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OHIO TURNPIKE COMMISSION THE JAMES W. SHOCKNESSY OHIO TURNPIKE CONTRACT 43-12-03 (REBID) BRIDGE REHABILITATIONS

(No Addendums Noted)

FILE COPY

APPROVED FOR
THE OHIO TURNPIKE COMMISSION

BY
Douglas F. Hull
CHIEF ENGINEER

JAN 17, 2013

DATE

PLAN PREPARED BY

DGL Consulting Engineers, LLC
3455 Briarfield Blvd. - Suite E Maumee, Ohio 43537
(419) 535-1015



1/16/2013

DATE

SHEETS 18A & 18B
PREPARED BY:

URS

Akron Cleveland Columbus
564 White Pond Drive, Akron, Ohio 44320-1100
PHONE: (330) 836-9111, FAX: 330-836-9115



Paul J. Wischit

11/28/12
DATE

OHIO DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS

- | | | |
|-----------|--|----------|
| TC-41.20 | YIELDING POST | 01/19/01 |
| TC-52.10 | SIGN BLANK DETAILS I | 01/19/07 |
| TC-52.20 | SIGN BLANK DETAILS II | 01/19/07 |
| MT-97.10 | FLAGGERS CLOSING 1 LANE OF A TWO LANE HIGHWAY-STATIONARY OPERATION | 10/15/10 |
| MT-101.60 | ROAD CLOSURE USING TYPE III BARRICADES | 04/17/09 |
| MT-105.10 | TEMPORARY SIGN SUPPORT | 01/16/09 |

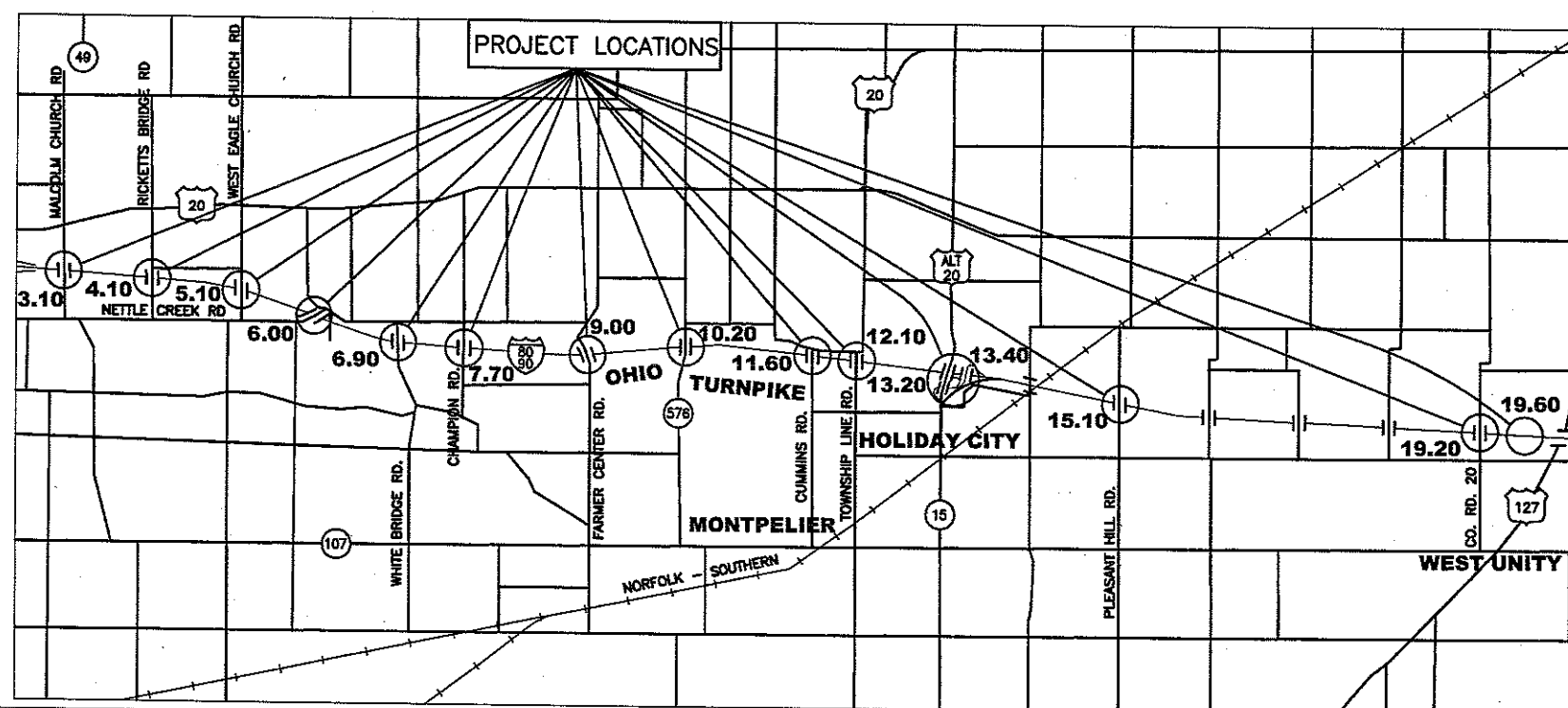
OHIO DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS

- | | | |
|---------|---|----------|
| SS 821 | ARROW BOARD | 04/20/12 |
| SS 848 | BRIDGE DECK REPAIR AND OVERLAY WITH CONCRETE USING HYDRO-DEMOLITION | 10/21/11 |
| SS 921 | ARROW BOARD | 04/20/12 |
| SS 1021 | ARROW BOARD PREQUALIFICATION PROCEDURES | 04/20/12 |

OHIO TURNPIKE COMMISSION STANDARD DRAWINGS

- | | |
|--------|--|
| CB-1 | CATCH BASIN, NO. CB-1 & SLOPE DRAIN DETAIL |
| CL-2 | CHAIN LINK SAFETY FENCE (ALL ALUMINUM) DETAILS, TYPE II |
| DJ-1 | DECK JOINT DETAILS, CELLULAR ABUTMENTS |
| DJ-2 | DECK JOINT DETAILS |
| DJ-5 | DECK JOINT DETAILS AT PIERS |
| F-1 | RIGHT OF WAY FENCE |
| TCR-1 | TEMPORARY TRAFFIC CONTROL GENERAL NOTES |
| TCR-2 | TEMPORARY TRAFFIC CONTROL DETAILS, LEGEND, NOTES, AND STANDARD SINGLE LANE CLOSURE |
| TCR-9 | TEMPORARY TRAFFIC CONTROL SHORT DURATION/SHORT TERM SHOULDER CLOSURE |
| TCR-12 | TEMPORARY TRAFFIC CONTROL SINGLE AND DOUBLE LANE SHIFT ZONES |
| TCR-15 | TEMPORARY TRAFFIC CONTROL SIGNS FOR MAINTENANCE & CONSTRUCTION |

WILLIAMS COUNTY, OHIO



Call TWO WORKING DAYS
BEFORE YOU DIG
OHIO UTILITIES PROTECTION SERVICE
IN OHIO - 800-362-2764
NON-MEMBERS MUST BE CALLED DIRECTLY

BRIDGE ESTIMATED QUANTITY SUMMARY																			
ITEM	TOTAL	UNIT	DESCRIPTION	STRUCTURE MILE POST LOCATION															
				MP 19.60	MP 3.10	MP 4.10	MP 5.10	MP 6.00	MP 6.90	MP 7.70	MP 9.00	MP 10.20	MP 11.60	MP 12.10	MP 13.20	MP 13.20 (RAMP)	MP 13.40	MP 15.10	MP 19.20
SP 202	LUMP SUM		PORTIONS OF STRUCTURE REMOVED	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP
SP 509	300 (**)	POUND	EPOXY COATED REINFORCING STEEL, GRADE 60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100 (**)	100 (**)	100 (**)	N/A	N/A
510	554	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	48	32	32	32	N/A	32	32	N/A	N/A	32	32	64	62	52	52	52
511	10	CU. YD.	CLASS S CONCRETE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	N/A	N/A	N/A	7	N/A	N/A	N/A
513	10 (**)	EACH	WELDED STUD SHEAR CONNECTORS, AS PER PLAN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10 (**)	N/A	N/A	N/A	N/A
SP 516A	112 (**)	LIN. FT.	CRACK REPAIR USING EPOXY INJECTION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	50 (**)	N/A	50 (**)	N/A	N/A
SP 516B	9311	LIN. FT.	SEALING OF CONSTRUCTION JOINTS	N/A	633	633	641	736	684	635	660	678	634	638	785	589	721	644	N/A
SP 516G	253	EACH	REPLACE EXPANSION BEARING DEVICE	N/A	20	20	20	N/A	20	20	N/A	N/A	20	20	32	21	20	20	20
SP 516H	1	EACH	REHABILITATION OF FIXED BEARING ASSEMBLY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A
SP 516J	77	EACH	REPLACE FIXED BEARING DEVICE	24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16	7	10	10	10
SP 519	1500	SQ. FT.	PATCHING CONCRETE STRUCTURES	N/A	110	105	235	45	195	115	30	110	90	10	160	55	205	35	N/A
SP 519C	93	EACH	CONCRETE PARAPET REPAIRS	N/A	16	N/A	12	N/A	9	34	N/A	N/A	21	N/A	N/A	N/A	1	N/A	N/A
SP 527	LUMP SUM		FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES	N/A	LUMP	LUMP	LUMP	N/A	LUMP	LUMP	N/A	N/A	LUMP	N/A	LUMP	N/A	LUMP	N/A	N/A
SP 533E	90	LIN. FT.	CONTINUOUS ELASTOMER SEAL IN ELASTOMERIC CONCRETE JOINT	N/A	30	N/A	30	N/A	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SP 533F	579	LIN. FT.	REPLACEMENT OF COMPRESSION SEAL WITH CONTINUOUS ELASTOMER SEAL	N/A	60	60	60	N/A	60	60	64	35	60	60	N/A	N/A	N/A	60	N/A
SP 533G	60	LIN. FT.	REPLACEMENT OF STRIP SEAL WITH CONTINUOUS ELASTOMER SEAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30	N/A	N/A	N/A	30	N/A
SP 533H	449	LIN. FT.	CONTINUOUS ELASTOMER SEAL IN STRUCTURAL STEEL JOINT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	35	N/A	N/A	188	94	132	N/A	N/A
SP 536	9990	SQ. YD.	CONCRETE WEATHERPROOFING, DECK, ABUTMENT SLABS AND APPROACH SLABS	N/A	575	575	585	915	575	575	710	810	575	680	1155	705	865	690	N/A
SP 536	6245	SQ. YD.	CONCRETE WEATHERPROOFING, PARAPETS	N/A	450	450	455	600	450	450	455	435	450	435	450	245	480	440	N/A
SP 536	3813	SQ. YD.	CONCRETE WEATHERPROOFING, SUBSTRUCTURE	N/A	8	5	4	5	3	3	450	485	450	450	600	450	450	450	N/A
SP 607A	LUMP		REMOVE AND REUSE EXISTING FENCE	N/A	LUMP	N/A	LUMP	N/A	LUMP	LUMP	N/A	N/A	LUMP	N/A	N/A	N/A	N/A	N/A	N/A
621	4	EACH	RPM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	N/A	N/A	N/A	N/A
642	0.10	MLE	EDGE LINE, TYPE 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.10	N/A	N/A	N/A	N/A
642	0.20	MLE	EDGE LINE, TYPE 1, AS PER PLAN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.20	N/A	N/A
642	0.05	MLE	CENTER LINE, TYPE 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.05	N/A	N/A	N/A	N/A
642	690	SQ. FT.	ISLAND MARKING, TYPE 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	690	N/A	N/A
848	2118	SQ. YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, 2" THICK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1200	N/A	918	N/A	N/A
848	2118	SQ. YD.	SURFACE PREPARATION USING HYDRODEMOLITION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1200	N/A	918	N/A	N/A
848	10	CU. YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	N/A	3	N/A	N/A
848	9	SQ. YD.	HAND CHIPPING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	N/A	3	N/A	N/A
848	LUMP SUM		TEST SLAB	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	LUMP	N/A	LUMP	N/A	N/A
848	26	CU. YD.	FULL DEPTH REPAIR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15	N/A	11	N/A	N/A

NOTES:

- FOR GENERAL NOTES SEE SHEET 17 AND 18.
- SPECIFIC STRUCTURE REHABILITATION SCOPE OF WORK AND ESTIMATED QUANTITIES ARE SHOWN ON THE GENERAL PLAN AND PROFILE SHEET FOR EACH BRIDGE STRUCTURE.
- (**) - CONTINGENCY QUANTITY, TO BE

TEMPORARY TRAFFIC CONTROL NOTES -- OHIO TURNPIKE

1. SAFETY AND CONTINUITY OF OPERATIONS OF TRAFFIC ON THE OHIO TURNPIKE SHALL BE OF THE UTMOST IMPORTANCE AND SHALL AT ALL TIMES BE PROTECTED AND SAFEGUARDED. THE CONTRACTOR SHALL DAILY, NOT LATER THAN 12 O'CLOCK NOON, INFORM THE RESIDENT ENGINEER AS TO HIS OPERATIONS AND METHOD OF WORK FOR THE FOLLOWING DAY. WHENEVER SUCH WORK MAY AFFECT THE SAFETY OF TRAFFIC ON THE OHIO TURNPIKE, THE METHOD OF DOING SUCH WORK SHALL BE SUBMITTED TO THE CHIEF ENGINEER FOR HIS APPROVAL, WITHOUT WHICH IT SHALL NOT BE COMMENCED OR PROSECUTED.
2. THE CONTRACTOR'S RESPONSIBILITY TO THE SAFETY OF THE MOTORING PUBLIC WHILE PERFORMING THE REQUIREMENTS OF THE CONTRACT SHALL BE IN ACCORDANCE WITH THESE TEMPORARY TRAFFIC CONTROL PLANS, THE SPECIFICATIONS AND SPECIAL PROVISIONS, THE CURRENT EDITION, LATEST REVISION OF THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND "TEMPORARY TRAFFIC CONTROL ON THE OHIO TURNPIKE", LATEST REVISION.
3. SEMI-RIGID TRAFFIC SIGNS ON X-FOOTPRINT SIGN STANDS SHALL BE FURNISHED, INSTALLED, MAINTAINED AND REMOVED BY THE CONTRACTOR. ALL SIGNS SHALL FOLLOW ASTM D4956 FOR RETROREFLECTIVITY. THE COMMISSION MAY FURNISH, INSTALL, MAINTAIN AND REMOVE CHANGEABLE MESSAGE SIGNS. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN, MOVE AND REMOVE ALL CONES, DRUMS, FLASHING ARROW PANELS, SEMI-RIGID SIGNS, AND X-FOOTPRINT SIGN STANDS IN ACCORDANCE WITH THE TEMPORARY TRAFFIC CONTROL DRAWINGS.
4. THE CONTRACTOR SHALL IMMEDIATELY CORRECT ANY DEFICIENCY IN TRAFFIC ZONE ALIGNMENT, EQUIPMENT, NUMBER OF DEVICES OR PROCEDURE OF FLAG PERSONS WHICH IS BROUGHT TO THE CONTRACTOR'S ATTENTION BY THE CHIEF ENGINEER. THE CONTRACTOR SHALL HAVE AN INDIVIDUAL SUITABLY EQUIPPED TO PROPERLY MAINTAIN, REPLACE OR ADJUST ANY TRAFFIC CONTROL DEVICES ON THE SITE, AVAILABLE, AND IN RADIO CONTACT AT ALL TIMES SUCH DEVICES ARE IN USE.
5. IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT IN WRITING ALTERNATE METHODS FOR THE TEMPORARY TRAFFIC CONTROL, PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED IN WRITING BY THE CHIEF ENGINEER.
6. IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS OR WITH PROVISIONS OF THE MANUAL OR WITH PROVISIONS OF "TEMPORARY TRAFFIC CONTROL ON THE OHIO TURNPIKE", THE CHIEF ENGINEER MAY SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.
7. ALL DRUMS AND CONES ORIGINALLY FURNISHED FOR THIS PROJECT SHALL BE LIKE NEW AS SHOWN ON OTC STANDARD DRAWING TCR-2 AND AS DESCRIBED HERE IN. THE DRUMS AND CONES MAY BE REUSED IN SUBSEQUENT CONSTRUCTION PHASES PROVIDED THEY ARE FREE OF DAMAGE AND DISPLAY THE REQUIRED REFLECTORIZATION, AS DETERMINED BY THE CHIEF ENGINEER. ANY DRUM OR CONE DETERMINED TO BE UNACCEPTABLE BY THE CHIEF ENGINEER SHALL BE REPLACED WITH A NEW DRUM OR CONE. PAYMENT FOR DRUMS AND CONES INCLUDING THE SETTING, MAINTENANCE, REPLACEMENT AND SUBSEQUENT REMOVAL SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM SP 614--MAINTAINING TRAFFIC.
8. SINCE FLAGGERS ARE RESPONSIBLE FOR HUMAN SAFETY AND MAKE THE GREATEST NUMBER OF CONTACTS WITH THE TRAVELING PUBLIC OF ALL CONSTRUCTION PERSONNEL, IT IS IMPORTANT THEY ARE MENTALLY ALERT, COURTEOUS BUT WITH A FIRM MANNER, PROPERLY ATTIRED WITH A NEAT APPEARANCE, AWARE OF THEIR RESPONSIBILITY FOR THE SAFETY OF THE MOTORISTS AND THE CONSTRUCTION PERSONNEL, AND INFORMED OF THE EXACT TRAFFIC MOVEMENTS THAT THEY ARE TO CONTROL. FLAGGERS SHALL WEAR APPROVED VESTS OR JACKETS WHICH ARE TO BE REFLECTORIZED FOR NIGHTTIME OPERATIONS. FLAGGERS ARE TO USE RED FLAGS (RED FLAGS SHALL BE A MINIMUM OF 24" X 24" IN SIZE). THE USE OF FLAGGERS SHALL BE AS DIRECTED BY THE CHIEF ENGINEER. HOWEVER, AS A MINIMUM THE CONTRACTOR SHOULD EXPECT TO PROVIDE A FLAGGER AT LOCATIONS WHERE VEHICLES AND/OR EQUIPMENT MERGES INTO AND OUT OF THE TRAFFIC FLOW PATTERN.
9. LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS ALONG THE MAINLINE SHALL BE AT THE APPROVAL OF THE CHIEF ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE CHIEF ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC CONTROL DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.
10. AMBER FLASHING LIGHTS SHALL BE USED ON ALL VEHICLES AND/ OR EQUIPMENT FOR INGRESS AND EGRESS OF THE WORK ZONE. WHILE IN THE WORK ZONE LIMITS THE FLASHERS ARE TO BE TURNED OFF.
11. THE CONTRACTOR'S REQUEST FOR USE OF A NIGHT WORK ZONE SHALL COMPLY WITH SP 106 AND INCLUDE THE TYPE OF WORK TO BE DONE, THE DURATION OF THE WORK, LOCATION OF THE INTENDED WORK, AND THE CONTRACTOR'S PROPOSED LIGHTING PLAN. TEMPORARY LIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE SUCH THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE HIGHWAY. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE CHIEF ENGINEER BEFORE WORK PROCEEDS. ALL TEMPORARY LIGHTING REQUIRED FOR NIGHT WORK SHALL BE INCIDENTAL AND INCLUDED IN THE LUMP SUM BID FOR ITEM SP 614 MAINTAINING TRAFFIC.
12. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR TEMPORARY TRAFFIC CONTROL SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM SP 614 MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLANS.

APPLICABLE STANDARD DRAWINGS

OTC STANDARD DRAWINGS

- TCR-1 TEMPORARY TRAFFIC CONTROL GENERAL NOTES
- TCR-2 TEMPORARY TRAFFIC CONTROL DETAILS, LEGEND, NOTES AND STANDARD SINGLE LANE ZONE
- TCR-9 TEMPORARY TRAFFIC CONTROL SHOULDER ZONES
- TCR-12 TEMPORARY TRAFFIC CONTROL SINGLE AND DOUBLE LANE SHIFT ZONES
- TCR-15 TEMPORARY TRAFFIC CONTROL SIGNS MAINTENANCE AND CONSTRUCTION

ODOT STANDARD DRAWINGS

- TC-41.20 YIELDING POST
- TC-52.10 SIGN BLANK DETAILS I
- TC-52.20 SIGN BLANK DETAILS II
- MT-97.10 FLAGGERS CLOSING 1 LANE OF A 2-LANE HIGHWAY STATIONARY OPERATION
- MT-101.60 ROAD CLOSURE USING TYPE III BARRICADES
- MT-105.10 TEMPORARY SIGN SUPPORT

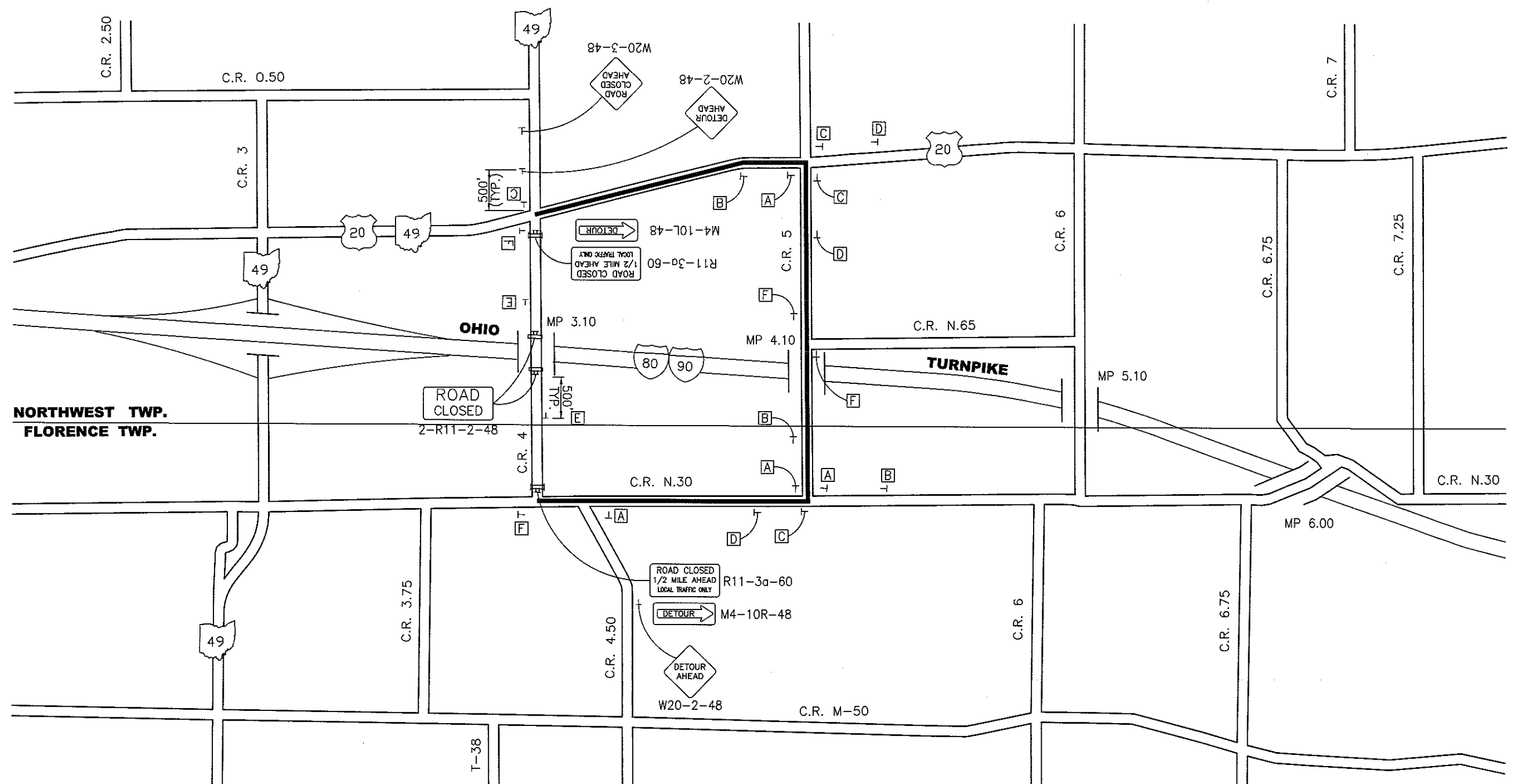
TEMPORARY TRAFFIC CONTROL

ITEM SP 614. MAINTAINING TRAFFIC

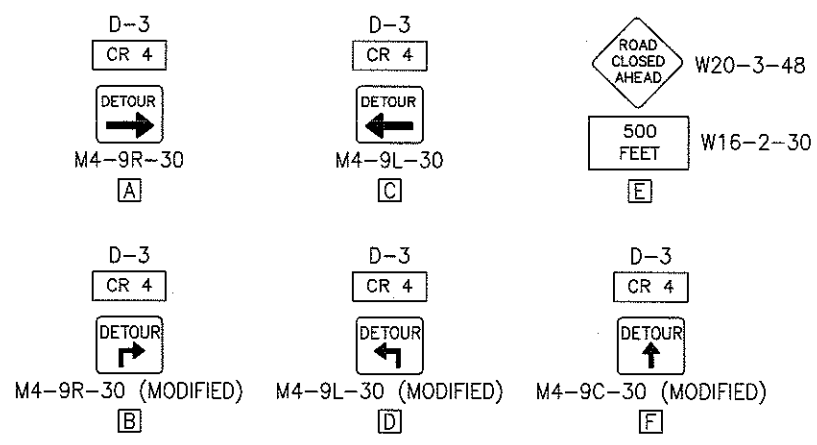
- MALCOLM CHURCH RD. (CR 4)
- RICKETTS BRIDGE RD. (TR 5)
- WEST EAGLE CHURCH RD. (CR 8)
- NETTLE CREEK RD. (CR N.30)
- WHITE BRIDGE RD. (CR 7.75)
- CHAMPION RD. (TR 8.50)
- FARMER CENTER RD. (CR 10)
- STATE ROUTE 576
- CUMMINS RD. (TR 12.5)
- TOWNSHIP LINE RD. (CR 13)
- STATE ROUTE 15 (EXIT 13)
- STATE ROUTE 15 OVER I-80/I-90 RAMP (EXIT 13)
- INTERCHANGE 13 RAMP
- PLEASANT HILL ROAD (CR 16)

THE ROADS LISTED ABOVE SHALL BE CLOSED TO THROUGH TRAFFIC AND DETOURED ACCORDING TO THE PLANS. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVES AND ACCESS ROADS AT ALL TIMES DURING THE PROJECT UNLESS OTHERWISE AUTHORIZED BY THE CHIEF ENGINEER. THE CONTRACTOR IS PROHIBITED FROM CLOSING ADJACENT BRIDGES OVER THE TURNPIKE AT THE SAME TIME. THE CONTRACTOR SHALL CLOSE BOTH S.R. 15 BRIDGES AT THE SAME TIME. THE CONTRACTOR IS PROHIBITED FROM CLOSING THE INTERCHANGE 13 RAMP BRIDGE DURING THE S.R. 15 CLOSURE. THE INTERCHANGE 13 RAMP CLOSURE SHALL BE HELD TO A MINIMUM CLOSURE DURATION; STARTING FRIDAY EVENING AFTER 8 P.M. THRU ONE (1) FULL WEEK, OPENING THE FOLLOWING MONDAY MORNING AT 6 A.M. FOR A TOTAL OF NINE (9) FULL DAYS AND TWO (2) PARTIAL DAYS. DETOURS SHALL NOT BE PLACED INTO EFFECT UNTIL THE CONTRACTOR IS READY TO COMMENCE WORK.

THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE ALL TRAFFIC CONTROL DEVICES AS PER ITEM SP 614 -- MAINTAINING TRAFFIC, AND THE DETOUR PLANS INCLUDING BARRICADES AND SIGNS IN ACCORDANCE WITH OHIO DEPARTMENT OF TRANSPORTATION (ODOT) STANDARD CONSTRUCTION DRAWING MT-101.60 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. DETOUR SIGNS AND SUPPORTS SHALL BE E



SIGN LEGEND

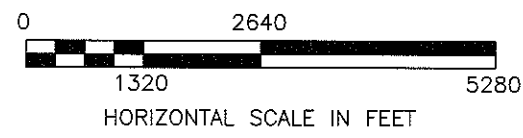


NOTE

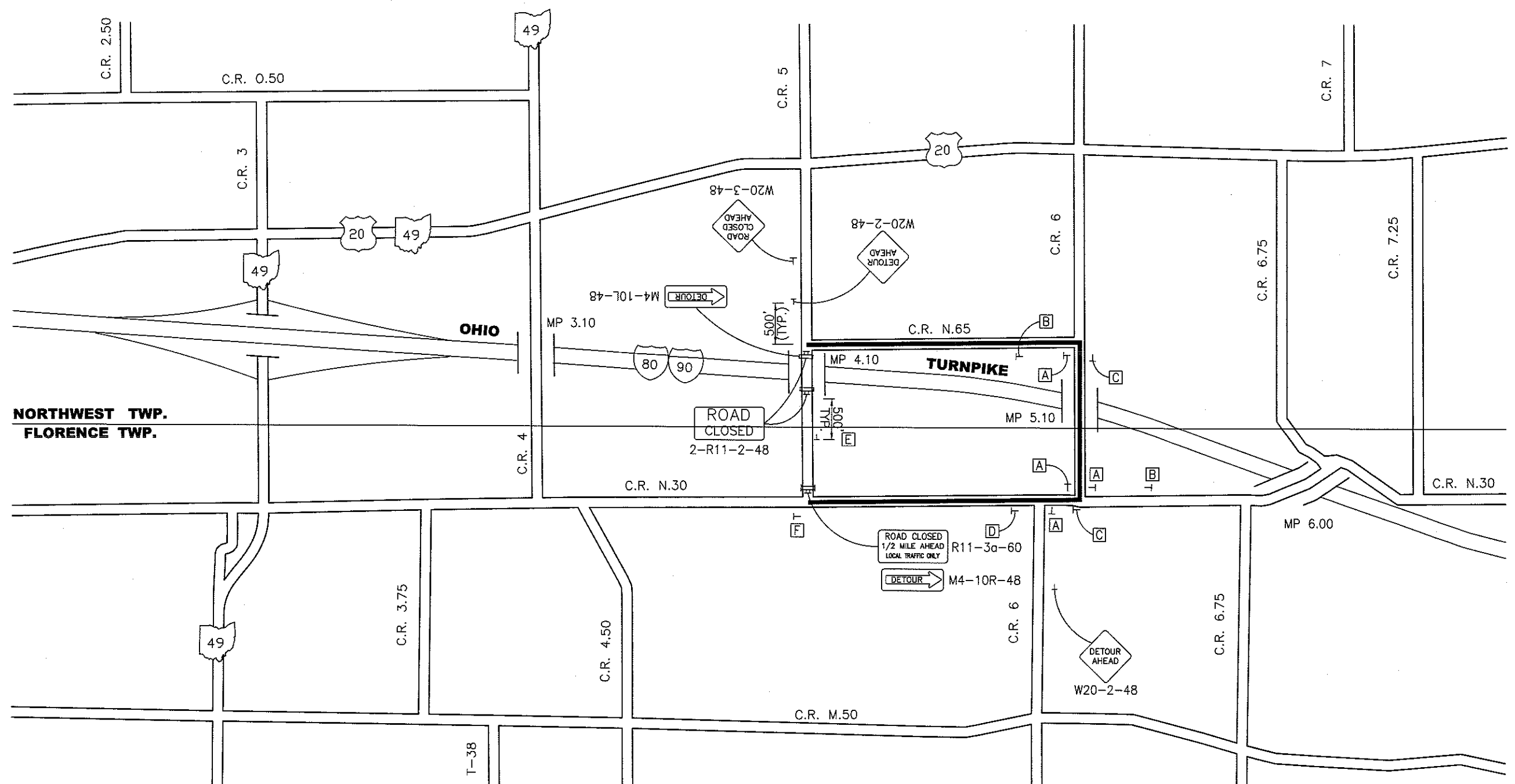
ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" 2012 (OMUTCD).

LEGEND

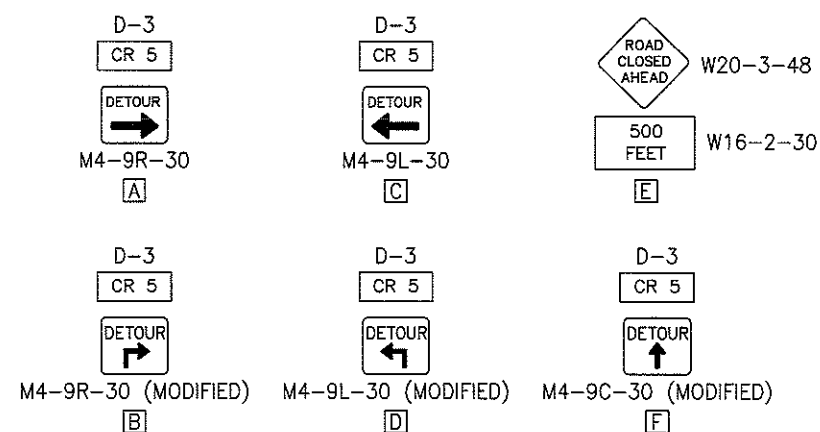
- ⊥ SIGN MOUNTED ON POST SUPPORT (TC-41.20)
- ⊥ SIGN MOUNTED ON PORTABLE TYPE III BARRICADE (OMUTCD 2012, FIGURE 6F-2)
- ⊥ SIGNS MOUNTED ON TYPE III GATES AND BARRICADES (MT 101.60)
- DETOUR ROUTE



2 / 14	
NO.	REVISIONS
BY DATE	
OHIO TURNPIKE COMMISSION	
DETOUR PLAN	
MP 3.10 - MALCOLM CHURCH ROAD (C.R. 4) OVER OHIO TURNPIKE	
DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429	
DESIGNED: NBL	CHECKED: LLA
DRAWN: NBL	IN CHARGE: AEH
DATE: 4/27/12	SCALE: AS SHOWN
CONTRACT 43-12-03 SHEET 4 OF 69	



SIGN LEGEND

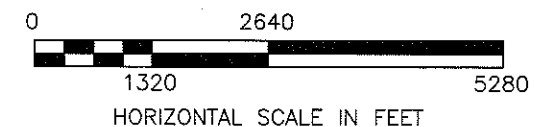


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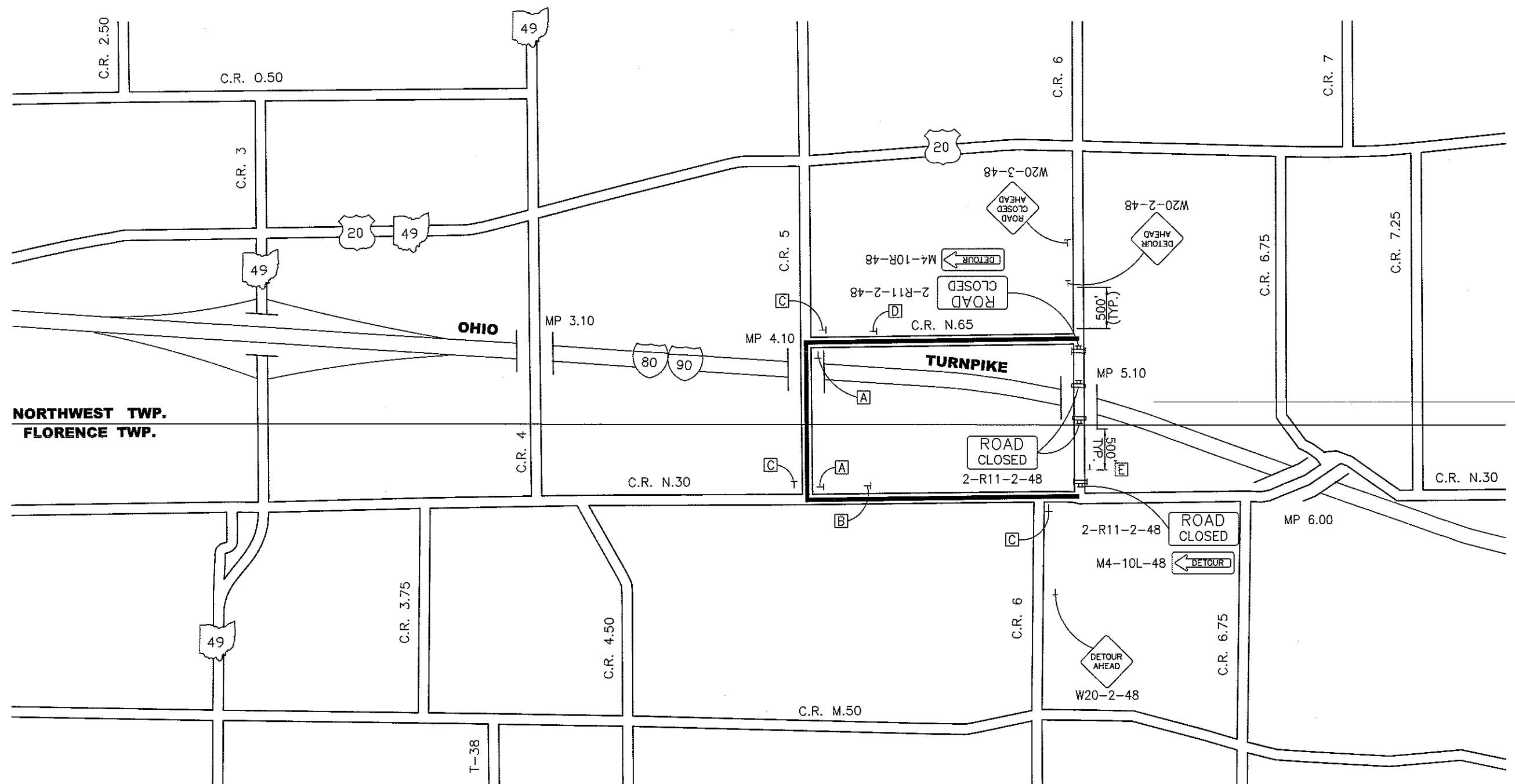
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LEGEND

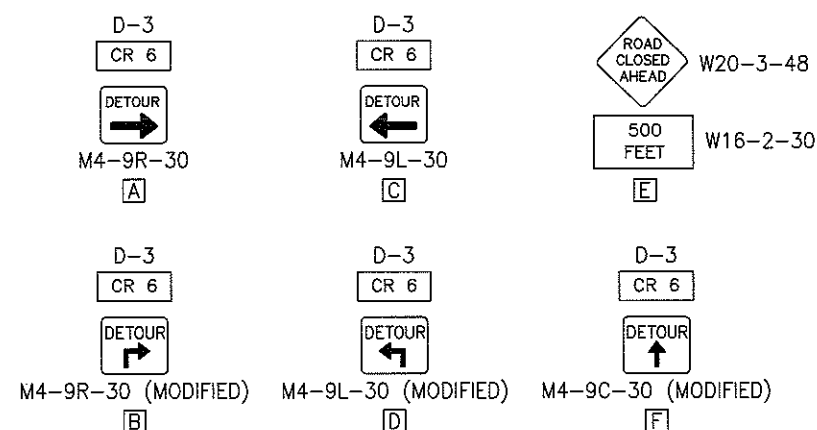
- T SIGN MOUNTED ON POST SUPPORT (TC-41.20)
- H SIGN MOUNTED ON PORTABLE TYPE III BARRICADE (OMUTCD 2012, FIGURE 6F-2)
- H SIGN MOUNTED ON TYPE III GATES AND BARRICADES (MT 101.60)
- DETOUR ROUTE



3 / 14			
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION			
DETOUR PLAN			
MP 4.10 - RICKETTS BRIDGE ROAD (T.R. 5) OVER OHIO TURNPIKE			
DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429			
DESIGNED: NBL	CHECKED: LLA	DATE: 4/27/12	
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 5 OF 69			



SIGN LEGEND

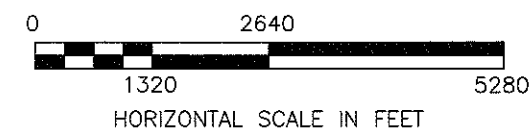


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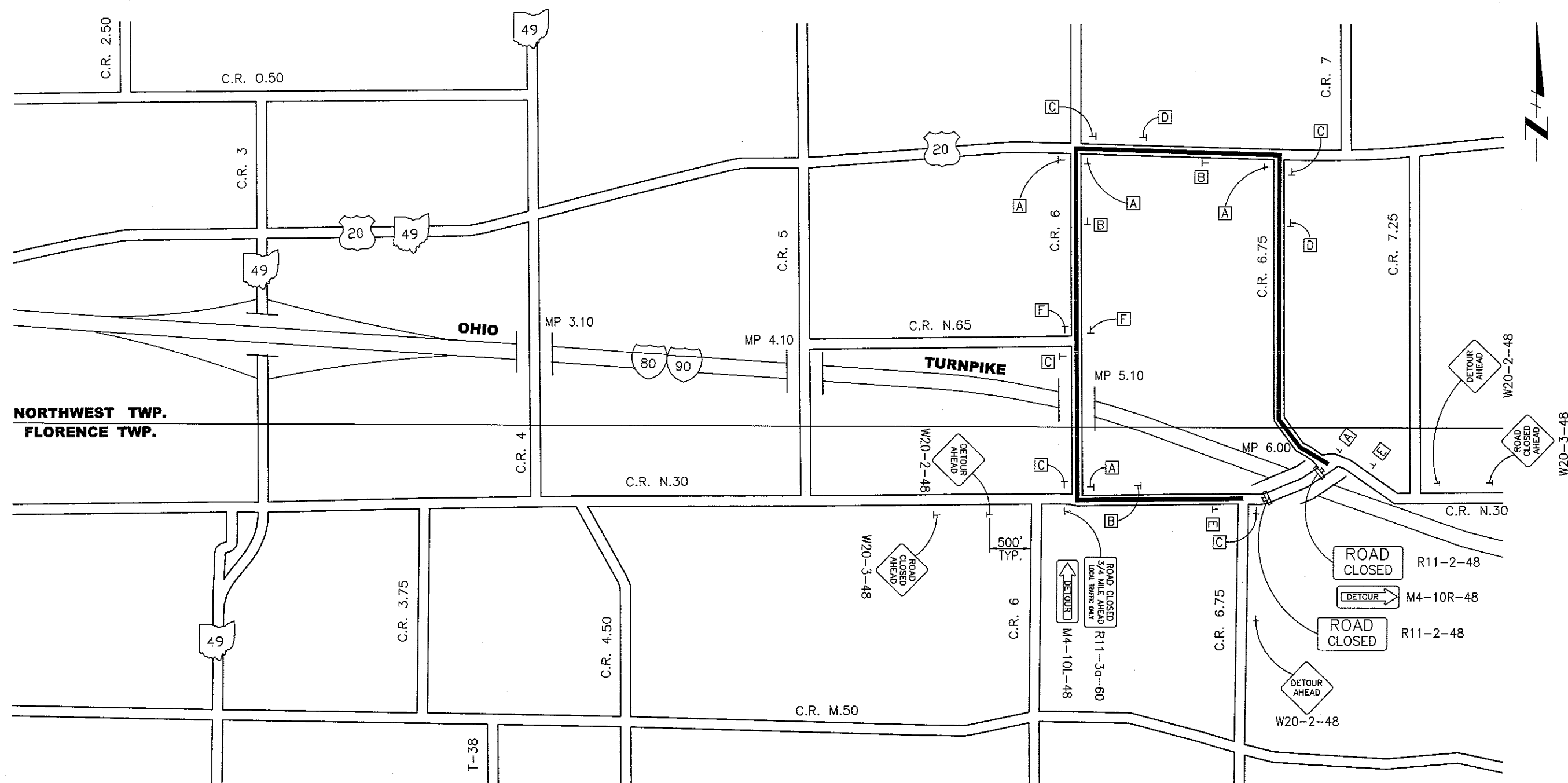
ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" 2012 (OMUTCD).

LEGEND

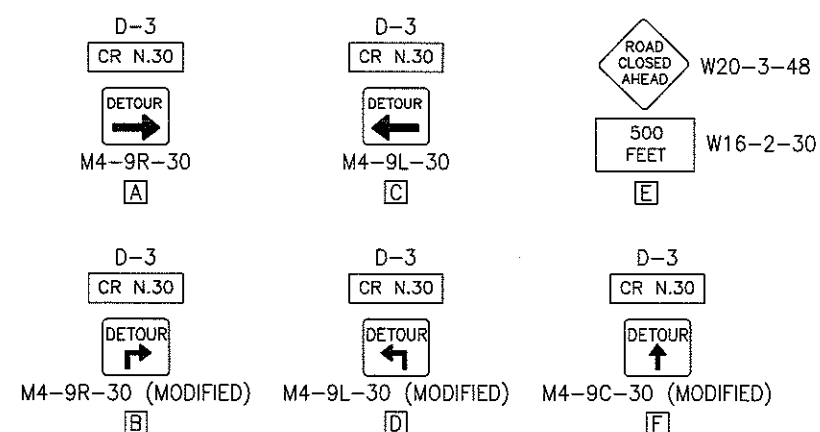
- T SIGN MOUNTED ON POST SUPPORT (TC-41.20)
- H SIGN MOUNTED ON PORTABLE TYPE III BARRICADE (OMUTCD 2012, FIGURE 6F-2)
- SIGNS MOUNTED ON TYPE III GATES AND BARRICADES (MT 101.60)
- DETOUR ROUTE



4 / 14			
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION			
DETOUR PLAN			
MP 5.10 - WEST EAGLE CHURCH ROAD (C.R. 6) OVER OHIO TURNPIKE			
DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429			
DESIGNED: NBL	CHECKED: LLA	DATE: 4/27/12	
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 6 OF 69			



SIGN LEGEND

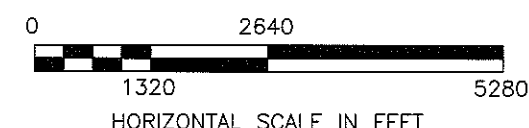


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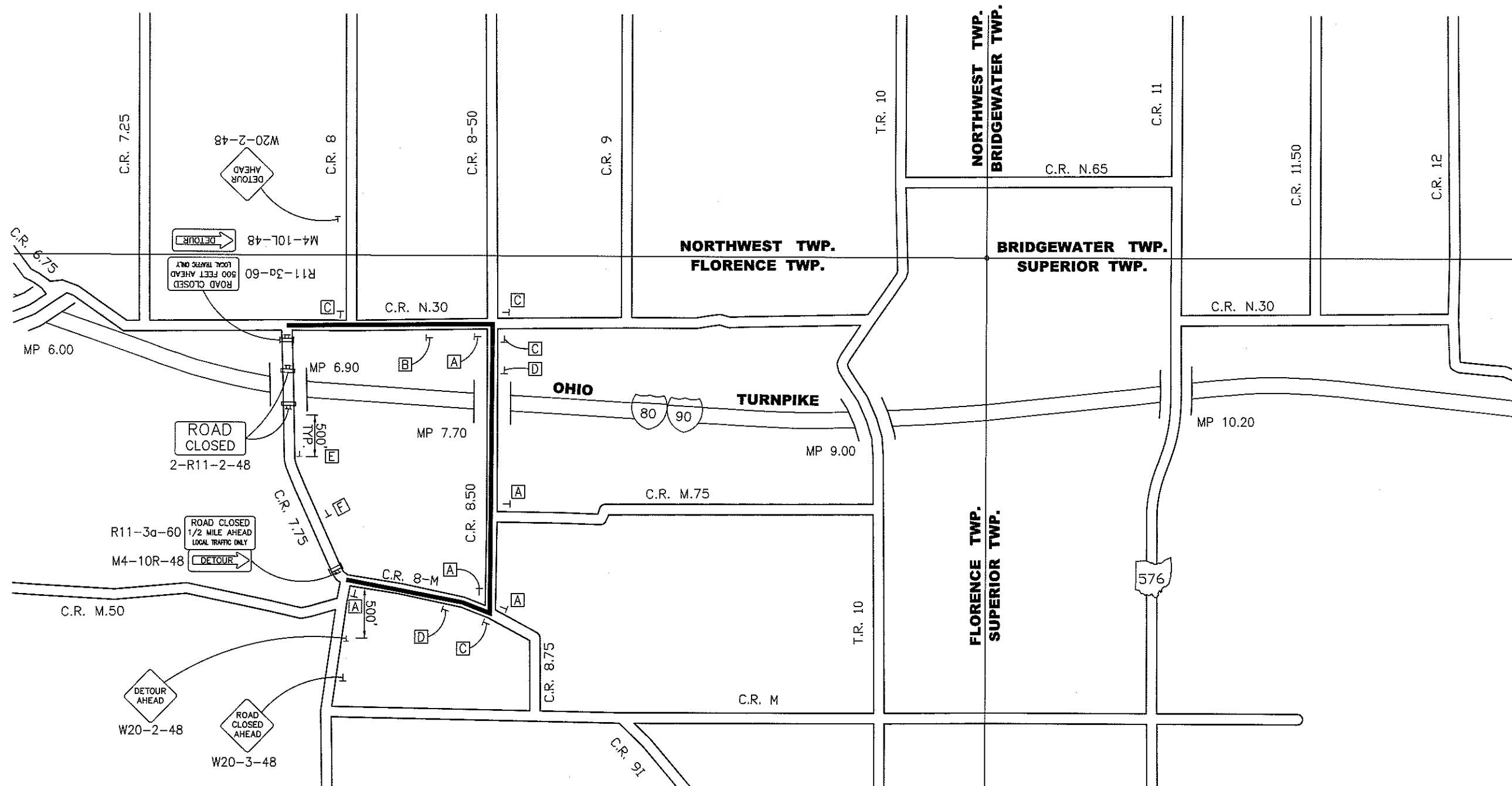
ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" 2012 (OMUTCD).

LEGEND

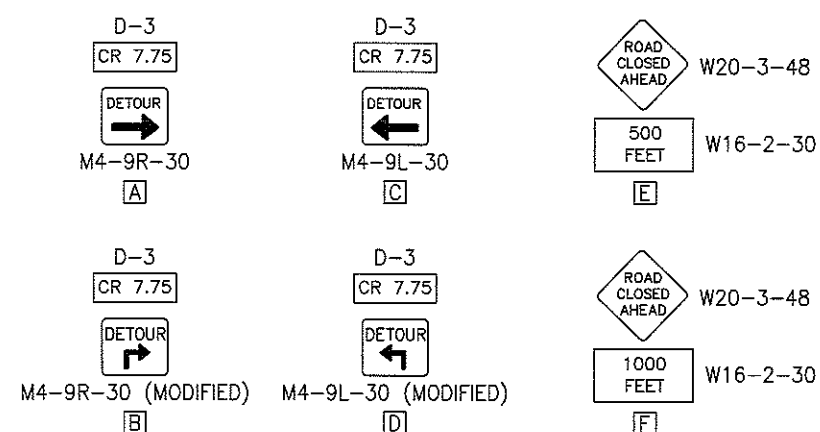
- SIGN MOUNTED ON POST SUPPORT (TC-41.20)
- SIGN MOUNTED ON PORTABLE TYPE III BARRICADE (OMUTCD 2012, FIGURE 6F-2)
- SIGNS MOUNTED ON TYPE III GATES AND BARRICADES (MT 101.60)
- DETOUR ROUTE



5 / 14	
NO.	REVISIONS
BY	DATE
OHIO TURNPIKE COMMISSION	
DETOUR PLAN	
MP 6.00 - NETTLE CREEK ROAD (C.R. N.30) OVER OHIO TURNPIKE	
DGL CONSULTING ENGINEERS, LLC	
3455 Briarfield Blvd. Suite E	
Maumee, OH 43537	
Ph 419.535.1015 • Fax 419.535.1429	
DESIGNED: NBL	CHECKED: LLA
DRAWN: NBL	IN CHARGE: AEH
DATE: 4/27/12	SCALE: AS SHOWN
CONTRACT 43-12-03 SHEET 7 OF 69	



SIGN LEGEND

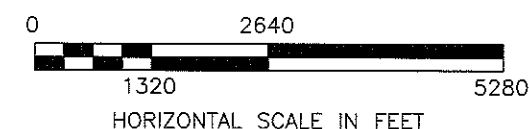


NOTE

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" 2012 (OMUTCD).

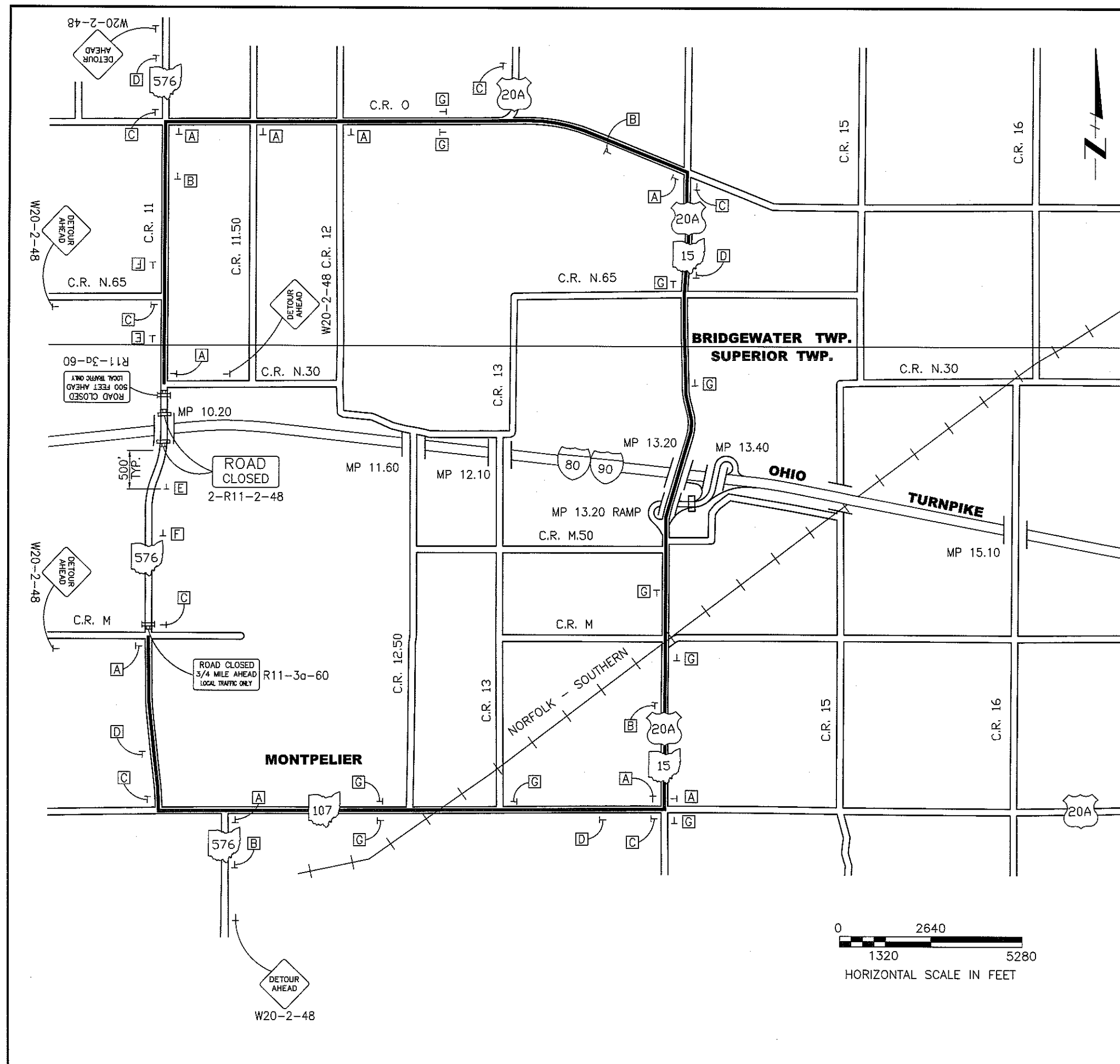
LEGEND

- T SIGN MOUNTED ON POST SUPPORT (TC-41.20)
- HI SIGN MOUNTED ON PORTABLE TYPE III BARRICADE (OMUTCD 2012, FIGURE 6F-2)
- HI SIGN MOUNTED ON TYPE III GATES AND BARRICADES (MT 101.60)
- DETOUR ROUTE



6 / 14

NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION			
DETOUR PLAN			
MP 6.90 - WHITE BRIDGE ROAD (C.R. 7.75) OVER OHIO TURNPIKE			
DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429			
DESIGNED: NBL	CHECKED: LLA	DATE: 4/27/12	
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 8 OF 69			



SIGN LEGEND

D-3 SR 576 DETOUR M4-9R-30 A	D-3 SR 576 DETOUR M4-9L-30 C	ROAD CLOSED AHEAD 500 FEET W20-3-48 E
D-3 SR 576 DETOUR M4-9R-30 (MODIFIED) B	D-3 SR 576 DETOUR M4-9L-30 (MODIFIED) D	ROAD CLOSED AHEAD 1000 FEET W20-3-48 F
D-3 SR 576 DETOUR M4-9C-30 (MODIFIED) G		

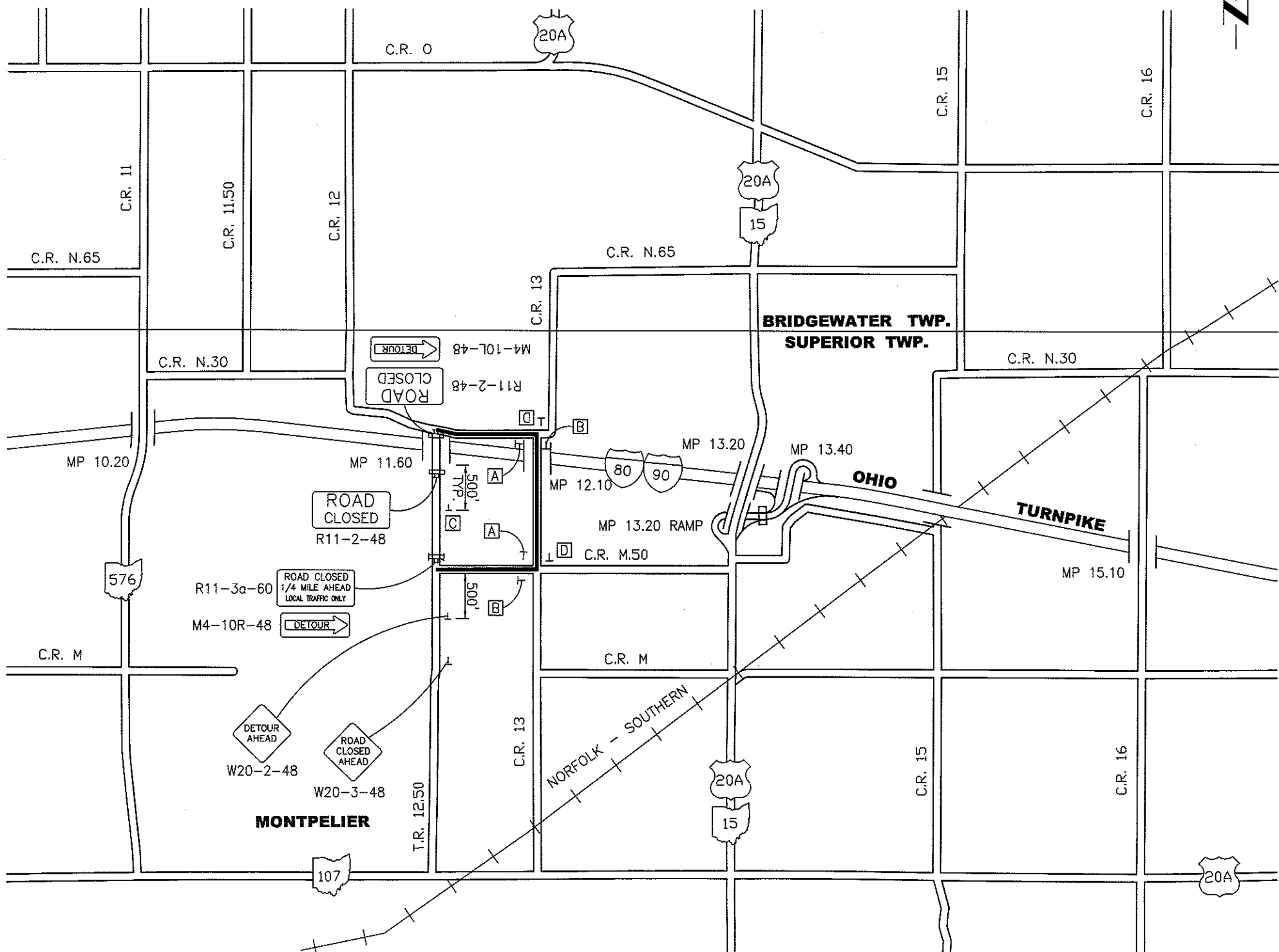
NOTE

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" 2012 (OMUTCD).

LEGEND

- † SIGN MOUNTED ON POST SUPPORT (TC-41.20)
- ⌊ SIGN MOUNTED ON PORTABLE TYPE III BARRICADE (OMUTCD 2012, FIGURE 6F-2)
- ⌊ SIGN MOUNTED ON TYPE III GATES AND BARRICADES (MT 101.60)
- DETOUR ROUTE

9 / 14			
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION			
DETOUR PLAN			
MP 10.20 - STATE ROUTE 576			
OVER OHIO TURNPIKE			
DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429			
DESIGNED: NBL	CHECKED: LLA	DATE: 4/27/12	
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 11 OF 69			



SIGN LEGEND

D-3
TR 12.5
DETOUR
M4-9R-30
A

D-3
TR 12.5
DETOUR
M4-9L-30
B

ROAD CLOSED AHEAD
500 FEET
W20-3-48
W16-2-30
C

D-3
TR 12.5
DETOUR
M4-9C-30 (MODIFIED)
D

NOTE

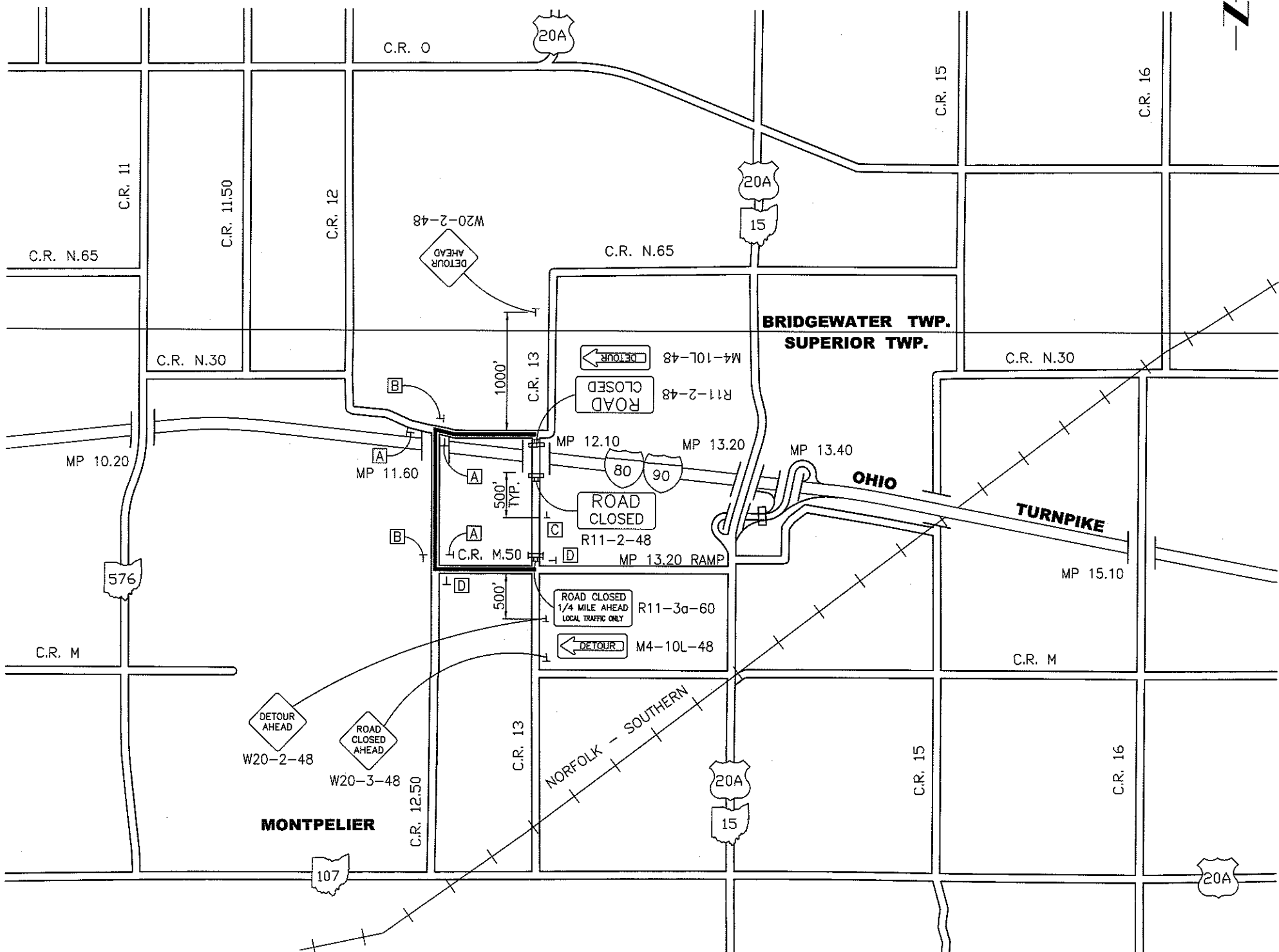
ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" 2012 (OMUTCD).

LEGEND

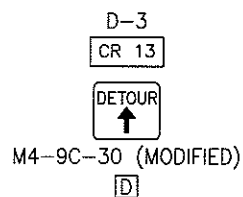
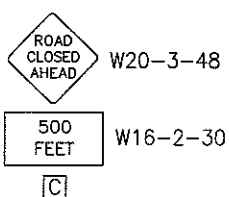
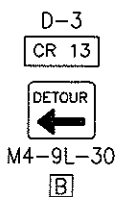
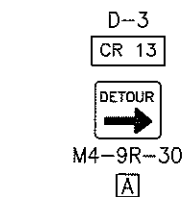
- T SIGN MOUNTED ON POST SUPPORT (TC-41.20)
- H SIGN MOUNTED ON PORTABLE TYPE III BARRICADE (OMUTCD 2012, FIGURE 6F-2)
- U SIGNS MOUNTED ON TYPE III GATES AND BARRICADES (MT 101.60)
- DETOUR ROUTE

10 / 14

NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION			
DETOUR PLAN			
MP 11.60 - CUMMINS ROAD			
(T.R. 12.5) OVER OHIO TURNPIKE			
DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429			
DESIGNED: NBL	CHECKED: LLA	DATE: 4/27/12	
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 12 OF 69			



SIGN LEGEND

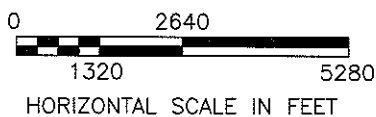


NOTE

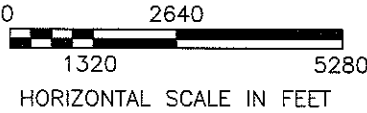
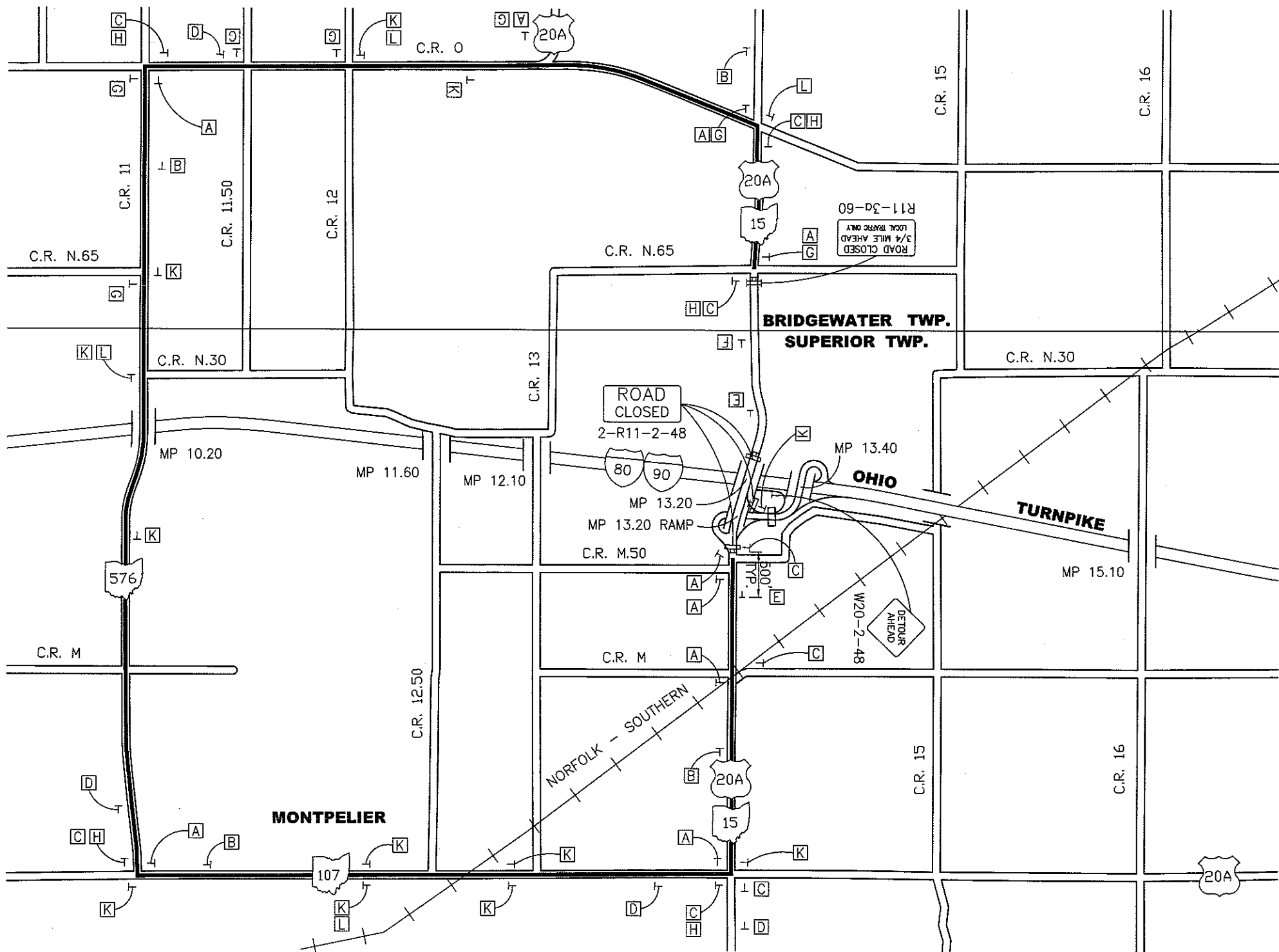
ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" 2012 (OMUTCD).

LEGEND

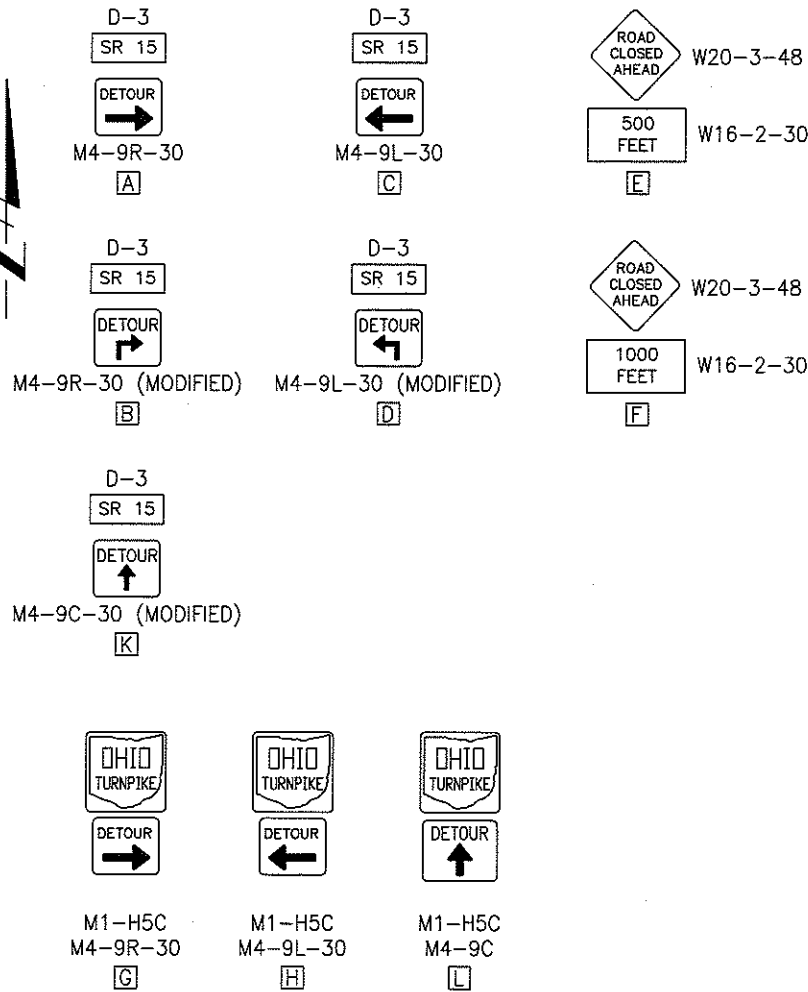
- † SIGN MOUNTED ON POST SUPPORT (TC-41.20)
- ⌈ SIGN MOUNTED ON PORTABLE TYPE III BARRICADE (OMUTCD 2012, FIGURE 6F-2)
- ⌈ SIGN MOUNTED ON TYPE III GATES AND BARRICADES (MT 101.60)
- DETOUR ROUTE



11 / 14			
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION			
DETOUR PLAN			
MP 12.10 - TOWNSHIP LINE ROAD (C.R. 13) OVER OHIO TURNPIKE			
DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429			
DESIGNED: NBL	CHECKED: LLA	DATE: 4/27/12	
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 13 OF 69			



SIGN LEGEND



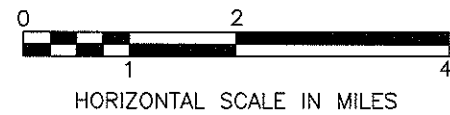
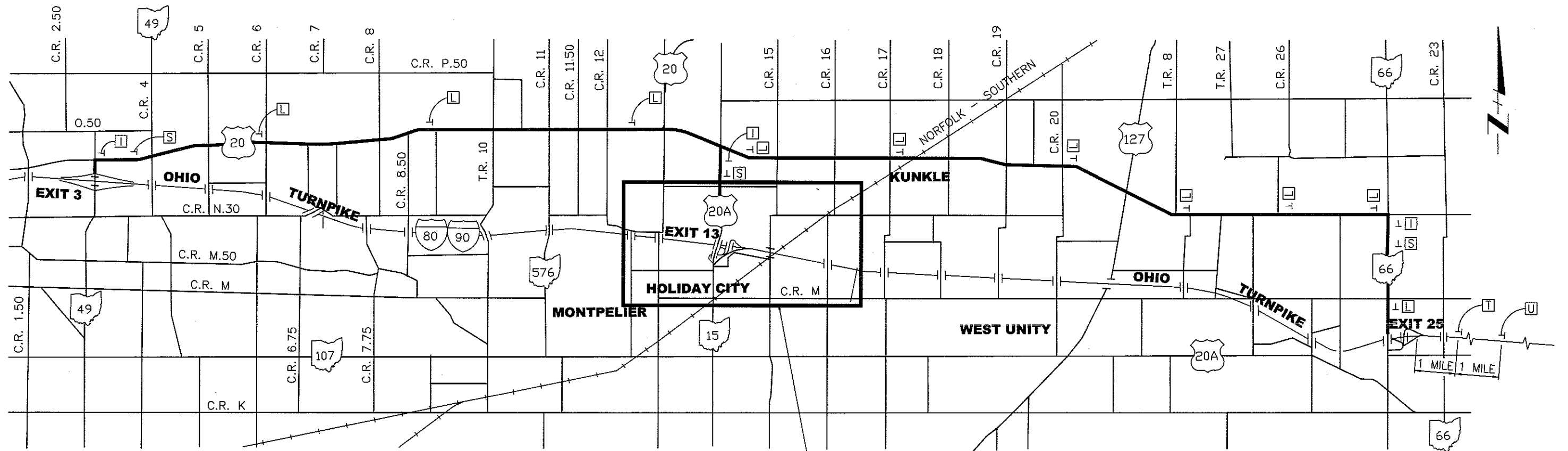
NOTE

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" 2012 (OMUTCD).

LEGEND

- T SIGN MOUNTED ON POST SUPPORT (TC-41.20)
- H SIGN MOUNTED ON PORTABLE TYPE III BARRICADE (OMUTCD 2012, FIGURE 6F-2)
- H SIGNS MOUNTED ON TYPE III GATES AND BARRICADES (MT 101.60)
- DETOUR ROUTE

12 / 14			
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION			
DETOUR PLAN			
MP 13.20 - STATE ROUTE 15 OVER RAMP AND OVER OHIO TURNPIKE			
DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429			
DESIGNED: NBL	CHECKED: LLA	DATE: 4/27/12	
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 14 OF 69			



NOTE

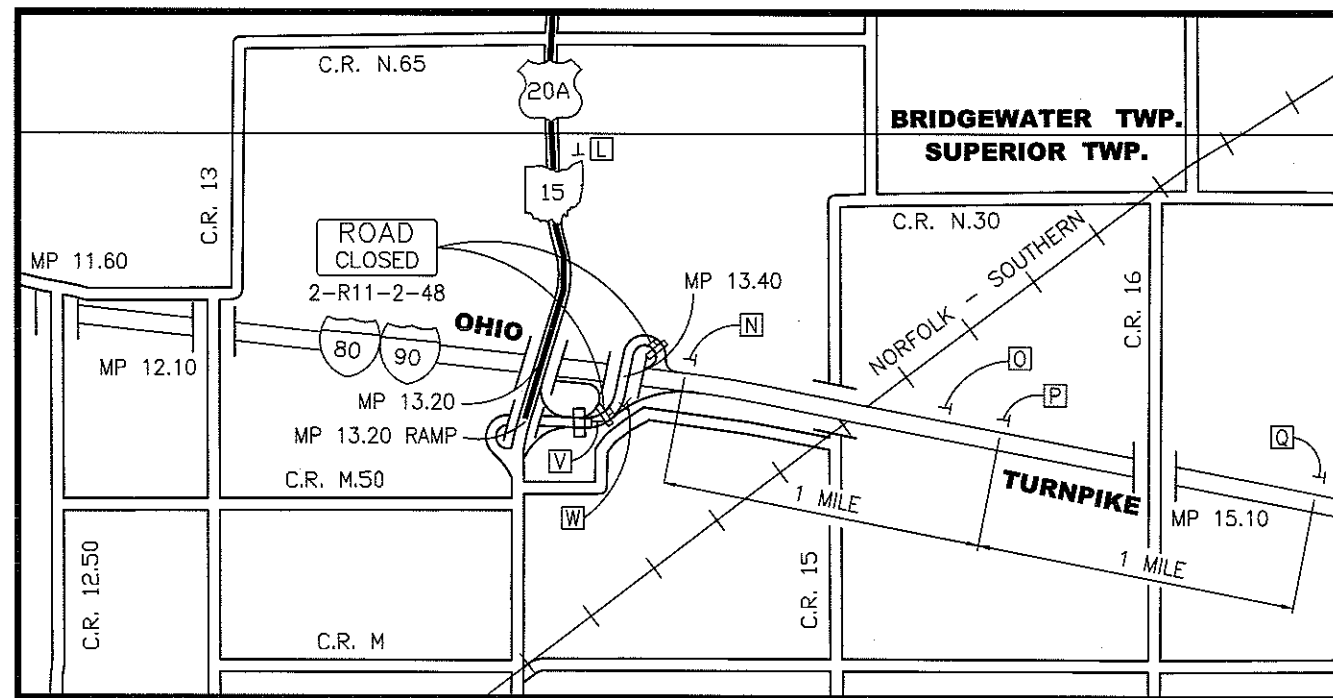
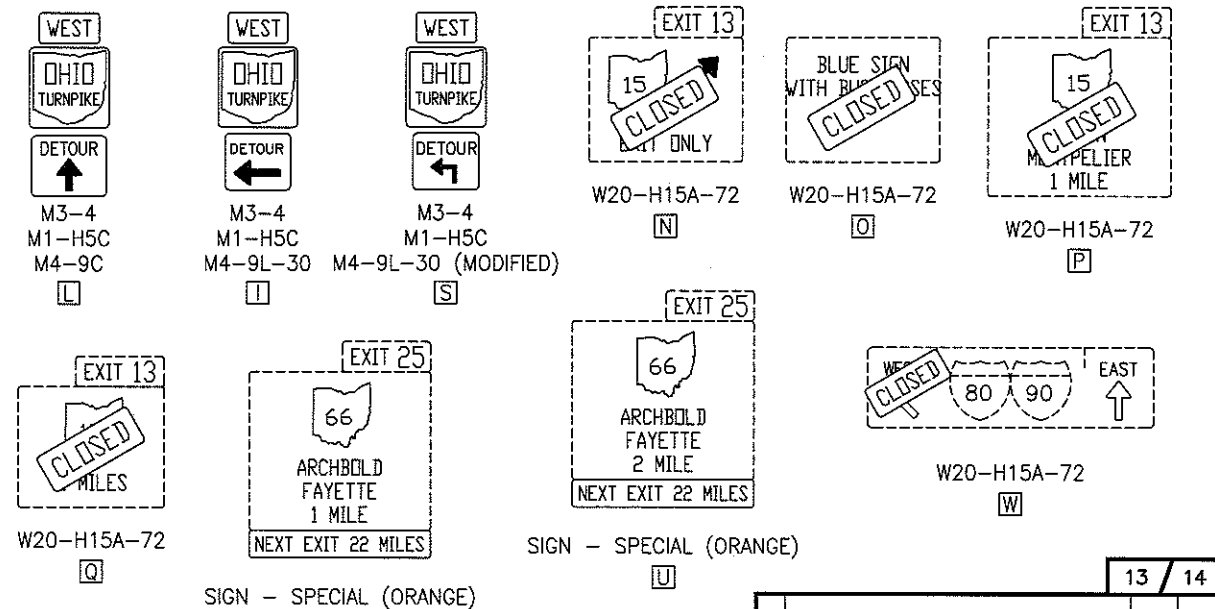
ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" 2012 (OMUTCD).

LEGEND

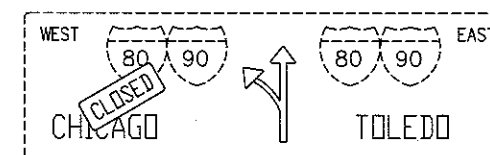
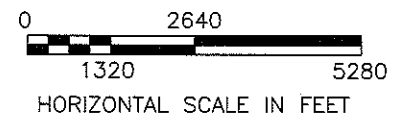
- T SIGN MOUNTED ON POST SUPPORT (TC-41.20)
- DETOUR ROUTE

DETAIL A, THIS SHEET

SIGN LEGEND

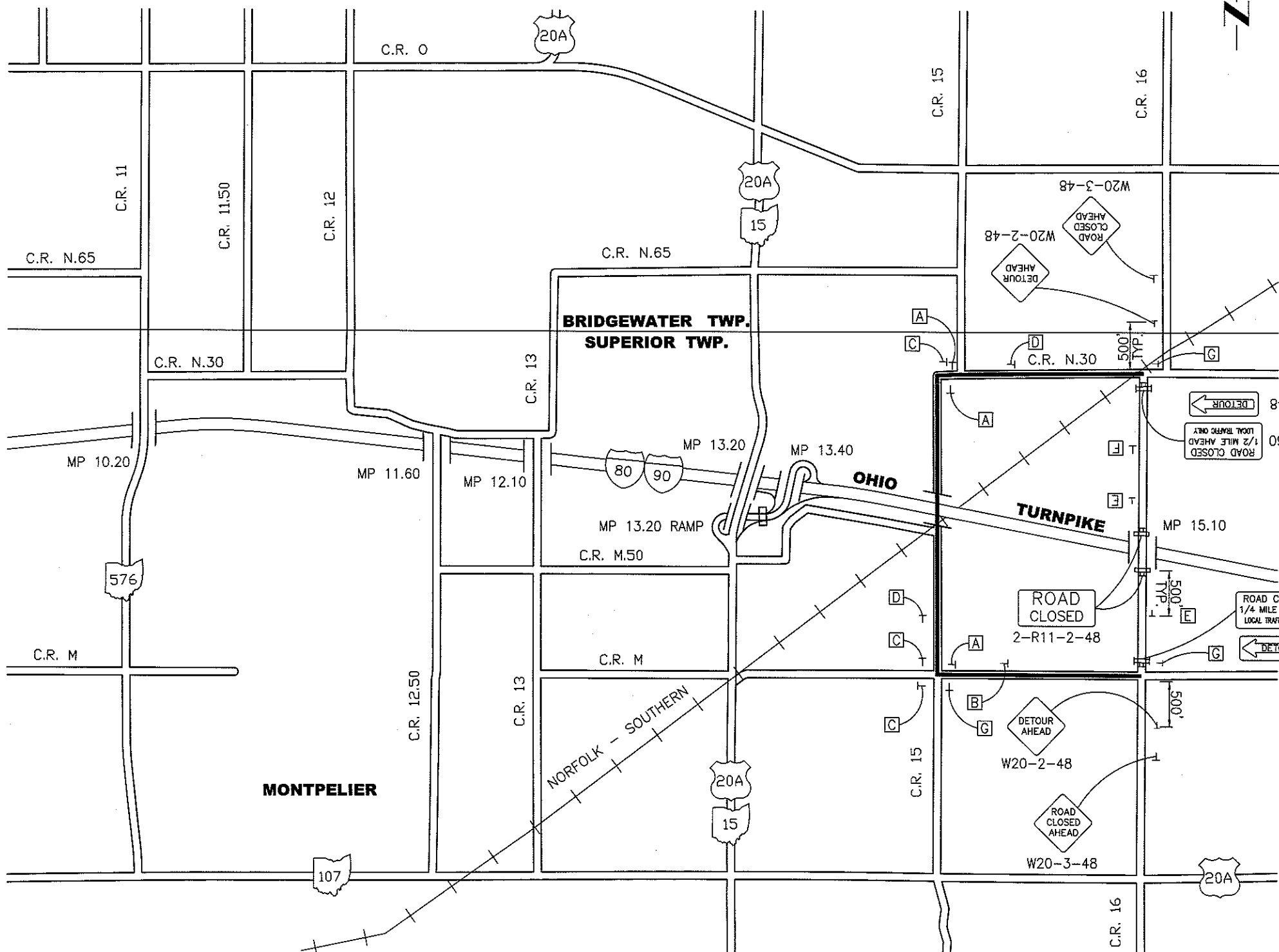


DETAIL A

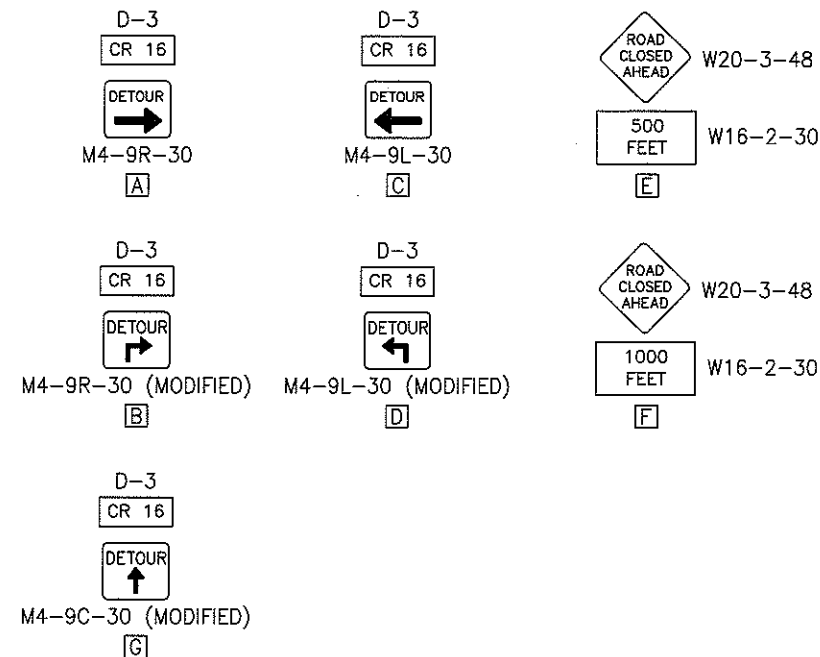


W20-H15A-72

13 / 14	
NO.	REVISIONS
BY DATE	
OHIO TURNPIKE COMMISSION	
DETOUR PLAN 13.40 (EXIT 13 RAMP) OVER OHIO TURNPIKE	
DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429	
DESIGNED: NBL	CHECKED: LLA
DRAWN: NBL	IN CHARGE: AEH
DATE: 4/27/12	
SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 15 OF 69	



SIGN LEGEND

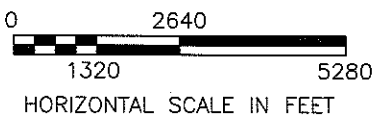


NOTE

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" 2012 (OMUTCD).

LEGEND

- † SIGN MOUNTED ON POST SUPPORT (TC-41.20)
- ⌈ SIGN MOUNTED ON PORTABLE TYPE III BARRICADE (OMUTCD 2012, FIGURE 6F-2)
- ⌈ SIGN MOUNTED ON TYPE III GATES AND BARRICADES (MT 101.60)
- DETOUR ROUTE



14 / 14			
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION			
DETOUR PLAN			
MP 15.10 - PLEASANT HILL ROAD			
OVER OHIO TURNPIKE			
DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429			
DESIGNED: NBL	CHECKED: LLA	DATE: 4/27/12	
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 16 OF 69			

STRUCTURE – GENERAL NOTES

23. ITEM SP 533E – CONTINUOUS ELASTOMER SEAL IN ELASTOMERIC CONCRETE JOINT:

REMOVE AND REPLACE THE EXISTING EXPANSION JOINTS AT THE PIERS AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ITEM SP 533E AND DETAILS SHOWN ON SHEET 65 OF 69.

24. ITEM SP 533F – REPLACEMENT OF COMPRESSION SEAL WITH CONTINUOUS ELASTOMERIC SEAL:

REMOVE AND REPLACE THE COMPRESSION SEAL AT THE ABUTMENTS AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ITEM SP 533F AND DETAILS SHOWN ON SHEET 65 OF 69.

25. ITEM SP 533H – CONTINUOUS ELASTOMER SEAL IN STRUCTURAL STEEL JOINT:

REMOVE AND REPLACE THE EXISTING JOINTS AT THE ABUTMENTS AND PIERS AS SHOWN ON THE PLANS. THIS WORK SHALL BE IN ACCORDANCE WITH ITEM SP 533H AND DETAILS SHOWN ON SHEET 65 OF 69.

26. ITEM SP 614 – MAINTAINING TRAFFIC:

ALL TRAFFIC ON LOCAL ROADS AND STATE ROUTES SHALL BE MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AGENCY. APPROVAL SHALL BE OBTAINED FROM THE LOCAL GOVERNING AGENCY PRIOR TO THE COMMENCEMENT OF ANY WORK ON OR OVER THE LOCAL ROAD OR THE IMPLEMENTATION OF ANY MAINTENANCE OF TRAFFIC ZONE.

THIS ITEM SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS TO PERFORM THIS WORK WITH THESE REQUIREMENTS AND SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM SP 614--MAINTAINING TRAFFIC ON SHEET 2 OF 69.

27. ITEM 642 – EDGE LINE AND CENTER LINE:

THE FOLLOWING PAVEMENT MARKING QUANTITIES ARE INCLUDED FOR STATE ROUTE 15 OVER OTC (M.P. 13.20):

EDGE LINE FROM STA. 23+78.12 TO STA. 26+29.38 LT. = 251.26 FT.
EDGE LINE FROM STA. 23+86.07 TO STA. 26+37.33 RT. = 251.26 FT.
CENTER LINE FROM STA. 23+80.98 TO STA. 26+32.24 = 251.26 FT.

TOTAL EDGE LINE = 502.52 FT. = 0.10 MILE
TOTAL CENTER LINE = 251.26 FT. = 0.05 MILE

28. ITEM 642 – EDGE LINE, AS PER PLAN:

THE FOLLOWING PAVEMENT MARKING QUANTITIES ARE INCLUDED FOR INTERCHANGE 13 RAMP OVER OTC (M.P. 13.40):

EDGE LINE (WHITE) FROM STA. 723+07.78 TO STA. 725+74.12 LT. = 266.34 FT.
EDGE LINE (YELLOW) FROM STA. 723+07.78 TO STA. 725+74.12 RT. = 266.34 FT.
EDGE LINE (WHITE) FROM STA. 723+07.78 TO STA. 725+74.12 LT. = 266.34 FT.
EDGE LINE (YELLOW) FROM STA. 723+07.78 TO STA. 725+74.12 RT. = 266.34 FT.

TOTAL EDGE LINE = 1065.36 = 0.20 MILE

FOLLOW ODOT CMS 642, WITH THE EXCEPTION THAT THE EDGE LINES ARE 6" WIDE.

29. ITEM SP 607A – REMOVE AND REUSE EXISTING FENCE:

WHERE INDICATED IN THE PLANS, THE EXISTING FENCE IS TO BE MODIFIED TO INSURE THAT THE FENCE FABRIC AND RAILS ARE NOT CONTINUOUS ACROSS THE BRIDGE EXPANSION JOINT. IN ADDITION, WHERE INDICATED, THE FENCE FABRIC AND RAILS ARE TO BE REMOVED AT THE LOCATIONS OF THE PATCHING WORK ON THE ADJACENT BRIDGE PARAPET AND THEN RE-ERECTED AFTER COMPLETION OF THE PARAPET REPAIRS. THE FENCE POSTS AT LOCATIONS OF PARAPET REPAIRS ARE TO BE REMOVED AND THEN RE-ERECTED AFTER COMPLETION OF THE PARAPET REPAIRS. IN ACCORDANCE WITH SP 607A, NEW ANCHOR BOLTS ARE TO BE PROVIDED. THE REVISIONS ARE TO BE IN ACCORDANCE WITH SP 607A AND FOLLOW THE INTENT OF THE DETAILS ON OHIO TURNPIKE COMMISSION STANDARD DRAWING CL-1 OR CL-2.

30. ABBREVIATIONS:

ABUT.	ABUTMENT
ADT	AVERAGE DAILY TRAFFIC
BRG.	BEARING
CL	CENTER LINE
CT	CENTER TO CENTER
CU. YD.	CUBIC YARD
D.L.	DEAD LOAD
Ø	DIAMETER
EL.	ELEVATION
EXP.	EXPANSION
F	FAHRENHEIT
FT.	FEET
FWD.	FORWARD
FWS	FUTURE WEARING SURFACE
HMWM	HIGH MOLECULAR WEIGHT METHACRYLATE
LT.	LEFT
LN. FT.	LINEAR FEET
L.L.	LIVE LOAD
MAX.	MAXIMUM
M.P.	MILEPOST
MIN.	MINIMUM
REQ'D.	REQUIRED
RT.	RIGHT
SPA.	SPACING
SQ. FT.	SQUARE FEET
SQ. YD.	SQUARE YARD
STD. DWG.	STANDARD DRAWING
STA.	STATION
TYP.	TYPICAL

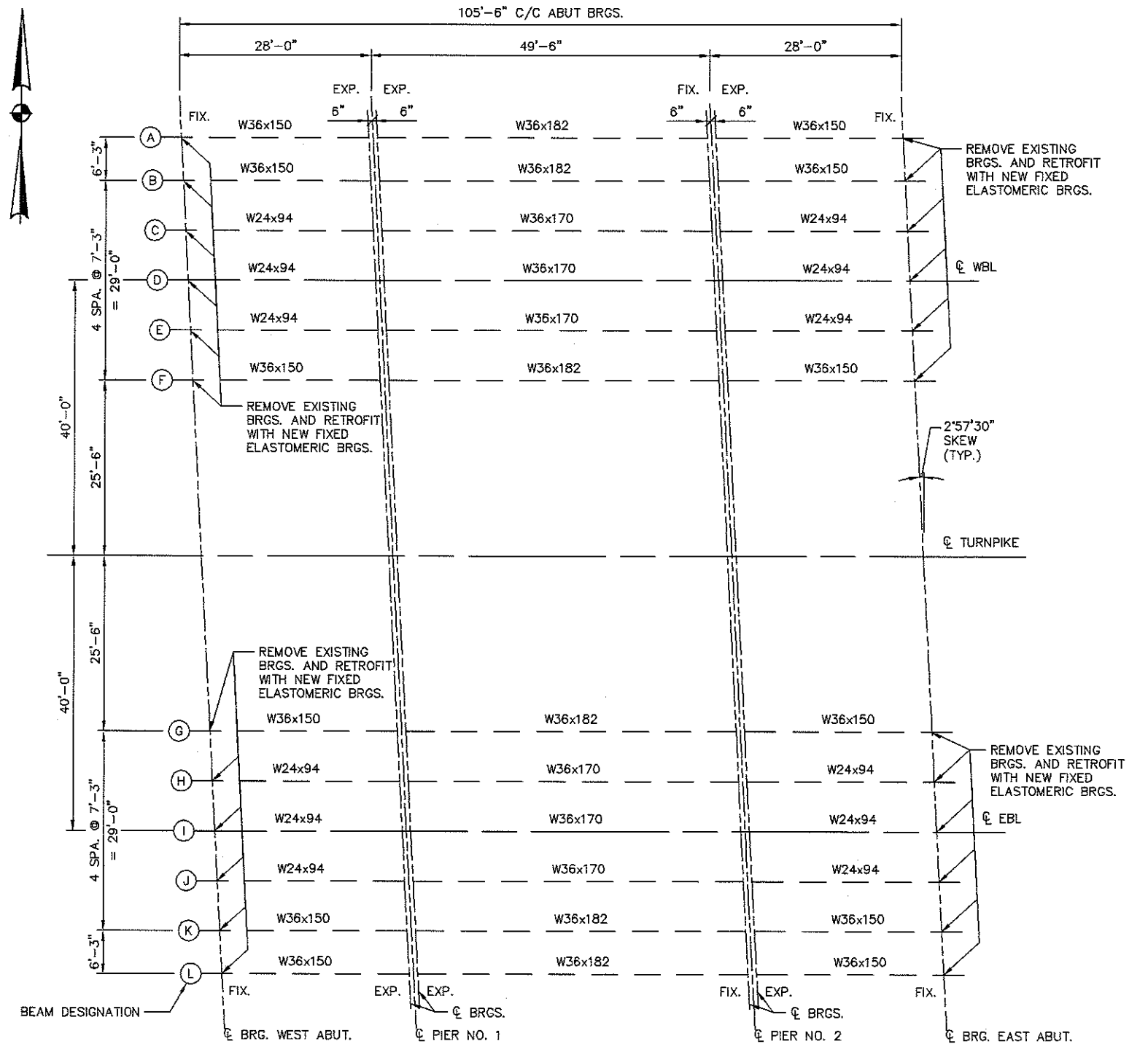
NO.		REVISIONS		BY	DATE
OHIO TURNPIKE COMMISSION					
GENERAL NOTES (2 OF 2)					
STRUCTURES FROM MP 3.10 THRU 19.60					
		DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429			
DESIGNED: NBL	CHECKED: AEH	DATE: 1/16/13			
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN			
CONTRACT 43-12-03 SHEET 18 OF 69					

GENERAL NOTES

ITEM SP 202 - PORTIONS OF STRUCTURE REMOVED

WORK UNDER THIS ITEM INCLUDES REMOVING EXISTING BEARINGS, WELDS, BEARING PADS, AND ANCHOR BOLTS.

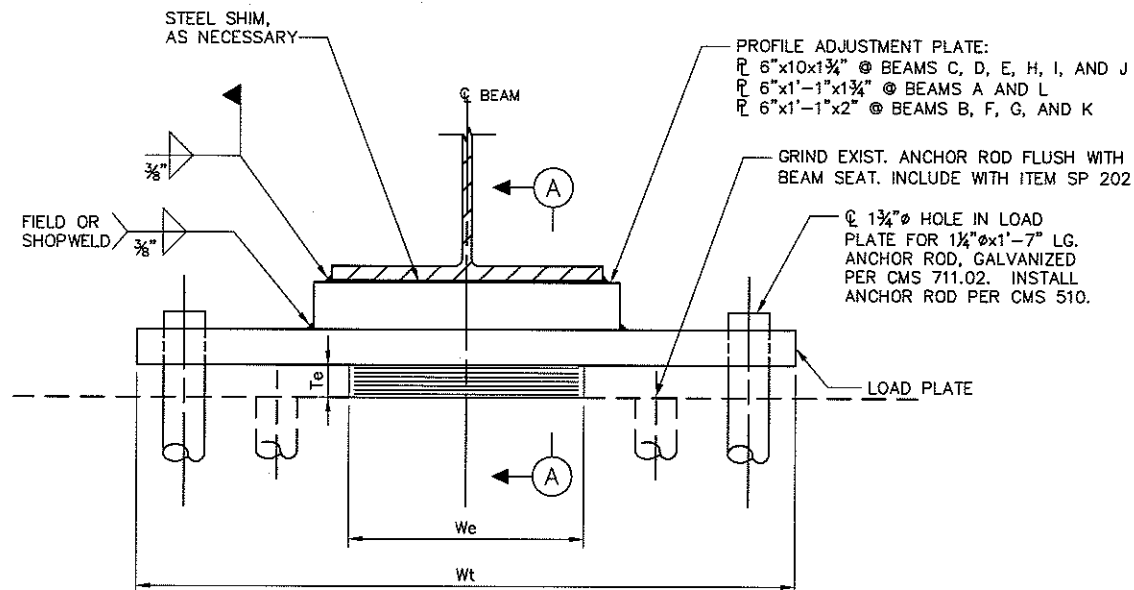
ESTIMATED QUANTITIES			
ITEM	TOTAL	UNIT	DESCRIPTION
SP 202	LUMP	LUMP	PORTIONS OF STRUCTURE REMOVED
510	48	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT
SP 516J	24	EACH	REPLACE FIXED BEARING DEVICE



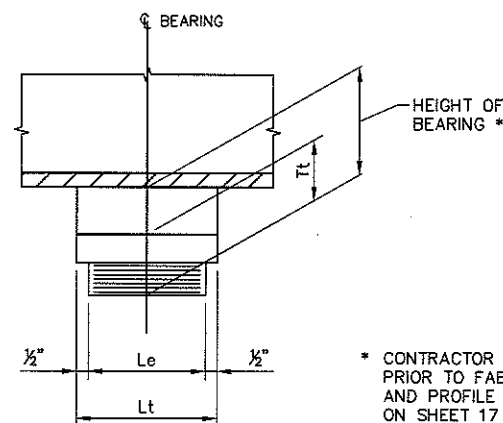
FRAMING PLAN

NOTE:
FOR NEW BEARING DETAILS,
SEE SHEET NO. 18B OF 69.

NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION			
OHIO TURNPIKE OVER ABANDONED RAILROAD (M.P. 19.6) BEARING DETAILS			
URS Akron Cleveland Columbus 564 White Pond Drive, Akron, Ohio 44320-1100 PHONE: (330) 836-9111, FAX: 330-836-9115			
DESIGNED: MRW	CHECKED: PJW	DATE: 11-20-12	
DRAWN: CMA	IN CHARGE: TES	SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 18A OF 69			

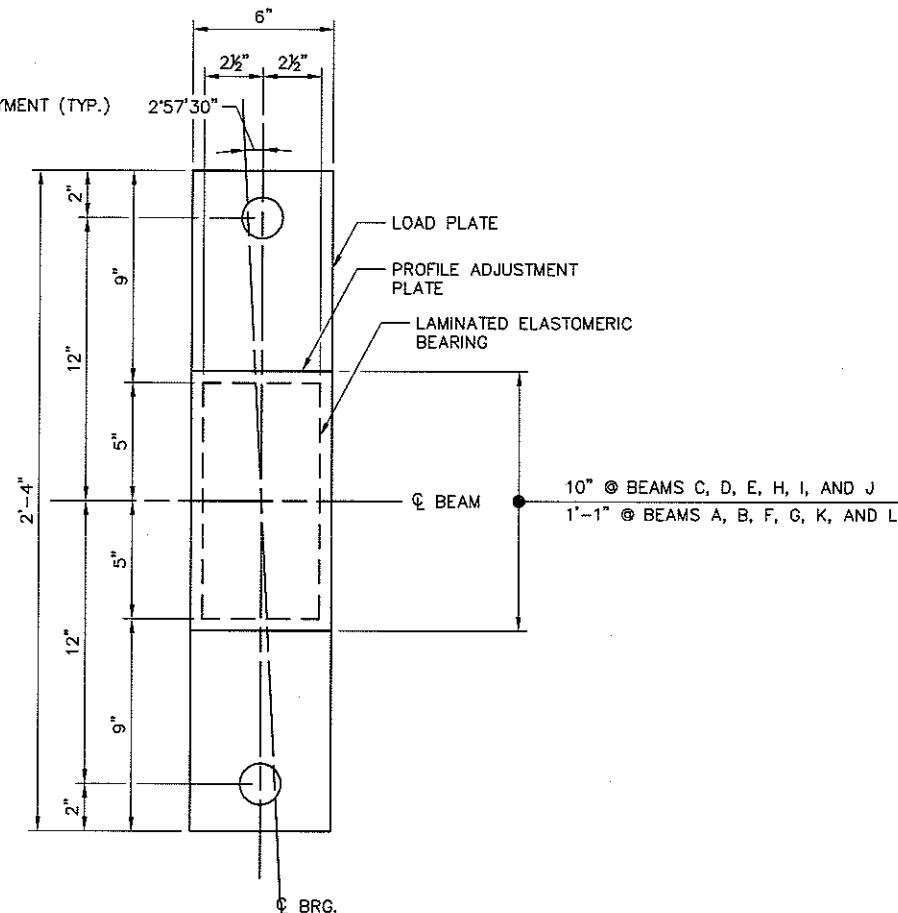


LAMINATED ELASTOMERIC
FIXED BEARINGS ABUTMENTS



SECTION A-A

* CONTRACTOR SHALL VERIFY EXISTING BEARING HEIGHT PRIOR TO FABRICATION OF NEW BEARINGS. LOAD PLATES AND PROFILE ADJUSTMENT PLATES. SEE GENERAL NOTES ON SHEET 17 OF 64 FOR EXISTING STRUCTURE VERIFICATION NOTE. STEEL SHIM PLATES FULL WIDTH OF BEAM FLANGE AND FULL LENGTH OF PROFILE ADJUSTMENT PLATE, AS REQUIRED SHALL BE USED TO PROVIDE THE REQUIRED STRUCTURE DEPTH AND PROPERLY ALIGN THE DECK JOINTS. INCLUDE STEEL SHIMS WITH ITEM SP516J, REPLACE FIXED BEARING DEVICE FOR PAYMENT. INCLUDE SHIM PACKS WITH BEARINGS DELIVERED TO THE SITE FOR FINAL FIELD ADJUSTMENT.



BEARING F-50

NOTES:

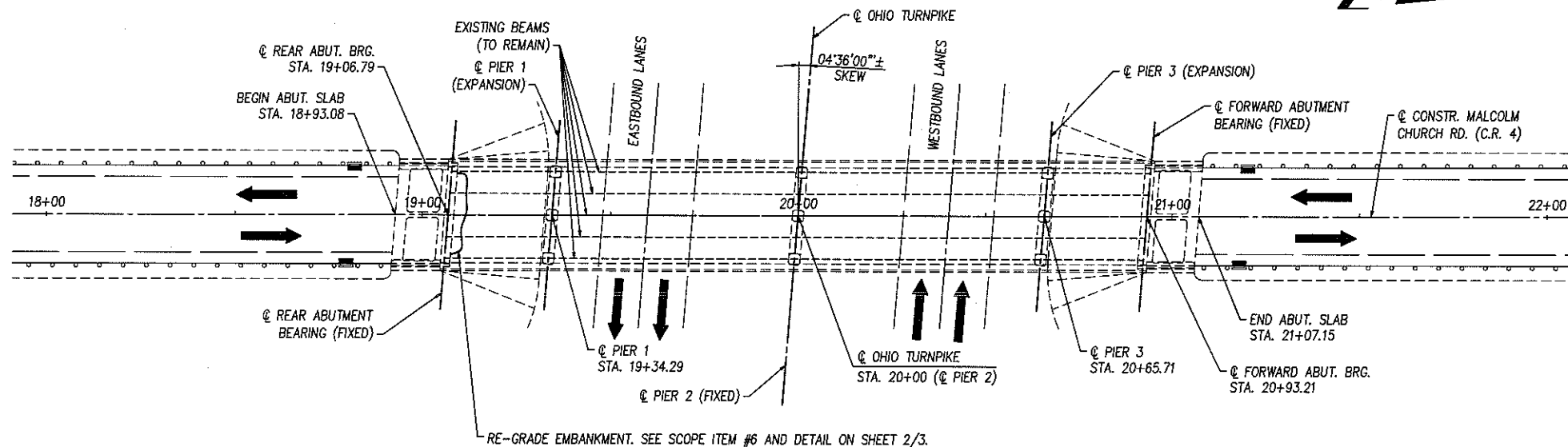
- ELASTOMERIC BEARINGS:
THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS ARE DESIGNED IN ACCORDANCE WITH SECTION 14.7.6 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE LONG TERM COMPRESSION PROOF LOAD TEST (AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REQUIRED.
- CONTROL WELDING SO THAT THE PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACES DOES NOT EXCEED 300°F AS DETERMINED BY USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.
- BEARING REPOSITIONING:
IF THE BEARINGS ARE IS ERECTED AT AN AMBIENT TEMPERATURE HIGHER THAN 80°F OR LOWER THAN 40°F AND THE BEARING SHEAR DEFLECTION EXCEEDS 1/6 OF THE BEARING HEIGHT AT 60°F (+/-) 10°F, RAISE THE BEAMS TO ALLOW THE BEARINGS TO RETURN TO THEIR UNDEFORMED SHAPE AT 60°F (+/-) 10°F.
- THE STEEL LOAD PLATE, AND PROFILE ADJUSTMENT PLATE SHALL BE ASTM A572/A709 GRADE 50 STEEL.
- THE STEEL LOAD PLATE SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS.
- ALL BEARINGS SHALL BE MARKED PRIOR TO SHIPPING. THE MARKS SHALL INCLUDE THE BEARING LOCATION ON THE BRIDGE, AND A DIRECTION ARROW THAT POINTS UP-STATION. ALL MARKS SHALL BE PERMANENT AND BE VISIBLE AFTER THE BEARING IS INSTALLED.
- TOTAL DESIGN FOR THE BEARINGS EQUALS THE SUM OF THE DEAD LOADS AND LIVE LOADS TABULATED IN THE BEARING TABLE.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL 1/8" THICK PREFORMED BEARING PADS ACCORDING TO 711.21 WHERE NEEDED TO ASSURE POSITIVE BEARING ON EACH BEARING. SHIMS SHALL BE ADHESIVE ANCHORED TO EACH OTHER AND THE BEARING WITH AN ADHESIVE APPROVED BY THE MANUFACTURER. ALL COSTS FOR BEARING PAD SHIMS SHALL BE INCLUDED WITH ITEM SP 516J REPLACE FIXED BEARING DEVICE, FOR PAYMENT.
- THE UNIT PRICE FOR BEARINGS SHALL INCLUDE ALL MATERIALS, LABOR, TESTING, STEEL LOAD PLATE, PROFILE ADJUSTMENT PLATE, ANY SHIMS REQUIRED, AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL LAMINATED ELASTOMERIC FIXED BEARINGS. PAYMENT SHALL BE MADE AT THE CONTRACT PRICE FOR ITEM SP 516J, EACH, REPLACE FIXED BEARING DEVICE.

NOTE:

FOR LOCATION OF NEW BEARINGS, SEE SHEET NO. 18A OF 69.

BEARING LOCATION	BEARING TYPE	NO. REQ'D	DEAD LOAD (KIPS)	LIVE LOAD (KIPS)	TOTAL LOAD (DL+LL) (KIPS)	Le (IN.)	We (IN.)	Tpi (IN.)	NO. OF Tpi'S	Tpe (TOP)	Tpe (BOTT.)	NUMBER OF INTERNAL LAMINATES (14 GAGE)	Te (IN.)	STEEL LOAD PLATE (IN.)			Tt (IN.)	FILLET WELD SIZE
														Wt	Lt	T		
EAST ABUT.	FIXED	12	17.10	31.50	48.60	5.00	10.00	0.182	4	0.130	0.130	5	1.37	28.0	6.00	1.50	2.87	0.375
WEST ABUT.	FIXED	12	17.10	31.50	48.60	5.00	10.00	0.182	4	0.130	0.130	5	1.37	28.0	6.00	1.50	2.87	0.375

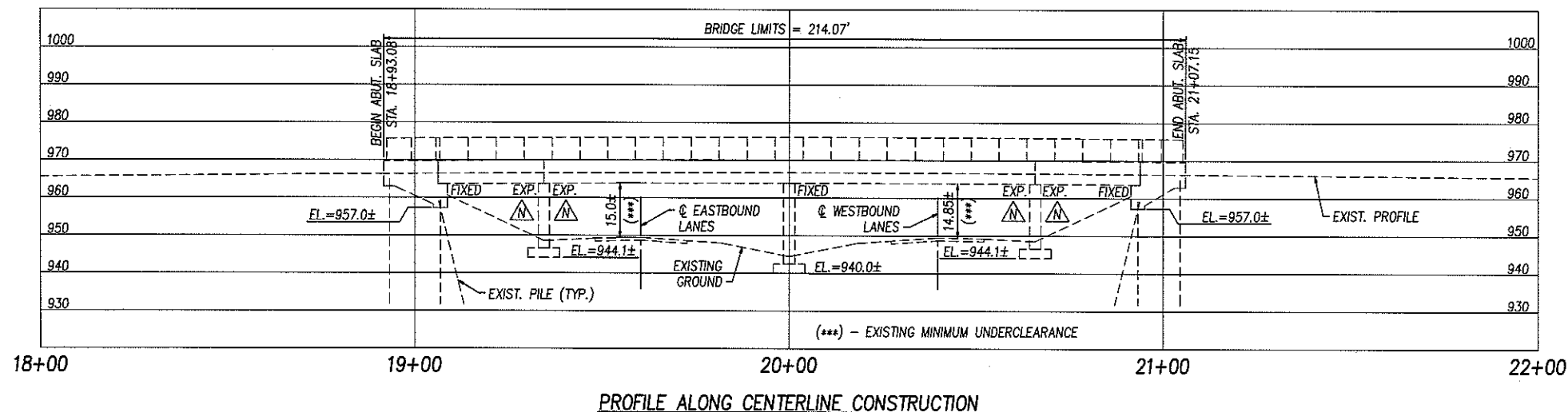
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION			
OHIO TURNPIKE OVER ABANDONED RAIL			



GENERAL PLAN

MP 3.10 - MALCOLM CHURCH ROAD (C.R. 4) OVER I-80/90 ESTIMATED QUANTITIES			
ITEM	TOTAL	UNIT	DESCRIPTION
SP 202	LUMP		PORTIONS OF STRUCTURE REMOVED
510	32	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT
SP 516B	633	LIN. FT.	SEALING OF CONSTRUCTION JOINTS
SP 516G	20	EACH	REPLACE EXPANSION BEARING DEVICE
SP 519	110	SQ. FT.	PATCHING CONCRETE STRUCTURES
SP 519C	16	EACH	CONCRETE PARAPET REPAIRS
SP 527	LUMP		FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES
SP 533E	30	LIN. FT.	CONTINUOUS ELASTOMER SEAL IN ELASTOMERIC CONCRETE JOINT
SP 533F	60	LIN. FT.	REPLACEMENT OF COMPRESSION SEAL WITH CONTINUOUS ELASTOMER SEAL
SP 536	575	SQ. YD.	CONCRETE WEATHERPROOFING, DECK, ABUTMENT SLABS AND APPROACH SLABS
SP 536	450	SQ. YD.	CONCRETE WEATHERPROOFING, PARAPETS
SP 536	8	SQ. YD.	CONCRETE WEATHERPROOFING, SUBSTRUCTURE
SP 607A	LUMP		REMOVE AND REUSE EXISTING FENCE

△ - NEW ELASTOMERIC BEARINGS (REMOVE EXISTING). SEE SHEET 66 FOR ADDITIONAL DETAILS.



PROFILE ALONG CENTERLINE CONSTRUCTION

EXISTING/PROPOSED STRUCTURE

TYPE: 4 SPAN NON-COMPOSITE STEEL BEAMS WITH REINFORCED CONCRETE DECK, CELLULAR REINFORCED CONCRETE ABUTMENTS, CAP AND COLUMN TYPE PIERS.
 SPANS: 27'-0"±, 65'-2½"±, 65'-2½"±, 27'-0"± ½ BEARINGS
 ROADWAY: 25'-6"± TOE/TOE OF PARAPETS
 SKEW: 04°36'00"± LEFT FORWARD
 WEARING SURFACE: 1¼" LATEX MODIFIED CONCRETE OVERLAY
 APPROACH SLABS: CELLULAR ABUTMENT SLAB
 ALIGNMENT: TANGENT
 BUILT: 1954 (REHABILITATION 1991)
 SFN: 8629242
 OTC MILEPOST: 3.10
 BRIDGE COORDINATES: 41°37'44" LAT., 84°44'49" LONG.

TRAFFIC DATA

ADT (2011) = 272

PROPOSED REHABILITATION SCOPE OF WORK:

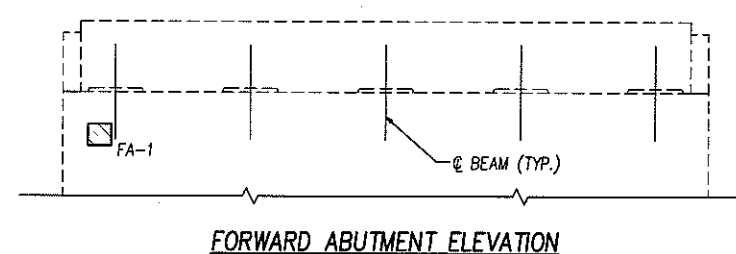
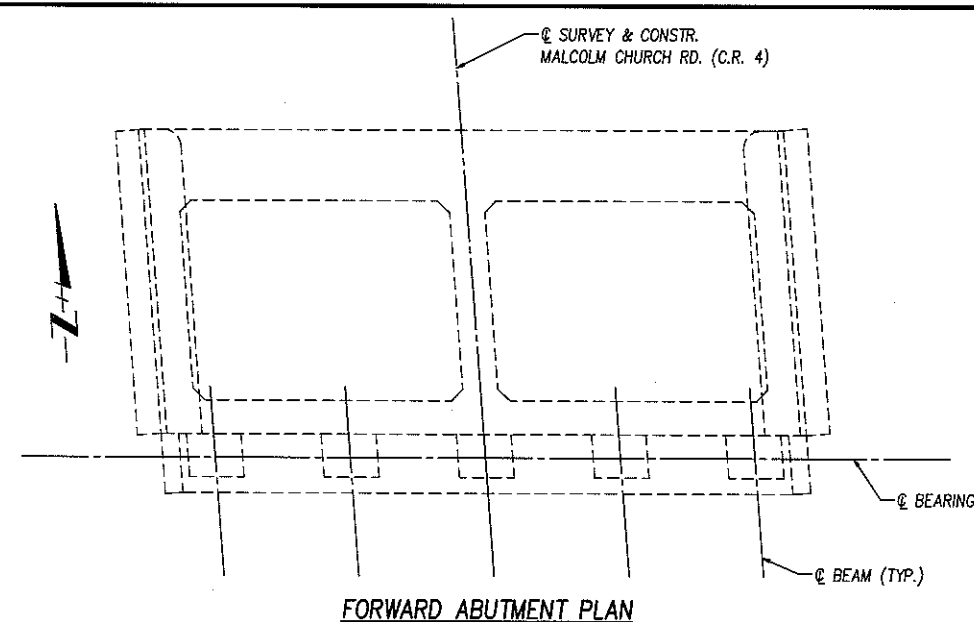
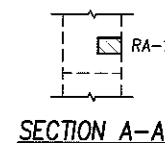
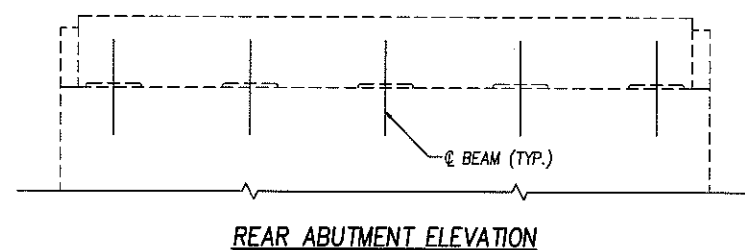
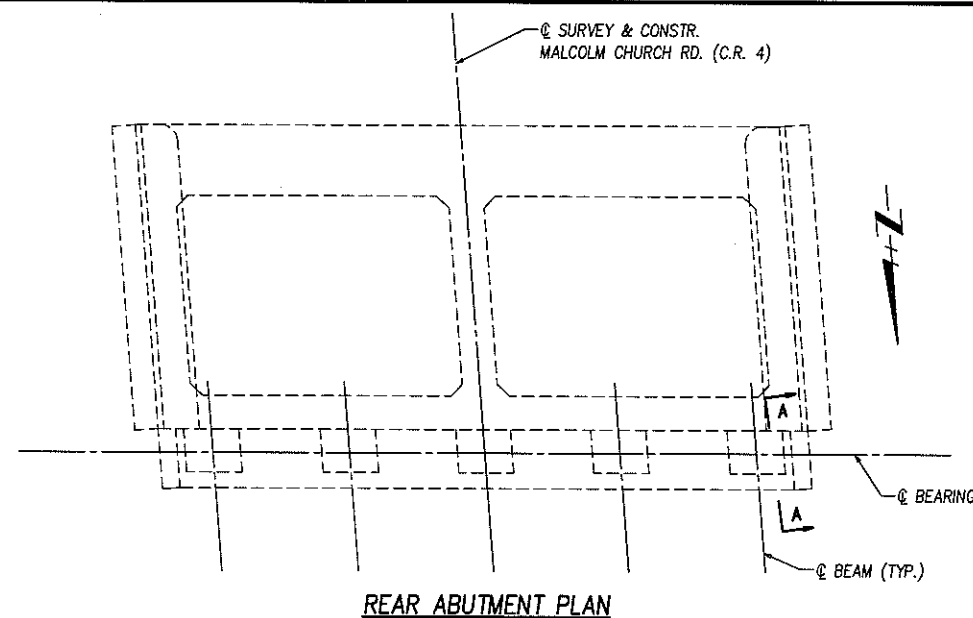
MALCOLM CHURCH ROAD (C.R. 4) OVER OHIO TURNPIKE M.P. 3.10

- PATCH ALL AREAS OF UNSOUND CONCRETE (PARAPETS, ABUTMENTS AND PIERS). ALSO REPAIR AREAS OF PARAPET WITH SOUND CONCRETE BUT EXPOSED REBAR.
- REPLACE PIER 1 AND 3 BEARINGS WITH ELASTOMERIC BEARINGS. SEE SHEETS 66-69.
- REPLACE REAR ABUTMENT AND FORWARD ABUTMENT COMPRESSION SEALS PER SP 533F. REPLACE PIER 1 EXPANSION JOINT PER SP 533E. SEE SHEET 65 FOR ADDITIONAL JOINT REPAIR DETAILS.
- SEAL ALL TRANSVERSE JOINTS AND TOE OF PARAPET/CURB LINES WITH HMWM RESIN PER SP 516B.
- MODIFY CHAIN LINK FENCE TO TERMINATE AT EXPANSION JOINTS PER OTC STD. DWG. CL-2. INCLUDE WITH ITEM SP 607A FOR PAYMENT. SEE SHEETS 21 AND 63 FOR ADDITIONAL DETAILS.
- RE-GRADE THE EMBANKMENT TRANSITIONING AROUND THE WINGWALLS AND ALONG THE FACE OF THE REAR ABUTMENT. INCLUDE WITH ITEM 202 FOR PAYMENT.
- SEAL SUPERSTRUCTURE CONCRETE, AS SHOWN IN THE PLANS, ALONG WITH PATCHED AREAS OF SUBSTRUCTURE CONCRETE.
- REHABILITATE BEARING PEDESTAL AT BEAM 3, PIERS 1 & 2.

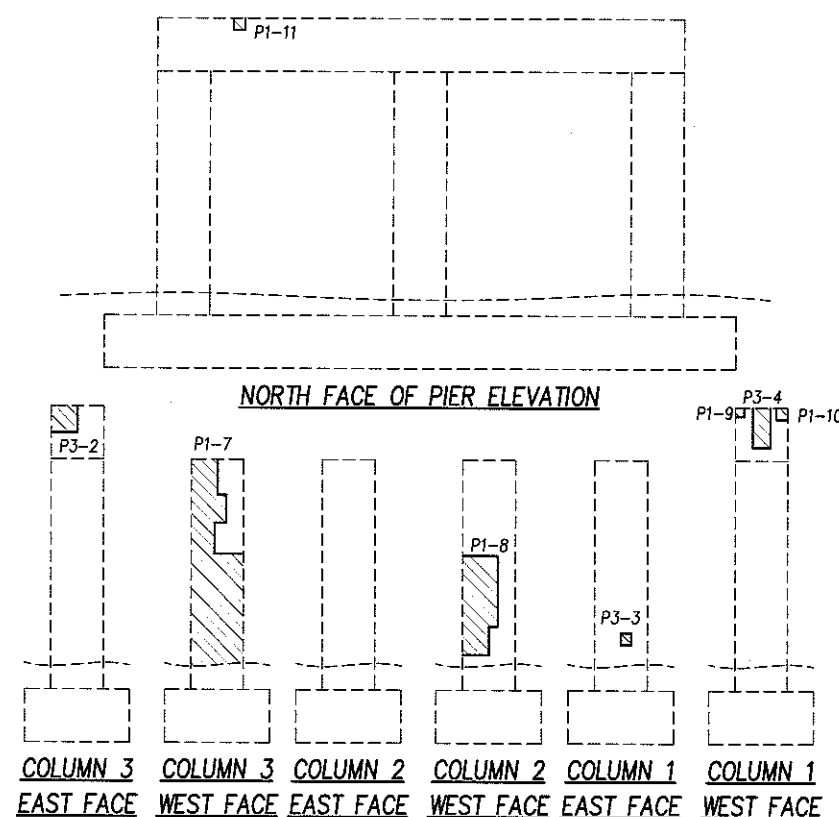
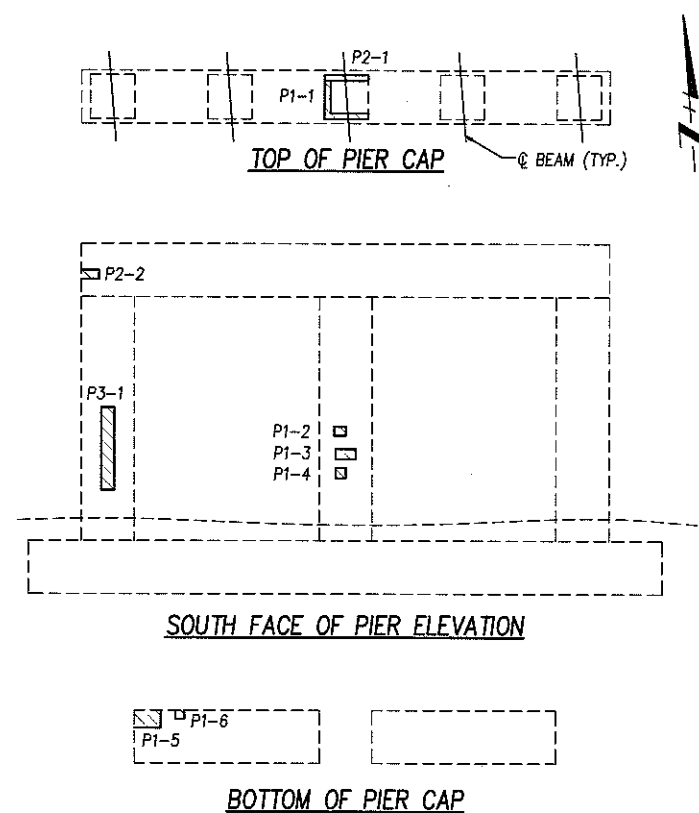
NOTES:

- THE PLAN SHOWN IS FROM THE ORIGINAL CONSTRUCTION & REHABILITATION PLANS, MAY NOT BE DRAWN TO SCALE AND IS FOR INFORMATION ONLY.

1 / 3	
NO.	REVISIONS BY DATE
OHIO TURNPIKE COMMISSION	
GENERAL PLAN AND PROFILE MP 3.10 - MALCOLM CHURCH ROAD (C.R. 4) OVER OHIO TURNPIKE	
DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429	
DESIGNED: NBL	CHECKED: AEH DATE: 1/18/13
DRAWN: NBL	IN CHARGE: AEH SCALE: AS SHOWN
CONTRACT 43-12-03 SHEET 19 OF 69	

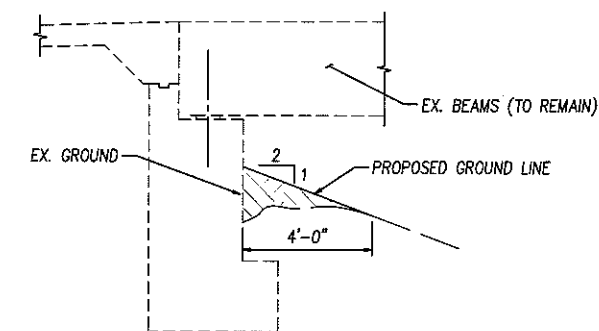


ABUTMENT PATCHING DETAILS



PIER PATCHING DETAILS

PATCHING CONCRETE STRUCTURE	
CONCRETE PATCH ID	AREA (SQ. FT.)
RA-1	1.0
FA-1	0.5
P1-1	2.0
P1-2	0.5
P1-3	1.0
P1-4	0.5
P1-5	1.5
P1-6	0.5
P1-7	32.0
P1-8	11.0
P1-9	0.5
P1-10	0.5
P1-11	0.5
P2-1	1.0
P2-2	1.0
P3-1	4.0
P3-2	1.0
P3-3	0.5
P3-4	2.5
SUB-TOTAL	62.0
TOTALS CARRIED TO SHEET 63/69	65



SLOPE REPAIR DETAIL (ALONG REAR ABUTMENT FACE ONLY)

NOTES & LEGEND:

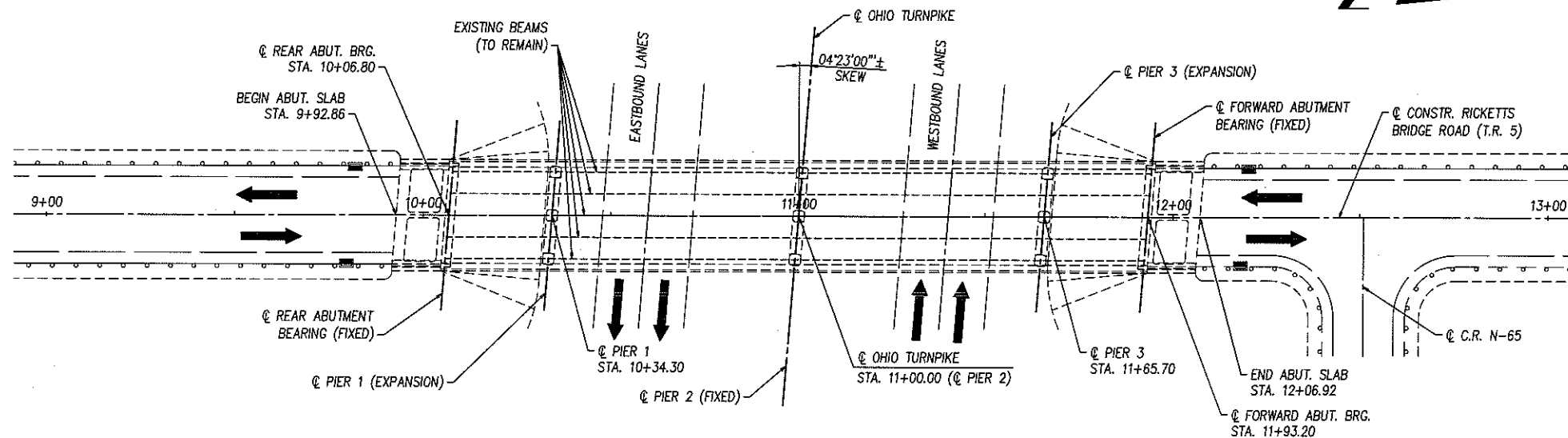
- THE SUBSTRUCTURE UNITS SHOWN ARE TO BE REPAIRED USING THE METHODS AND MATERIALS SPECIFIED BY SP 519 AND SEALED PER SP 536. SEE GENERAL NOTES ON SHEET 18 OF 69.

- PIERS ARE NUMBERED SOUTH TO NORTH, PIER COLUMNS ARE NUMBERED WEST TO EAST. SEE GENERAL PLAN FOR FURTHER DETAILS.

- INDICATES APPROXIMATE CONCRETE PATCHING LIMITS & LOCATIONS

- INDICATES EMBANKMENT PER ODOT CMS 203. INCLUDE WITH ITEM SP 202 FOR PAYMENT

2 / 3	
NO.	REVISIONS
BY	DATE
OHIO TURNPIKE COMMISSION	
EXISTING SUBSTRUCTURE REPAIR DETAILS	
MP 3.10 - MALCOLM CHURCH ROAD (C.R. 4) OVER OHIO TURNPIKE	
DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429	
DESIGNED: NBL	CHECKED: AEH
DRAWN: NBL	IN CHARGE: AEH
DATE: 6/6/12	SCALE: AS SHOWN
CONTRACT 43-12-03 SHEET 20 OF 69	



EXISTING/PROPOSED STRUCTURE

TYPE: 4 SPAN NON-COMPOSITE STEEL BEAMS WITH REINFORCED CONCRETE DECK, CELLULAR REINFORCED CONCRETE ABUTMENTS, CAP AND COLUMN TYPE PIERS.
 SPANS: 27'-0"±, 65'-2 3/8"±, 65'-2 3/8"±, 27'-0"± 1/2 BEARINGS
 ROADWAY: 25'-6"± TOE/TOE OF PARAPETS
 SKEW: 04°23'00"± LEFT FORWARD
 WEARING SURFACE: 1 1/4" LATEX MODIFIED CONCRETE OVERLAY
 APPROACH SLABS: CELLULAR ABUTMENT SLAB
 ALIGNMENT: TANGENT
 BUILT: 1954 (REHABILITATION 1991)
 SFN: 8629269
 OTC MILEPOST: 4.10
 BRIDGE COORDINATES: 41°37'40" LAT., 84°43'39" LONG.

TRAFFIC DATA

ADT (2011) = 272

PROPOSED REHABILITATION SCOPE OF WORK:

RICKETTS BRIDGE ROAD (T.R. 5) OVER OHIO TURNPIKE M.P. 4.10

1. PATCH ALL AREAS OF UNSOUND CONCRETE (PARAPETS, ABUTMENTS AND PIERS). ALSO REPAIR AREAS OF PARAPET WITH SOUND CONCRETE BUT EXPOSED REBAR.
2. REPLACE PIER 1 AND 3 BEARINGS WITH ELASTOMERIC BEARINGS. SEE SHEETS 66-69.
3. REPLACE REAR ABUTMENT AND FORWARD ABUTMENT COMPRESSION SEALS PER SP 533F. SEE SHEET 65 FOR ADDITIONAL JOINT REPAIR DETAILS.
4. SEAL ALL TRANSVERSE JOINTS AND TOE OF PARAPET/CURBLINES WITH HMWM RESIN PER SP 516B.
5. SEAL SUPERSTRUCTURE CONCRETE, AS SHOWN IN THE PLANS, ALONG WITH PATCHED AREAS OF SUBSTRUCTURE CONCRETE.
6. REHABILITATE BEARING PEDESTAL AT BEAM 1 ON PIER 3.

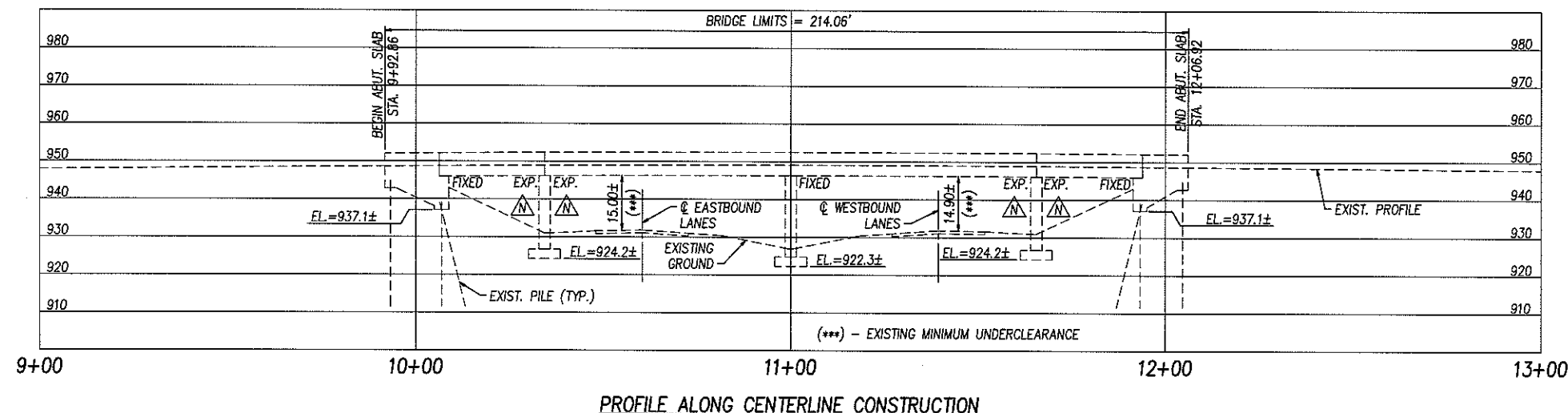
NOTES:

- THE PLAN SHOWN IS FROM THE ORIGINAL CONSTRUCTION & REHABILITATION PLANS, MAY NOT BE DRAWN TO SCALE AND IS FOR INFORMATION ONLY.

MP 4.10 - RICKETTS BRIDGE ROAD (T.R. 5) OVER I-80/I-90 ESTIMATED QUANTITIES			
ITEM	TOTAL	UNIT	DESCRIPTION
SP 202	LUMP		PORTIONS OF STRUCTURE REMOVED
510	32	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT
SP 516B	633	LIN. FT.	SEALING OF CONSTRUCTION JOINTS
SP 516G	20	EACH	REPLACE EXPANSION BEARING DEVICE
SP 519	105	SQ. FT.	PATCHING CONCRETE STRUCTURES
SP 527	LUMP		FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES
SP 533F	60	LIN. FT.	REPLACEMENT OF COMPRESSION SEAL WITH CONTINUOUS ELASTOMER SEAL
SP 536	575	SQ. YD.	CONCRETE WEATHERPROOFING, DECK, ABUTMENT SLABS AND APPROACH SLABS
SP 536	450	SQ. YD.	CONCRETE WEATHERPROOFING, PARAPETS
SP 536	5	SQ. YD.	CONCRETE WEATHERPROOFING, SUBSTRUCTURE

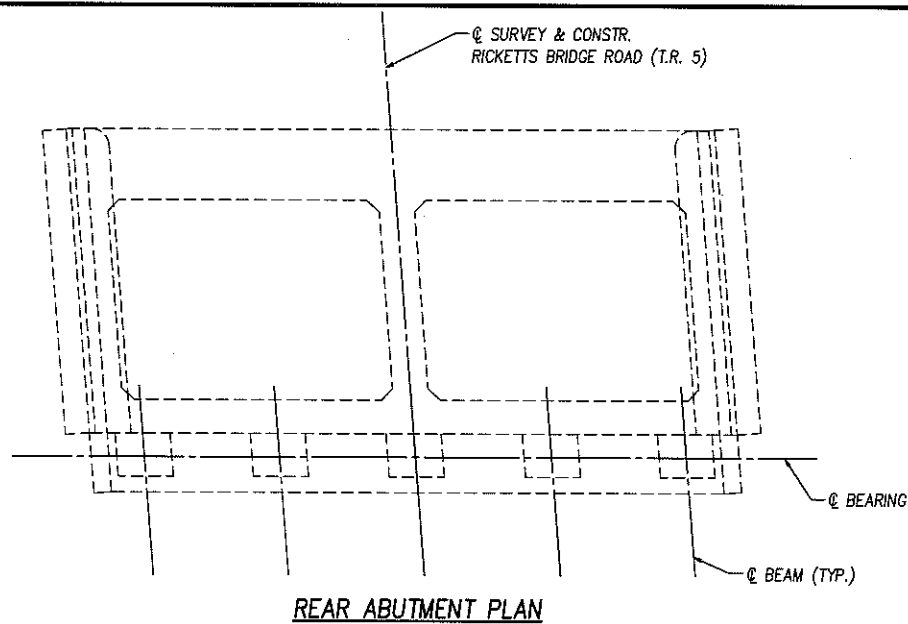
GENERAL PLAN

△ - NEW ELASTOMERIC BEARINGS (REMOVE EXISTING). SEE SHEET 66 FOR ADDITIONAL DETAILS.

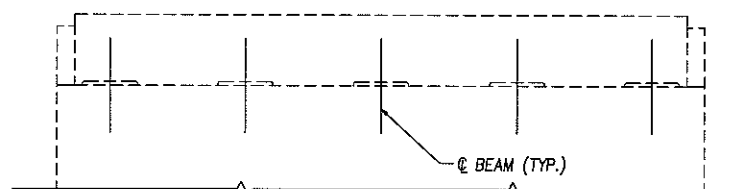


PROFILE ALONG CENTERLINE CONSTRUCTION

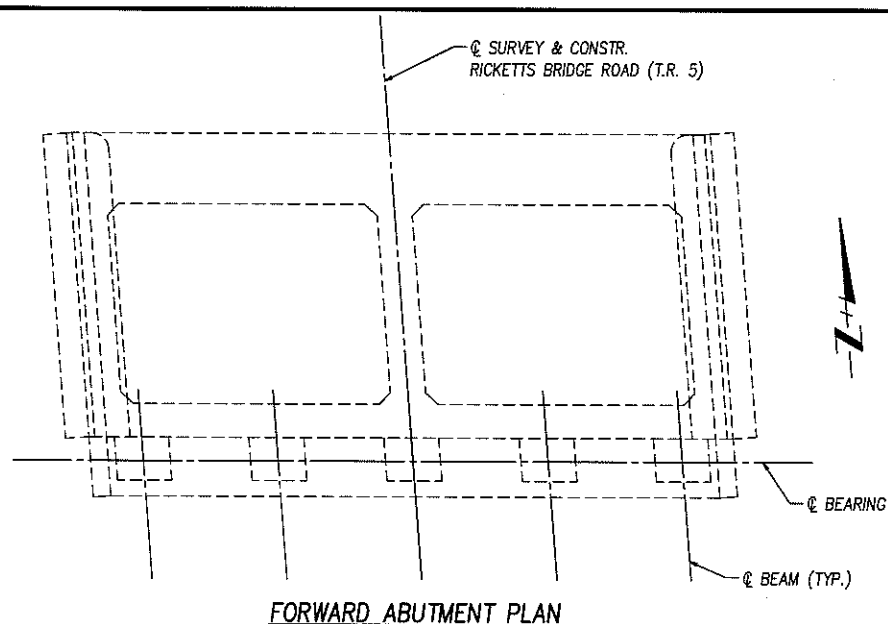
1 / 3	
NO.	REVISIONS
BY DATE	
OHIO TURNPIKE COMMISSION	
GENERAL PLAN AND PROFILE	
MP 4.10 - RICKETTS BRIDGE ROAD	
(T.R. 5) OVER OHIO TURNPIKE	
DGL CONSULTING ENGINEERS, LLC	
3455 Briarfield Blvd. Suite E	
Maumee, OH 43537	
Ph 419.535.1015 • Fax 419.535.1429	
DESIGNED: NBL	CHECKED: AEH
DRAWN: NBL	IN CHARGE: AEH
DATE: 1/16/13	
SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 22 OF 69	



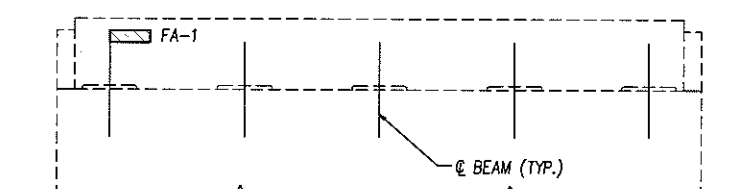
REAR ABUTMENT PLAN



REAR ABUTMENT ELEVATION

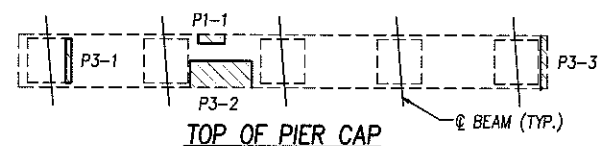


FORWARD ABUTMENT PLAN

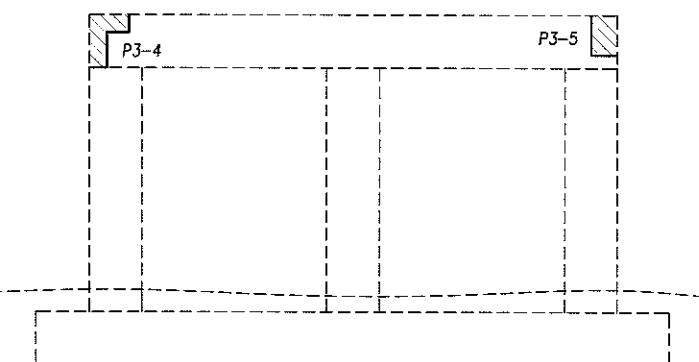


FORWARD ABUTMENT ELEVATION

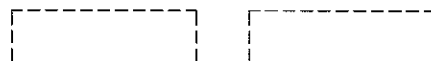
ABUTMENT PATCHING DETAILS



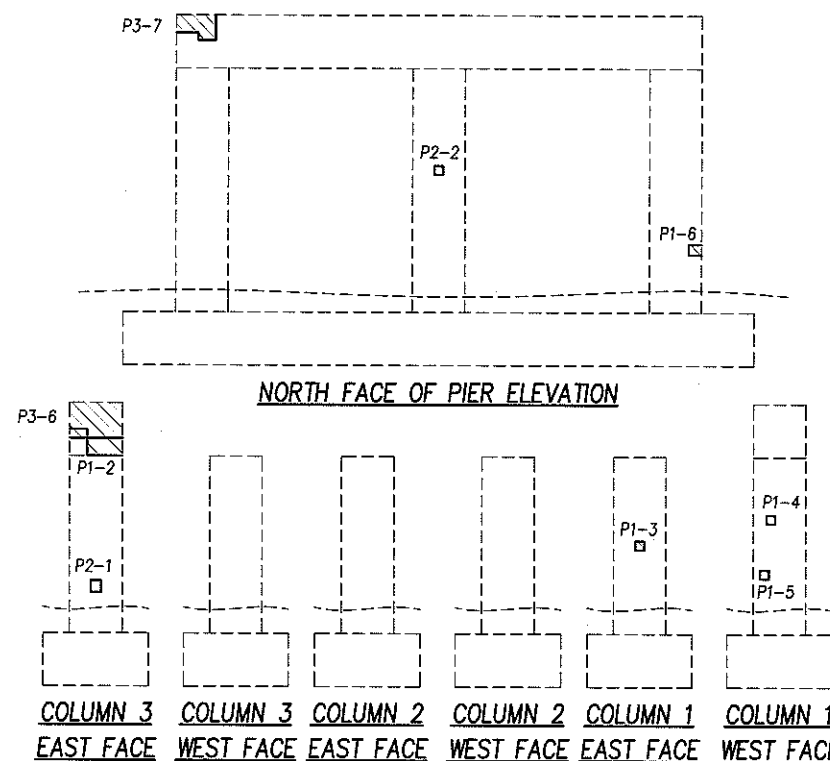
TOP OF PIER CAP



SOUTH FACE OF PIER ELEVATION



BOTTOM OF PIER CAP



PIER PATCHING DETAILS

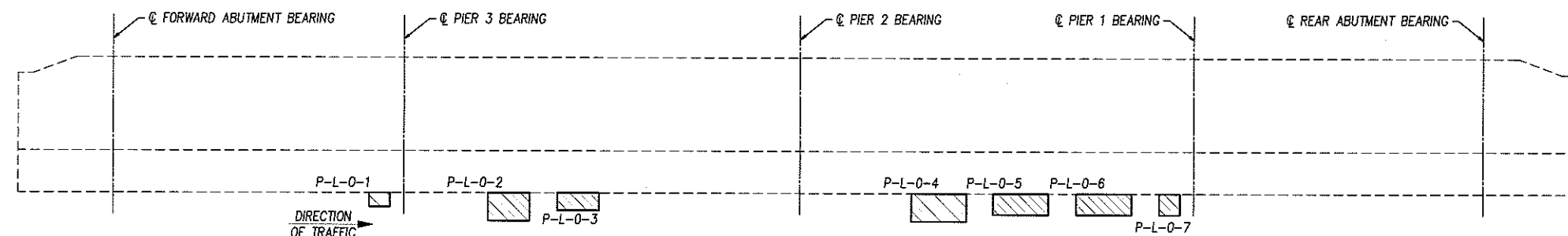
PATCHING CONCRETE STRUCTURE	
CONCRETE PATCH ID	AREA (SQ. FT.)
FA-1	1.0
P1-1	1.0
P1-2	8.0
P1-3	0.5
P1-4	0.5
P1-5	0.5
P1-6	0.5
P2-1	0.5
P2-2	0.5
P3-1	0.5
P3-2	5.5
P3-3	1.0
P3-4	4.5
P3-5	3.5
P3-6	6.0
P3-7	3.0
SUB-TOTAL	37.0
TOTALS CARRIED TO SHEET 63/69	40

NOTES & LEGEND:

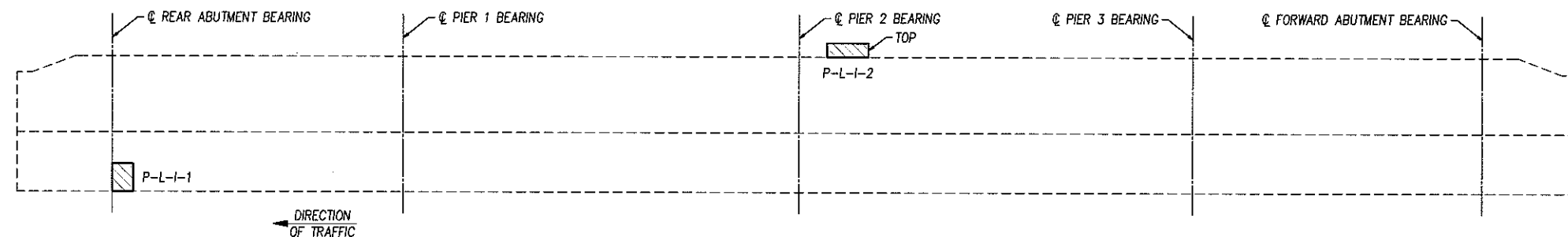
- THE SUBSTRUCTURE UNITS SHOWN ARE TO BE REPAIRED USING THE METHODS AND MATERIALS SPECIFIED BY SP 519 AND SEALED PER SP 536. SEE GENERAL NOTES ON SHEET 18 OF 69.
- PIERS ARE NUMBERED SOUTH TO NORTH, PIER COLUMNS ARE NUMBERED WEST TO EAST. SEE GENERAL PLAN FOR FURTHER DETAILS.

 - INDICATES APPROXIMATE CONCRETE PATCHING LIMITS & LOCATIONS

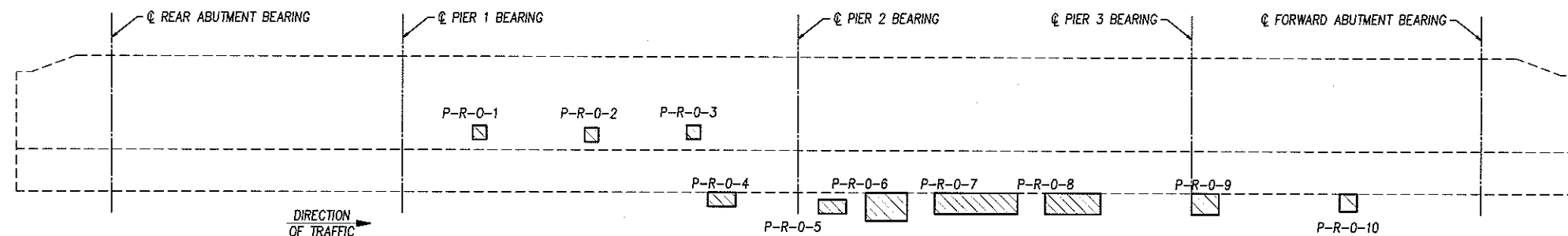
2 / 3			
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION			
EXISTING SUBSTRUCTURE REPAIR DETAILS			
MP 4.10 - RICKETTS BRIDGE ROAD (T.R. 5) OVER OHIO TURNPIKE			
 DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429			
DESIGNED: NBL	CHECKED: AEH	DATE: 6/6/12	
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 23 OF 69			



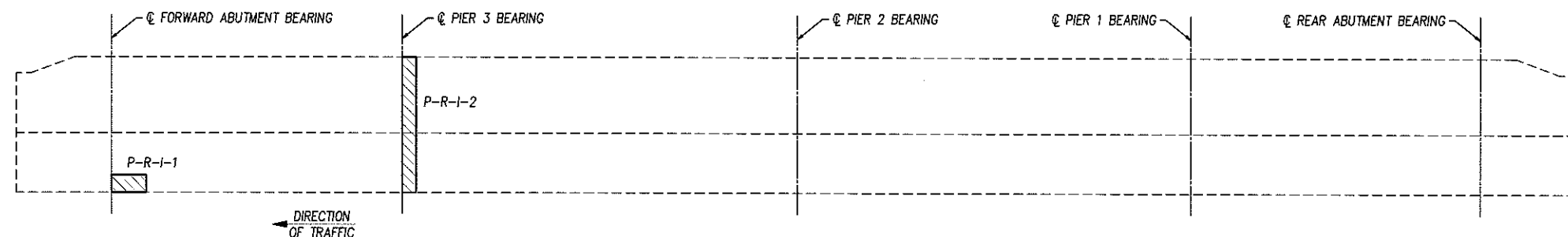
PARAPET PATCHING DETAILS - OUTSIDE FACE OF LEFT (WEST) PARAPET
(NOT TO SCALE)



PARAPET PATCHING DETAILS - INSIDE FACE OF LEFT (WEST) PARAPET
(NOT TO SCALE)



PARAPET PATCHING DETAILS - OUTSIDE FACE OF RIGHT (EAST) PARAPET
(NOT TO SCALE)



PARAPET PATCHING DETAILS - INSIDE FACE OF RIGHT (EAST) PARAPET
(NOT TO SCALE)

NOTES & LEGEND:

- THE PARAPET UNITS SHOWN ARE TO BE REPAIRED USING THE METHODS AND MATERIALS SPECIFIED BY SP 519 AND SEALED PER SP 536. SEE GENERAL NOTES ON SHEET 18 OF 69.

- INDICATES APPROXIMATE CONCRETE PATCHING LIMITS

- X-Y-Z-#
P = PATCH REPAIR
L = LEFT PARAPET
R = RIGHT PARAPET
I = INSIDE FACE
O = OUTSIDE FACE
I.D. NUMBER

PATCHING CONCRETE PARAPETS			
LEFT (WEST) PARAPET		RIGHT (EAST) PARAPET	
CONCRETE PATCH ID	AREA (SQ. FT.)	CONCRETE PATCH ID	AREA (SQ. FT.)
P-L-0-1 (Δ)	1.5	P-R-0-1	0.5
P-L-0-2 (Δ)	6.0	P-R-0-2	0.5
P-L-0-3 (Δ)	3.0	P-R-0-3	0.5
P-L-0-4 (Δ)	6.0	P-R-0-4 (Δ)	1.0
P-L-0-5 (Δ)	6.0	P-R-0-5 (Δ)	1.0
P-L-0-6 (Δ)	6.0	P-R-0-6 (Δ)	7.0
P-L-0-7 (Δ)	2.5	P-R-0-7 (Δ)	0.5
		P-R-0-8 (Δ)	4.0
		P-R-0-9 (Δ)	4.0
P-L-I-1	2.0	P-R-0-10 (Δ)	1.0
P-L-I-2	2.5		
		P-R-I-1	3.0
		P-R-I-2	2.5
SUB-TOTAL	35.5	SUB-TOTAL	25.5
	TOTALS CARRIED TO SHEET 63/69	65	

(Δ) - PATCH IS LOCATED ALONG THE UNDERSIDE OF THE PARAPET

3 / 3

NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION			
EXISTING PARAPET REPAIR DETAILS			
MP 4.10 - RICKETTS BRIDGE ROAD (T.R. 5) OVER OHIO TURNPIKE			
DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429			
DESIGNED: NBL	CHECKED: MDM	DATE: 6/14/12	
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 24 OF 69			

EXISTING/PROPOSED STRUCTURE

TYPE: 4 SPAN NON-COMPOSITE STEEL BEAMS WITH
REINFORCED CONCRETE DECK, CELLULAR REINFORCED
CONCRETE ABUTMENTS, CAP AND COLUMN TYPE PIERS.
SPANS: 28'-3"±, 67'-1"±, 67'-1"±, 25'-6"± % BEARINGS
ROADWAY: 25'-6"± TOE/TOE OF PARAPETS
SKEW: 14°16'00"± LEFT FORWARD
WEARING SURFACE: 1 1/4" LATEX MODIFIED CONCRETE OVERLAY
APPROACH SLABS: CELLULAR ABUTMENT SLAB
ALIGNMENT: TANGENT
BUILT: 1954 (REHABILITATION 1991)
SFN: 8629323
OTC MILEPOST: 5.10
BRIDGE COORDINATES: 41°37'35" LAT., 84°42'30" LONG.

TRAFFIC DATA

ADT (2011) = 92

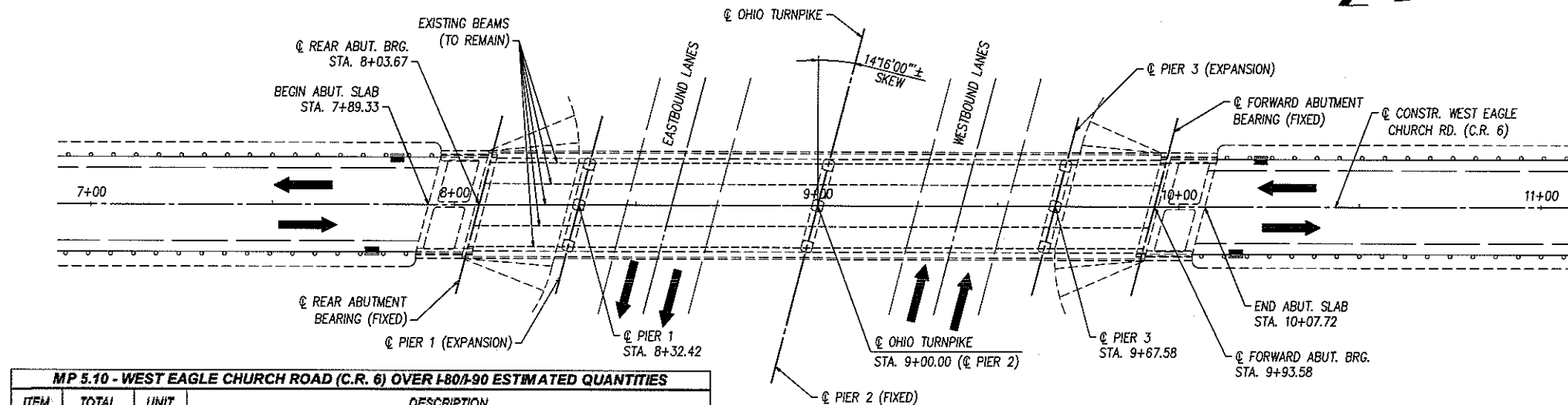
PROPOSED REHABILITATION SCOPE OF WORK:

WEST EAGLE CHURCH ROAD (C.R. 6) OVER OHIO TURNPIKE M.P. 5.10

1. PATCH ALL AREAS OF UNSOUND CONCRETE (PARAPETS, ABUTMENTS AND PIERS). ALSO REPAIR AREAS OF PARAPET WITH SOUND CONCRETE BUT EXPOSED REBAR.
2. REPLACE PIER 1 AND 3 BEARINGS WITH ELASTOMERIC BEARINGS. SEE SHEETS 66-69.
3. REPLACE REAR ABUTMENT AND FORWARD ABUTMENT COMPRESSION SEALS PER SP 533F. REPLACE PIER 3 EXPANSION JOINT PER SP 533E. SEE SHEET 65 FOR ADDITIONAL JOINT REPAIR DETAILS.
4. SEAL ALL TRANSVERSE JOINTS, ABUTMENT SLAB REPAIR AND TOE OF PARAPET/CURBLINES WITH HMWM RESIN PER SP 516B.
5. MODIFY CHAIN LINK FENCE TO TERMINATE AT EXPANSION JOINTS PER OTC STD. DWG. CL-2. INCLUDE WITH ITEM SP 607A FOR PAYMENT. SEE SHEETS 27 AND 63 FOR ADDITIONAL DETAILS.
6. SEAL SUPERSTRUCTURE CONCRETE, AS SHOWN IN THE PLANS, ALONG WITH PATCHED AREAS OF SUBSTRUCTURE CONCRETE.

NOTES:

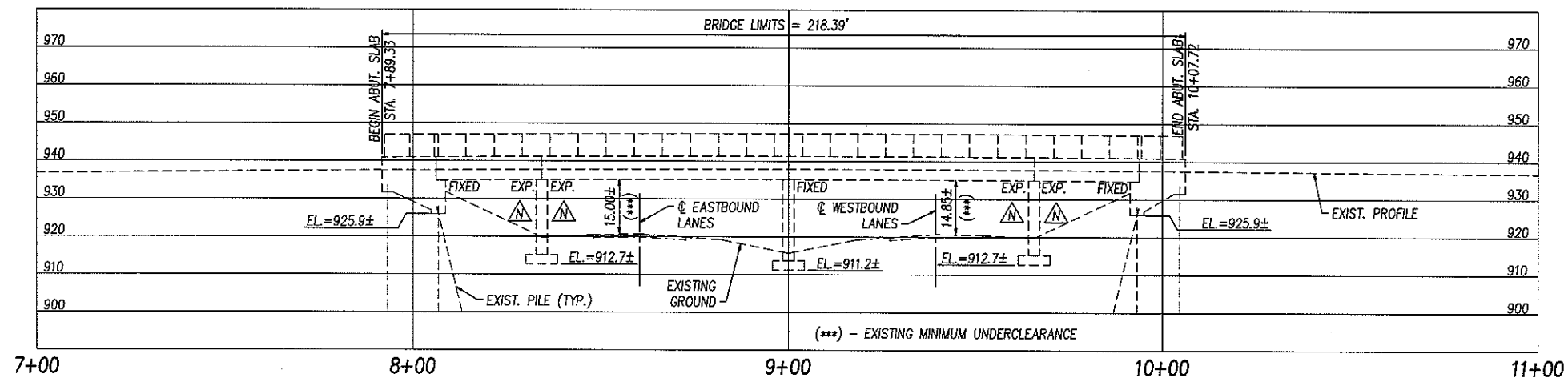
- THE PLAN SHOWN IS FROM THE ORIGINAL CONSTRUCTION & REHABILITATION PLANS, MAY NOT BE DRAWN TO SCALE AND IS FOR INFORMATION ONLY.



GENERAL PLAN

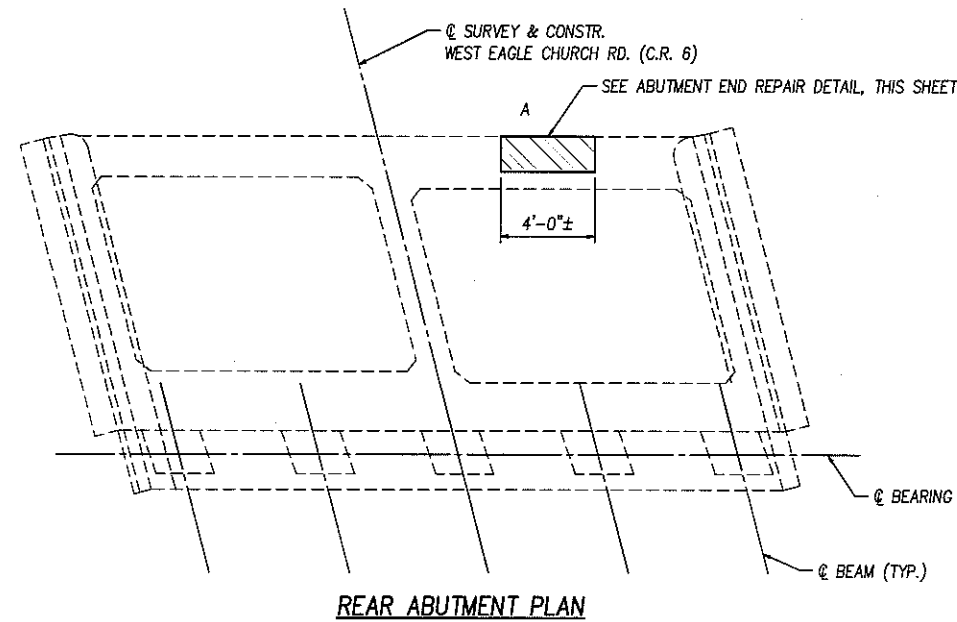
MP 5.10 - WEST EAGLE CHURCH ROAD (C.R. 6) OVER I-80/I-90 ESTIMATED QUANTITIES			
ITEM	TOTAL	UNIT	DESCRIPTION
SP 202	LUMP		PORTIONS OF STRUCTURE REMOVED
510	32	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT
SP 516B	641	LIN. FT.	SEALING OF CONSTRUCTION JOINTS
SP 516G	20	EACH	REPLACE EXPANSION BEARING DEVICE
SP 519	235	SQ. FT.	PATCHING CONCRETE STRUCTURES
SP 519C	12	EACH	CONCRETE PARAPET REPAIRS
SP 527	LUMP		FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES
SP 533E	30	LIN. FT.	CONTINUOUS ELASTOMER SEAL IN ELASTOMERIC CONCRETE JOINT
SP 533F	60	LIN. FT.	REPLACEMENT OF COMPRESSION SEAL WITH CONTINUOUS ELASTOMER SEAL
SP 536	585	SQ. YD.	CONCRETE WEATHERPROOFING, DECK, ABUTMENT SLABS AND APPROACH SLABS
SP 536	455	SQ. YD.	CONCRETE WEATHERPROOFING, PARAPETS
SP 536	4	SQ. YD.	CONCRETE WEATHERPROOFING, SUBSTRUCTURE
SP 607A	LUMP		REMOVE AND REUSE EXISTING FENCE

△ - NEW ELASTOMERIC BEARINGS (REMOVE EXISTING). SEE SHEET 66 FOR ADDITIONAL DETAILS.

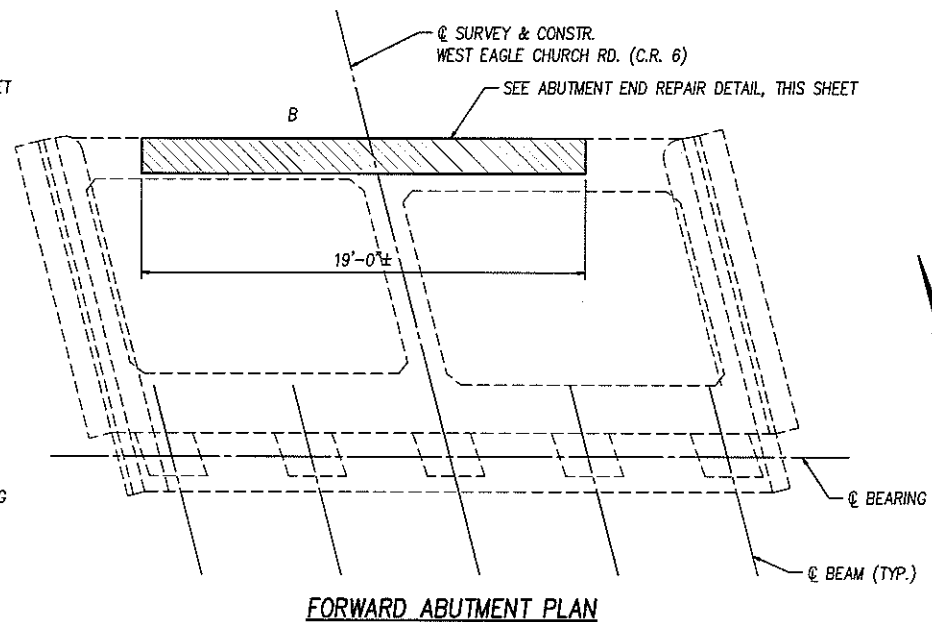


PROFILE ALONG CENTERLINE CONSTRUCTION

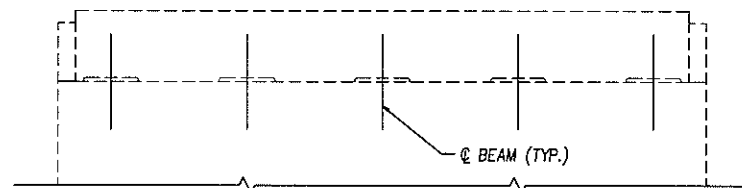
1 / 3			
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION			
GENERAL PLAN AND PROFILE MP 5.10 - WEST EAGLE CHURCH ROAD (C.R. 6) OVER OHIO TURNPIKE			
 DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429			
DESIGNED: NBL	CHECKED: AEH	DATE: 1/18/13	
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 25 OF 69			



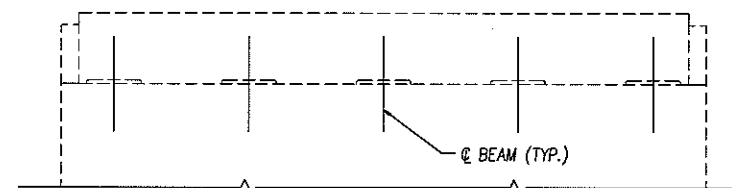
REAR ABUTMENT PLAN



FORWARD ABUTMENT PLAN

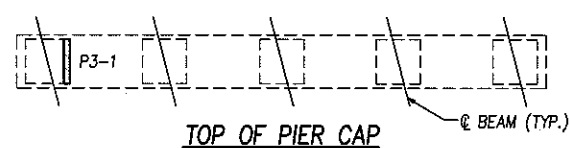


REAR ABUTMENT ELEVATION

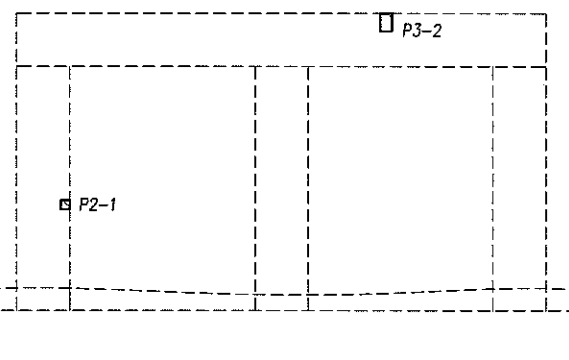


FORWARD ABUTMENT ELEVATION

ABUTMENT PATCHING DETAILS



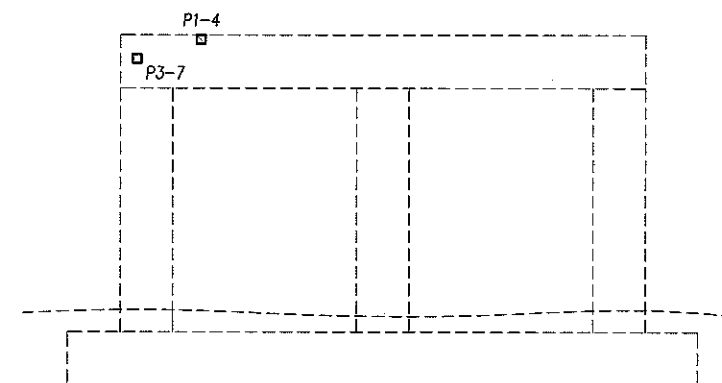
TOP OF PIER CAP



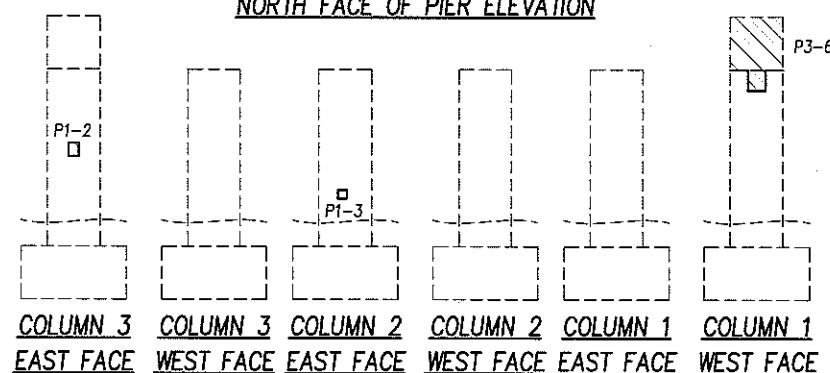
SOUTH FACE OF PIER ELEVATION



BOTTOM OF PIER CAP

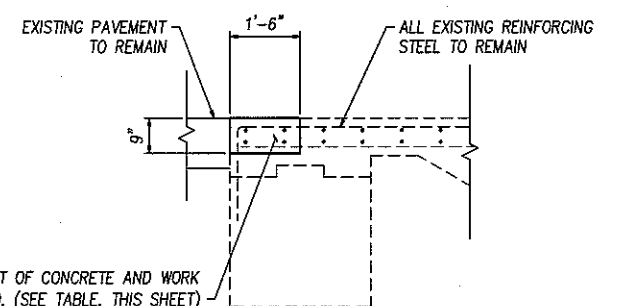


NORTH FACE OF PIER ELEVATION



PIER PATCHING DETAILS

PATCHING CONCRETE STRUCTURE	
CONCRETE PATCH ID	AREA (SQ. FT.)
P1-1	7.0
P1-2	0.5
P1-3	0.5
P1-4	0.5
P2-1	0.5
P3-1	1.0
P3-2	1.0
P3-3	2.0
P3-4	2.0
P3-5	6.5
P3-6	11
P3-7	0.5
A	6
B	28.5
SUB-TOTAL	67.5
TOTALS CARRIED TO SHEET 63/69	70



ABUTMENT END REPAIR DETAIL

(PARTIAL EXISTING REINFORCING STEEL SHOWN FOR CLARITY)

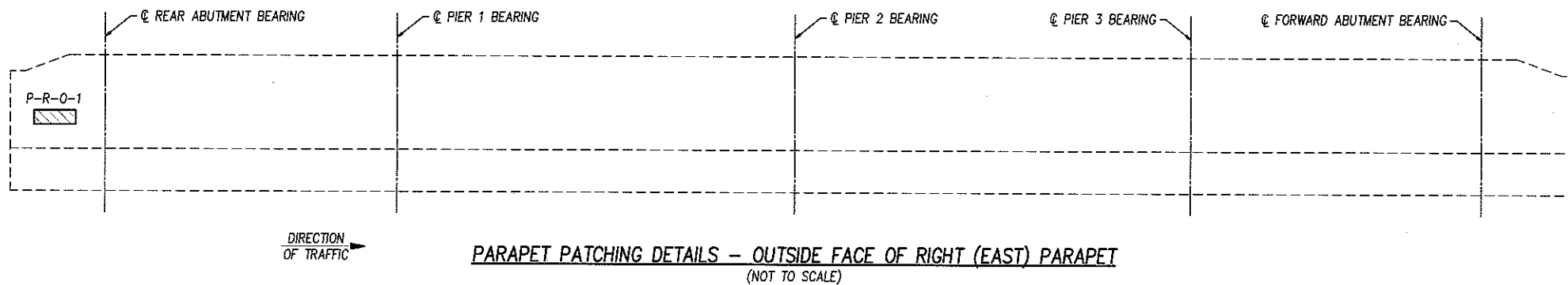
NOTES & LEGEND:

- THE SUBSTRUCTURE UNITS SHOWN ARE TO BE REPAIRED USING THE METHODS AND MATERIALS SPECIFIED BY SP 519 AND SEALED PER SP 536. SEE GENERAL NOTES ON SHEET 18 OF 69.
- PIERS ARE NUMBERED SOUTH TO NORTH, PIER COLUMNS ARE NUMBERED WEST TO EAST. SEE GENERAL PLAN FOR FURTHER DETAILS.

— INDICATES APPROXIMATE CONCRETE PATCHING LIMITS & LOCATIONS

2 / 3	
NO.	REVISIONS
BY DATE	
OHIO TURNPIKE COMMISSION	
EXISTING SUBSTRUCTURE	
REPAIR DETAILS	
MP 5.10 - WEST EAGLE CHURCH ROAD	
(C.R. 6) OVER OHIO TURNPIKE	
DGL CONSULTING ENGINEERS, LLC	
3455 Briarfield Blvd. Suite E	
Maumee, OH 43537	
Ph 419.535.1015 • Fax 419.535.1429	
DESIGNED: NBL	CHECKED: AEH
DRAWN: NBL	IN CHARGE: AEH
DATE: 1/16/13	
SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 26 OF 69	

PATCHING CONCRETE PARAPETS	
RIGHT (EAST) PARAPET	
CONCRETE PATCH ID	AREA (SQ. FT.)
P-R-0-1	1.5
SUB-TOTAL	1.5
TOTALS CARRIED TO SHEET 63/69	5



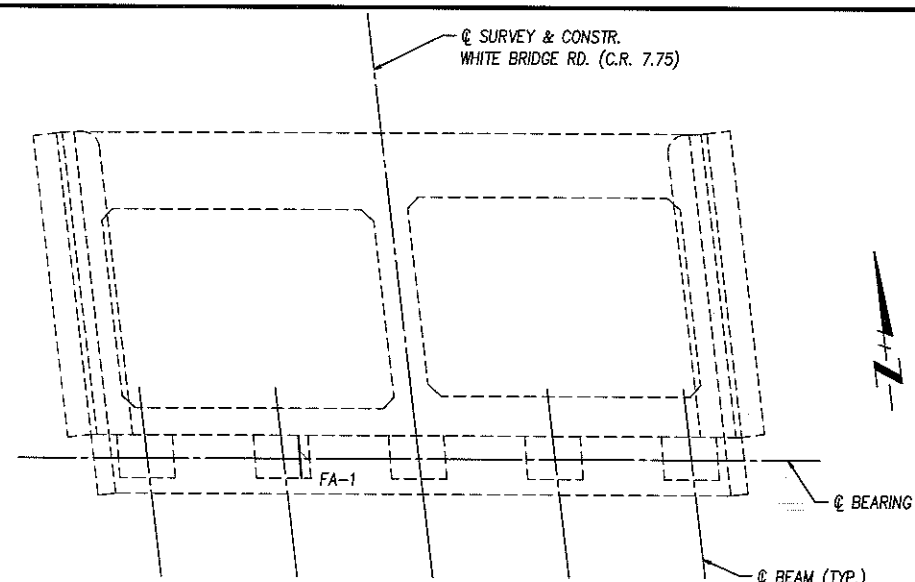
NOTES & LEGEND:

- THE PARAPET UNITS SHOWN ARE TO BE REPAIRED USING THE METHODS AND MATERIALS SPECIFIED BY SP 519 AND SEALED PER SP 536. SEE GENERAL NOTES ON SHEET 18 OF 69.

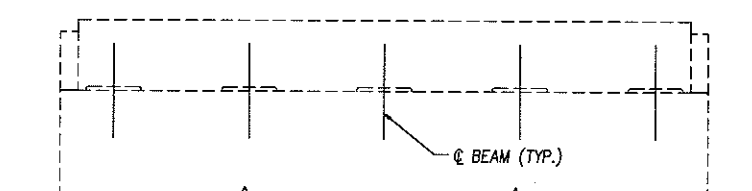
 - INDICATES APPROXIMATE CONCRETE PATCHING LIMITS

- X-Y-Z-#
P = PATCH REPAIR
L = LEFT PARAPET
R = RIGHT PARAPET
I = INSIDE FACE
O = OUTSIDE FACE
I.D. NUMBER

3 / 3			
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION			
EXISTING PARAPET REPAIR DETAILS			
MP 6.00 - NETTLE CREEK ROAD (C.R. N.30) OVER OHIO TURNPIKE			
 DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429			
DESIGNED: NBL	CHECKED: MDM	DATE: 6/14/12	
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 30 OF 69			

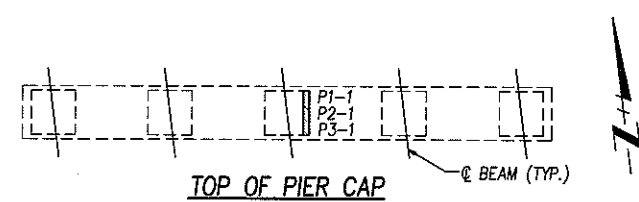


FORWARD ABUTMENT PLAN

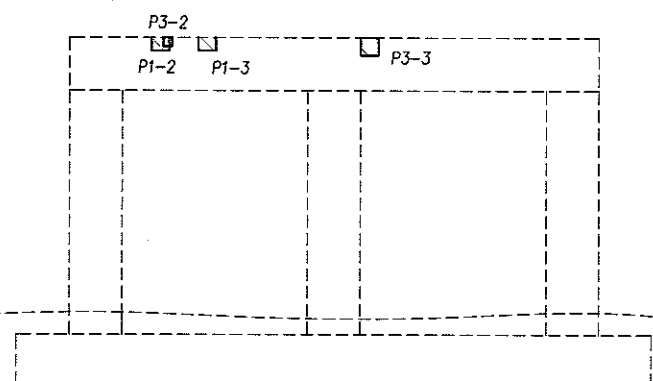


FORWARD ABUTMENT ELEVATION

ABUTMENT PATCHING DETAILS



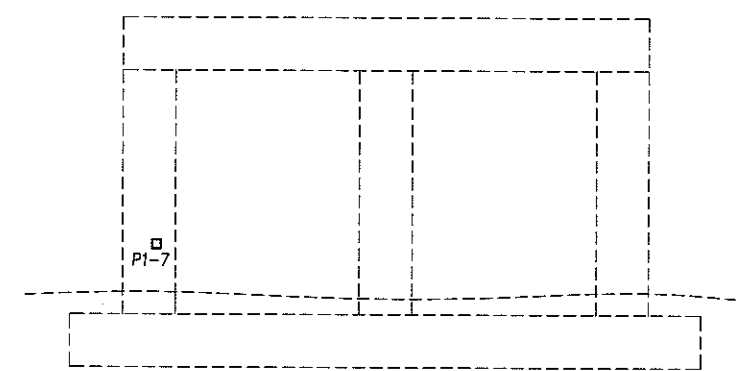
TOP OF PIER CAP



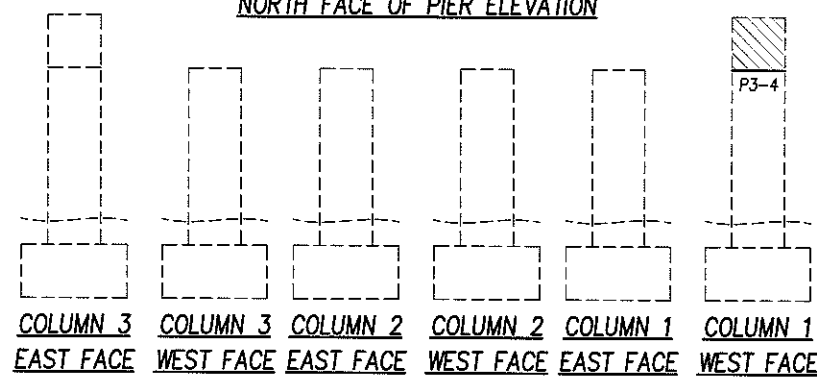
SOUTH FACE OF PIER ELEVATION



BOTTOM OF PIER CAP



NORTH FACE OF PIER ELEVATION



PIER PATCHING DETAILS

PATCHING CONCRETE STRUCTURE	
CONCRETE PATCH ID	AREA (SQ. FT.)
FA-1	1.0
P1-1	1.0
P1-2	1.0
P1-3	1.0
P1-4	0.5
P1-5	3.0
P1-6	1.0
P1-7	0.5
P2-1	1.0
P3-1	1.0
P3-2	0.5
P3-3	1.0
P3-4	9.0
SUB-TOTAL	21.5
TOTALS CARRIED TO SHEET 63/69	25

NOTES & LEGEND:

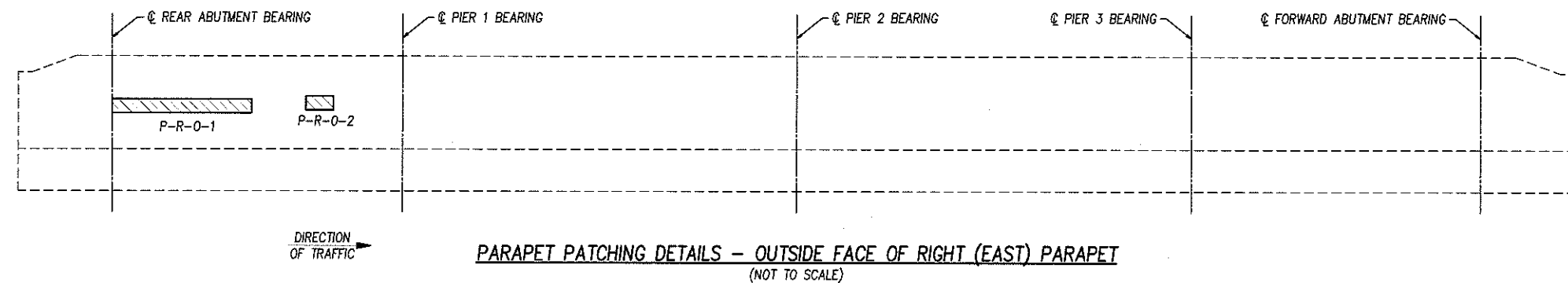
- THE SUBSTRUCTURE UNITS SHOWN ARE TO BE REPAIRED USING THE METHODS AND MATERIALS SPECIFIED BY SP 519 AND SEALED PER SP 536. SEE GENERAL NOTES ON SHEET 18 OF 69.
- PIERS ARE NUMBERED SOUTH TO NORTH, PIER COLUMNS ARE NUMBERED WEST TO EAST. SEE GENERAL PLAN FOR FURTHER DETAILS.

INDICATES APPROXIMATE CONCRETE PATCHING LIMITS & LOCATIONS

2 / 3

NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION EXISTING SUBSTRUCTURE REPAIR DETAILS MP 6.90 - WHITE BRIDGE ROAD (C.R. 7.75) OVER OHIO TURNPIKE			
		DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429	
DESIGNED: NBL	CHECKED: AEH	DATE: 6/6/12	
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 32 OF 69			

PATCHING CONCRETE PARAPETS	
RIGHT (EAST) PARAPET	
CONCRETE PATCH ID	AREA (SQ. FT.)
P-R-0-1	5.5
P-R-0-2	1.0
SUB-TOTAL	6.5
TOTALS CARRIED TO SHEET 63/69	10



NOTES & LEGEND:

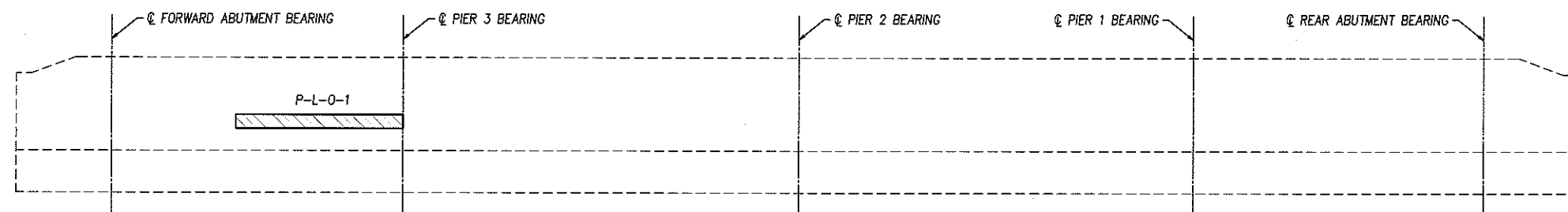
- THE PARAPET UNITS SHOWN ARE TO BE REPAIRED USING THE METHODS AND MATERIALS SPECIFIED BY SP 519 AND SEALED PER SP 536. SEE GENERAL NOTES ON SHEET 18 OF 69.

 - INDICATES APPROXIMATE CONCRETE PATCHING LIMITS

- X-Y-Z-#
P = PATCH REPAIR
L = LEFT PARAPET
R = RIGHT PARAPET
I = INSIDE FACE
O = OUTSIDE FACE
I.D. NUMBER

3 / 3

NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION			
EXISTING PARAPET REPAIR DETAILS			
MP 9.00 – FARMER CENTER ROAD (C.R. 10) OVER OHIO TURNPIKE			
 DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429			
DESIGNED: NBL	CHECKED: MDM	DATE: 6/14/12	
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN	
CONTRACT 43-12-03 SHEET 39 OF 69			



PARAPET PATCHING DETAILS – OUTSIDE FACE OF LEFT (WEST) PARAPET
(NOT TO SCALE)

PATCHING CONCRETE PARAPETS	
LEFT (WEST) PARAPET	
CONCRETE PATCH ID	AREA (SQ. FT.)
P-L-O-1	6.0
SUB-TOTAL	6.0
TOTALS CARRIED TO SHEET 63/69	10

NOTES & LEGEND:

- THE PARAPET UNITS SHOWN ARE TO BE REPAIRED USING THE METHODS AND MATERIALS SPECIFIED BY SP 519 AND SEALED PER SP 536. SEE GENERAL NOTES ON SHEET 18 OF 69.

 - INDICATES APPROXIMATE CONCRETE PATCHING LIMITS

- X-Y-Z-#
P = PATCH REPAIR
L = LEFT PARAPET
R = RIGHT PARAPET
I = INSIDE FACE
O = OUTSIDE FACE
I.D. NUMBER

3 / 5

NO.		REVISIONS		BY	DATE
OHIO TURNPIKE COMMISSION					
EXISTING PARAPET REPAIR DETAILS					
MP 13.20 – STATE ROUTE 15 OVER OHIO TURNPIKE					
		DGL CONSULTING ENGINEERS, LLC 3455 Briarfield Blvd. Suite E Maumee, OH 43537 Ph 419.535.1015 • Fax 419.535.1429			
DESIGNED: NBL	CHECKED: MDM	DATE: 6/14/12			
DRAWN: NBL	IN CHARGE: AEH	SCALE: AS SHOWN			
CONTRACT 43-12-03 SHEET 50 OF 69					

