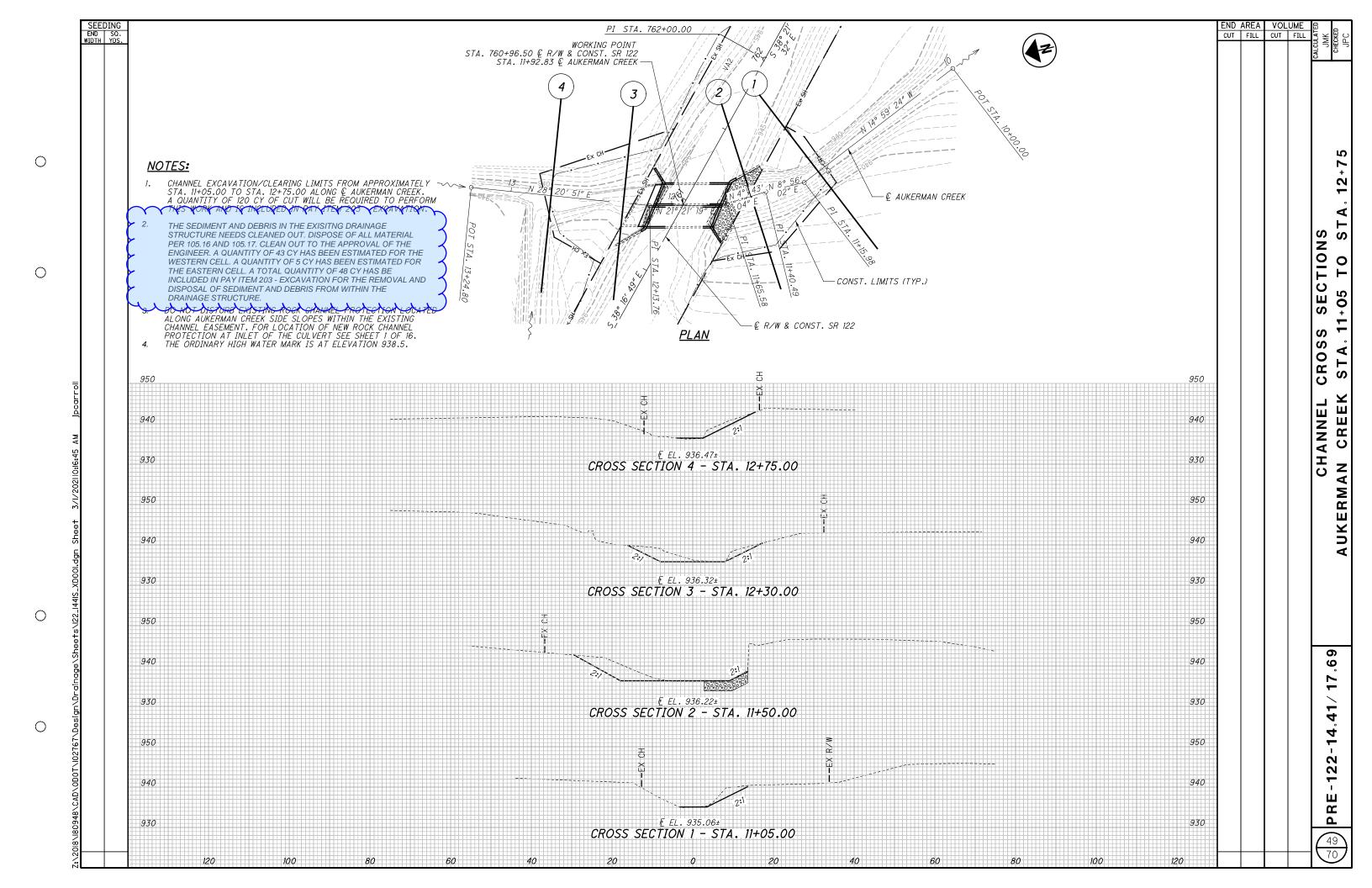
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							56.25				56.25	606	15350	<i>56.25</i>	FT	GUARDRAIL, TYPE MGS WITH SOCKETED POSTS		



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2 / 19

51

70

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

07/17/2015 AS-1-15 DATED (REVISED) AS-2-15 DATED (REVISED) 01/18/2019

DBR-3-11 DATED (REVISED) 07/15/2011 DATED (REVISED) EXJ-4-87 01/19/2018

AND THE FOLLOWING SUPPLEMENTAL SPECIFICATION: DATED (REVISED) 04/20/2018

#### **DESIGN SPECIFICATIONS:**

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION, 2002, AND THE ODOT BRIDGE DESIGN MANUAL, 2004, INCLUDING REVISIONS THROUGH JULY 2018.

#### **DESIGN LOADING:**

HS20-44 (CASE II) AND THE ALTERNATE MILITARY LOADING. FUTURE WEARING SURFACE (FWS) OF O PSF

#### **DESIGN DATA:**

CONCRETE QC2 - COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE)

CONCRETE QC1 - COMPRESSIVE STRENGTH 4000 PSI (SUBSTRUCTURE)

REINFORCING STEEL - ASTM A615 OR A996, GRADE 60, MINIMUM 60,000 PSI YIELD STRENGTH.

PROPOSED STRUCTURAL STEEL - ASTM A709 GRADE 50 YIELD STRENGTH 50,000 PSI

## **DECK PROTECTION METHOD:**

EPOXY COATED REINFORCING STEEL 21/2" CONCRETE COVER

SEAL CONCRETE SURFACES USING SOLUBLE REACTIVE SILICATE

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN: THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, EXCEPT FOR WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES. HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS

SEE THE REMOVAL PLANS ON 5 AND 6 OF 19 FOR ADDITIONAL 

#### J-WEIR CONCRETE BLOCKS

CONCRETE BARRIER BLOCK (OR CONCRETE BARRICADE, DEPENDING ON THE CONCRETE COMPANY) SHOULD BE USED FOR THE J-WEIR BLOCKS. THE BLOCKS ARE 2'X2'. THE PLANS DEPICT A 3' LENGTH, BUT LONGER LENGTHS CAN BE UTILIZED IF THE 3' LENGTH IS NOT AVAILABLE. GROOVES/BUMPOUTS IN THE BLOCKS ARE ACCEPTABLE.



PROTECTION OF STEEL SUPPORT SYSTEMS:

BEFORE DECK SLAB CUTTING IS PERMITTED, DRAW THE OUTLINE OF PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK ON THE SURFACE OF DECK. DRILL SMALL DIAMETER PILOT HOLES 2 INCHES OUTSIDE THESE LINES TO CONFIRM THE LOCATION OF FLANGE EDGES. DECK CUTS OVER OR WITHIN 2 INCHES OF FLANGE EDGES SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF DECK SLAB REINFORCING STEEL, CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND THE FULL DEPTH OF THE DECK. PERFORM WORK CAREFULLY DURING CUTTING OF THE DECK SLAB TO AVOID DAMAGING STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE. REPLACE OR REPAIR STEEL MEMBERS DAMAGED BY THE DECK SLAB CUTTING OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING REPAIR.

#### REMOVAL METHODS:

THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS, FOR REMOVALS OVER STRUCTURAL MEMBERS (PRESTRESSED BOX BEAM, I-BEAM, STEEL BEAM, STEEL GIRDER, ETC), THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. REMOVAL METHODS OVER STRUCTURAL MEMBERS SHALL ENSURE ADEQUATE DEPTH CONTROL AND PREVENT NICKING OR GOUGING THE PRIMARY STRUCTURAL MEMBERS.

DUE TO THE POSSIBLE PRESENCE OF ATTACHMENTS (E.G., FINISHING MACHINE, SCUPPER AND FORM SUPPORTS, ETC.) TO EXISTING STRUCTURAL MEMBERS, PERFORM WORK CAREFULLY DURING DECK REMOVAL TO AVOID DAMAGING STRUCTURAL MEMBERS THAT ARE TO REMAIN. REPLACE OR REPAIR STRUCTURAL MEMBERS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTORS APPROVAL BEFORE PERFORMING REPAIR.

#### DECK REMOVALS - COMPOSITE DECK DESIGNS - STEEL SUPERSTRUCTURES:

DUE TO THE PRESENCE OF WELDED STUDS TO THE EXISTING STRUCTURAL STEEL, SUBMIT A DETAILED PROCEDURE OF THE DECK REMOVAL TO THE ENGINEER AT LEAST 7 DAYS BEFORE CONSTRUCTION BEGINS. DEPARTMENT ACCEPTANCE IS NOT REQUIRED. THE PROCEDURE SHALL INCLUDE ALL DETAILS, EQUIPMENT AND METHODS TO BE USED FOR REMOVAL OF THE CONCRETE OVER THE FLANGES AND AROUND THE STUDS. REPLACE OR REPAIR MAIN STEEL AND STUDS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING REPAIR.

## MEASUREMENT & PAYMENT:

THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER

# **EXISTING STRUCTURE VERIFICATION:**

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05. 105.02

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

#### ITEM 509 - REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN:

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE. REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE DEPARTMENT.

### ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN:

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS.

SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH CMS 501.05.

IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE II. MATERIALS: SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH CMS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE ABUTMENT JACKING ASSEMBLIES. ALL SUBSTRUCTURES SHALL BE JACKED SIMULTANEOUSLY. PRIOR TO JACKING, THE EXISTING BEAM ENDS AT THE ABUTMENTS SHALL BE CLEANED FREE FROM RUST AND PREPARED FOR PAINT TOUCH UP PER CMS 514 AND INCLUDED WITH ITEM 514 - FIELD PAINTING, MISC .: BEAMS ENDS AT ABUTMENTS FOR PAYMENT.

SEE THE PIER JACKING PLANS ON 9 AND 10 OF 19 FOR ADDITIONAL DETAILS.

THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS.

THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

ITEM 514 - FIELD PAINTING, MISC.: BEAMS ENDS AND REPAIR: THIS WORK CONSISTS OF CLEANING AND PAINTING THE LAST 4 FT. OF THE EXISTING EXTERIOR STEEL BEAMS AT EACH ABUTMENT. IN ADDITION, IF ANY END CROSSFRAME MEMBERS OR STEEL FROM THE MOMENT PLATE REPAIRS NEEDS CLEANED AND PAINTED, AFTER JACKING HAS OCCURRED THIS WORK SHALL BE INCLUDED. THE COLOR SHALL REMAIN THE SAME AS THE EXISTING BEAMS AND THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE COLOR AND REPAIR LOCATIONS FROM THE ENGINEER.

THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE PAINT SYSTEM SHALL BE OZEU. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 514 - FIELD PAINTING, MISC.: BEAMS ENDS AND REPAIR.

### ITEM 844 - PATCHING CONCRETE WITH GALVANIC ANODE PROTECITON, AS PER PLAN:

PRIOR TO THE SURFACE CLEANING SPECIFIED AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

#### <u>ITEM 519 - SPECIAL - COMPOSITE FIBER WRAP SYSTEM:</u> I. DESCRIPTION:

THIS WORK CONSISTS OF PREPARING EXISTING SOUND CONCRETE SURFACES AND DESIGNING THE SYSTEM TO MEET THE REQUIREMENTS IN THE PLANS, FURNISHING AND INSTALLING FIBER REINFORCED POLYMER (FRP) COMPOSITE WRAP SYSTEMS TO REPAIR OR RETROFIT EXISTING CONCRETE MEMBERS AT THE LOCATIONS SHOWN IN THE PLANS. FIBER SYSTEMS MUST BE CARBON (CFRP).

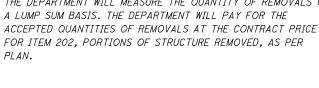
FURNISH FRP COMPOSITE WRAP SYSTEMS THAT HAVE BEEN EVALUATED BY THE INTERNATIONAL CODE COUNCIL EVALUATION SERVICE (ICC-ES) IN ACCORDANCE WITH AC125 - ACCEPTANCE CRITERIA FOR CONCRETE AND REINFORCED AND UNREINFORCED MASONRY STRENGTHENING USING FIBER- REINFORCED, COMPOSITE SYSTEMS. SELECT FROM PRODUCTS LISTED UNDER EVALUATION REPORTS CSI - DIVISION 03 01 00 MAINTENANCE OF CONCRETE, PROVIDED ON THE ICC-ES WEBSITE: WWW.ICC-ES.ORG.

ALL SYSTEM COMPONENTS DELIVERED TO THE PROJECT SHALL BE LABELED IN ACCORDANCE WITH THE FRP SYSTEM'S ICC-ES EVALUATION REPORT SECTION 7.0.

### III. SUBMITTALS:

PROVIDE THE FOLLOWING INFORMATION TO THE ENGINEER.

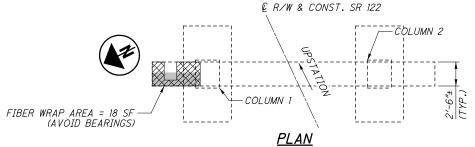
- A. ENGINEERED DRAWINGS IN ACCORDANCE WITH CMS 501.05.B. AS A MINIMUM, ACCEPTABLE DRAWINGS SHALL INCLUDE:
- 1. IDENTIFICATION OF THE FRP SYSTEM USING THE PRODUCT NAMES OF EACH OF THE CONSTITUENT MATERIALS.
- 2. DESIGN DATA FOR THE FRP SYSTEM INCLUDING: MINIMUM ULTIMATE TENSILE STRENGTH; MINIMUM TENSILE MODULUS AND CORRESPONDING ELONGATION; AND LAYER THICKNESS.
- 3. GOVERNING SPECIFICATION FOR FRP SYSTEM DESIGN.
- 4. PLAN, ELEVATION AND CROSS-SECTIONAL VIEWS OF THE CONCRETE MEMBERS AS NECESSARY TO COMPLETELY DESCRIBE THE WORK.

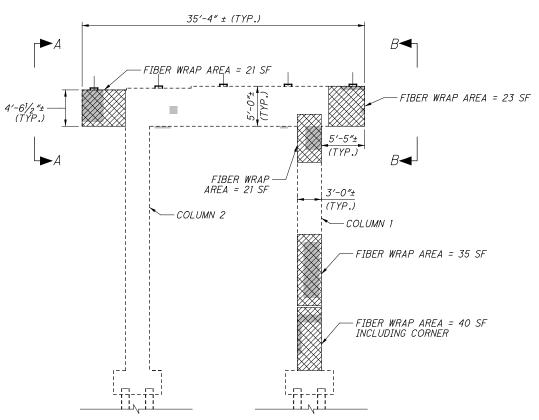


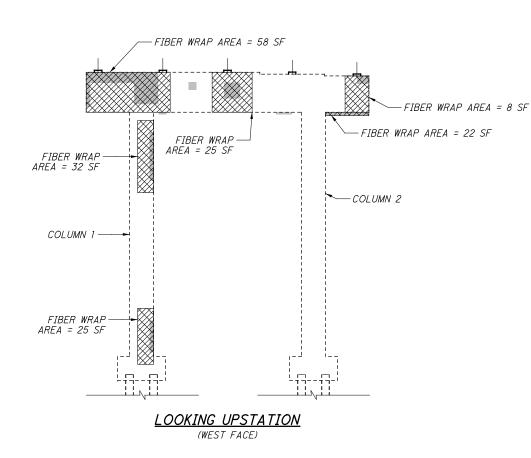
FIBER WRAP
AREA = 7 SF

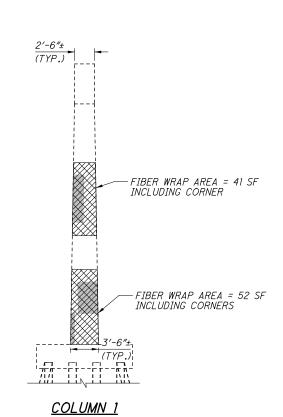
SECTION A-A

SECTION B-B









# NOTES:

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1. ONCE THE CONCRETE REPAIRS HAVE ACHIEVED THE SPECIFIED CURE AND STRENGTH, THE CROSSFRAME REMOVAL AND JACKING OPERATION CAN OCCUR TO REPAIR THE CONCRETE DIRECTLY BENEATH THE BEARINGS. DO NOT LOWER THE SUPERSTRUCTURE ONTO THE BEARING AREAS UNTIL THE BEARINGS HAVE BEEN REPLACED AND THE SPECIFIED CURE TIME AND STRENGTH HAVE BEEN ACHIEVED. SEE SHEET 7 OF 19 FOR CURE TIME AND STRENGTH.

<u>LOOKING DOWNSTATION</u>

(EAST FACE)

2. AFTER THE CONCRETE HAS ACHIEVED 30 DAYS CURE TIME, THE FIBER WRAP SYSTEM MAY BE INSTALLED.

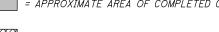
MEASURED AREAS TO BE REPAIRED ARE APPROXIMATE WITH AREAS
ABOVE EXISTING GROUND SHOWN.

4. AFTER ALL THE FIBER WRAPPING IS COMPLETE AND THE VACKING
ASSEMBLIES HAVE BEEN REMOVED, SEAL THE ENTIRE PIER I CAP AND
BOTH PIER I COLUMNS DOWN TO ELEVATION 812.50, WHICH IS 2 FEET
ABOVE THE OHWM, WITH EPOXY-URETHANE, FEDERAL COLOR 17778.

# LEGEND:

= APPROXIMATE AREA OF COMPLETED CONCRETE REPAIR

= APPRXOIMATE AREA TO BE FIBER WRAPPED PER ITEM
519 - SPECIAL - COMPOSITE FIBER WRAP SYSTEM



PRE-122-14.41/17.69 PID No. 102767

WRAP DETAILS PRE-122-1769 AUKERMAN CREEK

PIER 1 FIBER V BRIDGE NO. F SR 122 OVER AL

fishbeck

