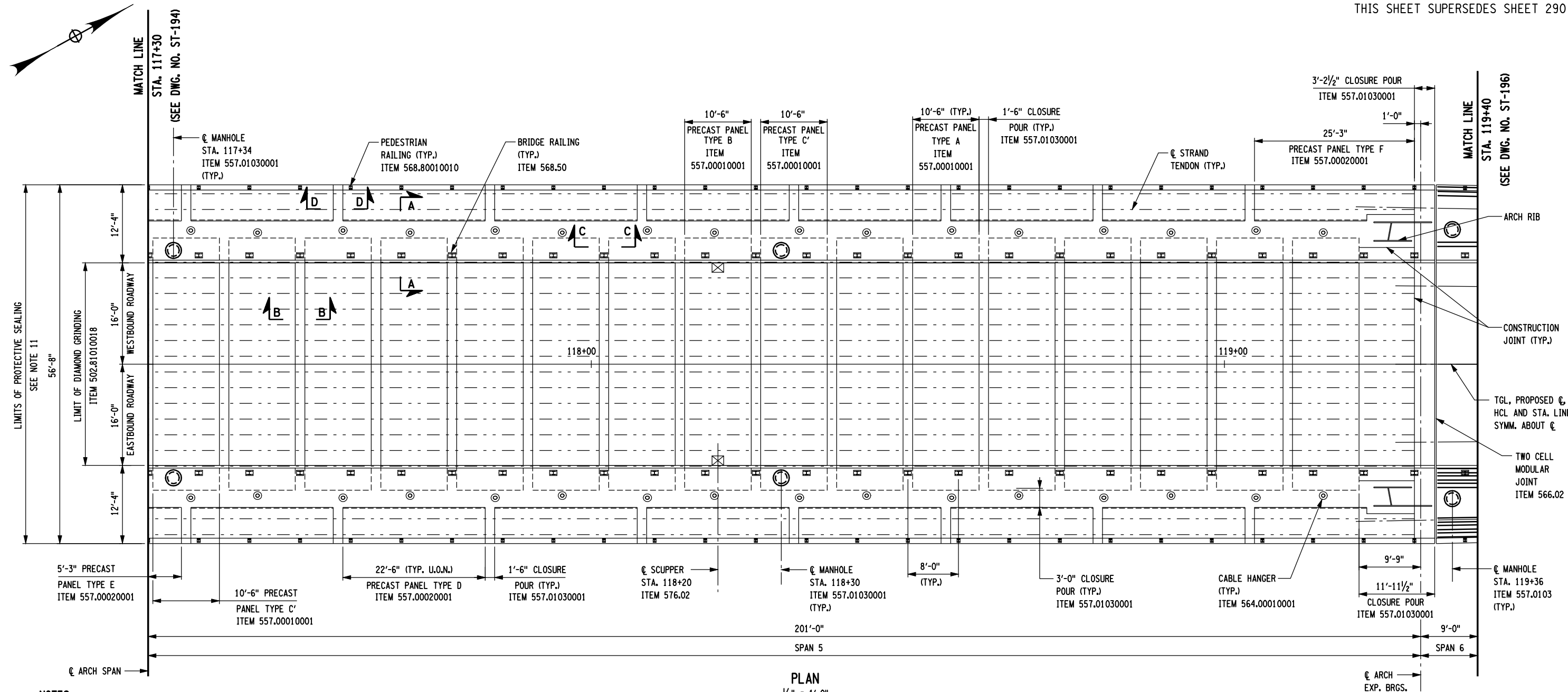
AS BUILT REVISIONS DESCRIPTION OF WORK:
 SIGNATURE _____ DATE _____
 DOCUMENT NAME:

NYS ROUTE 185, S.H. 9527
 VT ROUTE 17
 LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN
 COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

PIN 1805.81
 NYS ROUTE 185
 PS&E DATE MAR. 1, 2010
 AMENDMENT NO. 1
 DATE MAR 29, 2010

BRIDGES BIN 5521180	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D261458
PARTIAL DECK PLAN - 8		DRAWING NO. ST-194 SHEET NO. 309A OF 432A	





PLAN
1/8" = 1'-0"

NOTES:

- FOR GENERAL STRUCTURAL NOTES, SEE DWG NOS. ST-13 TO ST-15.
- FOR SECTIONS A-A, B-B, C-C, AND D-D SEE DWG NO. ST-209.
- FOR TYPICAL APPROACH SPAN 6 DECK SECTION, SEE DWG NO. ST-202.
- FOR TYPICAL PRECAST DECK PANEL SECTION, SEE DWG. NO. ST-203.
- FOR DECK PANEL DETAILS AND REINFORCEMENT, SEE DWG. NOS. ST-203 TO ST-211B.
- PRECAST DECK PANELS (TYPE A, B, C AND TYPE C') SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST TENSIONED CONCRETE DECK SYSTEM ITEM 557.00010001.
- PRECAST SIDEWALK PANELS (TYPE D, TYPE E AND TYPE F) SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST TENSIONED CONCRETE SIDEWALK ITEM 557.00020001.
- STRAND TENDONS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST TENSIONED CONCRETE DECK SYSTEM ITEM 557.00010001 AND PRECAST, POST TENSIONED CONCRETE SIDEWALK ITEM 557.00020001 AS APPLICABLE.
- FOR PRECAST PANEL TYPE A DETAILS, SEE DWG NO. ST-204. FOR PRECAST PANEL TYPE B DETAILS, SEE DWG NOS. ST-205. FOR PRECAST PANEL C DETAILS, SEE DWG. NO. ST-205A. FOR PRECAST PANELS D AND E DETAILS, SEE DWG. NO. ST-206. FOR PRECAST PANEL TYPE F DETAILS, SEE DWG. NO. ST-207.
- ALL NEW REINFORCEMENT IN THE CLOSURE POURS SHALL BE GALVANIZED AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR GALVANIZED BAR REINFORCEMENT FOR STRUCTURES ITEM 556.0203.
- ROADWAY AND SIDEWALK SLABS SHALL BE SEALED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATION SECTION 559 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS ITEM 559.18960118.
- CONCRETE FOR CLOSURE POUR SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ARCH SPAN CLOSURE PLACEMENT CONCRETE TYPE 2 FRICTION ITEM 557.01030001.
- ALL REINFORCEMENT IN THE PRECAST PANELS SHALL BE GALVANIZED AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST TENSIONED CONCRETE DECK SYSTEM ITEM 557.00010001 OR PRECAST, POST TENSIONED CONCRETE SIDEWALK ITEM 557.00020001 AS APPROPRIATE.
- FOR BRIDGE RAILING AND BRUSH CURB DETAILS, SEE DWG. NOS ST-240 TO ST-242.
- FOR PEDESTRIAN RAILING DETAILS, SEE DWG. NOS. ST-243 AND ST-244.
- FOR SCUPPER DETAILS, SEE DWG. NOS. ST-228 AND ST-229.
- FOR CABLE HANGER DETAILS, SEE DWG. NOS. ST-169 TO ST-176.
- FOR MODULAR JOINT DETAILS, SEE DWG. NOS. ST-232-ST-233.



PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
ON: 03/29/10



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AS BUILT REVISIONS
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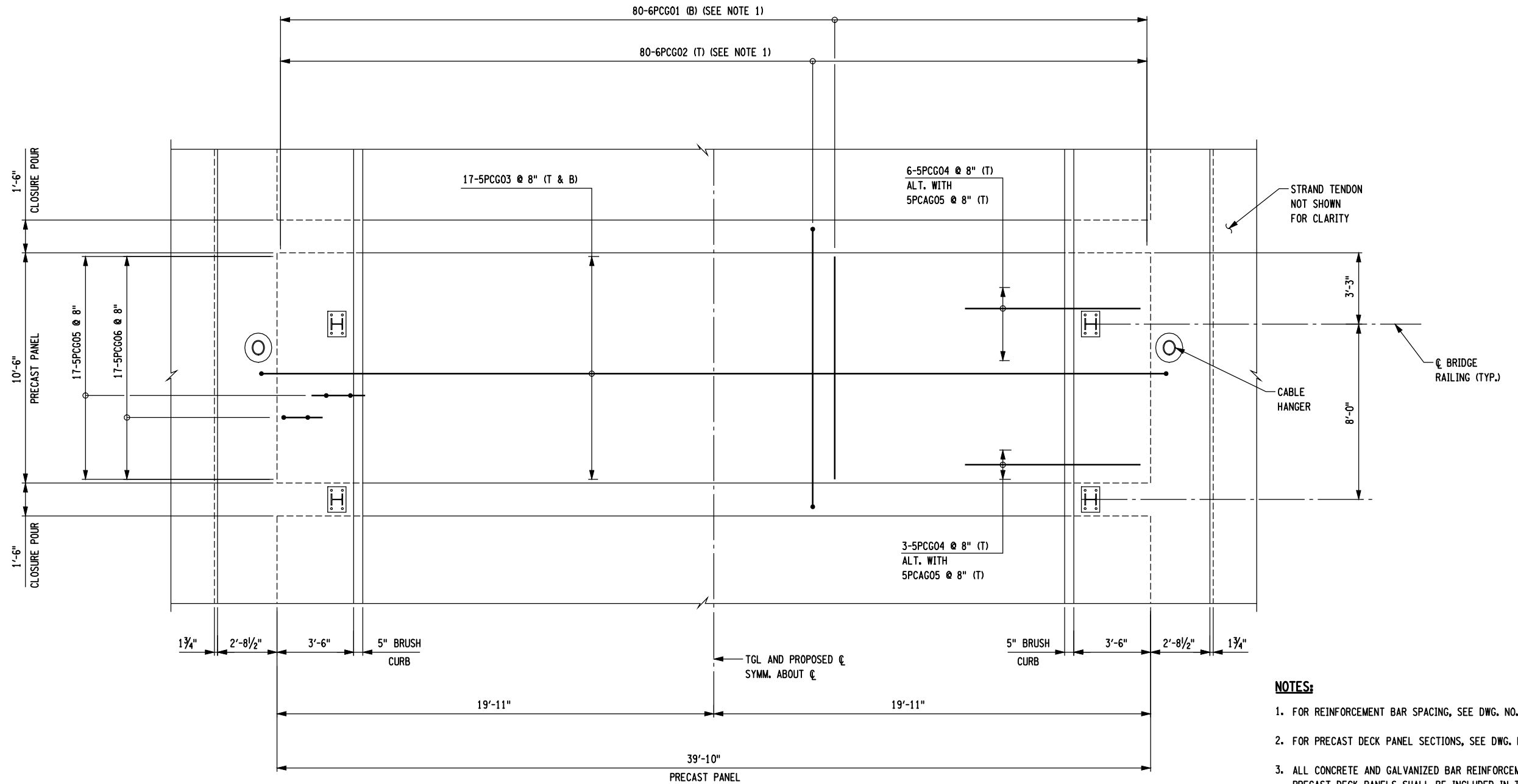
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DOCUMENT NAME:

NYS ROUTE 185, S.H. 9527
VT ROUTE 17
LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN
COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

PIN 1805.81
NYS ROUTE 185
PS&E DATE MAR. 1, 2010
AMENDMENT NO. 1
DATE MAR 29, 2010

BRIDGES BIN 5521180	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D261458
PARTIAL DECK PLAN - 9		DRAWING NO. ST-195 SHEET NO. 310A OF 432A	

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 DATE/TIME = 29-MAR-2010 05:42
 USER = slam
 DESIGN SUPERVISOR I.P. ZOLI
 JOB MANAGER I.F. POTTS
 DESIGNED BY C. ENGEL
 ESTIMATED BY G. WOLLMANN
 DRAFTED BY C. BROSDO
 CHECKED BY D. SANTORO
 CHECKED BY G. TOW



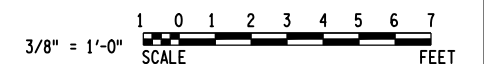
PRECAST PANEL TYPE A - PLAN
3/8" = 1'-0"

NOTES:

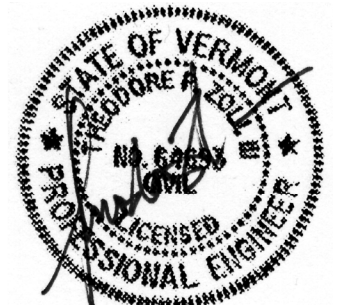
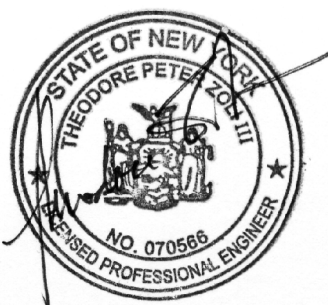
- FOR REINFORCEMENT BAR SPACING, SEE DWG. NO. ST-203.
- FOR PRECAST DECK PANEL SECTIONS, SEE DWG. NO. ST-203.
- ALL CONCRETE AND GALVANIZED BAR REINFORCEMENT IN THE PRECAST DECK PANELS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST TENSIONED CONCRETE DECK SYSTEM, ITEM 557.00010001.
- ALL GALVANIZED BAR REINFORCEMENT IN THE CLOSURE POUR SHALL BE INCLUDED IN THE UNIT PRICE BID FOR GALVANIZED BAR REINFORCEMENT FOR STRUCTURES, ITEM 556.0203.
- ALL CLOSURE POUR CONCRETE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ARCH SPAN CLOSURE PLACEMENT CONCRETE TYPE 3 FRICTION, ITEM 557.01030001.

LEGEND:

(G) INDICATES GALVANIZED BAR REINFORCEMENT



PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
ON: 03/29/10



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

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE _____ DATE _____
DOCUMENT NAME:

NYS ROUTE 185, S.H. 9527
VT ROUTE 17
LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN
COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

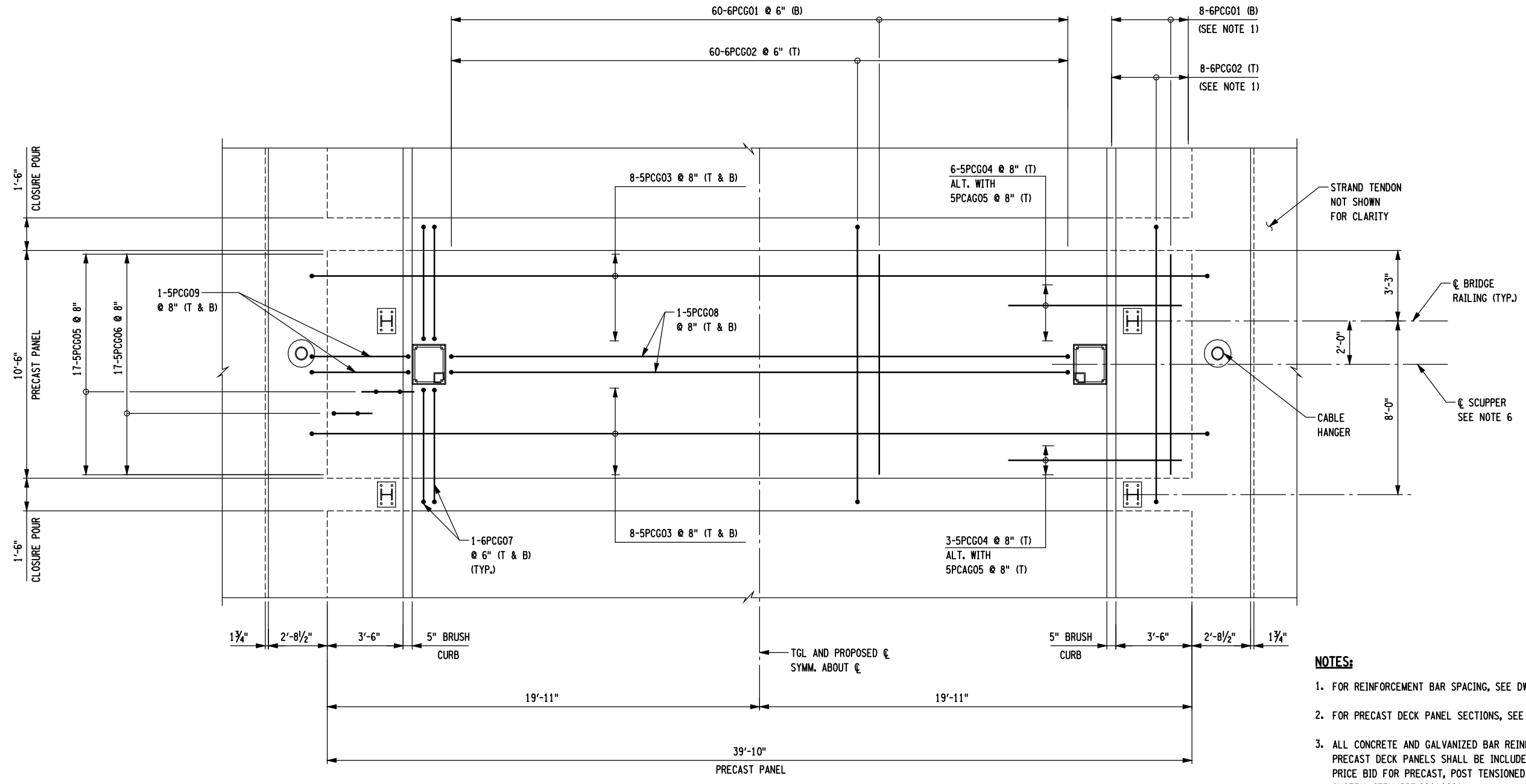
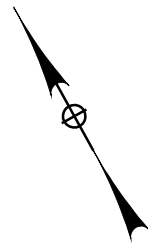
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NYS ROUTE 185
PS&E DATE MAR. 1, 2010
AMENDMENT NO. 1
DATE MAR 29, 2010

BRIDGES
BIN 5521180

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
CONTRACT NUMBER
D261458
DRAWING NO. ST-204
SHEET NO. 321A OF 432A

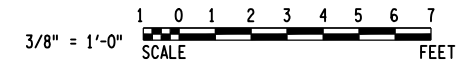
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 DATE/TIME = 29-MAR-2010 05:44
 USER = slam
 DESIGN SUPERVISOR I.P. ZOLI JOB MANAGER T.F. POTTS DESIGNED BY C. ENGEL ESTIMATED BY G. WOLLMANN DRAFTED BY D. SANTORO CHECKED BY G. TOW



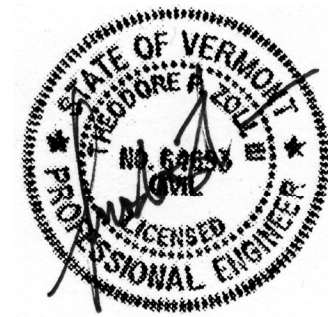
PRECAST PANEL TYPE B - PLAN
 3/8" = 1'-0"

- NOTES:**
- FOR REINFORCEMENT BAR SPACING, SEE DWG. NO. ST-203.
 - FOR PRECAST DECK PANEL SECTIONS, SEE DWG. NO. ST-203.
 - ALL CONCRETE AND GALVANIZED BAR REINFORCEMENT IN THE PRECAST DECK PANELS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST TENSIONED CONCRETE DECK SYSTEM, ITEM 557.00010001.
 - ALL GALVANIZED BAR REINFORCEMENT IN THE CLOSURE POUR SHALL BE INCLUDED IN THE UNIT PRICE BID FOR GALVANIZED BAR REINFORCEMENT FOR STRUCTURES, ITEM 556.0203.
 - ALL CLOSURE POUR CONCRETE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ARCH SPAN CLOSURE PLACEMENT CONCRETE TYPE 3 FRICTION, ITEM 557.01030001.
 - FOR REINFORCEMENT PLAN AT SCUPPER, SEE DWG. NO. ST-229.

LEGEND:
 (G) INDICATES GALVANIZED BAR REINFORCEMENT



PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
 ON: 03/29/10
 PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
 ON: 03/29/10

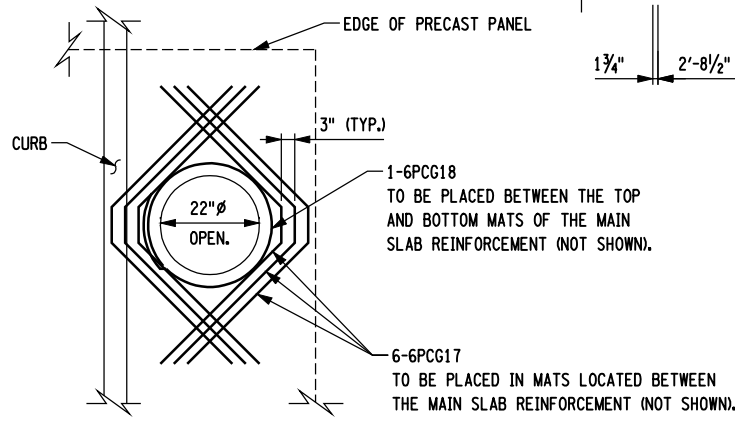
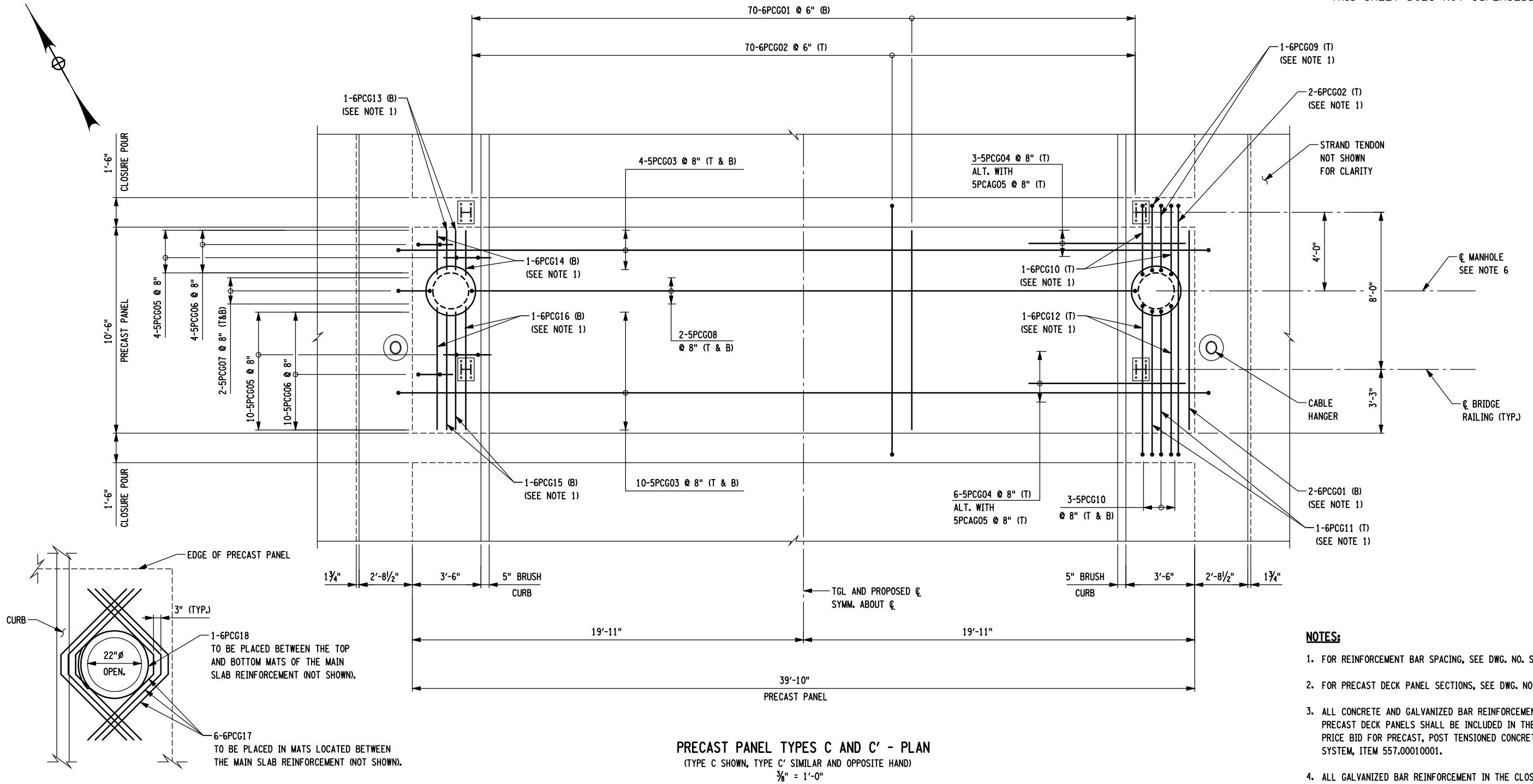


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AS BUILT REVISIONS
 DESCRIPTION OF WORK:
 SIGNATURE _____ DATE _____
 DOCUMENT NAME:

NYS ROUTE 185, S.H. 9527	PIN 1805.81	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
VT ROUTE 17	NYS ROUTE 185	BIN 5521180		PRECAST DECK PANEL TYPE B	D261458
LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN	PS&E DATE MAR. 1, 2010 AMENDMENT NO. 1				DRAWING NO. ST-205 SHEET NO. 322A OF 432A
COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT	DATE MAR 29, 2010				
552/638					NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 1

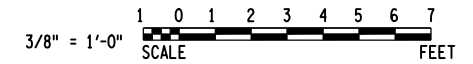
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 DATE/TIME = 29-MAR-2010 05:44
 USER = slm
 DESIGN SUPERVISOR I.P. ZOLI
 JOB MANAGER I.F. POTTS
 DESIGNED BY C. ENGEL
 CHECKED BY G. WOLLMANN
 ESTIMATED BY C. BROSDO
 DRAFTED BY D. SANTORO
 CHECKED BY G. TOW



PRECAST PANEL TYPES C AND C' - PLAN
 (TYPE C SHOWN, TYPE C' SIMILAR AND OPPOSITE HAND)
 3/8" = 1'-0"

- NOTES:**
- FOR REINFORCEMENT BAR SPACING, SEE DWG. NO. ST-203.
 - FOR PRECAST DECK PANEL SECTIONS, SEE DWG. NO. ST-203.
 - ALL CONCRETE AND GALVANIZED BAR REINFORCEMENT IN THE PRECAST DECK PANELS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST TENSIONED CONCRETE DECK SYSTEM, ITEM 557.00010001.
 - ALL GALVANIZED BAR REINFORCEMENT IN THE CLOSURE POUR SHALL BE INCLUDED IN THE UNIT PRICE BID FOR GALVANIZED BAR REINFORCEMENT FOR STRUCTURES, ITEM 556.0203.
 - ALL CLOSURE POUR CONCRETE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ARCH SPAN CLOSURE PLACEMENT CONCRETE TYPE 3 FRICTION, ITEM 557.01030001.

LEGEND:
 (G) INDICATES GALVANIZED BAR REINFORCEMENT

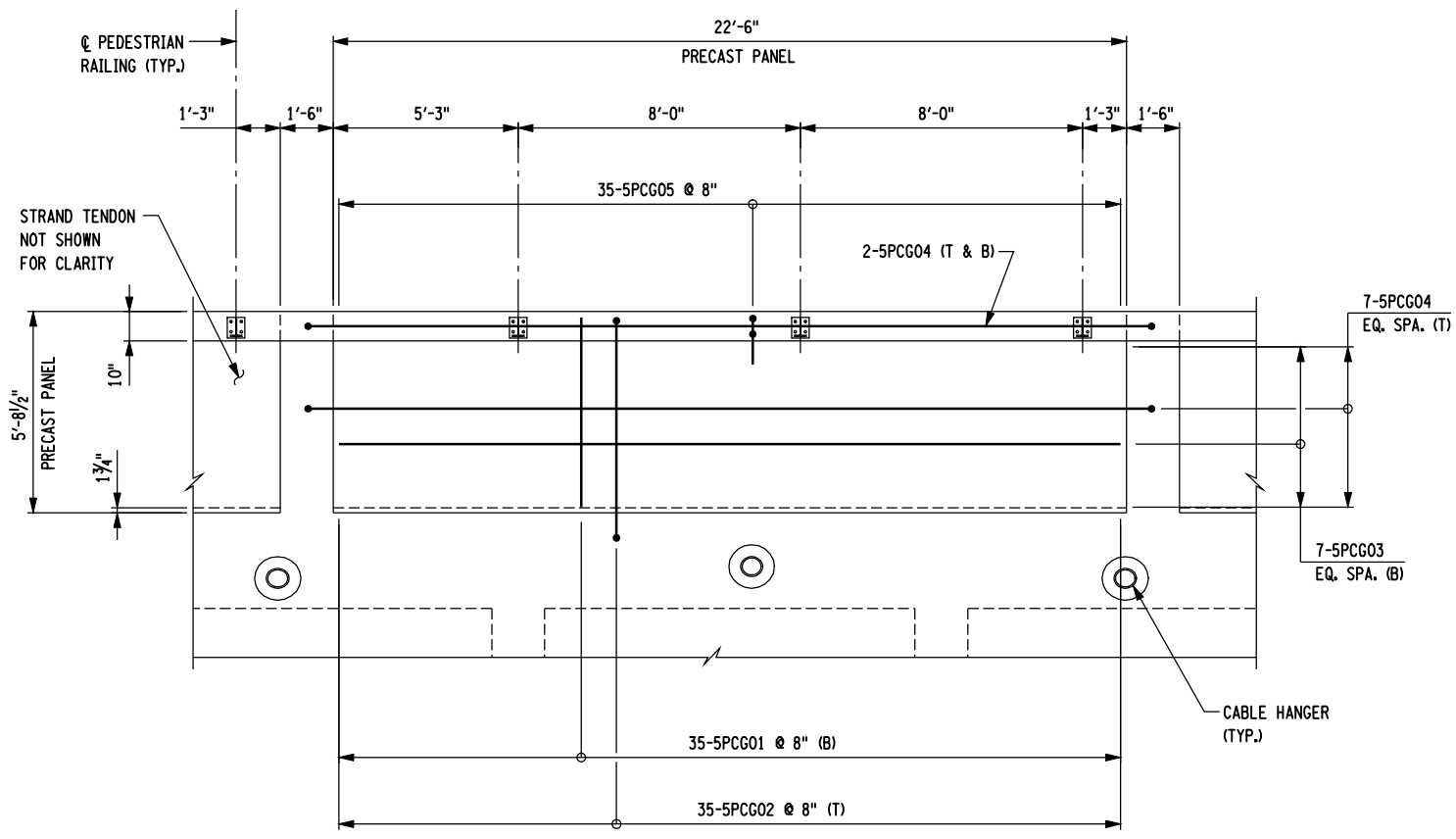
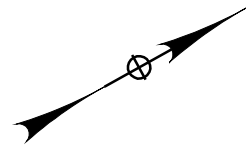


PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
 ON: 03/29/10
 PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
 ON: 03/29/10

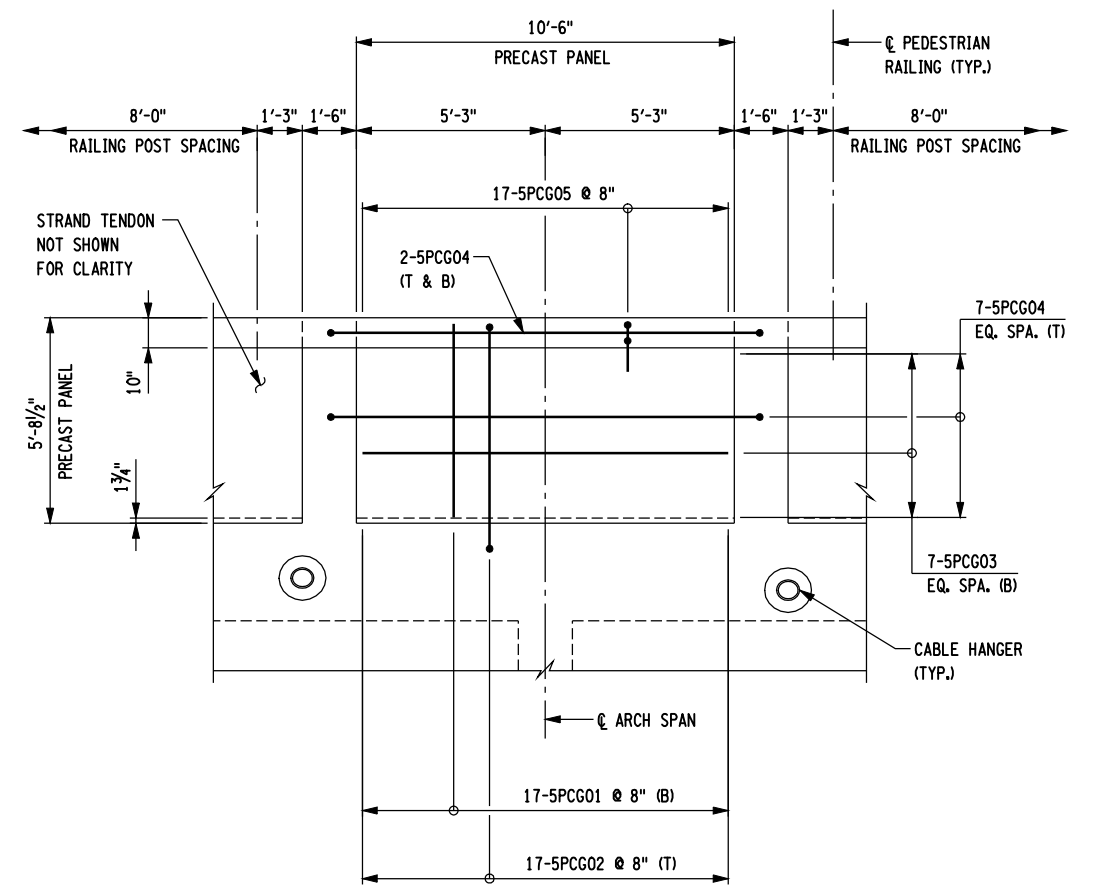
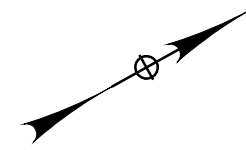


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AS BUILT REVISIONS DESCRIPTION OF WORK:	NYS ROUTE 185, S.H. 9527 VT ROUTE 17 LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN	PIN 1805.81 NYS ROUTE 185 PS&E DATE MAR. 1, 2010 AMENDMENT NO. 1 DATE MAR 29, 2010	BRIDGES BIN 5521180	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED PRECAST PANEL TYPES C AND C'	CONTRACT NUMBER D261458	DRAWING NO. ST-205A SHEET NO. 323A OF 432A
SIGNATURE	DATE	COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT	553/638 NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 1				
DOCUMENT NAME:							



PRECAST PANEL TYPE D - PLAN
3/8" = 1'-0"



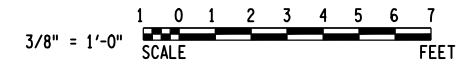
PRECAST PANEL TYPE E - PLAN
3/8" = 1'-0"

NOTES:

- FOR PRECAST DECK PANEL SECTIONS, SEE DWG. NO. ST-203.
- ALL CONCRETE AND GALVANIZED BAR REINFORCEMENT IN THE PRECAST SIDEWALK PANELS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST TENSIONED CONCRETE SIDEWALK, ITEM 557.00020001.
- ALL GALVANIZED BAR REINFORCEMENT IN THE CLOSURE POURS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR GALVANIZED BAR REINFORCEMENT FOR STRUCTURES, ITEM 556.0203.
- ALL CLOSURE POUR CONCRETE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ARCH SPAN CLOSURE PLACEMENT CONCRETE TYPE 3 FRICTION, ITEM 557.01030001.

LEGEND:

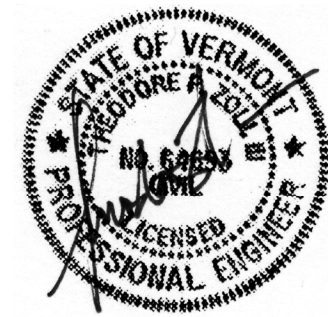
(G) INDICATES GALVANIZED BAR REINFORCEMENT



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 USER = slam

DESIGN SUPERVISOR: I.P. ZOLI
 JOB MANAGER: T.F. POTTS
 DESIGNED BY: C. ENGEL
 ESTIMATED BY: C. BROSDO
 DRAFTED BY: D. SANTORO
 CHECKED BY: G. TOW

PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
 ON: 03/29/10
 PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
 ON: 03/29/10



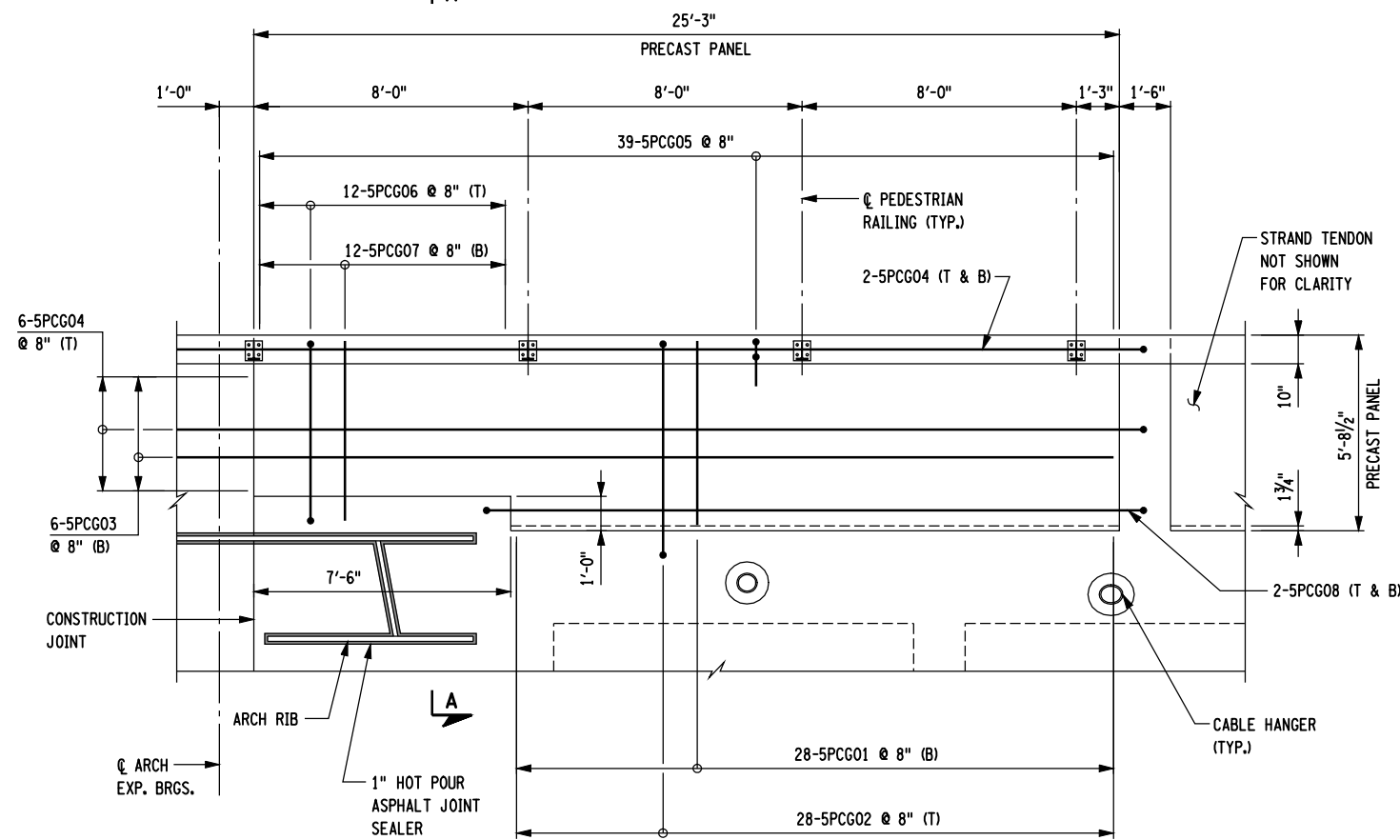
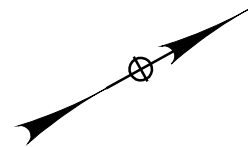
NOTE: IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT,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

AS BUILT REVISIONS
 DESCRIPTION OF WORK:
 SIGNATURE _____ DATE _____
 DOCUMENT NAME:

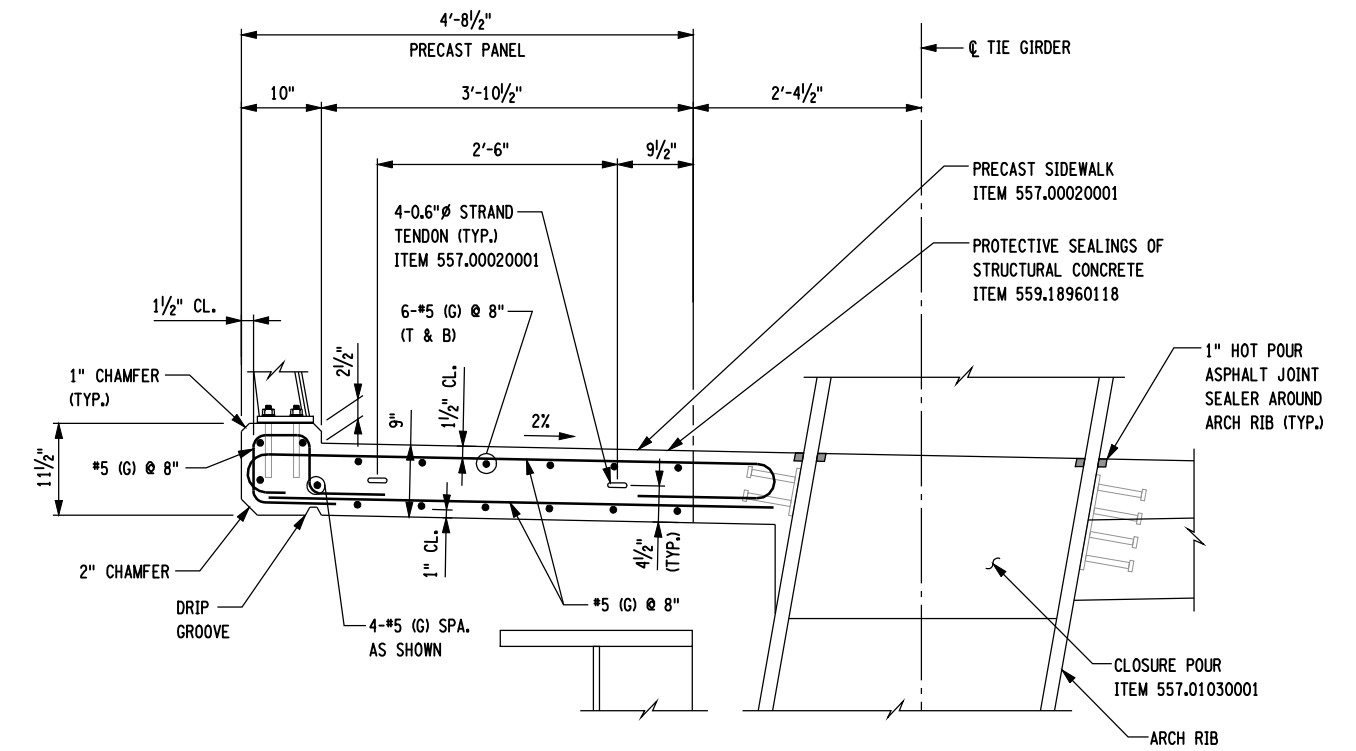
NYS ROUTE 185, S.H. 9527
 VT ROUTE 17
 LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN
 COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

PIN 1805.81
 NYS ROUTE 185
 PS&E DATE MAR. 1, 2010
 AMENDMENT NO. 1
 DATE MAR 29, 2010

BRIDGES BIN 5521180	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D261458
PRECAST SIDEWALK DECK PANEL TYPES D AND E		DRAWING NO. ST-206 SHEET NO. 324A OF 432A	



PRECAST PANEL TYPE F - PLAN
3/8" = 1'-0"



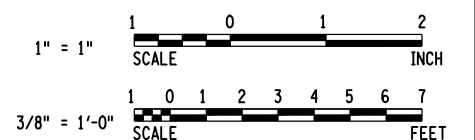
SECTION A-A
1" = 1'-0"

NOTES:

- FOR PRECAST DECK PANEL TYPICAL SECTION, SEE DWG. NO. ST-203.
- ALL CONCRETE AND GALVANIZED BAR REINFORCEMENT IN THE PRECAST SIDEWALK PANELS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST TENSIONED CONCRETE SIDEWALK, ITEM 557.00020001.
- ALL GALVANIZED BAR REINFORCEMENT IN THE CLOSURE POURS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR GALVANIZED BAR REINFORCEMENT FOR STRUCTURES, ITEM 556.0203.
- ALL CLOSURE POUR CONCRETE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ARCH SPAN CLOSURE PLACEMENT CONCRETE TYPE 3 FRICTION, ITEM 557.01030001.

LEGEND:

(G) INDICATES GALVANIZED BAR REINFORCEMENT



PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
ON: 03/29/10

PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
ON: 03/29/10



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

AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE _____ DATE _____
DOCUMENT NAME:

NYS ROUTE 185, S.H. 9527
VT ROUTE 17
LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN
COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

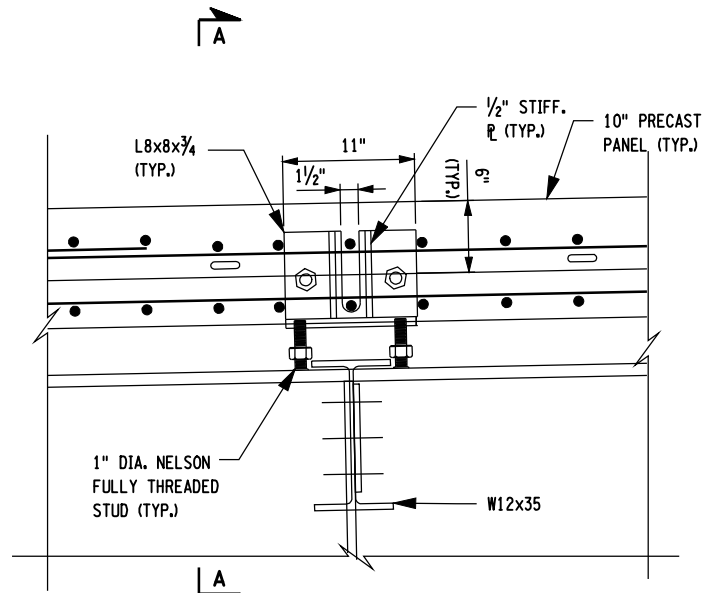
PIN 1805.81
NYS ROUTE 185
PS&E DATE MAR. 1, 2010
AMENDMENT NO. 1
DATE MAR 29, 2010

BRIDGES
BIN 5521180

CULVERTS

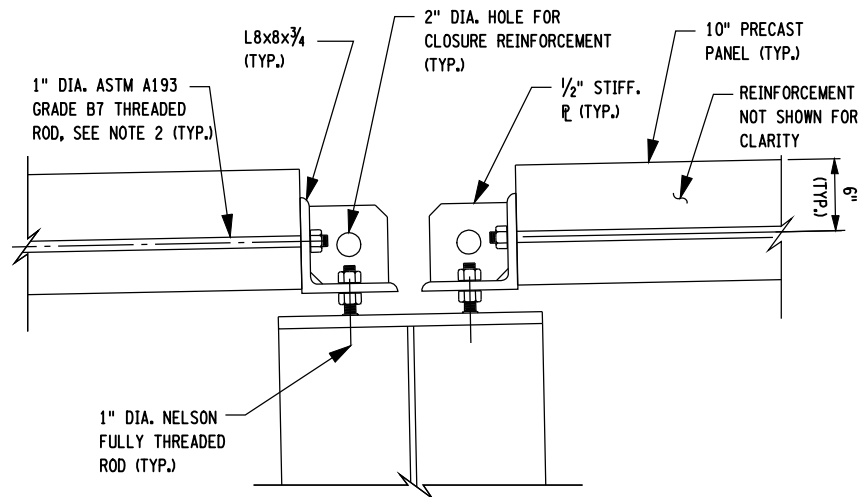
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
PRECAST SIDEWALK DECK PANEL TYPE F

CONTRACT NUMBER
D261458
DRAWING NO. ST-207
SHEET NO. 325A OF 432A



PRECAST DECK PANEL SUPPORT DETAILS

1/2" = 1'-0"



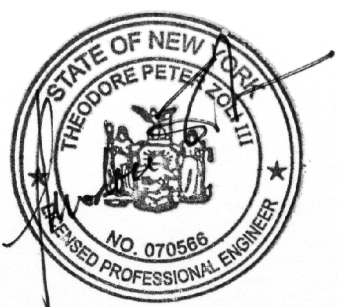
SECTION A-A

1/2" = 1'-0"

NOTES:

1. ASTM A193 GRADE B7 THREADED BAR OR APPROVED EQUAL WITH A YIELD STRENGTH OF 105 KSI AND AN ULTIMATE STRENGTH OF 120 KSI.
2. PRIOR TO LIFTING OR HANDLING FROM BRACKETS, THREADED BARS TO BE TENSIONED TO A MINIMUM OF 25 KIPS USING A CALIBRATED TORQUE WRENCH.
3. TORQUE TO ACHIEVE THIS LEVEL OF PRETENSIONING SHALL BE BASED UPON THE MANUFACTURER'S RECOMMENDATIONS.
4. SUPPORT BRACKETS MAY BE USED FOR LIFTING AND HANDLING OF PRECAST PANELS. HOWEVER SPREADER BEAMS ARE REQUIRED TO ENSURE LOADS ARE VERTICAL AND EQUALIZED TO ALL FOUR SUPPORTS.
5. IN ORDER TO REMOVE HILMAN ROLLERS, PANELS ARE TO BE JACKED AT THE SUPPORT BRACKETS. TO ACHIEVE PROFILE GRADE, THE BRACKETS ARE TO BE SUPPORTED ON THE NELSON STUDS. GIVEN THE SMALL CLEARANCES BETWEEN BRACKET AND FLOORBEAM TOP FLANGE, TOE JACKS OR A SIMILAR LOW PROFILE ALTERNATIVE IS REQUIRED.

PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
 ON: 03/29/10



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AS BUILT REVISIONS
 DESCRIPTION OF WORK:

SIGNATURE _____ DATE _____

DOCUMENT NAME:

NYS ROUTE 185, S.H. 9527
 VT ROUTE 17
 LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN
 COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

PIN 1805.81
 NYS ROUTE 185
 PS&E DATE MAR. 1, 2010
 AMENDMENT NO. 1
 DATE MAR 29, 2010

BRIDGES
 BIN 5521180

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

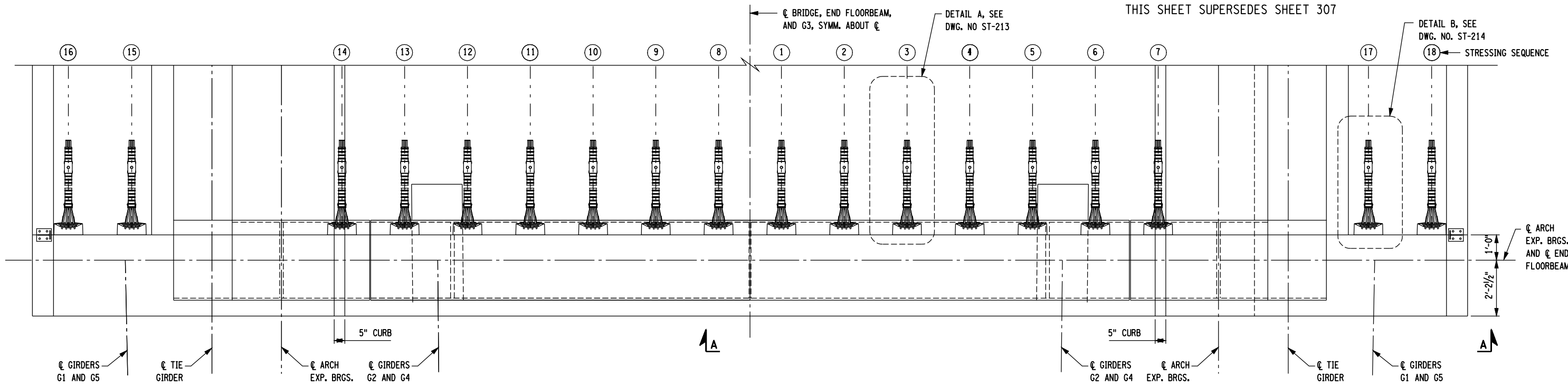
PRECAST DECK
 SUPPORT DETAILS

CONTRACT NUMBER
 D261458
 DRAWING NO. ST-207A
 SHEET NO. 326A OF 432A

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 USER = slm

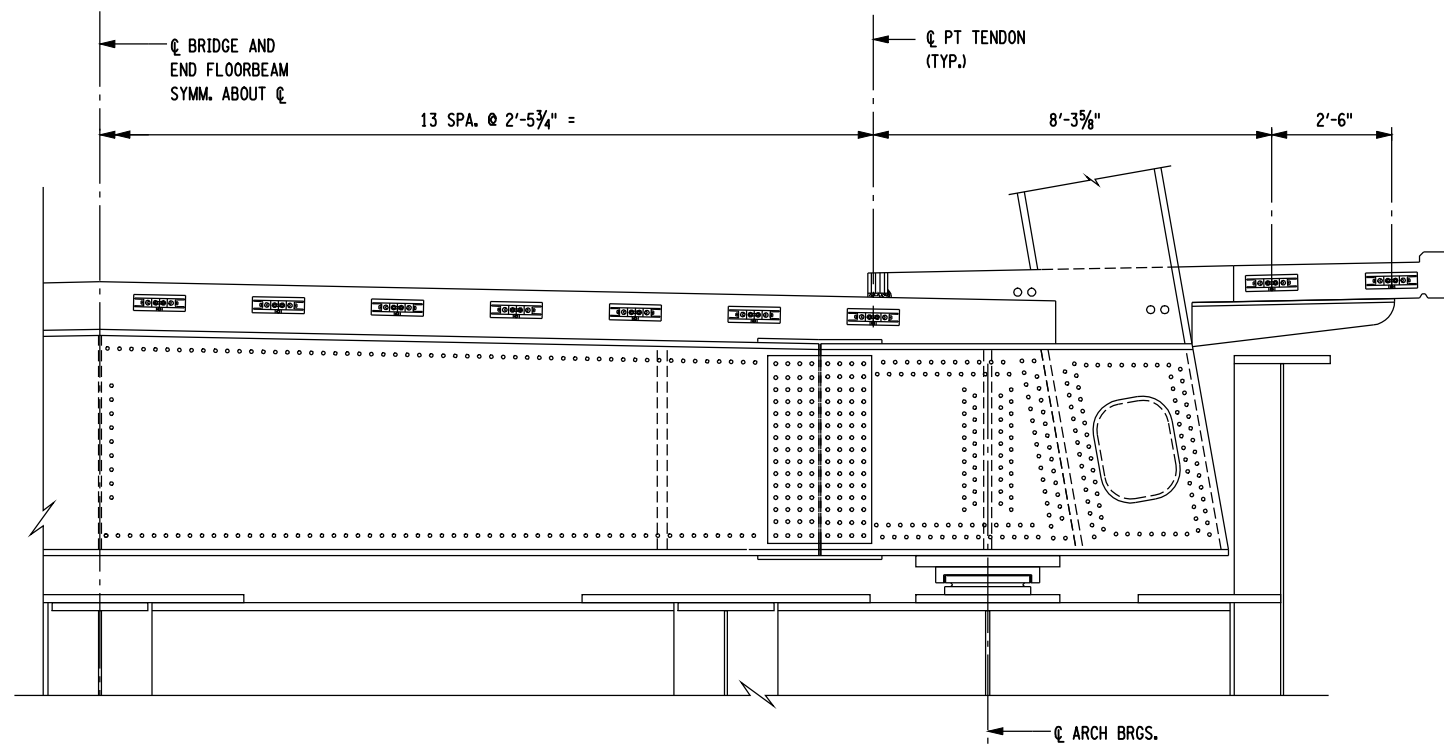
DESIGN SUPERVISOR: I.P. ZOLI
 JOB MANAGER: T.F. POTTS
 DESIGNED BY: C. ENGEL
 CHECKED BY: R. J. LEE
 ESTIMATED BY: C. BROSDO
 DRAFTED BY: R. J. LEE
 CHECKED BY: G. TOW

THIS SHEET SUPERSEDES SHEET 307



DECK POST-TENSIONING PLAN

1/2" = 1'-0"

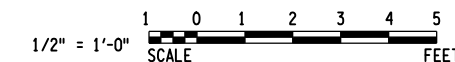


SECTION A-A

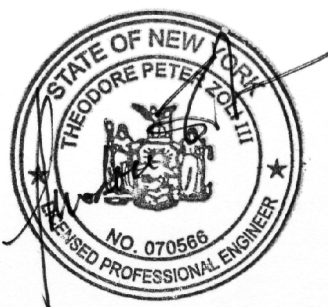
1/2" = 1'-0"

NOTES:

- FOR POST-TENSIONING DETAILS, SEE DWG. NOS. ST-213 AND ST-214.
- FOR CONCRETE DECK PLACEMENT SEQUENCE, SEE DWG. NO. ST-216.
- POST TENSIONING STRANDS IN THE DECK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST TENSIONED CONCRETE DECK SYSTEM, ITEM 557.00010001.
- POST TENSIONING STRANDS IN THE SIDEWALK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST TENSIONED CONCRETE SIDEWALK, ITEM 557.00020001.



PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
 ON: 03/29/10
 PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
 ON: 03/29/10



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AS BUILT REVISIONS
 DESCRIPTION OF WORK:

SIGNATURE
 DOCUMENT NAME:

DATE

NYS ROUTE 185, S.H. 9527

VT ROUTE 17

LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN

COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

PIN 1805.81

NYS ROUTE 185

PS&E DATE MAR. 1, 2010
 AMENDMENT NO. 1

DATE MAR 29, 2010

BRIDGES
 BIN 5521180

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

ARCH SPAN
 DECK POST-TENSIONING LAYOUT

CONTRACT NUMBER

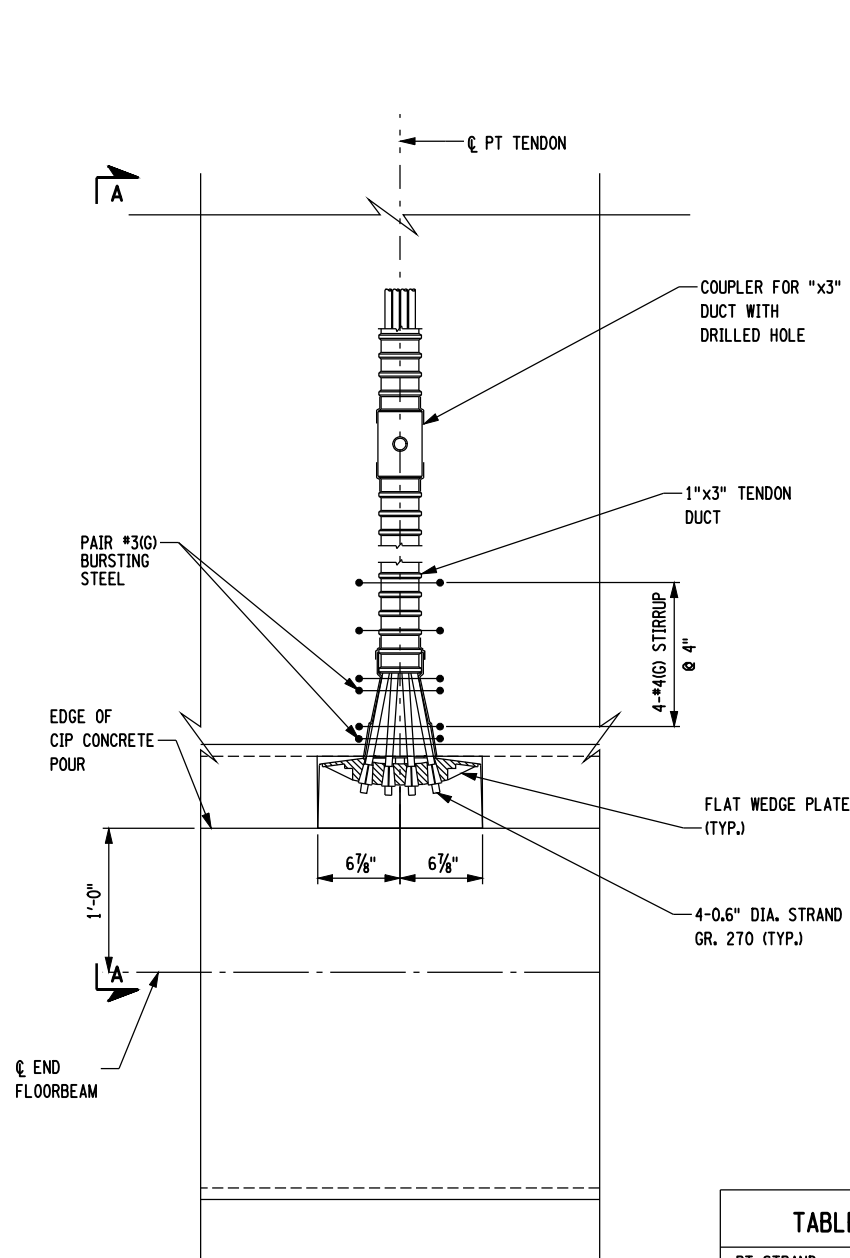
D261458

DRAWING NO. ST-212
 SHEET NO. 337A OF 432A

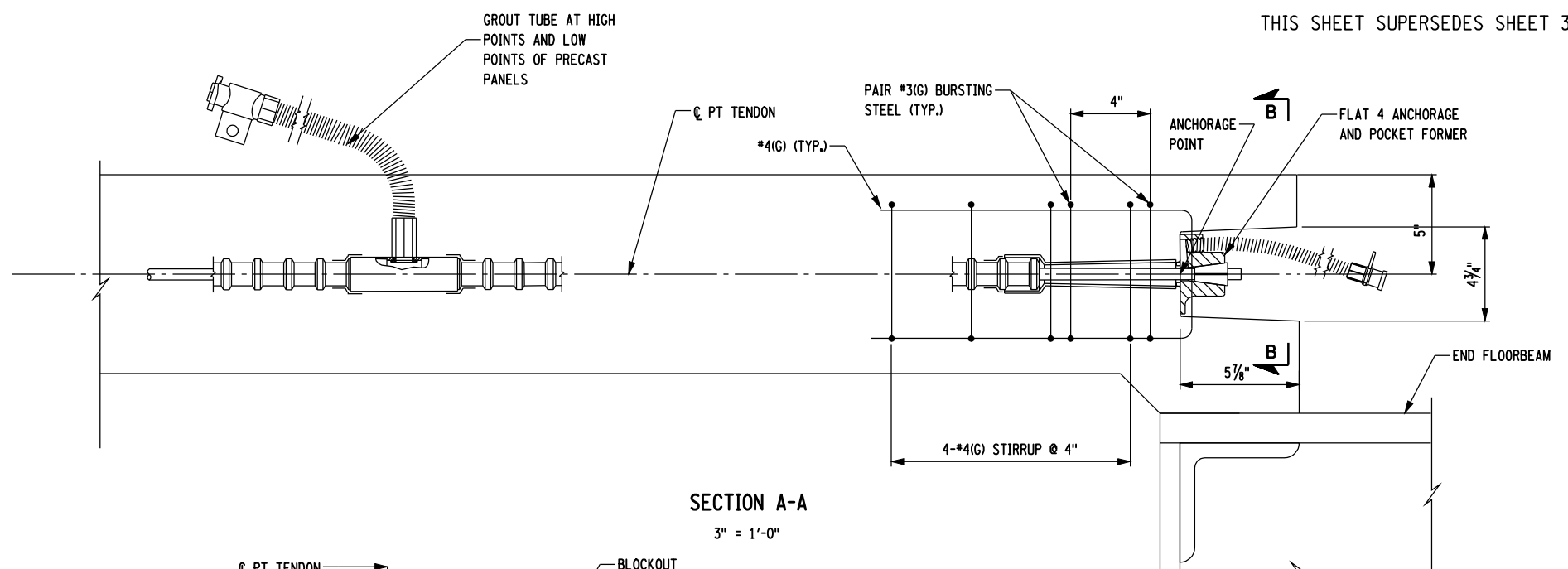
567/638

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 1

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 USER = slam
 DESIGN SUPERVISOR I.P. ZOLI
 JOB MANAGER T.F. POTTS
 DESIGNED BY C. ENGEL
 CHECKED BY R. J. LEE
 ESTIMATED BY C. BROSDO
 DRAFTED BY R. J. LEE
 CHECKED BY G. TOW



DETAIL A - PT STRAND ANCHORAGE PLAN
1" = 1'-0"



SECTION A-A
3" = 1'-0"

SECTION B-B
3" = 1'-0"

POST-TENSIONING NOTES:

- IF THE CONSTRUCTION SEQUENCE OR CONDITIONS DIFFER FROM THE ASSUMPTIONS SHOWN HERE, THE CONTRACTOR SHALL SUBMIT REVISED PRESTRESSING DETAILS AND CALCULATIONS FOR REVIEW AND APPROVAL BY THE DCES.
- THE POST-TENSIONING DETAILS AND QUANTITIES ARE PROVIDED FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL SUBMIT DETAILS OF THE PROPOSED POST-TENSIONING SYSTEM FOR APPROVAL BY THE DCES.
- POST-TENSIONING BEARING PLATE AND CONFINEMENT REINFORCEMENT ARE SUBJECT TO THE REQUIREMENTS FOR SPECIAL ANCHORAGES IN ACCORDANCE WITH AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, ARTICLE 10.3.2. AND 10.3.2.3.
- POST-TENSIONING DUCTS SHALL BE POLYETHYLENE OR GALVANIZED METAL CORRUGATED AND SUPPORTED AT A MAXIMUM SPACING OF 24 INCHES (2 FEET).
- LOCATE PT GROUT VENT AND DRAIN TUBES AT DUCT HIGH POINTS AND LOW POINTS OF PRECAST PANELS. VENT AND DRAIN TUBE LOCATIONS SHALL BE SUBMITTED TO THE DCES FOR APPROVAL.

POST-TENSIONING SEQUENCE:

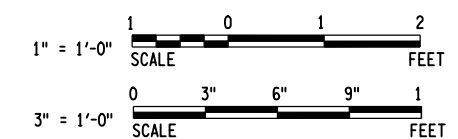
- AFTER PLACEMENT OF PRECAST PANELS, CONNECT PT DUCTS WITH DUCT COUPLERS AT EACH TRANSVERSE CLOSURE JOINT. SEAL ALL DUCT JOINTS, CONNECTIONS, ETC. WITH HEAT SHRINK TUBING OR OTHER METHODS APPROVED BY THE DCES.
- PLACE ALL PT STRANDS WITHIN DUCTS PRIOR TO PLACEMENT OF TRANSVERSE CAST-IN-PLACE (CIP) CONCRETE CLOSURE POURS.
- INSTALL TRANSVERSE CIP CONCRETE CLOSURE POURS AND TRANSVERSE END JOINT POUR. AFTER THE CIP CONCRETE HAS REACHED THE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, ALL POST-TENSIONING STRANDS SHALL BE DOUBLE-END STRESSED TO 47 KIPS/STRAND IN THE ORDER INDICATED IN THE "STRESSING SEQUENCE" IN DECK POST-TENSIONING PLAN ON DWG. NO. ST-212.
- UPON APPROVAL OF THE STRESSING RECORDS BY THE DCES, THE STRESSED STRANDS SHALL BE GROUTED IMMEDIATELY IN ACCORDANCE WITH THE SPECIFICATIONS.
- GROUT ANCHORAGE BLOCKOUTS WITH NON-METALLIC AND NON-SHRINK GROUT.
- CUT GROUT TUBES FLUSH TO DECK.

LEGEND:

(G) INDICATES GALVANIZED BAR REINFORCEMENT

NOTES:

- FOR END FLOORBEAM DETAILS, SEE DWG. NOS. ST-179 AND ST-180.
- FOR LOCATION OF DETAIL A, SEE DWG. NO. ST-212.
- POST TENSIONING STRAND, POLYETHYLENE DUCT, COUPLER, ANCHORAGE, GROUT, AND GALVANIZED REINFORCEMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST-TENSIONED CONCRETE DECK SYSTEM, ITEM 557.0001001.
- FOR DECK PLACEMENT SEQUENCE SEE DWG. NO ST-216



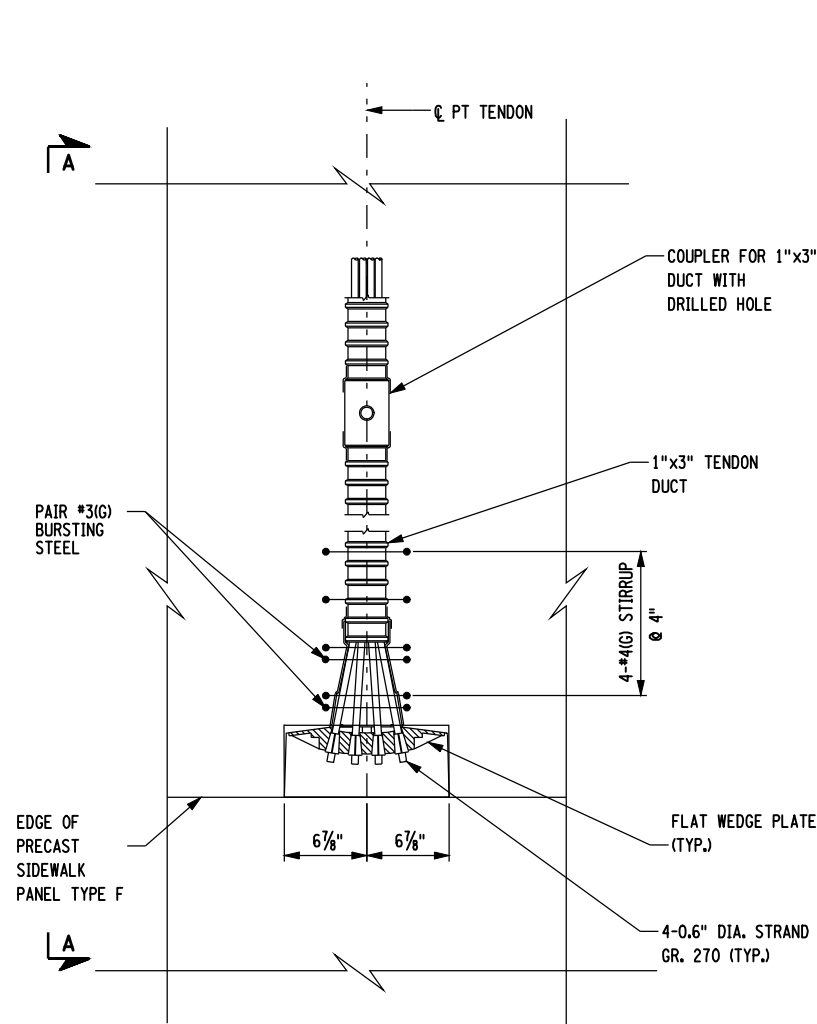
PT STRAND	7-WIRE LOW-RELAXATION WELDLESS STRANDS CONFORMING TO AASHTO M203, SUPPLEMENT S1, GRADE 270 (ASTM A416)
GUARANTEED ULTIMATE TENSILE STRENGTH (GUTS)	270 KSI
PT STRAND DIAMETER/AREA	0.6" DIA. / 0.217 SQ. IN.
MODULUS OF ELASTICITY (E)	28,500 KSI
COEFFICIENT OF FRICTION	POLYETHYLENE 0.23 GALVANIZED DUCT 0.25
WOBBLE FRICTION COEFFICIENT	0.001/FT
PT STRAND ANCHOR SET	0.375 IN
PT STRAND STRESSING	DOUBLE END
MIN. CONCRETE STRENGTH AT STRESSING (F'CD)	3,000 PSI

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

PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
ON: 03/29/10
PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
ON: 03/29/10

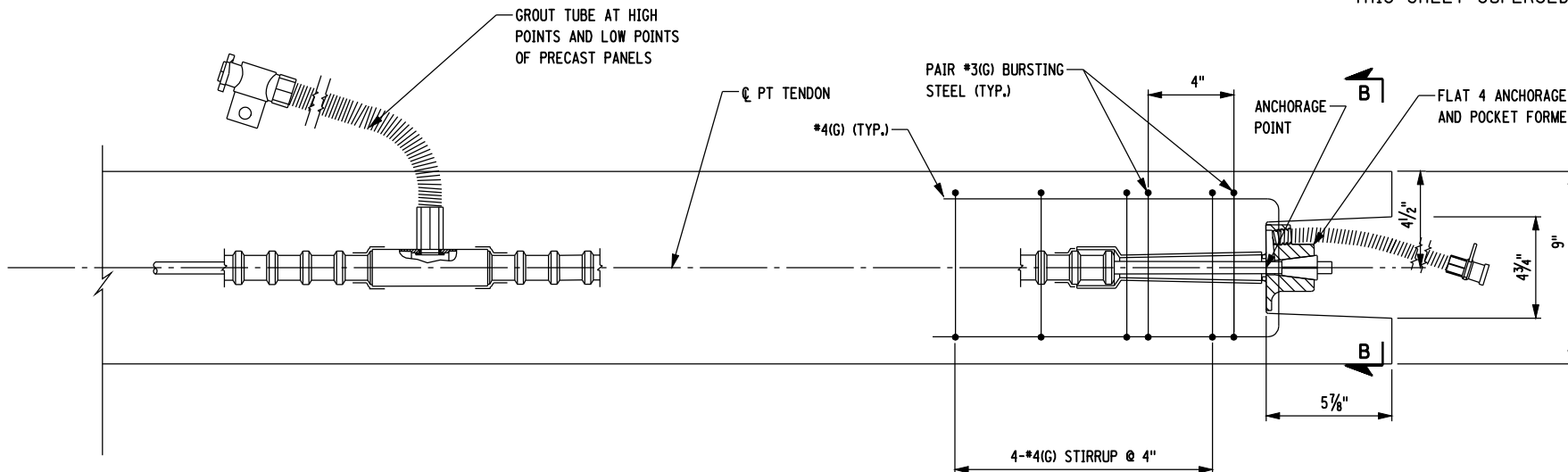


AS BUILT REVISIONS DESCRIPTION OF WORK:	NYS ROUTE 185, S.H. 9527 VT ROUTE 17 LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN	PIN 1805.81 NYS ROUTE 185 PS&E DATE MAR. 1, 2010 AMENDMENT NO. 1 DATE MAR 29, 2010	BRIDGES BIN 5521180	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D261458	DRAWING NO. ST-213 SHEET NO. 338A OF 432A
SIGNATURE	DATE	COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT	<p style="text-align: center;">568/638 NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION 1</p>				



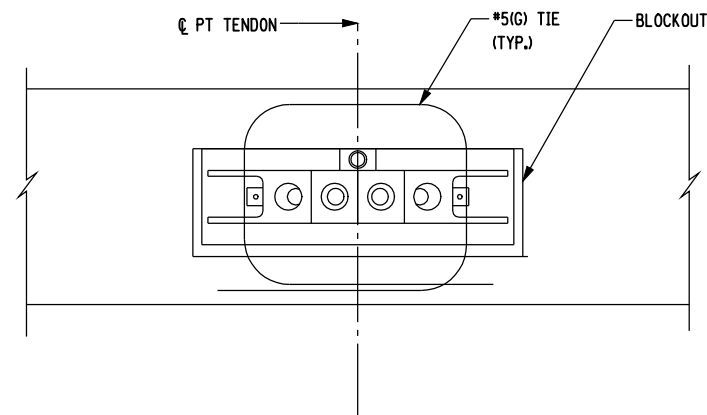
DETAIL B - PT STRAND ANCHORAGE PLAN AT SIDEWALK

1" = 1'-0"



SECTION A-A

3" = 1'-0"



SECTION B-B

3" = 1'-0"

POST-TENSIONING NOTES:

- IF THE CONSTRUCTION SEQUENCE OR CONDITIONS DIFFER FROM THE ASSUMPTIONS SHOWN HERE, THE CONTRACTOR SHALL SUBMIT REVISED PRESTRESSING DETAILS AND CALCULATIONS FOR REVIEW AND APPROVAL BY THE DCES.
- THE POST-TENSIONING DETAILS AND QUANTITIES ARE PROVIDED FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL SUBMIT DETAILS OF THE PROPOSED POST-TENSIONING SYSTEM FOR APPROVAL BY THE DCES.
- POST-TENSIONING BEARING PLATE AND CONFINEMENT REINFORCEMENT ARE SUBJECT TO THE REQUIREMENTS FOR SPECIAL ANCHORAGES IN ACCORDANCE WITH AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, ARTICLE 10.3.2. AND 10.3.2.3.
- POST-TENSIONING DUCTS SHALL BE POLYETHYLENE OR GALVANIZED METAL CORRUGATED AND SUPPORTED AT A MAXIMUM SPACING OF 24 INCHES (2 FEET).
- LOCATE PT GROUT VENT AND DRAIN TUBES AT DUCT HIGH POINTS AND LOW POINTS OF PRECAST PANELS. VENT AND DRAIN TUBE LOCATIONS SHALL BE SUBMITTED TO THE DCES FOR APPROVAL.

POST-TENSIONING SEQUENCE:

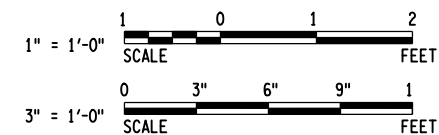
- AFTER PLACEMENT OF PRECAST PANELS, CONNECT PT DUCTS WITH DUCT COUPLERS AT EACH TRANSVERSE CLOSURE JOINT. SEAL ALL DUCT JOINTS, CONNECTIONS, ETC. WITH HEAT SHRINK TUBING OR OTHER METHODS APPROVED BY THE DCES.
- PLACE ALL PT STRANDS WITHIN DUCTS PRIOR TO PLACEMENT OF TRANSVERSE CAST-IN-PLACE (CIP) CONCRETE CLOSURE POURS.
- INSTALL TRANSVERSE CIP CONCRETE CLOSURE POURS AND TRANSVERSE END JOINT POUR. AFTER THE CIP CONCRETE HAS REACHED THE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, ALL POST-TENSIONING STRANDS SHALL BE DOUBLE-END STRESSED TO 47 KIPS/STRAND IN THE ORDER INDICATED IN THE "STRESSING SEQUENCE" IN DECK POST-TENSIONING PLAN ON DWG. NO. ST-212.
- UPON APPROVAL OF THE STRESSING RECORDS BY THE DCES, THE STRESSED STRANDS SHALL BE GROUTED IMMEDIATELY IN ACCORDANCE WITH THE SPECIFICATIONS.
- GROUT ANCHORAGE BLOCKOUTS WITH NON-METALLIC AND NON-SHRINK GROUT.
- CUT GROUT TUBES FLUSH TO DECK.

LEGEND:

(G) INDICATES GALVANIZED BAR REINFORCEMENT

NOTES:

- FOR END FLOORBEAM DETAILS, SEE DWG. NOS. ST-179 AND ST-180.
- FOR LOCATION OF DETAIL B, SEE DWG. NO. ST-212.
- POST TENSIONING STRAND, POLYETHYLENE DUCT, COUPLER, ANCHORAGE, GROUT, AND GALVANIZED REINFORCEMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRECAST, POST-TENSIONED CONCRETE SIDEWALK, ITEM 557.0002001.
- FOR DECK PLACEMENT SEQUENCE SEE DWG. NO ST-216



PT STRAND	7-WIRE LOW-RELAXATION WELDLESS STRANDS CONFORMING TO AASHTO M203, SUPPLEMENT S1, GRADE 270 (ASTM A416)
GUARANTEED ULTIMATE TENSILE STRENGTH (GUTS)	270 KSI
PT STRAND DIAMETER/AREA	0.6" DIA. / 0.217 SQ. IN.
MODULUS OF ELASTICITY (E)	28,500 KSI
COEFFICIENT OF FRICTION	POLYETHYLENE 0.23 GALVANIZED DUCT 0.25
WOBBLE FRICTION COEFFICIENT	0.001/FT
PT STRAND ANCHOR SET	0.375 IN
PT STRAND STRESSING	DOUBLE END
MIN. CONCRETE STRENGTH AT STRESSING (F'CD)	3,000 PSI

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

AS BUILT REVISIONS
DESCRIPTION OF WORK:

NYS ROUTE 185, S.H. 9527
VT ROUTE 17

LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN

COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

PIN 1805.81
NYS ROUTE 185
PS&E DATE MAR. 1, 2010
AMENDMENT NO. 1
DATE MAR 29, 2010

BRIDGES
BIN 5521180

CULVERTS

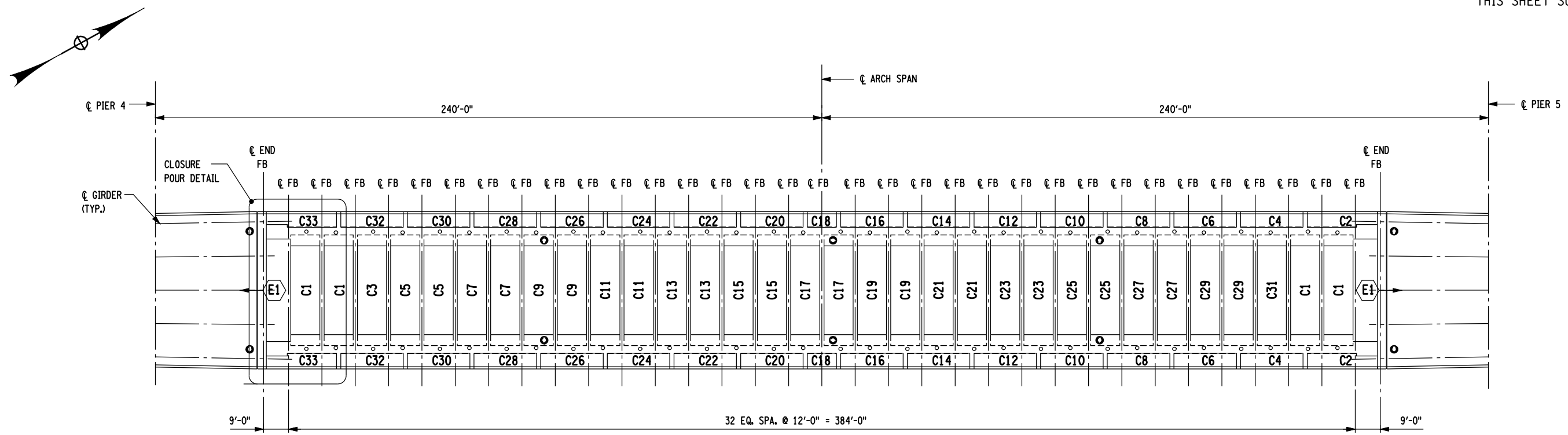
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
ARCH SPAN
DECK POST-TENSIONING DETAILS 2

CONTRACT NUMBER
D261458
DRAWING NO. ST-214
SHEET NO. 339A OF 432A

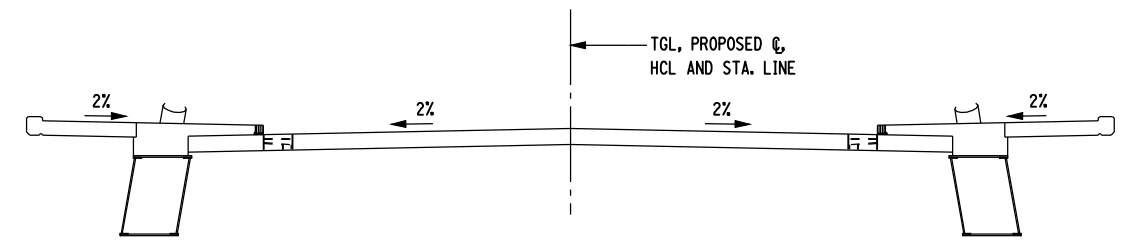
PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
ON: 03/29/10
PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
ON: 03/29/10



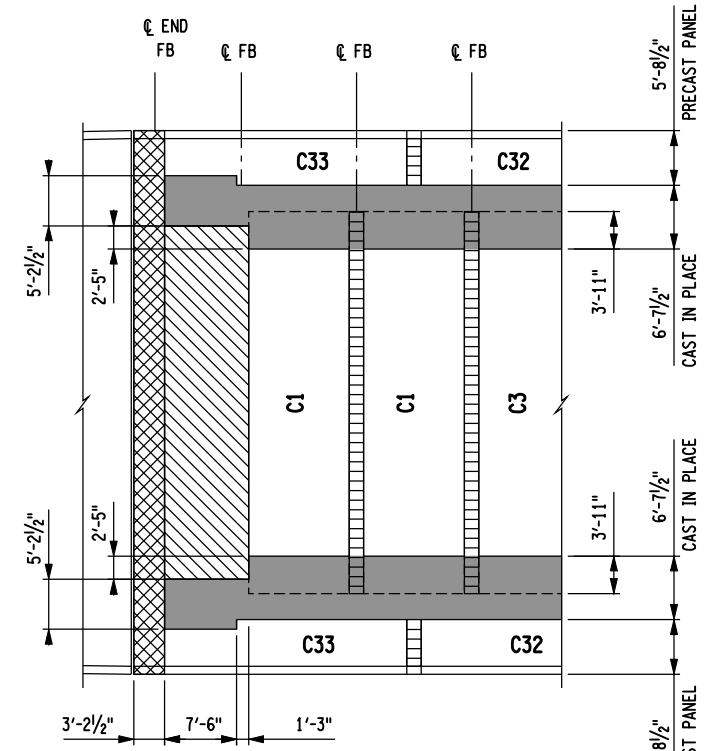
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 USER = slam
 DESIGN SUPERVISOR I.P. ZOLI
 JOB MANAGER T.F. POTTS
 DESIGNED BY G. DECORGES
 CHECKED BY R. J. LEE
 ESTIMATED BY C. BROSDO
 DRAFTED BY R. J. LEE
 CHECKED BY G. TOW



DECK CONCRETE PLACEMENT PLAN - ARCH SPAN



CONCRETE PLACEMENT SECTION



CLOSURE POUR DETAIL
(NY APPROACH SIDE, VT APPROACH SIDE OPPOSITE HAND)

- TYPICAL TRANSVERSE CLOSURE JOINTS
- TRANSVERSE END JOINT
- LONGITUDINAL CLOSURE JOINT
- END FLOORBEAM JOINT

CLOSURE POUR SEQUENCE:

1. POUR TRANSVERSE JOINTS BETWEEN DECK PRECAST PANELS, NOT INCLUDING END POURS. POUR TRANSVERSE CLOSURES BETWEEN SIDEWALK PRECAST PANELS, NOT INCLUDING END POURS.
2. POUR TRANSVERSE END JOINT. (MAY BE Poured SIMULTANEOUSLY WITH TYPICAL TRANSVERSE JOINTS.)
3. STRESS POST-TENSIONING TENDONS.
4. POUR LONGITUDINAL CLOSURE JOINT BETWEEN DECK AND SIDEWALK PRECAST PANELS INCLUDING CAST IN PLACE SIDEWALK POUR.
5. POUR TRANSVERSE JOINT OVER END FLOORBEAM.

NOTES:

1. FOR CONCRETE DECK PLACEMENT NOTES, SEE DWG. NO. ST-217.
2. WORK THIS DRAWING WITH NY APPROACH DECK PLACEMENT SEQUENCE, DWG. NO. ST-215, AND VT APPROACH DECK PLACEMENT SEQUENCE, DWG. NO. ST-217.
3. FOR POST-TENSIONING LAYOUT AND DETAILS SEE ST-212 TO ST-214.

LEGEND:

- CX** DENOTES PRECAST CONCRETE PANEL PLACEMENT SEQUENCE NUMBER
- E1** DENOTES CONCRETE PLACEMENT SEQUENCE NUMBER AND DIRECTION OF POUR

PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C. ON: 03/29/10
 PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C. ON: 03/29/10

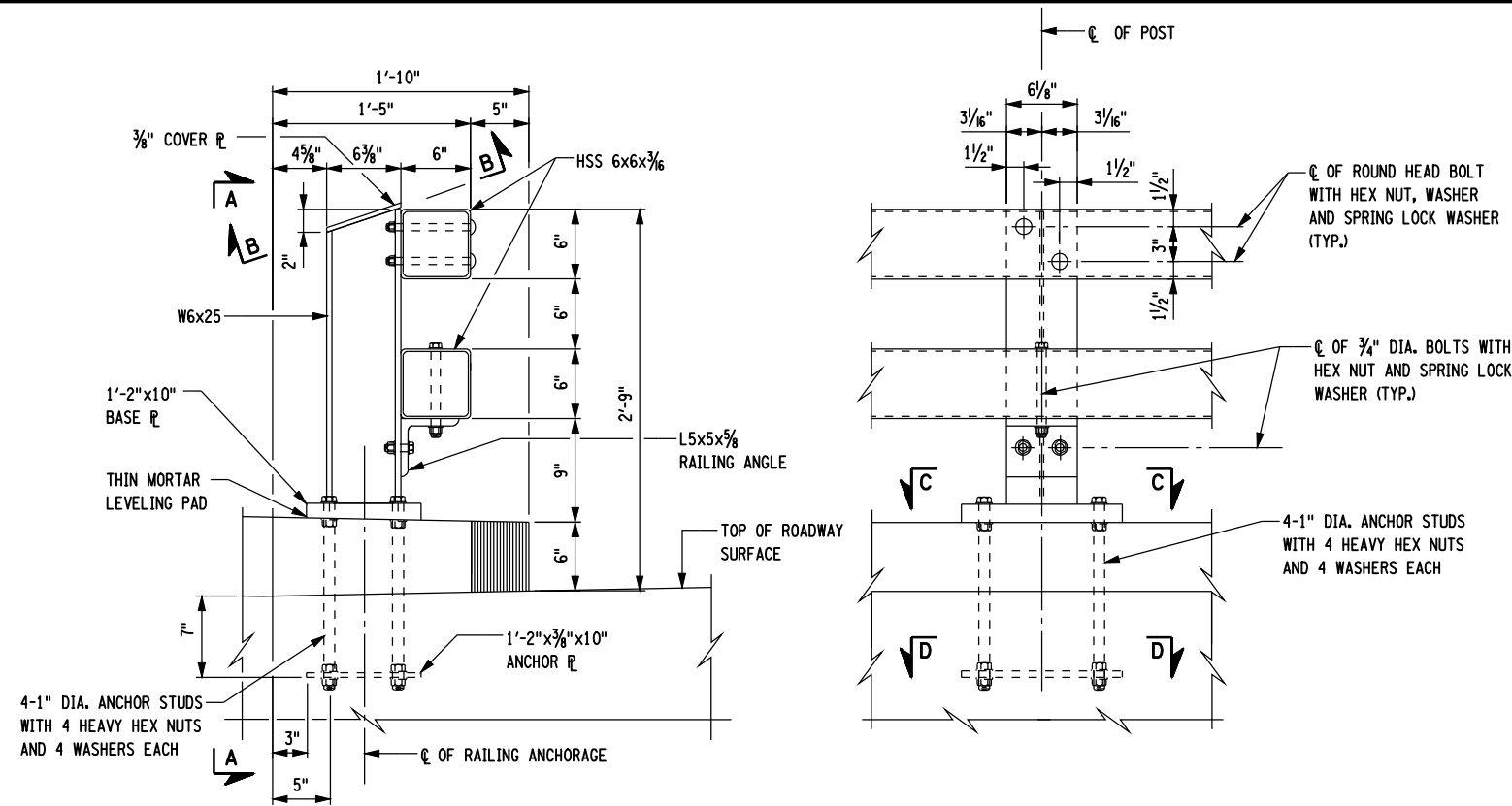


NOTE: IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT,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

AS BUILT REVISIONS DESCRIPTION OF WORK:
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 DOCUMENT NAME:

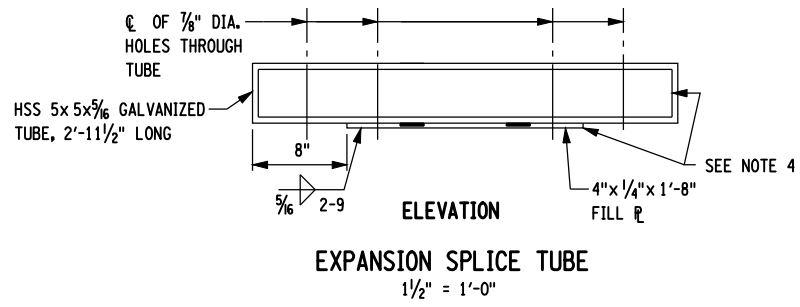
NYS ROUTE 185, S.H. 9527	PIN 1805.81	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
VT ROUTE 17	NYS ROUTE 185	BIN 5521180		DECK PLACEMENT SEQUENCE ARCH SPAN	D261458
LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN	PS&E DATE MAR. 1, 2010 AMENDMENT NO. 1				DRAWING NO. ST-216 SHEET NO. 341A OF 432A
COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT	DATE MAR 29, 2010				

FILE NAME = \\01nyw008dep1f0ccadd6652 Lake Champlain\FINAL DESIGN\180581_cpb_240_rig_BrGrRail1.dgn
DATE/TIME = 29-MAR-2010 06:21
USER = slam
DESIGN SUPERVISOR: I.P. ZOLI
JOB MANAGER: I.F. POTTS
DESIGNED BY: C. BROSDIO
CHECKED BY: G. TOW
ESTIMATED BY: C. BROSDIO
DRAFTED BY: S. LAM
CHECKED BY: G. TOW



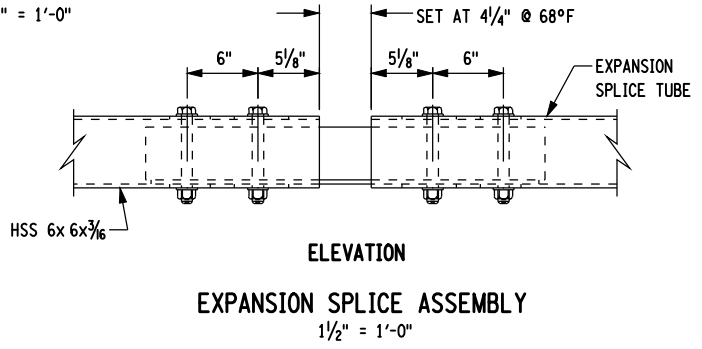
SECTION ELEVATION

STEEL BRIDGE RAILING
(TWO RAIL - BRUSH CURB)
1/2" = 1'-0"



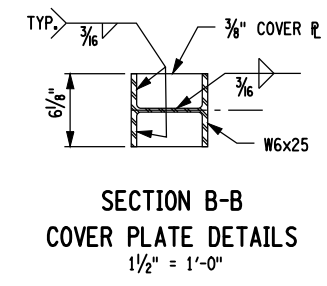
ELEVATION ELEVATION

EXPANSION SPLICE TUBE
1/2" = 1'-0"

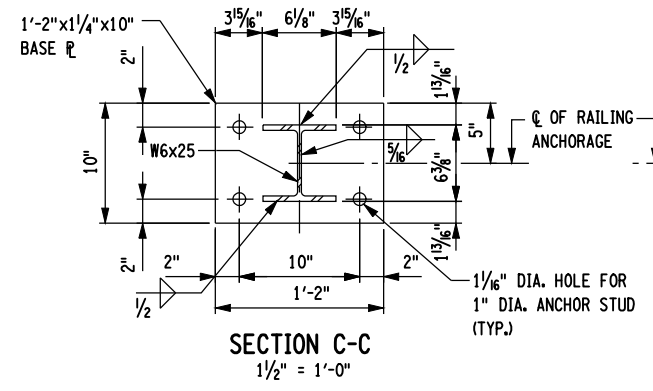


ELEVATION ELEVATION

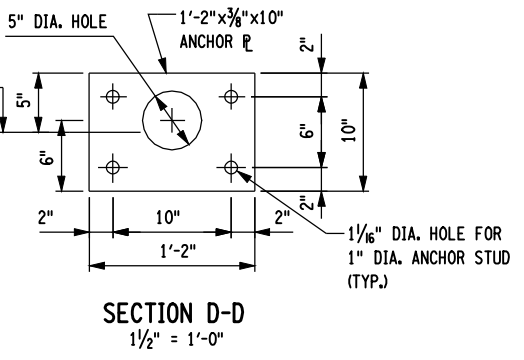
EXPANSION SPLICE ASSEMBLY
1/2" = 1'-0"



SECTION B-B
COVER PLATE DETAILS
1/2" = 1'-0"



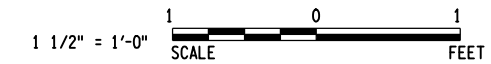
SECTION C-C
1/2" = 1'-0"



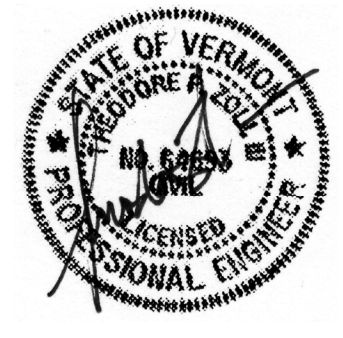
SECTION D-D
1/2" = 1'-0"

NOTES:

- ALL RAILING IS TO BE FABRICATED AND ERECTED ACCORDING TO SECTION 568 OF THE STANDARD SPECIFICATIONS.
- PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM RADIUS OF 1/16".
- BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 LB-FT).
- PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.
- BRIDGE RAILING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR STEEL BRIDGE RAILING (TWO RAIL), ITEM 568.50.
- ALL MORTAR SHALL CONFORM TO N.Y.S. STANDARD SPECIFICATION SUBSECTION 705-21 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR STEEL BRIDGE RAILING (TWO RAIL), ITEM 568.50.



PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
ON: 03/29/10



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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE _____ DATE _____
DOCUMENT NAME:

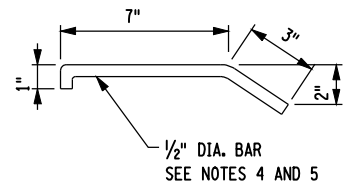
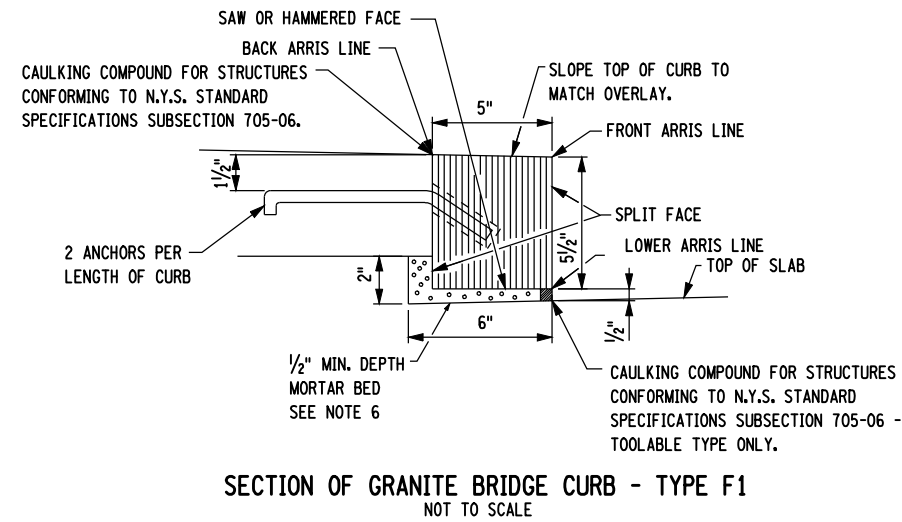
NYS ROUTE 185, S.H. 9527
VT ROUTE 17
LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN
COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

PIN 1805.81
NYS ROUTE 185
PS&E DATE MAR. 1, 2010
AMENDMENT NO. 1
DATE MAR 29, 2010

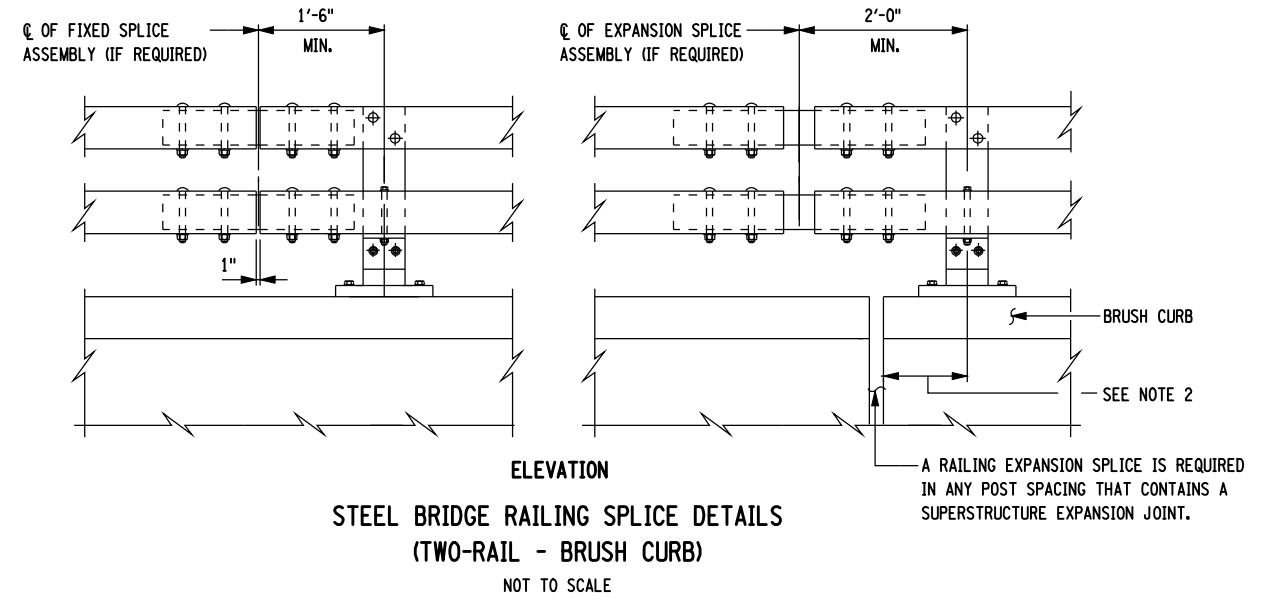
BRIDGES
BIN 5521180
CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
STEEL BRIDGE RAILING
TWO RAIL AND BRUSH CURB

CONTRACT NUMBER
D261458
DRAWING NO. ST-240
SHEET NO. 365A OF 432A



DETAIL OF ANCHOR BAR
NOT TO SCALE

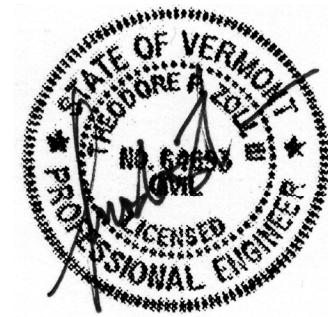


STEEL BRIDGE RAILING SPLICE DETAILS
(TWO-RAIL - BRUSH CURB)
NOT TO SCALE

NOTES:

1. 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.
2. THE MINIMUM DISTANCE FROM THE POST TO AN EXPANSION JOINT SHALL BE DETERMINED BY THE MINIMUM EDGE DISTANCE OF 5" FROM ANY ANCHOR STUD TO THE END OF THE SLAB, OR TO THE EXPANSION JOINT RECESS POUR, IF ONE IS USED. ON PRESTRESSED CONCRETE BRIDGES, THE POST SHALL BE LOCATED TO MINIMIZE ANCHOR PLATE/END BLOCK REINFORCEMENT CONFLICTS. POST SPACING SHALL BE ADJUSTED ACCORDINGLY.
3. BRUSH CURB SHALL BE INCLUDED IN UNIT PRICE BID FOR GRANITE BRIDGE CURB (TYPE F1), ITEM 609.0302.
4. 1/2" DIA. BAR SHALL CONFORM TO N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 709-07 AND GALVANIZED IN ACCORDANCE WITH SUBSECTION 719-01. 40 KSI STEEL MAY BE USED IN LIEU OF 60 KSI OR 75 KSI STEEL. PAY FOR UNDER STONE CURB-BRIDGE (TYPE F1), ITEM 609.0302.
5. CURB ANCHORS SHALL BE INSERTED INTO HOLES DRILLED IN THE REAR FACE OF THE STONE CURB. THE HOLES SHALL BE THOROUGHLY CLEANED AND FILLED WITH CONCRETE GROUTING MATERIAL CONFORMING TO N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 701-05, IMMEDIATELY BEFORE PLACING THE CURB ANCHOR. THE CURB ANCHORS SHALL BE SECURELY SUPPORTED IN POSITION UNTIL THE GROUT HAS HARDENED. THE COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CURB ITEM 609.0302.
6. ALL MORTAR SHALL CONFORM TO N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 705-21.

PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C. ON: 03/29/10
 PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C. ON: 03/29/10



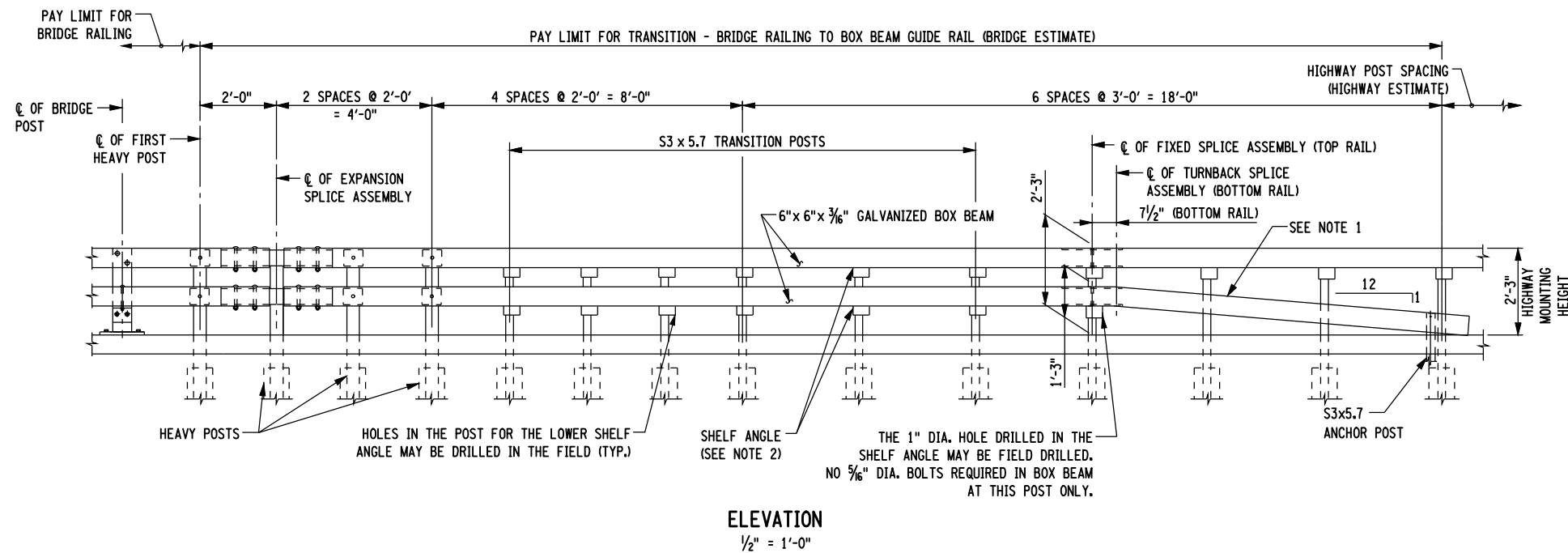
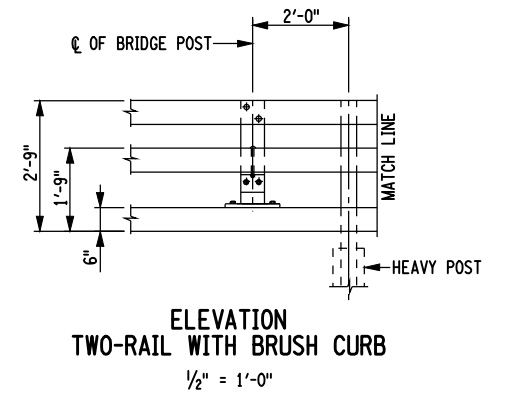
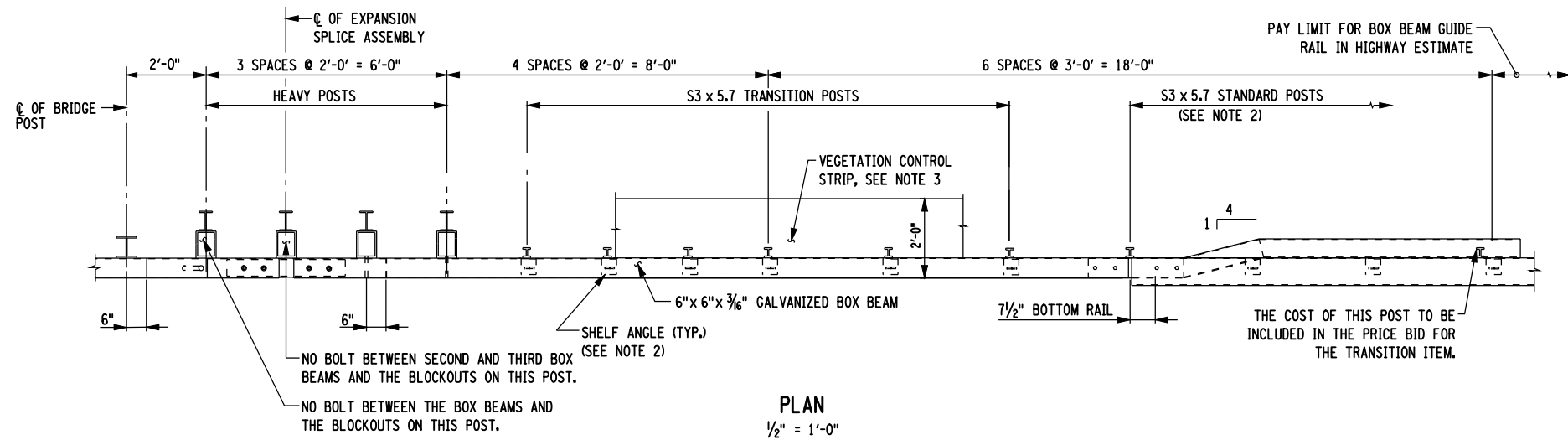
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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE _____ DATE _____
DOCUMENT NAME:

NYS ROUTE 185, S.H. 9527	PIN 1805.81	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
VT ROUTE 17	NYS ROUTE 185	BIN 5521180		STEEL BRIDGE RAILING TWO RAIL AND BRUSH CURB DETAILS	D261458
LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN	PS&E DATE MAR. 1, 2010 AMENDMENT NO. 1				DRAWING NO. ST-241 SHEET NO. 366A OF 432A
COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT	DATE MAR 29, 2010				

FILE NAME = \\ny008dep1f0ccadd6652 Lake Champlain\FINAL DESIGN\180581_cpb_241_rlg.Br gRail2.dgn
 DATE/TIME = 29-MAR-2010 06:21
 USER = slam
 DESIGN SUPERVISOR: I.P. ZOLI
 JOB MANAGER: I.F. POTTS
 DESIGNED BY: C. BROSDO
 CHECKED BY: G. TOW
 ESTIMATED BY: C. BROSDO
 DRAFTED BY: P. R. ELLA
 CHECKED BY: G. TOW

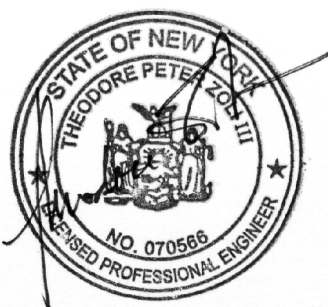


NOTES:

1. THE COST OF THE POSTS, SPLICE TUBE AND RAIL FOR THE LOWER TUBE FLARE SECTION IS INCLUDED IN THE PRICE BID FOR THE TRANSITION BRIDGE RAILING ITEM 568.70.
2. SEE TYPICAL RAIL TO POST CONNECTION DETAIL ON CURRENT HIGHWAY STANDARD SHEET TITLED "BOX BEAM GUIDE RAIL".
3. SEE TYPICAL RAILING TRANSITION DETAILS ON CURRENT HIGHWAY STANDARD SHEET TITLED "TRANSITION: BOX MEDIAN - SINGLE SLOPE MEDIAN".
4. PAVE THE VEGETATION CONTROL STRIP WITH THE SAME MATERIAL AS IN THE PAVED SHOULDER. PAYMENT WILL BE MADE UNDER THE PAVED SHOULDER ITEM.

PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
ON: 03/29/10

PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
ON: 03/29/10



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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE _____ DATE _____
DOCUMENT NAME:

NYS ROUTE 185, S.H. 9527
VT ROUTE 17
LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN
COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

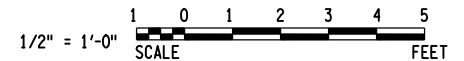
PIN 1805.81
NYS ROUTE 185
PS&E DATE MAR. 1, 2010
AMENDMENT NO. 1
DATE MAR 29, 2010

BRIDGES
BIN 5521180

CULVERTS

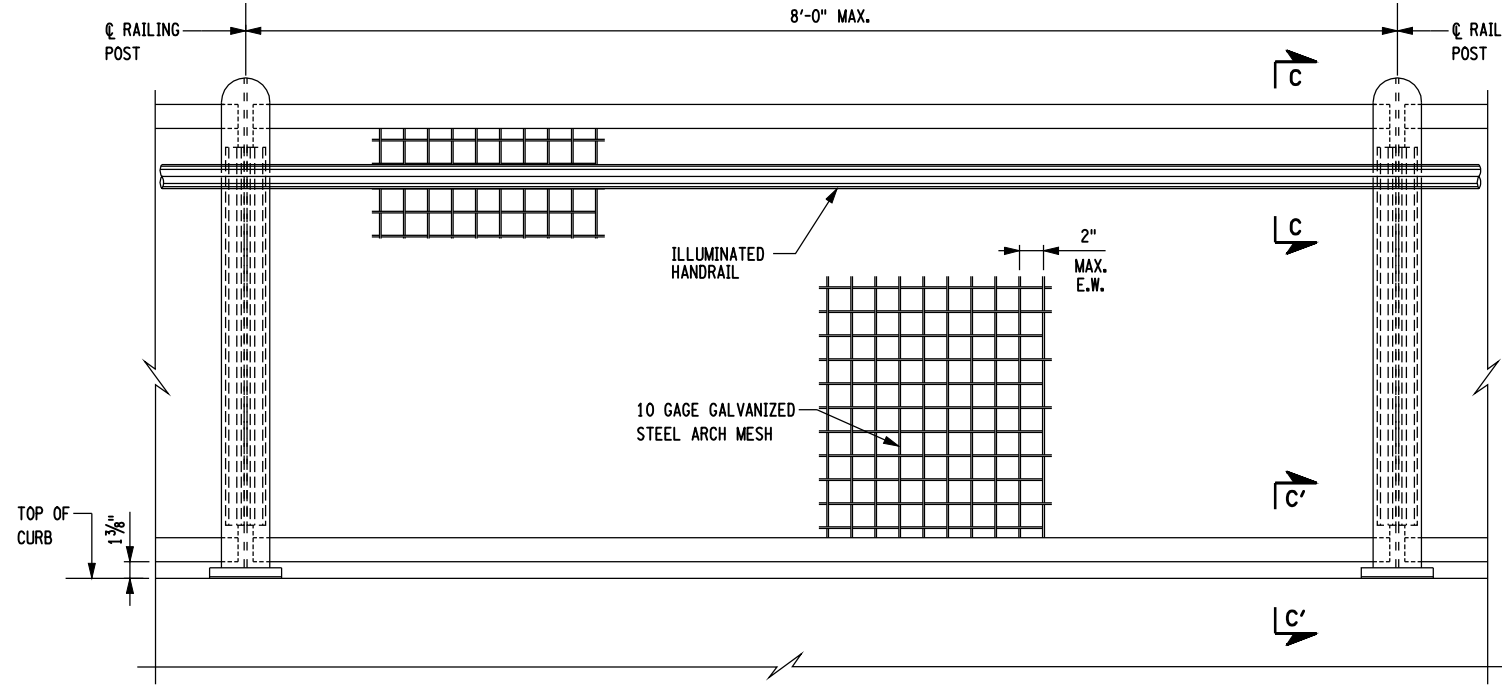
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
STEEL BRIDGE RAILING TO BOX BEAM GUIDE RAILING TRANSITION

CONTRACT NUMBER
D261458
DRAWING NO. ST-242
SHEET NO. 367A OF 432A

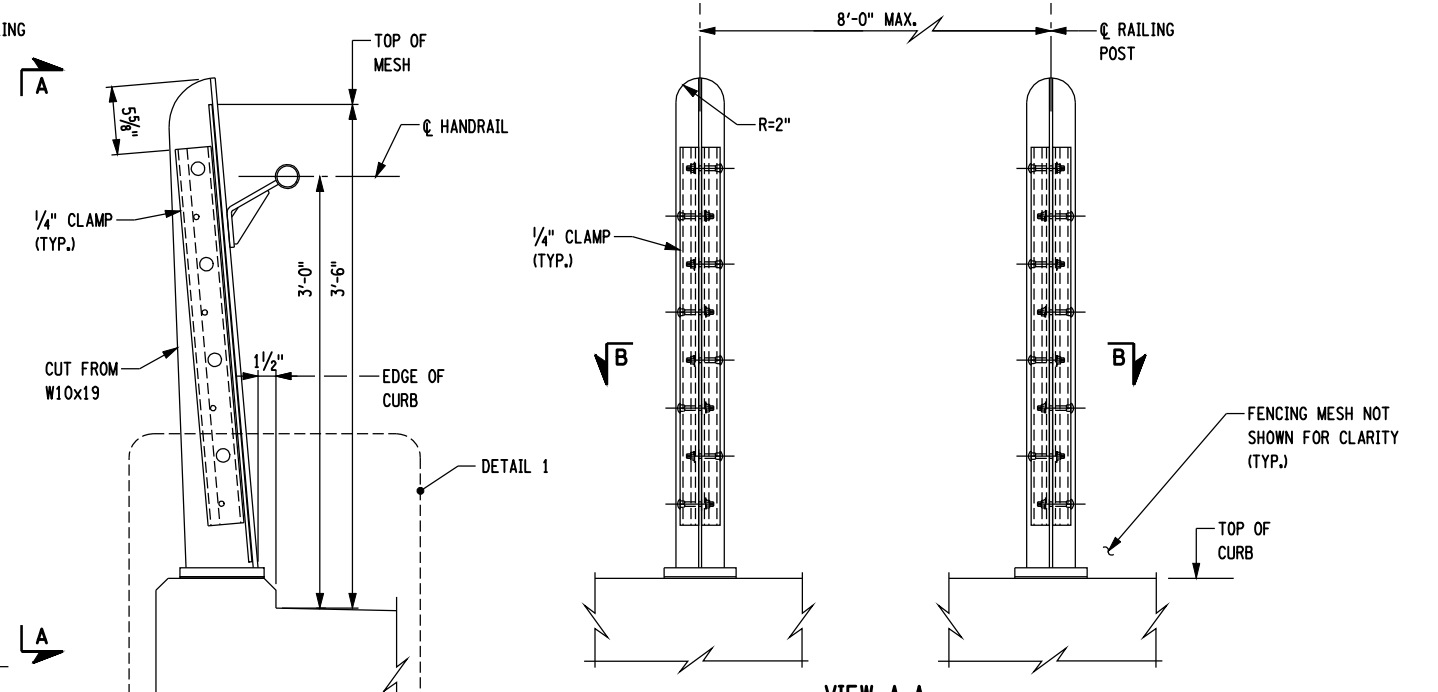


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 USER = slam
 DESIGN SUPERVISOR: I.P. ZOLI
 JOB MANAGER: T.F. POTTS
 DESIGNED BY: T.F. POTTS
 CHECKED BY: G. TOW
 ESTIMATED BY: C. BROSDO
 DRAFTED BY: E. TOBIAS
 CHECKED BY: G. TOW

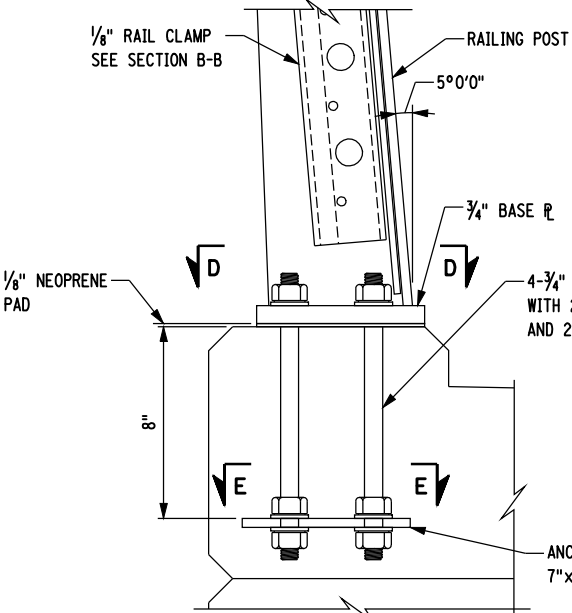
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 DATE/TIME = 29-MAR-2010 06:21
 USER = slam
 DESIGN SUPERVISOR I.P. ZOLI
 JOB MANAGER I.F. POTTS
 DESIGNED BY C. BROSDO
 CHECKED BY G. TOW
 DRAFTED BY S. LAM
 ESTIMATED BY C. BROSDO
 CHECKED BY G. TOW



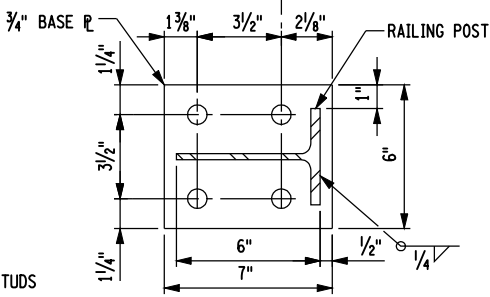
TYPICAL PANEL FRONT ELEVATION
PEDESTRIAN RAILING
1/2" = 1'-0"



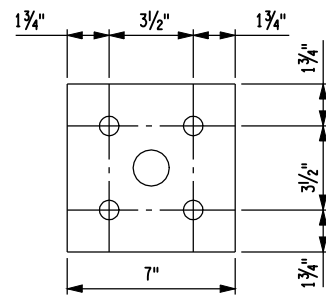
POST ELEVATION
PEDESTRIAN RAILING
1/2" = 1'-0"



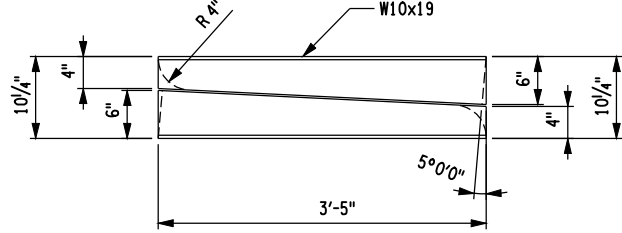
DETAIL 1
3" = 1'-0"



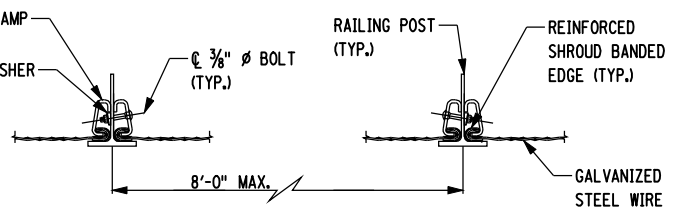
SECTION D-D
3" = 1'-0"



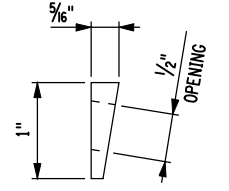
SECTION E-E



W10x19 CUTTING DIAGRAM
1" = 1'-0"



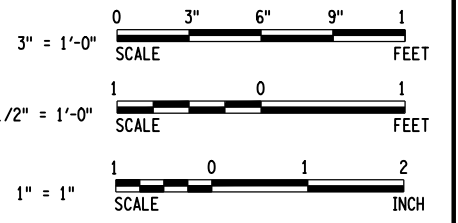
SECTION B-B
1/2" = 1'-0"



BEVELED WASHER DETAIL
1" = 1"

NOTES:

- ALL RAILING STEEL SHALL BE ARCHITECTURALLY EXPOSED STRUCTURAL STEEL CONFORMING TO SECTION 10 OF AISC CODE OF STANDARD PRACTICE, AND SHALL BE HOT DIP GALVANIZED.
- POSTS SHALL BE SET PERPENDICULAR TO THE THEORETICAL GRADE LINE, AND MESH PANELS SHALL HAVE SQUARE CORNERS.
- RAIL CLAMP SHALL BE A36 STEEL AND HOT DIP GALVANIZED TO MATCH RAILING POSTS.
- ALL BOLTS SHALL CONFORM TO ASTM A325 AND BE HOT DIP GALVANIZED.
- BRIDGE PEDESTRIAN RAILING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ORNAMENTAL PEDESTRIAN RAILING, ITEM 568.80010010.
- FOR SECTIONS C-C AND C'-C', SEE DWG. NO. ST-244.
- ALL STEEL FOR ORNAMENTAL PEDESTRIAN RAILING SHALL NOT BE PAINTED AND SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123. THE COST OF GALVANIZING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ORNAMENTAL PEDESTRIAN RAILING, ITEM 568.80010010.



PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
ON: 03/29/10



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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE _____ DATE _____
DOCUMENT NAME:

NYS ROUTE 185, S.H. 9527
VT ROUTE 17
LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN
COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

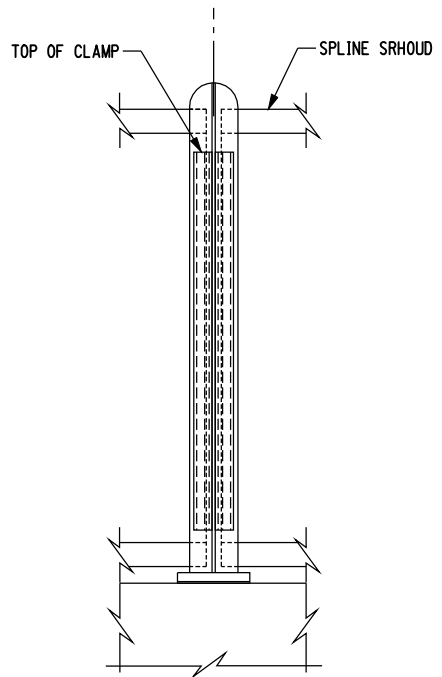
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NYS ROUTE 185
PS&E DATE MAR. 1, 2010
AMENDMENT NO. 1
DATE MAR 29, 2010

BRIDGES
BIN 5521180

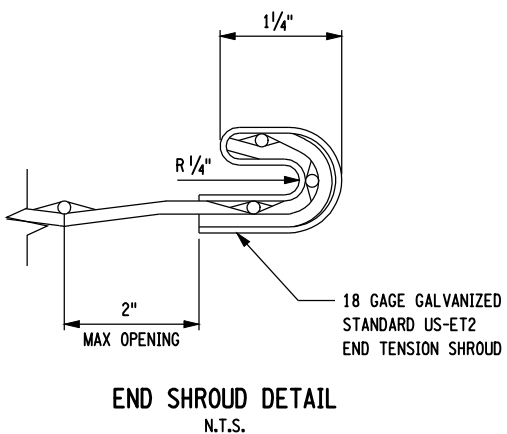
CULVERTS
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
ORNAMENTAL
PEDESTRIAN RAILING DETAILS - 1

CONTRACT NUMBER
D261458
DRAWING NO. ST-243
SHEET NO. 368A OF 432A

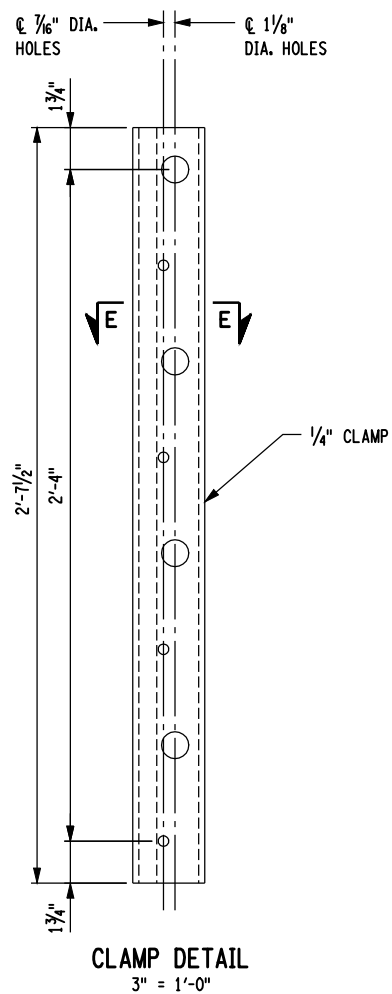
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 DATE/TIME = 29-MAR-2010 06:21
 USER = slm
 DESIGN SUPERVISOR I.P. ZOLI
 JOB MANAGER T.F. POTTS
 DESIGNED BY C. BROSDIO
 CHECKED BY G. TOW
 ESTIMATED BY C. BROSDIO
 DRAFTED BY E. TOBIAS
 CHECKED BY G. TOW



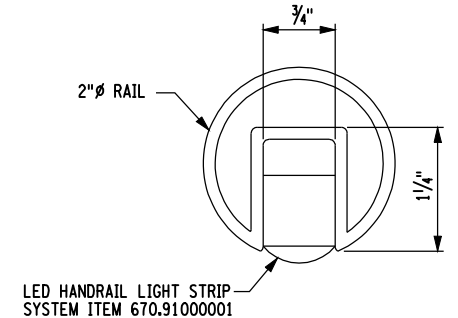
TYPICAL PANEL
1/2" = 1'-0"



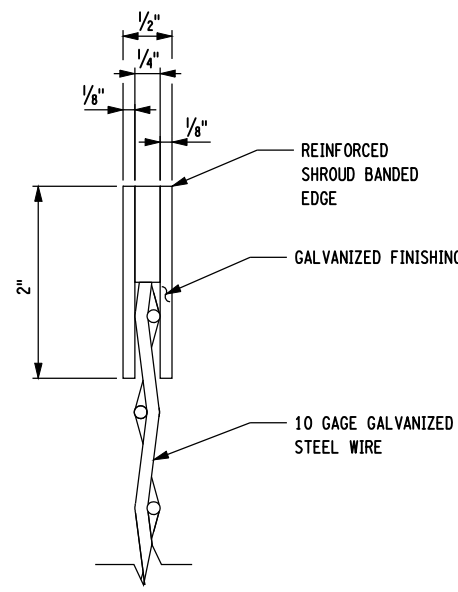
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N.T.S.



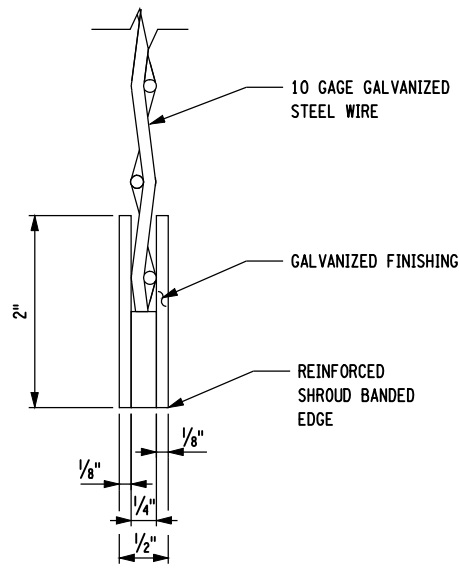
CLAMP DETAIL
3" = 1'-0"



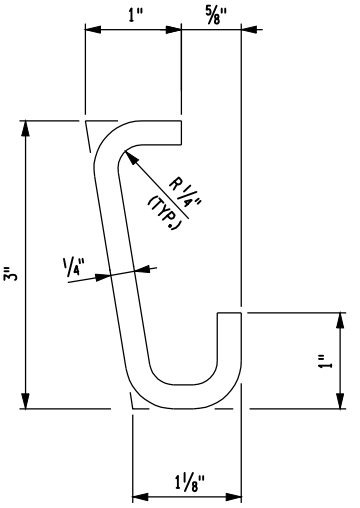
HANDRAIL LIGHT DETAIL
N.T.S.



SECTION C-C
N.T.S.

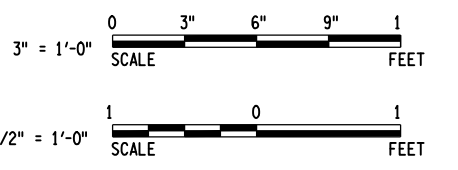


SECTION C'-C'
N.T.S.



SECTION E-E
N.T.S.

- NOTES:**
- FOR ADDITIONAL NOTES AND THE LOCATION OF SECTIONS C-C AND C'-C', SEE DWG. NO. ST-243.



PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
 ON: 03/29/10
 PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
 ON: 03/29/10



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 SIGNATURE _____ DATE _____
 DOCUMENT NAME:

NYS ROUTE 185, S.H. 9527
 VT ROUTE 17
 LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN
 COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

PIN 1805.81
 NYS ROUTE 185
 PS&E DATE MAR. 1, 2010
 AMENDMENT NO. 1
 DATE MAR 29, 2010

BRIDGES
 BIN 5521180
 CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
 ORNAMENTAL
 PEDESTRIAN RAILING DETAILS - 2

CONTRACT NUMBER
 D261458
 DRAWING NO. ST-244
 SHEET NO. 369A OF 432A

STEEL ERECTION NOTES

1. THE CONTRACTOR SHALL PROVIDE FOR THE STABILITY OF STRUCTURAL STEEL DURING ALL PHASES OF ERECTION AND CONSTRUCTION, AS PROVIDED IN PARAGRAPH 204.2 OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (SCM).
2. THE DESIGN OF THIS STRUCTURE ASSUMES THAT THE STRUCTURAL STEEL IS COMPLETELY ERECTED BEFORE IT IS ALLOWED TO DEFLECT UNDER ITS OWN DEAD LOAD. DEFLECTIONS INCURRED DURING THE VARIOUS STAGES OF THE ERECTION METHOD ARE NOT CONSIDERED. THEREFORE, THE ACTUAL ERECTION METHODS AND SEQUENCES EMPLOYED BY THE CONTRACTOR MAY HAVE A SUBSTANTIAL EFFECT ON THE FINAL STEEL PROFILE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY COMPENSATORY ACTION TO ENSURE THAT THE FINAL ALIGNMENT AND PROFILE OF THE ERECTED STEEL CONFORMS TO SUBSECTION 1212, 1213, AND 1214 OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (SCM). ANY CORRECTIVE WORK NECESSARY TO RE-POSITION PREVIOUSLY ERECTED STEEL TO ACHIEVE ACCEPTABLE ALIGNMENT AND PROFILE MUST BE APPROVED BY THE D.C.E.S., AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE STATE.
3. IF THE CONTRACTOR ELECTS TO MOVE THE SPLICE LOCATION SHOWN ON THE PLANS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE A NEW YORK STATE PROFESSIONAL ENGINEER REDESIGN THE SPLICE. COST OF REDESIGN TO BE INCLUDED IN THE STEEL BID ITEM.

SITE PRIOR TO CONSTRUCTION
1" = 100'-0"

STAGE NOTES:

1. DEMOLITION OF EXISTING BRIDGE (BY OTHERS)
2. EXISTING PIERS 3, 5 AND 8 HAVE BEEN CUT DOWN TO ELEVATION +/-100.0
3. EXISTING PIER 4 BROKE DURING DEMOLITION APPROXIMATELY AT ELEVATION +/-96.0
4. APPROACH FOUNDATIONS HAVE BEEN CUT DOWN TO THE GROUND LINE. NOTE THAT ALL TEMPORARY SHORING IN SPANS 1 AND 8 SHALL BE SUPPORTED ON THE EXISTING APPROACH FOUNDATIONS
5. BULKHEAD CAUSEWAYS HAVE BEEN INSTALLED (BY OTHERS)

STAGE 1
1" = 100'-0"

STAGE NOTES:

1. INSTALL SHEET PILES TO MINIMIZE SIZE OF EXCAVATION AND CONSTRUCT PIER 7 (ASSUMED CAUSEWAY/LAND ACTIVITY)
2. CONSTRUCT VERMONT ABUTMENT (ASSUME LAND ACTIVITY)

STAGE 2
1" = 100'-0"

STAGE NOTES:

1. DRILL SHAFTS, INSTALL COFFERDAMS AND TREMIE SEAL CONCRETE AND CONSTRUCT PIER 2 (ASSUMED WATER ACTIVITY)
2. DRILL SHAFTS, INSTALL COFFERDAMS AND TREMIE SEAL CONCRETE AND CONSTRUCT PIER 6 (ASSUMED CAUSEWAY ACTIVITY)

STAGE 3
1" = 100'-0"

STAGE NOTES:

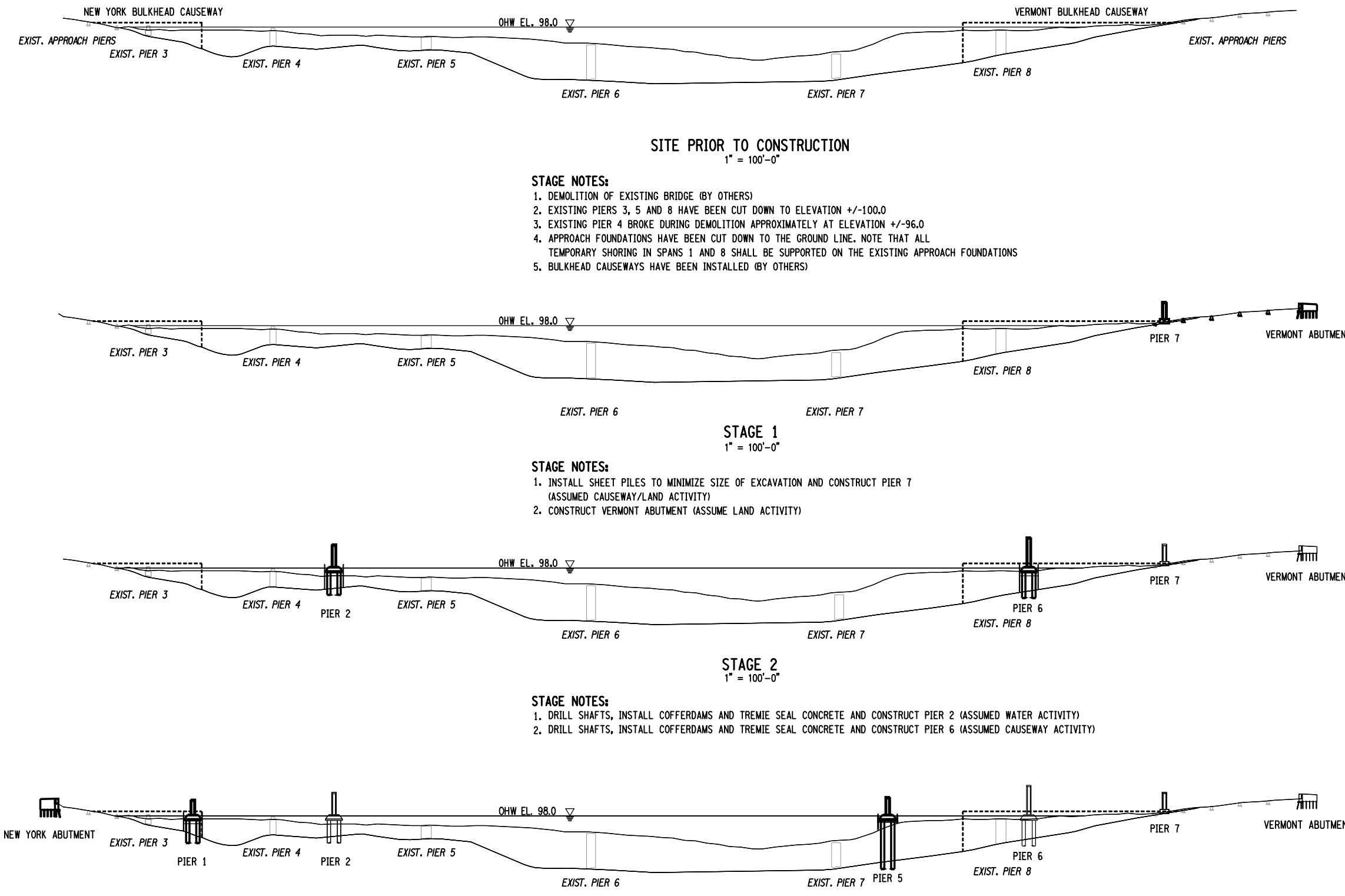
1. DRILL SHAFTS, INSTALL COFFERDAMS AND TREMIE SEAL CONCRETE AND CONSTRUCT PIER 1 (ASSUME CAUSEWAY ACTIVITY)
2. DRILL SHAFTS, INSTALL WATERTIGHT ENCLOSURE AND TREMIE SEAL CONCRETE, CONSTRUCT PIER 5 (ASSUME WATER ACTIVITY)
3. CONSTRUCT NEW ABUTMENT (ASSUMED LAND ACTIVITY)

LEGEND:

- F DENOTES FIXED BEARING
- E DENOTES EXPANSION BEARING
- TE DENOTES TEMPORARY EXPANSION BEARING

NOTES:

1. PIER CONSTRUCTION SHOWN COMPLETE. STAGED CONSTRUCTION ANTICIPATED.



PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C. ON: 03/29/10
 PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C. ON: 03/29/10



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 DOCUMENT NAME:

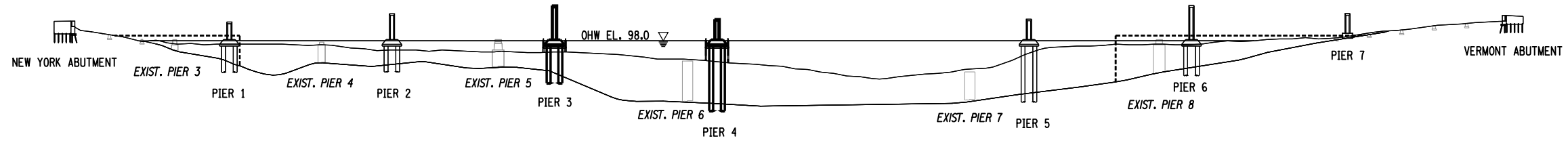
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 VT ROUTE 17
 LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN
 COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

PIN 1805.81
 NYS ROUTE 185
 PS&E DATE MAR. 1, 2010
 AMENDMENT NO. 1
 DATE MAR 29, 2010

BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
BIN 5521180		SUGGESTED ERECTION SEQUENCE 1 OF 5	D261458
			DRAWING NO. ST-251 SHEET NO. 376A OF 432A

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 USER = slam
 DESIGN SUPERVISOR T.P. ZOLI
 JOB MANAGER T.F. POTTS
 DESIGNED BY T.P. ZOLI
 CHECKED BY T.F. POTTS
 ESTIMATED BY C. BROSDO
 DRAFTED BY P. R. ELLA
 CHECKED BY G. TOW

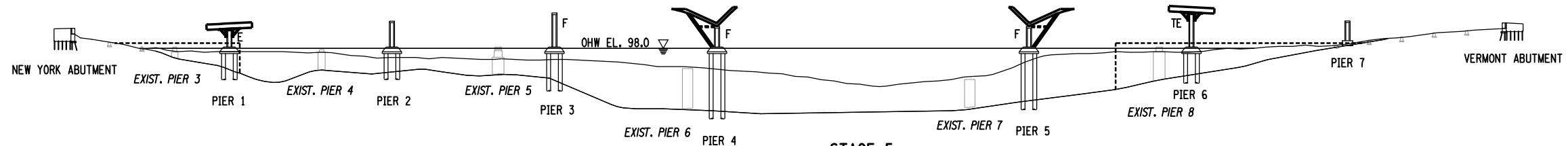
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 JOB MANAGER T.F. POTTS
 DESIGNED BY T.P. ZOLI
 CHECKED BY C. BROSDIO
 ESTIMATED BY C. BROSDIO
 DRAFTED BY P. R. ELLA
 CHECKED BY G. TOW



STAGE 4
1" = 100'-0"

STAGE NOTES:

1. DRILL SHAFTS, INSTALL WATERTIGHT ENCLOSURE AND TREMIE SEAL CONCRETE, CONSTRUCT PIER 3 (ASSUMED WATER ACTIVITY)
2. DRILL SHAFTS, INSTALL WATERTIGHT ENCLOSURE AND TREMIE SEAL CONCRETE, CONSTRUCT PIER 4 (ASSUMED WATER ACTIVITY)



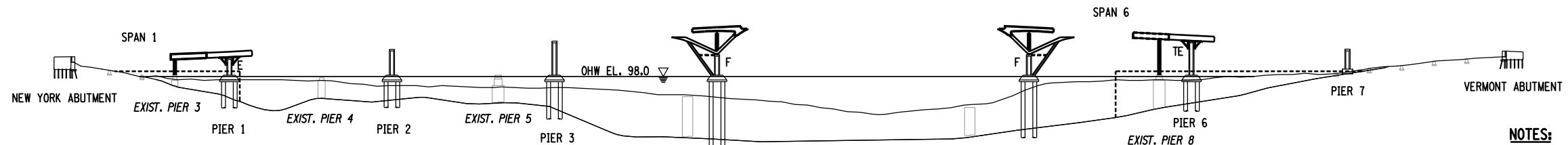
STAGE 5
1" = 100'-0"

STAGE NOTES:

1. ERECT "ANGEL WINGS" ON PIERS 1 AND 6 (ASSUMED CAUSEWAY ACTIVITY)
2. ERECT TEMPORARY FALSEWORK TOWERS ON PIERS 4 AND 5 (ASSUMED WATER ACTIVITY)
3. ERECT DELTA FRAME LEGS AT PIER 4 AND 5 (ASSUMED WATER ACTIVITY)
4. ERECT PIER TABLE GIRDER SEGMENTS AT PIERS 1 AND 6 (ASSUMED CAUSEWAY ACTIVITY)

LEGEND:

- F DENOTES FIXED BEARING
- E DENOTES EXPANSION BEARING
- TE DENOTES TEMPORARY EXPANSION BEARING



STAGE 6
1" = 100'-0"

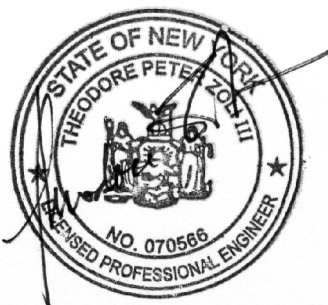
STAGE NOTES:

1. ERECT TEMPORARY FALSEWORK TOWERS ON TOP OF PIERS 4 AND 5 (ASSUMED WATER ACTIVITY)
2. ERECT TEMPORARY FALSEWORK TOWERS ON EXISTING PIERS 3 AND 8 (ASSUMED CAUSEWAY ACTIVITY)
3. ERECT MAIN SPAN HALF OF THE DELTA FRAME TOP GIRDERS (ASSUMED WATER ACTIVITY)
4. ERECT GIRDER SEGMENTS IN SPANS 1 AND 6 (ASSUMED CAUSEWAY ACTIVITY)

NOTES:

1. PIER CONSTRUCTION SHOWN COMPLETE. STAGED CONSTRUCTION ANTICIPATED.
2. FOR STEEL ERECTION NOTES, SEE DWG. NO. ST-251.
3. GIRDER CAMBERS FOR STEEL DEAD LOAD AS SHOWN IN THE CAMBER TABLES ARE FOR THE FULLY ERECTED DEAD LOAD CONDITION ONLY.

PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C. ON: 03/29/10
 PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C. ON: 03/29/10



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DESCRIPTION OF WORK:

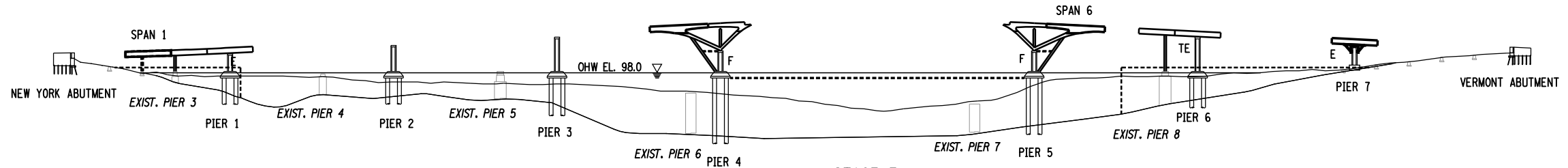
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DOCUMENT NAME:

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VT ROUTE 17
LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN
COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

PIN 1805.81
NYS ROUTE 185
PS&E DATE MAR. 1, 2010
AMENDMENT NO. 1
DATE MAR 29, 2010

BRIDGES
BIN 5521180

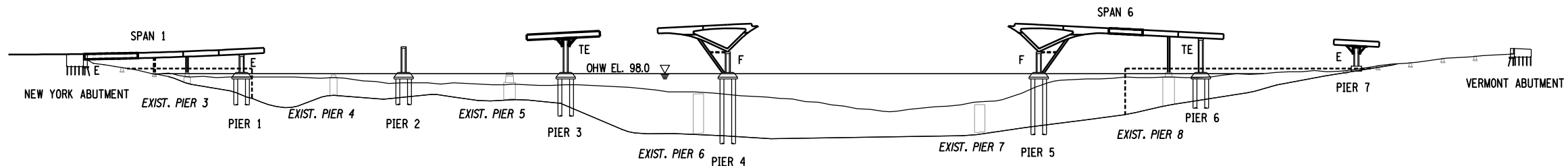
CULVERTS
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
CONTRACT NUMBER
D261458
SUGGESTED ERECTION SEQUENCE
2 OF 5
DRAWING NO. ST-252
SHEET NO. 377A OF 432A



STAGE 7
1" = 100'-0"

STAGE NOTES:

1. ERECT BACKSPAN HALF OF THE DELTA FRAME TOP GIRDERS (ASSUMED WATER ACTIVITY)
2. ERECT TEMPORARY FALSEWORK TOWERS NORTH OF NEW YORK ABUTMENT ON EXISTING APPROACH PIERS (ASSUMED CAUSEWAY OR LAND ACTIVITY)
3. REMOVE "ANGEL WINGS" FROM PIERS 1 AND 6 (ASSUMED CAUSEWAY ACTIVITY)
4. INSTALL "ANGEL WINGS" ON PIER 7 (ASSUMED CAUSEWAY ACTIVITY)
5. ERECT PIER TABLE GIRDER SEGMENTS AT PIER 7 (ASSUMED CAUSEWAY ACTIVITY)
6. ERECT GIRDER SEGMENTS IN SPAN 1 (ASSUMED CAUSEWAY OR LAND ACTIVITY)



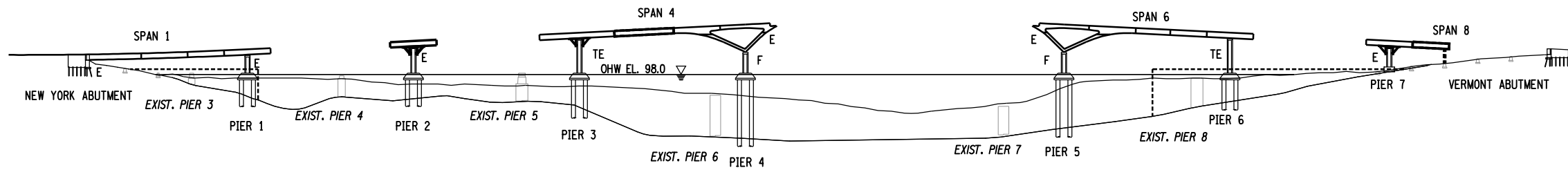
STAGE 8
1" = 100'-0"

STAGE NOTES:

1. ERECT CLOSURE GIRDER SEGMENTS AT SPAN 1 (ASSUMED LAND ACTIVITY)
2. ERECT CLOSURE GIRDER SEGMENTS AT SPAN 6 (ASSUMED CAUSEWAY OR WATER ACTIVITY)
3. REMOVE TEMPORARY FALSEWORK TOWERS FROM TOP OF PIERS 4 AND 5. REPAIR CONCRETE AS REQUIRED WHERE FALSEWORK CONTACTED PIER. REMOVE ANCHOR BOLTS AND GROUT ALL REMAINING ANCHOR BOLT HOLES (ASSUMED WATER ACTIVITY)
4. ERECT "ANGEL WINGS" ON PIER 3 (ASSUMED WATER ACTIVITY)
5. ERECT PIER TABLE GIRDER SEGMENTS OVER PIER 3 (ASSUMED WATER ACTIVITY)

LEGEND:

- F DENOTES FIXED BEARING
- E DENOTES EXPANSION BEARING
- TE DENOTES TEMPORARY EXPANSION BEARING



STAGE 9
1" = 100'-0"

STAGE NOTES:

1. ERECT "ANGEL WINGS" ON PIER 2 (ASSUMED WATER ACTIVITY)
2. ERECT PIER TABLE GIRDER SEGMENTS AT PIER 2 (ASSUMED WATER ACTIVITY)
3. REMOVE TEMPORARY FALSEWORK TOWERS AT EXISTING PIERS 3 AND 8 (ASSUMED CAUSEWAY ACTIVITY)
4. REMOVE TEMPORARY FALSEWORK TOWERS SUPPORTED ON EXISTING NEW YORK APPROACH PIERS (ASSUMED CAUSEWAY/LAND ACTIVITY)
5. REMOVE TEMPORARY FALSEWORK TOWERS FROM PIERS 4 AND 5. REPAIR CONCRETE AS REQUIRED WHERE FALSEWORK CONTACTED PIER. REMOVE ANCHOR BOLTS AND GROUT ALL REMAINING ANCHOR BOLT HOLES (ASSUMED WATER ACTIVITY)
6. ERECT TEMPORARY FALSEWORK TOWERS NORTH OF NEW PIER 7 ON EXISTING APPROACH PIERS (ASSUMED LAND ACTIVITY)
7. ERECT GIRDER SEGMENTS IN SPAN 8 (ASSUMED CAUSEWAY ACTIVITY)
8. REMOVE REMAINING PORTION OF EXISTING PIER 8 TO 2'-0" MINIMUM BELOW EXISTING MUDLINE (ASSUMED CAUSEWAY OR WATER ACTIVITY)
9. ERECT CLOSURE GIRDER SEGMENTS IN SPAN 4 (ASSUMED WATER ACTIVITY)

NOTES:

1. FOR STEEL ERECTION NOTES, SEE DWG. NO. ST-251.
2. GIRDER CAMBERS FOR STEEL DEAD LOAD AS SHOWN IN THE CAMBER TABLES ARE FOR THE FULLY ERECTED DEAD LOAD CONDITION ONLY.

PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
ON: 03/29/10



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DESCRIPTION OF WORK:

SIGNATURE _____ DATE _____
DOCUMENT NAME:

NYS ROUTE 185, S.H. 9527
VT ROUTE 17
LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN
COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

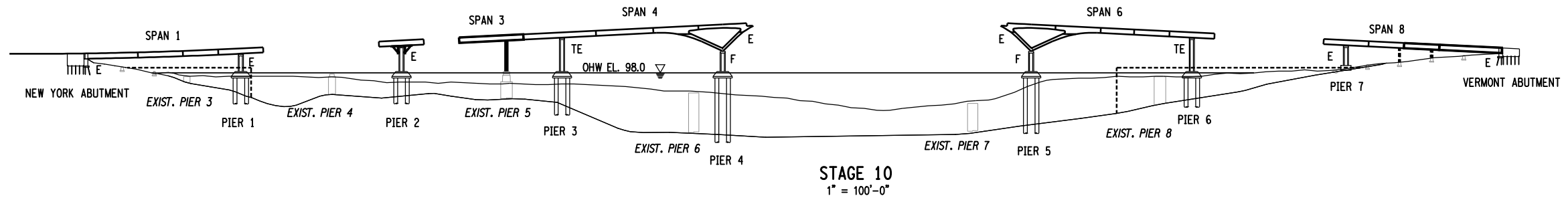
PIN 1805.81
NYS ROUTE 185
PS&E DATE MAR. 1, 2010
AMENDMENT NO. 1
DATE MAR 29, 2010

BRIDGES
BIN 5521180

CULVERTS
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SUGGESTED ERECTION SEQUENCE
3 OF 5
CONTRACT NUMBER
D261458
DRAWING NO. ST-253
SHEET NO. 378A OF 432A

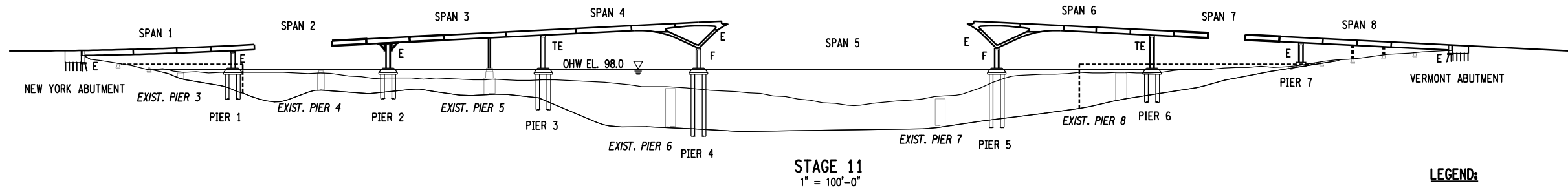
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DATE/TIME = 29-MAR-2010 06:48
USER = slam

DESIGN SUPERVISOR: T.P. ZOLLI JOB MANAGER: T.F. POTTS DESIGNED BY: T.P. ZOLLI ESTIMATED BY: C. BROSDIO DRAFTED BY: P. R. ELLA CHECKED BY: G. TOW



STAGE NOTES:

1. ERECT TEMPORARY FALSEWORK TOWERS AT EXISTING PIER 5 (ASSUMED WATER ACTIVITY)
2. ERECT GIRDER SEGMENTS IN SPAN 3 (ASSUMED WATER ACTIVITY)
3. ERECT TEMPORARY FALSEWORK TOWERS NORTH OF NEW PIER 7 ON EXISTING APPROACH PIERS (ASSUMED LAND ACTIVITY)
4. ERECT GIRDER SEGMENTS IN SPAN 8 (ASSUMED LAND ACTIVITY)
5. REMOVE REMAINING PORTION OF EXISTING PIER 3 TO 2'-0" MINIMUM BELOW EXISTING MUDLINE (ASSUMED CAUSEWAY OR WATER ACTIVITY)
6. REMOVE "ANGEL WINGS" FROM PIER 3 (ASSUMED WATER ACTIVITY)
7. ERECT CLOSURE GIRDER SEGMENTS IN SPAN 8 (ASSUMED LAND ACTIVITY)
8. REMOVE "ANGEL WINGS" FROM PIER 7 (ASSUMED CAUSEWAY ACTIVITY)

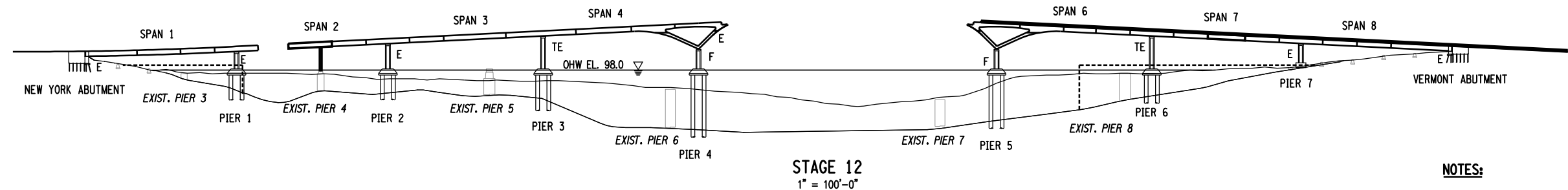


STAGE NOTES:

1. ERECT CLOSURE GIRDER SEGMENTS IN SPAN 3 (ASSUMED WATER ACTIVITY)
2. ERECT GIRDER SEGMENTS IN SPAN 2. PROVIDE TEMPORARY LATERAL BRACING AS REQUIRED FOR CANTILEVERED GIRDERS (ASSUMED WATER ACTIVITY)
3. ERECT GIRDER SEGMENTS IN SPAN 7. PROVIDE TEMPORARY LATERAL BRACING AS REQUIRED FOR CANTILEVERED GIRDERS (ASSUMED CAUSEWAY ACTIVITY)

LEGEND:

- F DENOTES FIXED BEARING
- E DENOTES EXPANSION BEARING
- TE DENOTES TEMPORARY EXPANSION BEARING



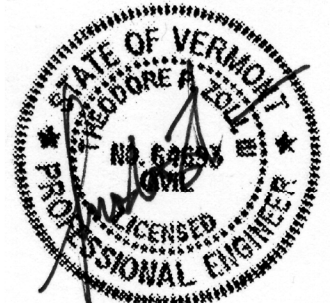
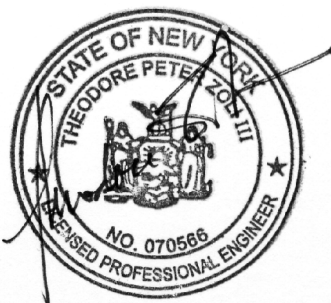
STAGE NOTES:

1. ERECT CLOSURE GIRDER SEGMENTS IN SPAN 7 (ASSUMED CAUSEWAY ACTIVITY)
2. ERECT TEMPORARY FALSEWORK TOWERS AT EXISTING PIER 4 (ASSUMED WATER ACTIVITY)
3. ERECT GIRDER SEGMENTS IN SPAN 2 (ASSUMED WATER ACTIVITY)
4. REMOVE FALSEWORK TOWER AT EXISTING PIER 5 (ASSUMED WATER ACTIVITY)
5. REMOVE "ANGEL WINGS" FROM PIER 2 (ASSUMED WATER ACTIVITY)
6. REMOVE TEMPORARY FALSEWORK TOWERS SUPPORTED ON EXISTING VERMONT APPROACH PIERS (ASSUMED LAND ACTIVITY)
7. POUR DECK IN ACCORDANCE WITH DECK PLACEMENT SEQUENCE ON DWG. NO. ST-217

NOTES:

1. FOR STEEL ERECTION NOTES, SEE DWG. NO. ST-251.
2. GIRDER CAMBERS FOR STEEL DEAD LOAD AS SHOWN IN THE CAMBER TABLES ARE FOR THE FULLY ERECTED DEAD LOAD CONDITION ONLY.

PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C. ON: 03/29/10
 PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C. ON: 03/29/10



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AS BUILT REVISIONS
DESCRIPTION OF WORK:

SIGNATURE _____ DATE _____
DOCUMENT NAME:

NYS ROUTE 185, S.H. 9527
VT ROUTE 17
LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN
COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

PIN 1805.81
NYS ROUTE 185
PS&E DATE MAR. 1, 2010
AMENDMENT NO. 1
DATE MAR 29, 2010

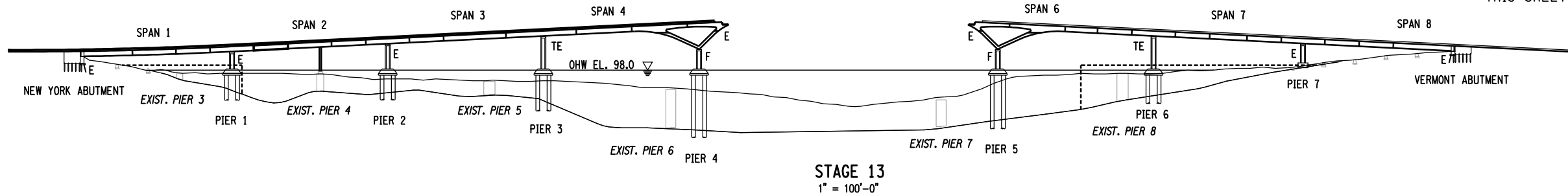
BRIDGES
BIN 5521180
CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
SUGGESTED ERECTION SEQUENCE
4 OF 5

CONTRACT NUMBER
D261458
DRAWING NO. ST-254
SHEET NO. 379A OF 432A

FILE NAME = \\nyw00dep1\pccadd\6652 Lake Champlain\FINAL DESIGN\180581_cpb_254_dtl_mis_Er6Seq4.dgn
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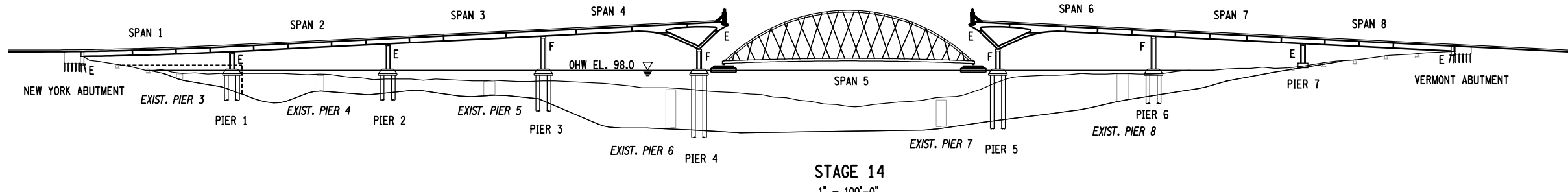
DESIGN SUPERVISOR: T.P. ZOLI JOB MANAGER: T.F. POTTS DESIGNED BY: T.P. ZOLI CHECKED BY: G. TOW
 DRAFTED BY: C. BROSDO ESTIMATED BY: C. BROSDO CHECKED BY: P. R. ELLA



STAGE 13
1" = 100'-0"

STAGE NOTES:

1. ERECT CLOSURE GIRDER SEGMENTS IN SPAN 2 (ASSUMED CAUSEWAY OR WATER ACTIVITY)
2. REMOVE REMAINING PORTION OF EXISTING PIER 5 TO 2'-0" MINIMUM BELOW EXISTING MUDLINE (ASSUMED CAUSEWAY OR WATER ACTIVITY)
3. POUR DECK IN ACCORDANCE WITH DECK PLACEMENT SEQUENCE ON DWG. NO. ST-215



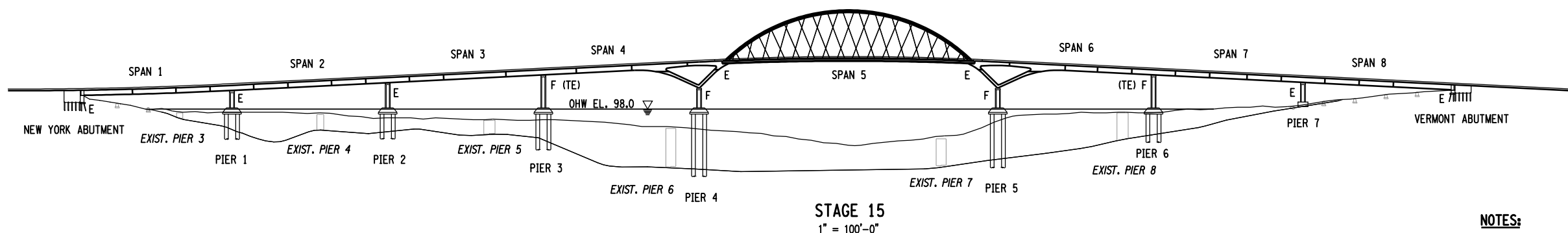
STAGE 14
1" = 100'-0"

STAGE NOTES:

1. REMOVE THE VERMONT BULKHEAD CAUSEWAY
2. REMOVE TEMPORARY FALSEWORK TOWERS FROM EXISTING PIER 4 (ASSUME WATER ACTIVITY)
3. REMOVE REMAINING PORTION OF EXISTING PIER 4 TO 2'-0" MINIMUM BELOW EXISTING MUDLINE (ASSUMED WATER ACTIVITY)
4. INSTALL TEMPORARY LONGITUDINAL KEEPERS FOR BEARINGS AT PIER 3 AND PIER 6 FOR ARCH LIFT
5. ERECT PARTIAL SEGMENT OF ARCH END FLOORBEAMS ON ENDS OF DELTA FRAMES. NOTE: SET FLOORBEAMS HIGH TO ALLOW SPLICING WITH MAIN SPAN ARCH AFTER LIFTING IN STAGE 15 (ASSUMED WATER ACTIVITY) ERECT TEMPORARY FALSEWORK
6. AT ENDS OF DELTA FRAMES FOR STRAND JACKS (ASSUMED WATER ACTIVITY)
7. FLOAT-IN AND POSITION NEW ARCH SPAN (SPAN 5)

LEGEND:

- F DENOTES FIXED BEARING
- E DENOTES EXPANSION BEARING
- TE DENOTES TEMPORARY EXPANSION BEARING



STAGE 15
1" = 100'-0"

STAGE NOTES:

1. LIFT ARCH INTO POSITION AND SECURE PERMANENT SUPPORT STRUCTURE
2. REMOVE LIFTING BEAMS
3. REMOVE TEMPORARY LONGITUDINAL KEEPERS FOR BEARINGS (TE) AT PIER 3 AND PIER 6 FOR ARCH CONCRETE PLACEMENT
4. ERECT PRECAST PANELS (ROADWAY AND SIDEWALK) ON MAIN ARCH SPAN (ASSUMED WATER ACTIVITY), SEE DECK PLACEMENT SEQUENCE
5. POUR TRANSVERSE CLOSURE JOINTS OF DECK ON MAIN SPAN ARCH PER DWG. NO. ST-216
6. STRESS LONGITUDINAL P.T. IN THE DECK AND SIDEWALK
7. POUR REMAINING DECK POURS AND CLOSURES PER DWG. NOS. ST-215 TO ST-217.
8. INSTALL PERMANENT LONGITUDINAL KEEPERS FOR BEARINGS AT PIER 3 AND PIER 6
9. REMOVE NEW YORK BULKHEAD CAUSEWAY
10. INSTALL RAILING, EXPANSION JOINTS, CURBS AND LIGHTS AND PERFORM FINAL DECK SURFACE GROOVING

NOTES:

1. FOR STEEL ERECTION NOTES, SEE DWG. NO. ST-251.
2. GIRDER CAMBERS FOR STEEL DEAD LOAD AS SHOWN IN THE CAMBER TABLES ARE FOR THE FULLY ERECTED DEAD LOAD CONDITION ONLY.

PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
ON: 03/29/10



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COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT

PIN 1805.81
NYS ROUTE 185
PS&E DATE MAR. 1, 2010
AMENDMENT NO. 1
DATE MAR 29, 2010

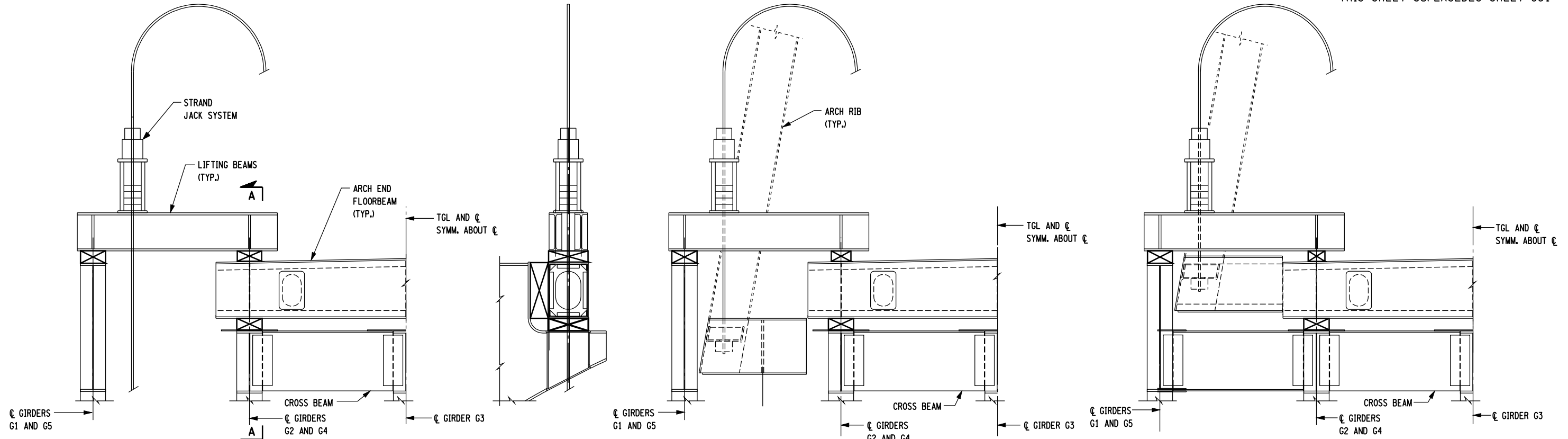
BRIDGES
BIN 5521180

CULVERTS
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
SUGGESTED ERECTION SEQUENCE
5 OF 5

CONTRACT NUMBER
D261458
DRAWING NO. ST-255
SHEET NO. 380A OF 432A

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JOB MANAGER T.F. POTTS
DESIGNED BY T.P. ZOLI
CHECKED BY C. BROSDO
ESTIMATED BY C. BROSDO
DRAFTED BY P. R. ELLA
CHECKED BY G. TOW

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 JOB MANAGER T.F. POTTS
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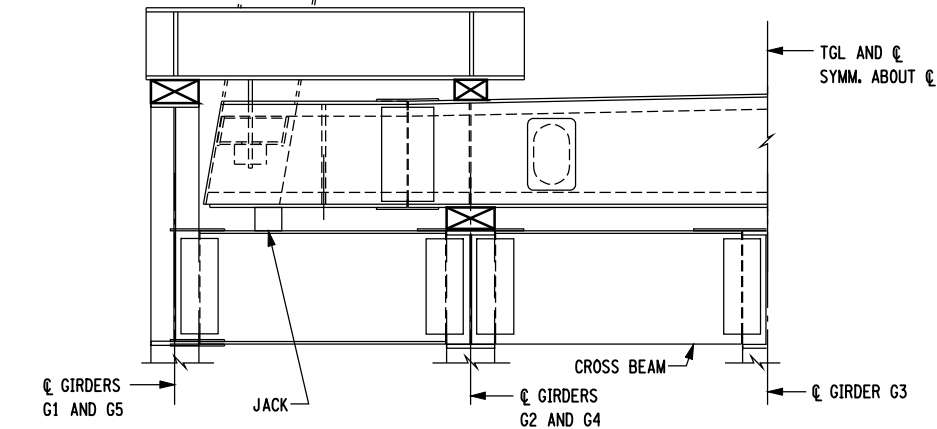


STAGE 1 - ERECT END FLOORBEAM AND LIFTING BEAMS ON TEMPORARY BLOCKING

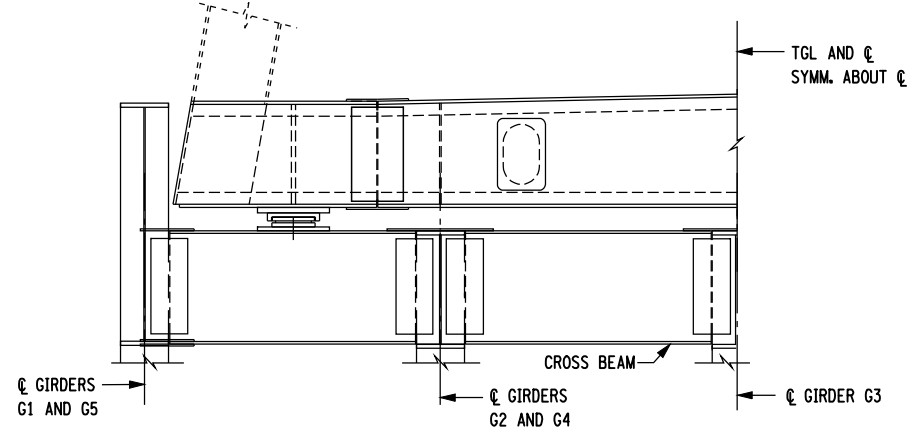
SECTION A-A

STAGE 2 - LIFT ARCH USING STRAND JACKS

STAGE 3 - SPLICE CROSS BEAM



STAGE 4 - SPLICE END FLOORBEAM AND PLACE ON JACKS

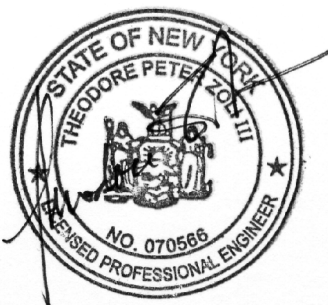


STAGE 5 - INSTALL BEARING AND REMOVE BLOCKING

NOTES:

- SEQUENCE SHOWN IS SCHEMATIC AND IS INTENDED TO DEMONSTRATE DESIGN INTENT. THE CONTRACTOR BEARS SOLE RESPONSIBILITY FOR HIS ADOPTED SEQUENCE. CONTRACTOR'S PLANS AND CALCULATIONS SHALL BE SUBMITTED BY A LICENSED NEW YORK STATE PROFESSIONAL ENGINEER TO DCES FOR APPROVAL.
- STRAND JACKING MAIN SPAN TO BE DONE PRIOR TO INSTALLING PRECAST DECK PANELS. SEE ERECTION SEQUENCE.
- INSTALL TEMPORARY LONGITUDINAL KEEPERS FOR BEARINGS AT PIERS 3 AND 6 PRIOR TO LIFTING ACTIVITIES.
- ALL TEMPORARY SUPPORT AND ERECTION WORK INCLUDING STRAND JACK SYSTEM, LIFTING BEAMS AND BLOCKING SHALL BE INCLUDED IN THE UNIT BID PRICE FOR STRUCTURAL STEEL TYPE 2, ITEM 564.0502.

PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
 ON: 03/29/10
 PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
 ON: 03/29/10



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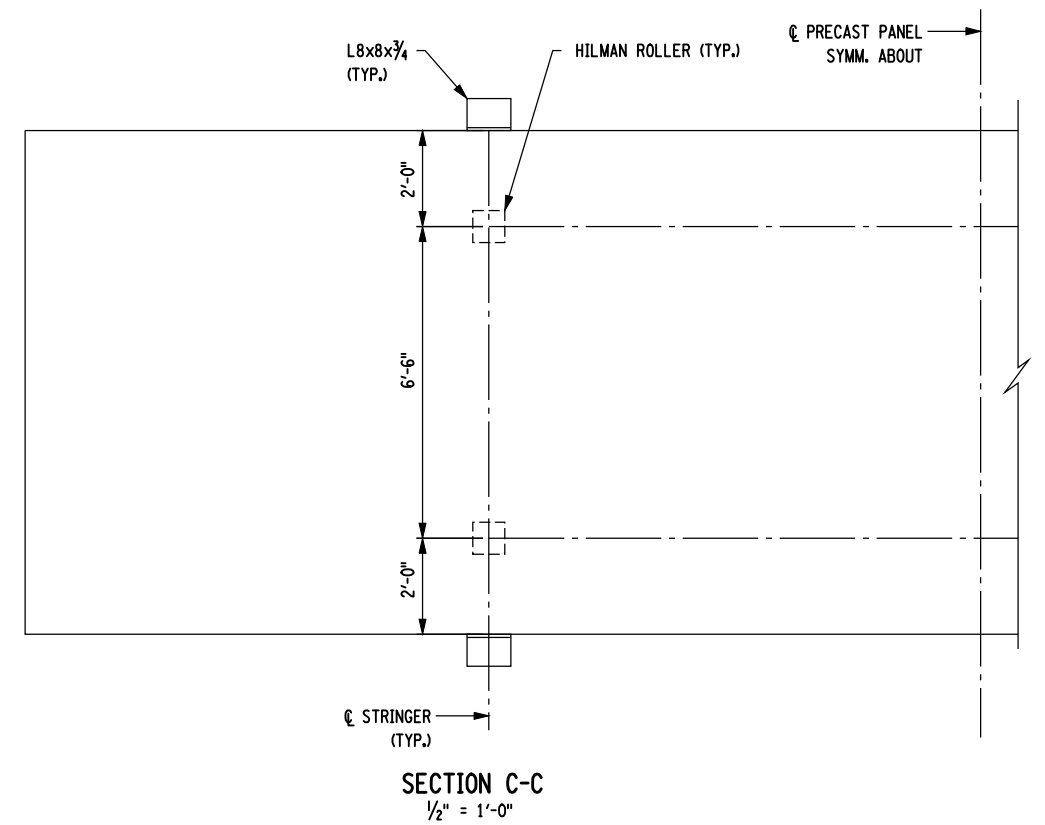
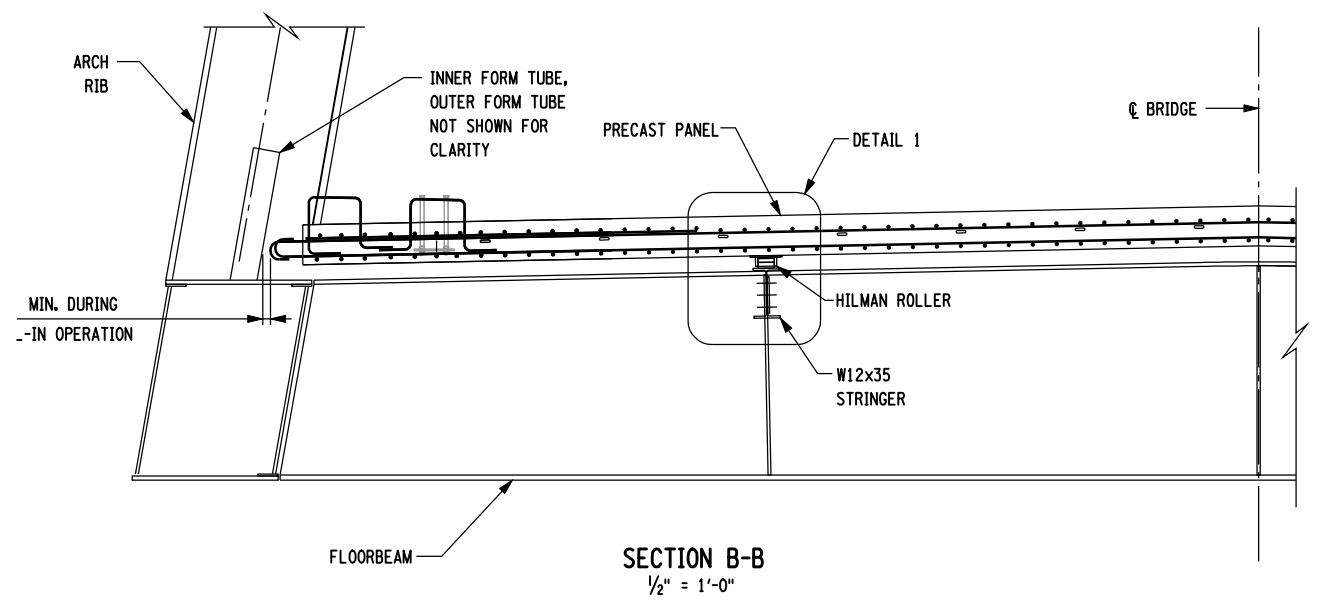
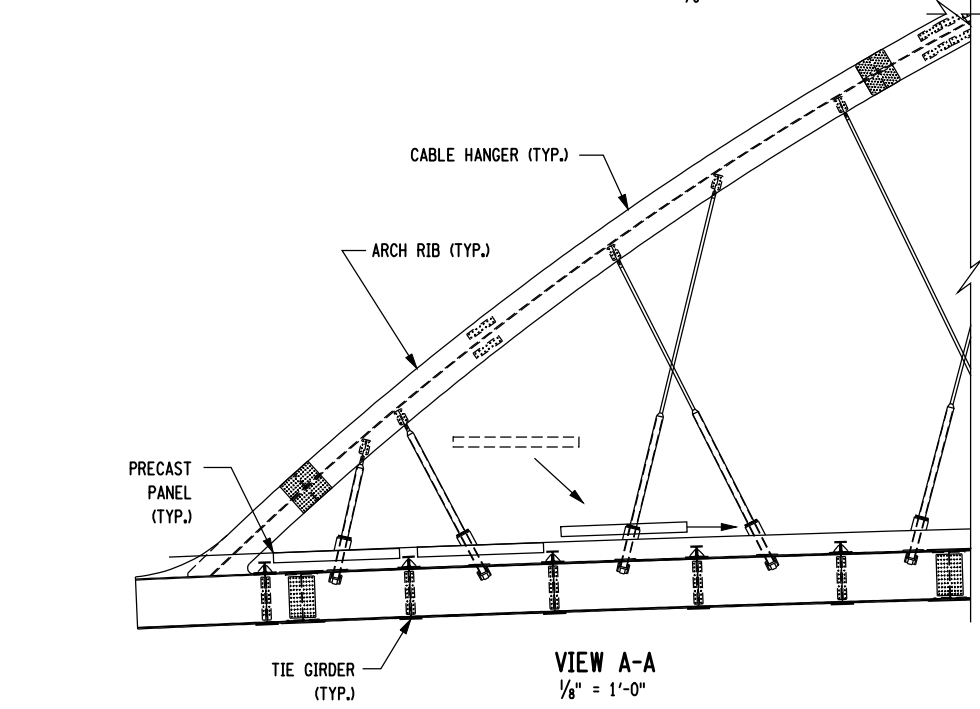
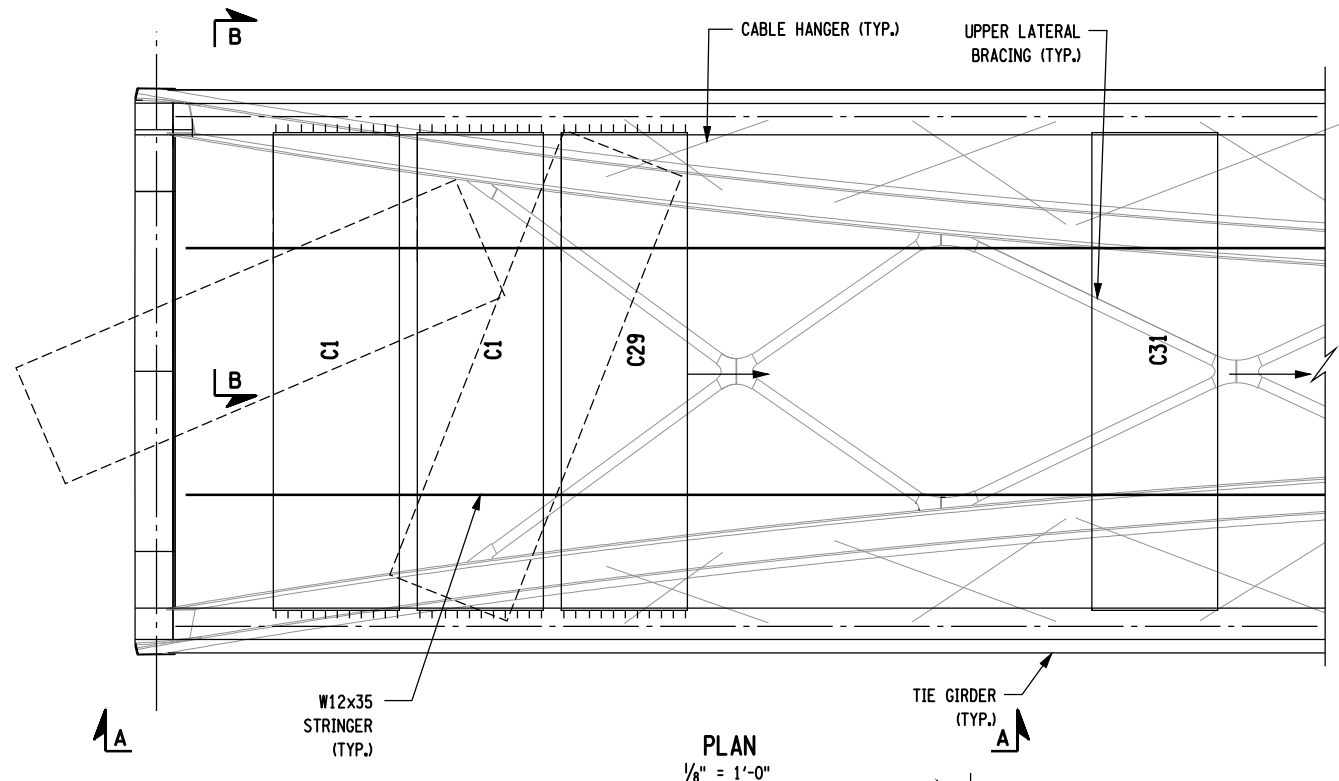
AS BUILT REVISIONS
 DESCRIPTION OF WORK:

SIGNATURE _____ DATE _____
 DOCUMENT NAME:

NYS ROUTE 185, S.H. 9527
 VT ROUTE 17
 LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN
 COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT
 PIN 1805.81
 NYS ROUTE 185
 PS&E DATE MAR. 1, 2010
 AMENDMENT NO. 1
 DATE MAR 29, 2010

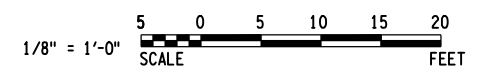
BRIDGES BIN 5521180	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D261458
		SUGGESTED ARCH SPAN HEAVY LIFT ERECTION DETAILS	DRAWING NO. ST-256 SHEET NO. 381A OF 432A

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 JOB MANAGER T.P. ZOLI
 DESIGNED BY T.P. ZOLI
 CHECKED BY R.J. LEE
 ESTIMATED BY C. BROSDO
 DRAFTED BY R.J. LEE
 CHECKED BY G. TOW

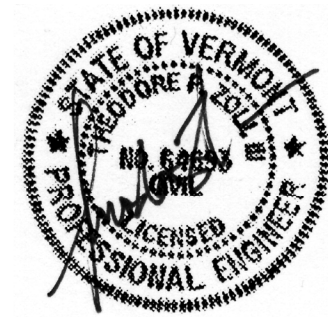


NOTES:

1. FOR ARCH GEOMETRY, SEE DWG. NO. ST-124.
2. FOR PRECAST DECK PANEL DETAILS, SEE DWG. NO. ST-204.
3. FOR PRECAST DECK PANEL PLACEMENT SEQUENCE, SEE DWG. NO. ST-216.
4. CANTILEVER SIDEWALK BRACKET AND SIDEWALK NOT SHOWN FOR CLARITY.
5. THE HANDLING, ERECTION, AND ROLL-IN INSTALLATION SEQUENCE SHOWN IN A SUGGESTED SEQUENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HANDLING, ERECTION AND FINAL PLACEMENT OF THE PRECAST PANELS IN ITS ENTIRETY. THE CONTRACTOR'S BID SHALL BE BASED SOLELY UPON THE ERECTION SEQUENCE PROPOSED BY THE CONTRACTOR. ERECTION PLANS AND CALCULATIONS TO BE SUBMITTED TO DCS FOR APPROVAL.
6. FOR DETAIL 1, SEE DWG. NO. ST-256B.



PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C.
 ON: 03/29/10



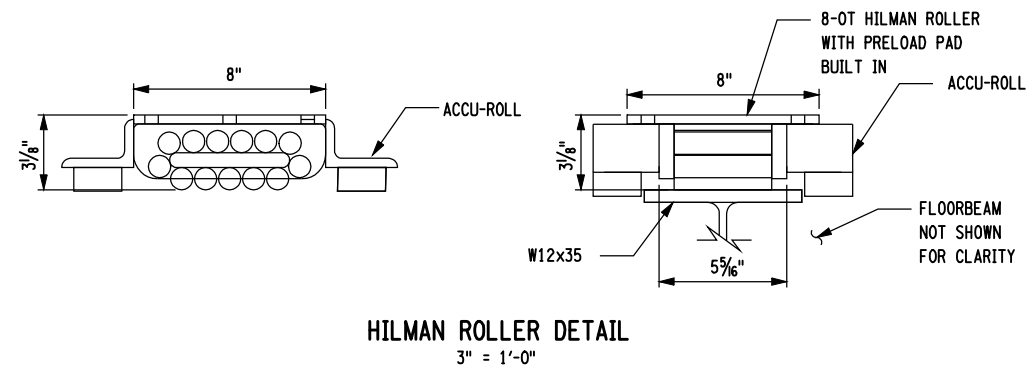
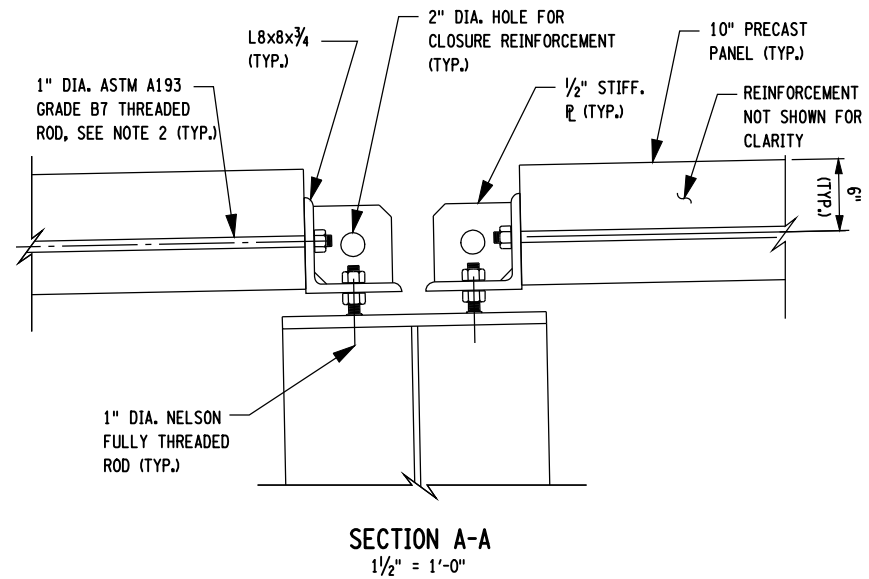
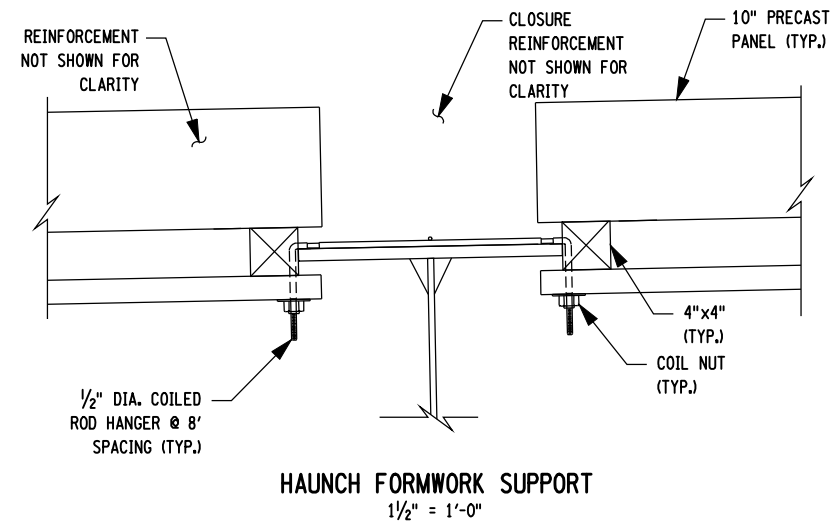
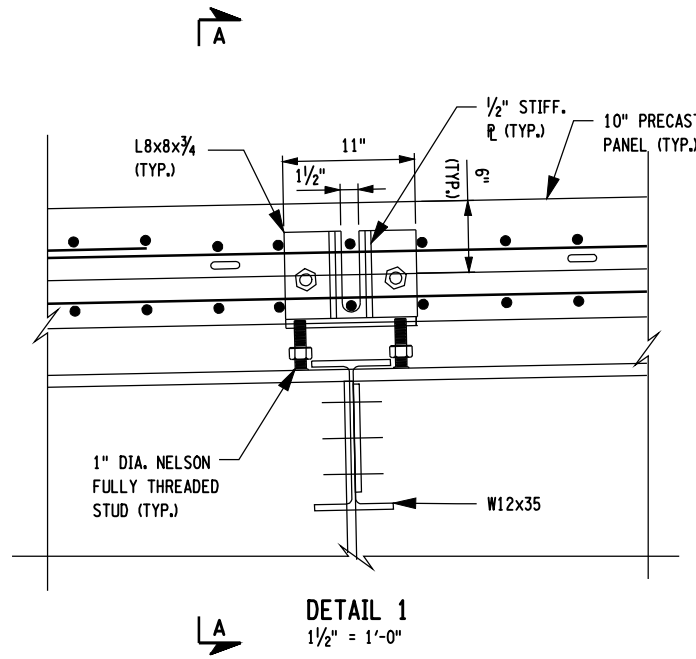
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PIN 1805.81
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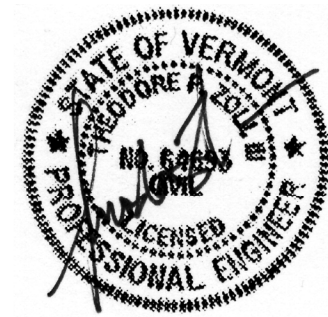
BRIDGES BIN 5521180	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D261458
SUGGESTED ARCH SPAN PRECAST PANEL ERECTION DETAILS - 1		DRAWING NO. ST-256A SHEET NO. 382A OF 432A	



NOTES:

- FOR LOCATION OF DETAIL 1, SEE DWG. NO. ST-256A.
- ASTM A193 GRADE B7 THREADED BAR OR APPROVED EQUAL WITH A YIELD STRENGTH OF 105 KSI AND AN ULTIMATE STRENGTH OF 120 KSI.
- PRIOR TO LIFTING OR HANDLING FROM BRACKETS, THREADED BARS TO BE TENSIONED TO A MINIMUM OF 25 KIPS USING A CALIBRATED TORQUE WRENCH.
- TORQUE TO ACHIEVE THIS LEVEL OF PRETENSIONING SHALL BE BASED UPON THE MANUFACTURER'S RECOMMENDATIONS.
- SUPPORT BRACKETS MAY BE USED FOR LIFTING AND HANDLING OF PRECAST PANELS. HOWEVER SPREADER BEAMS ARE REQUIRED TO ENSURE LOADS ARE VERTICAL AND EQUALIZED TO ALL FOUR SUPPORTS.
- IN ORDER TO REMOVE HILMAN ROLLERS, PANELS ARE TO BE JACKED AT THE SUPPORT BRACKETS. TO ACHIEVE PROFILE GRADE, THE BRACKETS ARE TO BE SUPPORTED ON THE NELSON STUDS. GIVEN THE SMALL CLEARANCES BETWEEN BRACKET AND FLOORBEAM TOP FLANGE, TOE JACKS OR A SIMILAR LOW PROFILE ALTERNATIVE IS REQUIRED.

PREPARED BY: HNTB NY ENGINEERING & ARCHITECTURE, P.C. ON: 03/29/10
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VT ROUTE 17	NYS ROUTE 185	BIN 5521180		SUGGESTED ARCH SPAN PRECAST PANEL ERECTION DETAILS - 2	D261458
LAKE CHAMPLAIN BRIDGE REPLACEMENT OVER LAKE CHAMPLAIN	PS&E DATE MAR. 1, 2010 AMENDMENT NO. 1				DRAWING NO. ST-256B SHEET NO. 383A OF 432A
COUNTY: ESSEX COUNTY, NY / ADDISON COUNTY, VT	DATE MAR 29, 2010				

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