

ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF 1 LANE OF TRAFFIC IN THE SOUTHBOUND AND 2 LANES IN THE NORTHBOUND DIRECTION ON US 35 SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, ITEM 615 ROADS FOR MAINTAINING TRAFFIC. A MINIMUM OF 1 LANE OF TRAFFIC IN THE WESTBOUND AND 2 LANES IN THE EASTBOUND DIRECTION SR 32 SHALL BE MAINTAINED AT ALL TIMES. NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEAR'S	LABOR DAY
MEMORIAL DAY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT TIME	ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00AM FRIDAY
THANKSGIVING	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$50 PER MINUTE FOR THE TIME THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

- ITEM 614, WORK ZONE EDGE LINE, CLASS 1, 6", 740.06, TYPE 1 0.56 MILES
- ITEM 614, WORK ZONE DOTTED LINE, CLASS 1, 6", 740.06, TYPE 1 0.27 MILES

ANY PAVEMENT RESURFACING REQUIRED DUE TO CONSTRUCTION ACTIVITIES, INCLUDING INSTALLATION OF ANCHORED PORTABLE BARRIER, SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

MAINTAINING TRAFFIC SEQUENCE

THE S.R. 32 BRIDGES SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES. SHORT-TERM LANE AND/ OR SHOULDER CLOSURES, PER SCDS MT-95.40 AND MT-95.45, MAY BE REQUIRED FOR EPOXY INJECTION ABOVE THE BEAM. THE CONTRACTOR SHALL COORDINATE WITH ODOT TWO (2) WEEKS PRIOR TO PERFORMING THIS WORK.

MAINTAINING TRAFFIC SEQUENCE, CONTINUED

ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON U.S. 35 SOUTHBOUND. ALL LANES WILL BE 11' TYPICAL WITH 2'-0" SHOULDERS AND 2' PORTABLE BARRIERS UNLESS OTHERWISE NOTED ON THE PLANS. BELOW IS THE CONSTRUCTION SEQUENCE FOR THE PROJECT:

PHASE 1

THE CONTRACTOR SHALL PERFORM ALL HEAT STRAIGHTENING WORK USING SHORT-TERM TRAFFIC CONTROL MEASURES. ONE LANE OF TRAFFIC MUST BE MAINTAINED AT ALL TIMES.

PHASE 2

THE CONTRACTOR SHALL INSTALL PROPOSED STIFFENERS, PLACE TEMPORARY SUPPORTS UNDER BEAM #1, AND REPLACE THE REQUIRED PORTION OF THE EXISTING BEAM UTILIZING THE TRAFFIC SETUP DETAILED WITHIN THESE PLANS.

PLACE PORTABLE BARRIERS REQUIRED TO FACILITATE NECESSARY REPAIRS TO THE STRUCTURE OVER THE RIGHT LANE OF U.S. 35 SOUTHBOUND WESTBOUND. CONTRACTOR SHALL CLOSE THE RIGHT SOUTHBOUND LANE, AND THEN SHIFT TRAFFIC ONTO A PORTION OF THE LEFT DRIVE LANE AND SHOULDER.

PHASE 3

THE CONTRACTOR SHALL PERFORM ALL REMAINING WORK USING SHORT-TERM CONTROL MEASURES. ONE LANE OF TRAFFIC MUST BE MAINTAINED AT ALL TIMES.

DO NOT EXCEED THE PERMITTED LANE CLOSURE TIMES POSTED ON THE DEPARTMENT'S PERMITTED LANE CLOSURE WEB SITE OR THE LANE VALUE CONTRACT TABLE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SUBMIT A LANE CLOSURE APPLICATION REQUEST FORM TO THE ENGINEER IN WRITING, THREE (3) WORKING DAYS IN ADVANCE OF THE LANE(S) CLOSURE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. NO LANE CLOSURES WILL BE PERMITTED DURING HOLIDAYS OR SPECIAL EVENTS, SEE SPECIAL EVENTS / HOLIDAY NOTE. MONITOR TRAFFIC FLOW AND RE-OPEN LANES IF ANY BACKUP BEGINS TO OCCUR.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS UNIDIRECTIONAL

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS UNIDIRECTIONAL, CONTINUED

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

SHOULDER RUMBLE STRIPS

TRAFFIC SHALL NOT BE REQUIRED TO USE ANY PAVED BERMS FOR MAINTENANCE OF TRAFFIC OPERATIONS UNTIL THE EXISTING RUMBLE STRIPS HAVE BEEN REMOVED AND REPLACED WITH ITEM , ASPHALT CONCRETE SURFACE COURSE, TYPE , PG64-22. QUANTITIES HAVE BEEN PROVIDED BELOW TO PLANE THE EXISTING SHOULDERS 2 FEET WIDE AND 1 INCH DEEP IN THE AREA WHERE THE EXISTING RUMBLE STRIPS OCCUR. THIS AREA SHALL RECEIVE AN APPLICATION OF ITEM 407 TACK COAT PRIOR TO REPLACEMENT OF THE ASPHALT CONCRETE SURFACE COURSE. ACCEPTANCE OF THE ASPHALT SURFACE COURSE SHALL IN ACCORDANCE WHIT C&MS 449.

THE QUANTIITES BELOW ARE BASED ON THE FOLLOWING:
STA. 702+50.00 TO STA. 719+00.00 (SOUTHBOUND LEFT LANE)

ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, (1" DEEP) (1650 FT. x 2 FT. / 9) = 367 SY

ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG64-22 (1" THICK) (1650 FT. x 0.0833 FT. x 2 FT. / 27) = 11 CY

ITEM 407, TACK COAT (@ 0.085 GAL PER SQ. YD.) ((1650 FT. x 2 FT. / 9) x 0.085) = 32 GAL

ITEM 618, RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE) = 1650 FT.

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

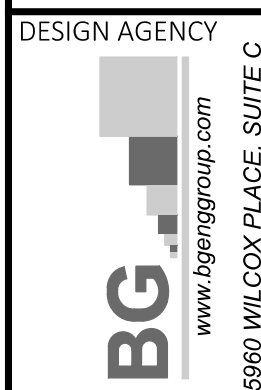
BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

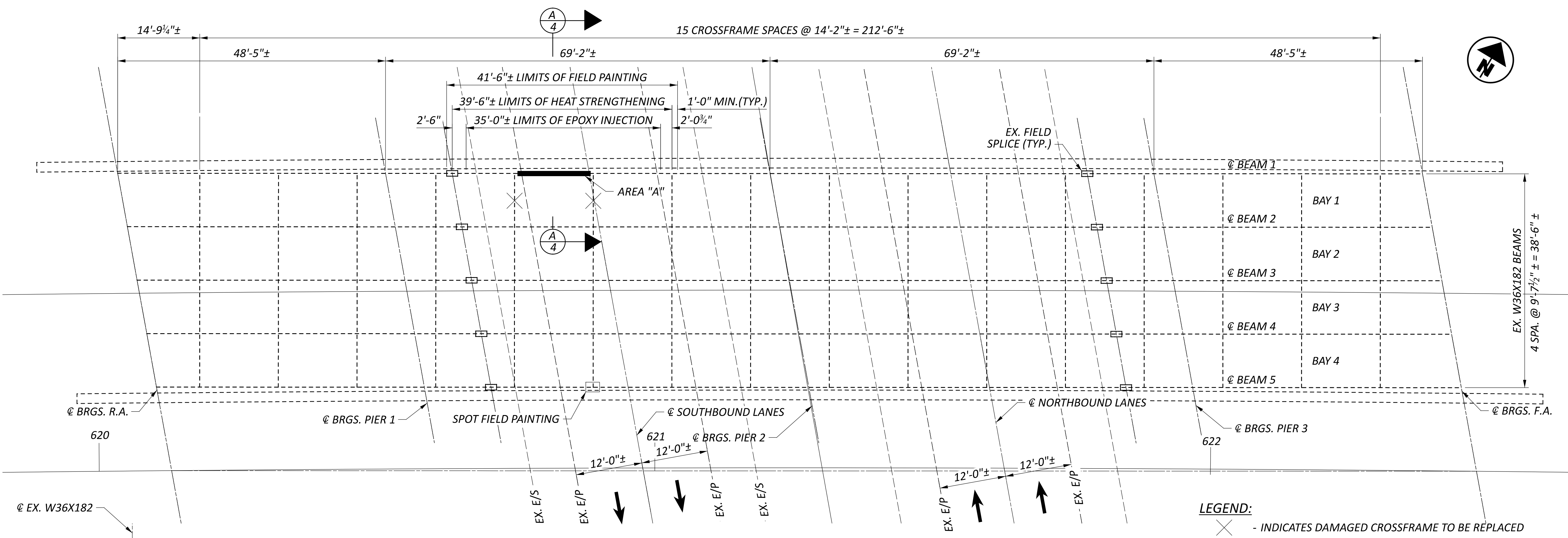
ITEM 614, BARRIER REFLECTOR, TYPE 1, ONE-WAY 10 EACH

ITEM 614, OBJECT MARKER, ONE-WAY 10 EACH

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.



DESIGNER	CAW
REVIEWER	EAK 07/17/24
PROJECT ID	122043
SHEET	TOTAL
P.3	15



LEGEND:

- ✕ - INDICATES DAMAGED CROSSFRAME TO BE REPLACED
- - INDICATES DAMAGED AREA TO BE REPLACED AS SHOWN ON THE PLANS

TABLE #1: DAMAGED SECONDARY MEMBER TO BE REPLACED

CROSSFRAME BAY	PIER/ABUT.	NO.	1D	2D	3S
1	PIER 1	2	1	1	1
1	PIER 1	3	1	1	1

NOTES:

1. EX. STEEL TYPE IS A36.
 -YIELD STRENGTH IS 36 KSI.
 -ALLOWABLE JACKING STRESS IS 18 KSI.
2. EX. PAINT SYSTEM IS OZEU APPLIED IN 2001.
3. ALL MATERIALS FOR THE PROP. STIFFENER SHALL BE "CVN". FURNISH MATERIALS THAT MEETS THE MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01.

STRUCTURAL STEEL MATERIALS SHALL BE ASTM A709 GRADE 50 FOR THE STIFFENER PLATES AND PROPOSED CROSSFRAMES

THE DIAPHRAGM MEMBERS SHALL BE REPLACED IN-KIND WITH 3 X 3 X 3/16" ANGLES.

THE COST FOR PROVIDING AND INSTALLING PROP. STIFFENER PLATES AND PROPOSED CROSSFRAMES, INCLUDING ALL LABOR EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE ABOVE WORKS SHALL BE INCLUDED FOR PAYMENT WITH ITEM 513, STRUCTURAL STEEL MEMBER LEVEL UP, AS PER PLAN UNLESS SEPARATELY ITEMIZED IN THE PLANS.

THE COST ASSOCIATED WITH TEMPORARY SUPPORT SHALL BE INCLUDED WITH ITEMS 16-JACKING AND TEMPORARY SUPPORT OF STRUCTURE, AS PER PLAN FOR PAYMENT.

THE COST FOR REMOVING EXISTING MEMBER SHALL BE INCLUDED WITH ITEM 202 FOR PAYMENT.

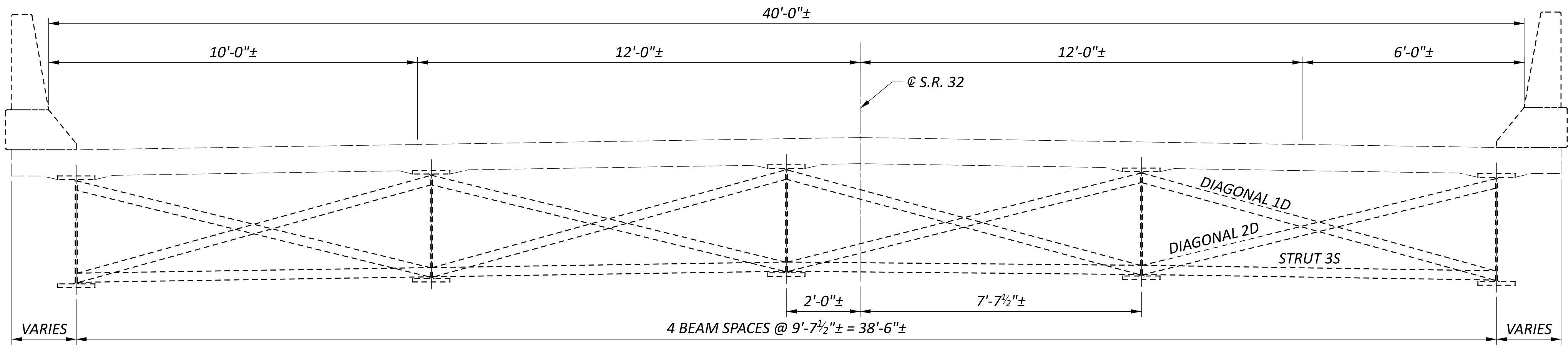
4. REPAIR GAP BETWEEN STEEL MEMBERS AND CONCRETE USING EPOXY INJECTION AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.

THIS WORK SHALL BE PERFORMED WITH THE SHOULDER OF THE BRIDGE ABOVE BEAM LINE #1 CLOSED TO TRAFFIC. APPLY AND CURE THE EPOXY INJECTION ACCORDING TO THE MANUFACTURER'S PUBLISHED RECOMMENDATION.

PAYMENTS SHALL BE MADE PER LINEAR FOOT OF BEAM LINE EPOXY INJECTED. INJECTION MAY NEED TO OCCUR ON EITHER OR BOTH SIDES OF THE TOP FLANGE. INJECTION THE TOP FLANGE FROM BOTH SIDES DOES NOT CONSTITUTE FOR AN INCREASE IN PAY LENGTH.

THE COST SHALL BE INCLUDED WITH ITEM 512, CONCRETE REPAIR BY EPOXY INJECTION FOR PAYMENT.

SECTION A-A
 DIMENSIONS SHOWN ARE APPROXIMATE AND TO BE FIELD VERIFIED BY THE CONTRACTOR



EX. TRANSVERSE SECTION

SFN	4002040
DESIGN AGENCY	B.G. ENGINEERING GROUP, INC.
DESIGNER	MS
CHECKER	SRB
REVIEWER	RG
DATE	07/17/24
PROJECT ID	122043
SUBSET	4
TOTAL	5
SHEET	P.13
TOTAL	15