

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

**MOT-235-0.22L**

CITY OF HUBER HEIGHTS  
MONTGOMERY COUNTY  
**BRIDGE REPAIR**

PROJECT EARTH DISTURBED AREA: 0 ACRES  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0 ACRES  
NOTICE OF INTENT EARTH DISTURBED AREA: 0 ACRES

FEDERAL PROJECT NO.  
NON-FEDERAL

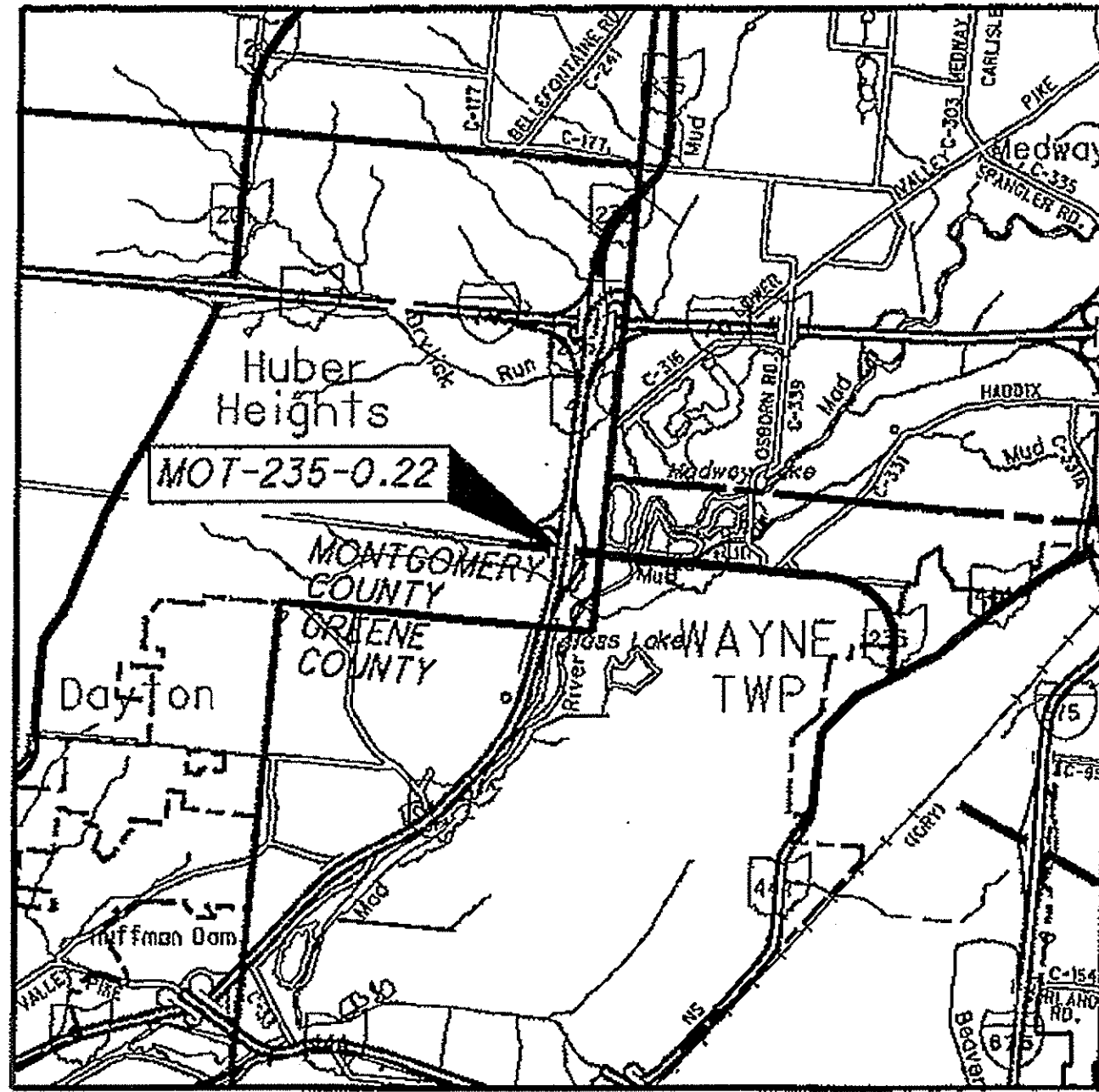
PID NO.  
84728

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT  
NONE

MOT-235-0.22L

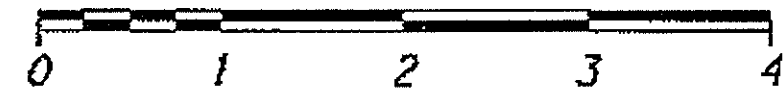
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LOCATION MAP

LATITUDE: N39°50'35" LONGITUDE: W84°03'30"

SCALE IN MILES



PORTION TO BE IMPROVED -----  
INTERSTATE & DIVIDED HIGHWAY -----  
UNDIVIDED STATE & FEDERAL ROUTES -----  
OTHER ROADS -----

INDEX OF SHEETS:

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2008 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

DESIGN DESIGNATIONS

NONE REQUIRED

DESIGN EXCEPTIONS

NONE REQUIRED

**UNDERGROUND UTILITIES**  
CONTACT BOTH SERVICES  
TWO WORKING DAYS  
**BEFORE YOU DIG**

CALL  
**1-800-362-2764**  
(TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE  
SERVICE CALL: 1-800-925-0988

PLAN PREPARED BY:



100 Westmore Dr., Suite 200 Columbus, Ohio 43215  
614-441-1515 FAX 614-441-1512

ENGINEERS SEAL:	STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	
 SIGNED: _____ DATE: 8-08-2008	GSD-E-96	7/19/02			800	7/18/08
	DM-4.3	7/19/02			832	4/25/06
	DM-4.4	7/19/02			849	1/19/07
	MT35.10	4/20/01				
	MT95.30	9/05/06				
	MT99.50	9/05/06				
	MT101.60	9/05/06				

APPROVED Rex Diakoy, P.E., P.S./PRO  
DATE 8-8-08 DISTRICT DEPUTY DIRECTOR

APPROVED James J. Basley, III  
DATE 8-14-08 DIRECTOR, DEPARTMENT OF TRANSPORTATION

MOT-235-0.22L  
085011 PID - 84728  
DIST 7 9/3/2008

I:\projects\2008\112265912\08429\STRUCTURES\MOT235\_0.22L\BRIDGE-EMERGENCY-SHEETS\CAL-0808-01.dwg  
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 JARLLAND

**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 102.02, 105.02 AND 513.01. BASE CONTRACT BID PRICES UPON RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PRE-BID 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.

**EXISTING PLANS AND PICTURES**

EXISTING PLANS CAN BE INSPECTED IN THE ODOT DISTRICT SEVEN OFFICE DURING NORMAL BUSINESS HOURS. THE PICTURES OF THE DAMAGE BEAM CAN BE DOWN LOADED AT: <ftp://ftp.dot.state.oh.us/pub/Districts/D07/MOT-235%20Accident%20Damage/>

**STEEL RESTRAINT OR PRELOAD LIMITS**

EXISTING ASTM A709 GRADE 36 - DO NOT SUBJECT ANY PART OF THE STRUCTURE TO A JACKING, PULLING, OR RESTRAINING UNIT STRESS EXCEEDING 18,000 PSI.

**ITEM 202 - PORTIONS OF STRUCTURES REMOVED, AS PER PLAN (MAIN MEMBERS)**

REMOVE PORTIONS OF MAIN MEMBERS AS DETERMINED BY FIELD INSPECTION ACCORDING TO SS849, DAMAGE ASSESSMENT, OR AS DIRECTED BY THE ENGINEER. SUPPORT THE EXISTING MAIN MEMBERS ACCORDING TO SS 849, STRAIGHTENING DAMAGED MEMBERS PLAN. FLAME OR SAW CUT THE EXISTING MEMBERS USING A MECHANICAL GUIDE AS PER CMS 513.12. PROVIDE SHIELDING AS NECESSARY TO PREVENT DAMAGE TO MAIN OR SECONDARY MATERIALS THAT REMAIN. GRIND THE REMAINING CUT SURFACES OF THE EXISTING MEMBER SMOOTH IN PREPARATION FOR SPLICING. PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL (TO ACCOMMODATE THE PROPOSED REPLACEMENT MATERIAL). DETERMINE FINAL QUANTITIES BY FIELD MEASUREMENTS.

ALL MATERIALS, TOOLS, LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK ARE INCLUDED FOR PAYMENT WITH ITEM 202 - PORTIONS OF STRUCTURES REMOVED, AS PER PLAN (MAIN MEMBERS): EACH.

**ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS)**

REMOVE PORTIONS OF SECONDARY MEMBERS AS DETERMINED BY FIELD INSPECTION ACCORDING TO SS849, DAMAGE ASSESSMENT, OR AS DIRECTED BY THE ENGINEER. SUPPORT THE EXISTING SECONDARY MEMBERS ACCORDING TO SS849, STRAIGHTENING DAMAGED MEMBERS PLAN. FLAME OR SAW CUT THE EXISTING MEMBERS TO WITHIN 1/8 INCH OF THE EXISTING MAIN MATERIAL USING A MECHANICAL GUIDE ACCORDING TO CMS 513.12 PROVIDE SHIELDING AS NECESSARY TO PREVENT DAMAGE TO MAIN OR SECONDARY MATERIAL THAT REMAIN. GRIND THE EXISTING MAIN OR SECONDARY MEMBER SMOOTH IN PREPARATION FOR COMPLETE PENETRATION OR FILLET WELDING. PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL (TO ACCOMMODATE THE PROPOSED REPLACEMENT MATERIALS). DETERMINE FINAL QUANTITIES BY FIELD MEASUREMENTS. THIS ITEM INCLUDES ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 202 - PORTIONS OF STRUCTURES REMOVED, AS PER PLAN (SECONDARY MEMBERS): EACH.

**ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN**

ALL REQUIREMENTS OF CMS 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM WORK FOR FIELD FABRICATED MEMBERS ACCORDING TO ITEM 513, EXCEPT AS MODIFIED HEREIN. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN SUPPLEMENT 1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE, 501.03, OR SUPPLY THE ENGINEER WITH "AS BUILT" DRAWINGS MEETING 513.03 AFTER COMPLETION OF FIELD FABRICATION. THE ENGINEER WILL REVIEW THE SUBMITTED DRAWINGS FOR CONCURRENCE WITH THE FINAL AS-BUILT CONDITION. THE ENGINEER MAY CONTACT THE OFFICE OF STRUCTURAL ENGINEERING FOR TECHNICAL ASSISTANCE. IF THE ENGINEER IS SATISFIED WITH THE "AS-BUILT" DRAWINGS AND THE DELIVERED MATERIALS, SUPPLY A COPY OF THE DRAWINGS, STAMPED, SEALED AND DATED ACCORDING TO SS1002, TO THE STRUCTURAL, WELDING, AND METALS SECTION OF THE OFFICE OF MATERIALS MANAGEMENT FOR RECORD PURPOSES. THE MEMBERS INCLUDED IN THIS ITEM ARE PROVIDED IN TABLE 2. THIS ITEM INCLUDES ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN: POUND.

**ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 3, AS PER PLAN**

THIS ITEM INCLUDES THE SECTION OF BEAM TO BE REPLACED AND FIELD DRILL THE HOLES ON THE EXISTING BEAM. THE REPLACEMENT SECTION SHALL MATCH THE SECTION PROPERTIES OF THE EXISTING BEAMS AS CLOSE AS POSSIBLE. THE CONTRACTOR HAS THE OPTION TO FABRICATE THE PROPOSED BEAM AS A PLATE GIRDER INSTEAD OF A ROLLED BEAM. THE CONTRACTOR SHALL SUBMIT THE DIMENSIONS OF THE PROPOSED PLATE GIRDER TO THE ENGINEER FOR APPROVAL AT LEAST 5 DAYS PRIOR TO FABRICATION. THE SURFACE OF THE NEW BEAM SHALL BE SHOP PRIMED COATED ACCORDING TO ITEM 514. THE CONTRACTOR SHALL PROVIDE COMPLETE REPAIR PROCEDURES AND JACKING DETAILS WITH PLAN SHEETS, SIGNED, SEALED AND STAMPED BY A PROFESSIONAL ENGINEER TO THE ODOT DISTRICT SEVEN BRIDGE ENGINEER FOR APPROVAL TWO WEEKS PRIOR TO BEGINNING ANY WORK OR ORDERING ANY MATERIALS FOR THIS BRIDGE.

ANY DECK REMOVAL AND REPLACEMENT REQUIRED TO REMOVE AND REPLACE THE SECTION OF BEAM SHALL CONFORM TO APPROPRIATE SECTIONS OF CMS 202 AND 511. ALL REMOVAL AND REPLACEMENT OF REINFORCING STEEL AND CONCRETE DECK, INCLUDING HMWM SEALER, ARE INCLUDED IN THIS ITEM. JACKHAMMERS SHALL BE LIMITED TO 35 LB. MAXIMUM.

THIS ITEM WILL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 3, AS PER PLAN: POUND.

**ITEM 849 - REPAIRING OF DAMAGED MEMBERS BY GRINDING**

NO SPURIOUS OR REMNANT PIECE OF MATERIAL IS TO BE LEFT ATTACHED TO ANY MAIN OR SECONDARY MEMBER. SUCH A PIECE IS TO BE GROUND FLUSH AND PAINTED.

THIS ITEM INCLUDES ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 849, REPAIRING DAMAGED MEMBERS BY GRINDING, HOUR.

**ITEM 514 - SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, AS PER PLAN**

THIS WORK CONSISTS OF CLEANING, FIELD BLASTING AND APPLYING THE PRIME COAT TO THE EXISTING BEAM. CLEAN SURFACES OF THE BEAM ONLY AT THE LOCATION OF THE PROPOSED NEW SPLICE PLATE OR AS DIRECTED BY THE ENGINEER. WITH LOW PRESSURE WATER CLEANING TO REMOVE ALL DIRT, DEBRIS, ANIMAL EXCREMENT, SALT CONTAMINANTS AND OTHER ACCUMULATED FOREIGN MATERIAL IN ACCORDANCE WITH SSPC-SP12 (LP WC), LOW PRESSURE WATER CLEANING. THE PRESSURE WASHER SHALL BE CAPABLE OF ACHIEVING AT LEAST 2,000 POUNDS PER SQUARE INCH AT THE NOZZLE. WHEN USING THE POWER WASHING EQUIPMENT, THE NOZZLE SHALL BE MAINTAINED NO MORE THAN 10 INCHES FROM THE SURFACE. SUPPLY AND USE POTABLE WATER. PROVIDE TO THE ENGINEER A LETTER OF WRITTEN ACCEPTANCE FOR ANY BIODEGRADABLE DETERGENTS OR CLEANERS USED IN CONJUNCTION WITH THIS METHOD. COLLECT AND CONTAIN WATER AND DEBRIS REMOVED DURING WASHING OPERATIONS IN CONFORMANCE WITH CMS 514.08 AND CMS 514.12.0 FOR ANY DEBRIS. CREATE SETTLEMENT COLLECTION BASINS AND STRAIN ALL WASH WATER ABOVE LAND FEATURES AS NECESSARY TO PRODUCE VISIBLY CLEAR WATER AND COMPLY WITH CMS 514.08 AND CMS 514.1.0 FOR ANY DEBRIS. FIELD BLAST THE EXISTING BEAM ONLY AT THE LOCATION OF THE PROPOSED NEW SPLICE PLATE OR AS DIRECTED BY THE ENGINEER. AFTER THE BEAM HAS BEEN CLEANED TO BARE METAL, APPLY THE PRIME COAT PAINT SYSTEM SPECIFIED IN CMS 708.02 OVER THE AREA AS DESIGNATED IN THE CONTRACT OR AS DIRECTED BY THE ENGINEER. THE DEPARTMENT WILL MEASURE THE WORK AND PAY FOR ACCEPTED QUANTITIES ON A LUMP SUM BASIS.


**ITEM 516 - REFURBISH AND RESET BEARING, AS PER PLAN**

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO PROPERLY ALIGN BRIDGE BEARING AT PIER #1/BEAM #5, AS WELL AS THEIR CLEANING AND PAINTING INCLUDED SHALL BE THE DISASSEMBLY OF THE BEARINGS HAND TOOL CLEANING (GRINDING IF NECESSARY), PAINTING ACCORDING TO CMS 514, REPLACEMENT OF ANY DAMAGED SHEET LEAD WITH PREFORMED BEARING PADS (711.21), INSTALLATION OF NEW ANCHOR BOLTS, INSTALLATION OF ANY NECESSARY STEEL SHIMS OF THE SAME SIZE AS THE BEARINGS TO PROVIDE A SNUG FIT, REALIGNMENT OF THE UPPER BEARING PLATE BY REMOVING EXISTING WELDS AND REWELDING SO THAT THE BEARINGS ARE VERTICALLY ALIGNED AT 60 DEGREE F, LUBRICATING SLIDING SURFACES, AND REASSEMBLY OF THE BEARINGS. ASSURE ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO GIRDERS AND/OR BEARING DEVICES ARE "FLOATING". AT NO ADDITIONAL COST TO THE STATE, THE CONTRACTOR MAY INSTALL NEW BEARINGS OF THE SAME TYPE AS THE EXISTING IN PLACE OF REFURBISHING THE BEARINGS. ALL WORK SHALL BE TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 516 - REFURBISH BEARING DEVICE, AS PER PLAN.

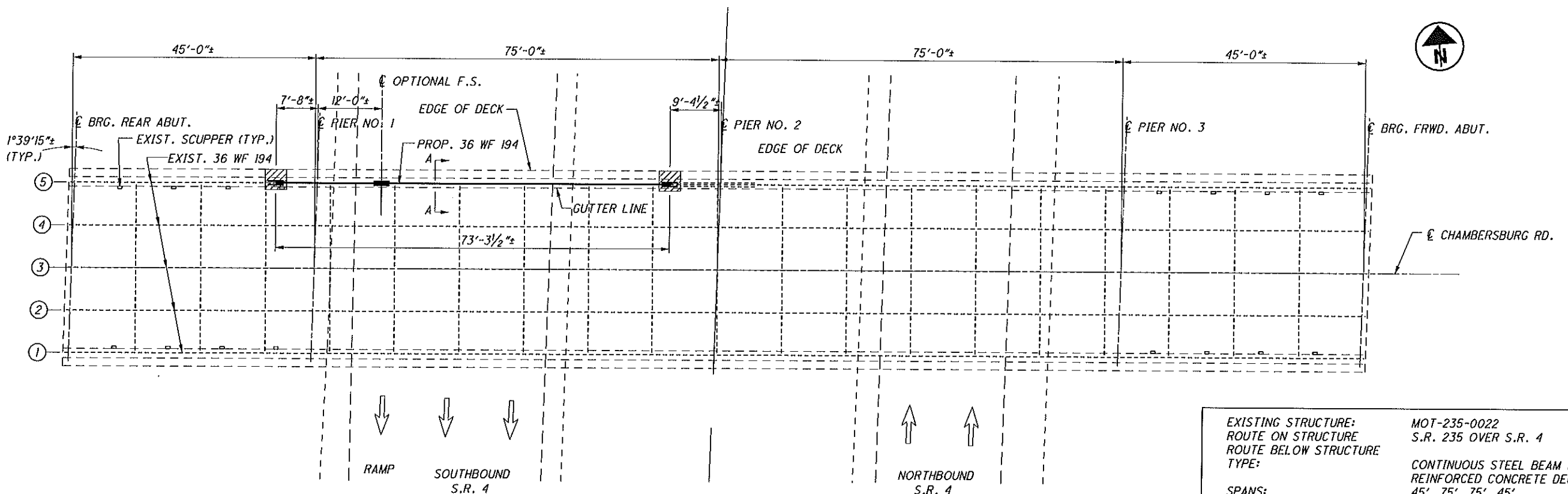
**ITEM 516 - JACKING AND TEMPORARY SUPPORT OR SUPERSTRUCTURE, AS PER PLAN**

THIS WORK CONSISTS OF RAISING OF REPOSITIONING EXISTING STRUCTURES TO PERFORM THE REPAIRS DEFINED IN PROJECT PLANS, SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH CMS 501.05. IF DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE 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 NECESSITATED BY THE JACKING OPERATION. 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 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.

\\AKR001\DATA\ACIV\11-280591\2-80\DOT\84\235\STRUCTURES\MOT235\_0822C-EMERGENCY\0822C-EM-0809.1.DGN  
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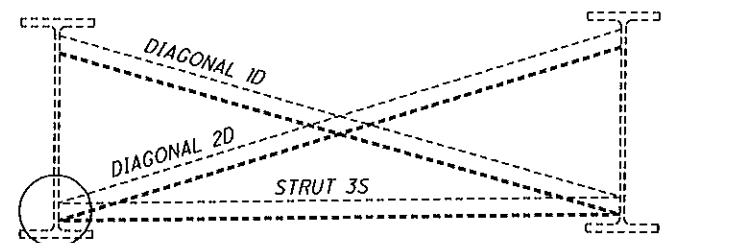
 GPD ASSOCIATES 1801 Westwood Drive, Suite 105, Columbus, OH 43215 OFFICE: 614.291.7171 FAX: 614.291.0252	DESIGN AGENCY CLASSIFIED PROFESSIONAL ENGINEER & ARCHITECT, INC.
	DATE: 8-8-2008 REVIEWED: TJJW DRAWN: RPR DESIGNED: GCN
STRUCTURE FILE NUMBER: 5709560 CHECKED: DJC	GENERAL NOTES BRIDGE NO. MOT-235-0022L S.R. 235 OVER S.R. 4
MOT-235-0.22 PID No. 84728	1 / 6 2 / 11





EXISTING STRUCTURE: MOT-235-0022  
 ROUTE ON STRUCTURE S.R. 235 OVER S.R. 4  
 ROUTE BELOW STRUCTURE  
 TYPE: CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK  
 SPANS: 45', 75', 75', 45'  
 ROADWAY WIDTH: 33'-6" F/F PARAPETS  
 SKEW: 1°39'15"  
 ALIGNMENT: TANGENT  
 YEAR BUILT: 1959  
 NUMBER OF BEAMS: 5  
 STEEL TYPE: ASTM A-36  
 PAINT: LIGHT GREEN - OZEU  
 PAINT DATE: 1990

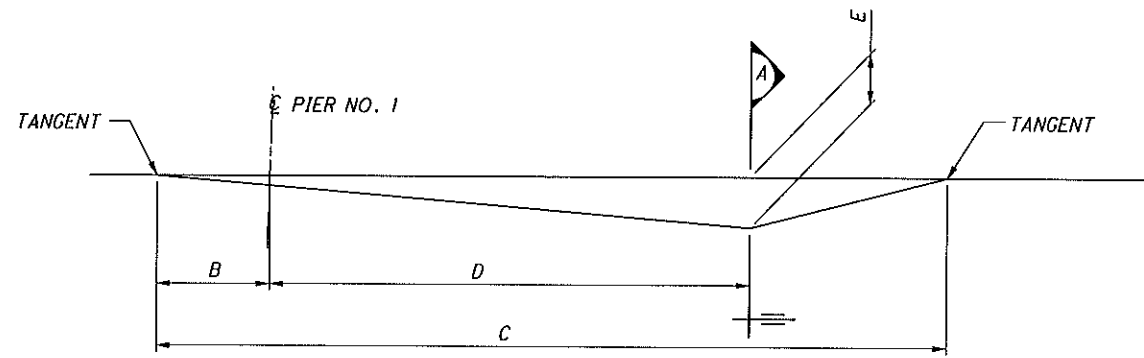
**DECK AND FRAMING PLAN**  
 [Hatched Box] INDICATES DECK CONCRETE TO BE REMOVED. SEE SHEET 4 FOR DETAILS.



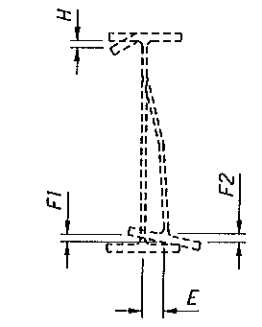
REMOVE ACCORDING TO ITEM 202 - PORTIONS OF SECONDARY MEMBERS REMOVED, AS PER PLAN. REPLACE BY MATCHING EXISTING DETAIL. SEE STD. DWG. GSD-1-96 FOR ADDITIONAL CLARIFICATION. INTERMEDIATE CROSSFRAMES ARE 3"x3"x5/16"

**SECONDARY MEMBER DIAGRAM**

MAIN AND SECONDARY MEMBER DAMAGE IS NOT SHOWN FOR CLARITY



**EXIST. BEAM DAMAGE DIAGRAM PLAN**



**SECTION A**

NEGATIVE "E" VALUES ARE BENT LEFT  
 NEGATIVE "F" VALUES ARE BENT DOWN

**TABLE #2 DAMAGED SECONDARY MEMBER TO BE REPLACED - CROSSFRAME**

BETWEEN BEAMS	PIER/ABUT.	N	ID	2D	3S
4-5	P-1	-	6	5	6
3-4	P-1	3	1	1	
2-3	P-1	3	1		1
1-2	P-1	3			1
4-5	REAR ABUT.	3			1
3-4	REAR ABUT.	3			1

N = NUMBER OF CROSSFRAME BRACES COUNTED FROM THE PIER OR ABUTMENT IDENTIFIED IN TABLE.

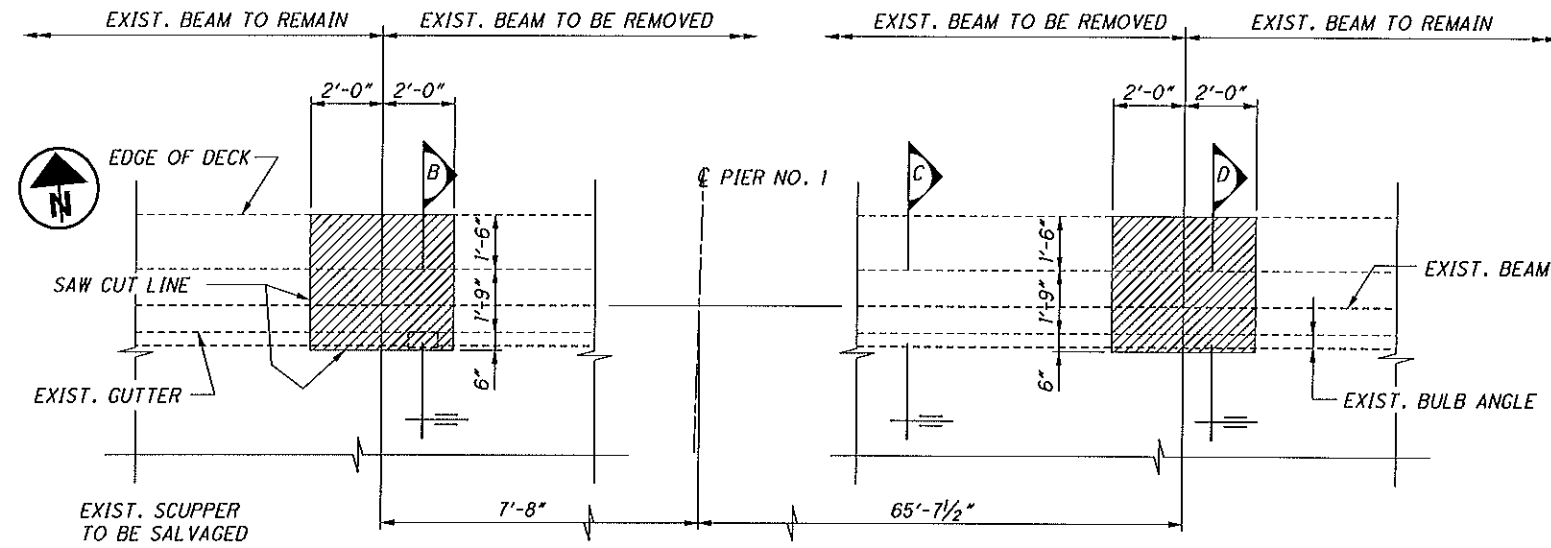
**TABLE #1 DAMAGED MAIN MEMBERS**

DAMAGED SECTIONS	BEAM NO.	B	C	D	E	F1	F2	G	H	J
A-A	5	7'-8"	73'-3 1/2"	28'-4 1/2"	-34 1/4"	-1"	+1"		-8"	74'-0"

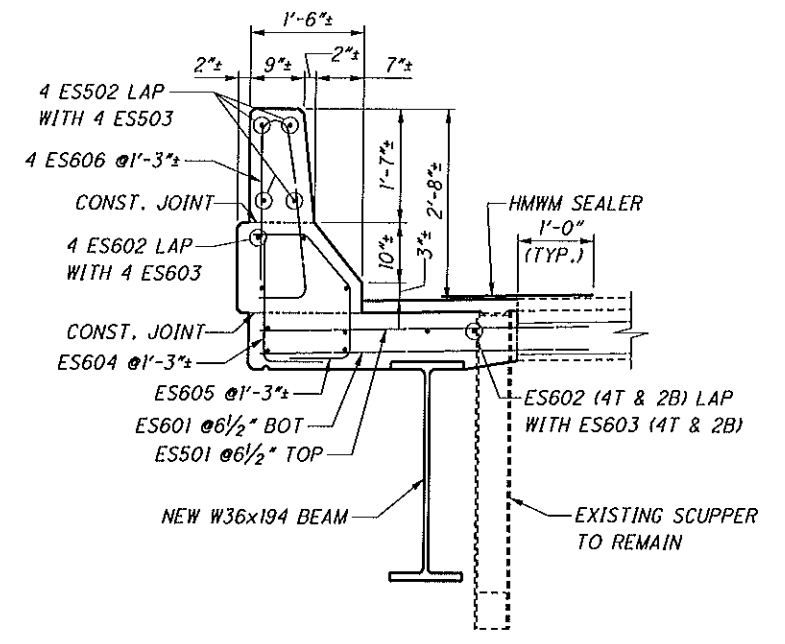
\* DENOTES SECTION OF BEAM TO BE REPLACED AS SHOWN ON DETAIL.

J = LENGTH OF EPOXY INJECTION

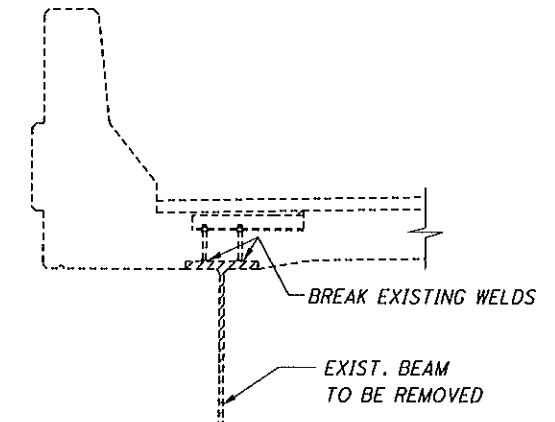
\\AKR\01\DATA\11\2895812\9\NOT\94\4\STRUCTURES\NOTES\MOT235\_LBR20C-ENERGEN\ASHEETS\235\_LBR20C-EM-50281.DGN  
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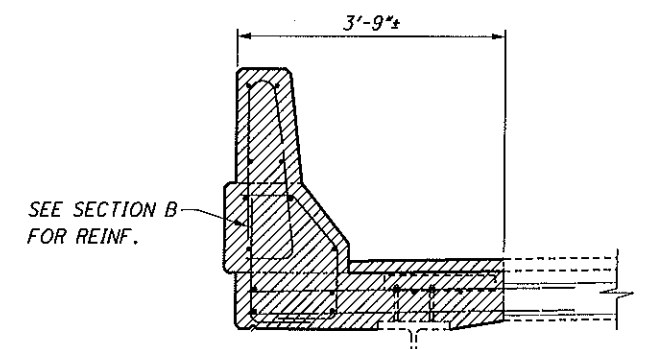
**DECK REMOVAL LAYOUT**  
 [Hatched Box] INDICATES PORTION OF STRUCTURE TO BE REMOVED



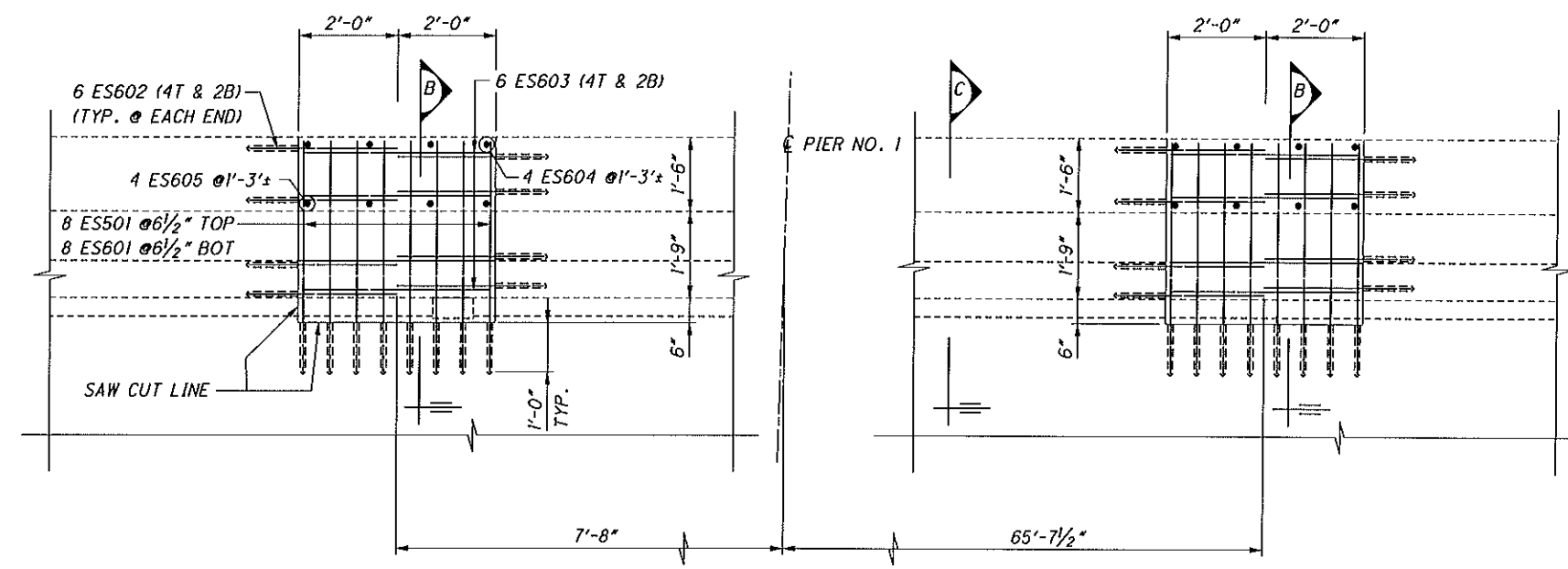
**SECTION B**



**SECTION C**



**SECTION D**

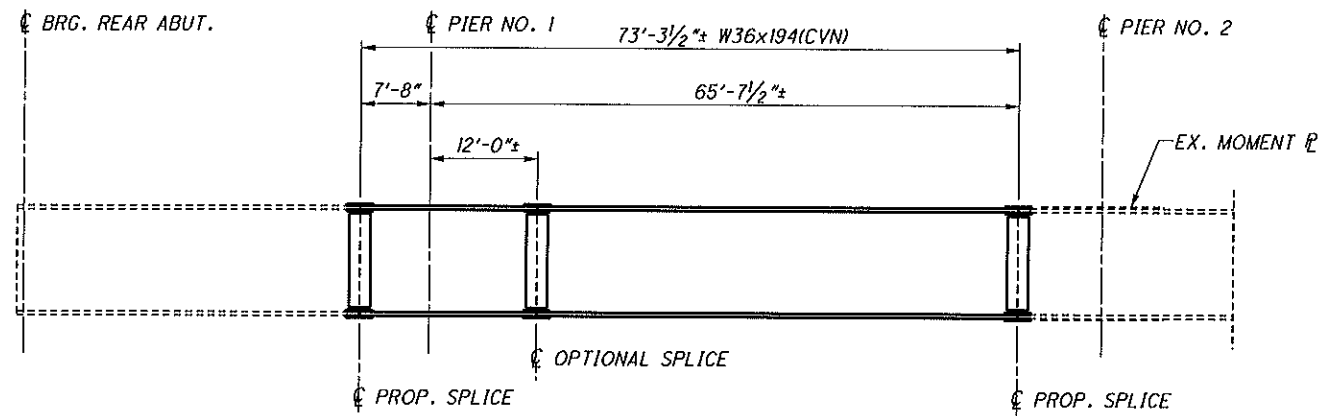


**DECK REBAR LAYOUT**  
 PARAPET REINFORCING NOT SHOWN FOR CLARITY.  
 THE CONCRETE TYPE FOR THE DECK AND PARAPET SHALL BE CLASS FS PER CMS 499.05.

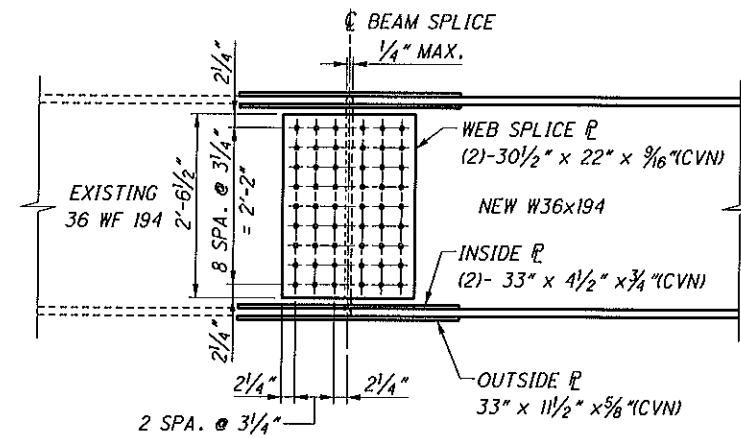
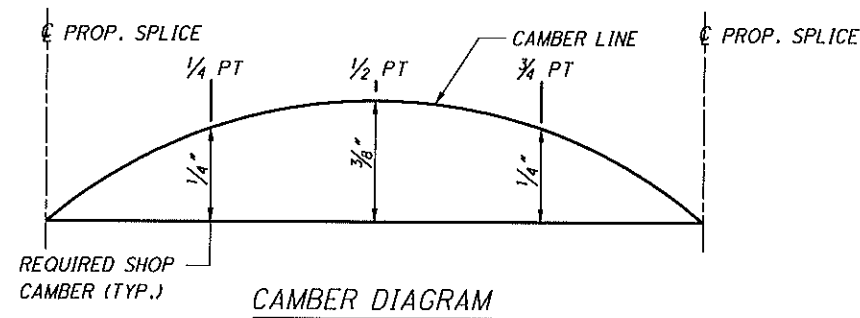
**LEGEND**  
 T = TOP  
 B = BOTTOM

DESIGN AGENCY GLADSTONE ENGINEERING & DESIGN INC. GPD ASSOCIATES 101 104300231, 101 104300232	
DATE 8-8-2008	STRUCTURE FILE NUMBER 5709560
REVIEWED T.L.W.	REVISION STRUCTURE FILE NUMBER 5709560
DRAWN R.P.R.	CHECKED D.J.C.
DESIGNED G.N.	
BRIDGE NO. MOT-235-0022L S.R. 235 OVER S.R. 4	
MOT-235-0.22 PID No. 84728	
4 / 6	
5 / 11	

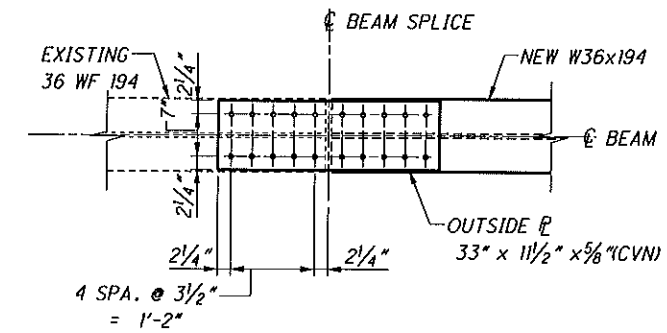
\\AKR001\DATA\AC1\1\20056112\6\_V01\B4429\STRUCTURES\NOT235\_0022C-EMERGENCY\ASHEET\235\_0022C-EM-50002.DGN  
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BEAM 5 ELEVATION



BEAM SPLICE DETAIL



TOP/BOTTOM FLANGE SPLICE DETAIL

NOTES:

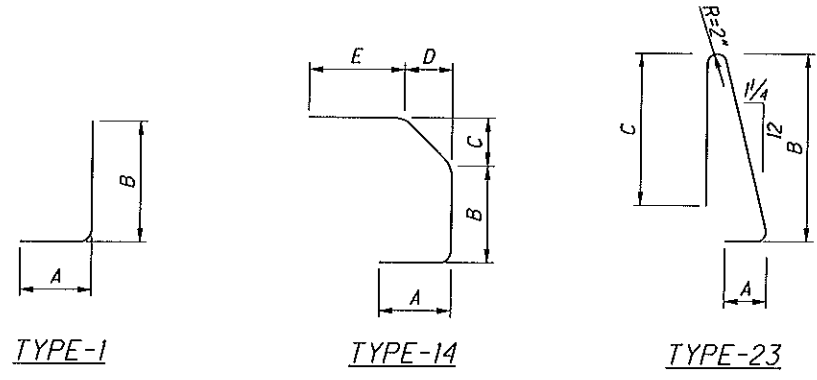
1. ALL SHAPES AND PLATES TO BE DESIGNATED CVN AND ARE TO MEET SPECIFIED MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN CMS 711.01
2. ALL BOLTS ARE TO BE 1 1/8" DIA. HIGH STRENGTH, ASTM A-325. ALL BOLTS SHALL BE NEW - DO NOT RE-USE ANY BOLTS.
3. SEE STD. DWG. GSD-1-96 FOR ADDITIONAL CROSSFRAME DETAILS. CROSS FRAME ANGLES ARE 3"x3"x5/16".
4. CONSTRUCTION OF FIELD SPLICE: THE CONTRACTOR SHALL FIELD MEASURE BEAM FIT-UP AT THE SPLICE LOCATIONS. CONTRACTOR SHALL MAKE PROVISIONS TO TRIM THE ENDS OF THE EXISTING BEAM SECTION SO THAT THE GAP BETWEEN THE EXISTING AND PROPOSED BEAMS DOES NOT EXCEED 1/8". ALL HOLES SHALL BE FIELD MEASURED, VERIFIED BY THE PROJECT ENGINEER AND FIELD DRILLED, BURNING OF THE STEEL WITH TORCHES WILL NOT BE PERMITTED. THE WORK WILL BE INCLUDED WITH THE UNIT PRICE BID FOR ITEM 513, STRUCTURAL STEEL, MISC.
5. ALL RELATED WORK NECESSARY TO CONSTRUCT THE FIELD SPLICE TO THE SATISFACTION OF THE ENGINEER WILL BE INCLUDED WITH THE UNIT PRICE BID FOR ITEM 513, STRUCTURAL STEEL MEMBERS LEVEL 3, AS PER PLAN.
6. STRUCTURAL STEEL - ASTM A709 GRADE 50 - YIELD STRENGTH 50,000 PSI.

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 8/6/2008 10:53:44 AM  
 HOLLAND

 GPD ASSOCIATES 1811 WEST 13TH AVENUE, SUITE 100 DENVER, CO 80202	DESIGN AGENCY CIVIL AND STRUCTURAL ENGINEERING	DATE 8-8-2008	STRUCTURE FILE NUMBER 5709660	BEAM DETAILS BRIDGE NO. MOT-235-0022L S.R. 235 OVER S.R. 4
REVIEWED T. JIM	DRAWN A.T.R.	CHECKED GON	DESIGNED GON	MOT-235-0.22 PID No. 84728
REVISION 1	REVISION 1	REVISION 1	REVISION 1	5 / 6
6 11				

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS					INC.
					A	B	C	D	E	
ES501	16	4'-7"	77	STR						
ES502	16	3'-0"	50	STR						
ES503	8	3'-10"	32	STR						
ES601	16	4'-7"	110	STR						
ES602	40	3'-0"	180	STR						
ES603	20	3'-10"	115	STR						
ES604	8	2'-3 1/2"	28	1	0'-11"	1'-7"				
ES605	8	3'-0"	36	14	0'-10 1/2"	0'-10"	0'-8 1/2"	0'-6"	0'-9"	
ES606	8	5'-4"	64	23	0'-8"	2'-5"	2'-2"			
TOTAL			692							

STANDARD BAR TYPES



NOTES:

1. BAR DIMENSIONS ARE OUT TO OUT UNLESS NOTED OTHERWISE.
2. ALL BARS ARE EPOXY COATED.
3. WHEN NO BAR LEG DIMENSIONS ARE SHOWN, IT INDICATES STANDARD BEND.

DESIGNED GCN	CHECKED DJC	DRAWN ATR	REVIEWED TJW	DATE	DESIGN AGENCY GPD ASSOCIATES 280 South Main Street, Suite 301, Akron, Ohio 44311 330.222.7210, Fax 330.222.7211
				8-8-2008	
REINFORCING STEEL LIST			STRUCTURE FILE NUMBER		
BRIDGE NO. MOT-235-0022L			5709660		
S.R. 235 OVER S.R. 4					
MOT-235-0.22	PID No. 84728				
6/6					
7/11					



**ITEM 614, MAINTAINING TRAFFIC**

PROPOSED STRUCTURE WORK SHALL BE PERFORMED ON:

**STRUCTURE MOT-235-0022L CHAMBERSBURG RD. OVER SOUTHBOUND SR-235**

REMOVAL OF EXISTING DAMAGED BEAM AND INSTALLATION OF THE PROPOSED BEAM SHALL BE PERFORMED DURING WEEKEND NIGHTTIME CLOSURE OF SOUTHBOUND SR-4 AND RAMP "A". FOR SOUTHBOUND SR-4 WEEKEND NIGHTTIME DETOUR SEE SHEET 11. WEEKEND NIGHTTIME CLOSURES OF SR-4 AND RAMP "A" SHALL BE FROM 9:00 PM FRIDAY TO 6:00 AM SATURDAY AND 9:00 PM SATURDAY TO 6:00 AM SUNDAY

WESTBOUND CHAMBERSBURG ROAD WILL BE CLOSED FROM 9:00 PM FRIDAY NIGHT TO 5:00 AM MONDAY. WESTBOUND CHAMBERSBURG TRAFFIC SHALL BE DETOURED AS AS SHOWN ON SHEET 10.

EASTBOUND CHAMBERSBURG ROAD WILL BE MAINTAINED ACROSS THE EXISTING STRUCTURE AS SHOWN ON SHEET 9.

ALL OTHER WORK ON THE STRUCTURE SHALL BE PERFORMED DURING SINGLE LANE CLOSURES ON SOUTHBOUND SR-4, TRAFFIC TO MAINTAINED AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-95.30.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE AND EFFECTIVE TRAFFIC CONTROL 24 HOURS A DAY FOR THE DURATION OF THIS PROJECT. THIS INCLUDES PROVIDING, PLACING, MAINTAINING, AND SUBSEQUENTLY REMOVING ALL NECESSARY TRAFFIC CONTROL MEASURES FOR ALL PROPOSED CONSTRUCTION OPERATIONS.

CARE SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT THE TRAVELING PUBLIC DURING ALL STAGES OF CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER.

BEFORE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF PERSONS WHO CAN BE CONTACTED 24 HOURS A DAY BY THE OHIO DEPARTMENT OF TRANSPORTATION, THE HIGHWAY PATROL, AND ALL OTHER INTERESTED POLICE AGENCIES.

THESE PERSONS SHALL BE RESPONSIBLE FOR REPAIRING AND/OR REPLACING ALL TRAFFIC CONTROL DEVICES NEEDED TO MAINTAIN SAFETY FOR THE DURATION OF THIS PROJECT. THESE PERSONS SHALL HAVE AVAILABLE ALL MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO PERFORM THE REQUIRED REPAIRS WITHIN A REASONABLE PERIOD OF TIME.

THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN SIGNS (IN PROPER POSITION, CLEAN AND LEGIBLE, AND IN GOOD WORKING CONDITION) AND REMOVE ALL LIGHTS, SIGNS, CONES, DRUMS, AND ANY OTHER TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC ACCORDING TO THESE PLAN NOTES AND DETAILS.

THE CONTRACTOR SHALL FURNISH AND INSTALL ADVANCE WARNING "ROAD WORK AHEAD" (W20-1) SIGNS AND "END ROAD WORK" (G20-2) SIGNS THROUGHOUT THIS PROJECT. THE SIGNS SHALL BE DUAL INSTALLATIONS AND THE ACTUAL LOCATION SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

VEHICLES AND OTHER EQUIPMENT SHALL NOT BE PERMITTED TO STOP OR TO BE PARKED ALONG THE ROADWAY EXCEPT WITHIN DESIGNATED WORK AREAS AND SHALL NOT ENTER OR LEAVE WORK AREAS IN A MANNER WHICH WILL BE HAZARDOUS TO, OR INTERFERE WITH THE NORMAL FLOW OF TRAFFIC. PERSONAL VEHICLES WILL NOT BE PERMITTED TO PARK WITHIN THE RIGHT-OF-WAY EXCEPT WITHIN SPECIFIC AREAS DESIGNATED BY THE ENGINEER. NO EQUIPMENT OR MATERIALS SHALL BE STORED WITHIN THE RIGHT-OF-WAY OF ANY INTERSECTING STREET WITHOUT PRIOR WRITTEN PERMISSION FROM THE LOCAL GOVERNING AGENCY.

A SHADOW VEHICLE SHALL BE USED WHENEVER WORKERS ARE IN THE WORK AREA. WHEN MAINTAINING TRAFFIC ACCORDING TO STANDARD DRAWING MT-95.30 OR MT-97.10, AS SHOWN IN THESE PLANS, OR AS DIRECTED BY THE ENGINEER. REMOVE THESE VEHICLES FROM THE PAVEMENT WHENEVER WORKERS ARE NOT IN THE WORK AREA.

TRAFFIC SHALL BE MAINTAINED IN A UNIFORM PATTERN THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT AND SHALL NOT BE SUBJECTED TO CONSTANT LANE SHIFTS.

A MINIMUM LANE WIDTH OF 12 FEET, SHALL BE PROVIDED FOR MAINTENANCE OF TRAFFIC PURPOSES AT ALL TIMES UNLESS OTHERWISE SHOWN IN THESE PLANS OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL CONTACT THE ODOT DISTRICT 7 ROADWAY SERVICES OFFICE (937-497-6834) A MINIMUM OF 14 CALENDAR DAYS PRIOR TO THE INTENDED ROAD/LANE CLOSURE TO ALLOW SUFFICIENT TIME FOR THE NECESSARY COORDINATION.

THE CONTRACTOR SHALL CONTACT THE CITY OF DAYTON (937-333-4088), THE CITY OF HUBER HEIGHTS (937-233-1423), THE CITY OF RIVERSIDE (937-237-5056) AND THE CITY OF FAIRBORN (937-754-3055) A MINIMUM OF 14 CALENDAR DAYS PRIOR TO THE INTENDED ROAD CLOSURE DATE OF CHAMBERSBURG ROAD AND SR-4 TO ALLOW SUFFICIENT TIME FOR THE CITIES TO COORDINATE WITH THERE EMERGENCY RESPONSE DEPARTMENTS.

LENGTH AND DURATION OF ROAD/LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELLING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NOTICE OF CLOSURE SIGNS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF A SCHEDULED ROAD CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE.

(WESTBOUND CHAMBERSBURG RD. @ STRUCTURE)

ROAD WILL BE  
CLOSED -----  
FOR 3 DAYS  
INFO: 1-888-200-9919

W20-H13-60

THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN STANDARD 48" X 30" "ROAD CLOSED" SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60, DURING PERIODS IN WHICH THE AFFECTED ROADWAY IS CLOSED TO TRAFFIC.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

NEW YEARS	FOURTH OF JULY	THANKSGIVING	DAYTON AIR SHOW
MEMORIAL DAY	LABOR DAY	CHRISTMAS	

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:

<u>DAY OF THE WEEK</u>	<u>TIME ALL LANES MUST BE OPEN TO TRAFFIC</u>
SUNDAY	12:00 NOON FRIDAY THROUGH 6:00AM MONDAY
MONDAY	12:00 NOON FRIDAY THROUGH 6:00AM TUESDAY
TUESDAY	12:00 NOON MONDAY THROUGH 6:00AM WEDNESDAY
WEDNESDAY	12:00 NOON TUESDAY THROUGH 6:00AM THURSDAY
THURSDAY	12:00 NOON WEDNESDAY THROUGH 6:00AM MONDAY
FRIDAY	12:00 NOON THURSDAY THROUGH 6:00AM MONDAY
SATURDAY	12:00 NOON FRIDAY THROUGH 6:00AM MONDAY

IN ADDITION TO ALL LANES BEING OPEN FOR HOLIDAYS, O.D.O.T. RESERVES THE RIGHT TO STOP WORK ON ANY STRUCTURE FOR UNFORESEEN HIGH VOLUME TRAFFIC BASED ON LOCAL EVENTS.

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 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.

**FLOODLIGHTING**

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

**ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS**

USE OF LAW ENFORCEMENT OFFICERS (LEO'S) BY CONTRACTORS OTHER THAN THE USES SPECIFIED IN THIS NOTE WILL NOT GENERALLY BE PERMITTED AT PROJECT COST UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER. LEO'S SHOULD NOT BE USED WHERE THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) INTENDS THAT FLAGGER BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

DURING THE ENTIRE WEEKEND NIGHTTIME CLOSURES ON SR-4, LEOS SHOULD BE POSITIONED AT THE POINT OF THE ROAD CLOSURE OR AS DIRECTED BY THE ENGINEER.

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED. IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE.

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

LEOS SHOULD NOT FORGO THEIR TRAFFIC RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORISTS ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEO'S DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A LIST OF THE APPROPRIATE LAW ENFORCEMENT AGENCY(S), INCLUDING ADDRESS AND TELEPHONE NUMBER.

THE LEO SHOULD REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING THE SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF THE SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHOULD NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDED THE LEO WITH A TWO WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF THE SHIFT.

LAW ENFORCEMENT OFFICERS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR). THE FOLLOWING ESTIMATED QUANTITY HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR 90 HOURS

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR.

CALCULATED  
JBS  
CHECKED

**MAINTENANCE OF TRAFFIC NOTES**

**MOT-235-0.22L**

8  
11



FOR WEEKEND NIGHTTIME DETOUR FOR SOUTHBOUND SR-4 AND RAMP "A" SEE SHEET 11.  
 FOR WEEKEND WESTBOUND CHAMBERSBURG RD. DETOUR SEE SHEET 10.

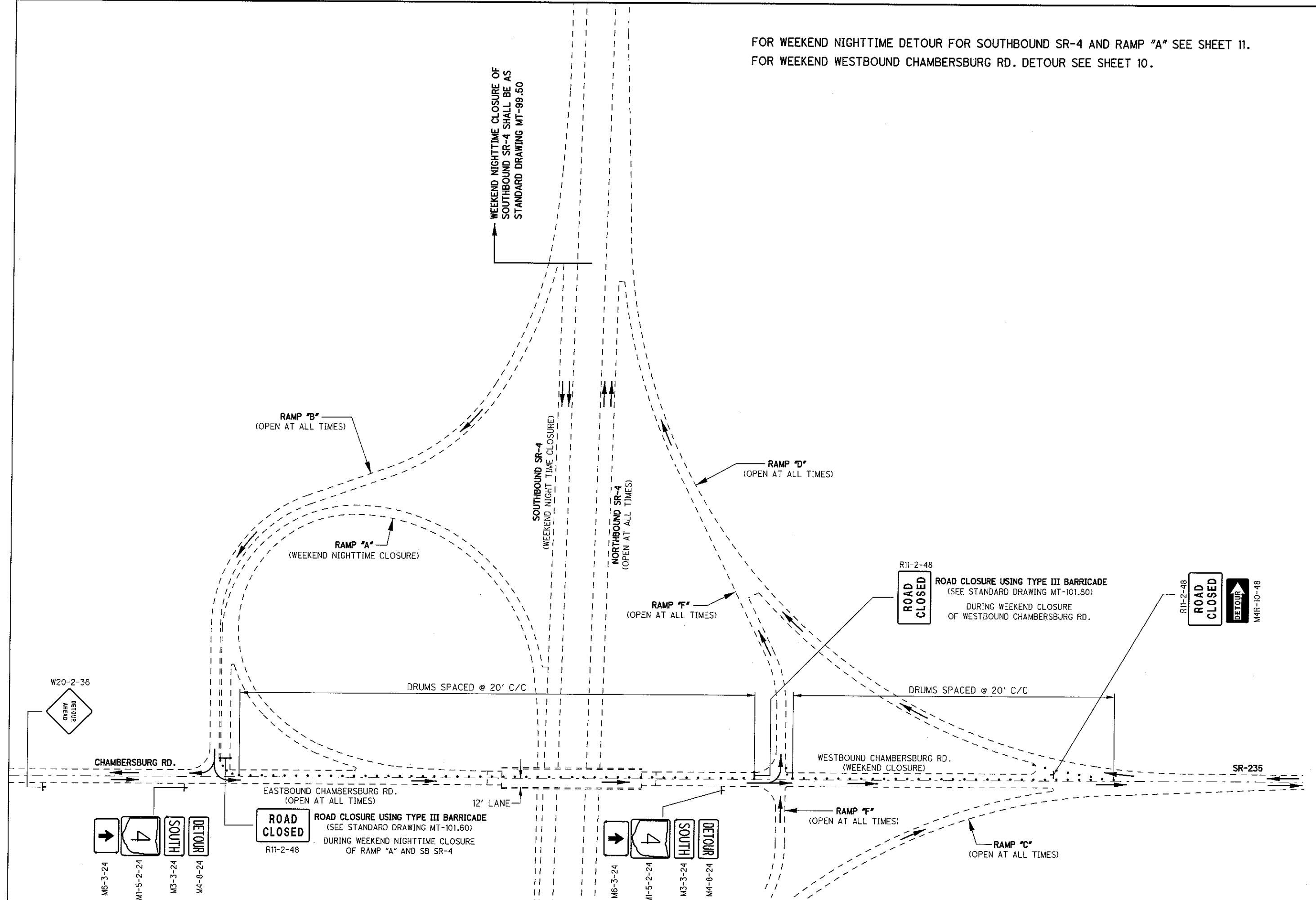


HORIZONTAL SCALE: 1" = 100'

CALCULATED  
 CHECKED

**MAINTENANCE OF TRAFFIC DETAIL  
 S.B. SR-4 AND W.B. CHAMBERSBURG RD.**

**MOT-235-0.22L**



WEEKEND NIGHTTIME CLOSURE OF SOUTHBOUND SR-4 SHALL BE AS STANDARD DRAWING MT-99.50

RAMP "B"  
 (OPEN AT ALL TIMES)

RAMP "A"  
 (WEEKEND NIGHTTIME CLOSURE)

SOUTHBOUND SR-4  
 (WEEKEND NIGHT TIME CLOSURE)

NORTHBOUND SR-4  
 (OPEN AT ALL TIMES)

RAMP "D"  
 (OPEN AT ALL TIMES)

RAMP "E"  
 (OPEN AT ALL TIMES)

R11-2-48



ROAD CLOSURE USING TYPE III BARRICADE (SEE STANDARD DRAWING MT-101.60) DURING WEEKEND CLOSURE OF WESTBOUND CHAMBERSBURG RD.

R11-2-48



MAR-10-48

W20-2-36



CHAMBERSBURG RD.



M6-3-24  
 M1-5-2-24  
 M3-3-24  
 M4-8-24

EASTBOUND CHAMBERSBURG RD.  
 (OPEN AT ALL TIMES)



ROAD CLOSURE USING TYPE III BARRICADE (SEE STANDARD DRAWING MT-101.60) DURING WEEKEND NIGHTTIME CLOSURE OF RAMP "A" AND SB SR-4

R11-2-48

12' LANE

DRUMS SPACED @ 20' C/C

DRUMS SPACED @ 20' C/C

WESTBOUND CHAMBERSBURG RD.  
 (WEEKEND CLOSURE)

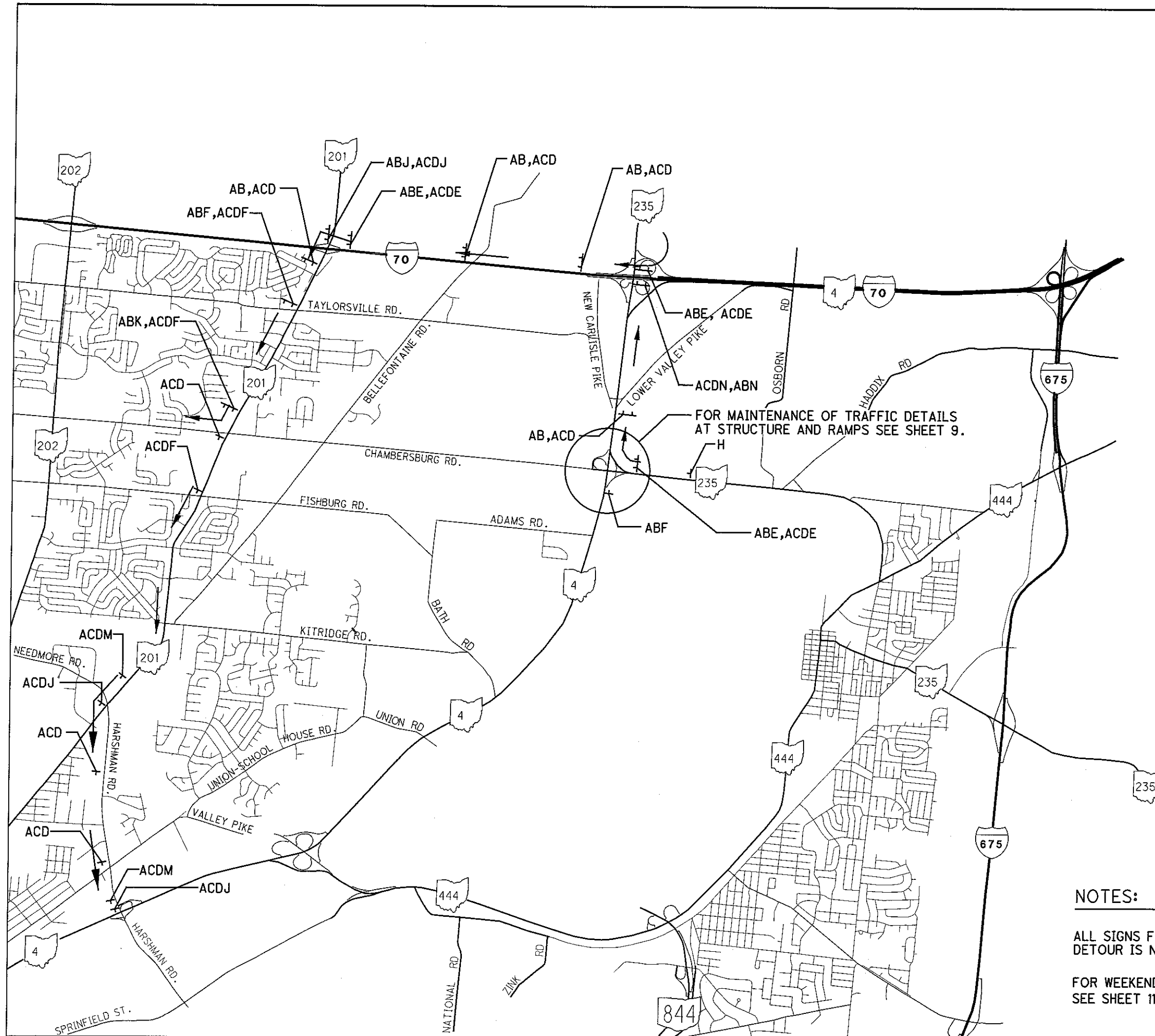
SR-235

RAMP "F"  
 (OPEN AT ALL TIMES)

RAMP "C"  
 (OPEN AT ALL TIMES)



M6-3-24  
 M1-5-2-24  
 M3-3-24  
 M4-8-24



**SIGN LEGEND**

A	B	C
DETOUR M4-8-24	CHAMBERSBURG RD. D3-H3-48	SOUTH M3-3-24
4 M1-5-2-24	E M6-2R-24	F M6-3-24
G W20-2-36	H W20-3-36	I BRIDGE OUT 1.0 MILES AHEAD LOCAL TRAFFIC ONLY R11-3B-60
J M6-1L-24	K M5-1R-24	M M5-1L-24
N M5-2R-24		

**NOTES:**

ALL SIGNS FOR DETOUR ROUTE SHALL BE COVERED WHEN DETOUR IS NOT IN USE.

FOR WEEKEND NIGHTTIME DETOUR FOR SOUTHBOUND SR-4 SEE SHEET 11.

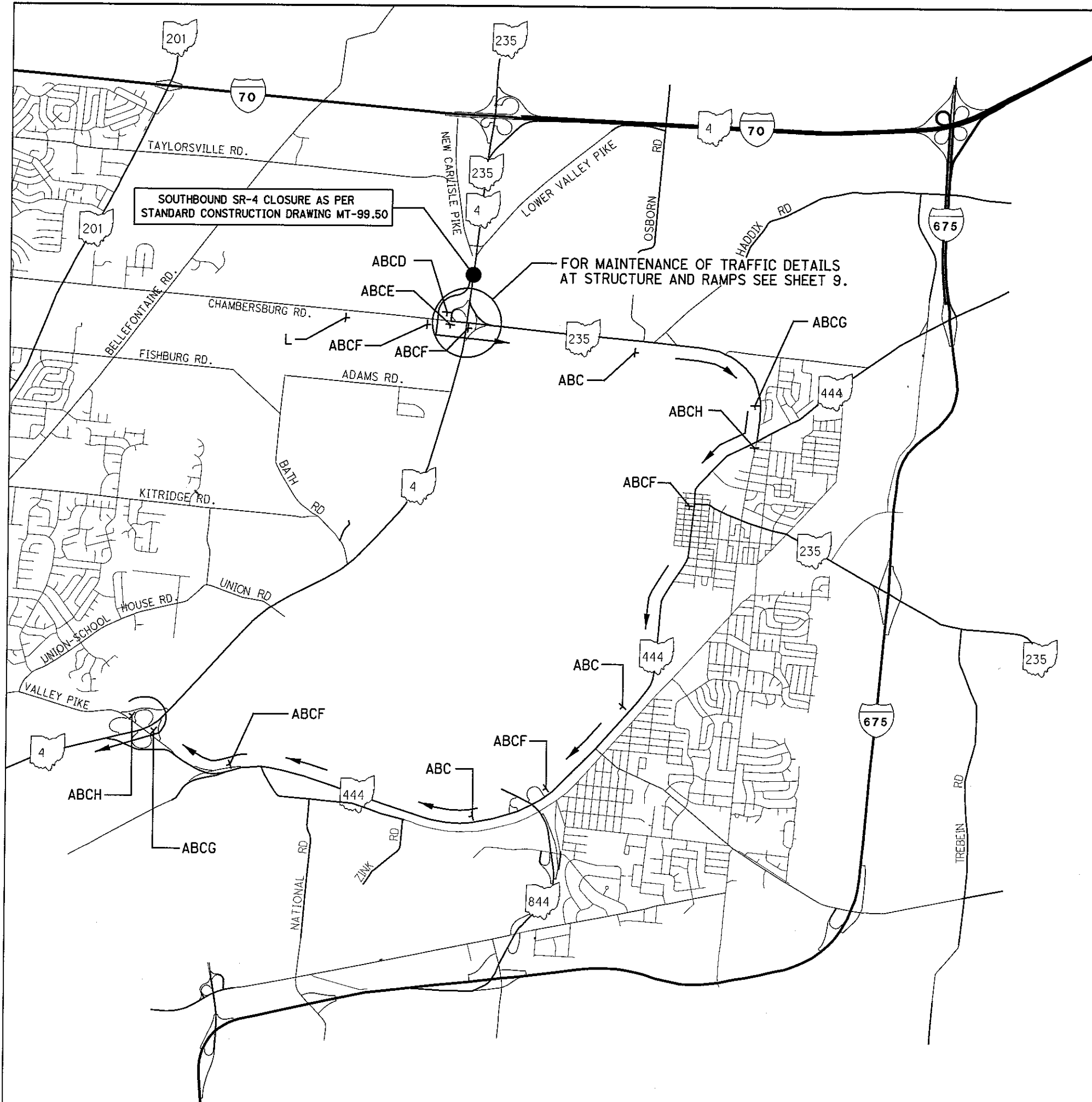


NOT DRAWN TO SCALE

CALCULATED  
CHECKED

WEEKEND DETOUR FOR  
WESTBOUND CHAMBERSBURG RD.

MOT-235-0.22L



**SIGN LEGEND**

<b>A</b> [DETOUR SIGN] M4-8-24	<b>B</b> [SOUTH SIGN] M3-3-24	<b>C</b> [SHIELD 4 SIGN] M1-5-2-24
<b>D</b> [LEFT TURN SIGN] M5-1L-24	<b>E</b> [LEFT TURN SIGN] M6-1L-24	<b>F</b> [UP TURN SIGN] M6-3-24
<b>G</b> [RIGHT TURN SIGN] M5-1R-24	<b>H</b> [RIGHT TURN SIGN] M6-1R-24	<b>J</b> [UP TURN SIGN] M6-2R-24
<b>K</b> [RIGHT TURN SIGN] M5-2R-24	<b>L</b> [DETOUR AHEAD SIGN] W20-2-36	

**NOTES:**

ALL SIGNS FOR DETOUR ROUTE SHALL BE COVERED WHEN DETOUR IS NOT IN USE.  
 FOR WEEKEND WESTBOUND CHAMBERSBURG RD. DETOUR SEE SHEET 10.