

May 17, 2007

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF TRANSPORTATION
RHODE ISLAND CONTRACT NO.2007-CB-030
FEDERAL-AID PROJECT NO. FAP Nos: BHO-0428(001)

Wanskuck & Hawkins Street Bridges, 428 & 429 - Repairs

Branch Avenue at Route 146 and Route 146 at Hawkins Street
CITY/TOWN OF Providence
COUNTY OF PROVIDENCE

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 1 Prospective bidders and all concerned are hereby notified of the following changes in the Plans, Specifications, Proposal and Distribution of Quantities for this contract. These changes shall be incorporated in the Plans, Specifications, Proposal and Distribution of Quantities, and shall become an integral part of the Contract Documents.

A. Contract Documents

1. General Provisions/Contract Specific

a. Index Page CS-i

Delete CS-i in its entirety and insert revised Page CS-i(R-1) attached to this Addendum No. 1. Paragraph 18 HIGHWAY TRAFFIC MONITORING STATION INSTALLATION has been added.

b. Page CS-7

Delete Page CS-7 in its entirety and insert revised Page CS-7(R-1) attached to this Addendum No. 1. Paragraph 4 SPECIALTY ITEMS has been revised.

c. CS-14

Delete Page CS-14 in its entirety and insert revised Page CS-14(R-1) attached to this Addendum No. 1. Paragraph 18 HIGHWAY TRAFFIC MONITORING STATION INSTALLATION has been added.

d. Pages CS-15 through CS-18

Insert new Pages CS-15 through CS-18 attached to this Addendum No. 1. Sketches and Details pertaining to Piezo Sensor Removal and installation of a Radar Vehicle Detector have been added.

2. Specifications - Job Specific

a. Index Page JS-i

Delete Index Page JS-i in its entirety and replace with JS-i(R-1) attached to this Addendum

- b. Index Page JS-ii
Delete Index Page JS-ii in its entirety and replace with JS-ii(R-1) attached to this Addendum No. 1. Code T03.9901 TRAFFIC SIGNAL WOOD SPAN POLE, 35 FEET and Code T06.9901 RADAR VEHICLE DETECTOR have added added.
- c. Page JS-23A
Insert new Page JS-23A attached to this Addendum No. 1. Job Specific Code 201.9901 REMOVE AND DISPOSE PIEZO SENSORS has been added.
- d. Pages JS-50A through JS-50E
Insert new Pages JS-50A through JS-50E attached to this Addendum No. 1. Job Specific Code T03.9901 TRAFFIC SIGNAL WOOD SPAN POLE, 35 FEET and Job Specific Code T06.9901 RADAR VEHICLE DETECTOR have been added.

B. Distribution of Quantities

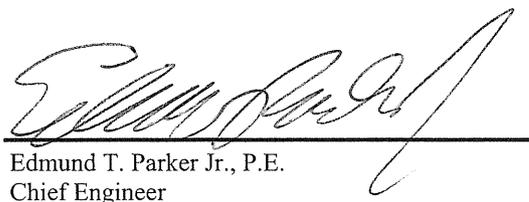
- 1. Index Page 1
Delete Index Page 1 in its entirety and insert revised Index Page 1(R-1) attached to this Addendum No. 1. Item Code No. 603.1000 has been deleted.
- 2. Index Page 2
Delete Index Page 2 in its entirety and insert revised Index Page 2(R-1) attached to this Addendum No. 1.
- 3. Index Page 3
Delete Index Page 3 in its entirety and insert revised Index Page 3(R-1) attached to this Addendum No. 1. Item Code Nos. 201.9901; 202.0700; 601.0200; 906.0602; 924.0113; L01.0104; L02.0101; T03.9901; T06.2020; T06.5020; T06.6020; and T06.9901 have been added.
- 4. Page 1 and 1a
Delete Page 1 in its entirety and insert revised Page 1(R-1) and new Page 1a attached to this Addendum No. 1. Item Code No. 201.0409 has been revised.
- 5. Page 2 and 2a
Delete Page 2 in its entirety and insert revised Page 2(R-1) and new Page 2a attached to this Addendum No. 1. Item Code Nos. 201.0428 and 202.0100 have been revised.
- 6. Page 6 and 6a
Delete Page 6 in its entirety and insert revised Page 6(R-1) and new Page 6a attached to this Addendum No. 1. Item Code No. 603.1000 has been deleted. Item Code No. 702.0513 has been revised.
- 7. Page 8
Delete Page 8 in its entirety and insert revised Page 8(R-1) attached to this Addendum No. 1. Item Code No. 707.2000 has been revised.
- 8. Page 18
Delete Page 18 in its entirety and insert revised Page 18(R-1) attached to this Addendum No. 1. Item Code No. 922.0100 has been revised.

9. Page 19
Delete Page 19 in its entirety and insert revised Page 19(R-1) attached to this Addendum No. 1. Item Code No. 922.0100 has been revised.
10. Page 22 and 22a
Delete Page 22 in its entirety and insert revised Page 22(R-1) and new Page 22a attached to this Addendum No. 1. Item Code No. 932.0200 has been revised.
11. Page 24 and 24a
Delete Page 24 in its entirety and insert revised Page 24(R-1) and new Page 24a attached to this Addendum No. 1. Item Code No. T05.0400 has been revised.
12. Page 30
Delete Page 30 in its entirety and insert revised Page 30(R-1) attached to this Addendum No. 1. Item Code No. 201.9901 has been added.
13. Page 31
Insert new Page 31 attached to this Addendum No. 1. Item Code Nos. 202.0700; 601.0200; 906.0602; 924.0113; L01.0104; and L02.0101 have been added.
14. Page 32
Insert new Page 32 attached to this Addendum No. 1. Item Code Nos. T03.9901; T06.2020; T06.5020; T06.6020; and T06.9901 have been added.

C. Drawings/Plans - Change/Addition

1. Sheet No. 9 Maintenance and Protection of Traffic Plan No. 4
Delete Sheet No. 9 in its entirety and insert Revised Sheet No. 9(R-1) attached to this Addendum No. 1. Revisions have been made to the Maintenance and Protection of Traffic Plans and Notes. The Short-Term Traffic Control Plan for Hawkins Street has been removed from this sheet.
2. Sheet No. 11 Maintenance and Protection of Traffic Plan No. 6
Delete Sheet No. 11 in its entirety and insert Revised Sheet No. 11(R-1) attached to this Addendum No. 1. The Short-Term Traffic Control Plan for Hawkins Street has been revised and added to this sheet. The RECONSTRUCT CATCH BASIN - CORBEL CONES detail have been revised.
3. Sheet No. 12 Bridge No. 428 General Plan
Revise Sheet No. 12 as shown on Sketch Nos. 1 and 2 attached to this Addendum No. 1. Location of Verizon Communications' Duct has been revised.
4. Sheet No. 18 Bridge No. 428 Bridge General Plan
Revise Sheet No. 18 as shown on Sketch No. 3 attached to this Addendum No. 1. Location of Verizon Communications' Duct has been revised.
5. Sheet No. 26 Bridge No. 428 Bridge Jacking and Shoring Details 1
Revise Sheet No. 26 as shown on Sketch Nos. 4 and 5 attached to this Addendum No. 1. Jacking pedestal connection has been revised.

6. Sheet No. 27 Bridge No. 428 Bridge Jacking and Shoring Details 2
Revise Sheet No. 27 as shown on Sketch Nos. 6 and 7 attached to this Addendum No. 1. Jacking pedestal connection has been revised.
7. Sheet No. 28 Bridge No. 428 Bridge Jacking and Shoring Details 3
Revise Sheet No. 28 as shown on Sketch Nos. 8, 9, and 10 attached to this Addendum No. 1. Location and details of Verizon Communications' Duct have been revised. Jacking pedestal has been revised.
8. Sheet No. 30 Bridge No. 428 South Pier Plan and Elevation
Revise Sheet No. 30 as shown on Sketch Nos. 11 and 12 attached to this Addendum No. 1. Location and details of Verizon Communications' Duct have been revised.
9. Sheet No. 41 Bridge No. 429 Bridge Jacking and Shoring Details 2
Revise Sheet No. 41 as shown on Sketch Nos. 13, 14, and 15 attached to this Addendum No. 1. Base plate weld size has been revised.
10. Sheet No. 42 Bridge No. 429 Bridge Jacking and Shoring Details 3
Delete Sheet No. 42 in its entirety and insert Revised Sheet No. 42(R-1) attached to this Addendum No. 1. Jacking pedestal connection has been revised.



Edmund T. Parker Jr., P.E.
Chief Engineer

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GENERAL PROVISIONS/CONTRACT SPECIFIC

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4. SPECIALTY ITEMS

The following proposal items are hereby designated as "Specialty Items":

Sliding Bearings Standard Expansion
Pot Bearings
Cleaning and Painting of Structural Steel
Containment, Collection, Storage, and Disposal of Debris and Spent Materials
Installation of Electric Facilities and Underpass Lighting
Pavement Markings (Temporary & Permanent)
Radar Vehicle Detector

5. SEQUENCE OF CONSTRUCTION

The Contractor shall perform the proposed work during the day and/or night as specified in this General Provision Subsections 5a and 5b.

a. General

The level of detail and schedule submission requirements will be based on the Schedule Level A.

The Contractor shall coordinate his work to ensure that all utility relocations may proceed without delay. The Contractor shall, immediately upon commencing work at the site, perform all work necessary for the preparation of utility company involvement prior to beginning any other work on the project. Such work will include, but not be limited to, site preparation, tree trimming, earthwork, removals and relocations or disposals, traffic control, survey, etc., which involve the relocation of overhead wires or underground utilities.

The Contractor shall coordinate with the City's Director of Public Works and all utility companies to ensure that any scheduled utility work be completed prior to the Contractor commencing his work within this Contract.

All drainage work, including new construction and modifications, shall be completed and accepted by the Engineer prior to commencing pavement removal. Locations of surface features of utilities shown on the plans are approximate. The Contractor shall check and verify the exact location of all existing utilities, both underground and overhead with Dig Safe. Any damage to existing utilities shall be the Contractor's responsibility.

15. ORIGINAL BRIDGE CONSTRUCTION DRAWINGS

Available drawings from the original bridge construction (RIC No. 5525) and from bridge improvements (RIC Nos. 6760 & 8859) of the Wanskuck Bridge No. 428 and the Hawkins Street Bridge No. 429 have been included for the Contractor's reference within Appendix B of these Contract Documents. These drawings are provided for informational purposes only and have not been field verified. The Contractor shall be responsible for verifying all existing conditions. These plans, supplemented by field review, were used to generate the base mapping for this contract.

16. TEST PITS

A quantity for test pits has been included in this contract. Test pits may be required to locate underground utilities and identify utility conflicts with the proposed design. Should the Contractor find that a conflict exists, he should notify the Engineer.

17. CONTRACTUAL MILESTONE COMPLETION DATES

October 16, 2008	-	Phase 1 Completion
September 9, 2009	-	Phase 2 Completion
September 18, 2009	-	Substantial Completion

18. HIGHWAY TRAFFIC MONITORING STATION INSTALLATION

All conduit, electrical service, traffic cabinets and related materials specified in this contract shall be in place prior to the installation of the radar vehicle detectors and all related wiring. The operational setup will include the installation and setup of the detectors, as well as the calibration of the system. The Contractor shall have a representative from the radar detector vendor present for one week or as long as necessary to supervise the installation of the system and in assisting with making the systems fully operational. The Contractor shall be responsible for making the system fully operational prior to final acceptance of the system. The Contractor is responsible for coordinating installation and calibration with the radar detector vendor. The Contractor shall provide all electronics and software as part of this Contract. These items shall be obtained from the radar detector vendor as specified in the Contract.

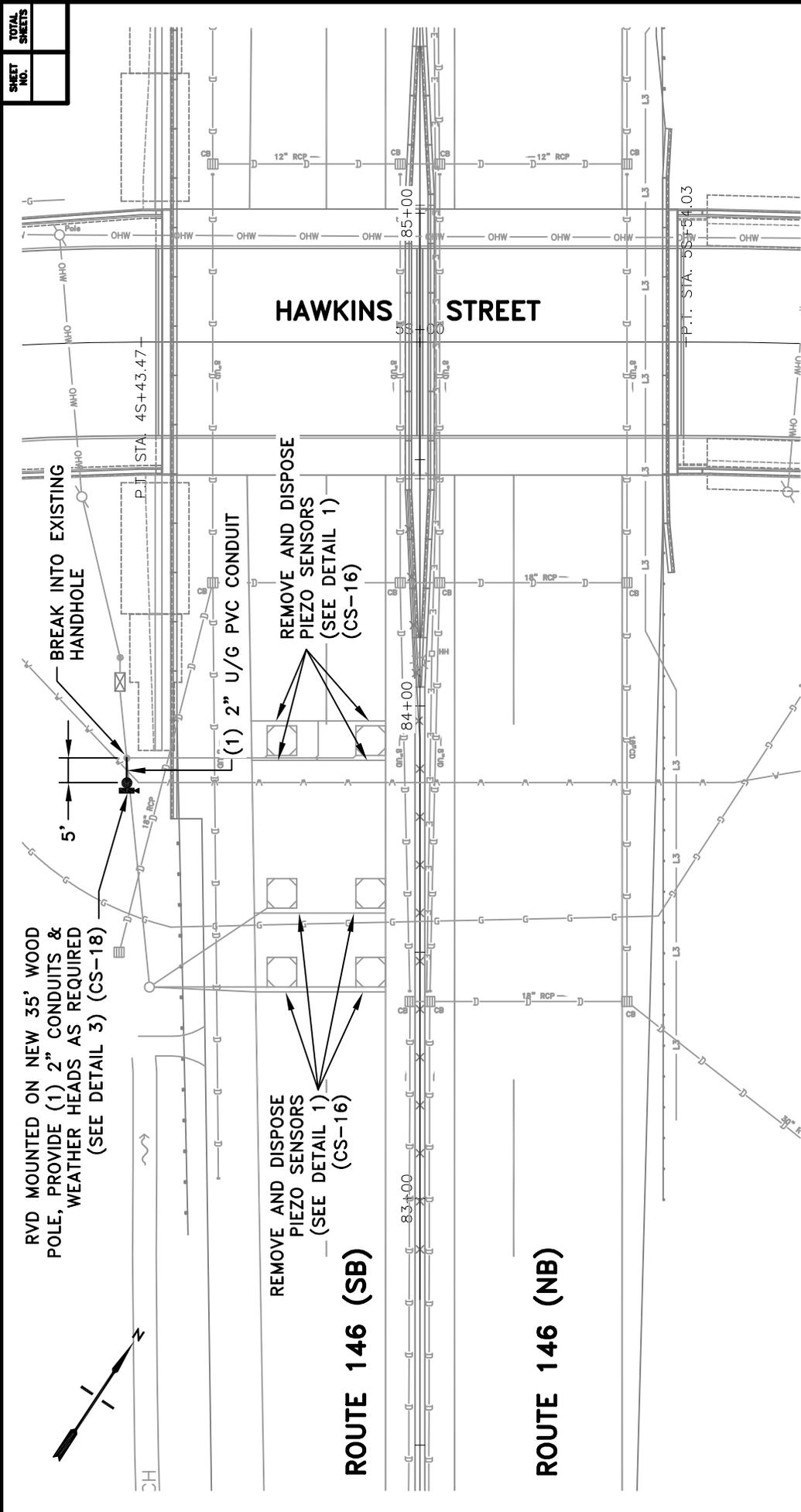
All installation and monthly service charges for electric and telephone services shall be borne by the Contractor until the project has been accepted by RIDOT.

The Contractor shall install a polyethylene rope pull wire in all conduits installed under this contract. Cost of the pull wire shall be considered incidental to the price of the conduit.

All PVC conduit is to be gray, Schedule 80 PVC Conduit.

The Contractor is to run #6 bare ground wire through all PVC conduits. Cost of the wire shall be considered incidental to the price of the conduit.

SHEET NO.	TOTAL SHEETS



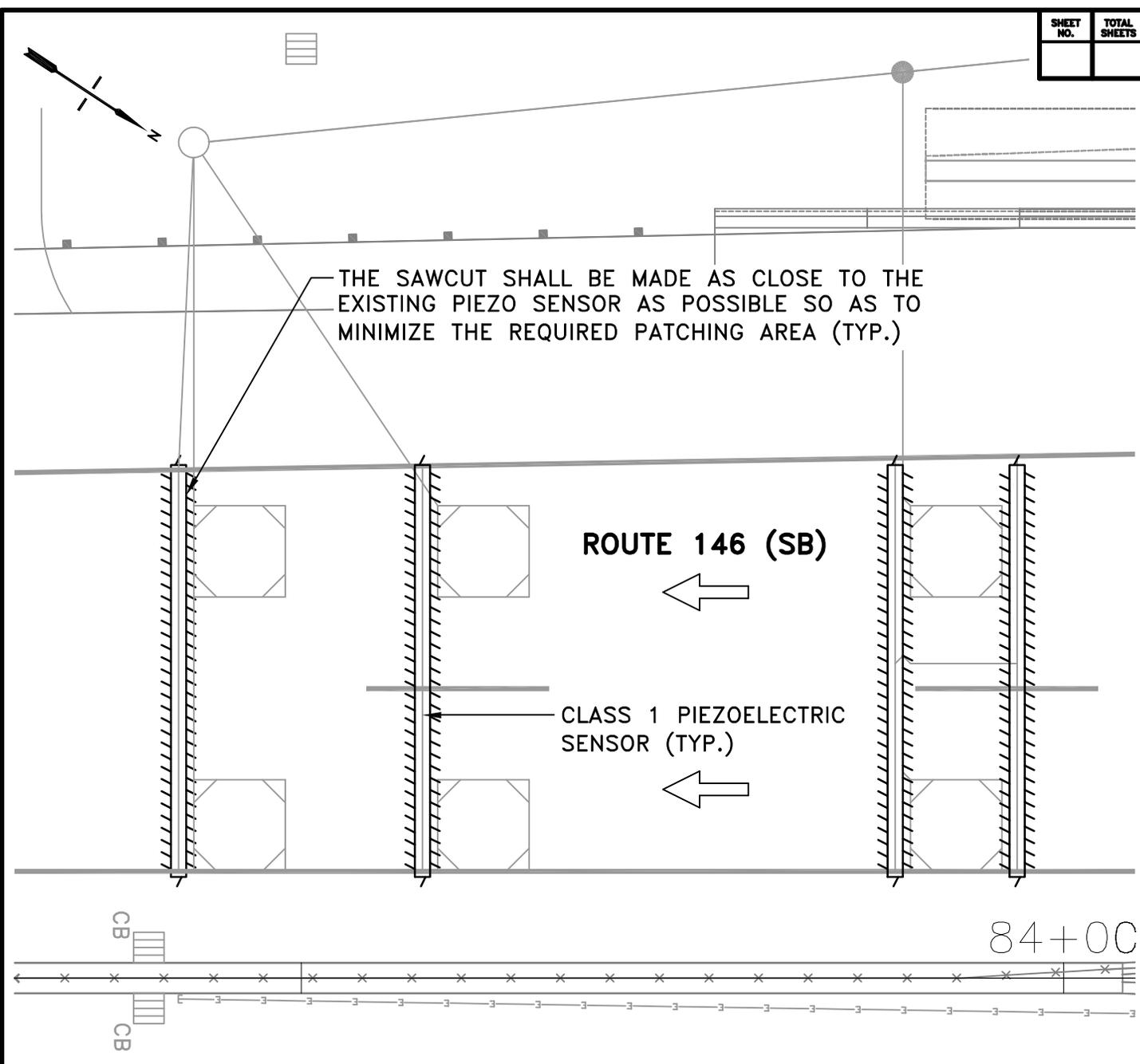
NOT TO SCALE

Rhode Island Department of Transportation
 Interim Repairs to Bridge Nos. 428 and 429
 Providence, Rhode Island
Piezo Sensor Removal Plan

PARE CORPORATION
 ENGINEERS - SCIENTISTS - PLANNERS
 8 BLACKSTONE VALLEY PLACE
 LINCOLN, RI 02865
 401-334-4100



SHEET NO.	TOTAL SHEETS



NOTE:
 FOLLOWING REMOVAL OF PIEZO SENSORS, THE TRENCH SHALL FIRST BE BRUSH COATED WITH BITUMINOUS MATERIAL ON ALL CONTACT SURFACES, FILLED WITH CLASS 1-2 BITUMINOUS MIXTURE AND COMPACTED, ALL IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 401.03.10; COMPACTION, OF THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION.

NOT TO SCALE

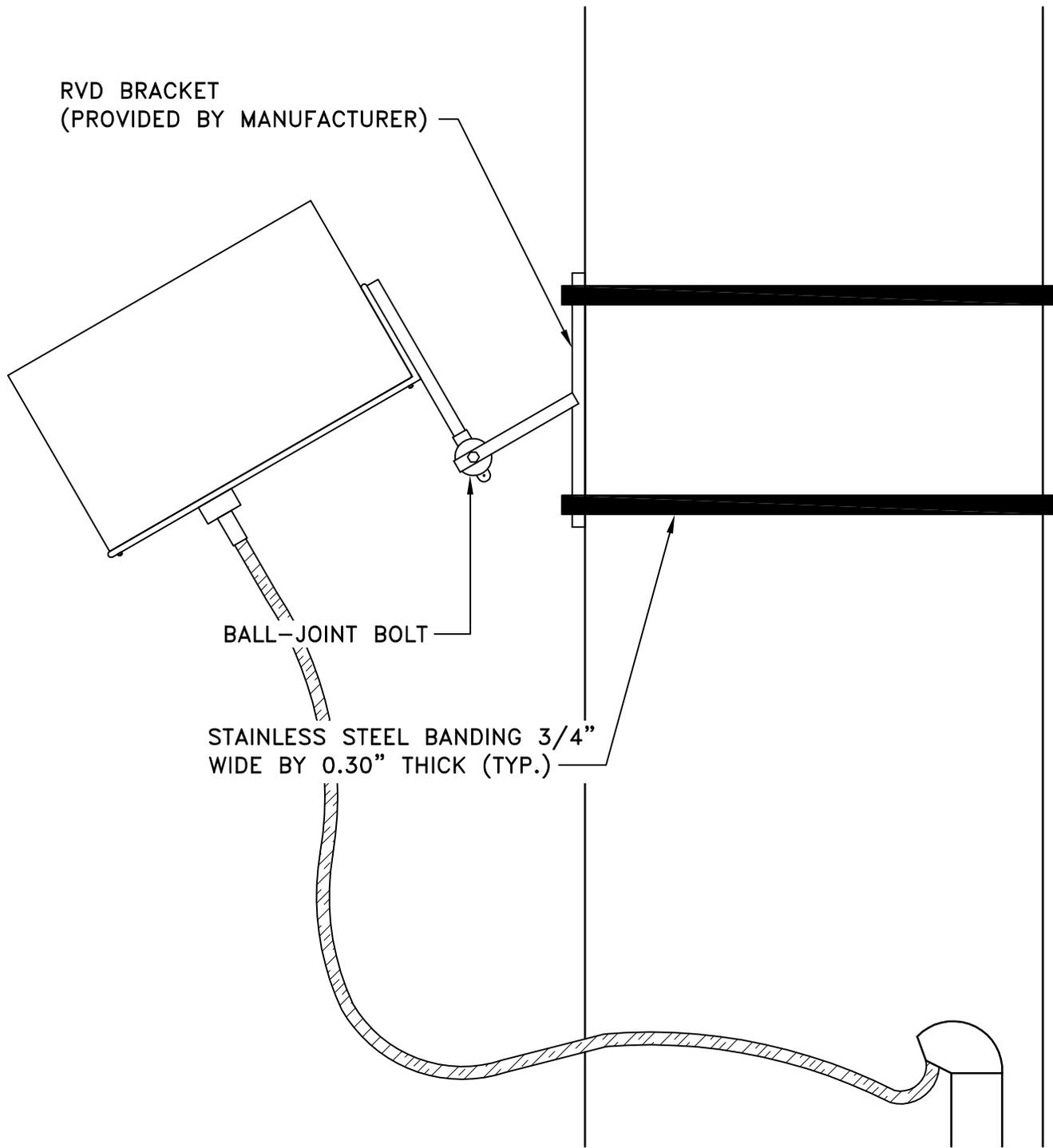


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 401-334-4100

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 Providence, Rhode Island

Detail 1
 Piezo Sensor Removal Detail

SHEET NO.	TOTAL SHEETS



NOT TO SCALE

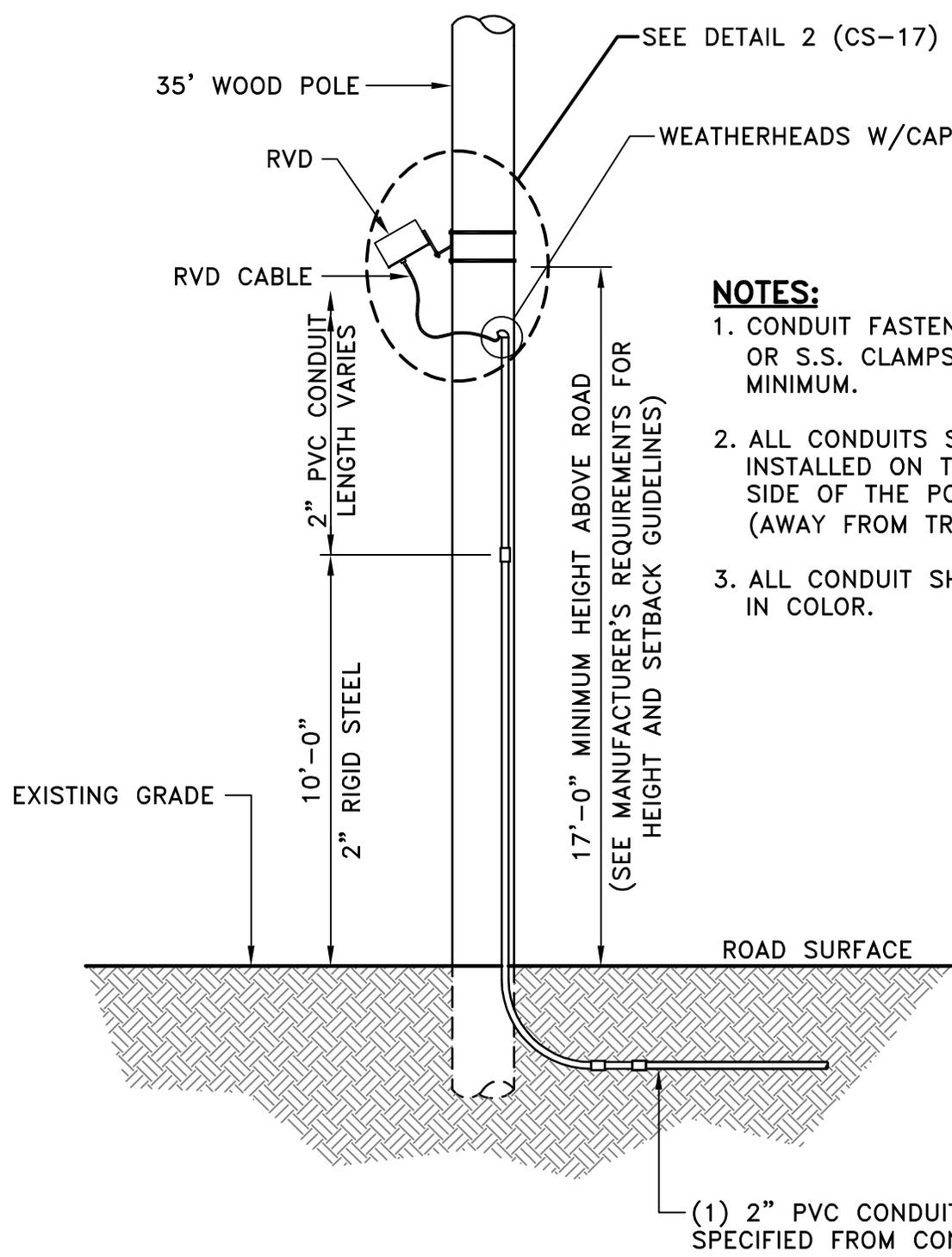


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 Interm Repairs to Bridge Nos. 428 and 429
 Providence, Rhode Island

Detail 2

SHEET NO.	TOTAL SHEETS



NOTES:

1. CONDUIT FASTENED W/GALV. OR S.S. CLAMPS 5'-0" O.C. MINIMUM.
2. ALL CONDUITS SHALL BE INSTALLED ON THE BACK SIDE OF THE POLE (AWAY FROM TRAFFIC).
3. ALL CONDUIT SHALL BE GRAY IN COLOR.

NOT TO SCALE



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Interm Repairs to Bridge Nos. 428 and 429
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T03.9901	Traffic Signal Wood Span Pole, 35 Feet	JS-50A
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JOB SPECIFIC

201.9901 REMOVE AND DISPOSE PIEZO SENSORS

DESCRIPTION: This item of work shall consist of the removal and disposal of Piezo Sensors and the patching of the Piezo Sensor trench at locations indicated in the CS Pages of the Contract Documents.

MATERIALS: The material used to fill the trenches following the removal of the Piezo Sensors shall be Bituminous Concrete, Class I-2.

CONSTRUCTION METHODS: A sawcut shall be made around the perimeter of the existing Piezo Sensor as close to the sensor as possible. This sawcut shall be made to minimize the patching area required.

Following removal of the Piezo Sensors, the trench shall first be brush coated with bituminous material on all contact surfaces, then filled with Class I-2 bituminous material, and then compacted, all in accordance with the applicable provisions of Section 401.03.10; Compaction, of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition.

METHOD OF MEASUREMENT: This item will be measured for payment at the unit price per "EACH" Piezo Sensor removed and disposed. This item will include the sawcut and the bituminous material required to fill the trench following removal.

BASIS OF PAYMENT: This item will be paid for at the contract unit price bid per "EACH" Piezo Sensor removed and disposed, in accordance with the applicable sections of the Standard Specifications.

JS-23A

JOB SPECIFIC

T03.9901 TRAFFIC SIGNAL WOOD SPAN POLE, 35 FEET

DESCRIPTION: This item of work shall consist of furnishing and installing Class 3 wood span poles at locations indicated in the CS Pages of the Contract Documents.

MATERIALS: The materials shall meet the requirements of Section T.11 "Traffic Signal Standards and Posts", Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction, 2004.

CONSTRUCTION METHODS: Except where specifically shown on the plans, the pole shall be set on the side of the controller cabinet closest to oncoming traffic. The Contractor shall be responsible for any additional expenses incurred from setting the pole on the wrong side of the cabinet.

35-foot wood pole shall have a buried depth of 6 feet.

The provisions of Section T.11.03.2 of the RIDOT Standard Specifications shall apply.

METHOD OF MEASUREMENT: This item will be measured for payment at the unit price "EACH" complete in-place and accepted.

BASIS OF PAYMENT: This item will be paid for at the contract unit price bid for "EACH" complete in place and accepted in accordance with Section T.11 of the Standard Specifications.

JS-50A

JOB SPECIFIC

T06.9901 RADAR VEHICLE DETECTOR

DESCRIPTION:

- The purpose of this specification is to describe the minimum requirements of a Radar Vehicle Detector (RVD).
- The RVD shall be easy to install and remove, and shall be fully programmable to support a variety of applications.
- All work shall be in accordance with the sketches in the CS Pages of the Contract Documents and this Special Provision.

MATERIALS: All equipment and component parts furnished shall be new, be of the latest design and manufacture, and be in an operable condition at the time of delivery and installation. All parts shall be of high quality workmanship, and no part or attachment shall be substituted or applied contrary to the manufacturer's recommendations and standard practices.

The design shall be such as to prevent reversed assembly or improper installation of connectors, fasteners, etc. Each item of equipment shall be designed to protect personnel from exposure to high voltage during equipment operation, adjustments, and maintenance.

The designed Mean Time Between Failures (MTBF) of the RVD unit, operating continuously in their application shall be 10 years or longer.

MEASUREMENT ACCURACY: The detector shall identify vehicle presence in each detection zone with a 95% or greater accuracy, independent of the vehicle's direction of travel through the detection zone. The maximum permissible error shall be 5% in the detection of the direction and magnitude of radial speed and 10% in the case of transverse speed.

VENDOR INFORMATION: The Radar Vehicle Detector shall be purchased from either of the following vendors:

Electronic Integrated Systems, Inc. (EIS)
150 Bridgeland Avenue #204
Toronto, Ontario M6A1Z5
(416) 785-9248

JS-50B

Wavetronix, LLC
380 South Technology Court
Lindon, UT 84042
(801) 764-0277

ENVIRONMENTAL CONDITIONS: Except as stated otherwise herein, the equipment shall meet all its specified requirements during and after subjecting to any combination of the following:

- Ambient temperature range of -37°C to $+74^{\circ}\text{C}$.
- Relative humidity from 5 to 95 percent, non-condensing
- Power surge of 6 KV – 10,000 amps.

The design shall be inherently temperature compensated to prevent abnormal operation. The circuit design shall include such compensation as is necessary to overcome adverse effects due to temperature in the specified environmental range.

Except as may be otherwise stated herein for a particular item, no item, component, or subassembly shall emit a noise level exceeding the peak level of 55 dBA when measured at a distance of one meter away from its surface.

The detector shall include surge protection in accordance with IEEE Standard C62.41 – 1980 Category C.

The microwave radar detector shall be resistant to vibration in accordance with IEC 68-2-30 (test Fc), NEMA TS-1 (Section 2.1.12), or approved equivalent. The microwave detector shall be resistant to shock in accordance with IEC 68-2-27 (test Ea), NEMA TS-1 (Section 2.1.13), or approved equivalent.

FUNCTIONAL CHARACTERISTICS:

Capabilities: The RVD shall be a true presence detector, which can provide presence, volume, lane occupancy and speed information on up to eight discreet detection zones. This information shall be available to existing controllers via contact closure pairs and to other systems via serial communications lines.

Transmission: Each microwave radar detector shall transmit on a frequency band of 10.525 GHZ +/-25 MHz or another approved spectral band. The detector shall comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules or the appropriate Spectrum Management Authority. The RVD shall not interfere with any known equipment. The transmitter power shall not exceed 10 milliwatts.

JS-50C

Area Coverage: The RVD's field of view shall cover an area defined by a beam of known shape and characteristics and its maximum detection range shall be as follows:

- Elevation Beam Width 80 degrees
- Azimuth Beam Width 15 degrees
- Range 10 to 200 feet

Detection Zones: The minimum number of detection zones defined shall be six (6). The range limits of each zone shall be user-defined in 7 ft. increments.

MECHANICAL: The microwave radar detector shall be enclosed in a rugged weatherproof box and sealed to protect the unit from wind up to 90 mph, dust and airborne particles, and exposure to moisture (NEMA type 3R enclosure). The total weight of the microwave radar detector assembly shall not exceed 5 pounds.

The mounting assembly shall have all painted steel, stainless steel, or aluminum construction, and shall support a load of 20 pounds. The mounting assembly shall incorporate a ball-joint, or other approved mechanism, that can be tilted in both axes, then locked into place, to provide the optimum area of coverage.

ELECTRICAL: The RVD unit shall be operable from either 12 – 24V AC/DC dissipating not more than 8W, or 95 – 135 VAC @ 60 Hz. Power supply shall be obtained from the power distribution assembly within the controller cabinet, or any convenient power source.

The interface consists of a single MS connector which provides power to the unit, output contact closure wire pairs for each of the required detection zones rated at 200V AC/DC 100 mA, and serial communication lines for programming, testing or modem interface at 9600 Baud rate. Data format of the serial port shall be standard binary NRZ 8 bits data, 1 stop bit, no parity.

A UV-resistant cable of multiple twisted pairs of stranded AWG #20 or #22 wires with a common shield rated at 300V with a temperature rating of 105 degrees C (Belden #9516 or approved equal) will provide connection between the RVD and the cabinet equipment.

The MS connector pins must be soldered to the cable conductors and assembled and tested prior to installation and pulling of cable on site.

The junction box or cabinet to house the RS-232 connector must be located within sight of the desired detection zones in order to initially set up the sensor or to alter the set-up at a later date.

JS-50D

CONSTRUCTION METHODS:

INSTALLATION

The RVD shall be mounted in either Side-fired or Forward-looking configuration. It shall be mounted on poles at the specified locations, using the supplied mounting brackets. The brackets shall be attached with approved 3/4-inch wide, .30-inch thick, stainless steel bands.

The Contractor shall install the detector unit at a height above the road surface as specified by the manufacturer's specifications.

The Contractor shall be responsible for the connection of the RVD to the existing control cabinet. To make this connection, the Contractor shall break into the existing handhole and connect the RVD to the RS-232 connector within the cabinet. The cost of the cable and the connection shall be incidental to the installation of the RVD.

The Contractor shall arrange to have a technician, qualified to work on the RVD employed by the manufacturer or his representative, present at the time the equipment is installed and at the turn-on. The Contractor may perform this task if certified by the manufacturer or manufacturer's representative, in installation and calibration of the RVD.

The RVD detection zones shall be set up using the provided software and a Notebook PC.

METHOD OF MEASUREMENT: "Radar Vehicle Detectors" will be measured by the number of such units installed in accordance with the plans and/or as directed by the Engineer.

BASIS OF PAYMENT: The accepted quantities of "Radar Vehicle Detectors" will be paid for at their respective contract unit price per each such unit as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, and equipment, including all RVD cable required to connect the RVD unit to the RS-232 connector within the cabinet, the mounting hardware and brackets for providing and installing said units and all other incidentals required to finish the work, complete and accepted by the Engineer.

JS-50E

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702.0543	GRANITE APRON STONE 38'' STANDARD 7.3.8	6
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704.0100	RECONSTRUCT CATCH BASIN/CORBEL CONES	7
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803.9902	PARTIAL REMOVAL AND DISPOSAL OF EXISTING CONCRETE SUBSTRUCTURE BRIDGE NO. 429	10
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001	201.0403	REMOVE AND DISPOSE SIDEWALKS	SY			
		BRIDGE 428				
		NORTH PIER		153.00	0014	01
		SOUTH PIER		173.00	0014	01
				Item 201.0403 Total:		326.00
002	201.0407	REMOVE AND DISPOSE PAVEMENT AND RIGID BASE	SY			
		BRIDGE 428				
		L06+28 - L07+76		99.00	0014	01
		R06+70 - R08+15		97.00	0014	01
				Item 201.0407 Total:		196.00
003	201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	SY			
		BRIDGE 429				
		L 84+25		7.00	0014	01
		L 84+44 - L 85+14		47.00	0014	01
		L 85+10		7.00	0014	01
		M&P 3 TEMPORARY PAVEMENT		23.00	0014	01
		R 83+40		7.00	0014	01
		R 84+25		7.00	0014	01
		R 84+44 - R 85+14		47.00	0014	01
		R 85+10		7.00	0014	01
				Item 201.0409 Total:		152.00
004	201.0410	REMOVE AND DISPOSE CATCH BASINS	EACH			
		BRIDGE 428				
		L 06+92		1.00	0014	01
		R 07+04		1.00	0014	01
				Item 201.0410 Total:		2.00
005	201.0416	REMOVE AND DISPOSE LOT CURB (ALL	LF			

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005	201.0416	Cont. SIZES)				

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005	201.0416 Cont.	BRIDGE 428				
		NORTH ABUTMENT		130.00	0014	01
		SOUTH ABUTMENT		130.00	0014	01
Item 201.0416 Total:				260.00		
006	201.0420	REMOVE AND DISPOSE CONCRETE SLAB	SY			
		BRIDGE 428				
		NORTH SLOPE PAVING (2 LOC)		158.00	0014	01
		SOUTH SLOPE PAVING (2 LOC)		158.00	0014	01
		BRIDGE 429				
		MEDIAN SLAB		25.00	0014	01
Item 201.0420 Total:				341.00		
007	201.0428	REMOVE AND DISPOSE FRAME AND GRATE	EACH			
		OR FRAME AND COVER				
		BRIDGE 429				
		L 84+25		1.00	0014	01
		L 85+10		1.00	0014	01
		R 83+40		1.00	0014	01
		R 84+10		1.00	0014	01
		R 84+25		1.00	0014	01
Item 201.0428 Total:				5.00		
008	201.0430	REMOVE AND DISPOSE CONCRETE MEDIAN	LF			
		BARRIER				
		BRIDGE 429				
		84+44 - 85+14		140.00	0014	01
		85+14 - 85+24		20.00	0014	01
Item 201.0430 Total:				160.00		
009	202.0100	EARTH EXCAVATION	CY			
		BRIDGE 428				
		L 6+28 - L 7+76		145.00	0014	01

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009	202.0100 Cont.	R 6+70 - R 8+15		142.00	0014	01
		BRIDGE 429				
		M & P 3 TEMPORARY PAVEMENT		67.00	0014	01
Item 202.0100 Total:				354.00		

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
021	501.0103 Cont.	L 06+28 - L 07+76		99.00	0014	01
		R 06+70 - R 08+15		97.00	0014	01
Item 501.0103 Total:				196.00		
022	601.0300	CLASS A PORTLAND CEMENT CONCRETE	CY			
		BRIDGE 428				
		L 06+28 - L 07+76 (CURBLOCK)		6.00	0014	01
		R 06+70 - R 08+15 (CURBLOCK)		6.00	0014	01
Item 601.0300 Total:				12.00		
023	603.1000	CONTROLLED LOW STRENGTH MATERIAL	CY			
		BRIDGE 429				
		L 84+25		4.00	0014	01
		L 85+10		4.00	0014	01
		R 83+40		4.00	0014	01
		R 84+25		4.00	0014	01
		R 85+10		4.00	0014	01
Item 603.1000 Total:				**DELETED**		
024	702.0513	FRAME AND GRATE STANDARD 6.3.1	EACH			
		BRIDGE 429				
		L 84+10		1.00	0014	01
		L 84+25		1.00	0014	01
		R 83+40		1.00	0014	01
		R 84+25		1.00	0014	01
		R 85+10		1.00	0014	01
Item 702.0513 Total:				5.00		
025	702.0517	FRAME AND GRATE, STANDARD 6.3.2	EACH			
		BRIDGE 428				
		L 06+92		1.00	0014	01
		R 07+04		1.00	0014	01
Item 702.0517 Total:				2.00		

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026	702.0543	GRANITE APRON STONE 38'' STANDARD	EACH			

7.3.8

BRIDGE 428

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
030	707.2000	ADJUST FRAME AND GRATE TO GRADE	EACH			
		BRIDGE 428				
		L 04+17		2.00	0014	01
		L 06+19		2.00	0014	01
		L 06+92		2.00	0014	01
		R 04+22		2.00	0014	01
		R 07+03		2.00	0014	01
		R 08+23		2.00	0014	01
		R 10+46		2.00	0014	01
		BRIDGE 429				
		L 84+25		1.00	0014	01
		L 85+10		1.00	0014	01
		R 83+40		1.00	0014	01
		R 84+25		1.00	0014	01
		R 85+10		1.00	0014	01
Item 707.2000 Total:				16.00		
031	708.9040	CLEANING AND FLUSHING PIPE ALL SIZES	LF			
		BRIDGE 428				
		L 06+20 - L 06+85		65.00	0014	01
		L 06+20 - R 06+45		61.00	0014	01
		L 06+85 - L 06+92		9.00	0014	01
		L 06+85 - L 07+90		105.00	0014	01
		L 06+85 - R 07+04		45.00	0014	01
		L 07+79 - L 07+90		26.00	0014	01
		L 07+90 - R 08+24		52.00	0014	01
		BRIDGE 429				
		L 84+26 - L 85+10		84.00	0014	01
		R 84+26 - R 85+10		84.00	0014	01
Item 708.9040 Total:				531.00		
032	708.9041	CLEANING CATCH BASINS ALL TYPES	EACH			

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074	916.0650 Cont.	BRIDGE 428				
		M & P 1 & 2		1.00	0014	01
Item 916.0650 Total:				1.00		
075	919.0101	TEST PITS	EACH			
		BRIDGE 428 & 429				
		PROJECT WIDE		12.00	0014	01
Item 919.0101 Total:				12.00		
076	922.0100	TEMPORARY CONSTRUCTION SIGNS	SF			
		STANDARD 29.1.0 AND 27.1.1				
		BRIDGE 428				
		E5-2		9.00	0014	01
		G20-2		18.00	0014	01
		R3-7L		19.00	0014	01
		R3-7R		25.00	0014	01
		R9-11L		2.00	0014	01
		R9-11R		2.00	0014	01
		R9-9		4.00	0014	01
		RI-27.1.1 (24X36)		12.00	0014	01
		RI-27.1.1 (48X72)		96.00	0014	01
		W1-4L		9.00	0014	01
		W1-4R		27.00	0014	01
		W20-1 (AHEAD)		36.00	0014	01
		W24-1AR		18.00	0014	01
		W4-7L		18.00	0014	01
		W5-1		18.00	0014	01
		BRIDGE 429				
		G20-2		32.00	0014	01
		R1-1		18.00	0014	01
		R4-9		20.00	0014	01
		RI-27.1.1 (24X36)		24.00	0014	01
		RI-27.1.1 (48X72)		96.00	0014	01

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076	922.0100	Cont.				
		W20-1 (1 MILE)		64.00	0014	01
		W20-1 (AHEAD)		45.00	0014	01
		W20-4		18.00	0014	01
		W20-5L		32.00	0014	01
		W20-5R		32.00	0014	01
		W20-7A		18.00	0014	01
		W21-5B		64.00	0014	01
		W24-1AR		64.00	0014	01
		W3-1		18.00	0014	01
		W4-2L		32.00	0014	01
		W4-2R		32.00	0014	01
Item 922.0100 Total:				922.00		
077	923.0105	DRUM BARRICADE STANDARD 26.2.0	BDAY			
		BRIDGE 428				
		M & P 1		2,800.00	0014	01
		M & P 2		32.00	0014	01
		BRIDGE 429				
		M & P 3		4,620.00	0014	01
		M & P 6		735.00	0014	01
Item 923.0105 Total:				8,187.00		
078	923.0120	PLASTIC PIPE BARRICADE STANDARD 26.3.0	EACH			
		BRIDGE 428				
		M & P 1		4.00	0014	01
		M & P 2		4.00	0014	01
Item 923.0120 Total:				8.00		
079	923.0200	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0	EACH			
		BRIDGE 428				
		BRIDGE 428		245.00	0014	01

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087	932.0200 Cont.	L 85+10		32.00	0014	01
		M&P 3 TEMPORARY PAVEMENT		202.00	0014	01
		R 83+40		32.00	0014	01
		R 84+25		32.00	0014	01
		R 84+44 - R 85+14		85.00	0014	01
		R 85+10		32.00	0014	01
Item 932.0200 Total:				532.00		
088	932.0210	FULL DEPTH SAWCUT OF BITUMINOUS PAVEMENT AND RIGID BASE	LF			
		BRIDGE 428				
		L 06+28 - L 07+76		160.00	0014	01
		R 06+70 - R 08+15		157.00	0014	01
Item 932.0210 Total:				317.00		
089	932.0230	FULL DEPTH SAWCUT OF PORTLAND CEMENT CONCRETE SIDEWALK/DRIVEWAY	LF			
		BRIDGE 428 SIDEWALK				
		L 06+28		10.00	0014	01
		L 07+76		10.00	0014	01
		NORHT PIER		130.00	0014	01
		NORTH ABUTMENT		130.00	0014	01
		R 06+70		10.00	0014	01
		R 08+15		10.00	0014	01
		SOUH PIER		130.00	0014	01
		SOUTH ABUTMENT		130.00	0014	01
		BRIDGE 429				
		MEDIAN SLAB NORTH EDGE		2.00	0014	01
		MEDIAN SLAB SOUTH EDGE		3.00	0014	01
Item 932.0230 Total:				565.00		
090	934.1000	SURVEY PARTY	PDAY			
		BRIDGE 428				

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090	934.1000 Cont.	PROJECT WIDE		70.00	0014	01

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095	T04.5302 Cont.	R 04+30		120.00	0014	01
		R 04+30 - R 04+42		140.00	0014	01
		R 04+42 - L 04+41		300.00	0014	01
		R 09+88		90.00	0014	01
		R 09+88 - R 09+90		135.00	0014	01
		R 09+90 - R 10+13		405.00	0014	01
		R 10+13 - R 10+88		475.00	0014	01
		R 10+88 - L 10+86		280.00	0014	01
Item T04.5302 Total:				2,415.00		
096	T05.0400	BREAK INTO EXISTING HANDHOLE	EACH			
		BRIDGE 428				
		L 04+41		1.00	0014	01
		L 09+72		1.00	0014	01
		L 10+86		1.00	0014	01
		R 03+51		1.00	0014	01
		R 04+30		1.00	0014	01
		R 04+42		1.00	0014	01
		R 06+72		1.00	0014	01
		R 08+43		1.00	0014	01
		R 09+90		1.00	0014	01
		R 10+13		1.00	0014	01
		R 10+88		1.00	0014	01
		BRIDGE 429				
		L 83+89		1.00	0014	01
Item T05.0400 Total:				12.00		
097	T06.5430	3 INCH SCHEDULE 80 POLYVINYL	LF			
		CHLORIDE PLASTIC CONDUIT - UNDER				
		EXISTING PAVEMENT				
		BRIDGE 428				
		BRIDGE 428		200.00	0014	01
Item T06.5430 Total:				200.00		

Distribution of Quantities

Project Name - Wanskuck & Hawkins Street Bridges, 428 & 429 - Repairs

Estimate Name - Addendum to PS&E

R.I. Contract No. - 2007-CB-030

FAP Nos: BHO-0428(001)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
S098	T08.9901	WANSKUCK BRIDGE NO. 428 UNDERPASS	LS			

Distribution of Quantities

Project Name - Wanskuck & Hawkins Street Bridges, 428 & 429 - Repairs

Estimate Name - Addendum to PS&E

R.I. Contract No. - 2007-CB-030

FAP Nos: BHO-0428(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S114	T20.9902	YIELD LINE	SF			
		BRIDGE 428				
		L 03+66 - L 03+92		54.00	0014	01
				Item T20.9902 Total:		54.00
S115	T20.9903	12 INCH YELLOW FAST DRYING WATERBORNE PAVEMENT MARKING PAINT	LF			
		BRIDGE 428				
		L 04+47 - L 06+25		100.00	0014	01
		L 06+97 - L 07+30		30.00	0014	01
		L 08+36 - L 10+04		100.00	0014	01
		R 07+11 - R 07+36		30.00	0014	01
				Item T20.9903 Total:		260.00
S116	T20.9904	TEMPORARY PAVEMENT MARKING (TAPE) BLACK - 6 INCH	LF			
		BRIDGE 429				
		L 79+27 - L 90+80		2,310.00	0014	01
		L 79+27 - L 92+95		1,383.00	0014	01
		L 90+11 - L 92+90		409.00	0014	01
		R 78+77 - R 86+33		756.00	0014	01
		R 78+77 - R 90+21		2,280.00	0014	01
		R 85+80 - R 89+60		420.00	0014	01
				Item T20.9904 Total:		7,558.00
117	201.9901	REMOVE AND DISPOSE PIEZO SENSORS	EACH			
		BRIDGE 429				
		L 83+42		2.00	0014	01
		L 83+58		2.00	0014	01
		L 83+89		2.00	0014	01
		L 83+97		2.00	0014	01
				Item 201.9901 Total:		8.00

Distribution of Quantities

Project Name - Wanskuck & Hawkins Street Bridges, 428 & 429 - Repairs

Estimate Name - Addendum to PS&E

R.I. Contract No. - 2007-CB-030

FAP Nos: BHO-0428(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
118	202.0700	COMMON BORROW	CY			
		BRIDGE 429				
		M&P 3 TEMPORARY PAVEMENT		35.00	0014	01
				Item 202.0700 Total:		35.00
119	601.0200	CLASS XX PORTLAND CEMENT CONCRETE	CY			
		BRIDGE 429				
		L 84+25		4.00	0014	01
		L 85+10		4.00	0014	01
		R 83+40		4.00	0014	01
		R 84+25		4.00	0014	01
		R 85+10		4.00	0014	01
				Item 601.0200 Total:		20.00
120	906.0602	BITUMINOUS BERM STANDARD 7.5.1	LF			
		BRIDGE 429				
		M&P 3 TEMPORARY PAVEMENT		210.00	0014	01
				Item 906.0602 Total:		210.00
121	924.0113	ADVANCE WARNING ARROW PANEL	PDAY			
		BRIDGE 429				
		M&P 3 TEMPORARY PAVEMENT		30.00	0014	01
				Item 924.0113 Total:		30.00
122	L01.0104	PLANTABLE SOIL 4 INCHES DEEP	SY			
		BRIDGE 429				
		M&P 3 TEMPORARY PAVEMENT		135.00	0014	01
				Item L01.0104 Total:		135.00
123	L02.0101	GENERAL HIGHWAY SEEDING (TYPE 1)	SY			
		BRIDGE 429				
		M&P 3 TEMPORARY PAVEMENT		135.00	0014	01
				Item L02.0101 Total:		135.00

Distribution of Quantities

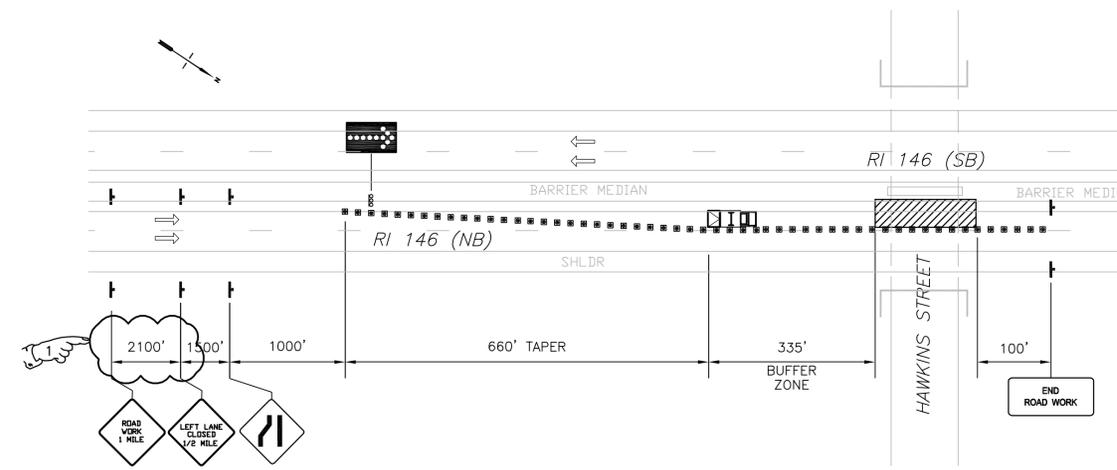
Project Name - Wanskuck & Hawkins Street Bridges, 428 & 429 - Repairs

Estimate Name - Addendum to PS&E

R.I. Contract No. - 2007-CB-030

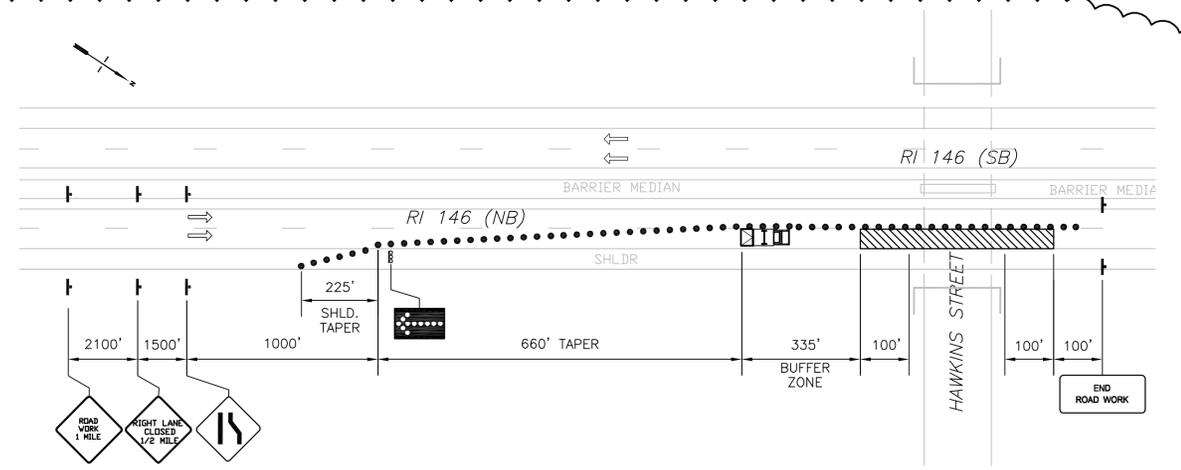
FAP Nos: BHO-0428(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
124	T03.9901	TRAFFIC SIGNAL WOOD SPAN POLE 35 FEET	EACH			
		BRIDGE 429				
		L 83+84		1.00	0014	01
				Item T03.9901 Total:		1.00
125	T06.2020	2 IN. RIGID STEEL CONDUIT-OVERHEAD BRIDGE 429	LF			
		L 83+84		10.00	0014	01
				Item T06.2020 Total:		10.00
126	T06.5020	2 INCH POLYVINYL CHLORIDE PLASTIC CONDUIT-UNDERGROUND	LF			
		BRIDGE 429				
		L 83+84		5.00	0014	01
				Item T06.5020 Total:		5.00
127	T06.6020	2 INCH POLYVINYL CHLORIDE PLASTIC CONDUIT-OVERHEAD	LF			
		BRIDGE 429				
		L 83+84		25.00	0014	01
				Item T06.6020 Total:		25.00
S128	T06.9901	RADAR VEHICLE DETECTOR BRIDGE 429	EACH			
		L 83+84		1.00	0014	01
				Item T06.9901 Total:		1.00



SHORT-TERM TRAFFIC CONTROL PLAN – RT. 146 LEFT LANE CLOSURE

- NOTES:**
1. THIS TRAFFIC CONTROL PLAN SHALL ONLY BE IMPLEMENTED AT NIGHT BETWEEN THE HOURS OF 10PM AND 6AM.
 2. TRAFFIC CONTROL SET-UP FOR WORK OVER ROUTE 146 SOUTHBOUND LEFT TRAVEL LANE WILL BE REVERSED FROM SET-UP SHOWN.
 3. ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2003 EDITION WITH ALL REVISIONS.
 4. "WORK ZONE-TRAFFIC FINES DOUBLE" SIGN SHALL BE INSTALLED WITHIN ALL WORK ZONES IN ACCORDANCE WITH RI STANDARD 27.1.1.
 5. INSTALL W20-1 "ROAD WORK AHEAD" SIGN 200' FROM THE END OF THE FOLLOWING RAMP LOCATED WITHIN THE PROJECT LIMITS:
- CHARLES STREET ON-RAMP (FOR RI 146 NORTHBOUND WORK)

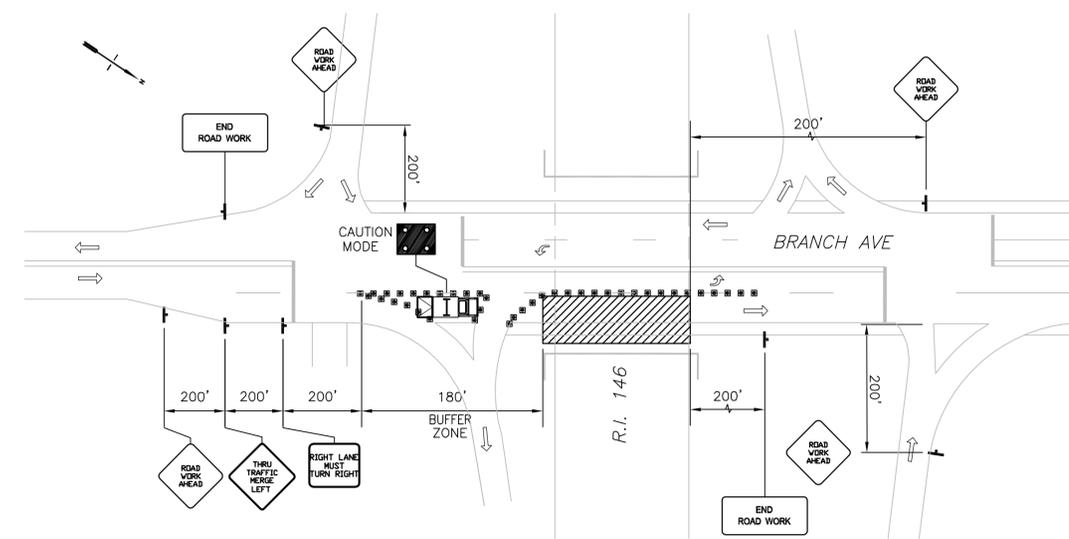


SHORT-TERM TRAFFIC CONTROL PLAN – RT. 146 NORTH BOUND RIGHT LANE CLOSURE

- NOTES:**
1. THIS TRAFFIC CONTROL PLAN SHALL ONLY BE IMPLEMENTED AT NIGHT BETWEEN THE HOURS OF 10PM AND 6AM.
 2. ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2003 EDITION WITH ALL REVISIONS.
 3. "WORK ZONE-TRAFFIC FINES DOUBLE" SIGN SHALL BE INSTALLED WITHIN ALL WORK ZONES IN ACCORDANCE WITH RI STANDARD 27.1.1.
 4. INSTALL W20-1 "ROAD WORK AHEAD" SIGN 200' FROM THE END OF THE FOLLOWING RAMP LOCATED WITHIN THE PROJECT LIMITS:
- CHARLES STREET ON-RAMP (FOR RI 146 NORTHBOUND WORK)

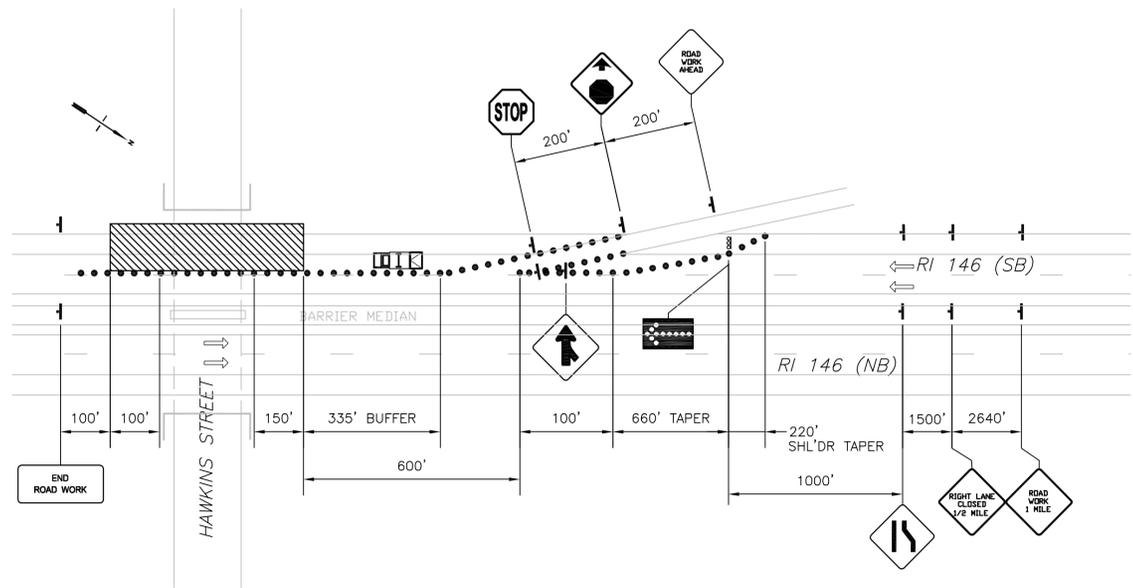
LEGEND

- ⊙ TRAFFIC CONE
- ← DIRECTION OF TRAVEL
- ⊥ SIGN
- ▬ TRUCK W/ARROW & ATTENUATOR
- ⊡ FLASHING ARROW PANEL
- ▨ WORK AREA
- DRUM R.I. STD. 26.2.0



SHORT-TERM TRAFFIC CONTROL PLAN – BRANCH AVE. RIGHT LANE CLOSURE

- NOTES:**
1. THIS TRAFFIC CONTROL PLAN SHALL ONLY BE IMPLEMENTED BETWEEN THE HOURS OF 9AM AND 3PM.
 2. ALL SIGNALS SHALL REMAIN IN NORMAL OPERATION FOR SET-UPS AT THIS LOCATION.
 3. TRAFFIC CONTROL SET-UP FOR WORK ON BRANCH AVENUE WESTBOUND TRAVEL LANES WILL BE REVERSED FROM SET-UP SHOWN.
 4. ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2003 EDITION WITH ALL REVISIONS.
 5. ACCESS TO ALL BUSINESSES AND RESIDENCES WITHIN THE WORK AREA SHALL BE MAINTAINED AT ALL TIMES.
 6. "WORK ZONE-TRAFFIC FINES DOUBLE" SIGN SHALL BE INSTALLED WITHIN ALL WORK ZONES IN ACCORDANCE WITH RI STANDARD 27.1.1.



SHORT-TERM TRAFFIC CONTROL PLAN – RT. 146 SOUTH BOUND RIGHT LANE CLOSURE

- NOTES:**
1. THIS TRAFFIC CONTROL PLAN SHALL ONLY BE IMPLEMENTED AT NIGHT BETWEEN THE HOURS OF 10PM AND 6AM.
 2. ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2003 EDITION WITH ALL REVISIONS.
 3. "WORK ZONE-TRAFFIC FINES DOUBLE" SIGN SHALL BE INSTALLED WITHIN ALL WORK ZONES IN ACCORDANCE WITH RI STANDARD 27.1.1.
 4. INSTALL W20-1 "ROAD WORK AHEAD" SIGN 200' FROM THE END OF THE FOLLOWING RAMP LOCATED WITHIN THE PROJECT LIMITS:
- BRANCH AVENUE ON-RAMP (FOR RI 146 SOUTHBOUND WORK)

REVISIONS

NO.	DATE	BY
1	05/14/07	KV

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

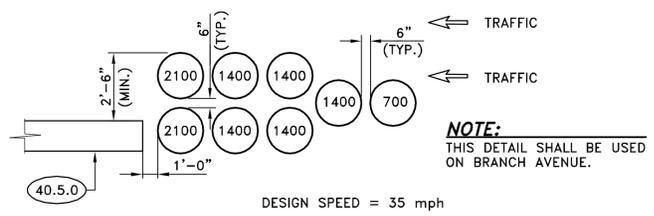
INTERIM REPAIRS TO BRIDGE Nos. 428 AND 429
PROVIDENCE, RHODE ISLAND

MAINTENANCE AND PROTECTION OF TRAFFIC PLAN No. 4

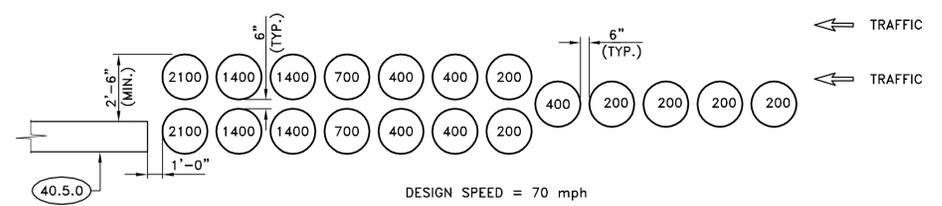
CHECKED BY: _____ DATE: _____ SCALE: NTS

PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-1100

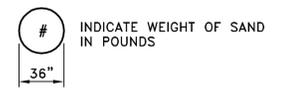
R-1



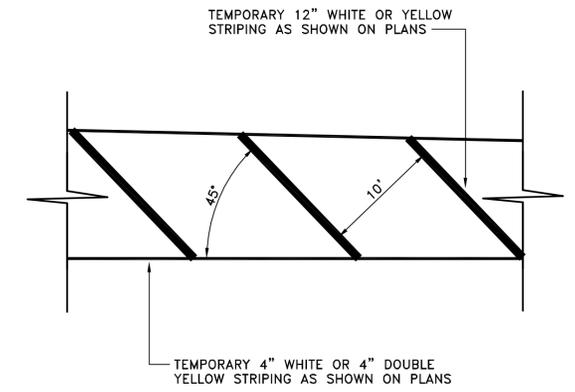
DESIGN SPEED = 35 mph



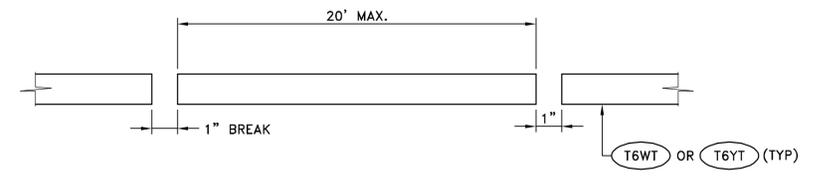
DESIGN SPEED = 70 mph



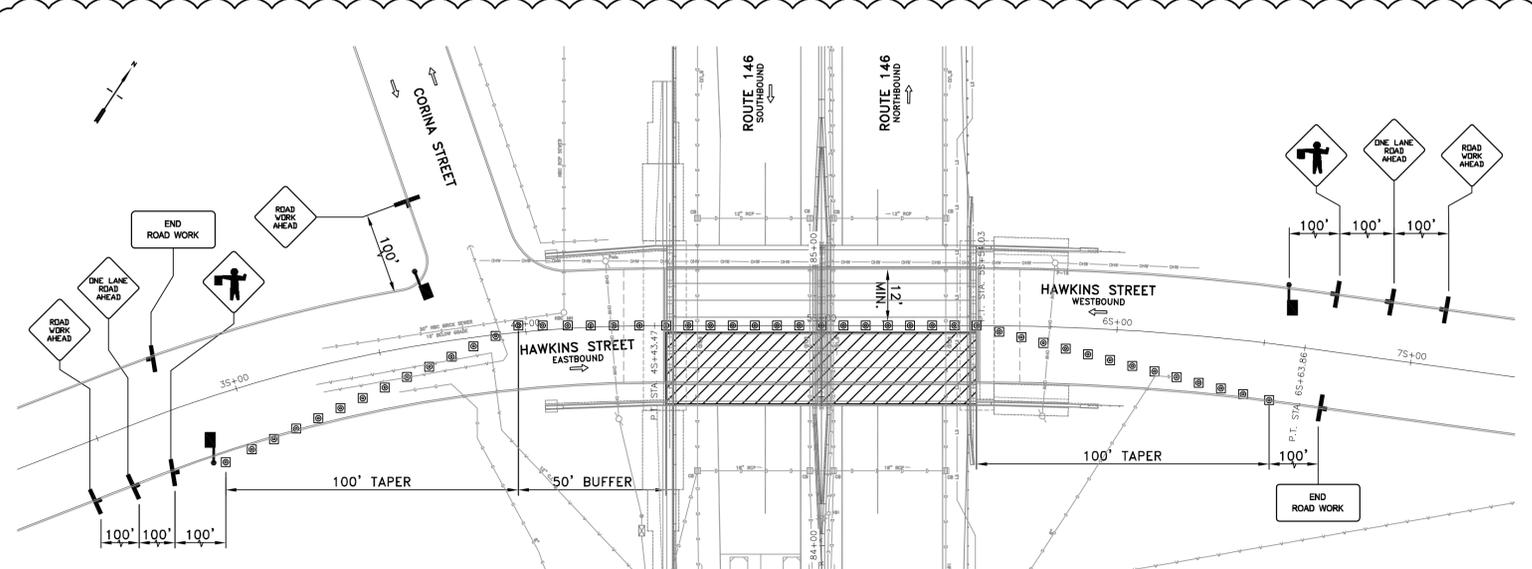
SHOCK ABSORBING BARRIER MODULE DETAILS



CROSS HATCHING DETAIL

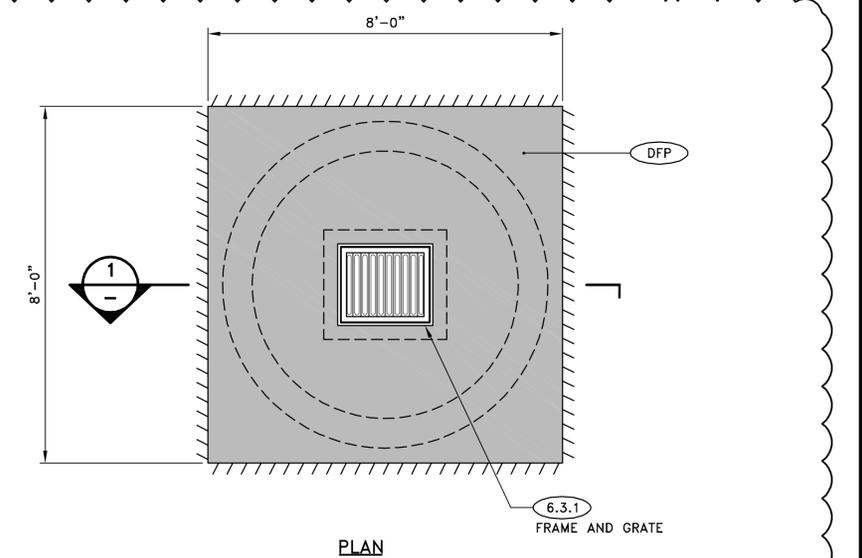


TEMPORARY PAVEMENT MARKING (TAPE) BREAK DETAIL

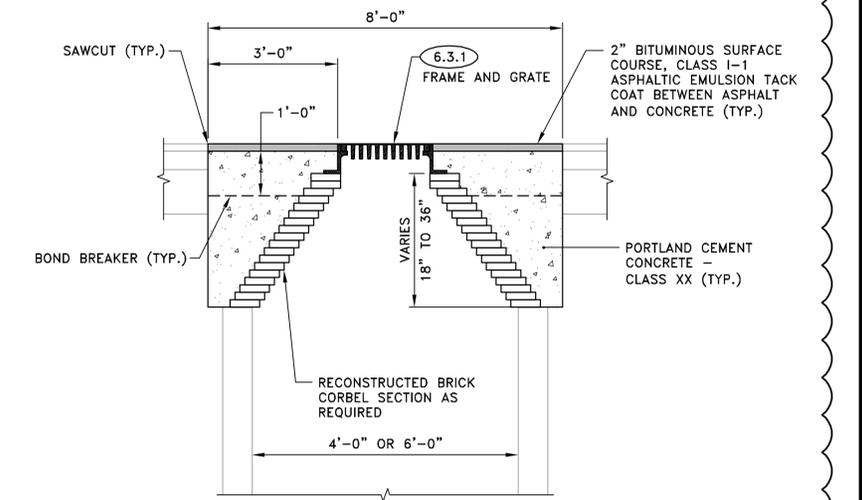


SHORT-TERM TRAFFIC CONTROL PLAN - HAWKINS ST. SINGLE LANE CLOSURE

- NOTES:**
1. THIS TRAFFIC CONTROL PLAN SHALL ONLY BE IMPLEMENTED BETWEEN THE HOURS OF 9AM AND 2PM.
 2. TRAFFIC CONTROL SET-UP FOR WORK OVER HAWKINS STREET WESTBOUND WILL BE SIMILAR TO SET-UP SHOWN.
 3. ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2003 EDITION WITH ALL REVISIONS.
 4. "WORK ZONE-TRAFFIC FINES DOUBLE" SIGN SHALL BE INSTALLED WITHIN ALL WORK ZONES IN ACCORDANCE WITH RI STANDARD 27.1.1.
 5. ACCESS TO ALL BUSINESSES AND RESIDENCES WITHIN THE WORK AREA SHALL BE MAINTAINED AT ALL TIMES.



PLAN



SECTION 1
NOT TO SCALE

RECONSTRUCT CATCH BASIN - CORBEL CONES

- NOTES:**
1. PORTLAND CEMENT CONCRETE CLASS XX SHALL BE IN ACCORDANCE WITH SECTION 601 OR THE R.I. STANDARD SPECIFICATIONS LATEST EDITION.
 2. PAYMENT FOR BITUMINOUS CONCRETE, CEMENT CONCRETE, SAWCUTTING AND PAVEMENT REMOVAL, SHALL BE PAID FOR SEPARATELY UNDER THEIR RESPECTIVE ITEM CODES.
 3. THE CATCH BASIN FRAME SHALL BE SET TO MATCH FINAL GRADE.



REVISIONS		
NO.	DATE	BY
1	05/14/07	KV

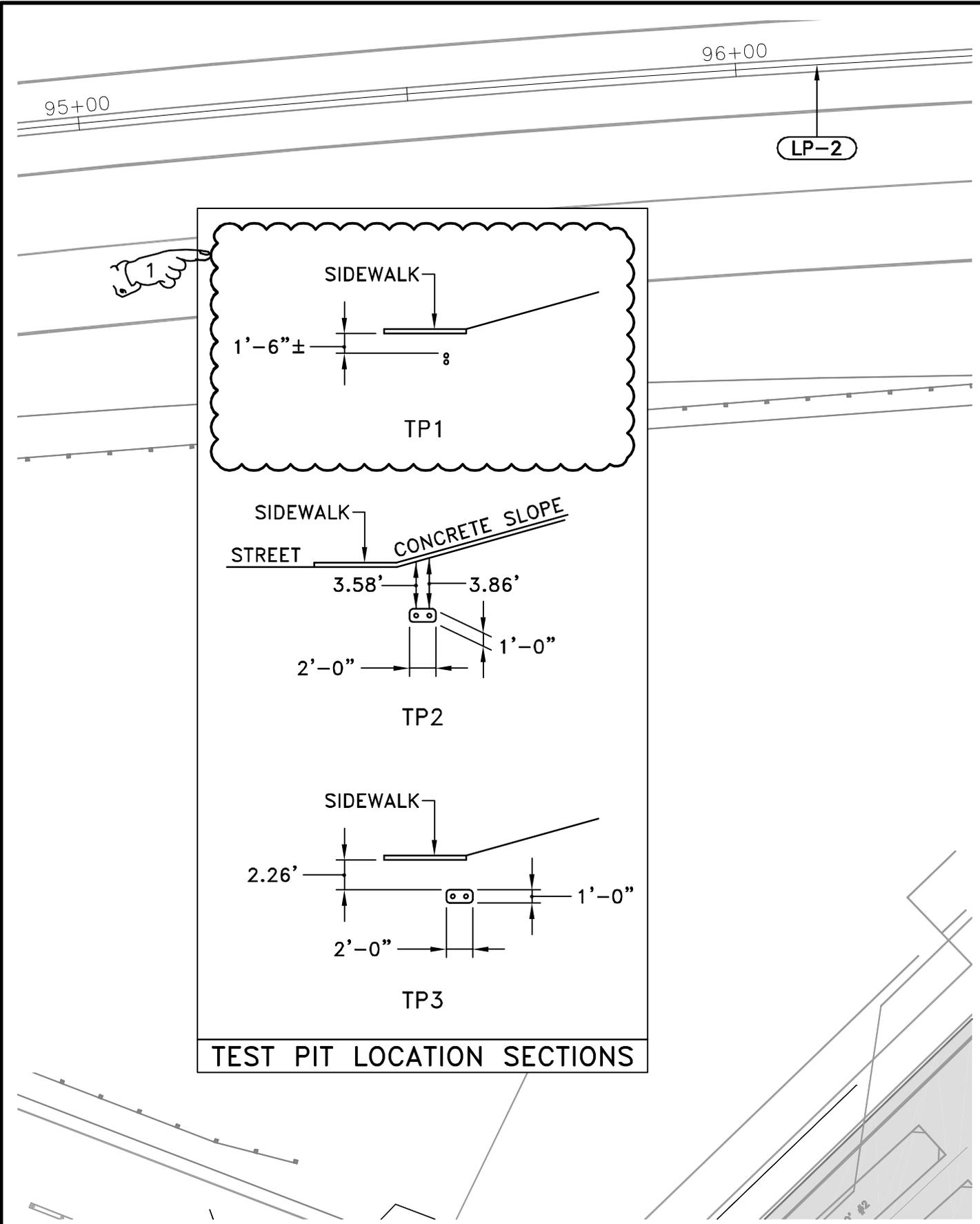
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

INTERIM REPAIRS TO
BRIDGE Nos. 428 AND 429

PROVIDENCE, RHODE ISLAND

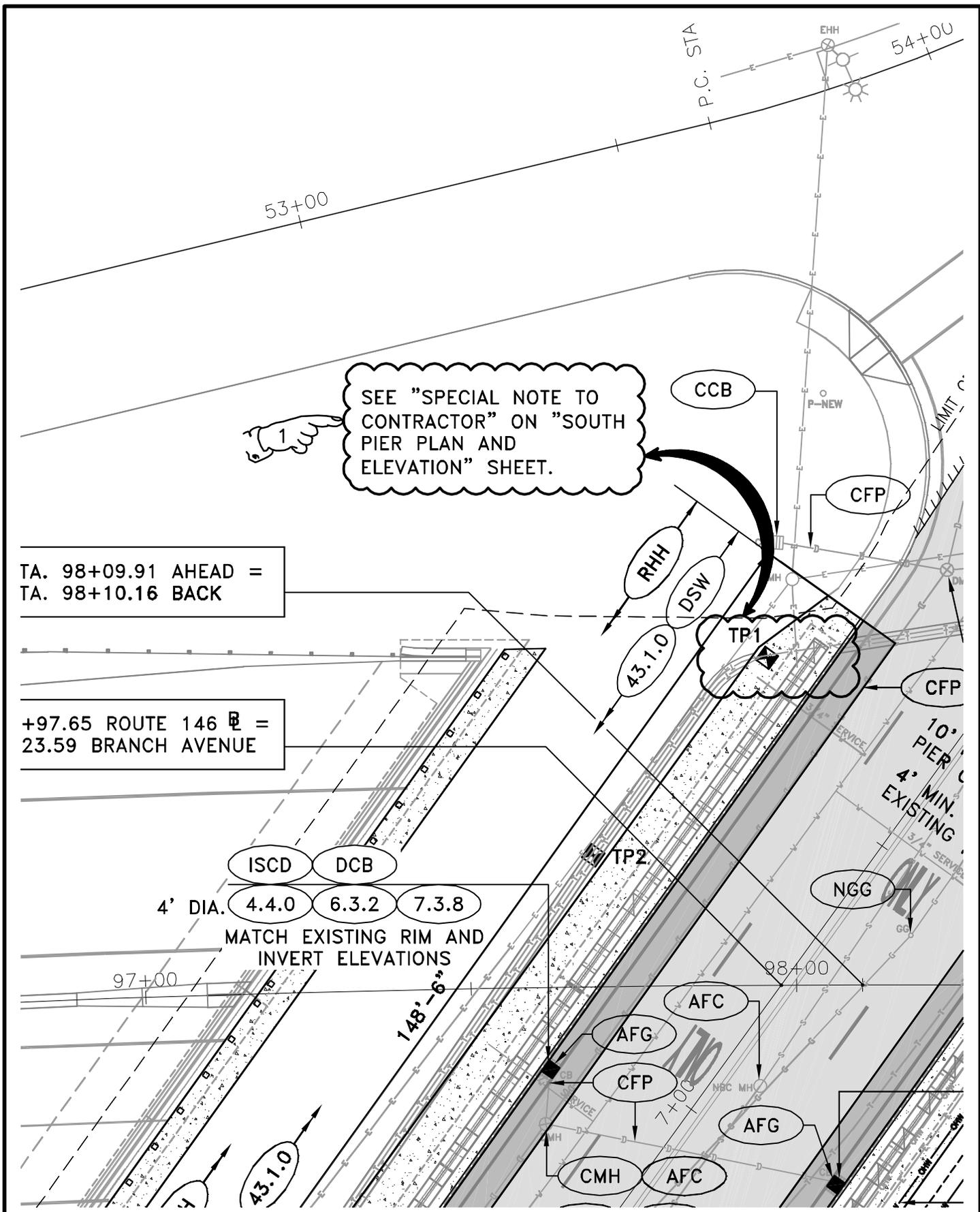
MAINTENANCE AND PROTECTION OF TRAFFIC PLAN No. 6

CHECKED BY: _____ DATE: _____ SCALE: _____ NTS



TEST PIT LOCATION SECTIONS

 <p>PARE CORPORATION ENGINEERS - SCIENTISTS - PLANNERS 8 BLACKSTONE VALLEY PLACE LINCOLN, RI 02865 401-334-4100</p>	<p>TITLE OF PLAN BRIDGE NO. 428 GENERAL PLAN</p>	<p>R.I. CONTRACT No. 2007-CB-030</p>	<p>SKETCH No. 1</p>
<p>05/14/07</p>	<p>ADDENDUM No. 1</p>	<p>REVISION TO SHEET - 12</p>	



 <p>PARE CORPORATION ENGINEERS - SCIENTISTS - PLANNERS 8 BLACKSTONE VALLEY PLACE LINCOLN, RI 02865 401-334-4100</p>	TITLE OF PLAN BRIDGE NO. 428 GENERAL PLAN		R.I. CONTRACT No. 2007-CB-030	SKETCH No. 2
	05/14/07		ADDENDUM No. 1	
		REVISION TO SHEET - 12		

CONCRETE ENCASEMENT HAS BEEN REMOVED FROM VERIZON COMMUNICATIONS' DUCTS WITHIN THE LIMITS SHOWN AND DUCTS HAVE BEEN TEMPORARILY REALIGNED TO FACILITATE BRIDGE RECONSTRUCTION, SEE "SPECIAL NOTE TO CONTRACTOR" ON "SOUTH PIER PLAN AND ELEVATION" SHEET

(2) 4" ϕ PVC (ACTIVE) VERIZON COMMUNICATIONS DUCTS ENCASED IN CONCRETE TO REMAIN

CL BRG. SOUTH ABUTMENT (FIXED)

CB

EMH

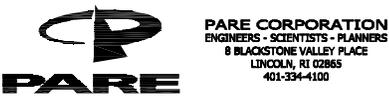
CL BRG.

EXISTING ABUTMENT FOOTING

REMOVE AND REPLACE PORTLAND CEMENT CONCRETE SLOPE PAVING CAST-IN-PLACE, SEE BRIDGE SECTION FOR LIMITS (TYP.)

PROPOSED SHORING AT EACH ABUTMENT BEAM END (LEFT-IN-PLACE) (BELOW)

STA. 98+10.16 (BACK)
 STA. 98+09.91 (AHEAD)



TITLE OF PLAN
 BRIDGE NO. 428
 BRIDGE GENERAL PLAN

R.I. CONTRACT No.
 2007-CB-030

SKETCH No.
 3

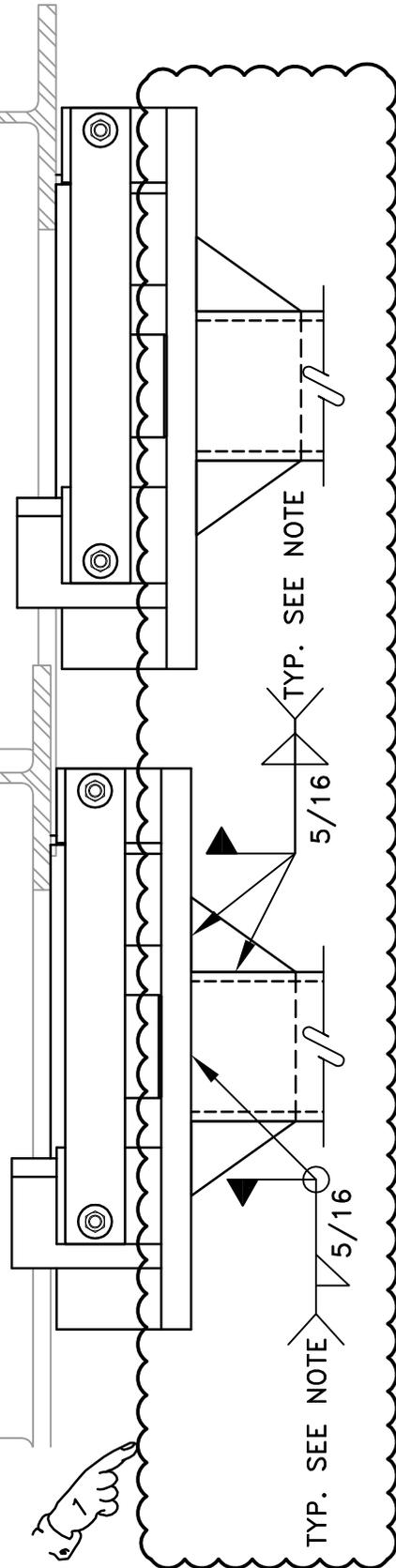
05/14/07

ADDENDUM No. 1

REVISION TO SHEET - 18

NOTE:

TOP SURFACE OF COLUMN AND THRU PLATE SHALL BE GROUND SMOOTH TO PROVIDE UNIFORM BEARING SURFACE PRIOR TO WELDING.



TYP. SEE NOTE 5/16 5/16

1" ϕ M253 BOI
W/OVERSIZED
HOLES (TYP.)

3/16 (TYP.)

11 1/2"
(TYP.)

1 3/16"
(TYP.)

1"

2 1/8"

1'-2"

W.P. (EL. 51.23)



PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

TITLE OF PLAN
BRIDGE NO. 428
**BRIDGE JACKING AND
SHORING DETAILS 1**

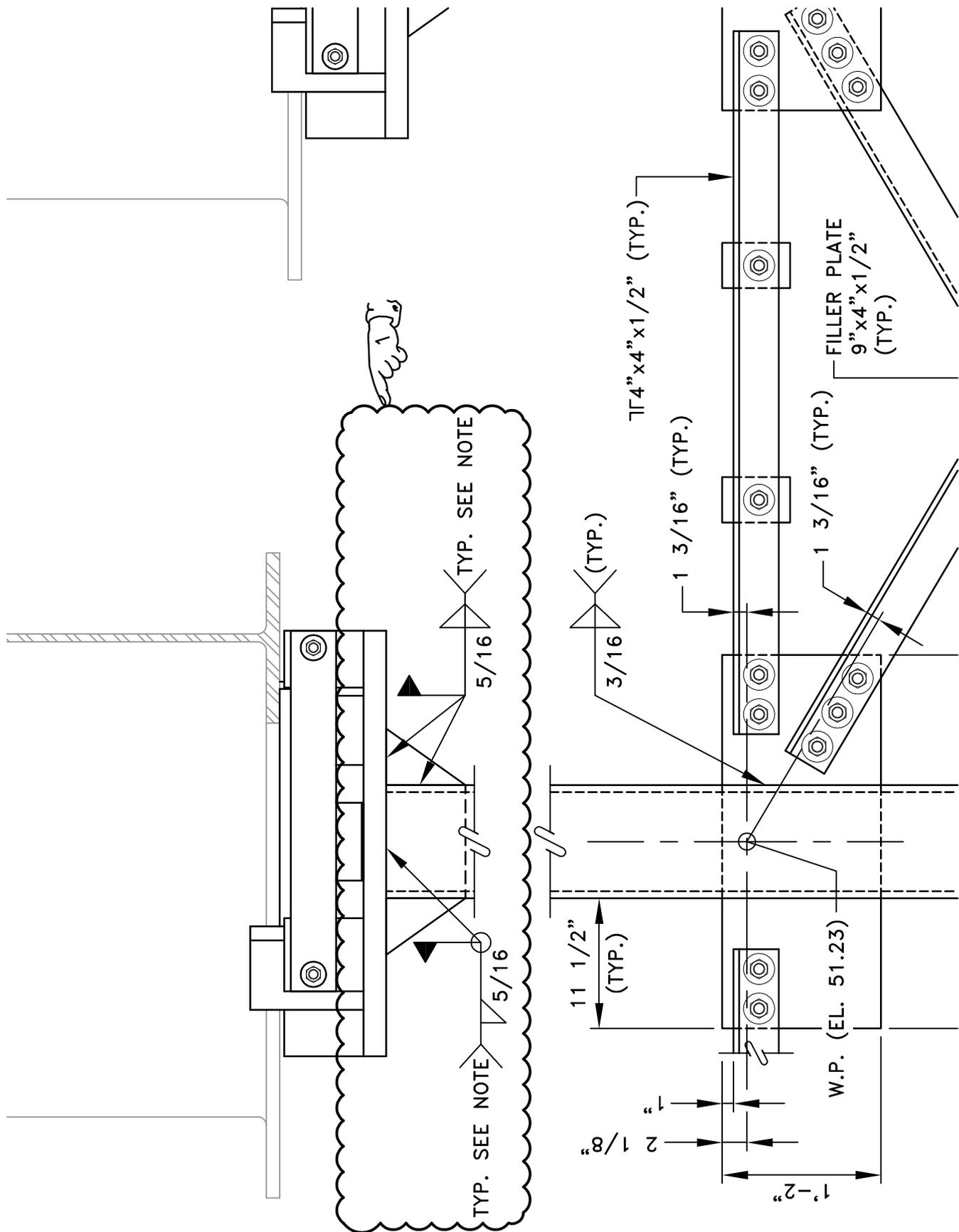
R.I. CONTRACT
No.
2007-CB-030

SKETCH
No.
4

05/14/07

ADDENDUM No. 1

REVISION TO SHEET - 26



PARE CORPORATION
 ENGINEERS - SCIENTISTS - PLANNERS
 8 BLACKSTONE VALLEY PLACE
 LINCOLN, RI 02865
 401-334-4100

TITLE OF PLAN
 BRIDGE NO. 428
**BRIDGE JACKING AND
 SHORING DETAILS 1**

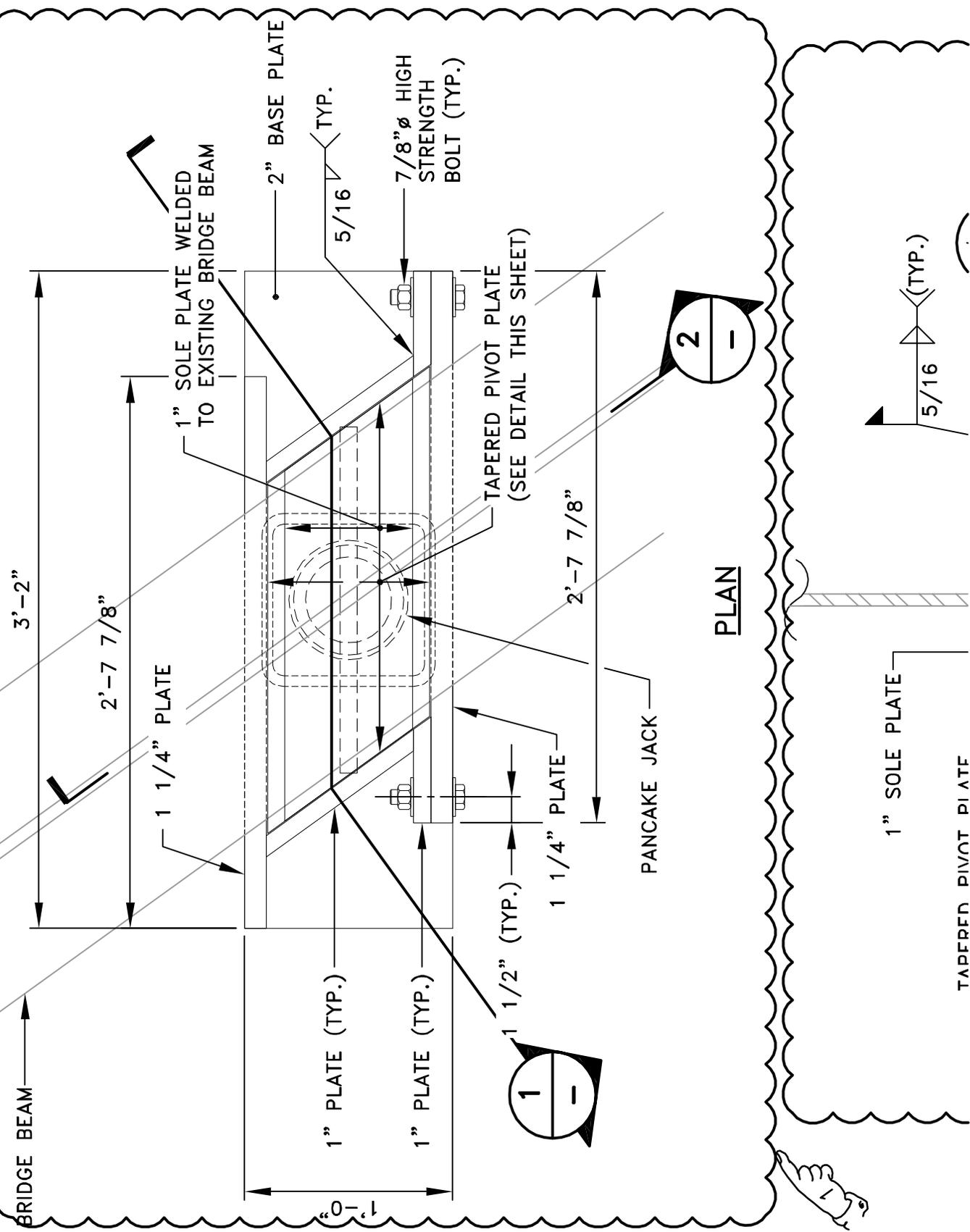
R.I. CONTRACT
 No.
2007-CB-030

SKETCH
 No.
5

05/14/07

ADDENDUM No. 1

REVISION TO SHEET - 26



PARE CORPORATION
 ENGINEERS - SCIENTISTS - PLANNERS
 8 BLACKSTONE VALLEY PLACE
 LINCOLN, RI 02865
 401-334-4100

TITLE OF PLAN
 BRIDGE NO. 428
**BRIDGE JACKING AND
 SHORING DETAILS 2**

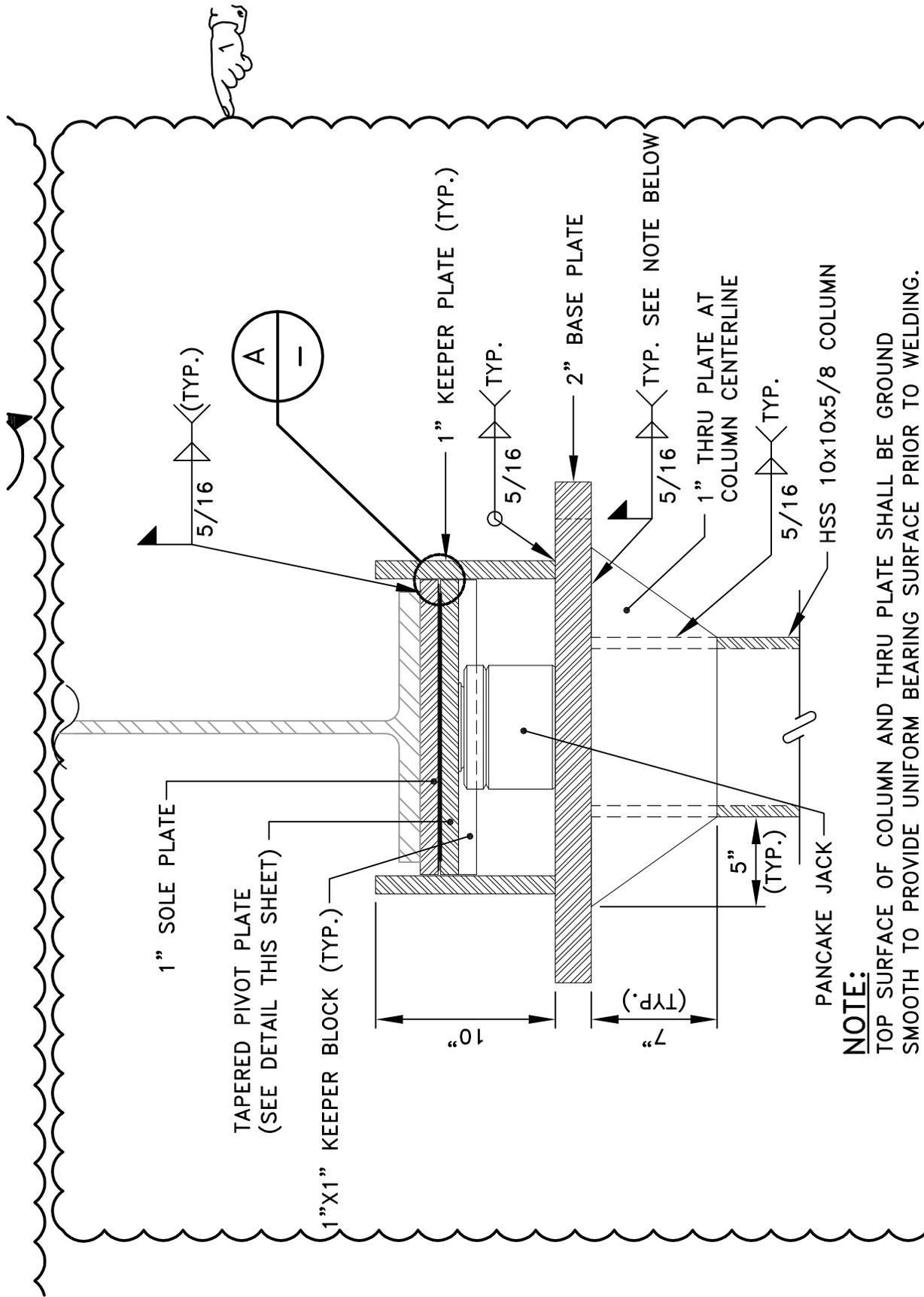
R.I. CONTRACT
 No.
2007-CB-030

SKETCH
 No.
6

05/14/07

ADDENDUM No. 1

REVISION TO SHEET - 27



SECTION 1



PARE CORPORATION
 ENGINEERS - SCIENTISTS - PLANNERS
 8 BLACKSTONE VALLEY PLACE
 LINCOLN, RI 02865
 401-334-4100

TITLE OF PLAN
 BRIDGE NO. 428
**BRIDGE JACKING AND
 SHORING DETAILS 2**

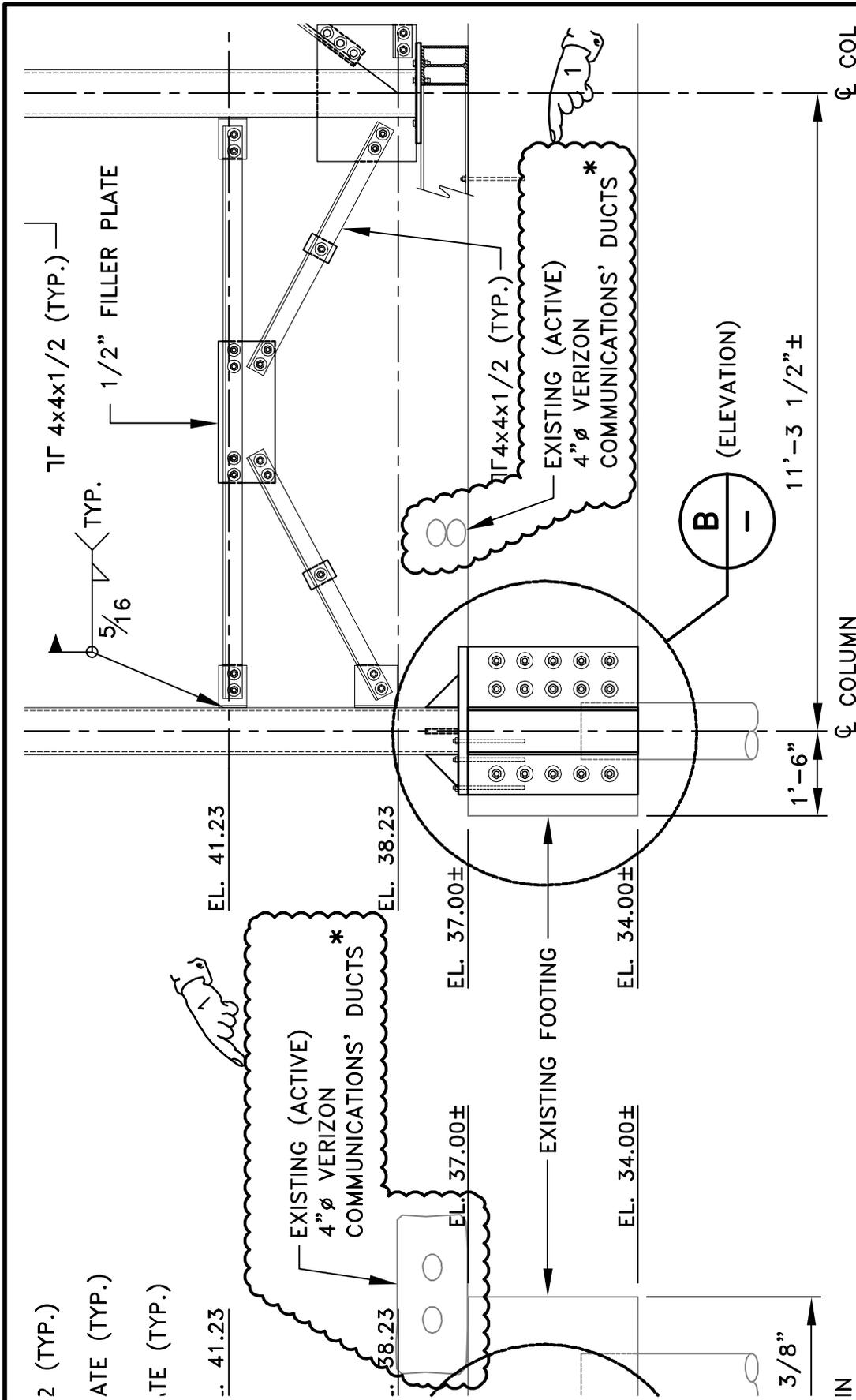
R.I. CONTRACT
 No.
2007-CB-030

SKETCH
 No.
7

05/14/07

ADDENDUM No. 1

REVISION TO SHEET - 27



SOUTH FACE

* SEE "SPECIAL NOTE TO CONTRACTOR" ON "SOUTH PIER PLAN AND ELEVATION" SHEET.

SOUTH PIER ELEVATIONS



PARE CORPORATION
 ENGINEERS - SCIENTISTS - PLANNERS
 8 BLACKSTONE VALLEY PLACE
 LINCOLN, RI 02865
 401-334-4100

05/14/07

TITLE OF PLAN
 BRIDGE NO. 428
BRIDGE JACKING AND SHORING DETAILS 3

ADDENDUM No. 1

R.I. CONTRACT
 No.
2007-CB-030

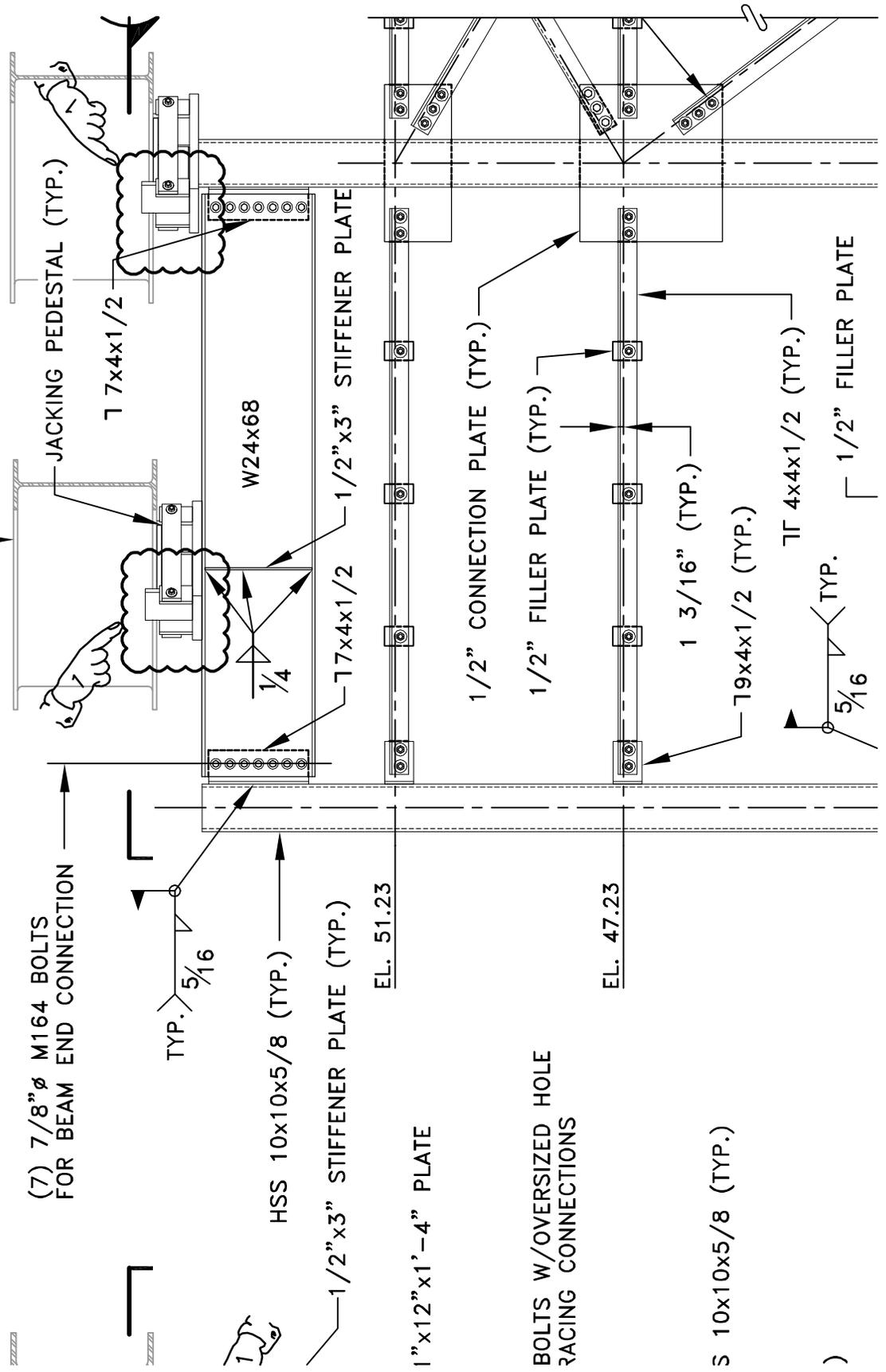
REVISION TO SHEET - 28

SKETCH
 No.
8

EXISTING BRIDGE BEAM (TYP.)

NOTE:
 PROVIDE EXPANSION
 PEDESTAL AT BEAM S-21

(7) 7/8" ϕ M164 BOLTS
 FOR BEAM END CONNECTION



BOLTS W/OVERIZED HOLE
 RACING CONNECTIONS

S 10x10x5/8 (TYP.)



PARE CORPORATION
 ENGINEERS - SCIENTISTS - PLANNERS
 8 BLACKSTONE VALLEY PLACE
 LINCOLN, RI 02865
 401-334-4100

TITLE OF PLAN
 BRIDGE NO. 428
**BRIDGE JACKING AND
 SHORING DETAILS 3**

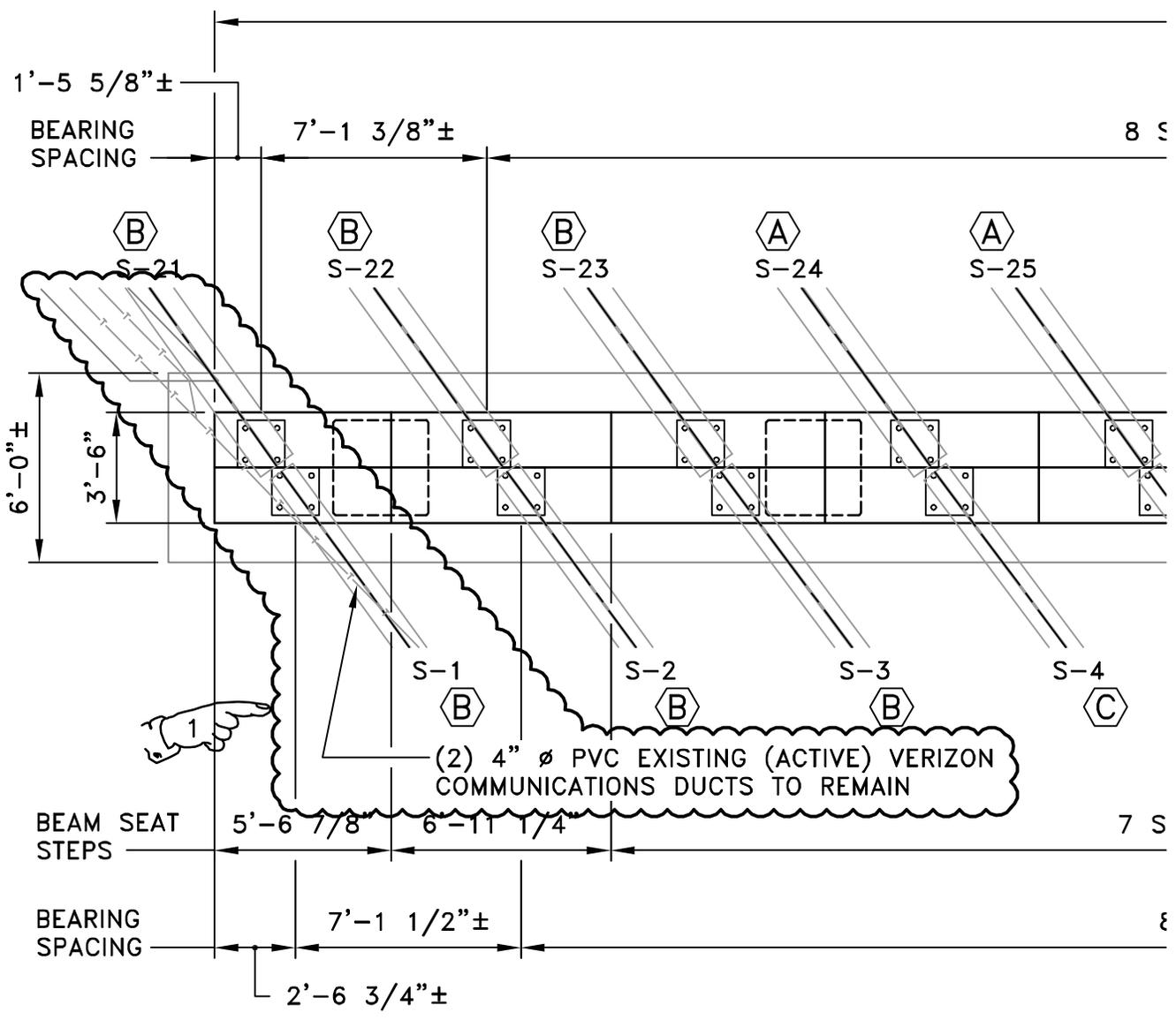
R.I. CONTRACT
 No.
2007-CB-030

SKETCH
 No.
10

05/14/07

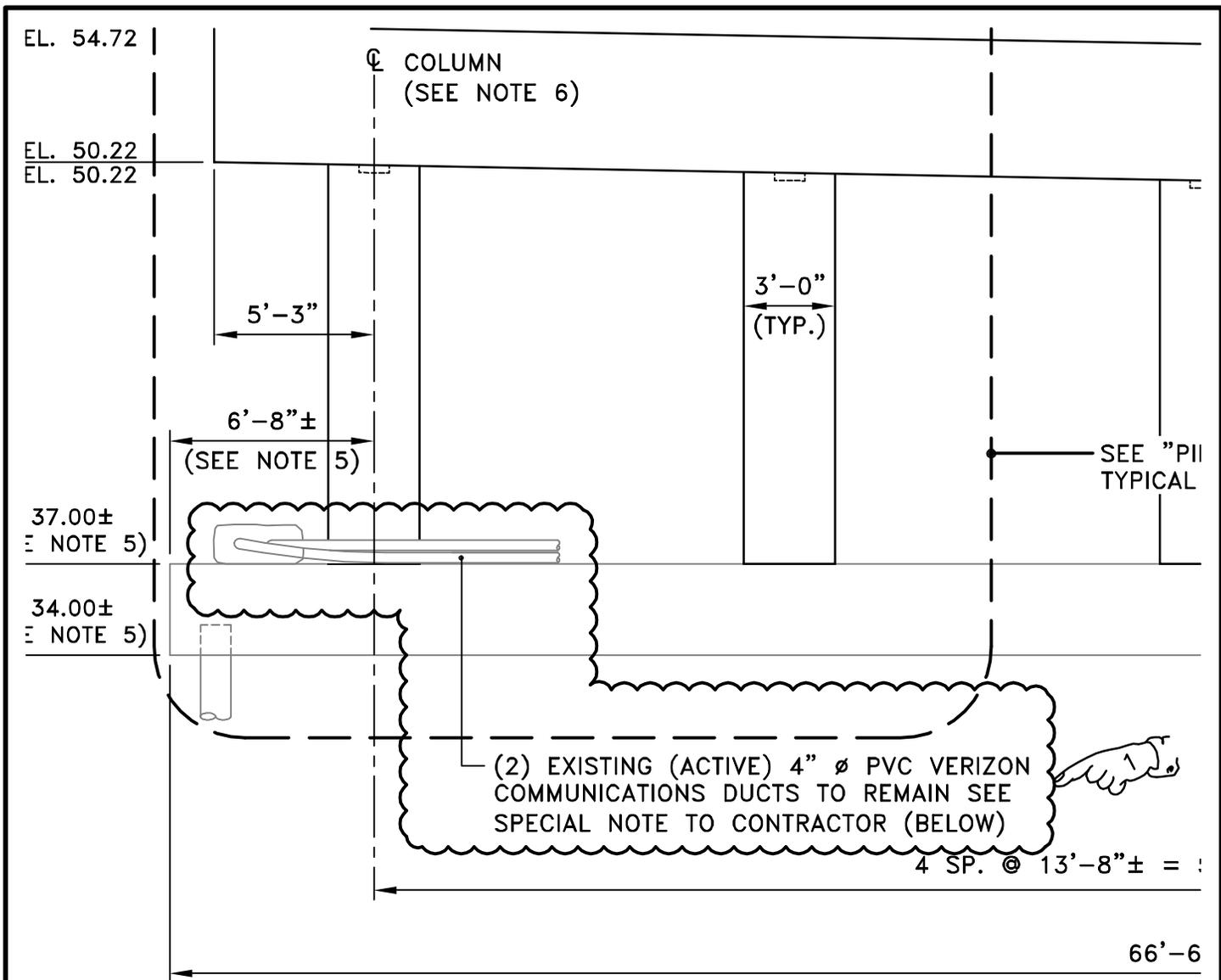
ADDENDUM No. 1

REVISION TO SHEET - 28



N EL. 55.06 S EL. 55.00	N EL. 55.10 S EL. 55.06	N EL. 55.13 S EL. 55.09	N EL. 54.96 S EL. 54.92	N EL. 54.79 S EL. 54.75	N S
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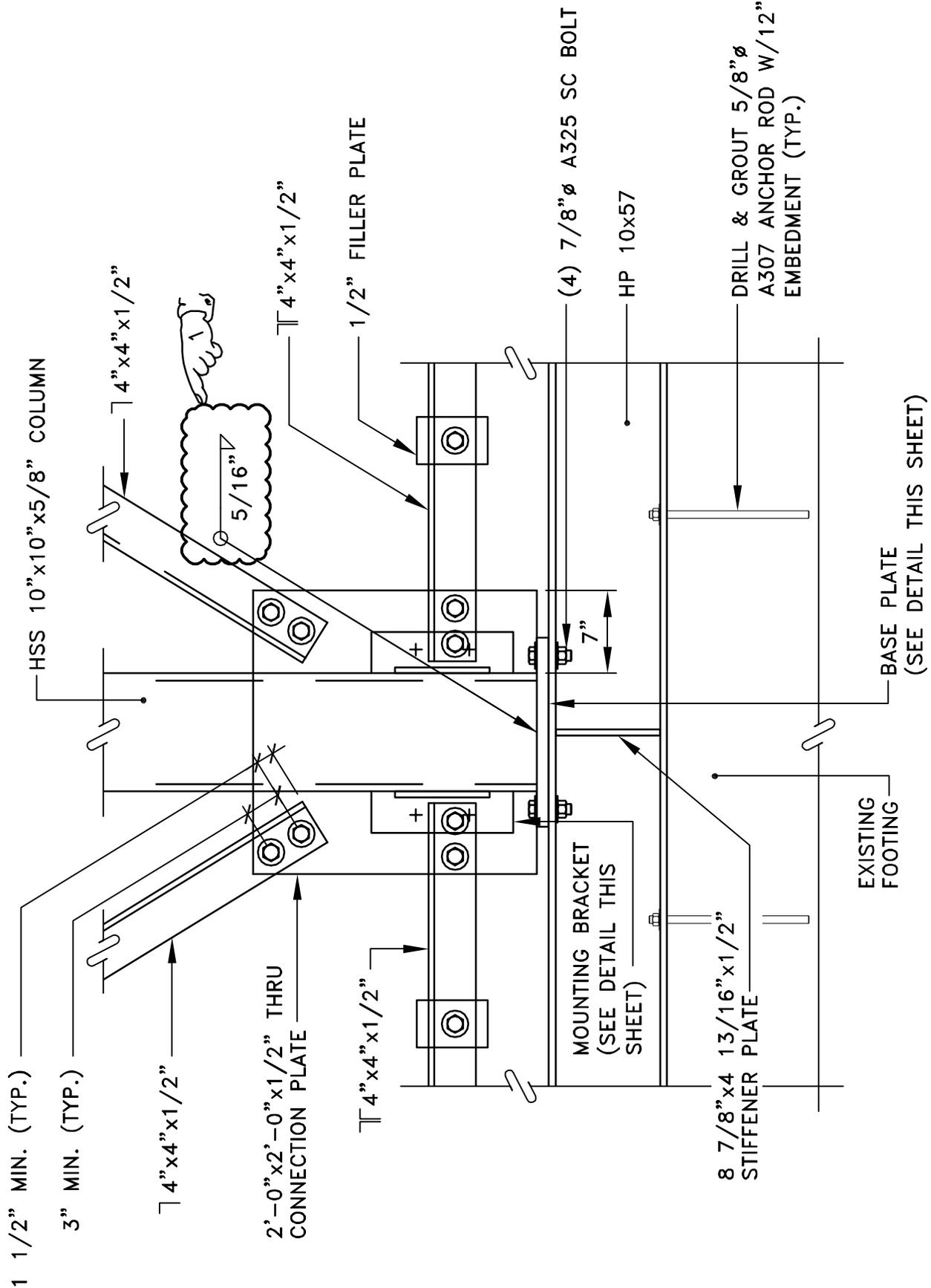
 <p>PARE CORPORATION ENGINEERS - SCIENTISTS - PLANNERS 8 BLACKSTONE VALLEY PLACE LINCOLN, RI 02865 401-334-4100</p>	TITLE OF PLAN BRIDGE NO. 428 SOUTH PIER PLAN AND ELEVATION		R.I. CONTRACT No. 2007-CB-030	SKETCH No. 11
	05/14/07	ADDENDUM No. 1	REVISION TO SHEET - 30	



SPECIAL NOTE TO CONTRACTOR:

VERIZON COMMUNICATIONS HAS TEMPORARILY REMOVED CONCRETE ENCASEMENT AND REALIGNED THE (2) 4" Ø PVC DUCTS FROM THE FACE OF CURB TO TOE OF THE SLOPE PAVING TO FACILITATE BRIDGE RECONSTRUCTION. CONTRACTOR SHALL TAKE SPECIAL CARE NOT TO DAMAGE THESE ACTIVE DUCTS DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH VERIZON COMMUNICATIONS UPON COMPLETION OF THE SOUTH PIER AND REMOVAL OF THE TEMPORARY SHORING SYSTEM TO ALLOW VERIZON COMMUNICATIONS TO RESTORE DUCT ALIGNMENT AND CONCRETE ENCASEMENT PRIOR TO BACKFILLING AND CASTING NEW SIDEWALK.

 <p>PARE CORPORATION ENGINEERS - SCIENTISTS - PLANNERS 8 BLACKSTONE VALLEY PLACE LINCOLN, RI 02865 401-334-4100</p>	<p>TITLE OF PLAN BRIDGE NO. 428 SOUTH PIER PLAN AND ELEVATION</p>	<p>R.I. CONTRACT No. 2007-CB-030</p>	<p>SKETCH No. 12</p>
<p>05/14/07</p>	<p>ADDENDUM No. 1</p>	<p>REVISION TO SHEET - 30</p>	



(TYPICAL AT MID JACKING COLUMN AT BASE)



PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

TITLE OF PLAN
BRIDGE NO. 429
**BRIDGE JACKING AND
SHORING DETAILS 2**

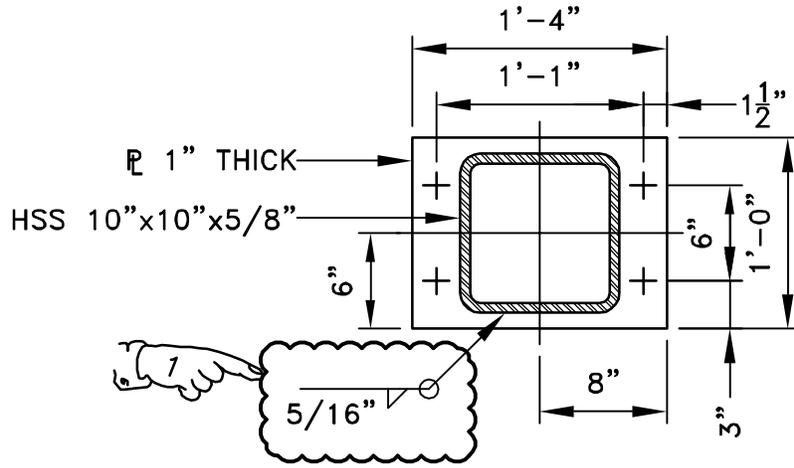
R.I. CONTRACT
No.
2007-CB-030

SKETCH
No.
13

05/14/07

ADDENDUM No. 1

REVISION TO SHEET - 41



TYPICAL BASE PLATE



PARE CORPORATION
 ENGINEERS - SCIENTISTS - PLANNERS
 8 BLACKSTONE VALLEY PLACE
 LINCOLN, RI 02865
 401-334-4100

TITLE OF PLAN
 BRIDGE NO. 429
 BRIDGE JACKING AND
 SHORING DETAILS 2

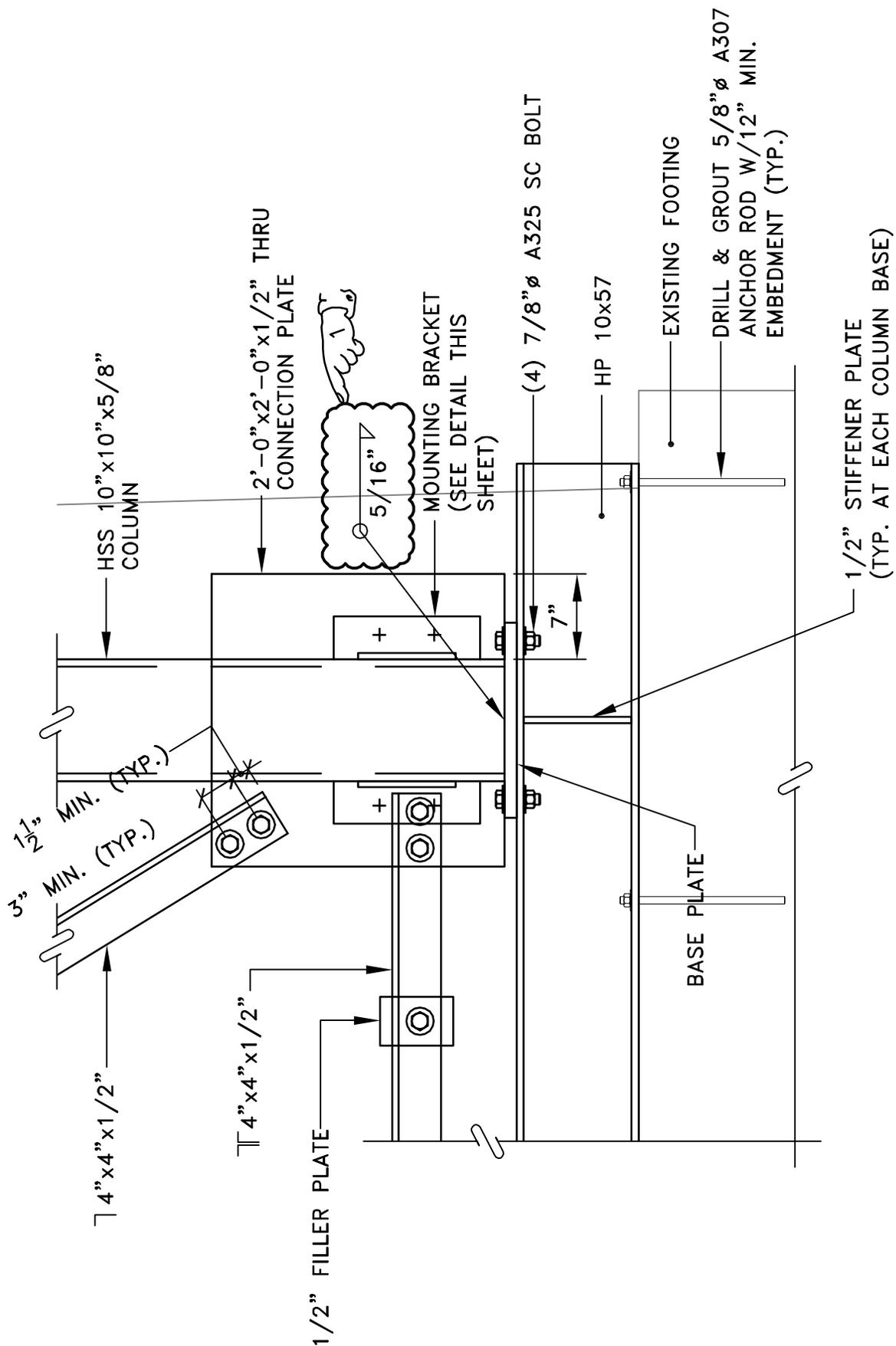
R.I. CONTRACT
 No.
 2007-CB-030

SKETCH
 No.
 14

05/14/07

ADDENDUM No. 1

REVISION TO SHEET - 41



(TYPICAL AT END JACKING COLUMN AT BASE)



PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

TITLE OF PLAN
BRIDGE NO. 429
BRIDGE JACKING AND
SHORING DETAILS 2

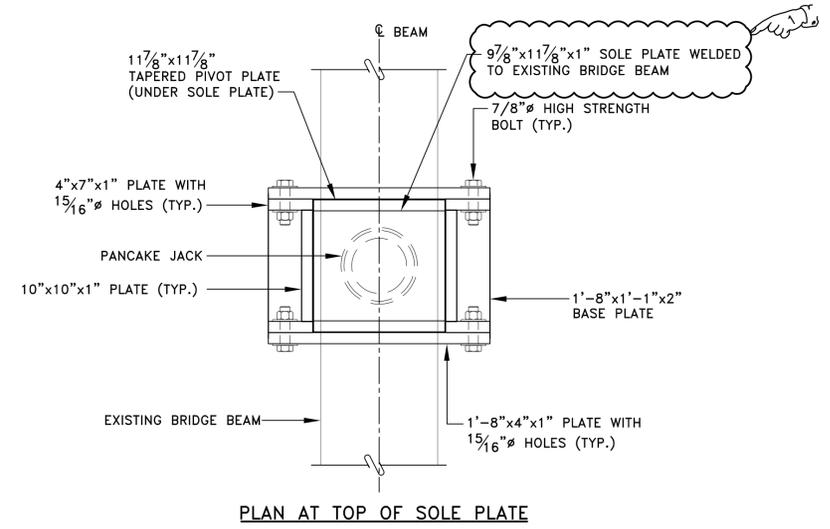
R.I. CONTRACT
No.
2007-CB-030

SKETCH
No.
15

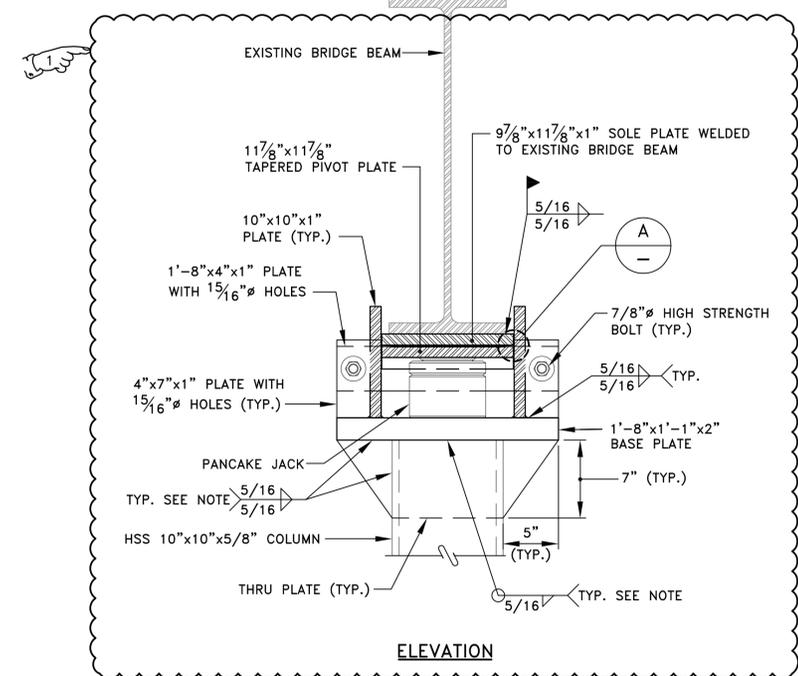
05/14/07

ADDENDUM No. 1

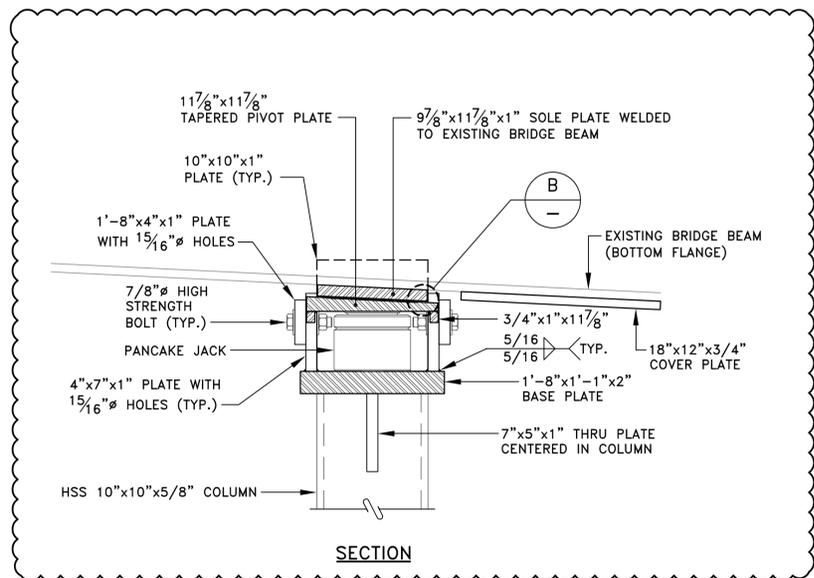
REVISION TO SHEET - 41



PLAN AT TOP OF SOLE PLATE

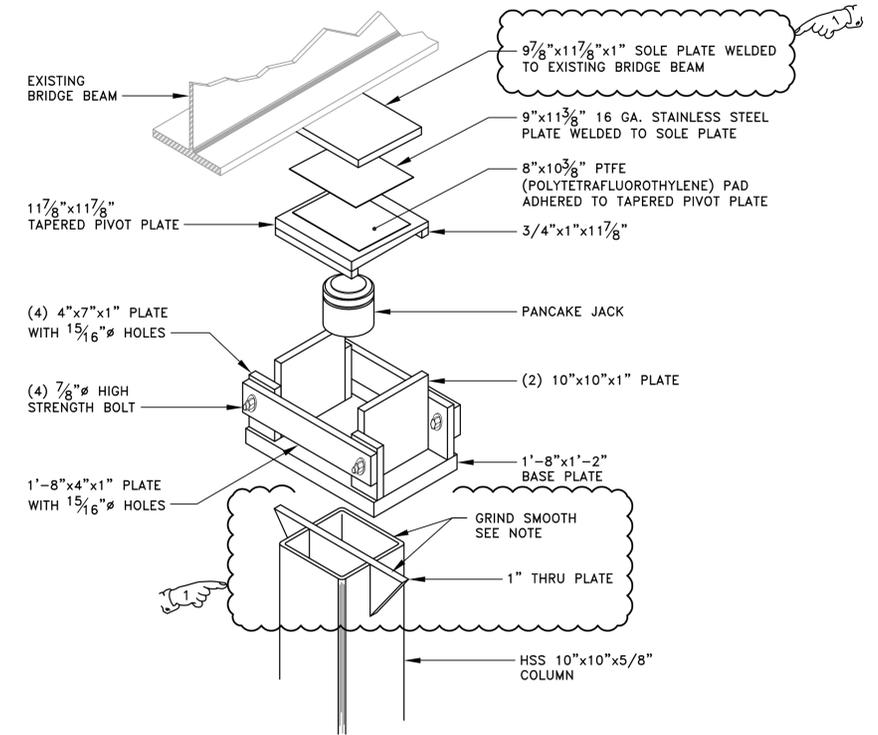


ELEVATION

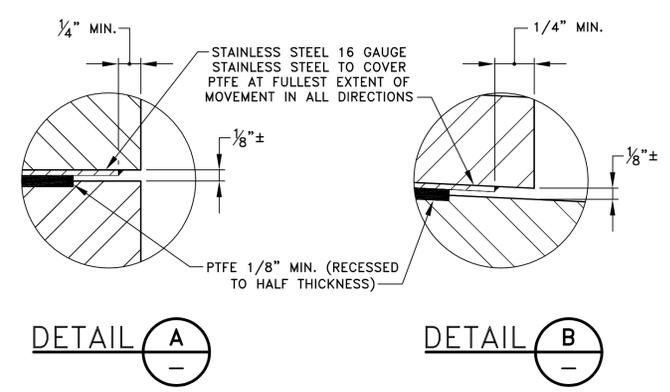


SECTION

JACKING PEDESTAL
SCALE: 1 1/2"=1'-0"

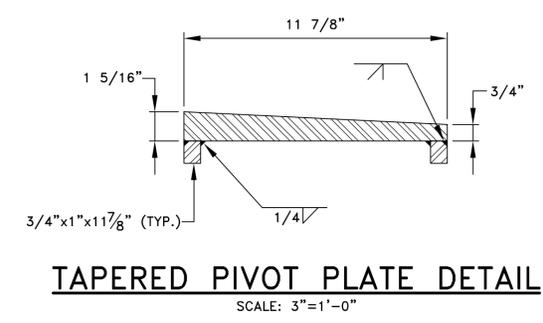


JACKING PEDESTAL - ISOMETRIC VIEW
SCALE: 1 1/2"=1'-0"



DETAIL A

DETAIL B



TAPERED PIVOT PLATE DETAIL
SCALE: 3"=1'-0"

NOTE:
TOP SURFACE OF COLUMN AND THRU PLATE SHALL BE GROUND SMOOTH TO PROVIDE UNIFORM BEARING SURFACE PRIOR TO WELDING.



REVISIONS		
NO.	DATE	BY
1	05/14/07	KV

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

INTERIM REPAIRS TO
BRIDGE Nos. 428 AND 429

PROVIDENCE, RHODE ISLAND

BRIDGE NO. 429
BRIDGE JACKING AND SHORING DETAILS 3

CHECKED BY: _____ DATE: _____ SCALE: AS NOTED