

# Index of Sheets

SHEET NO.	REVISION	SHEET NAME
1		TITLE SHEET
2		ESTIMATED QUANTITIES
3-5		GENERAL NOTES
5A		PROJECT COMMITMENTS
6-16		TRAFFIC CONTROL PLANS

## STANDARD ROADWAY AND STRUCTURE DRAWINGS

### ROADWAY DESIGN STANDARDS

DWG. NO.	REVISION	DESCRIPTION
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS

### TRAFFIC CONTROL APPURTENANCES

DWG. NO.	REVISION	DESCRIPTION
T-FAB-1	5-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	11-01-11	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-PBR-1	6-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	11-01-11	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-WZ-11	03-13-09	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-12	03-13-09	ONE LANE CLOSURE DETAIL FOR BRIDGES ON DIVIDED HIGHWAYS

### EROSION PREVENTION AND SEDIMENT CONTROL

DWG. NO.	REVISION	DESCRIPTION
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-1-08	SILT FENCE FABRIC JOINING DETAILS

### LIST OF STANDARD DRAWINGS

DWG. NO.	REVISION	DESCRIPTION
SBR-2-115	01-04-96	GENERAL NOTES AND DETAILS FOR EXPANSION JOINT REPLACEMENT CONSTRUCTION TYPES "A" THRU "J" - 1991
SBR-2-116	01-04-96	GENERAL NOTES AND DETAILS FOR EXPANSION JOINT REPLACEMENT TYPES "A" THRU "J" - 1991
SBR-2-118	05-30-96	STRIP SEAL EXPANSION JOINTS - REPLACEMENT CONSTRUCTION DETAILS TYPE "C" AND "D" - 1991
SBR-2-119	05-30-96	STRIP SEAL EXPANSION JOINTS - REPLACEMENT CONSTRUCTION DETAILS TYPE "E" AND "F" - 1991
STD-1-2	03-28-08	SLIDER PLATES AND DECK DRAINS
STD-1-4	01-05-01	SLIDER PLATES FOR MEDIAN BARRIER

# STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

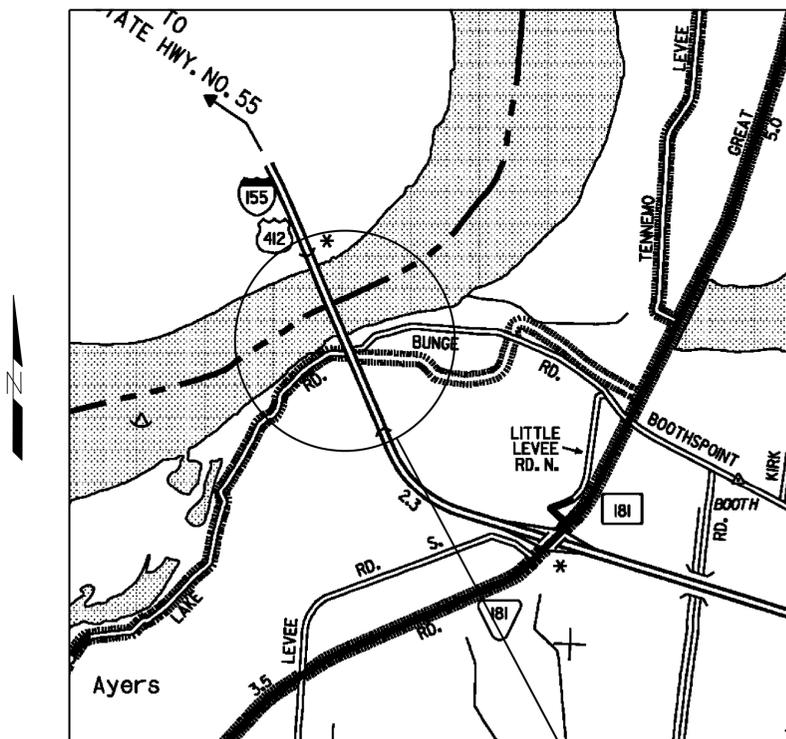
## DYER COUNTY

BRIDGE NO. 23-I155-0.00 OVER MISSISSIPPI RIVER

### BRIDGE REPAIR

INTERSTATE 155 F.A.H.S. NO.

SCALE: 1" = 1 MILE

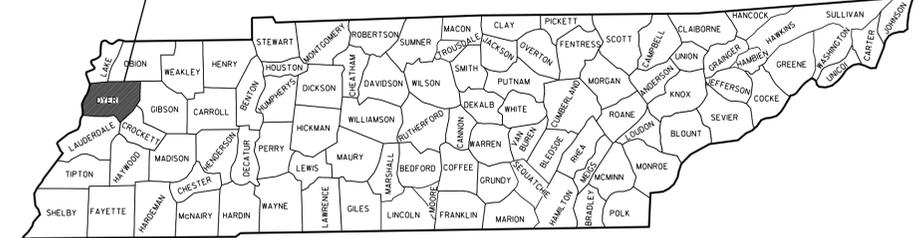


PROJECT LENGTH  
1.36 MILE

PROJECT NO. 23001-3173-94  
1155 - L.M. 0.00

TENN.	YEAR	SHEET NO
	2015	1
FED AID PROJ NO	BH-I-155-1(119)	
STATE PROJ NO	23001-3173-94	
MODOT PROJ NO.	J910388	

DYER COUNTY  
PROJECT NO. 23001-3173-94



### LIST OF DRAWINGS

DWG. NO.	DRAWING
BR-116-18	LAYOUT OF BRIDGE TO BE REPAIRED (0.00)
BR-116-19	LAYOUT OF BRIDGE TO BE REPAIRED (0.00)
BR-116-20	LAYOUT OF BRIDGE TO BE REPAIRED (0.00)
BR-116-21	ESTIMATED QUANTITIES
BR-116-22	GENERAL NOTES
BR-116-23	GENERAL NOTES
BR-116-24	GENERAL NOTES
BR-116-25	BRIDGE REPAIR DETAILS
BR-116-26	BRIDGE REPAIR DETAILS
BR-116-27	BRIDGE REPAIR DETAILS
BR-116-28	BRIDGE REPAIR DETAILS
BR-116-29	BRIDGE REPAIR DETAILS
BR-116-30	BRIDGE REPAIR DETAILS
BR-116-31	BRIDGE REPAIR DETAILS
BR-116-32	BRIDGE REPAIR DETAILS
BR-116-33	BRIDGE REPAIR DETAILS
BR-116-34	BRIDGE REPAIR DETAILS
BR-116-35	BRIDGE REPAIR DETAILS
BR-116-36	BRIDGE REPAIR DETAILS
BR-116-36A	BRIDGE REPAIR DETAILS
BR-116-37	BRIDGE REPAIR DETAILS
BR-116-37A	BRIDGE REPAIR DETAILS
BR-116-38	BRIDGE REPAIR DETAILS
BR-116-39	BRIDGE REPAIR DETAILS
BR-116-39A	BRIDGE REPAIR DETAILS
BR-116-40	LIGHTING REMOVAL PLAN
BR-116-41	LIGHTING INSTALLATION PLAN
BR-116-42	ELECTRICAL DETAILS I
BR-116-43	ELECTRICAL DETAILS II
BR-116-44	ELECTRICAL DETAILS III
BR-116-45	ELECTRICAL DETAILS IV

### LIST OF REFERENCE DRAWINGS

DWG. NO.	DRAWING
M-58-1 TO M-58-80	ORIGINAL BRIDGE PLANS
K-86-54 TO K-86-78	ORIGINAL BRIDGE PLANS
M-20-1A TO M-20-25	ORIGINAL BRIDGE PLANS
BR-41-51 TO BR-41-54	1999 BRIDGE REHABILITATION PLANS
BR-81-87 TO BR-81-107B	2008 BRIDGE REHABILITATION PLANS

ALL REFERENCE DRAWINGS TO BE PRINTED WITH THE PLANS

APPROVED: Paul D. Degges  
PAUL D. DEGGES, CHIEF ENGINEER

DATE \_\_\_\_\_

APPROVED: John Schroer  
JOHN SCHROER, COMMISSIONER

### SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

T.D.O.T. MANAGER MIKE LAWSON  
DESIGNED BY GARVER, LLC  
DESIGNER A. J. KHAIRI CHECKED BY J. H. RUDELL  
PE NO. 23001-4172-04 PIN. NO. 107298.01

UNOFFICIAL  
SET  
NOT FOR  
BIDDING

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
APPROVED: \_\_\_\_\_  
DIVISION ADMINISTRATOR DATE

# BRIDGE REPAIR QUANTITIES

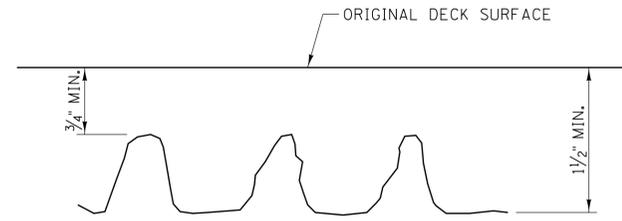
FED AID PROJ. NO.	MODOT PROJECT NO.	PROJECT NO.	YEAR	SHEET NO.
BH-I-155-1(119)	J910388	23001-3173-94	2015	2

ITEM	DESCRIPTION	UNIT	TDOT	MODOT	TOTAL
202-01.02	REMOVAL OF ASBESTOS	LS	0.67	0.33	1
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	400	400	800
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	0.5	0.5	1
411-01.10	ACS MIX(PG64-22) GRADING D	TON	35	35	70
411-12.02	SCOURING SHOULDERS (NON-CONTINUOUS) (16" WIDTH)	L.M.	0.1	0.1	0.2
415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	450	450	900
602-01	STRUCTURAL STEEL (LADDERS, CAGES, AND PLATFORMS)	LB.	25000	25000	50000
602-10.14	NAVIGATION LIGHTS	LS	0.5	0.5	1
602-10.32	STRUCTURAL STEEL (REPAIRS)	LB.	1750	1750	3500
602-10.90	AERIAL LIGHTS	LS	0.5	0.5	1
603-01	PAINT STEEL STRUCTURE (NEW STRUCTURAL STEEL)	LS	0.5	0.5	1
603-02.20	SPOT PAINTING EXISTING STEEL STRUCTURES	S.F.	1000	1000	2000
604-05.31	BRIDGE DECK GROOVING (MECHANICAL)	S.Y.	1350	1350	2700
604-10.05	CONCRETE	S.F.	68	32	100
604-10.20	HYDRODEMOLITION	S.Y.	1350	1350	2700
604-10.40	EXPANSION JOINT REPAIRS (TYPE D)	L.F.	40.5	40.5	81
604-10.41	EXPANSION JOINT REPAIRS (TYPE E)	L.F.	-	81	81
604-10.43	PENETRATING WATER REPELLENT CONCRETE SEAL	S.Y.	177.5	177.5	355
604-10.44	EXPANSION JOINT REPAIRS	L.F.	81	-	81
604-10.54	CONCRETE REPAIRS	S.F.	68	32	100
604-10.60	EXPANSION JOINT REPAIRS (MODULAR TYPE)	L.F.	81	81	162
604-10.62	EPOXY INJECTION REPAIR (COMPLETE AND IN PLACE)	L.F.	100	100	200
604-10.67	CONCRETE REPAIRS (SAW CUTTING)	L.F.	1400	1400	2800
604-10.80	BRIDGE REPAIRS	LS	0.5	0.5	1
604-10.90	MISCELLANEOUS BRIDGE ITEMS (FLUSH ROADWAY DRAINS)	LS	0.68	0.32	1
604-10.91	MISCELLANEOUS BRIDGE ITEMS (CLEAN EXISTING JOINTS)	LS	0.67	0.33	1
617-02	BRIDGE DECK CRACK SEALING	L.F.	1400	1400	2800
617-05	SEALANT (HMWM)	GAL.	140	140	280
619-01	BRIDGE DECK OVERLAY (PMC)	S.Y.	1350	1350	2700
705-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	230	222	452
705-08.51	PORTABLE IMPACT ATTENUATOR (NCHRP 350 TL-3)	EACH	3	5	8
712-01	TRAFFIC CONTROL	LS	0.5	0.5	1
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	2840	3120	5960
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	130	95	225
712-06	SIGNS (CONSTRUCTION)	S.F.	384	384	768
712-07.03	TEMPORARY BARRICADES (TYPE III)	EACH	11	5	16
712-08.03	ARROW BOARD (TYPE C)	EACH	1	1	2
712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	37180	37180	74360
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	1	1	2
714-16.05	TEMPORARY NAVIGATIONAL LIGHTING	LS	0.5	0.5	1
716-01.10	SNOWPLOWABLE REFLECTIVE MARKERS	EACH	8	8	16
716-12.02	ENHANCED FLATLINE THERMO PVMT MARKING (6" LINE)	L.M.	0.25	0.25	0.5
717-01	MOBILIZATION	LS	0.5	0.5	1

- ① INCLUDES THE COST OF ALL LABOR AND MATERIALS FOR FURNISHING AND INSTALLING THE TEMPORARY SILT FENCE WHERE LOCATED BY THE ENGINEER, AND REMOVAL UPON PROJECT COMPLETION. SEE STD. DWGS. EC-STR-3C AND EC-STR-3E. SEE SUBSECTION 209.07 OF THE SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
- ② INCLUDES THE COST OF ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO SCOUR THE SHOULDERS OF THE ASPHALT PAVEMENT TRANSITION AREAS AT BOTH ENDS OF THE BRIDGE.
- ③ INCLUDES ALL COSTS ASSOCIATED WITH COLD PLANING EXISTING ASPHALT PAVEMENT ON THE BRIDGE APPROACHES AT BRIDGE NO. 23-I155-0.00. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-37.
- ④ INCLUDES THE COST OF ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR FURNISHING AND INSTALLING THE LADDERS, CAGES, PLATFORMS, AND HANDRAILS AT BRIDGE NO. 23-I155-0.00. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-38 THRU BR-116-39.
- ⑤ INCLUDES ALL COSTS ASSOCIATED WITH REMOVING EXISTING MARINE NAVIGATIONAL LIGHTS AND PROVIDING NEW LED NAVIGATIONAL LIGHTS AT BRIDGE NO. 23-I155-0.00. FOR LOCATIONS, SEE DWG. NO. BR-116-19. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-40 THRU BR-116-45.
- ⑥ INCLUDES THE COST OF ALL NEW STRUCTURAL STEEL PLATES AND MEMBERS, PIN COVERS, THREADED RODS, BOLTS, NUTS, WASHERS, LABOR AND ANY MISCELLANEOUS MATERIALS NECESSARY TO PROVIDE AND INSTALL NEW STRUCTURAL STEEL MEMBERS AT CANTILEVER REPAIR LOCATIONS, BEARING REPAIR LOCATIONS, STIFFENER REPAIR LOCATIONS, CRACKED CLIP ANGLE LOCATIONS, AND DRAIN EXTENSION LOCATIONS. THIS ITEM ALSO TO INCLUDE THE MISSING NUT AT FLOORBEAM 15, STRINGER 9. FOR LOCATIONS, SEE DWG. NOS. BR-116-18 THRU BR-116-20. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-35, BR-116-36, BR-116-37A AND BR-116-39A.
- ⑦ INCLUDES ALL COSTS ASSOCIATED WITH REMOVING EXISTING AERIAL OBSTRUCTION LIGHTS AND PROVIDING NEW AERIAL OBSTRUCTION LIGHTS AT BRIDGE NO. 23-I155-0.00. FOR LOCATIONS, SEE DWG. NOS. BR-116-18 THRU BR-116-20. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-40 THRU BR-116-45.
- ⑧ INCLUDES ALL COSTS ASSOCIATED WITH PAINTING NEW STRUCTURAL MEMBERS, PIN COVERS, THREADED RODS, BOLTS, NUTS, WASHERS, STEEL LADDERS, CAGES, HANDRAILS, AND PLATFORMS. FOR NOTES, SEE DWG. NOS. BR-116-22 THRU BR-116-24, BR-116-35 THRU BR-116-36A, AND BR-116-37A THRU BR-116-39A.
- ⑨ INCLUDES ALL COSTS TO CLEAN AND PAINT EXISTING STEEL MEMBERS AT REPAIR LOCATIONS AND LOCATIONS WHERE NEW LADDERS AND REST PLATFORMS WILL BE ADDED ON BRIDGE NO. 23-I155-0.00. FOR NOTES, SEE DWG. NOS. BR-116-22 THRU BR-116-24, BR-116-35 THRU BR-116-36A AND BR-116-37A THRU BR-116-39A.
- ⑩ INCLUDES COST TO PERFORM BRIDGE DECK GROOVING WITHIN 1'-0" OF THE TOE OF THE PARAPET AND MEDIAN BARRIER FOR ALL AREAS DESIGNATED TO RECEIVE NEW PMC OVERLAY.
- ⑪ INCLUDES ALL COSTS ASSOCIATED WITH SPALL REPAIRS USING HIGH EARLY STRENGTH CONCRETE AT FIELD DESIGNATED LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-37.
- ⑫ INCLUDES ALL COSTS TO HYDRODEMOLITION THE BRIDGE DECK 1 1/2" MINIMUM AND REMOVE ALL PARTIAL DEPTH DETERIORATED CONCRETE. ROTOMILLING THE DECK PRIOR TO HYDRODEMOLITION IS ALLOWED. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-25 THRU BR-116-29.
- ⑬ INCLUDES ALL COSTS OF EXISTING CONCRETE REMOVAL IN THE EXPANSION JOINT REPAIR AREAS, HIGH EARLY STRENGTH CONCRETE, EPOXY COATED REINFORCING STEEL, EXPANSION JOINT ASSEMBLIES AND ALL OTHER WORK REQUIRED FOR PLACEMENT OF TYPE "D" AND TYPE "E" STRIP SEAL EXPANSION JOINTS AS SHOWN ON DWG. NOS. BR-116-32 AND BR-116-33, STD. DWG. NOS. SBR-2-115, SBR-2-116, SBR-2-118, AND SBR-2-119 AT ABUTMENT NO. 1 AND PIER NO. 14 OF BRIDGE NO. 23-I155-0.00. THIS ITEM ALSO INCLUDES COST TO REMOVE AND REPLACE PORTION OF CONCRETE PARAPETS, MEDIAN BARRIER, AND SLIDER PLATES AS REQUIRED TO FACILITATE STRIP SEAL EXPANSION JOINT REPLACEMENT.
- ⑭ INCLUDES ALL COSTS ASSOCIATED WITH INSTALLING NEW EXPANSION JOINT AT ABUTMENT NO. 2 OF BRIDGE NO. 23-I155-0.00 AS SHOWN ON DETAILS ON DWG. NO. BR-116-34.
- ⑮ INCLUDES ALL COSTS ASSOCIATED WITH SPALL REPAIRS USING POLYMER MODIFIED CEMENTITIOUS PATCHING MATERIAL AT FIELD DESIGNATED LOCATIONS AT BRIDGE NO. 23-I155-0.00. THE ENGINEER MAY INCREASE, DECREASE OR ELIMINATE THE QUANTITY FOR THIS ITEM. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-37. THIS ITEM ALSO INCLUDES ALL COSTS ASSOCIATED WITH BEAM HAUNCH REPAIRS, SEE DWG. NO. BR-116-37A.
- ⑯ INCLUDES ALL COSTS ASSOCIATED WITH SAWCUTTING, CLEANING EXISTING REINFORCEMENT TO REMAIN, REMOVING EXISTING FINGER JOINT ASSEMBLIES, TRANSVERSE TRENCH DRAINS, STRUCTURAL MEMBERS, AND CONCRETE AND REPLACING THEM WITH NEW MODULAR JOINT ASSEMBLIES (14" MIN. JOINT MOVEMENT), REQUISITE STRUCTURAL MEMBERS, NEW CONCRETE, AND NEW REINFORCING STEEL. THIS ITEM ALSO INCLUDES COST TO REMOVE AND REPLACE PORTIONS OF CONCRETE PARAPETS, MEDIAN BARRIER, AND SLIDER PLATE ASSEMBLIES AS REQUIRED TO FACILITATE MODULAR JOINT REPLACEMENT. THIS ITEM SHALL ALSO INCLUDE ALL COSTS FOR ONE TECHNICAL SUPPORT REPRESENTATIVE TO GUIDE THE CONTRACTOR IN THE MODULAR JOINT INSTALLATION. THE TECHNICAL SUPPORT REPRESENTATIVE MUST BE PRESENT ON SITE DURING ALL MODULAR JOINT OPERATIONS. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-30 AND BR-116-31.
- ⑰ INCLUDES ALL COSTS ASSOCIATED WITH SAW CUTTING 1" DEEP ALONG THE FACES OF EXISTING PARAPETS, MEDIAN, JOINTS, ABUTMENTS, AND PORTABLE BARRIER RAIL AT THE NEW PMC OVERLAY AT BRIDGE NO. 23-I155-0.00. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-25 THRU BR-116-29.
- ⑱ INCLUDES COST OF ALL LABOR, MATERIALS AND EQUIPMENT TO CLEAN AND FLUSH ALL ROADWAY DRAINS OF DEBRIS ON BRIDGE NO. 23-I155-0.00.
- ⑲ INCLUDES COST OF ALL LABOR, MATERIALS, AND EQUIPMENT TO CLEAN ALL EXISTING EXPANSION JOINTS OF DEBRIS ON BRIDGE NO. 23-I155-0.00.
- ⑳ INCLUDES ALL COSTS FOR INSTALLING DECK SEALER (HMWM) AT ALL JOINTS IN THE PMC OVERLAY, INCLUDING DECK SURFACE PREPARATION, CLEANING, LABOR, SAND AND ALL MISCELLANEOUS MATERIALS REQUIRED TO SEAL THE JOINTS ALONG THE TRAFFIC PHASE LINES AND THE EDGE OF EXISTING PARAPETS AND MEDIAN, ALONG THE EDGES OF EXISTING PMC OVERLAY AND EXPANSION JOINTS ACCORDING TO MANUFACTURER'S SPECIFICATIONS. THIS ITEM DOES NOT INCLUDE THE COST FOR FURNISHING THE DECK SEALER (HMWM).
- ㉑ INCLUDES ALL COSTS FOR FURNISHING THE SEALER MATERIAL (HMWM = HIGH MOLECULAR WEIGHT METHACRYLATE) FOR SEALING OVERLAY AT TRAFFIC CONSTRUCTION JOINTS AND AT THE FACES OF PARAPETS AND EDGE OF PMC OVERLAY.
- ㉒ INCLUDES ALL COSTS ASSOCIATED WITH PLACING AND FINISHING OF THE NEW POLYMER MODIFIED CONCRETE (PMC) OVERLAY (DEPTH VARIES FROM 1 1/2" TO 3") AT SPAN NOS. 18 AND 21 OF BRIDGE NO. 23-I155-0.00. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-25 THRU BR-116-29 AND TENN D.O.T. STANDARD SPECIFICATION.

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

- ㉓ INCLUDES ALL COSTS FOR FURNISHING AND INSTALLING PORTABLE DELINEATORS MOUNTED ON THE PORTABLE BARRIER RAIL. FOR NOTES AND DETAILS, SEE STD. DWG. NO. T-WZ-14. FOR LOCATIONS, SEE TRAFFIC CONTROL SHEET NOS. 6-16.
- ㉔ THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF NCHRP 350 FOR TEST LEVEL 3. EXAMPLES WOULD BE A QUAD-GUARD, A REACT 350 OR A TRACC. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS LISTED ON THE MANUFACTURER'S BILL OF MATERIALS. SHOP DRAWINGS OF THE PORTABLE ENERGY TERMINALS MUST BE SUBMITTED TO AND APPROVED BY THE DIVISION OF STRUCTURES PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE PAID FOR A MAXIMUM OF TWO (2) ENERGY ABSORBING TERMINALS, NCHRP 350, TL 3 WHICH SHALL BE RELOCATED AS NECESSARY.
- ㉕ INCLUDES ALL COSTS ASSOCIATED WITH THE INSTALLATION AND MAINTENANCE OF SIGN PANELS, SHEETING, AND SUPPORTS.
- ㉖ INCLUDES ALL COSTS TO PROVIDE TEMPORARY NAVIGATIONAL LIGHTING AT ALL EXISTING NAVIGATIONAL LIGHT LOCATIONS THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS (20 LOCATIONS TOTAL). NAVIGATIONAL LIGHTS SHALL BE SOLAR POWERED TO PROVIDE SERVICE WHEN PERMANENT NAVIGATIONAL LIGHTING IS NOT OPERATIONAL. TEMPORARY NAVIGATIONAL LIGHTING SYSTEM SHALL MEET THE FULL APPROVAL OF THE ENGINEER FROM TDOT.
- ㉗ INCLUDES ALL COSTS FOR THE INSTALLATION OF SNOWPLOWABLE MARKERS. SNOWPLOWABLE MARKERS WILL BE INSTALLED IN ALL AREAS RECEIVING NEW PMC OVERLAY AND APPROACH SLABS AS DESIGNATED ON SITE BY ENGINEER. FOR NOTES AND DETAILS, SEE STANDARD DRAWINGS TM-5 AND TM-6.
- ㉘ THE ENGINEER MAY INCREASE, DECREASE OR ELIMINATE THE QUANTITY FOR THIS ITEM.
- ㉙ THE CONTRACTOR SHALL ONLY BE PAID FOR THE ACTUAL QUANTITY USED DURING CONSTRUCTION.
- ㉚ INCLUDES COST OF ALL LABOR, MATERIALS, AND INCIDENTALS TO PROVIDE STEEL BARRIER PLATES AT TEN (10) LOCATIONS TO FACILITATE THE MODULAR, STRIP, AND BACKER ROD JOINT REPLACEMENTS. SEE SHEET NO. 16 FOR ADDITIONAL NOTES AND DETAILS. THE CONTRACTOR SHALL RELOCATE THE CONNECTOR PLATE ASSEMBLIES AS NEEDED DURING DIFFERENT CONSTRUCTION PHASES.
- ㉛ INCLUDES ALL COSTS ASSOCIATED WITH SAND OR WATER BLAST CLEANING, FURNISHING COATING MATERIALS, LABOR, AND ANY NECESSARY MATERIALS REQUIRED TO REMOVE AND REPLACE THE EXISTING SEALANT AT THE TOP OF PIER NOS. 19 THRU 21. THE PIER SEAL COATING SHALL BE FROM THE TDOT QUALIFIED PRODUCTS LIST. THE CONTRACTOR MUST STRICTLY CONFORM WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS DURING INSTALLATION.
- ㉜ INCLUDES ALL COSTS ASSOCIATED WITH PROVIDING EPOXY INJECTION AT FIELD DESIGNATED LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-37.
- ㉝ INCLUDES ALL COSTS TO REMOVE ASBESTOS CONTAINING MATERIALS/ PROVIDE PROTECTION IF ENCOUNTERED AT BRIDGE NO. 23-I155-0.00 AS DIRECTED BY THE ENGINEER FROM TDOT AND IN ACCORDANCE WITH SPECIAL PROVISION SP202ACM. FOR ADDITIONAL NOTES, SEE DWG. NO. BR-116-24.



**DETAIL SHOWING DEPTH OF REMOVAL  
BY HYDRODEMOLITION**

THE POLYMER MODIFIED CONCRETE (PMC) CAN BE LOADED AFTER A TWELVE (12) HOUR WET CURE AND A TWELVE (12) HOUR DRY CURE HAVE EXPIRED AND A COMPRESSIVE STRENGTH OF 3500 P.S.I. HAS BEEN OBTAINED.

**UNOFFICIAL  
SET**  
  
NOT FOR  
BIDDING

STATE OF TENNESSEE  
**DEPARTMENT OF TRANSPORTATION**

ESTIMATED QUANTITIES

INTERSTATE 155 OVER MISSISSIPPI RIVER  
BRIDGE NO. 23-I155-0.00

DYER COUNTY  
2015

BR-116-21

L:\Cobos 1/13/2015 3:55:30 PM  
 WORKSPACE: T001 Bridge Repair over Mississipi Riv\Drawings\BRC\Final\02-Sheet 2 BR-116-21.dgn  
 C:\200\001634 - TDOT - Bridge Repair

DESIGNED BY L. J. COBOS DATE JULY 2013  
 DRAWN BY C. W. THOMAS DATE JULY 2013  
 SUPERVISED BY J. H. RUDELL DATE JULY 2013  
 CHECKED BY A. J. KHARI DATE JULY 2013

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON



## PAINT NOTES

**PROTECTIVE COATING:** CALCIUM SULFONATE SYSTEM IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS.

**SURFACE PREPARATION:** SURFACE PREPARATION OF THE EXISTING STEEL SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR "OVERCOATING OF STRUCTURAL STEEL (CALCIUM SULFONATE SYSTEM)". THE COST OF SURFACE PREPARATION WILL BE CONSIDERED COMPLETELY COVERED BY ITEM NO. 603-01, PAINTING STEEL STRUCTURES, I.S. (FOR NEW STRUCTURAL STEEL) OR ITEM NO. 603-02.20, SPOT PAINTING EXISTING STEEL STRUCTURES, S.F. (FOR EXISTING STEEL).

**RUST PENETRATING SEALER:** THE RUST PENETRATING SEALER SHALL BE APPLIED TO THE SURFACES OF ALL OVERLAPPING STEEL PLATES, PIN CONNECTIONS, PIN AND HANGER CONNECTIONS AND OTHER LOCATIONS WHERE RUST BLEEDING, PACK RUST AND LAYERED RUST IS OCCURRING. THE COST OF THE RUST PENETRATING SEALER WILL BE CONSIDERED COMPLETELY COVERED BY ITEM NO. 603-02.20, SPOT PAINTING EXISTING STEEL STRUCTURES, S.F.

**PRIME COAT:** THE COST OF THE PRIME COAT WILL BE CONSIDERED COMPLETELY COVERED BY ITEM NO. 603-01, PAINTING STEEL STRUCTURES, I.S. (FOR NEW STRUCTURAL STEEL) OR ITEM NO. 603-02.20, SPOT PAINTING EXISTING STEEL STRUCTURES, S.F. (FOR EXISTING STEEL).

**TOPCOAT:** THE COLOR OF THE TOPCOAT SHALL BE TAN (FEDERAL STANDARD #23522). THE COST OF THE TOPCOAT WILL BE CONSIDERED COMPLETELY COVERED BY ITEM NO. 603-01, PAINTING STEEL STRUCTURES, I.S. (FOR NEW STRUCTURAL STEEL) OR ITEM NO. 603-02.20, SPOT PAINTING EXISTING STEEL STRUCTURES, S.F. (FOR EXISTING STEEL).

ALL DEBRIS AND FOREIGN MATERIALS SHALL BE CLEANED FROM THE EXISTING FLOORBEAMS, GIRDERS, VERTICAL TRUSS MEMBERS, ETC. DURING PAINTING OPERATIONS. ALL COST OF THIS CLEANING SHALL BE INCLUDED IN THE PRICE FOR PAY ITEMS.

**CLEANING AND PAINTING:** ALL STRUCTURAL STEEL SHALL BE HAND OR POWER TOOL CLEANED, WATER WASHED AND PAINTED. HAND OR POWER TOOL CLEANING SHALL BE IN ACCORDANCE WITH SECTION 603.05(A) OF THE STANDARD SPECIFICATIONS AND WATER WASHING SHALL BE IN ACCORDANCE WITH SECTION 603.05(C) OF THE STANDARD SPECIFICATIONS.

THE PAINT SYSTEM SHALL BE A CALCIUM SULFONATE SYSTEM, COLOR OF THE FINISH COAT SHALL COMPLY WITH FEDERAL STANDARD NO. 5958, 23522, TAN. SEE SECTIONS 603 AND 910 OF THE STANDARD SPECIFICATIONS. THE PAINT SUPPLIED SHOULD BE PROVIDED FROM A MANUFACTURER AND BRAND NAME FROM THE LIST OF "QUALIFIED BRANDS AND MANUFACTURERS OF CALCIUM SULFONATE OVERCOAT SYSTEM".

**CONTAINMENT AND DISPOSAL:** ACCORDING TO OUR RECORDS, THE BRIDGE CONTAINS RED LEAD AND CHROMATE PAINT WHICH HAVE BEEN DESIGNATED AS HAZARDOUS MATERIALS. CONTAINMENT AND DISPOSAL SHALL BE IN ACCORDANCE WITH SECTION 603.13 OF THE STANDARD SPECIFICATIONS EXCEPT ALL WATER AND DEBRIS FROM WATER WASHING SHALL BE COLLECTED AND NOT ALLOWED TO ENTER THE ENVIRONMENT REGARDLESS OF TEST RESULTS. SEE SECTION 603-13(B) OF THE STANDARD SPECIFICATIONS FOR INFORMATION REQUIRED ON THE CONTAINMENT SYSTEM DESIGN DRAWINGS.

**WORKER PROTECTION:** OUR RECORDS INDICATE THAT BRIDGE NO. 23-1155-0.00 WAS ORIGINALLY PAINTED WITH MATERIALS CONTAINING LEAD AND/OR CHROMATES. THE CONTRACTOR SHALL BE REQUIRED TO PROCEED ACCORDINGLY TO TAKE ALL MANDATORY SAFEGUARDS PRESCRIBED BY STATE AND FEDERAL LAW FOR BOTH THE WORKER'S PROTECTION AND HAZARDOUS MATERIALS DISPOSAL.

## OVERCOATING OF STRUCTURAL STEEL

**SYSTEMS OF COATINGS:** THE REQUIRED SYSTEM AND COLOR OR CHOICE OF SYSTEMS AND COLOR WILL BE SPECIFIED ON THE PLANS. EACH COAT OF THE SPECIFIED SYSTEM SHALL BE APPLIED TO ALL STRUCTURAL STEEL, UNLESS THE CONTRACT SPECIFICALLY DELINEATES OTHERWISE. ALL COATINGS SHALL COMPLY WITH LOCAL VOC (VOLATILE ORGANIC COMPOUND) REGULATIONS WHERE THE PAINT IS APPLIED. THE SYSTEM AND COLOR SHALL NOT VARY FOR ANY PORTION OF THE ENTIRE STRUCTURE, INCLUDING MATERIAL FOR FIELD REPAIRS, AND SHALL BE COMPATIBLE PRODUCTS OF A SINGLE MANUFACTURER. THE CONTRACTOR SHALL COORDINATE THE VARIOUS ITEMS OF WORK TO ENSURE COMPLIANCE WITH THE REQUIREMENTS OF THIS SECTION. APPROVED MATERIAL SPECIFICATIONS (TABLE A, B OR C) AND DRY FILM THICKNESS FOR THE COATING SYSTEMS SHALL BE AS INDICATED IN THE FOLLOWING TABLE:

CALCIUM SULFONATE SYSTEM		
COATING	TABLE	DRY FILM THICKNESS, MILS
CALCIUM SULFONATE RUST PENETRATING SEALER	A	1.0 (25) MIN.
CALCIUM SULFONATE PRIMER	B	4.0 (100) MIN.
CALCIUM SULFONATE TOPCOAT	C	5.0 (125) MIN.

**COATING:** ALL EXPOSED AND ACCESSIBLE SURFACES OF STRUCTURAL STEEL AND STEEL BEARINGS SHALL BE COATED WITH THE CALCIUM SULFONATE PAINT SYSTEM.

**SURFACE PREPARATION:** CLEANING AND PAINTING OF STRUCTURAL STEEL SHALL PROCEED IN AREAS OR SECTIONS AS APPROVED BY THE ENGINEER. USUALLY CONSISTING OF ONE OR MORE COMPLETE SPANS. THE CLEANING APPLICATION OF THE COATINGS FOR EACH SPECIFIED SECTION SHALL BE ENTIRELY COMPLETED AND ACCEPTED BY THE ENGINEER PRIOR TO PROCEEDING WITH ADDITIONAL CLEANING OR COATING.

**CLEANING OF STRUCTURAL STEEL:** ALL EXPOSED STEEL SURFACES SHALL BE MECHANICALLY CLEANED AND POWER WASHED PRIOR TO APPLICATION OF THE COATING. OIL, GREASE, AND OTHER CONTAMINANTS SHALL BE REMOVED IN ACCORDANCE WITH PROCEDURES FROM STEEL STRUCTURES PAINTING COUNCIL SPECIFICATION SSPC-SP1. THE CONTRACTOR SHALL MAKE AVAILABLE TO THE ENGINEER ACCESS TO ALL SSPC SPECIFICATIONS REFERENCED FOR CLEANING AND COATING OPERATIONS. IF CLEANED SURFACES RUST BEFORE COATING IS ACCOMPLISHED, THE SURFACE SHALL BE RE-CLEANED AT THE CONTRACTOR'S EXPENSE.

**MECHANICAL CLEANING:** EXPOSED STRUCTURAL STEEL WHERE MECHANICAL CLEANING IS REQUIRED SHALL BE CLEANED IN ACCORDANCE WITH SSPC-SP2 OR SSPC-SP3. MECHANICAL CLEANING WILL BE REQUIRED FOR AREAS OF RUSTED STEEL, LOOSE, CRACKED, OR BRITTLE PAINT OR AREAS INDICATED BY THE ENGINEER. THE CLEANING SHALL BE PERFORMED 2 INCHES (50 MM) BEYOND THE AREAS OF RUST OR DEFECTIVE PAINT IN ALL DIRECTION OR UNTIL TIGHTLY ADHERED PAINT IS OBTAINED WITH NO RUST OR BLISTERS. EDGES BETWEEN THE BARE STEEL AND PAINT SHALL BE FEATHERED. COLLECTION OF THE MATERIAL REMOVED SHALL BE IN ACCORDANCE WITH SECTION 603.13 OF THE STANDARD SPECIFICATIONS.

**POWER WASH CLEANING:** AFTER COMPLETION OF THE MECHANICAL CLEANING TO THE SATISFACTION OF THE ENGINEER, THE STEEL SHALL BE CLEANED BY A HIGH-PRESSURE POWER WASH TO REMOVE LOOSE PAINT, DIRT, AND OTHER LOOSE DELETERIOUS MATERIAL. IF NECESSARY, SOLVENT CLEANING IN ACCORDANCE WITH SSPC-SP1 SHALL BE EMPLOYED TO AUGMENT THE POWER WASHING. COLLECTION OF THE WASH WATER SHALL BE IN ACCORDANCE WITH SECTION 603.13 OF THE STANDARD SPECIFICATIONS EXCEPT ALL WATER AND DEBRIS FROM WATER WASHING SHALL BE COLLECTED AND NOT ALLOWED TO ENTER THE ENVIRONMENT, REGARDLESS OF TEST RESULTS. AFTER POWER WASHING OPERATION, AREAS THAT HAVE REMAINING RUST OR LOOSE PAINT SHALL BE RE-CLEANED MECHANICALLY AS ABOVE EXCEPT THAT VACUUM POWER TOOLS WILL BE REQUIRED FOR POWER TOOL CLEANING. ALL SURFACES WASHED SHALL BE COMPLETELY FREE OF ALL FOREIGN MATTER, SURFACE DRY AND APPROVED BY THE ENGINEER PRIOR TO APPLICATION OF THE COATING. THE WATER USED FOR POWER WASHING SHALL BE CLEAN, POTABLE WATER, FREE FROM CONTAMINANTS.

**APPLICATION:** COATING SHALL BE APPLIED IN ACCORDANCE WITH THESE PLANS AND THE MANUFACTURER'S RECOMMENDATIONS. THE STEEL SHALL BE FREE OF ALL CLEANING RESIDUES PRIOR TO COATING. AREAS THAT HAVE BEEN CLEANED TO BARE STEEL SHALL BE PRIME COATED ON THE SAME DAY AS THE CLEANING. ANY AREAS THAT RUST PRIOR TO APPLICATION OF THE PRIME COAT SHALL BE RE-CLEANED. THE PRIME COAT SHALL BE APPLIED TO ALL STEEL SURFACES WITH THE EXCEPTION OF STEEL ENCASED IN CONCRETE. ANY EXISTING PAINT THAT CURLS OR LIFTS AFTER APPLICATION OF THE CALCIUM SULFONATE SYSTEM SHALL BE REMOVED, THE AREA RE-CLEANED, AND THE COATING REAPPLIED. APPLICATION OF THE RUST PENETRATING SEALER WILL BE REQUIRED. APPLICATION OF THE RUST PENETRATING SEALER SHALL BE IN ACCORDANCE WITH THE RUST PENETRATING SEALER MANUFACTURER'S RECOMMENDATION.

**COATING THICKNESS MEASUREMENT:** THE DRY FILM THICKNESS OF THE COATINGS WILL BE MEASURED BY MAGNETIC-TYPE GAUGES IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SPECIFICATION SSPC-PA2. AT THE OPTION OF THE ENGINEER, THE ADHESION OF THE PRIME COAT WILL BE MEASURED IN ACCORDANCE WITH ASTM D 3359. TEST METHOD A. WHEN THE ADHESION IS TESTED, EACH TEST RESULT SHALL EQUAL OR EXCEED SCALE 3A. LOCATIONS FOR ADHESIVE TEST SHALL BE RANDOMLY SELECTED. TEST LOCATIONS SHALL BE IN AREAS OF LEAST VISIBILITY IN THE STRUCTURE AND SHALL BE TOUCHED UP IN AN APPROVED MANNER AFTER COMPLETION OF THE TEST. WHEN SATISFACTORY TEST RESULTS ARE NOT OBTAINED, ADDITIONAL ADHESION TESTS SHALL BE TAKEN TO DETERMINE THE AREA OF INSUFFICIENT ADHESION. FOR THESE AREAS, THE SURFACE SHALL BE RE-CLEANED AND THE AREA RECOATED. IF ADDITIONAL PRIME COAT IS REQUIRED TO PROVIDE THE SPECIFIED MINIMUM THICKNESS, THE PRIME COAT SHALL BE APPLIED AS SOON AS POSSIBLE, BUT WITHIN 24 HOURS OF THE INITIAL APPLICATION.

**COATING MATERIAL STORAGE:** ALL COATING MATERIAL SHALL BE STORED IN ACCORDANCE WITH THE COATING MANUFACTURER'S RECOMMENDATIONS. EXPOSURE TO STORAGE TEMPERATURES OUTSIDE THE RANGE RECOMMENDED IN THE MANUFACTURER'S SPECIFICATIONS WILL BE CONSIDERED CAUSE FOR THE REJECTION OF THE COATING MATERIAL.

**TEMPERATURE LIMITATIONS:** THE PRIME COAT SHALL BE APPLIED IN ACCORDANCE WITH THE COATING MANUFACTURER'S RECOMMENDATIONS, EXCEPT THAT THE AIR AND STEEL TEMPERATURE SHALL NOT BE BELOW 40 F (4 C) AND NOT EXCEED 100 F (38 C). FINISH AND INTERMEDIATE COATS APPLIED OVER THE PRIME COAT SHALL BE APPLIED IN ACCORDANCE WITH THE COATING MANUFACTURER'S RECOMMENDATIONS, WHICH SHALL BE FURNISHED TO THE ENGINEER. THE MINIMUMS AND MAXIMUMS OR ADDITIONAL REQUIREMENTS ESTABLISHED BY THE COATING MANUFACTURER'S WRITTEN SPECIFICATIONS FOR RECOMMENDED AIR OR METAL TEMPERATURE OR RELATIVE HUMIDITY WILL APPLY IF THOSE REQUIREMENTS ARE MORE RESTRICTIVE THAN THOSE SPECIFIED IN THE CONTRACT DOCUMENTS.

**MOISTURE LIMITATIONS:** COATINGS SHALL NOT BE APPLIED IN RAIN, SNOW, FOG OR MIST, OR WHEN THE STEEL TEMPERATURE IS LESS THAN 5 F (3 C) ABOVE THE DEW POINT, OR ABOVE 85% RELATIVE HUMIDITY. RELATIVE HUMIDITY SHALL BE MEASURED USING A SLING PSYCHROMETER OR ANOTHER METHOD APPROVED BY THE ENGINEER. COATINGS SHALL NOT BE APPLIED TO WET, DAMP, FROSTED, OR ICE-COATED SURFACES.

**APPLICATION IN PROTECTED AREAS:** WHEN COATINGS ARE APPLIED IN A PROTECTED AREA TO ELIMINATE WEATHER CONDITIONS, THE COATED STEEL SHALL REMAIN IN THE PROTECTED AREA UNTIL THE COATINGS ARE CURED.

**DAMAGED COATINGS:** ANY UNCURED COATINGS EXPOSED TO FREEZING, EXCESS HUMIDITY, RAIN, SNOW, CONDENSATION, OR CURING TEMPERATURES OUTSIDE THE RANGE RECOMMENDED BY THE MANUFACTURER WILL BE CONSIDERED DAMAGED. DAMAGED COATINGS SHALL BE PERMITTED TO DRY, THEN SHALL BE REMOVED AND THE SURFACE CLEANED AND RECOATED AT THE CONTRACTOR'S EXPENSE.

**THINNING:** THINNERS WILL BE PERMITTED AS RECOMMENDED BY THE MANUFACTURER'S RECOMMENDATIONS, PROVIDED VOC LIMITS ARE NOT EXCEEDED.

**APPLICATION:** COATINGS SHALL BE APPLIED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL, SSPC-PA1, UNLESS OTHERWISE SPECIFIED BY THE PRODUCT MANUFACTURER. THE MANUFACTURER'S WRITTEN SPECIFICATION FOR APPLICATION, UPON REQUEST, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO APPLICATION.

**APPLICATION REPAIRS:** IF DEFICIENCIES IN THE QUALITY OF WORK OR MATERIAL RESULT IN REJECTION, THE CONTRACTOR SHALL SUBMIT A REPAIR PROPOSAL FOR THE APPROVAL OF THE ENGINEER.

**CURING OF COATINGS:** CURING TIME FOR RECOATING SHALL BE WITHIN THE LIMITS OF THE MANUFACTURER'S RECOMMENDATIONS. APPLICATION OF THE FINISH COAT OVER THE INTERMEDIATE COAT SHALL BE ACCOMPLISHED WITHIN THE RECOAT TIME FOR PROPER ADHESION ESTABLISHED BY THE MANUFACTURER'S RECOMMENDATIONS.

## QUALIFIED BRANDS AND MANUFACTURERS OF CALCIUM SULFONATE OVERCOAT SYSTEM

BRAND	MANUFACTURER
CALCIUM SULFONATE TOPCOAT (ARMOR-SHIELD AS8301, GRAY) (ARMOR-SHIELD AS8304, BROWN) (ARMOR-SHIELD AS8301, GREEN) (ARMOR-SHIELD AS8301, TAN)	WATSON COATINGS 325 PAUL AVENUE ST. LOUIS, MO 63135
CALCIUM SULFONATE PRIMER (ARMOR-SHIELD AS8300, RED OXIDE PRIMER)	WATSON COATINGS 325 PAUL AVENUE ST. LOUIS, MO 63135
CALCIUM SULFONATE PENETRATING SEALER (ARMOR-SHIELD AS8201, RED OXIDE PRIMER)	WATSON COATINGS 325 PAUL AVENUE ST. LOUIS, MO 63135
CALCIUM SULFONATE TOPCOAT (855A200, GRAY) (855N200, BROWN) (855H200, TAN) (855G200, GREEN)	THE SHERWIN-WILLIAMS CO. 101 PROSPECT AVENUE N.W. CLEVELAND, OH 44115
CALCIUM SULFONATE PRIMER (855N201, RED OXIDE)	THE SHERWIN-WILLIAMS CO. 101 PROSPECT AVENUE N.W. CLEVELAND, OH 44115
CALCIUM SULFONATE PENETRATING SEALER (855N202, RED OXIDE)	THE SHERWIN-WILLIAMS CO. 101 PROSPECT AVENUE N.W. CLEVELAND, OH 44115
CALCIUM SULFONATE TOPCOAT (SULFONATE 12-826, GRAY) (SULFONATE 12-835, BROWN)	WATERLAC COATINGS 100 INDUSTRIAL DRIVE CUBA, MO 65453
CALCIUM SULFONATE PRIMER (SULFONATE 12-836)	WATERLAC COATINGS 100 INDUSTRIAL DRIVE CUBA, MO 65453
CALCIUM SULFONATE PENETRATING SEALER (SULFONATE 12-837 PENNATRATE)	WATERLAC COATINGS 100 INDUSTRIAL DRIVE CUBA, MO 65453

UNOFFICIAL  
SET

NOT FOR  
BIDDING

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

INTERSTATE 155 OVER MISSISSIPPI RIVER  
BRIDGE NO. 23-1155-0.00

DYER COUNTY  
2015





TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	23001-3173-94	5A
MODOT PROJECT NO.		J910388	
FED AID PROJECT NO.		BH-1-155-(119)	

PROJECT COMMITMENTS

COMMITMENT ID	SOURCE DIVISION	DESCRIPTION	STA./LOCATION
EDHZ001	ENVIRONMENTAL DIVISION, HAZARDOUS MATERIALS	AN ASBESTOS CONTAINING MATERIAL (ACM) SURVEY WAS CONDUCTED ON BRIDGE NO. 23101550001, I-155 OVER MISSISSIPPI RIVER, LM 0.00. ASBESTOS WAS DETECTED IN THE YELLOW TEXTURE COAT ON THE ABUTMENT AND EXTERIOR OF THE PARAPET IN THE AREA OF BENTS 26-60 AND IN THE WHITE TEXTURE COAT ON THE PARAPETS IN THE AREA OF BENTS 1-26. ALL MATERIAL OF THIS NATURE SHOULD BE TREATED AS ASBESTOS-CONTAINING. ABATEMENT OF THIS MATERIAL SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. ACM ABATEMENT SHOULD BE COMPLETED PRIOR TO ANY REPAIR ACTIVITIES. IF MORE THAN 160 SQUARE FEET OF THE ACM WILL BE DISTURBED, THE CONTRACTOR WILL BE REQUIRED TO SUBMIT THE NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS STANDARD 10-DAY NOTICE OF DEMOLITION TO THE TENNESSEE DIVISION OF AIR POLLUTION CONTROL (STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2015) SECTIONS 107.08 D AND 202.03).	PARAPET TEXTURE COAT (BENTS 1-26 BENTS 26-60)

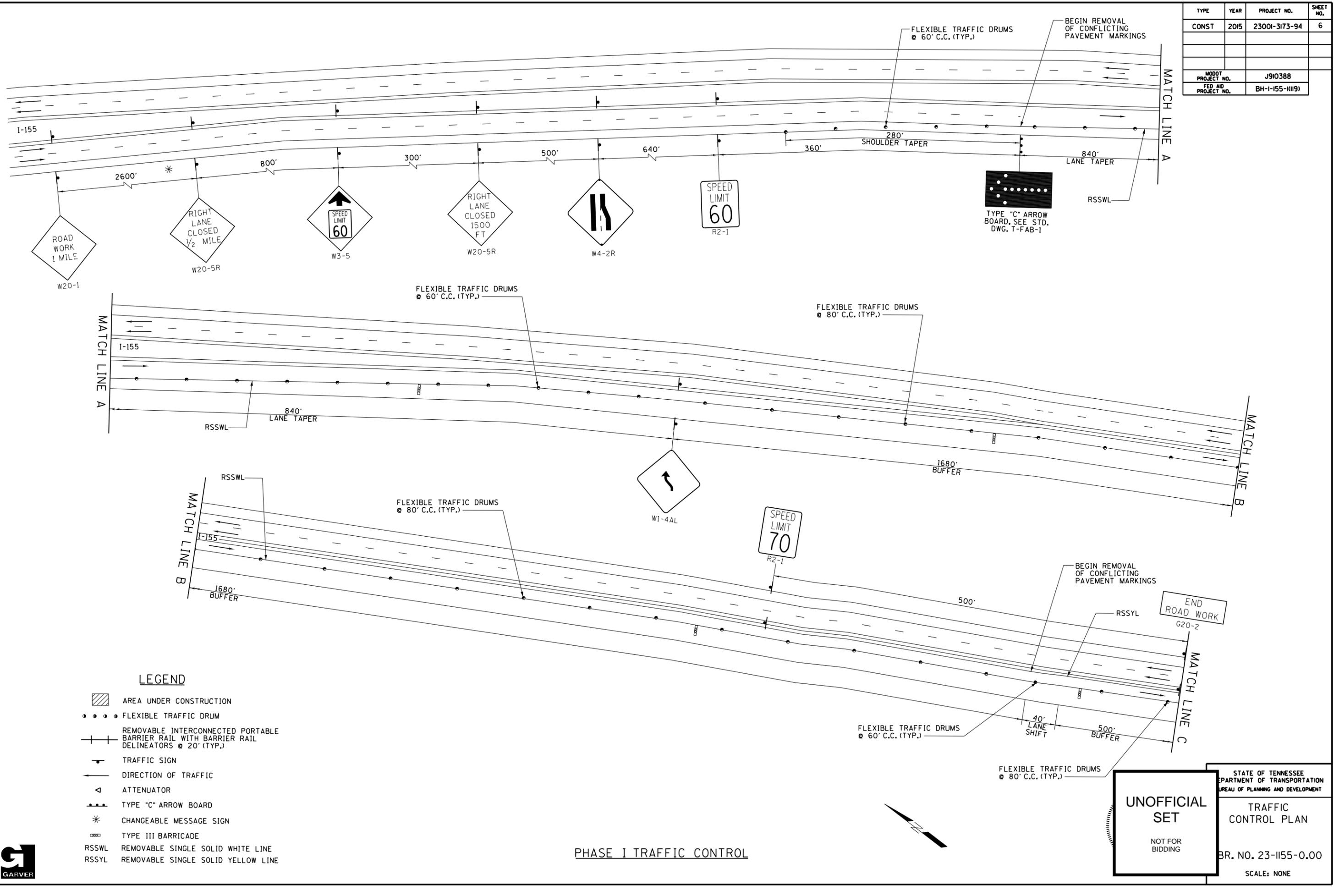
1/13/2015 2:32:43 PM  
 M:\WORKSPACE\_TDOT\Bridge\05001001634 - TDOT - Bridge Repair over Mississippi Riv\Drawings\BRG\Final\05-Sheet 5A.dgn



**UNOFFICIAL SET**  
  
 NOT FOR BIDDING

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF PLANNING AND DEVELOPMENT  
  
 PROJECT COMMITMENTS  
  
 SCALE: NONE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	23001-3173-94	6
MDDOT PROJECT NO.		J910388	
FED AID PROJECT NO.		BH-1-155-(1119)	



**LEGEND**

- AREA UNDER CONSTRUCTION
- FLEXIBLE TRAFFIC DRUM
- REMOVABLE INTERCONNECTED PORTABLE BARRIER RAIL WITH BARRIER RAIL DELINEATORS @ 20' (TYP.)
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- ATTENUATOR
- TYPE "C" ARROW BOARD
- CHANGEABLE MESSAGE SIGN
- TYPE III BARRICADE
- REMOVABLE SINGLE SOLID WHITE LINE
- REMOVABLE SINGLE SOLID YELLOW LINE

**PHASE I TRAFFIC CONTROL**

**UNOFFICIAL SET**

NOT FOR BIDDING

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF PLANNING AND DEVELOPMENT

TRAFFIC CONTROL PLAN

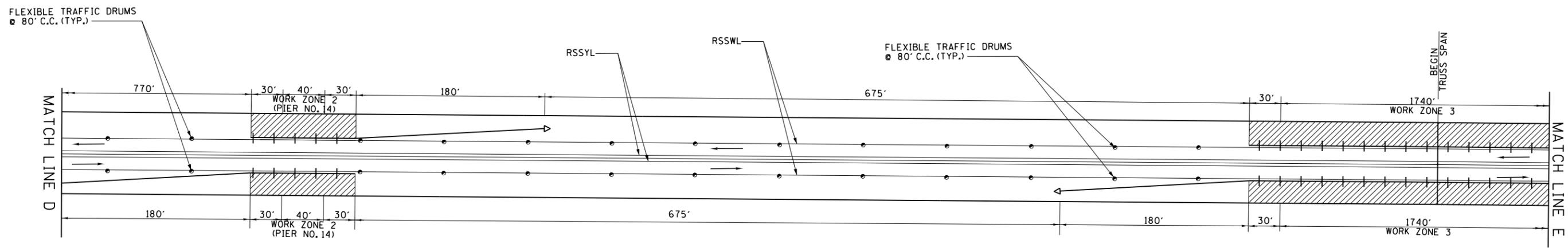
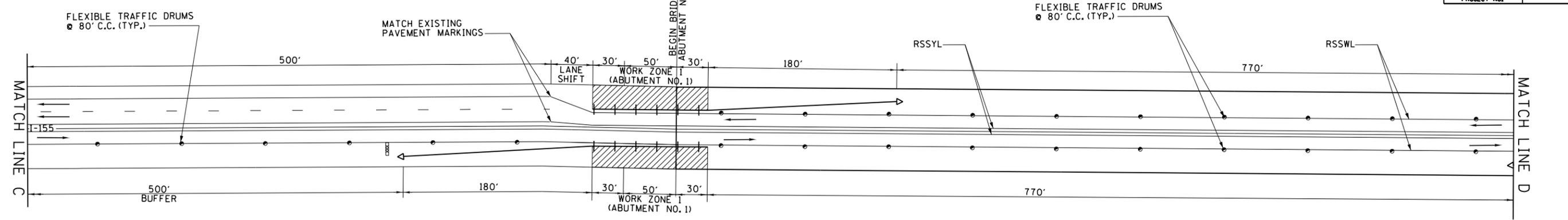
BR. NO. 23-1155-0.00

SCALE: NONE

10/16/2014 11:03:41AM  
 WORKSPACE: TDOT Bridge Repair - over Mississippi R1\Drawings\BRG\Final\TC-H.dwg  
 A:\DOT\DOT634 - TDOT - Bridge Repair - over Mississippi R1\Drawings\BRG\Final\TC-H.dwg



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	23001-3173-94	7
MDDOT PROJECT NO.		J910388	
FED AID PROJECT NO.		BH-1-155-K(119)	



**LEGEND**

- AREA UNDER CONSTRUCTION
- FLEXIBLE TRAFFIC DRUM
- REMOVABLE INTERCONNECTED PORTABLE BARRIER RAIL WITH BARRIER RAIL DELINEATORS @ 20' (TYP.)
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- ATTENUATOR
- TYPE "C" ARROW BOARD
- CHANGEABLE MESSAGE SIGN
- TYPE III BARRICADE
- RSSWL REMOVABLE SINGLE SOLID WHITE LINE
- RSSYL REMOVABLE SINGLE SOLID YELLOW LINE



**UNOFFICIAL SET**  
NOT FOR BIDDING

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF PLANNING AND DEVELOPMENT

TRAFFIC CONTROL PLAN

BR. NO. 23-1155-0.00

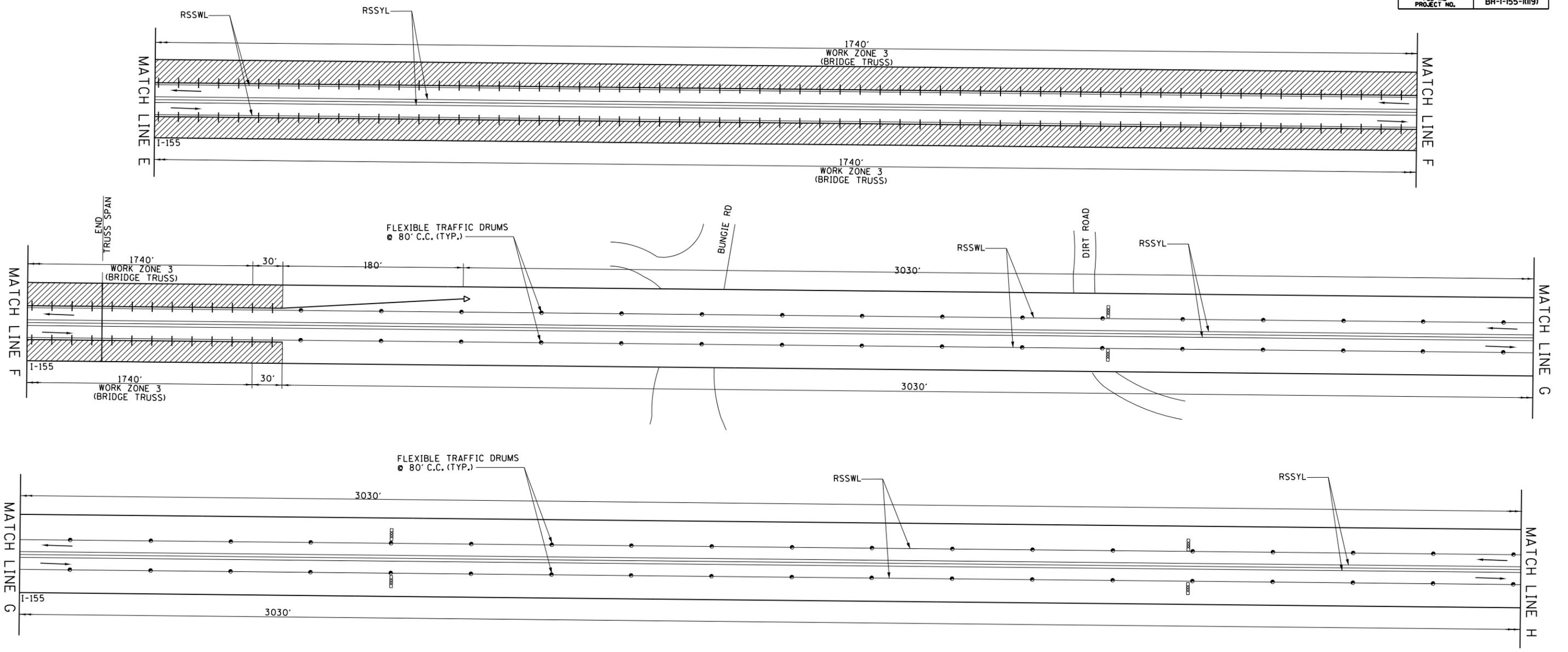
SCALE: NONE

**PHASE I TRAFFIC CONTROL**

10/16/2014 11:03:42 AM  
 WORKSPACE: TDOT - Bridge Repair - over: Mississippis R1\Drawings\BRG\Final\TC-1-2.dgn  
 PLOT: 10/16/2014 11:03:42 AM



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	23001-3173-94	8
MODOT PROJECT NO.		J910388	
FED AID PROJECT NO.		BH-1-155-(119)	



**LEGEND**

- AREA UNDER CONSTRUCTION
- FLEXIBLE TRAFFIC DRUM
- REMOVABLE INTERCONNECTED PORTABLE BARRIER RAIL WITH BARRIER RAIL DELINEATORS @ 20' (TYP.)
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- ATTENUATOR
- TYPE "C" ARROW BOARD
- CHANGEABLE MESSAGE SIGN
- TYPE III BARRICADE
- RSSWL REMOVABLE SINGLE SOLID WHITE LINE
- RSSYL REMOVABLE SINGLE SOLID YELLOW LINE



**UNOFFICIAL SET**  
NOT FOR BIDDING

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF PLANNING AND DEVELOPMENT

TRAFFIC CONTROL PLAN

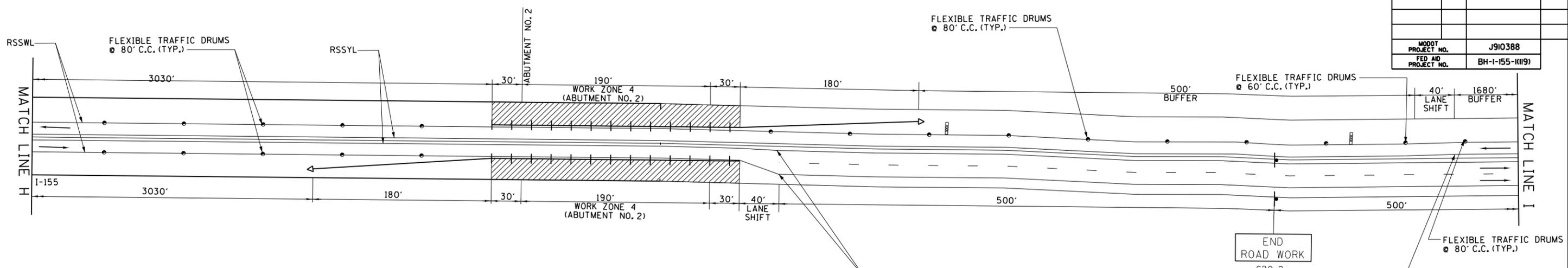
BR. NO. 23-1155-0.00  
SCALE: NONE

**PHASE I TRAFFIC CONTROL**

10/16/2014 11:03:42 AM  
 WORKSPACE: TDOT - Bridge  
 P:\2010\0017634 - TDOT - Bridge Repair - over\_Mississippi\RD\Drawings\BRG\Final\TC-1-3.dgn

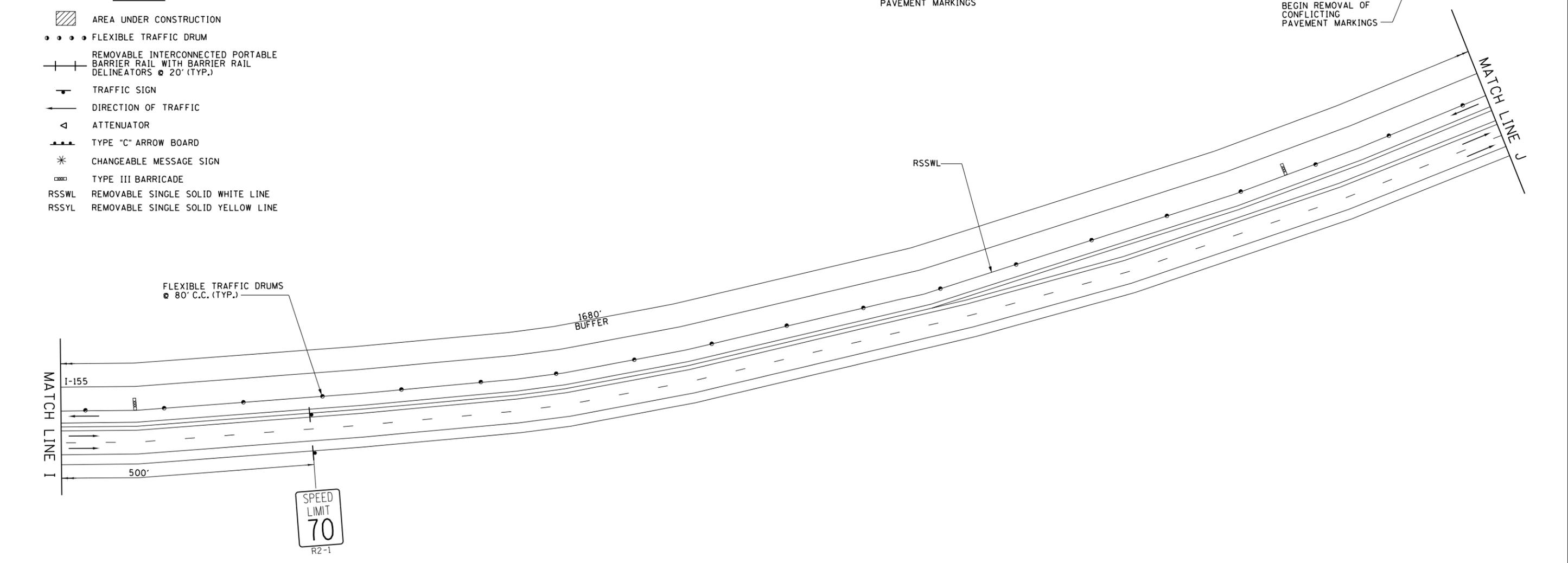


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	2300I-3173-94	9
MODOT PROJECT NO.		J910388	
FED AID PROJECT NO.		BH-1-155-(119)	



**LEGEND**

- AREA UNDER CONSTRUCTION
- FLEXIBLE TRAFFIC DRUM
- REMOVABLE INTERCONNECTED PORTABLE BARRIER RAIL WITH BARRIER RAIL DELINEATORS @ 20' (TYP.)
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- ATTENUATOR
- TYPE "C" ARROW BOARD
- CHANGEABLE MESSAGE SIGN
- TYPE III BARRICADE
- RSSWL REMOVABLE SINGLE SOLID WHITE LINE
- RSSYL REMOVABLE SINGLE SOLID YELLOW LINE



10/16/2014 11:03:43 AM  
 WORKSPACE: TDOT - Bridge Repair - over - Missisippi R1\Drawings\BRG\Final\TC-1-4.dgn  
 PLOT: 10/16/2014 11:03:43 AM



**PHASE I TRAFFIC CONTROL**

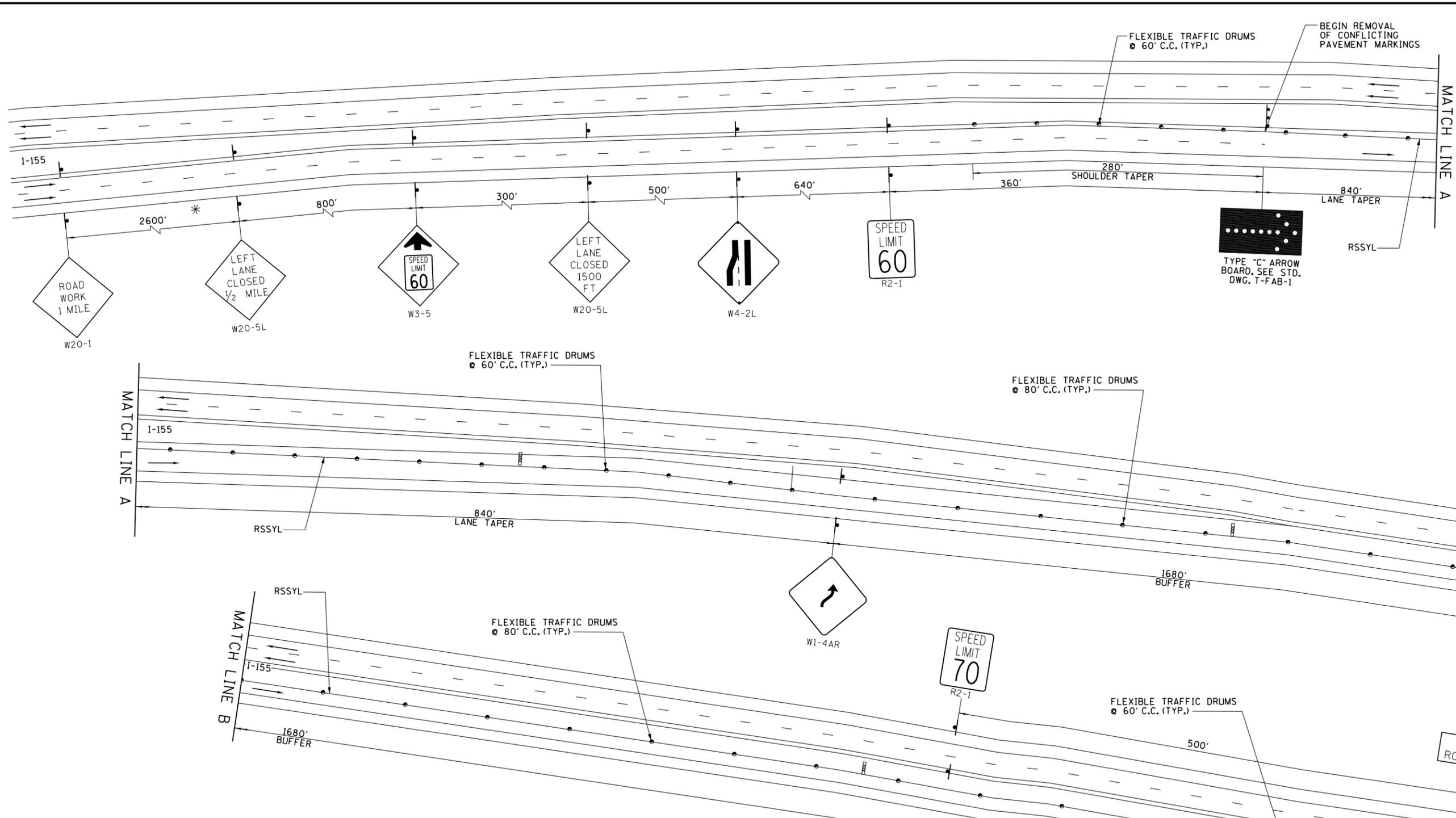


**UNOFFICIAL SET**  
 NOT FOR BIDDING

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF PLANNING AND DEVELOPMENT  
  
 TRAFFIC CONTROL PLAN  
  
 BR. NO. 23-1155-0.00  
 SCALE: NONE



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	23001-3173-94	II
MODOT PROJECT NO.		J910388	
FED AID PROJECT NO.		BH-1-155-(1119)	



- LEGEND**
- AREA UNDER CONSTRUCTION
  - FLEXIBLE TRAFFIC DRUM
  - REMOVABLE INTERCONNECTED PORTABLE BARRIER RAIL WITH BARRIER RAIL DELINEATORS @ 20' (TYP.)
  - TRAFFIC SIGN
  - DIRECTION OF TRAFFIC
  - ATTENUATOR
  - TYPE "C" ARROW BOARD
  - CHANGEABLE MESSAGE SIGN
  - TYPE III BARRICADE
  - RSSWL REMOVABLE SINGLE SOLID WHITE LINE
  - RSSYL REMOVABLE SINGLE SOLID YELLOW LINE

**PHASE II TRAFFIC CONTROL**



**UNOFFICIAL SET**  
NOT FOR BIDDING

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF PLANNING AND DEVELOPMENT

TRAFFIC CONTROL PLAN

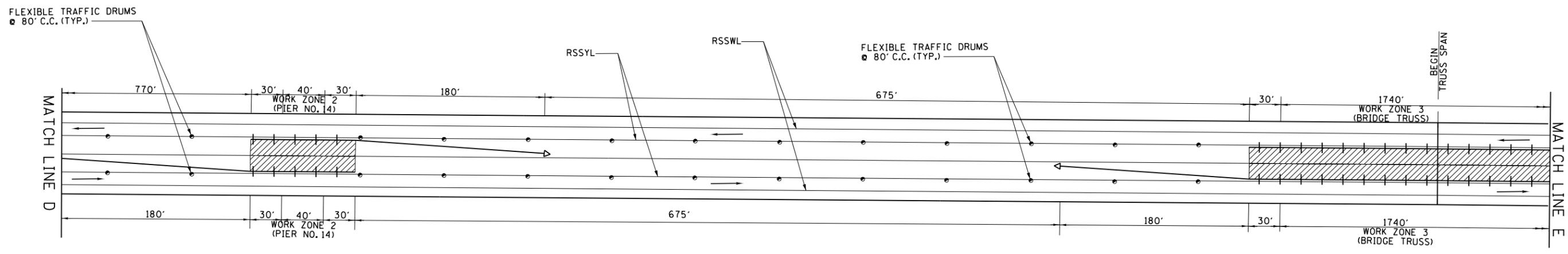
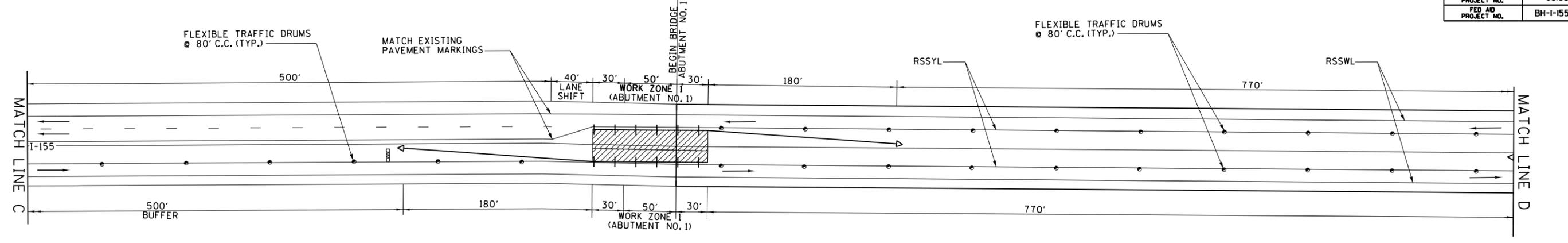
BR. NO. 23-1155-0.00

SCALE: NONE

10/16/2014 11:03:44 AM  
 WORKSPACE: TDOT - Bridge Repair - over\_Mississippi.R1\Drawings\BRG\Final\TC-2-L.dgn  
 A:\DOT\DOT\634 - TDOT - Bridge Repair - over\_Mississippi.R1\Drawings\BRG\Final\TC-2-L.dgn



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	23001-3173-94	12
MDDOT PROJECT NO.		J910388	
FED AID PROJECT NO.		BH-1-155-(K119)	



**LEGEND**

- AREA UNDER CONSTRUCTION
- FLEXIBLE TRAFFIC DRUM
- REMOVABLE INTERCONNECTED PORTABLE BARRIER RAIL WITH BARRIER RAIL DELINEATORS @ 20' (TYP.)
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- ATTENUATOR
- TYPE "C" ARROW BOARD
- CHANGEABLE MESSAGE SIGN
- TYPE III BARRICADE
- RSSWL REMOVABLE SINGLE SOLID WHITE LINE
- RSSYL REMOVABLE SINGLE SOLID YELLOW LINE



**UNOFFICIAL SET**  
NOT FOR BIDDING

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF PLANNING AND DEVELOPMENT

TRAFFIC CONTROL PLAN

BR. NO. 23-1155-0.00

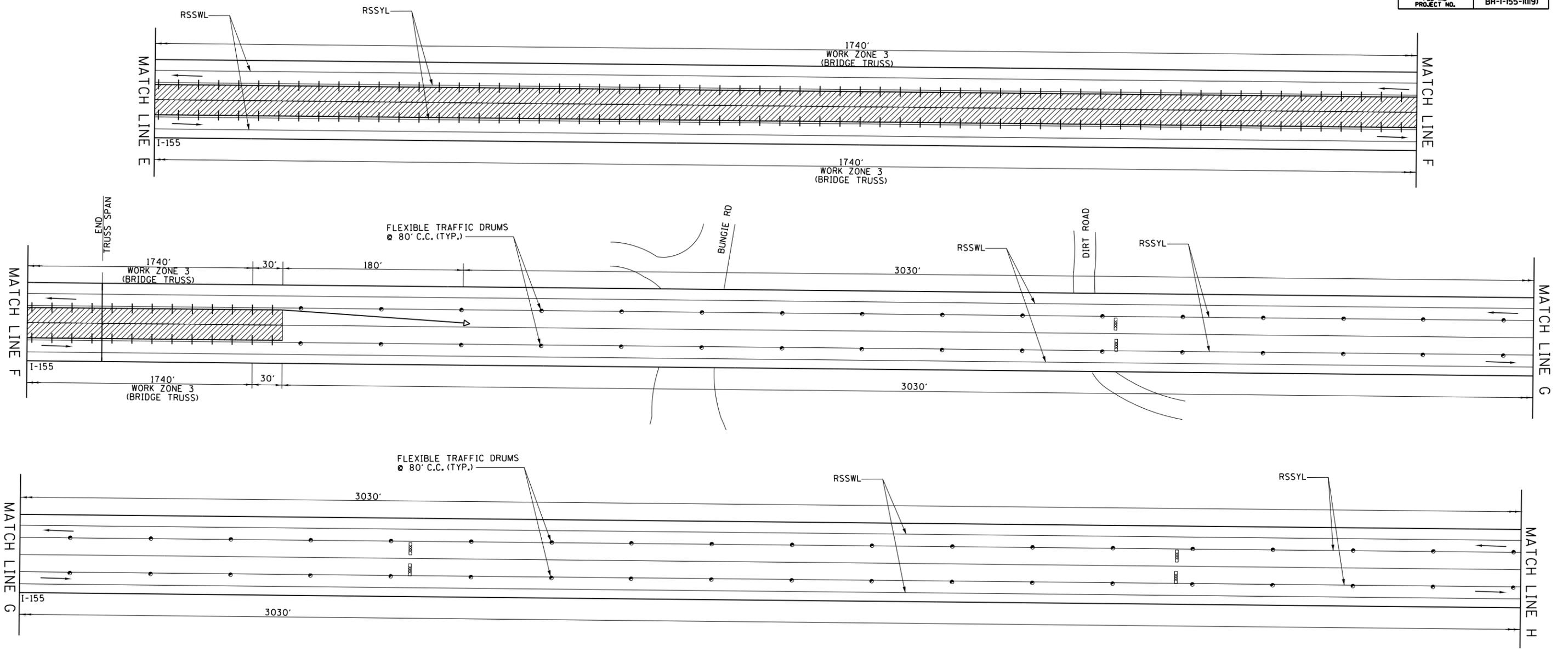
SCALE: NONE

**PHASE II TRAFFIC CONTROL**

10/16/2014 11:03:44 AM  
WORKSPACE: TDOT - Bridge  
P:\300\1001634 - TDOT - Bridge Repair - over Mississippi R1\Drawings\BRG\Final\TC-2.dgn



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	23001-3173-94	13
MODOT PROJECT NO.		J910388	
FED AID PROJECT NO.		BH-1-155-(119)	



**LEGEND**

- AREA UNDER CONSTRUCTION
- FLEXIBLE TRAFFIC DRUM
- REMOVABLE INTERCONNECTED PORTABLE BARRIER RAIL WITH BARRIER RAIL DELINEATORS @ 20' (TYP.)
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- ATTENUATOR
- TYPE "C" ARROW BOARD
- CHANGEABLE MESSAGE SIGN
- TYPE III BARRICADE
- RSSWL REMOVABLE SINGLE SOLID WHITE LINE
- RSSYL REMOVABLE SINGLE SOLID YELLOW LINE



**PHASE II TRAFFIC CONTROL**

**UNOFFICIAL SET**  
NOT FOR BIDDING

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF PLANNING AND DEVELOPMENT

TRAFFIC CONTROL PLAN

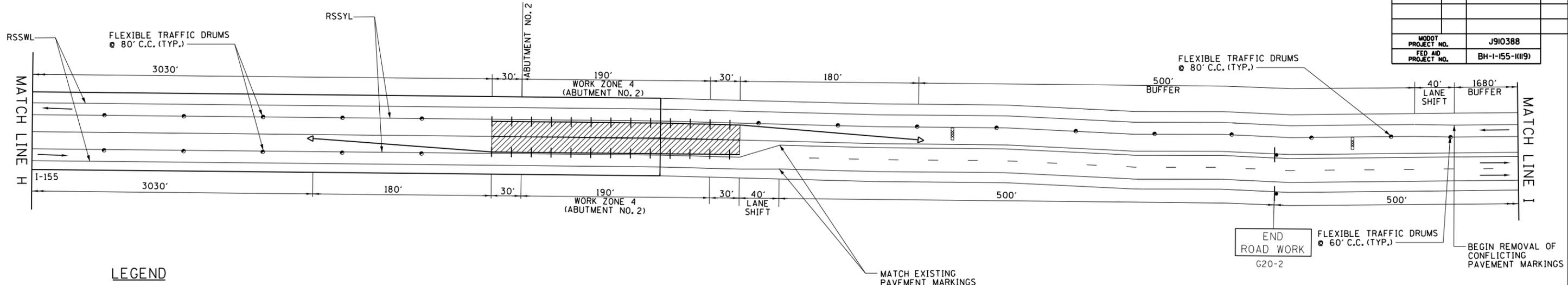
BR. NO. 23-1155-0.00

SCALE: NONE

LIC:cbos 10/16/2014 11:03:45 AM WORKSPACE: TDOT - Bridge 23-1155-0001634 - TDOT - Bridge Repair - over\_Mississippi.RD.dwg BRG:Vfinal\TC-2-3.dgn

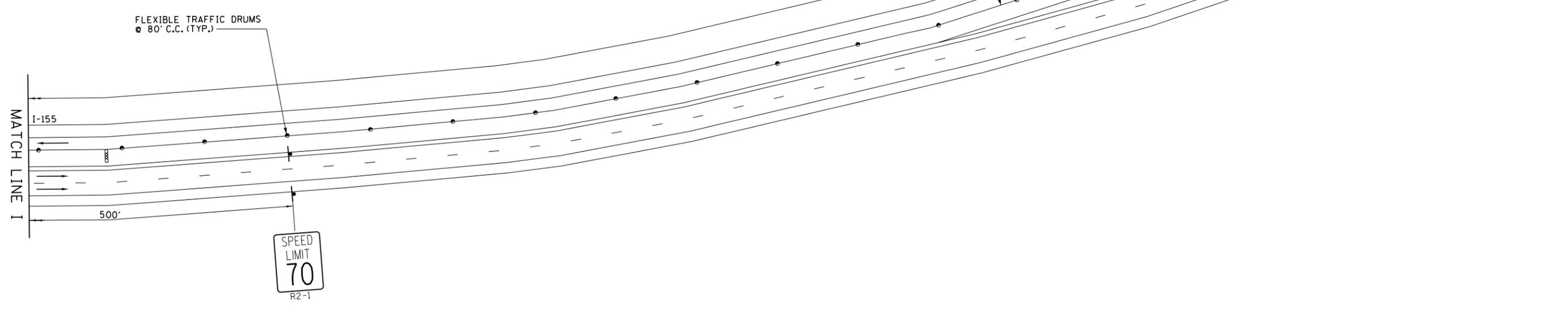


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	2300I-3173-94	14
MODOT PROJECT NO.		J910388	
FED AID PROJECT NO.		BH-1-155-(119)	



**LEGEND**

- AREA UNDER CONSTRUCTION
- FLEXIBLE TRAFFIC DRUM
- REMOVABLE INTERCONNECTED PORTABLE BARRIER RAIL WITH BARRIER RAIL DELINEATORS @ 20' (TYP.)
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- ATTENUATOR
- TYPE "C" ARROW BOARD
- CHANGEABLE MESSAGE SIGN
- TYPE III BARRICADE
- RSSWL REMOVABLE SINGLE SOLID WHITE LINE
- RSSYL REMOVABLE SINGLE SOLID YELLOW LINE



**UNOFFICIAL SET**  
NOT FOR BIDDING

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF PLANNING AND DEVELOPMENT

TRAFFIC CONTROL PLAN

BR. NO. 23-1155-0.00

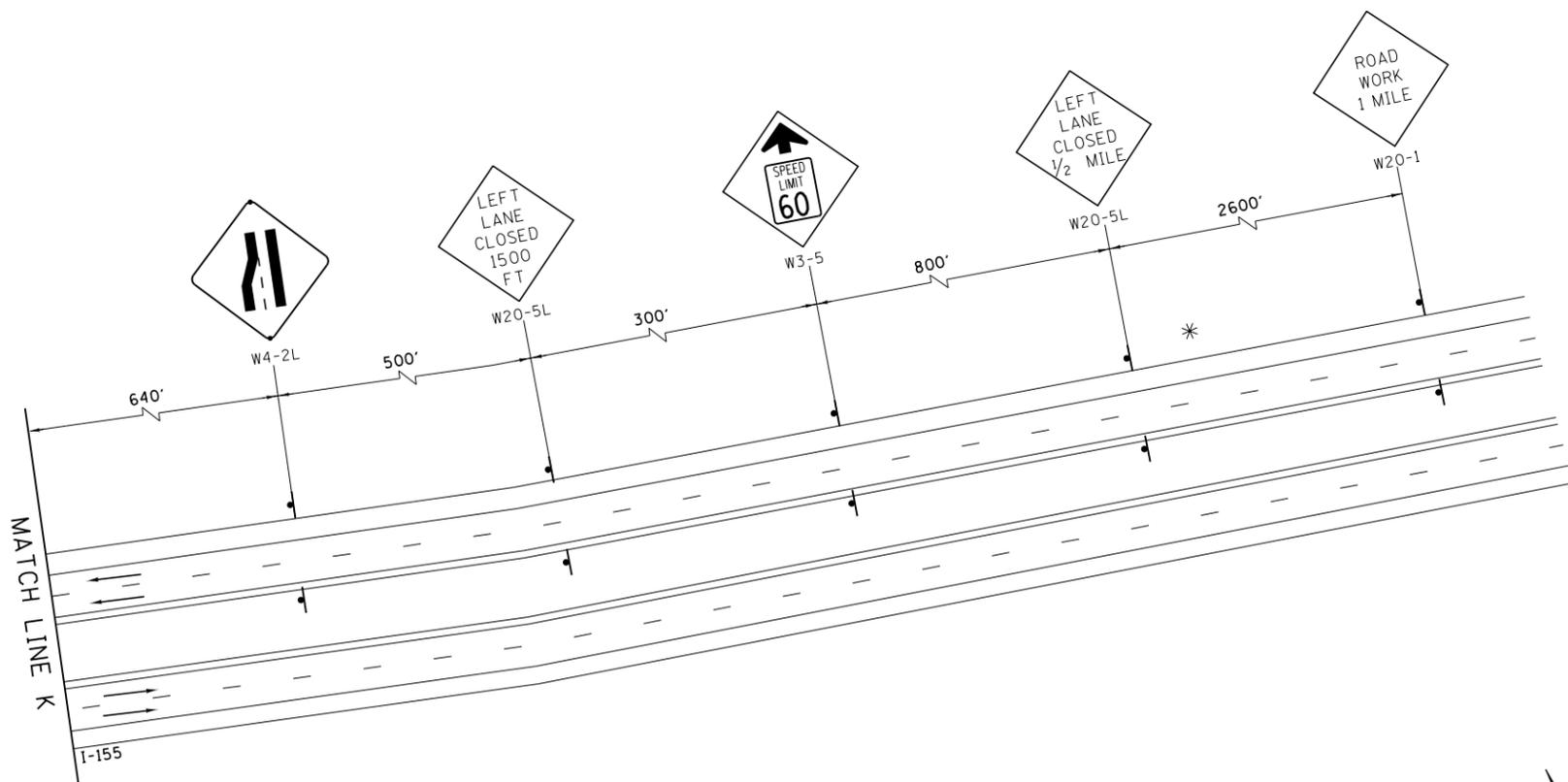
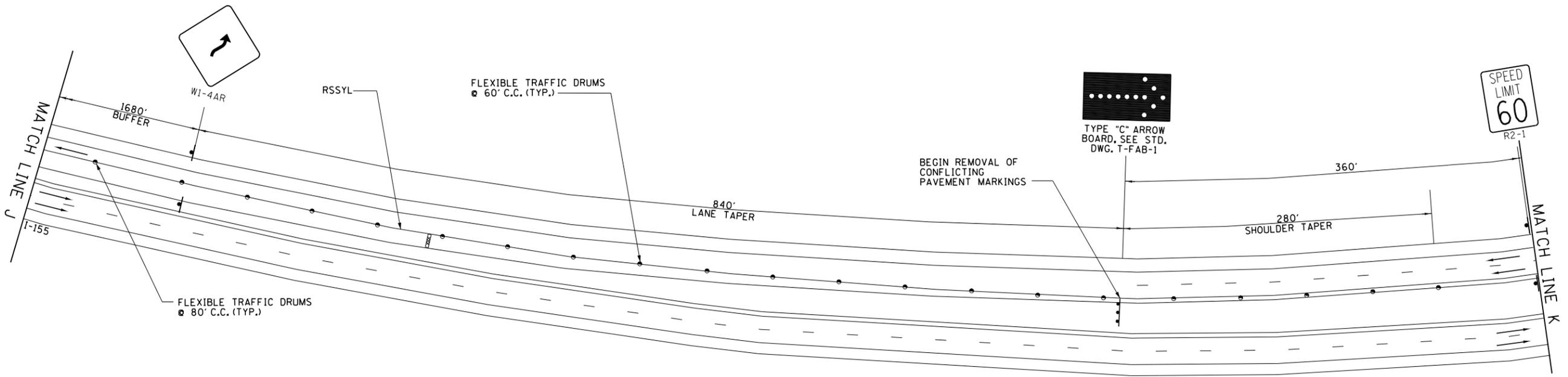
SCALE: NONE

**PHASE II TRAFFIC CONTROL**

10/16/2014 11:03:45 AM  
WORKSPACE: TDOT - Bridge Repair - over - Missisippi Rd Drawings\BRG\Final\TC-2-4.dgn  
PLOT: 10/16/2014 11:03:45 AM



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	23001-3173-94	15
MDDOT PROJECT NO.		J910388	
FED AID PROJECT NO.		BH-1-155-(119)	



- LEGEND**
- AREA UNDER CONSTRUCTION
  - FLEXIBLE TRAFFIC DRUM
  - REMOVABLE INTERCONNECTED PORTABLE BARRIER RAIL WITH BARRIER RAIL DELINEATORS 20' (TYP.)
  - TRAFFIC SIGN
  - DIRECTION OF TRAFFIC
  - ATTENUATOR
  - TYPE "C" ARROW BOARD
  - CHANGEABLE MESSAGE SIGN
  - TYPE III BARRICADE
  - RSSWL REMOVABLE SINGLE SOLID WHITE LINE
  - RSSYL REMOVABLE SINGLE SOLID YELLOW LINE

**UNOFFICIAL SET**

NOT FOR BIDDING

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF PLANNING AND DEVELOPMENT

TRAFFIC CONTROL PLAN

BR. NO. 23-1155-0.00

SCALE: NONE

**PHASE II TRAFFIC CONTROL**

10/16/2014 11:03:46 AM  
 WORKSPACE: TDOT - Bridge Repair - over Mississippi R1\Drawings\BRG\Final\TC-2.dgn  
 PLOT: 10/16/2014 11:03:46 AM



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	2300I-3173-94	16
MODOT PROJECT NO.		J910388	
FED AID PROJECT NO.		BH-1-155-(1119)	

CONSTRUCTION SIGNS (TOTAL)						
DESCRIPTION	MUTCD NUMBER	SIZE	0.00 R&L		BID QUANT.	TOTAL AREA (S.F.)
			I	II		
			END ROAD WORK	G20-2		
SPEED LIMIT XX MPH	R2-1	36X48	8	8	8	96
LANE SHIFT (LEFT)	W1-4AL	48X48	4	-	4	64
LANE SHIFT (RIGHT)	W1-4AR	48X48	-	4	4	64
SPEED LIMIT 60 MPH AHEAD	W3-5	48X48	4	4	4	64
LANE ENDS (LEFT)	W4-2L	48X48	-	4	4	64
LANE ENDS (RIGHT)	W4-2R	48X48	4	-	4	64
ROAD WORK 1 MILE	W20-1	48X48	4	4	4	64
LEFT LANE CLOSED 1500 FT.	W20-5L	48X48	-	4	4	64
LEFT LANE CLOSED 1/2 MILE	W20-5L	48X48	-	4	4	64
RIGHT LANE CLOSED 1500 FT.	W20-5R	48X48	4	-	4	64
RIGHT LANE CLOSE 1/2 MILE	W20-5R	48X48	4	-	4	64
<b>TOTAL</b>						<b>768</b>

CONSTRUCTION SIGNS (PER STATE)												
DESCRIPTION	MUTCD NUMBER	SIZE	MODOT				TDOT				TOTAL	
			0.00 R&L		BID QUANT.	AREA (S.F.)	0.00 R&L		BID QUANT.	AREA (S.F.)	BID QUANT.	TOTAL AREA (S.F.)
			I	II			I	II				
END ROAD WORK	G20-2	48X24	2	2	2	16	2	2	2	16	4	32
SPEED LIMIT XX MPH	R2-1	36X48	4	4	4	48	4	4	4	48	8	96
LANE SHIFT (LEFT)	W1-4AL	48X48	2	-	2	32	2	-	2	32	4	64
LANE SHIFT (RIGHT)	W1-4AR	48X48	-	2	2	32	-	2	2	32	4	64
SPEED LIMIT 60 MPH AHEAD	W3-5	48X48	2	2	2	32	2	2	2	32	4	64
LANE ENDS (LEFT)	W4-2L	48X48	-	2	2	32	-	2	2	32	4	64
LANE ENDS (RIGHT)	W4-2R	48X48	2	-	2	32	2	-	2	32	4	64
ROAD WORK 1 MILE	W20-1	48X48	2	2	2	32	2	2	2	32	4	64
LEFT LANE CLOSED 1500 FT.	W20-5L	48X48	-	2	2	32	-	2	2	32	4	64
LEFT LANE CLOSED 1/2 MILE	W20-5L	48X48	-	2	2	32	-	2	2	32	4	64
RIGHT LANE CLOSED 1500 FT.	W20-5R	48X48	2	-	4	32	2	-	2	32	4	64
RIGHT LANE CLOSE 1/2 MILE	W20-5R	48X48	2	-	2	32	2	-	2	32	4	64
<b>TOTAL</b>						<b>384</b>	<b>TOTAL</b>		<b>384</b>	<b>TOTAL</b>		<b>768</b>

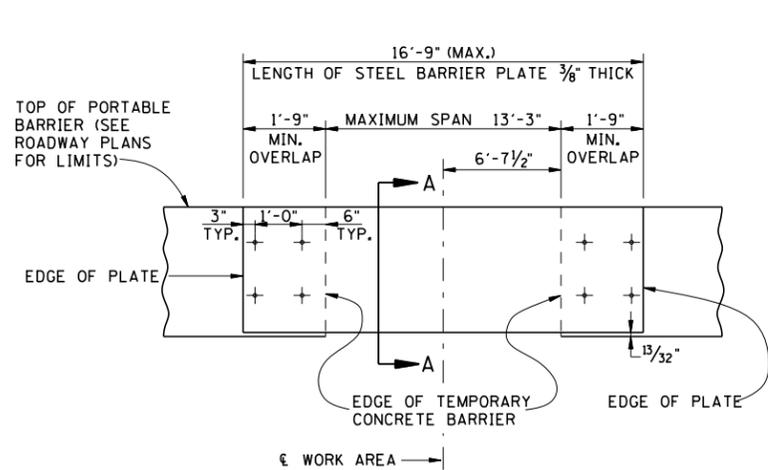
TRAFFIC CONTROL QUANTITIES (TOTAL)					
ITEM NO.	DESCRIPTION	UNIT	0.00 R&L		TOTAL
			I	II	
705-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	452	452	452
705-08.51	PORTABLE IMPACT ATTENUATOR (NCHRP 350-TL3)	EACH	8	8	8
712-01	TRAFFIC CONTROL	L.S.	0.50	0.50	1.00
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	5960	5960	5960
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	225	225	225
712-06	SIGNS (CONSTRUCTION)	SQ. FT.	512	512	768
712-07.03	TEMPORARY BARRICADES (TYPE III)	EACH	16	16	16
712-08.03	ARROW BOARD (TYPE C)	EACH	2	2	2
712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	37180	37180	74360
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2	2	2

TRAFFIC CONTROL QUANTITIES (PER STATE)									
ITEM NO.	DESCRIPTION	UNIT	MODOT		TDOT		TOTAL		
			0.00 R&L		0.00 R&L				
705-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	222	222	230	230	452		
705-08.51	PORTABLE IMPACT ATTENUATOR (NCHRP 350-TL3)	EACH	5	5	3	3	8		
712-01	TRAFFIC CONTROL	L.S.	0.25	0.25	0.25	0.25	1.00		
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	3120	3120	2840	2840	5960		
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	95	95	130	130	225		
712-06	SIGNS (CONSTRUCTION)	SQ. FT.	256	256	256	256	768		
712-07.03	TEMPORARY BARRICADES (TYPE III)	EACH	5	5	11	11	16		
712-08.03	ARROW BOARD (TYPE C)	EACH	1	1	1	1	2		
712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	15700	15700	21480	21480	74360		
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	1	1	1	1	2		

**NOTES:**

1. THE CONSTRUCTION SIGNING PLANS ON SHEETS 6 THRU 15 ARE TO SERVE AS A GUIDE ONLY. OTHER SIGNS MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.
2. THE TRAFFIC CONTROL PLANS DO NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES."
3. IF ADDITIONAL SIGNS ARE DEEMED NECESSARY BY THE ENGINEER, THEY SHALL BE FURNISHED AND INSTALLED AT THE UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION).

**PHASE I & II TRAFFIC CONTROL**



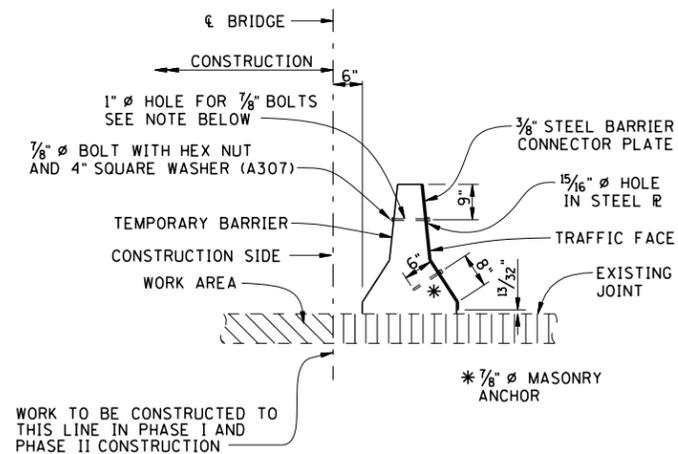
**ELEVATION SHOWING PORTABLE STEEL BARRIER CONNECTOR PLATE**

**NOTE:**

CONTRACTOR SHALL INSTALL A 3/8" THICK STEEL CONNECTOR PLATE TO THE PORTABLE CONCRETE BARRIERS IN AREAS WHERE NEEDED TO FACILITATE CONSTRUCTION. THE STEEL CONNECTOR PLATES ARE TO BE REMOVED AND REPLACED IN PHASE I AND PHASE II CONSTRUCTION. DETAILS SHOWN ARE FOR PHASE I CONSTRUCTION. THE CONNECTOR PLATES SHALL BE USED ON THE OPPOSITE SIDE DURING PHASE II CONST. 1" DIA. HOLES MAY BE REUSED FOR PHASE II CONSTRUCTION WITH NEW HOLES FOR BOTTOM MASONRY ANCHORS.

**NOTE:**

1" DIA. HOLES FOR THE MASONRY ANCHOR AND 1" DIA. HOLES FOR 7/8" DIA. BOLTS SHALL BE DRILLED WITH A HIGH SPEED DRILL. THE DRILL BIT SHALL BE CAPABLE OF DRILLING THROUGH EXISTING REINFORCING BARS AND CONCRETE.



**SECTION "A-A"**

**NOTE:**

COST OF THE 3/8" THICK STEEL CONNECTOR PLATES, ALL BOLTS WITH HEX NUTS AND WASHERS, MASONRY ANCHORS, DRILLING, LABOR, AND ALL MISCELLANEOUS MATERIALS NECESSARY FOR THE INSTALLATION OF TEN (10) STEEL BARRIER CONNECTOR PLATE ASSEMBLIES TO BE INCLUDED IN ITEM NO. 604-10.80, BRIDGE REPAIRS, L.S. CONTRACTOR'S BID FOR THIS ITEM SHALL BE TEN (10) PLATE ASSEMBLIES. THE CONTRACTOR SHALL RELOCATE THE STEEL CONNECTOR PLATE ASSEMBLIES AS NEEDED DURING DIFFERENT CONSTRUCTION PHASES.

THE STEEL BARRIER CONNECTOR PLATES ARE REQUIRED AT ALL MODULAR, STRIP SEAL, AND BACKER ROD JOINT LOCATIONS.

**DETAILS SHOWING PORTABLE STEEL BARRIER CONNECTOR PLATE**

N.T.S.

**UNOFFICIAL SET**

NOT FOR BIDDING

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF PLANNING AND DEVELOPMENT

TRAFFIC CONTROL PLAN

BR. NO. 23-1155-0.00

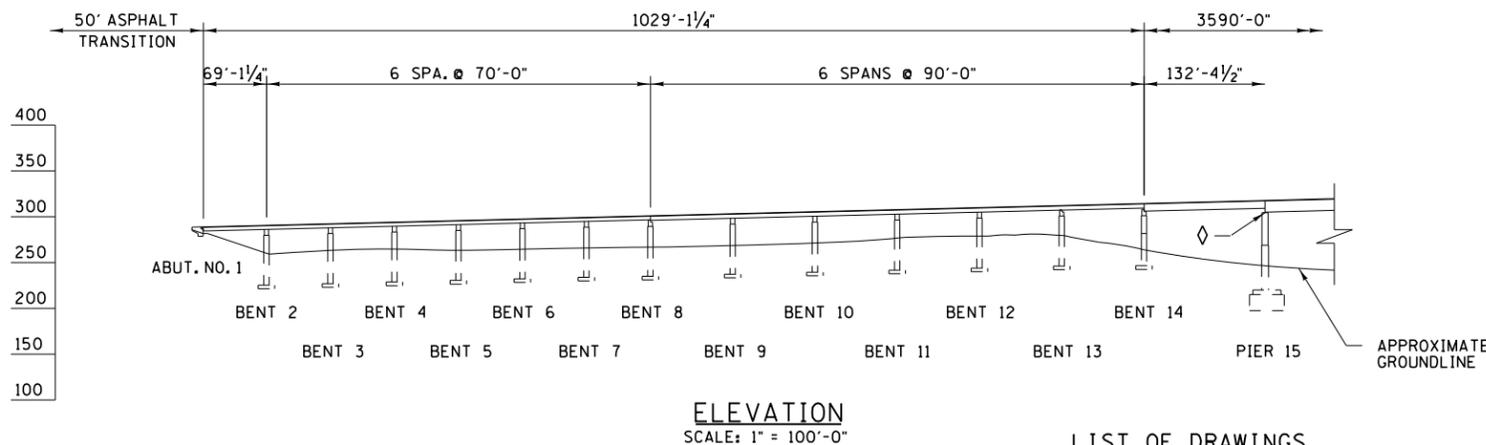
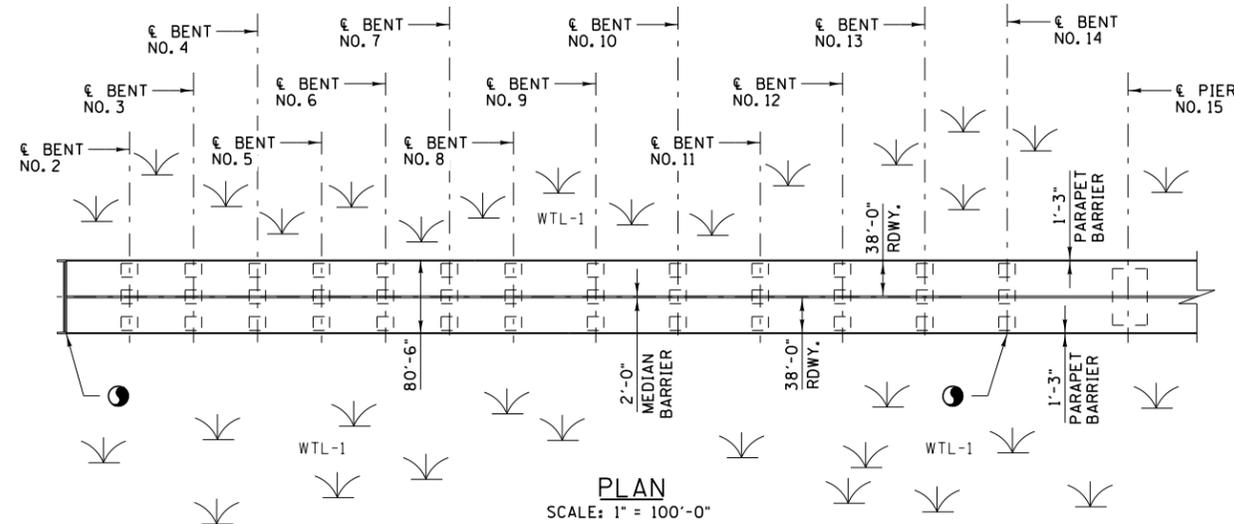
SCALE: NONE



### SCOPE OF WORK

- REMOVE DAMAGED FINGER JOINT ASSEMBLIES AND TRANSVERSE ROADWAY INLETS AT PIERS 19 AND 21. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-30 AND BR-116-31.
- PROVIDE NEW MODULAR JOINT ASSEMBLIES AT PIERS 19 AND 21. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-30 AND BR-116-31.
- HYDRODEMOLITION 1 1/2" FOR 150' IN SPANS 18 AND 21. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-25, BR-116-26, AND BR-116-29.
- PROVIDE NEW VARYING THICKNESS (1 1/2" TO 3") POLYMER MODIFIED CONCRETE (PMC) OVERLAY IN SPANS 18 AND 21. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-25, BR-116-26, AND BR-116-29.
- PROVIDE BRIDGE DECK GROOVING FOR AREAS REQUIRING NEW PMC OVERLAY WITHIN 1'-0" OF THE FACE OF THE MEDIAN OR PARAPET.
- REMOVE EXISTING DETERIORATED EXPANSION JOINTS AT WESTERN ABUTMENT AND BENT NO. 14. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-32 AND BR-116-33.
- PROVIDE NEW STRIP SEAL EXPANSION JOINTS AT WESTERN ABUTMENT AND BENT NO. 14. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-32 AND BR-116-33.
- REMOVE EXISTING DETERIORATED PREFORMED EXPANSION JOINT MATERIAL AT EASTERN ABUTMENT. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-34.
- PROVIDE NEW BACKER ROD AND SILICONE JOINT SEALANT AT EASTERN ABUTMENT. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-34.
- FLUSH ALL ROADWAY DRAINS ON BRIDGE. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-21.
- CLEAN ALL EXISTING JOINTS OF DEBRIS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-21.
- REMOVE EXISTING NAVIGATIONAL LIGHTING AT ALL THREE PIERS AT THE 2-SPAN TRUSS, AS WELL AS THE MID-SPAN LIGHTS AT BOTH TRUSS SPANS (5 LOCATIONS TOTAL). FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-40 THRU BR-116-45.
- PROVIDE NEW LED NAVIGATIONAL LIGHTING AT ALL THREE PIERS AT THE 2-SPAN TRUSS, AS WELL AS THE MID-SPAN LIGHTS AT BOTH TRUSS SPANS. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-40 THRU BR-116-45.
- REMOVE EXISTING AERIAL WARNING LIGHTS ON TOP OF TRUSS SPANS. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-40 THRU BR-116-45.
- PROVIDE NEW AERIAL WARNING LIGHTS AT TRUSS SPANS (PIER NOS. 19-21) @ 150' MAX SPACING. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-40 THRU BR-116-45.
- PROVIDE NEW CAGED ACCESS LADDERS WITH RESTING PLATFORMS AT DESIGNATED LOCATIONS. FOR LOCATIONS, SEE DWG. NO. BR-116-19. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-38 AND BR-116-39.
- PROVIDE 50' ASPHALT PAVEMENT TRANSITION AT BOTH BRIDGE ENDS.
- PROVIDE CONCRETE SPALL REPAIR AT LOCATIONS ON BR-116-18 THRU BR-116-20 AND AT FIELD DESIGNATED LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-37 AND BR-116-37A.
- EPOXY INJECT LOCATIONS SHOWN ON DWG. NOS. BR-116-18 THRU BR-116-20 AND ANY FIELD DESIGNATED LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-37.
- REMOVE CRACKED CLIP ANGLES AT FIELD DESIGNATED LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-35.
- PROVIDE NEW CLIP ANGLES AT FIELD DESIGNATED LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-35.
- REPAIR HOLES IN FLOORBEAM AT FIELD DESIGNATED LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-36 AND BR-116-36A.
- REPAIR DETERIORATED STIFFENERS AT PIER 21 AND SPAN 25. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-36A.
- CLEAN AND PAINT STEEL AT ALL REPAIR LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-23 AND BR-116-24.
- REMOVE EXISTING SEALANT ON PIERS 19-21 AND PROVIDE NEW SEALANT ON THE TOP PORTION OF THE CAP AT PIERS 19-21.
- REPAIR ANCHOR BOLTS AND ROCKER PIN COVERS AT BEARING LOCATIONS AT PIERS 19 AND 21. REPAIR ROCKER GUIDE GEAR AT BENT 25, GIRDER 1. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-39A.
- REPLACE MISSING NUT AT FLOORBEAM 15 AT STRINGER 9. ALL COSTS TO BE INCLUDED IN ITEM NO. 602-10.32.
- PROVIDE DRAIN EXTENSION ASSEMBLY AT SPAN 17 FLOORBEAM 17 AND SPAN 22 FLOORBEAM 26 AT BOTH CANTILEVERS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-37A.
- PROVIDE TRAFFIC CONTROL FOR BOTH EASTBOUND AND WESTBOUND TRAFFIC USING LANE SHIFTS TO FACILITATE JOINT REPAIRS. ALWAYS KEEP 1 TRAFFIC LANE OPEN IN EACH DIRECTION. FOR DETAILS SEE SHEET NOS. 6 THRU 16.

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION



### LIST OF DRAWINGS

DWG. NO.	REV.	DRAWING
BR-116-18		LAYOUT OF BRIDGE TO BE REPAIRED
BR-116-19		LAYOUT OF BRIDGE TO BE REPAIRED
BR-116-20		LAYOUT OF BRIDGE TO BE REPAIRED
BR-116-21		ESTIMATED QUANTITIES
BR-116-22		GENERAL NOTES
BR-116-23		GENERAL NOTES
BR-116-24		GENERAL NOTES
BR-116-25		BRIDGE REPAIR DETAILS
BR-116-26		BRIDGE REPAIR DETAILS
BR-116-27		BRIDGE REPAIR DETAILS
BR-116-28		BRIDGE REPAIR DETAILS
BR-116-29		BRIDGE REPAIR DETAILS
BR-116-30		BRIDGE REPAIR DETAILS
BR-116-31		BRIDGE REPAIR DETAILS
BR-116-32		BRIDGE REPAIR DETAILS
BR-116-33		BRIDGE REPAIR DETAILS
BR-116-34		BRIDGE REPAIR DETAILS
BR-116-35		BRIDGE REPAIR DETAILS
BR-116-36		BRIDGE REPAIR DETAILS
BR-116-36A		BRIDGE REPAIR DETAILS
BR-116-37		BRIDGE REPAIR DETAILS
BR-116-37A		BRIDGE REPAIR DETAILS
BR-116-38		BRIDGE REPAIR DETAILS
BR-116-39		BRIDGE REPAIR DETAILS
BR-116-39A		BRIDGE REPAIR DETAILS
BR-116-40		LIGHTING REMOVAL PLAN
BR-116-41		LIGHTING INSTALLATION PLAN
BR-116-42		ELECTRICAL DETAILS I
BR-116-43		ELECTRICAL DETAILS II
BR-116-44		ELECTRICAL DETAILS III
BR-116-45		ELECTRICAL DETAILS IV

### LIST OF REFERENCE DRAWINGS

DWG. NO.	DRAWING
M-58-1 TO M-58-80	ORIGINAL BRIDGE PLANS
K-86-54 TO K-86-78	ORIGINAL BRIDGE PLANS
M-20-1A TO M-20-25	ORIGINAL BRIDGE PLANS
BR-41-51 TO BR-41-54	1999 BRIDGE REHABILITATION PLANS
BR-81-87 TO BR-81-107B	2008 BRIDGE REHABILITATION PLANS

ALL REFERENCE DRAWINGS TO BE PRINTED WITH THE PLANS

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS

**UNOFFICIAL SET**

NOT FOR BIDDING

STATE 155 OVER MISSISSIPPI RIVER  
BRIDGE NO. 23-1155-0.00

DYER COUNTY  
2015



DESIGNED BY L. I. COBOS DATE JULY 2013  
 DRAWN BY C. W. THOMAS DATE JULY 2013  
 SUPERVISED BY J. H. RUDELL DATE JULY 2013  
 CHECKED BY A. J. KHAIRI DATE JULY 2013

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON







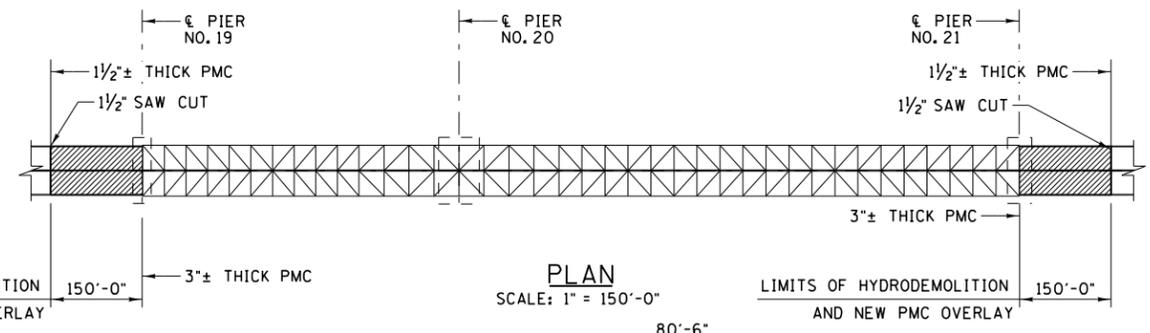






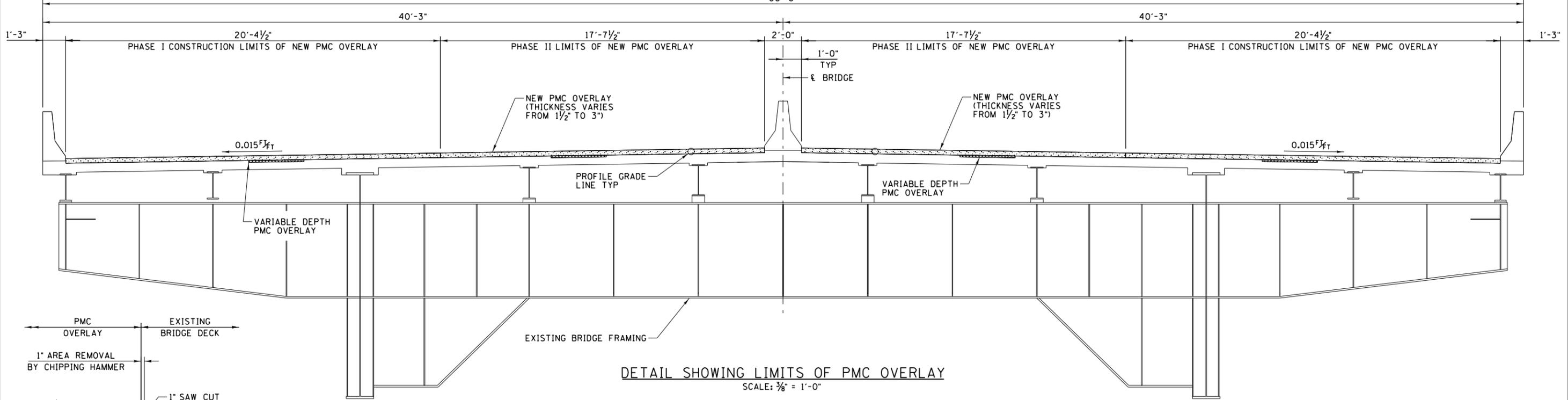
**NOTES:**  
 ALL COSTS ASSOCIATED WITH 1" SAW CUT ALONG THE FACE OF EXISTING PARAPETS, PORTABLE BARRIER RAIL, AND EXPANSION JOINT HEADERS SHALL BE INCLUDED UNDER ITEM NO. 604-10.67 CONCRETE REPAIRS, L.F.  
 ALL COSTS ASSOCIATED WITH 1" REMOVAL BY CHIPPING HAMMER ALONG THE FACE OF EXISTING PARAPETS, MEDIAN PORTABLE BARRIER RAIL, AND EXPANSION JOINT HEADERS SHALL BE INCLUDED UNDER ITEM NO. 604-10.20.

PORTABLE BARRIER RAILS ARE NOT SHOWN FOR CLARITY, FOR LOCATIONS, SEE SHEET NOS. BR-116-25 AND BR-116-26.



- DENOTES LIMITS OF NEW PMC OVERLAY TO BE PAID FOR UNDER ITEM NO. 619-01, BRIDGE DECK OVERLAY (PMC), S.Y.
- DENOTES AREAS OF PMC PLACED UP TO 1/2" BELOW EXISTING BRIDGE ELEVATION TO BE PAID FOR UNDER ITEM NO. 619-01.10 POLYMER MODIFIED CONCRETE (VARIABLE DEPTH), C.Y.
- TWO WATER VACUUMS SHALL BE PRESENT AT THE CONSTRUCTION SITE DURING LATEX POURING OPERATION
- ALL DECK DRAINS TO BE COVERED PRIOR TO HYDRODEMOLITION OPERATION

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION



**DETAIL SHOWING LIMITS OF PMC OVERLAY**  
 SCALE: 3/8" = 1'-0"

**LATEX MODIFIED CONCRETE CURING PROCEDURES**

COVER THE OVERLAY PROMPTLY WITH A SINGLE LAYER OF WET BURLAP. NEW BURLAP, EVEN WHEN PRESOAKED, CAN DRY OUT QUICKLY AND SHOULD BE AVOIDED OR PRESOAKED FOR SEVERAL DAYS. IT MAY REQUIRE THE BURLAP TO BE WET, LET DRY OUT, AND THIS PROCEDURE REPEATED SEVERAL TIMES TO ALLOW TOTAL ABSORPTION. USE WHITE VISQUEEN (PLASTIC) TO COVER THE WET BURLAP DURING THE OVERLAY IN HOT WEATHER.

PLACE THE WET BURLAP ON THE OVERLAY AS SOON AS POSSIBLE. CONSISTENTLY SPRAY A MIST OF WATER OVER THE BURLAP BEFORE IT IS COVERED WITH WHITE VISQUEEN (PLASTIC), HOWEVER, SPRAYING THE BURLAP WITH WATER BEFORE COVERING WITH WHITE VISQUEEN (PLASTIC) SHOULD NOT BE EXCESSIVE TO THE POINT THE WATER IS DAMAGING THE FRESH OVERLAY SURFACE.

THE WHITE VISQUEEN (PLASTIC) SHOULD BE PULLED, PLACED AND KEPT WITHIN TEN TO THIRTY FEET OF THE FRONT COVER OF BURLAP. THESE DISTANCES SHOULD BE ADJUSTED BASED ON THE WEATHER CONDITIONS AT THE TIME OF PLACEMENT. SECURE THE PLASTIC SO IT WILL NOT BLOW OFF THE BURLAP DURING THE WET CURE. THE LESS NUMBER OF SEAMS IN THE PLASTIC IS BEST SUITED AND EASIER TO SECURE.

SECURE THE PLASTIC BY USING THE RAILS, ROLLING OVER THE EDGES OF WET BURLAP ONTO THE PLASTIC, LAYING FOLDED WET BURLAP TRANSVERSELY ACROSS THE DECK OR BY KEEPING WATER ON THE SURFACE OF THE PLASTIC. SEAL THE PLASTIC TO AVOID THE WIND FROM PUFFING UP THE PLASTIC DURING THE WET CURE. EXERCISE CAUTION WHEN WETTING DOWN THE SURFACE OF THE PLASTIC SO AS NOT TO ALLOW THE WATER TO RUN INTO THE OVERLAY BEING PLACED.

SOAKER HOSES SHALL BE PLACED UNDER THE PLASTIC. THIS SHALL BE DONE WHEN THE OVERLAY HAS SET LONG ENOUGH TO SUPPORT THE WEIGHT OF THE SOAKER HOSES AND AFTER THE OVERLAY PLACEMENT IS COMPLETED. USING THE COOLEST WATER POSSIBLE WILL GREATLY ENHANCE ALL THE PROCEDURES IN HOT WEATHER.

A RANDOM SAMPLE OF THE LATEX SHOULD BE TAKEN OFF EACH CONCRETE MOBILE SUPPLIER TO BE TAKEN TO THE DOT DEPARTMENT OF MATERIALS AND TESTING FOR EVALUATION. THE RANDOM SAMPLE WILL BE APPROXIMATELY ONE (1) QUART.

AN ENGINEER FROM THE OFFICE OF BRIDGE INSPECTION AND REPAIR SHALL BE PRESENT FOR THE INITIAL CALIBRATION OF THE CONCRETE MOBILE.

THE ENGINEER SHALL CHECK AND MEASURE THE VOLUME OF THE LATEX, CEMENT, AGGREGATE, AND WATER OF THE CONCRETE BEFORE AND AFTER AS AN APPROXIMATE CHECK OF THE CALIBRATION OF THE CONCRETE MOBILE MIXER.

THE CONTRACTOR SHALL PLACE PLASTIC COVER OVER THE DECK AREA AFTER THE DECK HAS RECEIVED HYDRODEMOLITION AND THE DECK AREA HAS BEEN CLEANED. THE PLASTIC SHALL REMAIN IN PLACE AND THE DECK SHALL NOT BE UNCOVERED UNTIL IMMEDIATELY PRIOR TO PLACING THE PMC. THE PLASTIC SHALL BE REMOVED AHEAD OF THE MOBILE MIXER AS IT ADVANCES ALONG THE LENGTH OF THE BRIDGE. SPECIAL CARE SHALL BE EXERCISED TO ENSURE THAT THE PLASTIC REMAINS IN PLACE IN ANY AREA WHERE CONSTRUCTION EQUIPMENT, INCLUDING CONCRETE TRUCKS, IS TRAVELING OR PARKED.

**SPECIAL NOTE CONCERNING USE OF HYDRODEMOLITION FOR SCARIFYING DECK 1/2" PARTIAL DEPTH CONCRETE REMOVAL AND NEW CONCRETE.**

(THIS IS A GENERAL DESCRIPTION OF WORK REQUIRED AND PAYMENT FOR THAT WORK. SEE SPECIAL PROVISION 604H FOR EXACT LIMITS OF WORK AND PAYMENT CONCERNING HYDRODEMOLITION AND NEW PMC OVERLAY.)

A DESIGNATED DECK AREA ON THE BRIDGE SHALL RECEIVE HYDRODEMOLITION AS DESCRIBED BELOW. THE AREA OF THE DECK SHALL RECEIVE HYDRODEMOLITION TO A 1/2" MINIMUM DEPTH AND HAVE PARTIAL DEPTH DETERIORATED CONCRETE REMOVED USING HYDRODEMOLITION. PARTIAL DEPTH AREAS WILL NOT BE MARKED ON THE DECK BUT WILL BE REMOVED AS THE HYDRODEMOLITION COMES IN CONTACT WITH PARTIAL DEPTH DETERIORATED CONCRETE WHILE SCARIFYING. THESE AREAS SHALL BE PAID FOR UNDER ITEM NO. 604-10.20, HYDRODEMOLITION, S.Y.

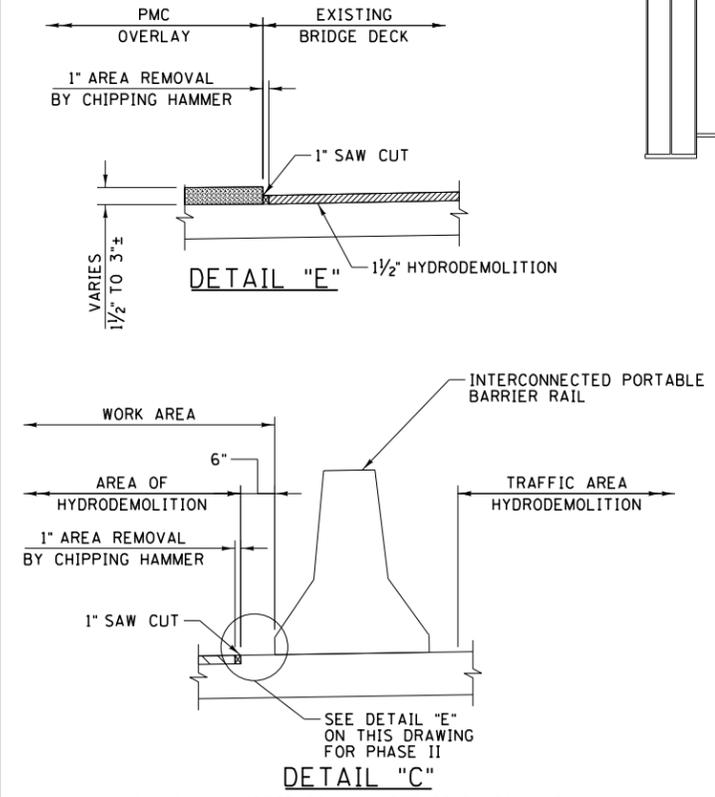
THE NEW POLYMER MODIFIED CONCRETE PLACED IN AREAS AS PARTIAL DEPTH REMOVAL UP TO 1/2" BELOW THE ORIGINAL BRIDGE DECK ELEVATION SHALL BE PAID FOR UNDER ITEM NO. 619-01.10, POLYMER MODIFIED CONCRETE (VARIABLE DEPTH), C.Y., AND WILL BE PLACED AT THE SAME TIME AS THE NEW PMC OVERLAY. THE NEW PMC OVERLAY WHICH INCLUDES THE PMC ABOVE 1/2" BELOW ORIGINAL BRIDGE DECK ELEVATION SHALL BE PAID FOR UNDER ITEM NO. 619-01, BRIDGE DECK OVERLAY (PMC), S.Y.

ROTCRUMBLING OF THE CONCRETE DECK WILL BE ALLOWED PRIOR TO HYDRODEMOLITION TO A DEPTH THAT IT DOES NOT COME INTO CONTACT WITH EXISTING REINFORCEMENT. ADJUST MILLING DEPTH AS REQUIRED.

A 5000 PSI PRESSURE WASH OF THE BRIDGE SURFACE AFTER HYDRODEMOLITION AND VACUUMING SHALL BE DONE PRIOR TO PLACEMENT OF THE NEW PMC OVERLAY TO ENSURE A DECK FREE OF ANY LOOSE MATERIAL. THE BRIDGE DECK SURFACE SHALL MEET WITH THE APPROVAL OF THE ENGINEER.

THE CONTRACTOR SHALL USE TYPE 3 CEMENT IN THE MIX FOR THE POLYMER MODIFIED CONCRETE OVERLAY (PMC OVERLAY).

**NOTES:**  
 FOR LOCATION OF HYDRODEMOLITION AND NEW PMC OVERLAY, SEE DETAIL THIS DWG.  
 PMC OVERLAY THICKNESS WILL VARY FROM 1/2" TO 3" IN ORDER TO LEVEL THE TOP OF THE BRIDGE DECK AT PIERS 19 & 21.



**DETAIL "E"**  
 VARIES 1/2" TO 3"  
 1" SAW CUT  
 1/2" HYDRODEMOLITION

**DETAIL "C"**  
 (SHOWING CONCRETE REMOVAL BEFORE POURING NEW PMC OVERLAY FOR PHASE I RIGHT LANE, LEFT LANE SIMILAR.)  
 INTERCONNECTED PORTABLE BARRIER RAIL  
 WORK AREA  
 AREA OF HYDRODEMOLITION  
 6"  
 TRAFFIC AREA HYDRODEMOLITION  
 1" AREA REMOVAL BY CHIPPING HAMMER  
 1" SAW CUT  
 SEE DETAIL "E" ON THIS DRAWING FOR PHASE II

**UNOFFICIAL SET**  
 NOT FOR BIDDING

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BRIDGE REPAIR DETAILS  
 INTERSTATE 155 OVER MISSISSIPPI RIVER  
 BRIDGE NO. 23-1155-0.00  
 DYER COUNTY  
 2015

10/16/2014 10:03:49 AM  
 WORKSPACE: T001 Bridge Repair over: Mississipi Riv Dr-wings\BRC\Final\BR-116-29.dgn  
 L10003001634 - T001 - Bridge Repair

DESIGNED BY L. I. COBOS DATE JULY 2013  
 DRAWN BY K. T. BRESHEARS DATE JULY 2013  
 SUPERVISED BY A. J. KHAIRI DATE JULY 2013  
 CHECKED BY S. F. HARPER DATE JULY 2013  
 TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON















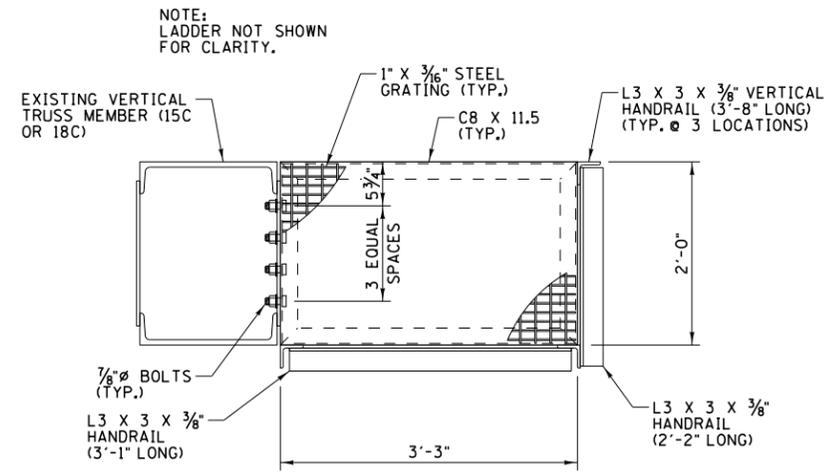
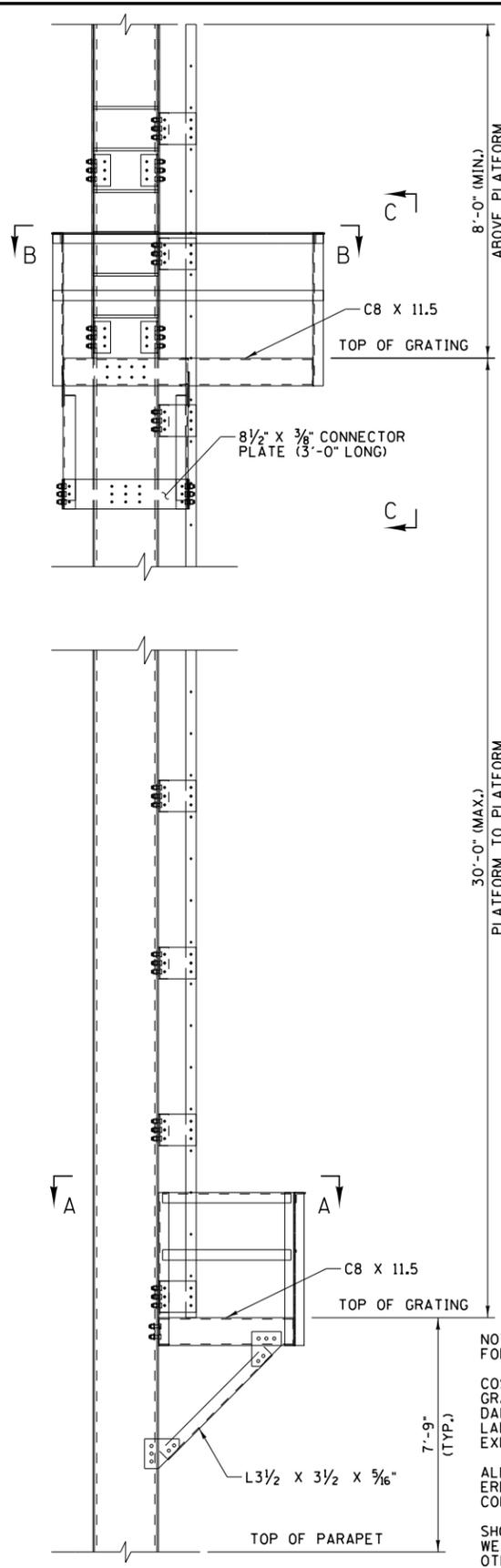




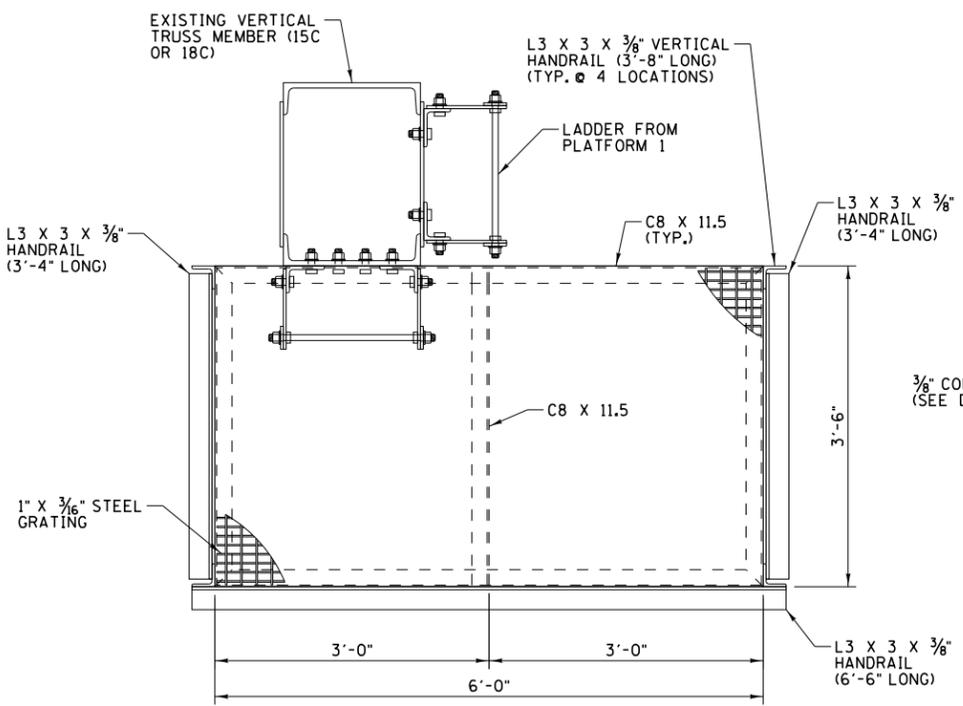




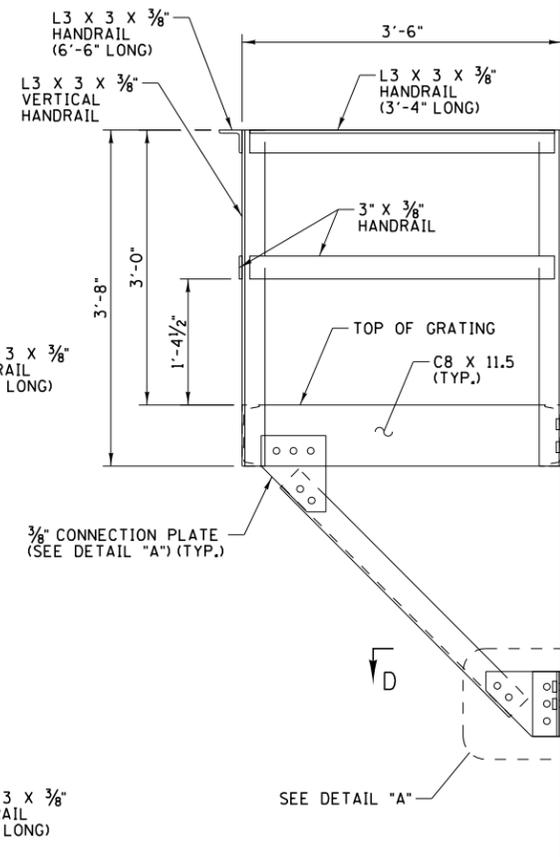
REVISIONS				
NO.	DATE	BY	BRIEF DESCRIPTION	



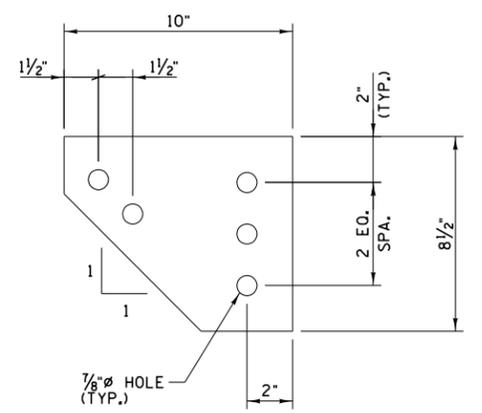
**SECTION A-A**  
SHOWING PLATFORM 1  
SCALE: 1" = 1'-0"



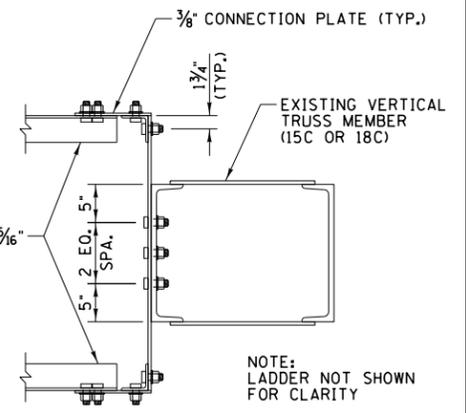
**SECTION B-B**  
SHOWING PLATFORM 2  
SCALE: 1" = 1'-0"



**SECTION C-C**  
SCALE: 1" = 1'-0"



**DETAIL "A"**  
SHOWING 3/8" CONNECTION PLATE  
SCALE: 3" = 1'-0"



**SECTION D-D**  
SCALE: 1" = 1'-0"

NOTES:  
FOR EXISTING TRUSS MEMBER SIZES, SEE REFERENCE DWG. NOS. M-58-1 TO M-58-80.

COST OF FURNISHING AND INSTALLING LADDERS, PLATFORMS, RAILS, CAGES, AND GRATING TO BE INCLUDED IN ITEM NO. 602-01, STRUCTURAL STEEL, I.B. ANY DAMAGE TO THE EXISTING STEEL MEMBERS DURING THE INSTALLATION OF THE LADDER SYSTEMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.

ALL ACCESS LADDERS, PLATFORMS, RAILS, AND GRATING TO BE FURNISHED AND ERECTED BY THE CONTRACTOR. ALL LADDERS, CAGES, AND PLATFORMS MUST CONFORM TO OSHA STANDARDS 1910.27.

SHOP WELD PLATFORMS IN ONE COMPLETE UNIT PRIOR TO INSTALLATION ON BRIDGE. WELD TOGETHER AT ALL CONTACT POINTS WITH CONTINUOUS WELD UNLESS NOTED OTHERWISE.

ATTACH PLATFORMS AND LADDERS TO NORTH SIDE OF BRIDGE. SEE SHEET BR-116-19 OR BR-116-38 FOR LOCATIONS.

ALL CONNECTIONS AND MEMBERS TO BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF TENNESSEE. THE ENGINEER SHALL PROVIDE THE TDOT ENGINEER WITH ALL DESIGN CALCULATIONS AND DETAILED SHOP DRAWINGS FOR REVIEW. ALL MEMBERS SHALL BE DESIGNED TO CARRY ALL LIVE, CONSTRUCTION, AND DEAD LOADS. EXACT LENGTHS AND DIMENSIONS SHALL BE DETERMINED ON SITE BY THE TDOT ENGINEER.

**PAINT NOTES:**  
ALL NEW STRUCTURAL STEEL SHALL BE CLEANED IN ACCORDANCE WITH SECTION 603.05, PREPARATION OF SURFACES, TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS. FOR ADDITIONAL NOTES, SEE GENERAL NOTES SHEET.

PAINTING OF NEW STRUCTURAL STEEL COMPONENTS WITH THE APPROVED CALCIUM SULFONATE PAINT SYSTEM. FOR ADDITIONAL NOTES, SEE DWG. NOS. BR-116-22 THRU BR-116-24.

COST OF CLEANING AND PAINTING NEW STRUCTURAL STEEL SHALL BE PAID FOR UNDER ITEM NO. 603-01, PAINT STEEL STRUCTURES, L.S.

ANY DAMAGE TO THE PAINT OF THE EXISTING STEEL MEMBERS SHALL BE CLEANED AND PAINTED USING THE APPROVED CALCIUM SULFONATE PAINT SYSTEM, SEE GENERAL NOTES SHEET FOR ADDITIONAL NOTES.

COST OF CLEANING AND PAINTING EXISTING STEEL, AS NEEDED IN THE AREAS ADJACENT TO THE NEW LADDER INSTALLATION AREAS, SHALL BE PAID FOR UNDER ITEM NO. 603-02.20, SPOT PAINTING OF EXISTING STEEL STRUCTURES, S.F.

REMOVAL OF EXISTING PAINT CAN BE DONE WITH MECHANICAL HAND TOOL CLEANING PROVIDED THAT ALL WASTE MATERIAL IS CAUGHT AND DISPOSED OF PROPERLY. COST TO BE INCLUDED UNDER ITEMS BID ON.

ALL NEW MEMBER SIZES AND LENGTHS SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. THE EXACT MEMBER SIZES, LENGTHS, AND CONNECTION DETAILS ARE TO BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TENNESSEE. ALL NEW MEMBERS SHALL BE ABLE TO CARRY ALL LIVE, CONSTRUCTION, AND DEAD LOADS SUBJECTED TO THE LADDERS AND PLATFORMS.

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS

INTERSTATE 155 OVER MISSISSIPPI RIVER  
BRIDGE NO. 23-1155-0.00

DYER COUNTY  
2015

**UNOFFICIAL SET**  
NOT FOR BIDDING

10/16/2014 10:03:54 AM  
 L:\Cobos\10/16/2014\1001\_Bridge\_Repair\over\_Mississippi\_River\Drawings\BRC\Final\BR-116-39.dgn  
 L:\Cobos\10/16/2014\1001\_Bridge\_Repair\over\_Mississippi\_River\Drawings\BRC\Final\BR-116-39.dgn


**DESIGNED BY** L. I. COBOS      **DATE** JULY 2013  
**DRAWN BY** C. W. THOMAS      **DATE** JULY 2013  
**SUPERVISED BY** J. H. RUDELL      **DATE** JULY 2013  
**CHECKED BY** A. J. KHAIRI      **DATE** JULY 2013

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON













