August 30, 2019

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7598901

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2019-CB-077

FEDERAL-AID PROJECT NO. FAP Nos: BRO-0257(003)

Bridge Group 12A - Sandy Bottom

200 feet east and 200 feet west of Sandy Bottom Bridge No. 257.

CITY/TOWN OF Coventry

COUNTY OF KENT

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 4 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 Reference Documents

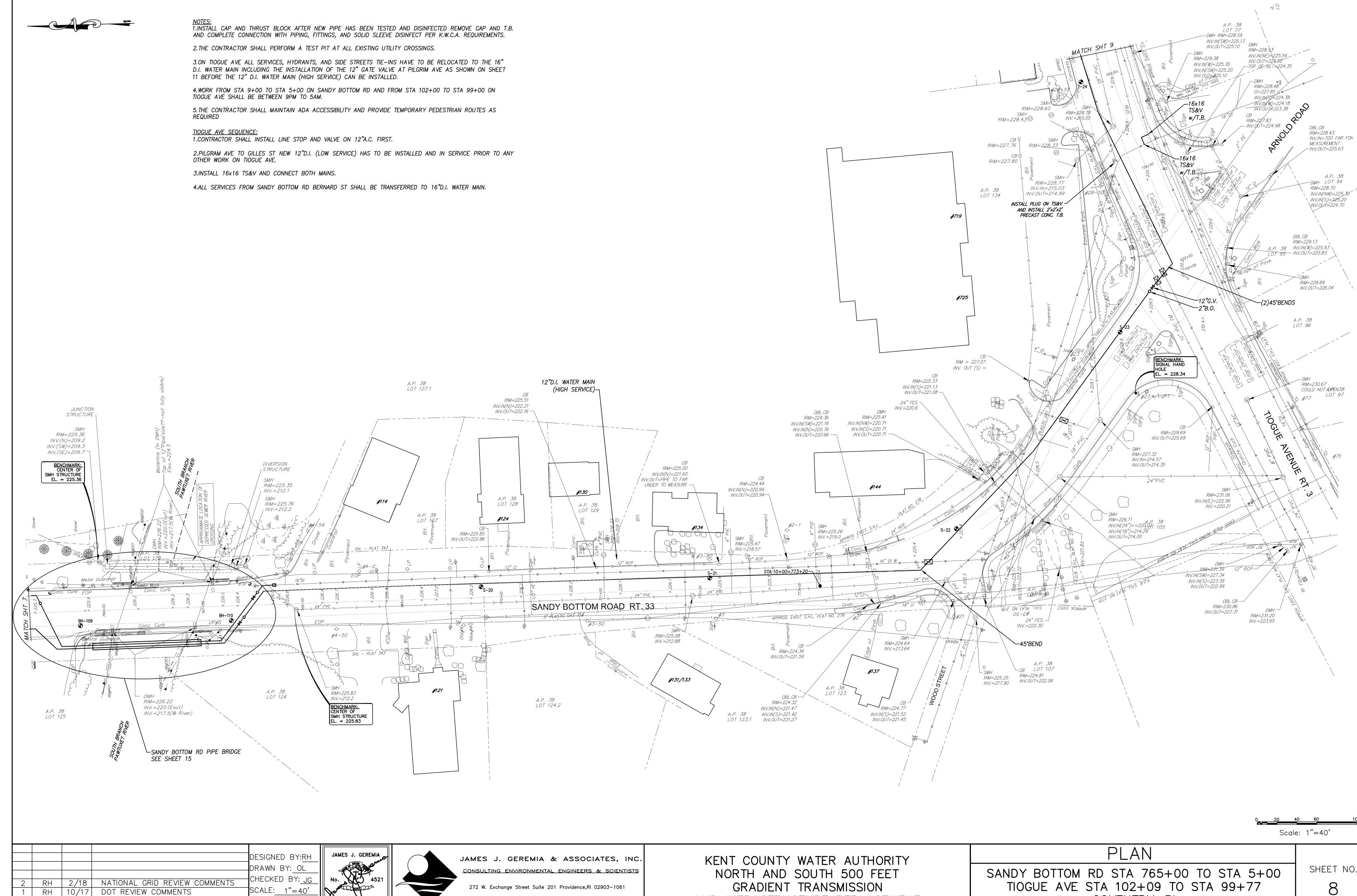
1. Kent County Water Authority - Gantry Plans

Plans for the Kent County Water Authority (KCWA) gantry structure are attached to this Addendum No. 4. The plans were received from KCWA in September 2018 and are provided for informational purposes only. The stage of these drawings is unknown and they may not reflect or be the final construction documents and therefore it is the responsibility of the users of these files to verify their accuracy, no guarantee to their accuracy is expressed, written or implied.

RI Department of Transportation

Administrator, Division of Project Management

ADDENDUM NO. 4



CADD FILE: 16-004 N&S 500' Sht 1-14 & 20-26.dwg DATE PRINTED: 8/22/18

Addendum No. 4

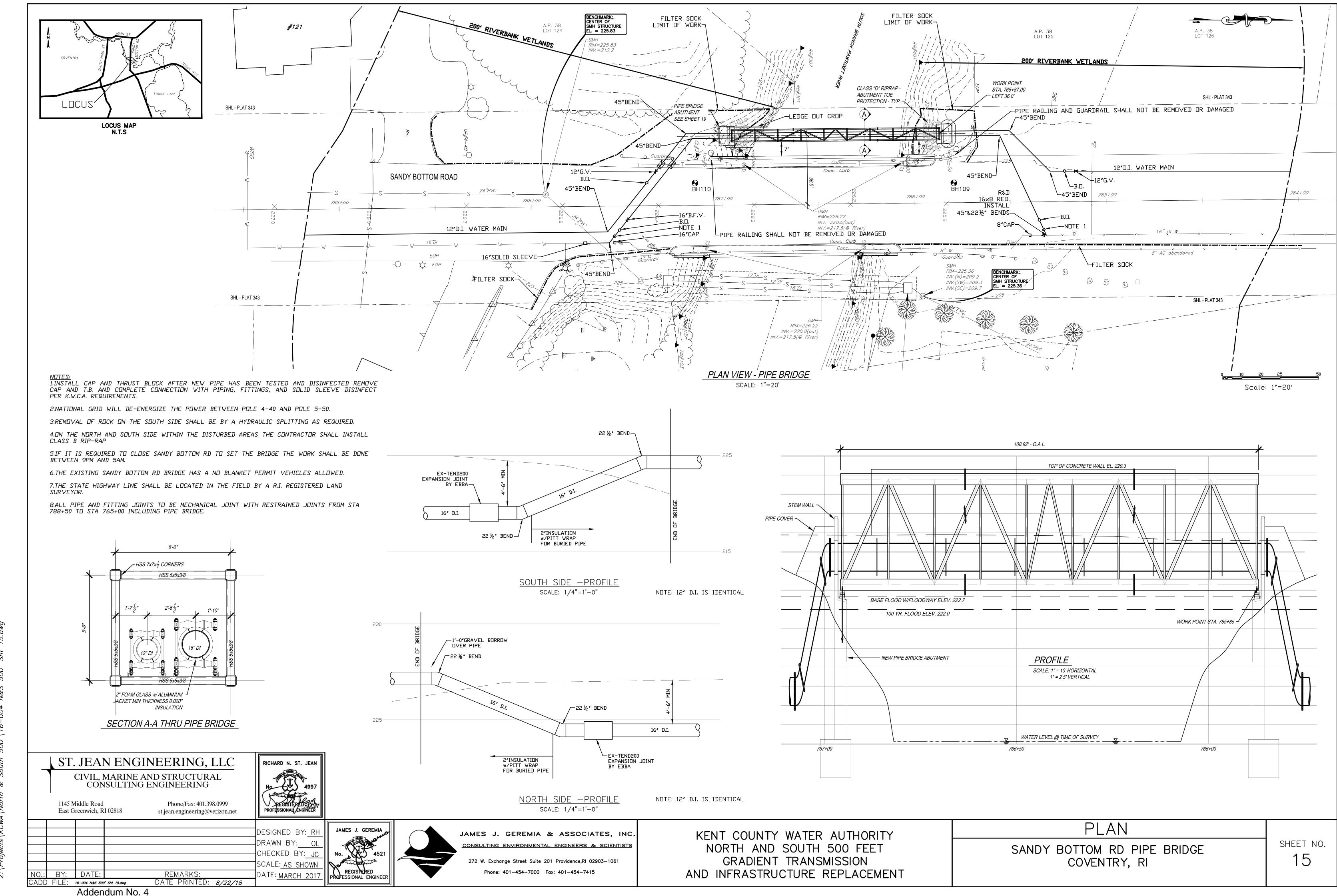
REMARKS:

DATE: <u>MAR 2017</u>

Phone: 401-454-7000 Fax: 401-454-7415

GRADIENT TRANSMISSION AND INFRASTRUCTURE REPLACEMENT

TIOGUE AVE STA 102+09 TO STA 99+77 COVENTRY, RI



17) (COUNTY) ALL 18 (COUNTY) 4 (C

- 2. ALL WORK SHALL COMPLY WITH LOCAL LAWS AND STATUTES AND THE REQUIREMENTS AND CONDITIONS OF ALL REGULATORY PERMITS ISSUED FOR
- THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS REGULATORY PERMITS AND ALL CONDITIONS OF THOSE PERMITS. THE CONTRACTOR IS ADVISED THAT THE REGULATORY PERMITS FOR THIS PROJECT MAY CONTAIN ADDITIONAL REQUIREMENTS THAT, AFTER ANY ADDENDUM, SUPERSEDE THE DRAWING NOTES. THE CONTRACTOR IS FURTHER ADVISED THAT IN THE CASE OF ANY DISCREPANCIES WITHIN THE CONTRACT DOCUMENTS FOUND BEFORE CONSTRUCTION, THE FINAL DECISION AS TO WHAT INFORMATION TAKES PRECEDENCE WILL BE MADE BY THE ENGINEER OF RECORD ON THE BASIS OF THAT INTENT.
- 4. ALL EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE LAYOUT, CONSTRUCTION AND FABRICATION OR ORDERING OF ANY CONSTRUCTION MATERIALS.
- 5. ALL SECTIONS AND DETAILS APPLY TO SAME AND SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE HEREIN.
- DAMAGE TO ANY PROPERTY, PRIVATE OR OF PUBLIC TRUST, OCCURRING DURING THE CONSTRUCTION BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE
- THE CONTRACTOR SHALL USE EQUIPMENT ADEQUATE IN SIZE, CAPACITY, AND NUMBERS, AND PROPERLY MAINTAINED WITH REGARD TO THE SAFETY OF OPERATOR, OTHER WORKMEN, AND GENERAL PUBLIC.
- THE CONTRACTOR SHALL PROTECT ALL WETLANDS AND COASTAL RESOURCES FROM INTRUSION BY TURBID WATERS, CONSTRUCTION DEBRIS, CONSTRUCTION EQUIPMENT, OR PERSONNEL DURING ALL WORK ACTIVITIES.
- 10. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS, LICENSES, CERTIFICATES OF INSPECTION, AND PAY ALL LEGAL FEES IN CONNECTION WITH THE WORK OF THIS CONTRACT. THE OWNER HAS OBTAINED NECESSARY REGULATORY PERMITS REQUIRED FOR THE WORK IN REGULATED AREAS. THE CONTRACTOR SHALL REQUEST COPIES OF THOSE REGULATORY PERMITS AND MAKE PROVISION IN THIS WORK AND IN THE COST OF THE WORK FOR ALL APPLICABLE CONDITIONS OF THOSE PERMITS. FAILURE TO CONSIDER ANY CONDITION OF THE REGULATORY PERMITS AS A PART OF THE BID SHALL NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO APPLY THOSE CONDITIONS TO HIS WORK AT NO ADDITIONAL COST TO THE OWNER.
- 11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT FROM DAMAGE ALL ABOVE AND BELOW GROUND UTILITIES AND, UTILITY STRUCTURES, PRIOR TO ANY WORK. THE CONTRACTOR SHALL NOTIFY DIG SAFE AND LOCAL UTILITIES TO VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO START OF ANY CONSTRUCTION.
- 12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE ALL LANDSCAPING, INCLUDING BUT NOT LIMITED TO LAWN, TREES, PLANTINGS, ETC. DAMAGED BY THE CONTRACTOR DURING THE COURSE OF THE PROJECT.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT & POSITIONING OF ALL PROPOSED STRUCTURES AS SHOWN ON THE PROJECT DRAWINGS.

CAST-IN-PLACE / PRE-CAST CONCRETE:

- CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 318, LATEST EDITION.
- CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE 4,000 PSI, IN ACCORDANCE WITH ASTM STANDARDS.
- 3. PORTLAND CEMENT: ASTM C150, TYPE II
- 4. AIR ENTRAIN ALL CONCRETE TO 5-6%.
- NO CHLORIDES SHOULD INTENTIONALLY BE ADDED. TOTAL WATER SOLUBLE CHLORIDE ION (CI) CONTENT OF THE CONCRETE PRIOR TO EXPOSURE SHOULD NOT EXCEED 0.10 PERCENT BY WEIGHT OF THE CEMENT FOR NORMAL REINFORCED CONCRETE AND 0.06 PERCENT BY WEIGHT FOR PRESTRESSED
- WATER-CEMENT RATIOS AND COMPRESSIVE STRENGTHS FOR THE THREE (3) EXPOSURE ZONES SHALL BE AS FOLLOWS:

<u>ZONE</u>	MAX. W/C RATIO	MIN. 28 DAY CYLINDER COMPRESSIVE STREN
SUBMERGED	0.45	4000 PSI
ATMOSPHERIC	0.40	4000 PSI

MAXIMUM SLUMP SHALL BE 4".

REINFORCING STEEL SHALL BE ASTM A615 GR. 60 HOT DIPPED GALVANIZED. REINFORCING STEEL SCHEDULED FOR WELDING SHALL BE ASTM A706. NOMINAL CONCRETE COVER FOR CAST-IN-PLACE CONCRETE OVER REINFORCEMENT SHALL BE AS FOLLOWS:

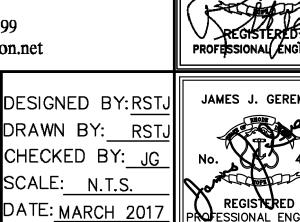
COVER OVER PRIMARY COVER OVER STIRRUPS, SPIRALS, AND TIES 2.5 in. (64 mm) ATMOSPHERIC 2.5 in. (64 mm) 2 in. (51 mm)

8. CONSTRUCTION JOINTS SHALL BE PREPARED WITH EXTRA CARE AS FOLLOWS:

- (a) CAREFUL PREPARATION OF THE SURFACE BY HEAVY WET ABRASIVE BLASTING OR HIGH-PRESSURE WATER JET TO REMOVE LAITANCE AND TO EXPOSE THE COARSE AGGREGATE. THE MAXIMUM SIZE AGGREGATE SHOULD BE EXPOSED TO ABOUT 25 PERCENT OF ITS NORMAL DIAMETER.
- (b) USE AN EPOXY-RESIN BONDING COMPOUND SPRAYED ON JUST BEFORE CONCRETING. APPLY IN STRICT CONFORMANCE TO MANUFACTURER'S
- RECOMMENDATIONS. SUPPLY MANUFACTURER, PRODUCT INFORMATION AND APPLICATION LITERATURE TO ENGINEER FOR APPROVAL PRIOR TO USE.
- (c) INCREASING THE CEMENT CONTENT OF THE CONCRETE AT THE START OF THE NEXT PLACEMENT.
- HOT DIPPED GALVANIZED REINFORCING BAR SPLICES SHALL OVERLAP A MINIMUM OF 56 BAR DIAMETERS FOR #7 AND LARGER BARS, 36 DIAMETERS FOR #6 AND SMALLER BARS, AND 28 BAR DIAMETERS FOR STIRRUPS, SPIRALS AND TIES, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL SUBMIT PLACING DRAWINGS AND SHOP DRAWINGS FOR ALL REINFORCEMENT USED IN THE PROJECT.
- 11. IN HOT WEATHER CONCRETE SHALL BE PROTECTED IN ACCORDANCE WITH ACI 305R-89.
- THE REPAIRING OF DAMAGED OR ABRADED SURFACES OF THE HOT DIPPED GALVANIZED COATING SHALL BE DONE WITH MATERIALS RECOMMENDED FOR THIS PURPOSE BY THE MANUFACTURER OF THE COATING MATERIALS AND APPROVED BY THE OWNER. REPAIR COATINGS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND DIRECTIONS.

ST. JEAN ENGINEERING, LLC

CONSULTING ENGINEERING



RICHARD N. ST. JEAN

ESSIONAL ENGINEER



JAMES J. GEREMIA & ASSOCIATES, INC. CONSULTING ENVIRONMENTAL ENGINEERS & SCIENTISTS

STRUCTURAL STEEL

CONSTRUCTION (AISC).

CONTRACT DOCUMENTS.

WELDER IN ACCORDANCE WITH AWS STANDARDS.

7. BOLTS: ASTM A325 WITH HEAVY HEXAGONAL HEADS

8. NUTS: ASTM A563 WITH HEAVY HEXAGONAL HEADS

WASHERS: ASTM F436 OVERSIZED WASHERS

DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE "MANUAL OF STEEL

2. ALL WELDING SHALL CONFORM TO THE "STRUCTURAL WELDING CODE FOR STEEL" (AWS D1.1) LATEST EDITION, AS ADOPTED BY THE AMERICAN WELDING SOCIETY (AWS). ALL WELDING SHALL BE PERFORMED BY A CERTIFIED

3. ALL CONNECTIONS SHALL BE DESIGNED BY A STEEL FABRICATOR EXCEPT THOSE SPECIFICALLY DETAILED ON THE

CONSTRUCTION - ASD", THIRTEENTH EDITION, AS ADOPTED BY THE AMERICAN INSTITUTE OF STEEL

4. OPEN ENDS OF ALL TUBE STEELS SHALL BE CLOSED WITH A $\frac{1}{4}$ " STEEL PLATE AND SEALED WELDED.

10. WELD RODS: ASTM A233, E70XX SERIES ELECTRODES AS REQ'D FOR CONDITIONS OF INTENDED USE

11. BOLTS, NUTS, & WASHERS: ALL BOLTS, NUTS, AND WASHERS SHALL BE HOT DIPPED GALVANIZED FOR EXTREME

SERVICE (MIN. 4 MIL THICKNESS U.O.N.) IN ACCORDANCE WITH ASTM A153 AND MEET MINIMUM TESTS OF ASTM

5. STRUCTURAL STEEL MATERIALS SHALL MEET THE FOLLOWING REQUIREMENTS:

6. <u>STEEL SECTIONS AND MISC</u>: ASTM A572 GRADE 50 UNLESS OTHERWISE NOTED

272 W. Exchange Street Suite 201 Providence,RI 02903-1061 Phone: 401-454-7000 Fax: 401-454-7415

KENT COUNTY WATER AUTHORITY NORTH AND SOUTH 500 FOOT GRADIENT TRANSMISSION INTERCONNECTION AND INFRASTRUCTURE REPLACEMENTS

PIPE BRIDGE CONSTRUCTION NOTES

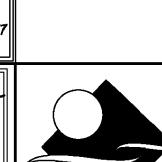
SANDY BOTTOM RD. PIPE BRIDGE COVENTRY, RI

SHEET NO.

CIVIL, MARINE AND STRUCTURAL

1145 Middle Road East Greenwich, RI 02818

Phone/Fax: 401.398.0999 st.jean.engineering@verizon.net

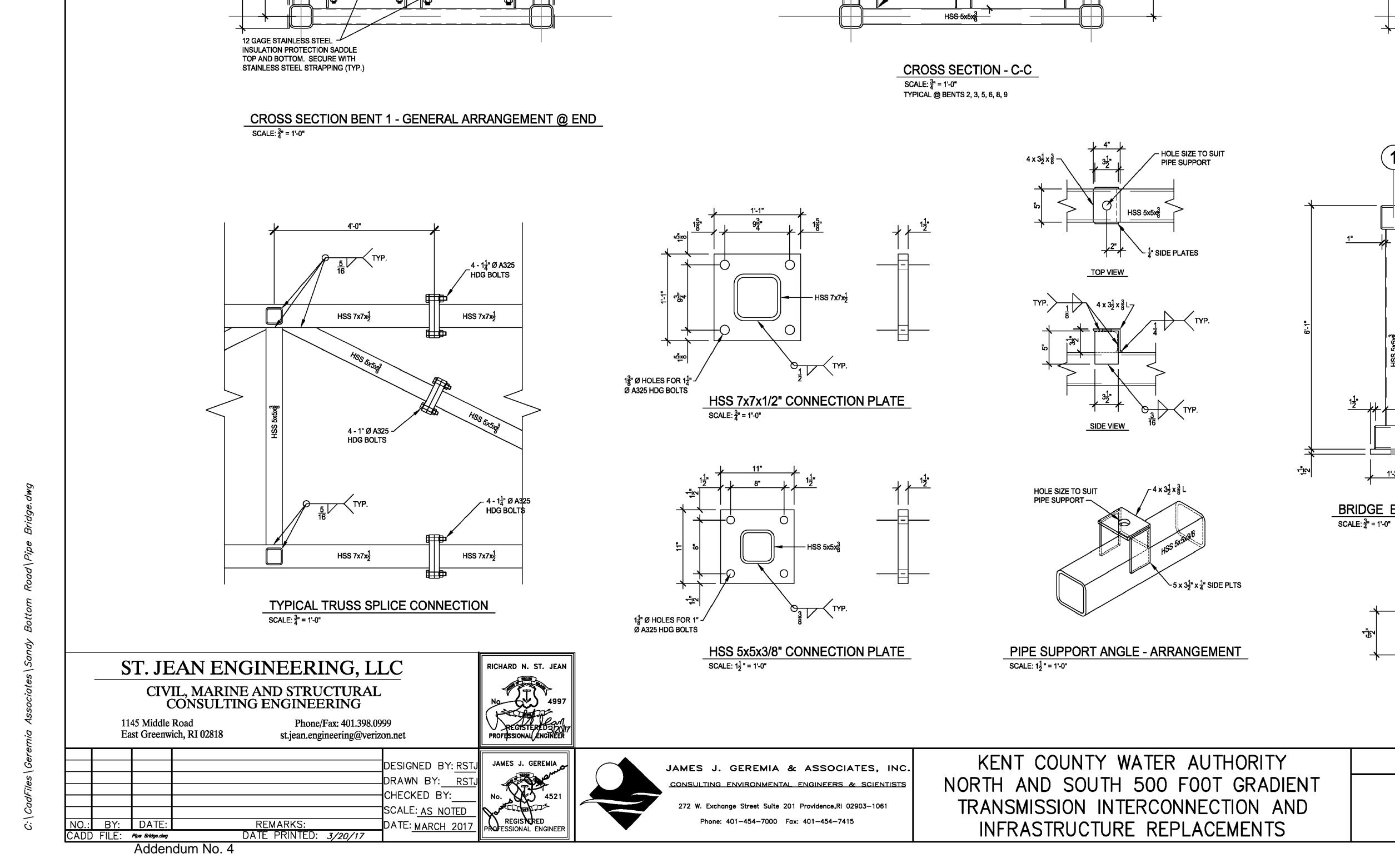


Addendum No. 4

BY:

C:\CadFiles\Geremia Associates\Sandv Bottom Road\Pipe

Addendum No. 4



(B)

-1" x $\frac{1}{8}$ " GW TYPE METAL GRATING H.D.G.

CAPACITY. 210 LB. PER FOOT WIDTH AT MID SPAN MIN. CONCENTRATED LOAD

- 12 GAGE H.D.G. STEEL PIPE COVERING PROTECTION SADDLE TOP

STAINLESS STEEL STRAPPING (TYP.)

2" FOAM GLASS INSULATION W/ALUMINUM JACKET MIN THICKNESS 0.020 INCHES

AND BOTTOM W/2" FOAM GLASS INSULATION. SECURE WITH

ADJUSTABLE H.D.G. PIPE SUPPORTS ON 1'-0" TO 3'-0"

FROM PIPE JOINTS

70 PSF MIN. UNIFORM LIVE LOAD

ATTACH GRATING AND EXPANDED METAL

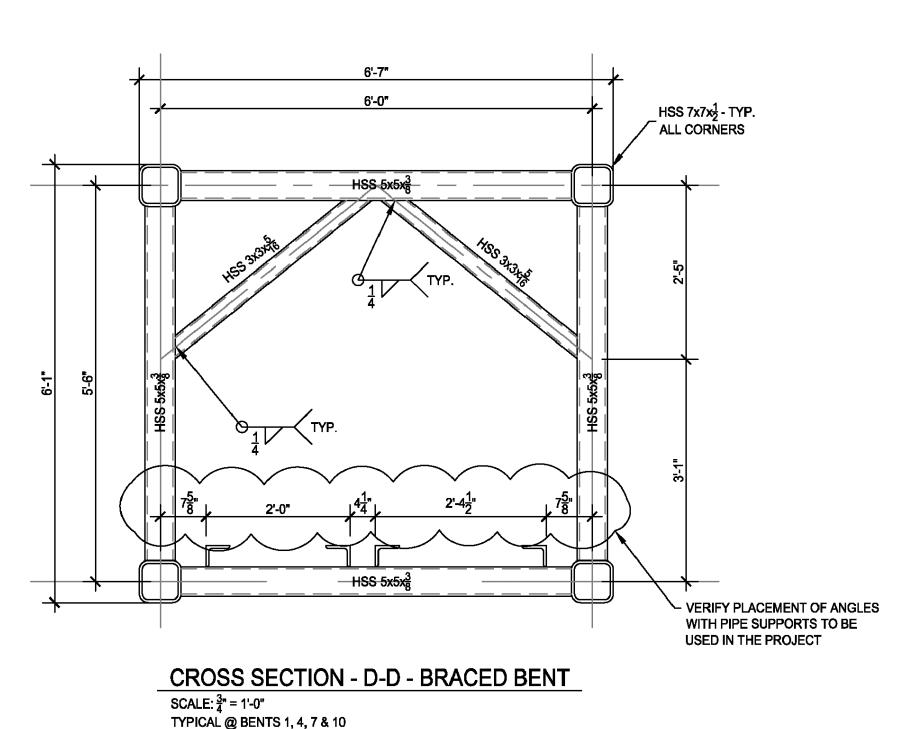
AROUND HSS 7x7x MEMBERS SPACED IN

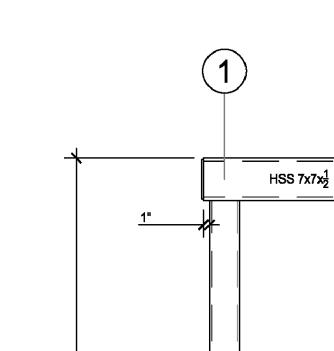
 $\frac{3}{4}$ " #9 STANDARD EXPANDED METAL, HOT DIPPED GALVANIZED

SCREENING - BOTH SIDES

SCREENING WITH 1/4" STAINLESS STEEL U-BOLTS

ACCORDANCE WITH GRATING/EXPANDED
METAL MANUFACTURER'S RECOMMENDATIONS





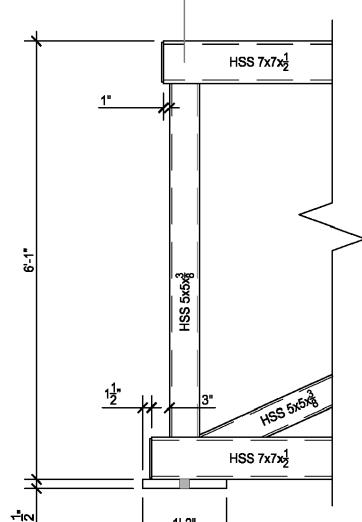
HSS $7x7x\frac{1}{2}$ - TYP.

ALL CORNERS

HSS 5x5x_₹

4 x 3¹/₂ x ³/₈ ANGLES FOR

PIPE SUPPORTS



BRIDGE END SUPPORT

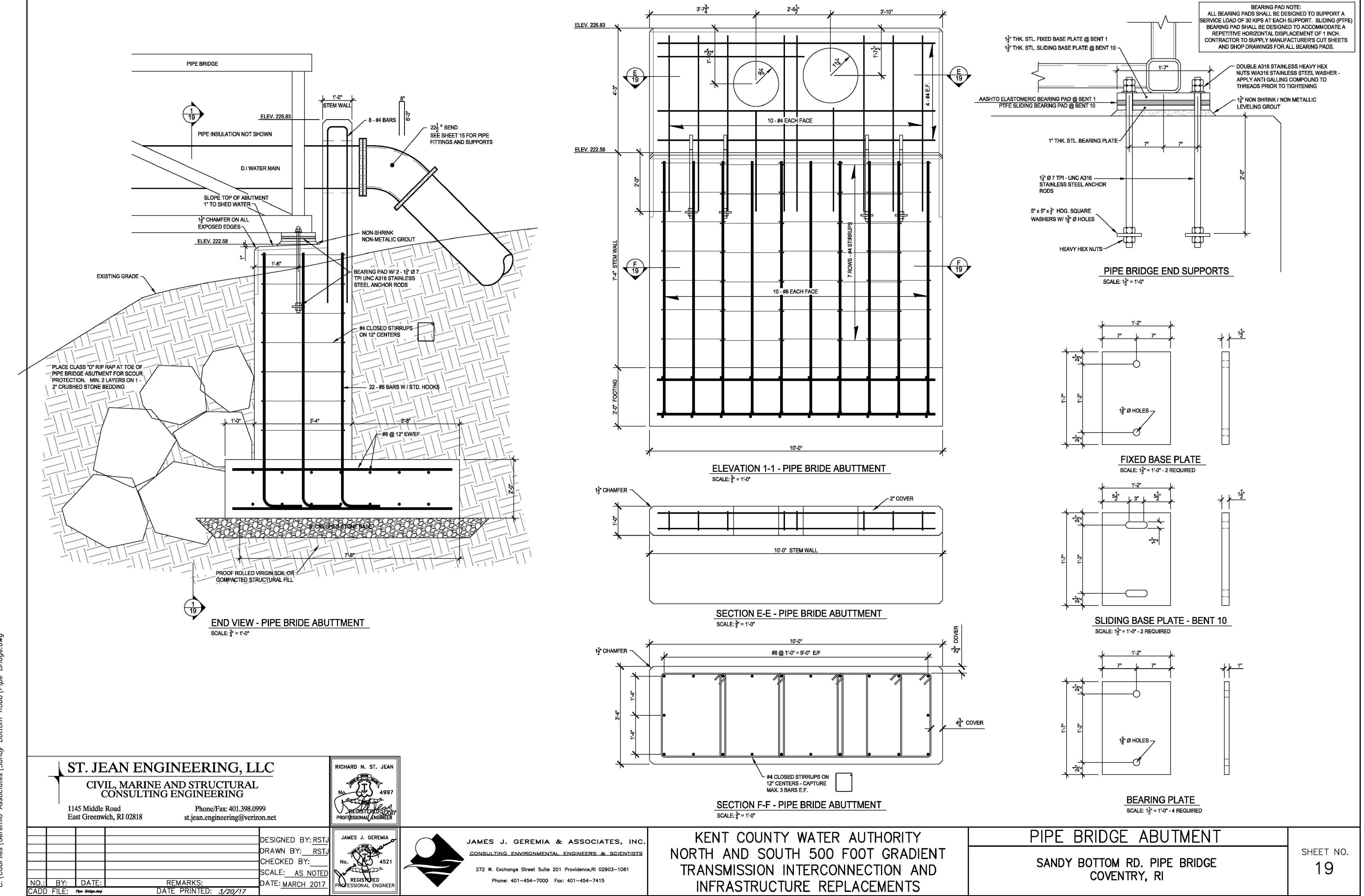
— ¼" END CLOSURE PLATE -HSS 7x7x¹/₂ -1 END CLOSURE PLATE BRIDGE END EXPANSION SUPPORT

HSS 7x7x¹/₂

END CLOSURE PLATE

PIPE BRIDGE DETAILS SANDY BOTTOM RD. PIPE BRIDGE COVENTRY, RI

SHEET NO.



C. \ CodEiloc \ Coromin Acconintec \ Cond. Dottom Dod \ Ding D.

Addendum No. 4