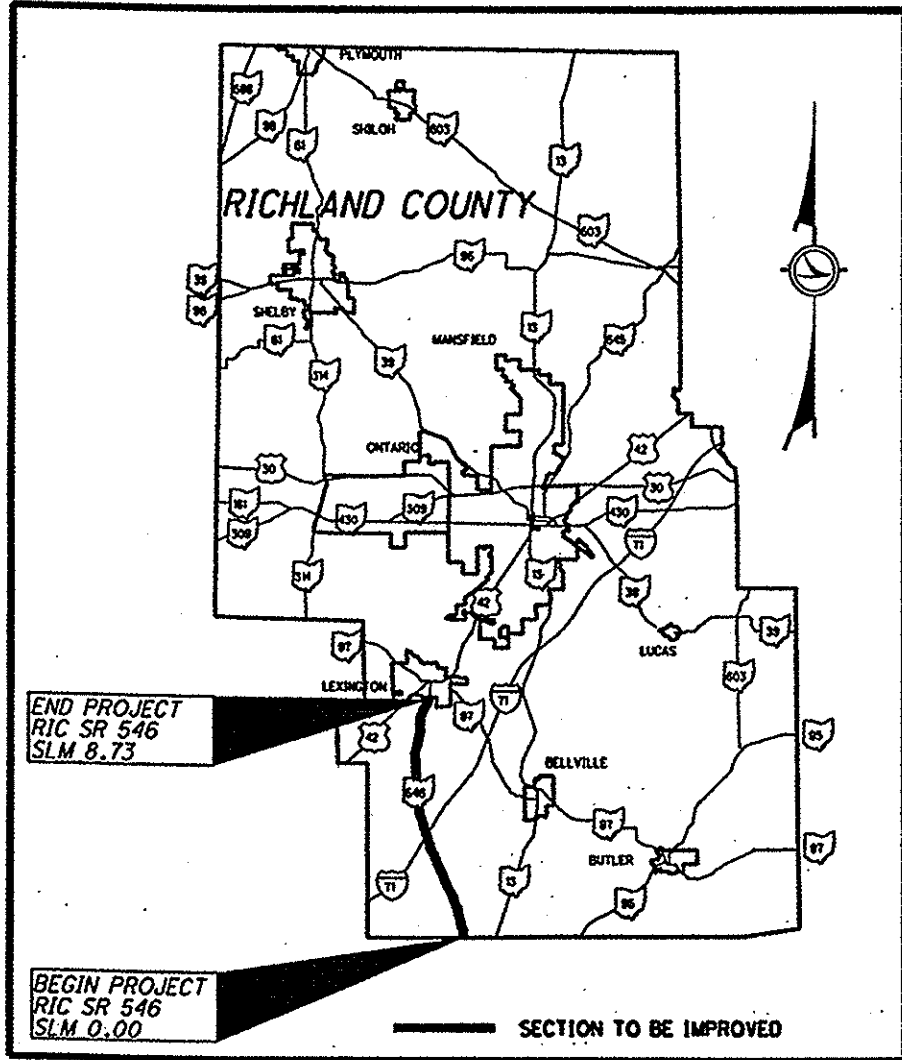


RIC - SR-546-0.00  
 100304 PID - 80180  
 Dist 3 5/20/2010

**LOCATION MAP**



**STATE OF OHIO  
 DEPARTMENT OF TRANSPORTATION**

**RIC-546-0.00  
 RICHLAND COUNTY  
 JEFFERSON TOWNSHIP  
 PERRY TOWNSHIP  
 TROY TOWNSHIP**

**INDEX OF SHEETS:**

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- 7 - TYPICAL SECTIONS
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- 18-20 - STRUCTURE GENERAL NOTES
- 21 - MAINTENANCE OF TRAFFIC NOTES
- 22 - BRIDGE TREATMENT
- 23-24 - STRUCTURE SUMMARY
- 25 - STRUCTURE RIC-546-0347
- 26-28 - STRUCTURE ASD-546-0489
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**PROJECT DESCRIPTION**

THIS PROJECT WILL INCLUDE PAVEMENT REPAIR, RESURFACING WITH ASPHALT CONCRETE, GUARDRAIL, PAVEMENT MARKINGS, AND MINOR BRIDGE REHABILITATION WORK.

PROJECT EARTH DISTURBED AREA = N/A  
 (MAINTENANCE PROJECT)

ESTIMATED CONTRACTOR EARTH DISTURBED AREA = N/A  
 (MAINTENANCE PROJECT)

NOTICE OF INTENT EARTH DISTURBED AREA = N/A  
 (MAINTENANCE PROJECT)

**2008 SPECIFICATIONS**

THE STANDARD 2008 SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND THE PROPOSAL SHALL GOVERN THESE IMPROVEMENTS.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THESE IMPROVEMENTS WILL NOT REQUIRE THE CLOSING OF THE HIGHWAY AND PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS INDICATED IN THE PLAN AND PROPOSAL.

40° 35' 26" N LATITUDE 82° 34' 47" W LONGITUDE

**UNDERGROUND UTILITIES**  
 CONTACT BOTH SERVICES  
 CALL 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: 1-800-929-0988

**ENGINEER'S SEAL**

ROADWAY	STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS
	PCB-91	07/19/02	GR-1.1	07/16/04	800 04/16/10
			GR-2.1	01/16/04	832 05/05/09
	BP-1.1	07/28/00	GR-2.4	04/18/03	MT-96.11 01/16/09
	BP-3.1	10/19/07	GR-3.4	10/16/09	MT-96.20 01/16/09
	BP-4.1	07/16/04	GR-4.2	01/19/07	MT-96.26 01/16/09
				MT-97.10 04/17/09	
	CB-2.3	07/15/05		MT-97.12 04/17/09	
				MT-99.20 01/16/09	
	DM-1.1	04/21/06	TC-41.20	01/19/01	MT-101.60 04/17/09
	DM-4.3	04/17/09	TC-52.10	01/19/07	MT-101.70 01/16/09
	DM-4.4	04/17/09	TC-52.20	01/19/07	MT-101.90 01/16/09
			TC-65.10	01/21/05	MT-105.10 01/16/09
			TC-65.11	01/21/05	MT-120.00 01/16/09
	RM-1.1	7/18/08	TC-71.10	01/15/10	
	RM-4.2	10/20/06	TC-73.10	01/19/01	



SIGNED: *Bruce Dalton*  
 DATE: 2/22/10

*JL Hart, P.E.*  
 DISTRICT DEPUTY DIRECTOR OF TRANSPORTATION

*John W. M...  
 DIRECTOR, DEPARTMENT OF TRANSPORTATION*

3/8/10  
 APPROVED DATE

3-9-10  
 APPROVED DATE

MODELNAME: Default  
 DESIGN FILE: i:\projects\80180\08180\08180 Title.dgn  
 WORKSTATION: cvahorn DATE: 2/22/2010

FEDERAL-AID PROJECT NO. E070697  
 PID NO. 80180  
 CONSTRUCTION PROJECT NO.  
 RAILROAD INVOLVEMENT NONE  
 RIC-546-0.00  
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**REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:**

PCB-91 REVISED 7/19/02

**AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION:**

847 DATED 10/16/09

**EXISTING STRUCTURE VERIFICATION:**

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

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

**DESIGN SPECIFICATIONS:**

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATION FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002, INCLUDING THE 2003, 2004, 2005 AND 2006 SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

**DESIGN DATA:**

CONCRETE CLASS S - COMPRESSIVE STRENGTH 4.5 ksi  
CONCRETE CLASS C - COMPRESSIVE STRENGTH 4.0 ksi

**DECK PROTECTION METHOD:**

SUPERPLASTICIZED DENSE CONCRETE OVERLAY

**EXISTING PLANS:**

THE ORIGINAL CONSTRUCTION PLANS OF THE EXISTING BRIDGES ARE AVAILABLE UPON REQUEST AT THE DISTRICT 3 OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION, ASHLAND, OH.

STRUCTURE #	PLAN NAME	DATE
RIC-546-0347	RIC-546-3.46	1992
RIC-546-0489	RIC-546-(4.82-5.01-6.51) RIC-546-(0.00-5.14)(8.73-9.08)	1956 1985
RIC-546-0498	RIC-546-(4.82-5.01-6.51) RIC-546-(0.00-5.14)(8.73-9.08)	1956 1985

**CUT LINE CONSTRUCTION JOINT PREPARATION:**

SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL IN PLACE. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

**ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN:**

THESE ITEMS SHALL BE USED AT LOCATIONS IN THE PLAN.

THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED.

THE EXISTING REINFORCING STEEL SHALL BE PRESERVED AS INDICATED IN THE PLANS. EXISTING CONCRETE SHALL BE REMOVED IN A MANNER THAT WILL NOT CUT, ELONGATE, OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL BE NO HEAVIER THAN THE 90 POUND CLASS.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER CUBIC YARD FOR THE ABOVE ITEM, WHICH WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

**ITEM 511 - CLASS S CONCRETE, MISC.: REPAIR**

THE COARSE AGGREGATE SHALL BE LIMESTONE.  
TYPE A WATERPROOFING SHALL BE INCLUDED.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER CUBIC YARD FOR THE ABOVE ITEMS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

**ITEM 511 - CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR):**

**ITEM 511 - CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN:**

THE COARSE AGGREGATE SHALL BE LIMESTONE.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER CUBIC YARD FOR THE ABOVE ITEMS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

**ITEM 847 - EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (1 1/2" NOMINAL THICKNESS):**

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING OVERLAY AS PER DETAILS IN THE PLANS.

THE THICKNESS OF THE EXISTING CONCRETE OVERLAY TO BE REMOVED SHALL BE AS SPECIFIED IN THE PLANS.

THIS ITEM SHALL ALSO BE USED TO REMOVE THE ADDITIONAL CONCRETE THICKNESS AS PER DETAILS IN THE PLANS.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQUARE YARD FOR THE ABOVE ITEMS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

CALCULATED  
DCM  
CHECKED  
DJV

GENERAL NOTES

RIC-546-0.00

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**ITEM 847 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2" THICK):**

**ITEM 847 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY, (VARIABLE THICKNESS), AS PER PLAN:**

THESE ITEMS SHALL BE PERFORMED PER SUPPLEMENTAL SPECIFICATION 847 "BRIDGE DECK REPAIR AND OVERLAY WITH CONCRETE USING SCARIFICATION AND CHIPPING" WITH THE FOLLOWING REVISIONS:

THE THICKNESS OF THE EXISTING CONCRETE OVERLAY REMOVED AND PROPOSED OVERLAY SHALL BE AS SPECIFIED IN THE PLANS.

ALL COARSE AGGREGATE SHALL HAVE AN ABSORPTION OF 1.00% OR GREATER AS DEFINED BY ASTM C-127.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID FOR THE ABOVE ITEMS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

**ITEM SPECIAL - BRIDGE DECK GROOVING:**

THE BRIDGE DECK GROOVING SHALL MEET CMS 511.20.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQUARE YARD FOR THE ABOVE ITEM WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

**ITEM SPECIAL - KEYWAY DRAINS:**

1" DIA. PLASTIC TUBES SHALL BE DRILLED 2" INTO THE ABUTMENT KEYWAY AS SHOWN ON SHEET 30. THE TUBES SHALL BE SPACED AT FOUR (4) FOOT CENTERS

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER EACH FOR THE ABOVE ITEM WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

**ITEM 615-PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN:**

THE PAVEMENT FOR MAINTAINING TRAFFIC SHALL BE LEFT IN PLACE.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQUARE YARD OF THE ABOVE ITEM WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

**TEMPORARY TRAFFIC SIGNAL ACTIVATION FOR PARTIAL ROADWAY CLOSURE:**

THE CONTRACTOR SHALL NOTIFY ODOT DISTRICT 3 PUBLIC INFORMATION OFFICER (PIO) A MINIMUM TEN (10) CALENDAR DAYS ADVANCE NOTICE BEFORE ACTIVATING A TEMPORARY TRAFFIC SIGNAL TO STOP-AND-GO OPERATION FOR PARTIAL ROADWAY CLOSURE.

THE PIO CONTACT INFORMATION IS AS FOLLOWS:

BRIAN STACY  
PUBLIC INFORMATION OFFICER  
ODOT DISTRICT 3  
906 CLARK AVENUE  
ASHLAND, OH 44805  
PHONE 419-207-7182

IN ADDITION, THE TEMPORARY TRAFFIC SIGNAL SHALL BE ACTIVATED PER THE REQUIREMENTS OF ODOT SCD MT-120.00. THE TEMPORARY TRAFFIC SIGNAL SHALL OPERATE IN FLASH MODE FIVE (5) TO SEVEN (7) DAYS PRIOR TO ACTIVATING TO STOP-AND-GO OPERATION. SIGNAL ACTIVATION SHALL NOT OCCUR ON WEEKENDS, MONDAYS, FRIDAYS, OR ANY DAY IMMEDIATELY BEFORE OR AFTER A STATE OBSERVED HOLIDAY.

ALL COSTS ASSOCIATED WITH THE ABOVE DESCRIBED WORK SHALL BE INCLUDED WITH ITEM 614, MAINTAINING TRAFFIC.

**ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ONE OF THE FOLLOWING IMPACT ATTENUATORS:

1. THE QUADGUARD CZ, (24 INCHES WIDE SIX-BAY) WORK ZONE IMPACT ATTENUATOR MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, INC., 35 EAST WACKER DRIVE, CHICAGO, IL 60601 (TELEPHONE: 312-467-6750).

THE LENGTH OF THE SIX-BAY QUADGUARD CZ IS 20'-9". INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DRAWING NUMBER: QSCZCVR-T4  
DRAWING NAME: QUADGUARD CZ SYSTEM FOR CONSTRUCTION ZONES  
REVISION DATE: 5/13/99 REV. J  
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 35-40-10  
DRAWING NAME: QUADGUARD SYSTEM CONCRETE PAD, CZ, QG  
REVISION DATE: 11/19/97 REV. D  
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 35-40-16  
DRAWING NAME: QUADGUARD SYSTEM BACKUP ASSEMBLY, CZ, QG  
REVISION DATE: 7/30/99 REV. F  
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 354051Z  
DRAWING NAME: QUADGUARD CZ SYSTEM NOSE ASSEMBLY, CZ, QG, 24, 30, 36  
REVISION DATE: 5/17/99  
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 35-40-18  
DRAWING NAME: TRANSITION ASSEMBLY, 4 OFFSET, QG  
REVISION DATE: 6/25/99 REV. F  
ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 35400260  
DRAWING NAME: QUADGUARD SYSTEM PCMB ANCHOR ASSEMBLY  
REVISION DATE: 11/19/97 REV. C  
ODOT APPROVAL DATE: 8/27/99

2. THE TRACC (TRINITY ATTENUATING CRASH CUSHION) MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE TRACC IS 21'-0" LONG AND 2'-7" WIDE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DRAWING NUMBER: SS450  
DRAWING NAME: CRASH-CUSHION ATTENUATING TERMINAL PLAN, ELEVATION & SECTIONS  
REVISION DATE: 3/12/99 REV. 1  
ODOT APPROVAL DATE: 8/27/99

(CONTINUED)

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GENERAL NOTES

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**ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL) (CONTINUED)**

DRAWING NUMBER: SS455  
 DRAWING NAME: TRACC TRANSITION TO W-BEAM MEDIAN BARRIER PLAN, ELEVATION & SECTIONS  
 REVISION DATE: 2/18/99  
 ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: SS461  
 DRAWING NAME: TRACC TRANSITION TO CONCRETE SAFETY SHAPE BARRIER PLAN, ELEVATION & SECTIONS  
 REVISION DATE: 6/30/99 REV. 1  
 ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: SS462  
 DRAWING NAME: TRACC TRANSITION TO CONCRETE BARRIER SINGLE SLOPE PLAN, ELEVATION & SECTIONS  
 REVISION DATE: 6/30/99  
 ODOT APPROVAL DATE: 8/27/99

3. THE BARRIER SYSTEMS, INC. TAU-II IMPACT ATTENUATOR, DISTRIBUTED BY ROAD SYSTEMS INC., SALES SUPPORT, 2183 ELM TRACE, AUSTINTOWN, OH 44515, (TELEPHONE 330-799-9291)

THE TAU-II FOR THIS NOTE IS A PARALLEL 8-BAY UNIT (24' LONG AND 35" WIDE). INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DRAWING NUMBER: A040416  
 DRAWING NAME: UNIVERSAL TAU-II PARTS LIST  
 REVISION DATE: 4/22/04  
 ODOT APPROVAL DATE: 10/16/04

DRAWING NUMBER: A040420  
 DRAWING NAME: UNIVERSAL TAU-II FOUNDATION, FLUSH MOUNT BACKSTOP  
 REVISION DATE: 4/28/04  
 ODOT APPROVAL DATE: 10/16/04

DRAWING NUMBER: A040105  
 DRAWING NAME: UNIVERSAL TAU-II FOUNDATION, PCB BACKSTOP (REFERENCED ON A04020)  
 REVISION DATE: 1/07/04  
 ODOT APPROVAL DATE: 10/16/04

DRAWING NUMBER: B040239  
 DRAWING NAME: APPLICATION, FLUSH MOUNT BACKSTOP (TYPICAL FOR PARALLEL 60 MPH UNIT)  
 REVISION DATE: 4/21/04  
 ODOT APPROVAL DATE: 10/16/04

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

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

**ITEM 614-BARRIER REFLECTORS AND OBJECT MARKERS:**

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE CONCRETE BARRIER USED FOR TRAFFIC CONTROL. BARRIER REFLECTORS, OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO CMS 626, EXCEPT THAT THE SPACING SHALL BE 50 FEET. SEE STANDARD DRAWING MT-101.70 FOR ADDITIONAL DETAILS.

**ITEM 614 - MAINTAINING TRAFFIC FOR STRUCTURE RIC-546-0347:**

TWO WAY TRAFFIC ON STRUCTURE RIC-546-0347 SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT THROUGH TRAFFIC ON THIS STRUCTURE MAY HAVE A LANE CLOSURE DURING NORMAL WORKING HOURS USING FLAGGERS AS SHOWN ON STANDARD DRAWING MT-97.10.

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 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**ITEM 614 - MAINTAINING TRAFFIC FOR STRUCTURE RIC-546-0489:**

TWO WAY TRAFFIC ON STRUCTURE RIC-546-0489 SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT THROUGH TRAFFIC ON THIS STRUCTURE SHALL HAVE A SIGNALIZED CLOSURE AS SHOWN ON (SHEET 28) FOR A MAXIMUM OF 30 CONSECUTIVE CALENDAR DAYS (TOTAL BOTH PHASES). THE 30 CONSECUTIVE DAYS SHALL BE CONSIDERED AS AN INTERIM COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE 30 CALENDAR DAYS THAT THE HIGHWAY REMAINS IN A SIGNALIZED CLOSURE, THE CONTRACTOR WILL BE ASSESSED LIQUIDATED DAMAGES AS PER CMS 108.07.

NO EQUIPMENT OR MATERIAL SHALL BE LOCATED OTHER THAN BEHIND THE BARRIER.

RIC-546-0489 AND RIC-546-0498 CANNOT HAVE LANE CLOSURES AT THE SAME TIME.

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 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**ITEM 614 - MAINTAINING TRAFFIC FOR STRUCTURE RIC-546-0498:**

TWO WAY TRAFFIC ON STRUCTURE RIC-546-0498 SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT THROUGH TRAFFIC ON THIS STRUCTURE SHALL HAVE A SIGNALIZED CLOSURE AS SHOWN ON (SHEET 31) FOR A MAXIMUM OF 30 CONSECUTIVE CALENDAR DAYS (TOTAL BOTH PHASES). THE 30 CONSECUTIVE DAYS SHALL BE CONSIDERED AS AN INTERIM COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE 30 CALENDAR DAYS THAT THE HIGHWAY REMAINS IN A SIGNALIZED CLOSURE, THE CONTRACTOR WILL BE ASSESSED LIQUIDATED DAMAGES AS PER CMS 108.07.

NO EQUIPMENT OR MATERIAL SHALL BE LOCATED OTHER THAN BEHIND THE BARRIER.

COUNTY ROAD 31 (BELLVILLE-JOHNSTOWN ROAD) SHALL BE CLOSED AT THE SAME TIME THE LANE CLOSURES OCCUR, SEE (SHEET 21) FOR DETOUR DETAILS.

RIC-546-0489 AND RIC-546-0498 CANNOT HAVE LANE CLOSURES AT THE SAME TIME.

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 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

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GENERAL NOTES

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**ITEM 614 - MAINTAINING TRAFFIC:**

RICHLAND COUNTY ROAD 31 (BELLVILLE-JOHNSTVILLE ROAD)  
DETOUR LIMITATION AND INTERIM COMPLETION DATE:

TWO WAY TRAFFIC ALONG COUNTY ROAD 31 SHALL BE MAINTAINED AT ALL TIMES, EXCEPT WHEN STRUCTURE RIC-546-0498 HAS A LANE CLOSURE, WHEN THROUGH TRAFFIC WILL BE DETOURED AS SHOWN ON THIS SHEET.

THE CONTRACTOR SHALL NOTIFY THE RICHLAND COUNTY ENGINEER, IN WRITING, A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF THE DATE THE COUNTY ROAD 31 DETOUR WILL BE IMPLEMENTED.

THE CONTRACTOR SHALL ALSO NOTIFY, IN WRITING, THE FOLLOWING AGENCIES AT LEAST TEN (10) DAYS PRIOR TO THE TIME THE COUNTY ROAD 31 DETOUR WILL BE IMPLEMENTED:

- TOWNSHIP(S)
- LOCAL FIRE DEPARTMENT(S)
- LOCAL SCHOOL DISTRICT(S)
- COUNTY SHERIFF(S)

THE CONTRACTOR SHALL PROVIDE, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE THE COUNTY ROAD 31 DETOUR SIGNING AS DETAILED ON THIS SHEET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE GATES AND BARRICADES AT THE APPROXIMATE CLOSURE LOCATIONS OF THE ROAD AND THE ADVANCE WARNING SIGNS AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-101.60.

THE THIRTY (30) CONSECUTIVE CALENDAR DAYS SHALL BE CONSIDERED AS AN INTERIM COMPLETION DATE (SECTION 108), AND FOR EACH CALENDAR DAY BEYOND THE THIRTY (30) CONSECUTIVE CALENDAR DAYS THAT THE ROADWAY REMAINS CLOSED TO TRAFFIC, THE CONTRACTOR WILL BE ASSESSED LIQUIDATED DAMAGES, AS PER SECTION 108.07 OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

ACCESS TO PROPERTIES SHALL BE MAINTAINED AT ALL TIMES, AS PER SECTION 614.02 (A).

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATION, 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 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

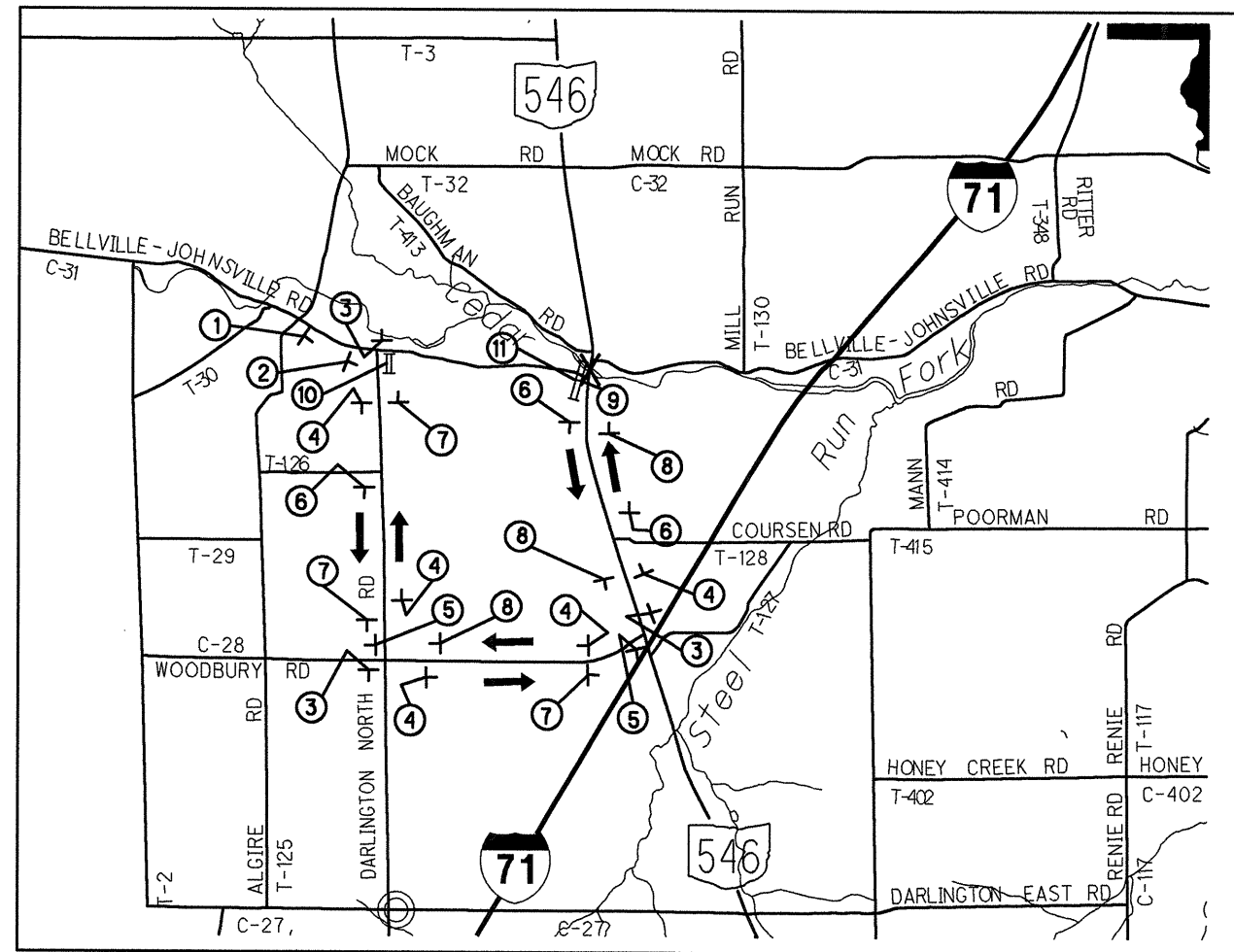
**NOTICE OF CLOSURE SIGNS:**

THESE SIGNS SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE LOCATED IN THE FIELD SO AS NOT TO INTERFERE WITH ANY PERMANENT SIGNS. ON THIS PROJECT, THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614, MAINTAINING TRAFFIC AND SHALL INCLUDE FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE SIGNS INCLUDING SUPPORTS.

**MAINTENANCE OF DETOUR ROUTE:**

DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THE ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DIRECTED BY THE ENGINEER. THE DETOUR ROUTE IS TO BE REVIEWED AND REPAIRED PRIOR TO THE ASPHALT CONTRACTOR OR SUBCONTRACTOR LEAVING THE PROJECT.

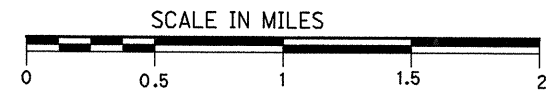
PAYMENT FOR THE WORK NECESSARY TO REPAIR THE DETOUR ROUTE WILL BE PERFORMED BY CHANGE ORDER.



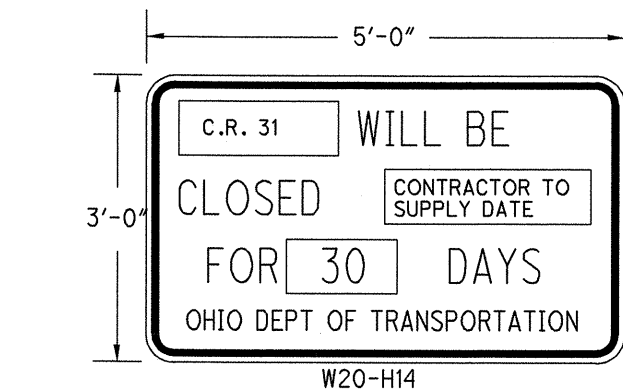
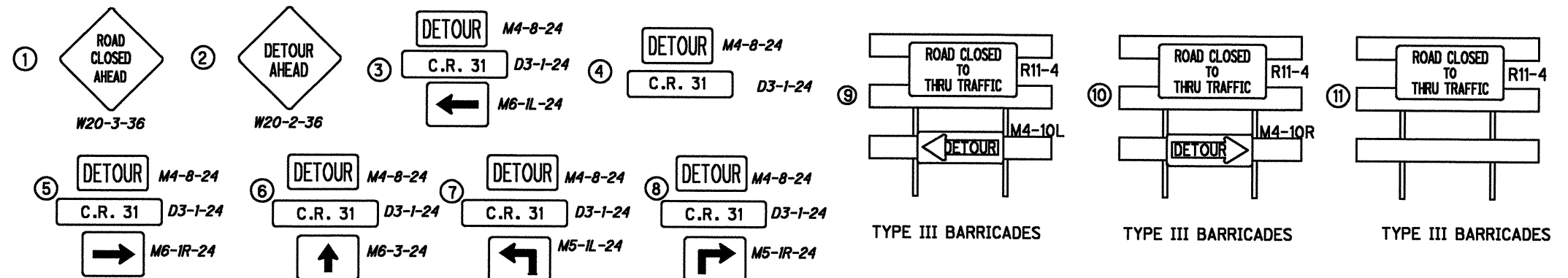
**RICHLAND COUNTY ROAD 31 (BELLVILLE-JOHNSTVILLE ROAD) DETOUR MAP**

**MAP LEGEND**

- X - PROJECT LOCATION
- ↔ - OFFICIAL SIGNED DETOUR
- || - GATES AND BARRICADES, AS PER MT-101.60



**SIGN LEGEND**



**DETOUR SIGNING:**

THE FOLLOWING QUANTITY IS INCLUDED FOR THE CONTRACTOR TO PROVIDE THE DETOUR SIGNING AS SHOWN AS PER 614.06 (B):

ITEM 614, DETOUR SIGNING LUMP

DESIGN FILE: I:\projects\80180\structures\strnotes.dgn  
WORKSTATION:dmollens  
DATE: 2/22/2010  
MODELNAME: Design

CALCULATED  
DCM  
CHECKED  
DUV

MAINTENANCE OF TRAFFIC NOTES - RIC-546-0498  
(BELLVILLE-JOHNSTVILLE RD. C.R. 31)

RIC-546-0.00

DESIGN FILE: I:\projects\80180\structures\brtreat.dgn  
 WORKSTATION:dmollens  
 DATE: 2/22/2010

MODELNAME: Design

COUNTY, ROUTE, BRIDGE NO.	LOCATION	STRUCTURE TYPE	BRIDGE DECK DATA					ROADWAY DATA		
			LENGTH (BRIDGE DECK)	WIDTH	BRIDGE DECK AREA	SKEW	EXISTING WEARING SURFACE	EXISTING PAVEMENT WIDTH	EXISTING APPROACH SLAB WIDTH	EXISTING APPROACH SLAB LENGTH
			FT.	FT.	SQ.YD.			FT.	FT.	FT.
+ RIC-546-0347	OVER STEEL RUN	SINGLE-SPAN PRESTRESS BEAM	41'-3"±	34'±	156	20° RF	ASPHALT	24'-6"±	34	20
** RIC-546-0382	UNDER I-71	3-SPAN CONCRETE I-BEAM								
** RIC-546-0384	UNDER I-71	3-SPAN CONCRETE I-BEAM								
++ RIC-546-0489	OVER WET WEATHER STREAM	SINGLE-SPAN CONCRETE SLAB	21'-3"±	32'-6"±	77	20° RF	CONCRETE	31'-0"±	20	15
++ RIC-546-0498	OVER CEDAR FORK OF MOHICAN RIVER	3-SPAN CONCRETE SLAB	125'-1"±	32'±	445	15° LF	CONCRETE	31'-0"±	20	15
* RIC-546-0787	OVER SMALL CREEK	CONCRETE BOX					ASPHALT	24'-6"±		
* RIC-546-0816	OVER SMALL CREEK	CONCRETE BOX					ASPHALT	24'-6"±		
* RIC-546-0845	OVER SMALL CREEK	CONCRETE BOX					ASPHALT	24'-6"±		

\* PAVE OVER STRUCTURE (NO STRUCTURE WORK). (SEE ROADWAY PLANS FOR PAVING QUANTITIES)

\*\* NO WORK (SEE ROADWAY PLANS FOR PAVING UNDER STRUCTURE)

+ SEE SHEET 25 FOR PLANING AND PAVING DETAILS.( SEE DETAILS IN THE PLAN FOR STRUCTURE WORK)  
 (SEE ROADWAY PLANS FOR PAVING QUANTITIES)

RIC-546-0347 ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE: 754 SQUARE YARDS  
 (CARRIED TO GENERAL SUMMARY SHEET, SHEET NO. 5)

++ TAPER THE PLANING FROM 0" DEEP TO 2¼" DEEP IN 100' AT THE APPROACH TO THE APPROACH SLABS. PLANE 1" DEEP ON APPROACH SLABS, BUTT JOINT AT  
 BRIDGE DECK, OMIT RESURFACING OVER BRIDGE DECK (SEE DETAILS IN THE PLAN FOR STRUCTURE WORK). (SEE ROADWAY PLANS FOR PAVING QUANTITIES).

RIC-546-0489 ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE: 793 SQUARE YARDS  
 (CARRIED TO GENERAL SUMMARY SHEET, SHEET NO. 5)

RIC-546-0498 ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE: 793 SQUARE YARDS  
 (CARRIED TO GENERAL SUMMARY SHEET, SHEET NO. 5)

DESIGN AGENCY  
 ODOT DISTRICT 3  
 OFFICE OF PRODUCTION

DATE  
 2/10

REVIEWED  
 RDN

DRAWN  
 DCM

DESIGNED  
 DCM

CHECKED  
 DJV

BRIDGE TREATMENT

RIC-546-0.00

22  
 31

RIC-546-0498 SFN 7006845

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	11301	6.6	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	18
511	34401	1.7	CU YD	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN	18
511	34450	2.7	CU YD	CLASS S CONCRETE, MISC.: REPAIR	18
511	45701	2.0	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)	18
SPECIAL	51160000	445	SQ YD	BRIDGE DECK GROOVING	19
516	31000	42	FT	JOINT SEALER	
SPECIAL	51861400	14	EACH	KEYWAY DRAIN	19
520	11100	28	SQ FT	PNEUMATICALLY PLACED MORTAR	
614	12336	4	EACH	WORK ZONE IMPACT ATTENUATOR (UNDIRECTIONAL)	19
614	13202	15	EACH	BARRIER REFLECTOR, TYPE A2	
614	13302	14	EACH	BARRIER REFLECTOR, TYPE B2	
614	13360	12	EACH	OBJECT MARKER, TWO WAY	
614	21200	.06	MILE	WORK ZONE CENTER LINE, CLASS 1, 740.06, TYPE I	
614	22200	.30	MILE	WORK ZONE EDGE LINE, CLASS 1, 740.06, TYPE I	
614	26400	24	FT	WORK ZONE STOP LINE, CLASS 1, 740.06, TYPE I	
615	10000	LUMP		ROADS FOR MAINTAINING TRAFFIC	
615	25001	52	SQ YD	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN	19
622	40020	280	FT	PORTABLE CONCRETE BARRIER, 32"	
622	40040	280	FT	PORTABLE CONCRETE BARRIER, 32", BRIDGE MOUNTED (UNANCHORED)	
847	10201	445	SQ YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2" THICK)	19
847	20201	10	CU YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN	19
847	30000	LUMP		TEST SLAB	
847	30401	445	SQ YD	EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (1 1/2" NOMINAL THICKNESS)	18

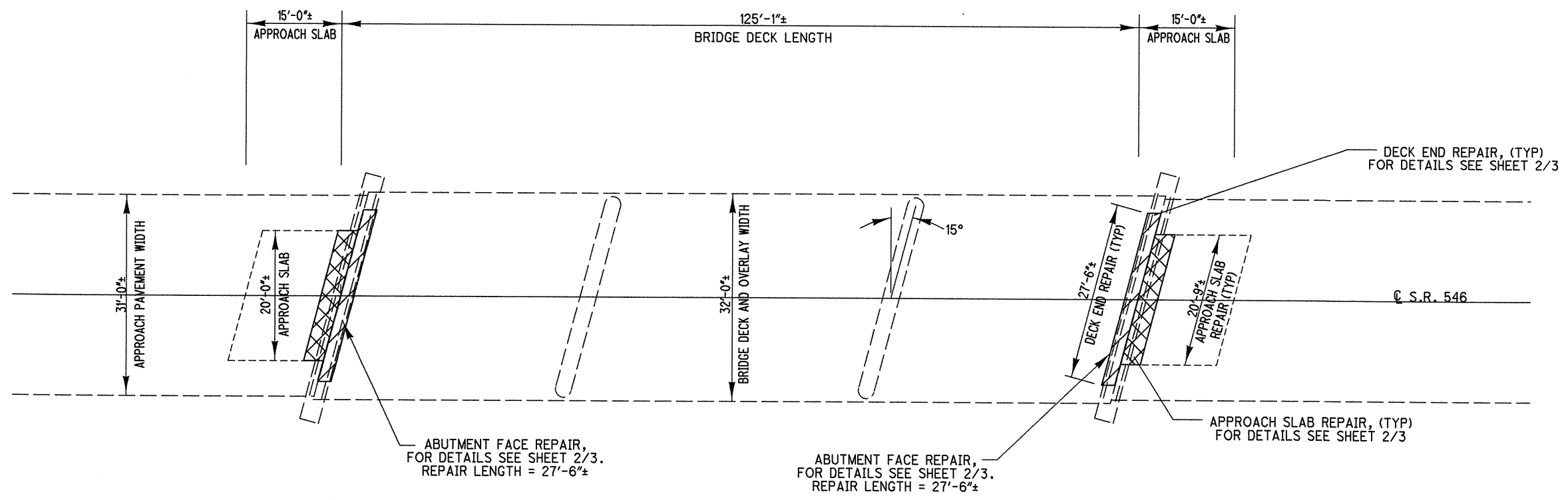
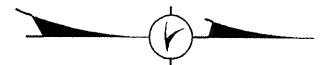
DESIGN FILE: I:\projects\80180\structures\strsum.dgn  
 WORKSTATION:dmollens  
 MODELNAME: Design  
 DATE: 2/23/2010

DESIGN AGENCY  
 ODOT DISTRICT 3  
 OFFICE OF PRODUCTION

DATE	2/10
REVIEWED	RDN
DRAWN	DCM
DESIGNED	DCM
CHECKED	DJV
REVISED	

STRUCTURE SUMMARY

RIC-546-0.00



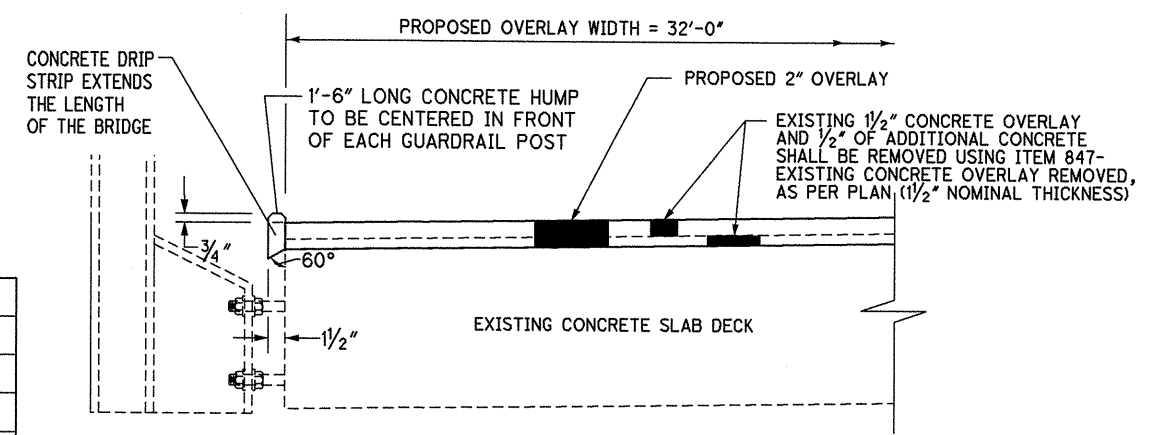
**PLAN VIEW**

**LEGEND**

- ITEM 202-PORCTIONS OF STRUCTURE REMOVED, AS PER PLAN AND ITEM 511-CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN
- ITEM 202-PORCTIONS OF STRUCTURE REMOVED, AS PER PLAN AND ITEM 511-CLASS S CONCRETE MISC.: REPAIR

ITEM	QUANTITY	UNIT	DESCRIPTION
202	6.6	CU YD	PORCTIONS OF STRUCTURE REMOVED, AS PER PLAN
511	1.7	CU YD	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN
511	2.7	CU YD	CLASS S CONCRETE, MISC.: REPAIR
511	2.0	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)
SPECIAL	445	SQ YD	BRIDGE DECK GROOVING
516	42	FT	JOINT SEALER
SPECIAL	14	EACH	KEYWAY DRAIN
520	28	SQ FT	PNEUMATICALLY PLACED MORTAR
847	445	SQ YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2" THICK)
847	10	CU YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN
847	LUMP		TEST SLAB
847	445	SQ YD	EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (1 1/2" NOMINAL THICKNESS)

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET.



**OVERLAY DETAIL**

DECK LENGTH 125'-1"±

- NOTES:**
- GUARDRAIL NOT SHOWN.
  - THE EXISTING 1 1/2" THICK CONCRETE OVERLAY AND 1/2" OF ADDITIONAL DECK THICKNESS, 32'-0" WIDE SHALL BE REMOVED USING ITEM 847-EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (1 1/2" NOMINAL THICKNESS).
  - 32'-0" OF THE BRIDGE DECK SHALL BE OVERLAYED USING ITEM 847-SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2" THICK).
  - SEAL JOINT BETWEEN DECK AND APPROACH SLAB WITH ITEM 516.

DESIGN FILE: i:\projects\801180\structures\str5460498.dgn  
 WORKSTATION: dmollens  
 MODELNAME: Design  
 DATE: 2/22/2010

DESIGN AGENCY  
**ODOT DISTRICT THREE**  
 OFFICE OF PRODUCTION

DESIGNED  
 DCM  
 CHECKED  
 DJV

DRAWN  
 DCM  
 REVISED

REVIEWED  
 RDN  
 DATE  
 2/10

STRUCTURE FILE NUMBER  
 7006845

**PLAN VIEW**  
**RIC-546-0498**  
**OVER CEDAR FORK OF MOHICAN RIVER**

**RIC-546-0.00**

DESIGN FILE: I:\projects\80180\structures\str5460498.dgn  
 WORKSTATION: dmollens DATE: 2/22/2010

MODELNAME: Design

DESIGN AGENCY  
 ODOT DISTRICT THREE  
 OFFICE OF PRODUCTION

DATE  
 2/10  
 REVIEWED  
 RDN  
 STRUCTURE FILE NUMBER  
 7006845

DRAWN  
 DCM  
 REVISIONS

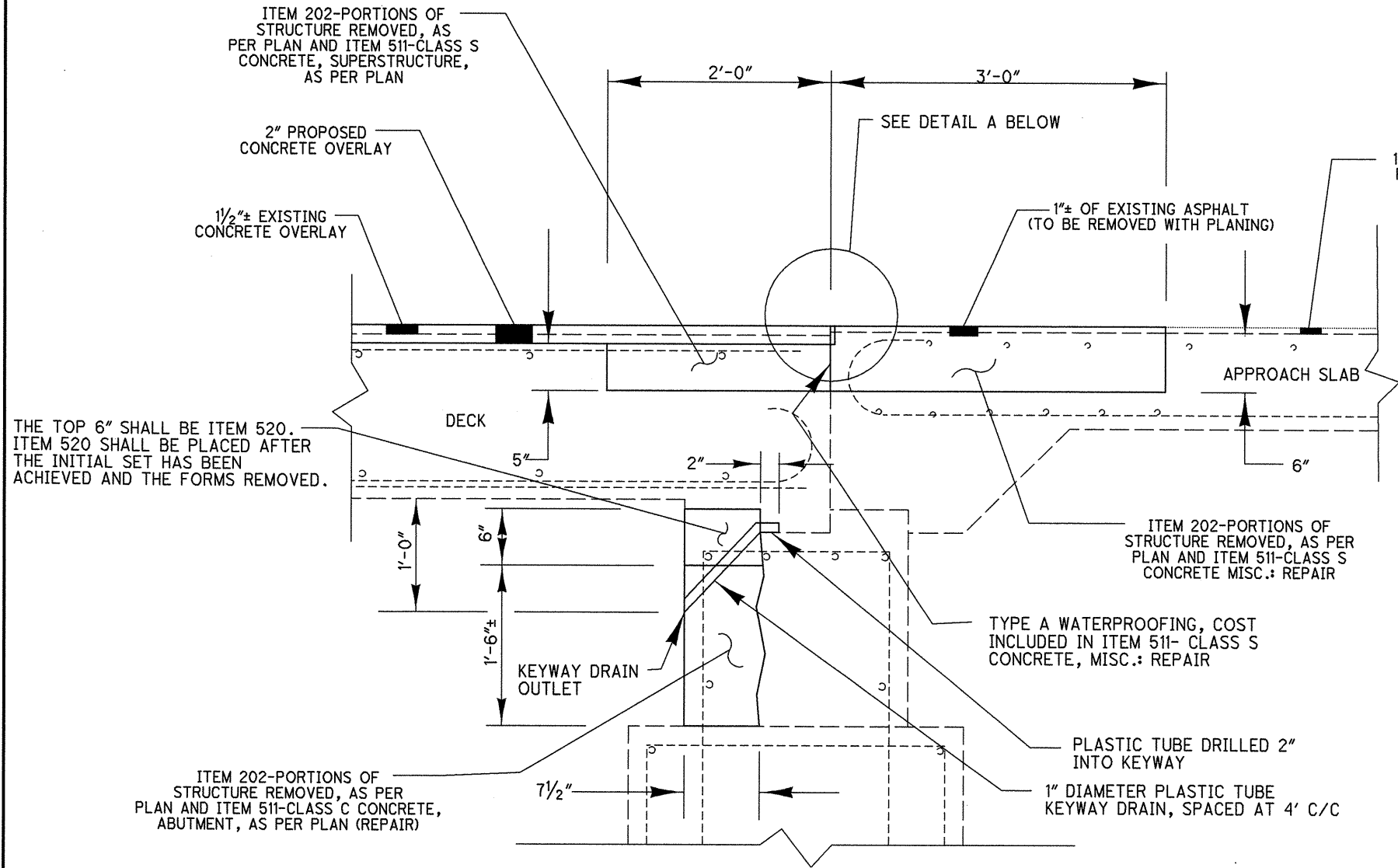
DESIGNED  
 DCM  
 CHECKED  
 DJV

ABUTMENT BACKWALL REPAIR DETAILS  
 RIC-546-0498 OVER CEDAR FORK OF MOHICAN RIVER

RIC-546-0.00

2 / 3

30  
 31



**TYPICAL ABUTMENT DETAIL**

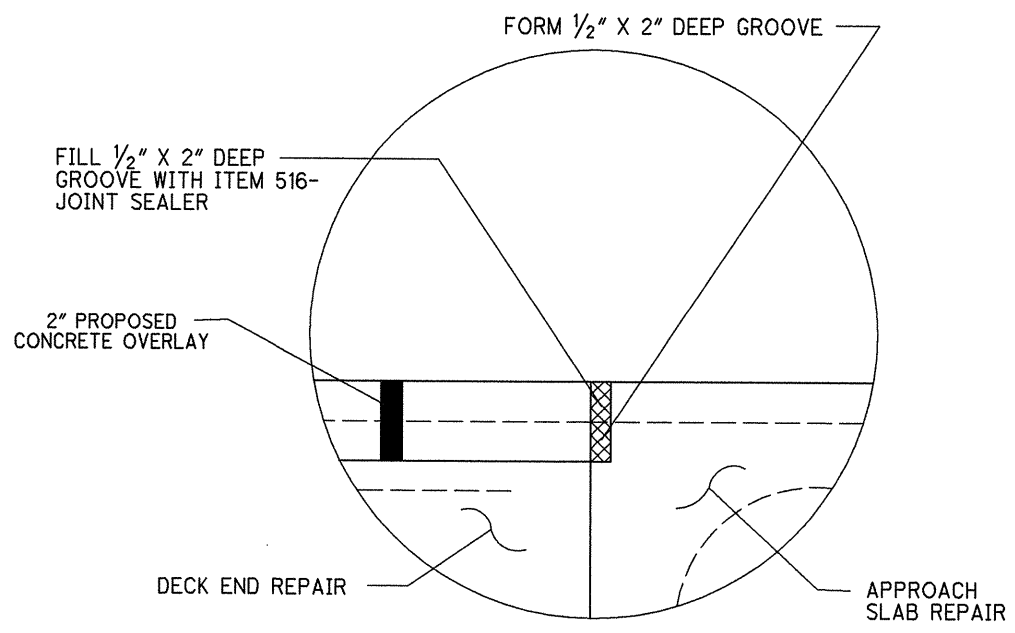
(DECK REPAIR LENGTH = 27'-6"±  
 ABUTMENT REPAIR LENGTH = 27'-7"±  
 APPROACH SLAB REPAIR LENGTH = 20'-9"±)

**LEGEND**

C/C - CENTER TO CENTER

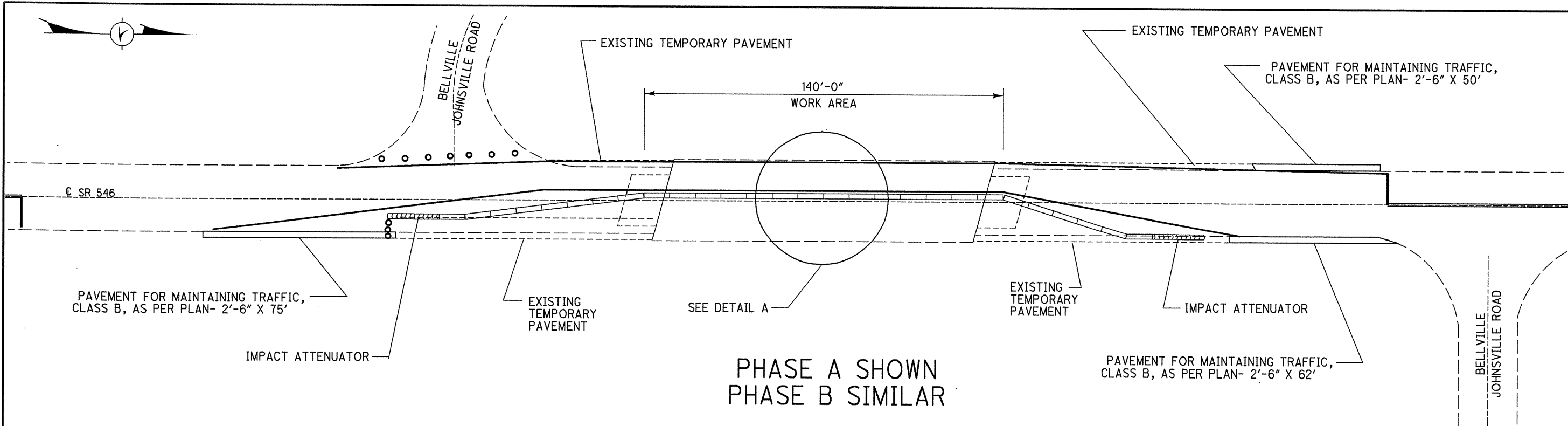
ITEM	QUANTITY	UNIT	DESCRIPTION
202	6.6	CU YD	PORCTIONS OF STRUCTURE REMOVED, AS PER PLAN
511	1.7	CU YD	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN
511	2.7	CU YD	CLASS S CONCRETE, MISC.: REPAIR
511	2.0	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)
516	42	FT	JOINT SEALER
SPECIAL	14	EACH	KEYWAY DRAIN
520	28	SQ FT	PNEUMATICALLY PLACED MORTAR

ALL QUANTITIES CARRIED TO SHEET 1/3.



**DETAIL A**

DESIGN FILE: i:\projects\80180\structures\mot.dgn  
 WORKSTATION:dmollens DATE: 2/22/2010  
 MODELNAME: Design



### SIGNAL TIMING

A TWO PHASE CONTROLLER WITH CABINET CAPABLE OF BEING SET WITH THE FOLLOWING SPLITS SHALL BE FURNISHED

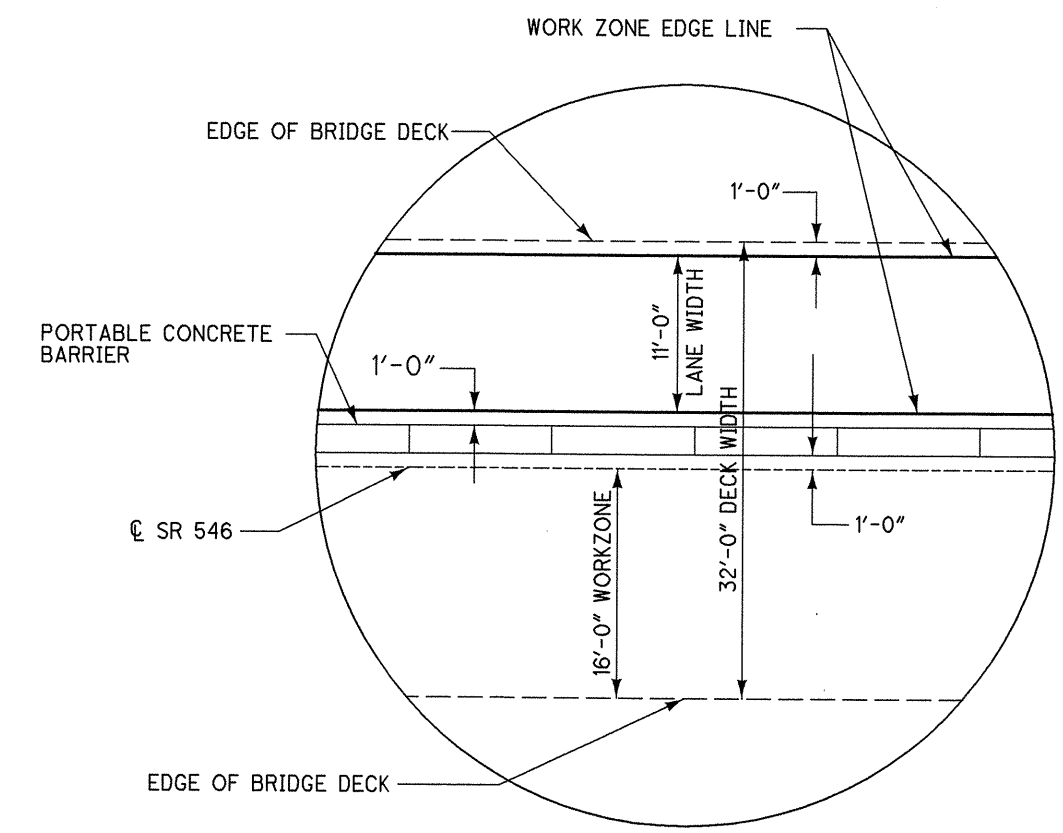
CYCLE LENGTH: 70 SECONDS

	GREEN	AMBER	RED
PHASE A	15	5	15
PHASE B	15	5	15

THE ABOVE TIMING MAYBE CHANGED WITH THE APPROVAL OF THE ENGINEER

ITEM	QUANTITY	UNIT	DESCRIPTION
614	4	EACH	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)
614	15	EACH	BARRIER REFLECTOR, TYPE A2
614	14	EACH	BARRIER REFLECTOR, TYPE B2
614	12	EACH	OBJECT MARKER, TWO WAY
614	.06	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I
614	.30	MILE	WORK ZONE EDGE LINE, CLASS I, 740.06, TYPE I
614	24	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I
615	LUMP		ROADS FOR MAINTAINING TRAFFIC
615	52	SQ YD	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN
622	280	FT	PORTABLE CONCRETE BARRIER, 32"
622	280	FT	PORTABLE CONCRETE BARRIER, 32", BRIDGE MOUNTED (UNANCHORED)

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET



DETAIL A

- NOTES:
- 1) THE EXISTING BRIDGE RAILING IS NOT SHOWN IN THE PLAN VIEW.
  - 2) FOR ADDITIONAL DETAILS, SEE SCDS MT-96.11, MT-96.20 AND MT-96.26.

DESIGN AGENCY: ODOT DISTRICT THREE  
 OFFICE OF PRODUCTION

DATE: 2/10  
 RDN  
 STRUCTURE FILE NUMBER: 7006845

DESIGNED: DCM  
 CHECKED: DCM

MAINTENANCE OF TRAFFIC PLAN  
 RIC-546-0498  
 OVER CEDAR FORK OF MOHICAN RIVER

RIC-546-0.00

3 / 3

31 / 31