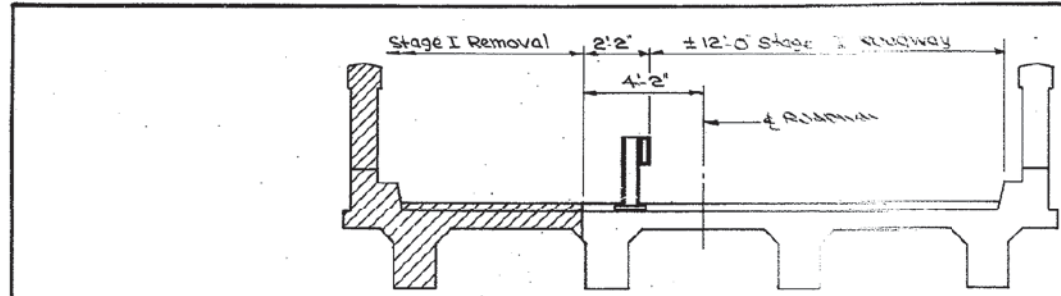
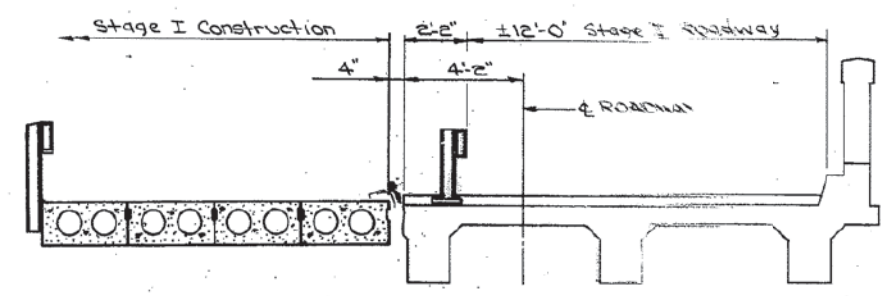


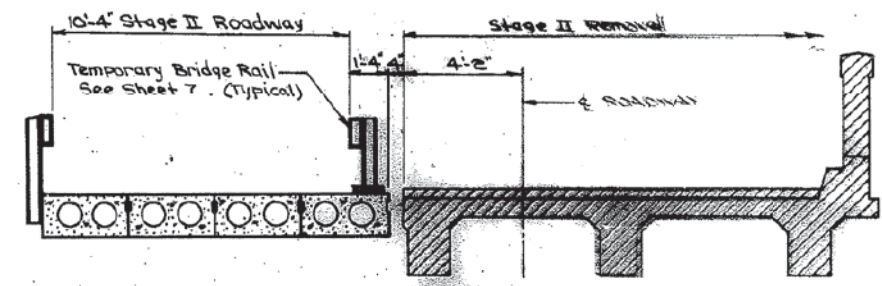
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|-----------------|---------|-----------|--------------|-----------|--------|
| SHEET NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | SHEETS |
| F.A.S. RTE. 200 | 141BR | WHITESIDE | 10 | 6 | 9 |



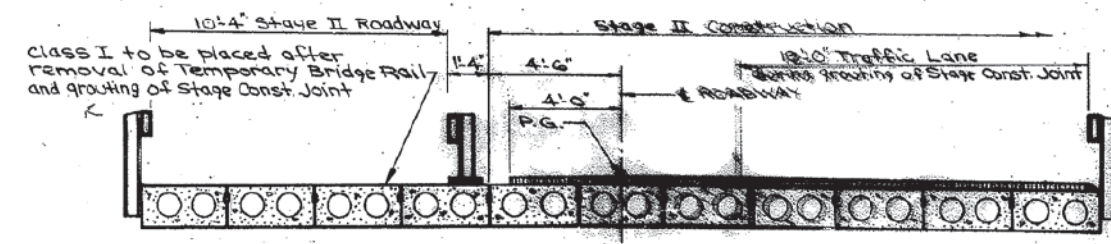
*STAGE I REMOVAL



*STAGE I CONSTRUCTION



*STAGE II REMOVAL



*STAGE II CONSTRUCTION

| | | | |
|------------------------------------------|------------------|------------|--------------------|
| DONOHUE ENGINEERS & ARCHITECTS | | | |
| DESIGN | DESIGNED BY: RAC | CHECKED | CHECKED BY: L.N.F. |
| BY: P.D.Z. | BY: J.T.T. | BY: J.A.R. | BY: L.N.F. |
| PROJECT NUMBER 11310201 | | | |

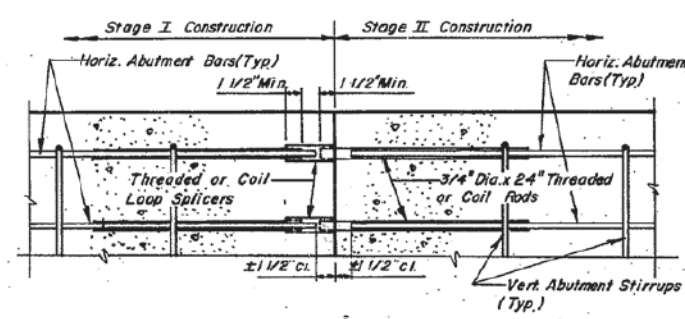
*LOOKING SOUTH

NOTES

THREADED OR COIL RODS SHALL BE 3/4" DIA. STEEL, WITH A MINIMUM YIELD STRENGTH OF 60 KSI. COST TO BE INCIDENTAL TO REINFORCING BARS.
 SPLICERS SHALL BE OF AN APPROVED TYPE AND SHALL DEVELOP THE YIELD STRENGTH OF THE THREADED OR COIL RODS (MINIMUM ROOT DIAMETER OF THREADS EQUAL TO 0.625").
 THREADED OR COIL RODS SHALL BE THREADED INTO THE SPLICERS A MINIMUM OF 1-1/2".
 SPLICER ASSEMBLY MATERIALS SHALL BE AS FOLLOWS:
 SPLICERS: AASHTO M-169,
 WIRE CONNECTORS: STEEL ASTM A510 GRADE 1008.
 OTHER SYSTEMS OF SIMILAR DESIGN MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL. APPROVAL SHALL BE BASED ON CERTIFIED TEST RESULTS FROM AN APPROVED TESTING LABORATORY THAT THE PROPOSED ANCHORAGE SATISFIES THE FOLLOWING REQUIREMENTS (PER ANCHOR):
 (1) MINIMUM TENSION PULL-OUT STRENGTH = 10,124 Lbs.
 (2) MINIMUM SHEAR STRENGTH = 7,365 Lbs.
 VALUES ARE BASED ON 28 DAY COMPRESSIVE STRENGTH OF CONCRETE = 3500 PSI.

GENERAL NOTES

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 OR M-53, GRADE 60 UNLESS NOTED OTHERWISE.
 PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
 THE TOP SURFACE OF THE BEAMS SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 505.06 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE SURFACE SHALL NOT BE ROUGHENED BY BROODING. THE FINISHED SURFACE SHALL BE FREE OF DEPRESSIONS OR HIGH SPOTS WITH SHARP CORNERS, AND THE TOP EDGE OF KEYS SHALL BE ROUNDED OR CHAMFERED A MINIMUM OF 1/4".
 A CALCIUM NITRITE CORROSION INHIBITOR, AS COVERED IN THE SPECIAL PROVISIONS, SHALL BE USED IN THE CONCRETE FOR "PRECAST PRESSED CONCRETE DECK BEAMS".
 EXPANSION GUARDS WHICH ARE NOT CAST IN THE PRECAST UNIT SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH ARTICLE 503.07(C) OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF "STRUCTURAL STEEL".
 ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH TWO COATS OF BASIC LEAD SILICO CHROMATE PAINT.
 SHOULDER TRANSITION TO WINGWALL SHALL BE SHAPED WITH BROKEN CONCRETE. COST INCIDENTAL.
 EXPANSION BOLTS SHALL CONSIST OF APPROVED EXPANSION ANCHORS, PROVIDING MINIMUM CERTIFIED PROOF LOAD = 4080 LBS. AND 3/4" DIA. X 12" HOOKED BOLTS.



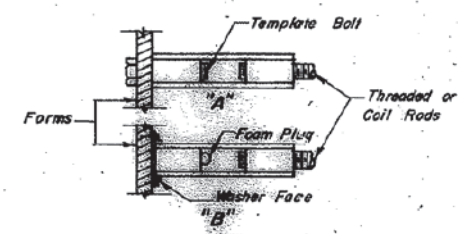
SECTION THRU ABUTMENT

ONE PIECE



WELDED SECTIONS

SPLICER ALTERNATIVES
 30 Req'd; Cost incidental to Reinforcement Bars.



INSTALLATION AND SETTING METHODS

"A"-Set Splicer by means of a Template Bolt.
 "B"-Set Splicer by Nailing to Wood Forms or Cementing to Steel Forms.

STAGE CONST. JOINT REINFORCEMENT SPLICE

TOTAL BILL OF MATERIALS

| Item | Unit | Super | Abuts | Total |
|----------------------------------------------------|-------|-------|-------|-------|
| Removal of Existing Superstructures | Each | 1 | | 1 |
| Concrete Removal | Cu Yd | | 10 | 10 |
| Expansion Joints | Each | | 62 | 62 |
| Asphalt Concrete Surface Course Mixture D, CLASS I | Tons | 14 | | 14 |
| Asphalt Concrete Bridge Slab | Sq Ft | 299 | | 299 |
| Structural Steel | Sq Yd | | 37 | 37 |
| Precast Concrete Deck Beams (17 Beams) | Sq Ft | 1404 | | 1404 |
| Asphalt Concrete Surface Course | L.F. | 425 | | 425 |
| Class II Concrete | Cu Yd | 0.7 | 23.7 | 24.4 |
| Reinforcement Bars | Lbs | 120 | 2830 | 2950 |
| Waterproofing Membrane System | Sq Yd | 150 | | 150 |
| Steel Bridge Type 51 | L.F. | 167 | | 167 |
| Temporary Bridge Rail | L.F. | 43 | | 43 |
| Name Plate | Each | 1 | | 1 |
| Structural Steel | Lbs | 2310 | | 2310 |
| Preformed Joint Seal (2 1/2") | L.F. | 33 | | 33 |
| Epoxy Crack Sealing | L.F. | | 49 | 49 |

| REVISIONS | |
|-----------|------|
| NO. | DATE |
| 1 | |

STAGE CONSTRUCTION
 F.A.S. RTE. 200 (ILL 172)
 OVER COUNTY DITCH NO. 1
 F.A.S. RTE. 200 SECTION 141 BR
 WHITESIDE COUNTY
 STA. 87+ 82.00