

08350_GN001.dwg; 10/13/20 - 10:37am

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

DOMINION ENERGY OHIO
ATTN: 2ND FLOOR RELOCATION DESIGN
320 SPRINGSIDE DR, SUITE 320
AKRON, OH 44333
EMAIL: RELOCATION@DOMINIONENERGY.COM
PH: (330) 664-2409
FAX: (888) 504-0126

CITY OF YOUNGSTOWN
WATER DEPARTMENT
160 N. WEST AVENUE
YOUNGSTOWN, OH 44502
PH: (330) 742-8760
FAX: (330) 742-8763

OHIO EDISON
730 SOUTH AVENUE
YOUNGSTOWN, OH 44502
PH: (330) 740-7655

AT&T
50 W. BOWER ST, 4TH FLOOR
AKRON, OH 44308
PH: (330) 324-8557

ODOT - DISTRICT 4 TRAFFIC
2088 S. ARLINGTON ROAD
AKRON, OH 44306
PH: (330) 786-3100

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
682 PROSPECT ST
BEREA, OH 44017
PH: (440) 234-2081

202 - GUARDRAIL REMOVED FOR REUSE

EXISTING GUARDRAIL IMPACTED BY TEMPORARY PAVEMENT IS TO BE REMOVED FOR REUSE AND PLACED BACK TO ITS ORIGINAL LOCATION AFTER REMOVAL OF TEMPORARY PAVEMENT. SEE MAINTENANCE OF TRAFFIC SHEETS FOR DETAILS ON TEMPORARY PAVEMENT DESIGN.

THE LIMITS OF GUARDRAIL TO BE REMOVED FOR REUSE ARE AS FOLLOWS:

I-75 EASTBOUND:
STA. 297+15 TO STA 312+32, RT = 1517 FT
STA. 323+46 TO STA 337+55, RT = 1409 FT

I-75 WESTBOUND:
STA. 323+37 TO STA 324+85, LT = 148 FT

ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NEEDED TO COMPLETE THE ABOVE MENTIONED WORK SHALL BE INCLUDED IN THE UNIT BID PRICE PER FOOT FOR ITEM 202 - GUARDRAIL REMOVED FOR REUSE, 3074 FT

LORDSTOWN SLAG

THE CONTRACTOR SHALL BE AWARE THAT SOLIDIFIED SLAG MAY BE ENCOUNTERED IN THE SUBGRADE, WITHIN THE PROJECT LIMITS, DURING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL PLAN ITS WORK ACCORDINGLY AND NO ADDITIONAL COMPENSATION SHALL BE GRANTED. ALL SLAG SHALL BE DISPOSED OF IN ACCORDANCE WITH SP 105.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON OHIO TURNPIKE PROJECTS. SEE THIS SHEET FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: GEOID 12 B

REFERENCE MONUMENT/HEIGHT: GP3/1044.33

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE, NORTH ZONE (3401)
ORIGIN OF SCALE (X,Y) - EASTING (X): 0 NORTHING (Y): 0
COMBINED SCALE FACTOR: 0.99989471

SURVEY POINT USED FOR COMPUTATION OF AVERAGE COMBINED SCALE FACTOR: GP2

POSITIONING ON TYPE B MONUMENTS ESTABLISHED BY GPS-RTK METHODS REFERENCED TO THE ODOT VRS GNSS. THE COMBINED SCALE FACTOR WAS DETERMINED BY NGS OPUS-RS SOLUTION 11/13/2018.

SURVEY AND MAPPING ON OHIO STATE PLANE, NAD83(2011) GRID COORDINATES IN U.S. SURVEY FEET, COMBINED SCALE FACTOR ESTABLISHED FOR USE IN SCALING GROUND DISTANCES TO THE GRID.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

ALL GUARDRAIL TRANSITIONS PER ODOT STANDARD CONSTRUCTION DETAIL MGS-4.3.

5105

PROJECT 43-20-03
DATE: 8/01/19

GENERAL NOTES

DESIGNED
JAP
DRAWN
JDK

CHECKED
HRB
IN CHARGE
HRB

NO.
1
-
-

REVISIONS
ADDENDUM 7
-
-

BY DATE
JAP 10/20
-
-

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

OHIO TURNPIKE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

OHIO TURNPIKE

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GENERAL SUMMARY

ITEM NO.	QUANTITY	UNIT	ITEM DESCRIPTION
GENERAL			
IB.ART.6	1	LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND
SP 614	1	LUMP	MAINTAINING TRAFFIC
SP 619	1	LUMP	FIELD OFFICE
SP 623	1	LUMP	CONSTRUCTION LAYOUT SURVEY
624	1	LUMP	MOBILIZATION
MAINTENANCE OF TRAFFIC			
202	10	FOOT	PIPE REMOVED, 24" AND UNDER
611	2	EACH	CATCH BASIN, NO. 2-2B
611	42	FOOT	12" CONDUIT, TYPE B
614	600	DAYS	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN
614	10	CU. YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
614	6	EACH	WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL)
614	228	EACH	BARRIER REFLECTOR, TYPE B
614	228	EACH	OBJECT MARKER, TWO-WAY
614	0.68	MILE	WORK ZONE LANE LINE, CLASS I, 642 PAINT (6")
614	1.36	MILE	WORK ZONE EDGE LINE, CLASS I, 642 PAINT (6")
614	12,620	FOOT	WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT (8")
614	4.78	MILE	WORK ZONE EDGE LINE, CLASS I, 642 PAINT (8")
614	5	EACH	REPLACEMENT SIGN
SP 614	8,376	HOURL	ZONE PERSON
SP 614C	14.00	MILE	REMOVAL OF PAVEMENT MARKING
615	1	LUMP	ROADS FOR MAINTAINING TRAFFIC
615	15,203	SQ. YD.	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A
616	50	MGAL	WATER
SP 621	20	EACH	REPLACEMENT PRISMATIC RETRO-REFLECTOR
SP 622	1	LUMP	PORTABLE BARRIER (WITHOUT GLARE SCREEN)
SP 622	100	FOOT	PORTABLE BARRIER (WITHOUT GLARE SCREEN)
SP 622	1	LUMP	PORTABLE BARRIER, BRIDGE MOUNTED, AS PER PLAN
SP 626A	5,432	EACH	CONSTRUCTION ZONE MARKER
630	16	SQ. FT.	SIGNING MISC.: ADDITIONAL SIGNS, GROUND MOUNTED, AS DIRECTED BY THE ENGINEER
630	4	EACH	SIGNING MISC.: LOW CLEARANCE SIGN
SPECIAL	2	EACH	SECURING MANHOLE LID
SPECIAL	2.39	MILE	SONIC MAP ALERT PATTERN (SNAPS)
EROSION CONTROL			
SP 113	1	LUMP	SWP3 MANAGEMENT
832	1	LUMP	STORM WATER POLLUTION PREVENTION PLAN
832	5,000	EACH	EROSION CONTROL

ITEM NO.	QUANTITY	UNIT	ITEM DESCRIPTION
ROADWAY			
202	1,316	SQ. YD.	APPROACH SLAB REMOVED
202	733	SQ. YD.	PAVEMENT REMOVED
202	5,035	SQ. YD.	PAVEMENT REMOVED, ASPHALT
202	521	FOOT	CONCRETE BARRIER REMOVED
202	1,000	FOOT	CURB REMOVED
202	2,455	FOOT	GUARDRAIL REMOVED
202	3074	FOOT	GUARDRAIL REMOVED FOR REUSE
202	12	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
202	7	EACH	CATCH BASIN REMOVED
202	329	FOOT	PIPE REMOVED, 24" AND UNDER
203	472	CU. YD.	EXCAVATION
203	1,304	CU. YD.	EMBANKMENT
204	6,926	SQ. YD.	SUBGRADE COMPACTION
204	51	CU. YD.	GRANULAR MATERIAL, TYPE B
SP 302	2,136	CU. YD.	ASPHALT CONCRETE BASE, PG64-22 (CONTRACTOR TO PLACE IN TWO(2) EQUAL LIFTS)
SP 304	2,078	CU. YD.	AGGREGATE BASE
SP 402	307	CU. YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, PG70-22 (FR)
SP 404	219	CU. YD.	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG70-22 (FR)
407	755	GAL	NON-TRACKING TACK COAT
526	1,205	SQ. YD.	REINFORCED CONCRETE APPROACH SLABS (T=12")
602	1	CU. YD.	CONCRETE MASONRY
SP605	2,478	FOOT	6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP
SP605	2,615	FOOT	6" BASE PIPE UNDERDRAIN
606	1,741	FOOT	GUARDRAIL, TYPE MGS
606	2	EACH	ANCHOR ASSEMBLY, MGS TYPE T
606	3	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1
606	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2
609	1,180	FOOT	ASPHALT CONCRETE CURB, TYPE 1
611	330	FOOT	12" CONDUIT, TYPE B
611	205	FOOT	15" CONDUIT, TYPE B
611	93	FOOT	15" CONDUIT, BORED OR JACKED
611	1	EACH	INLET NO. 3, FOR SINGLE SLOPE BARRIER, TYPE D
SP 611	1	EACH	CATCH BASIN, NO. CB-1
SP 611	1	EACH	CATCH BASIN, RECONSTRUCTED TO GRADE, LESS THAN 4"
SP 611	4	EACH	CATCH BASIN, RECONSTRUCTED TO GRADE, BETWEEN 4" AND 12"
SP 611	1	EACH	CATCH BASIN, RECONSTRUCTED TO GRADE, GREATER THAN 12"
SP 611	4	EACH	INLET NO I-3C50, DOUBLE GRATE
SP 621	16	EACH	RAISED PAVEMENT MARKER
622	285	FOOT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C50, AS PER PLAN
622	1	EACH	CONCRETE BARRIER END SECTION, TYPE C1
622	305	FOOT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D
642	4.30	MILE	EDGE LINE, 6", TYPE 1
642	2.15	MILE	LANE LINE, 6", TYPE 1

PROJECT 43-20-03

DATE: 8/01/19

21

105

DESIGN AGENCY

ms consultants, inc.

2221 Schrock Road

Columbus, Ohio 43229

GENERAL SUMMARY

GENERAL SUMMARY

GENERAL SUMMARY

REVISED

ADDENDUM 4

ADDENDUM 5

ADDENDUM 7

BY DATE

JAP 10/20

JAP 10/20

JAP 10/20

CHECKED

HRB

IN CHARGE

HRB

DESIGNED

JAP

DRAWN

JDK

NO.

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3

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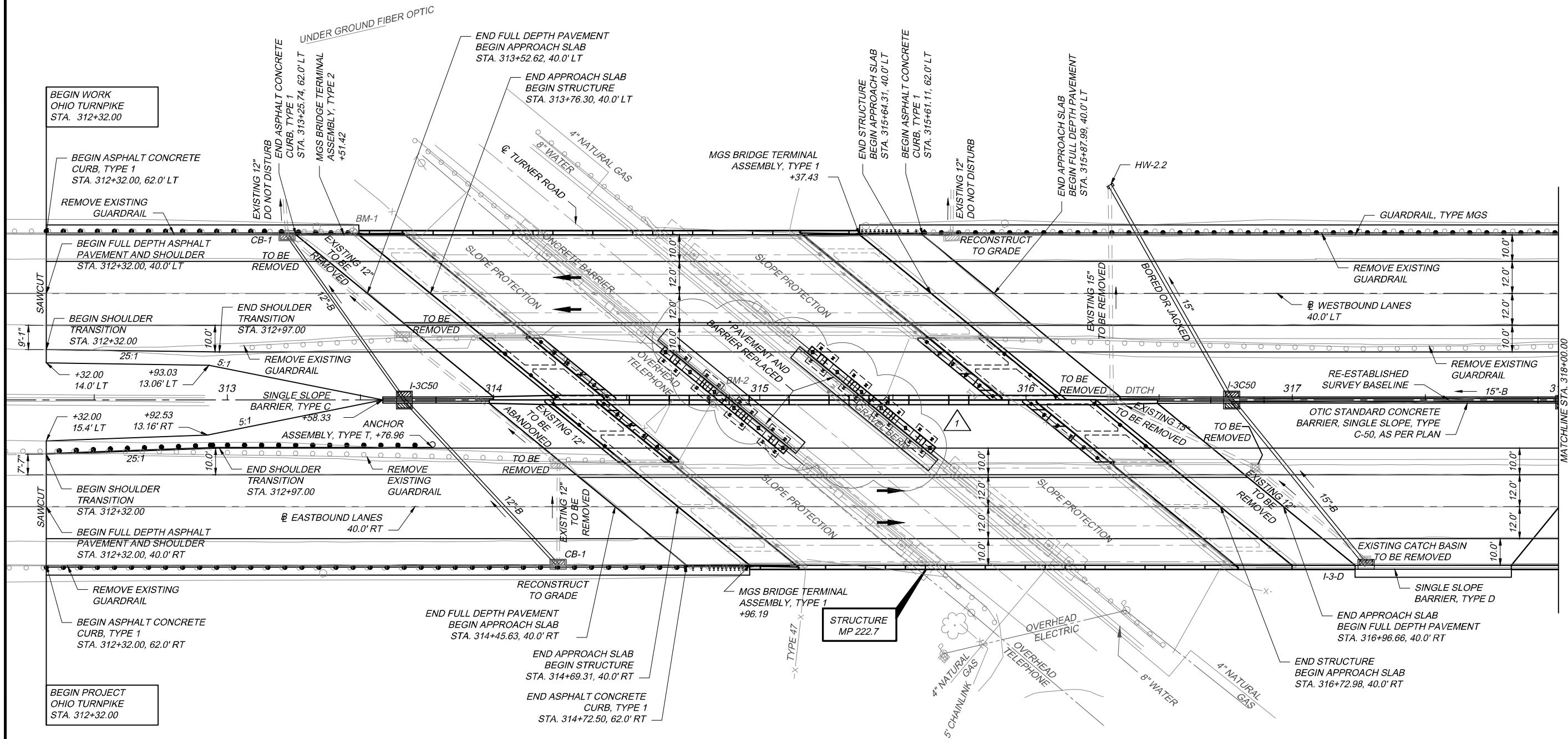
OHIO TURNPIKE

OHIO TURNPIKE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

* EXISTING PAVEMENT AND BARRIER AT PROPOSED
PIER FOOTINGS TO BE REMOVED AND REPLACED.
FULL DEPTH PAVEMENT TO BE PLACED AT FACE OF
SINGLE SLOPE BARRIER, TYPE D WITH COMPACTED
AGGREGATE BASE PLACED BELOW BARRIER.

2



PROJECT 43-20-03

DATE: 07/2019

ROADWAY PLAN
STA. 312+32.00 TO STA. 318+00.00

DESIGNED	CHECKED	NO.	REVISED	BY	DATE
JAP	HRB	1	ADDENDUM 5	JAP	10/20
JDK	HRB	2	ADDENDUM 7	JAP	10/20

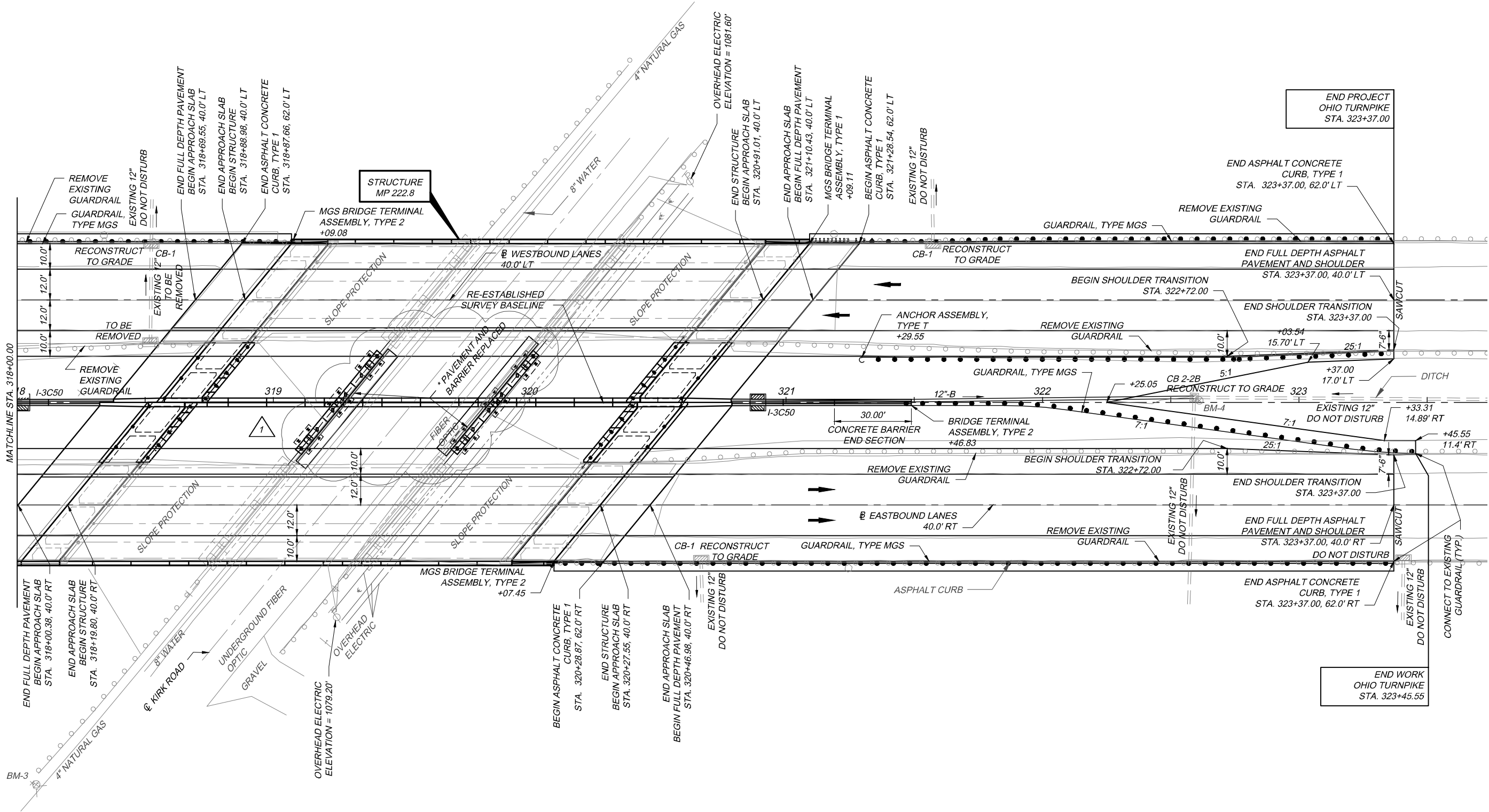
DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

23
105

OHIO
TURNPIKE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

OHIO
TURNPIKE

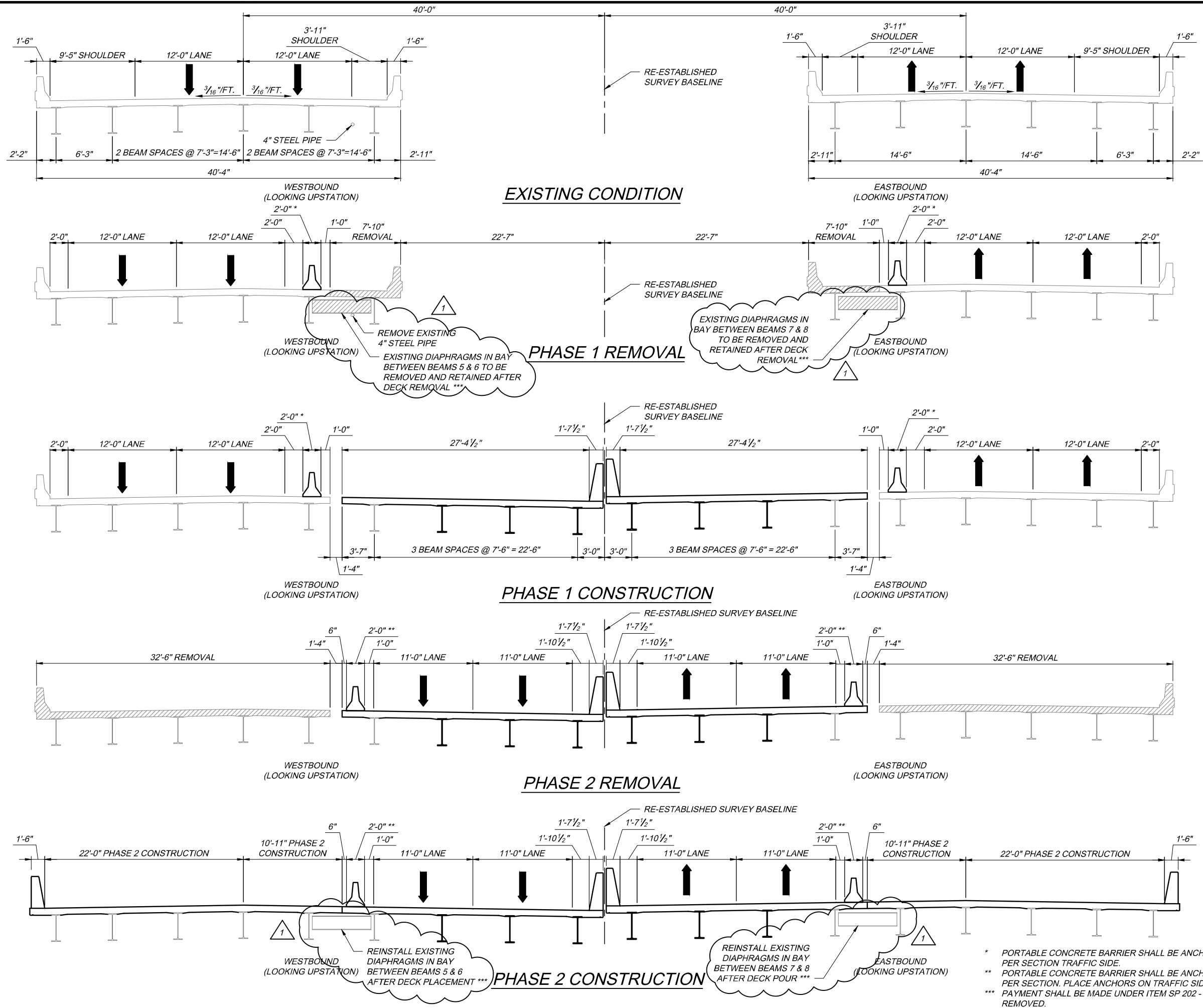


* EXISTING PAVEMENT AND BARRIER AT PROPOSED PIER FOOTINGS TO BE REMOVED AND REPLACED. FULL DEPTH PAVEMENT TO BE PLACED AT FACE OF SINGLE SLOPE BARRIER, TYPE D WITH COMPACTED AGGREGATE BASE PLACED BELOW BARRIER.

2

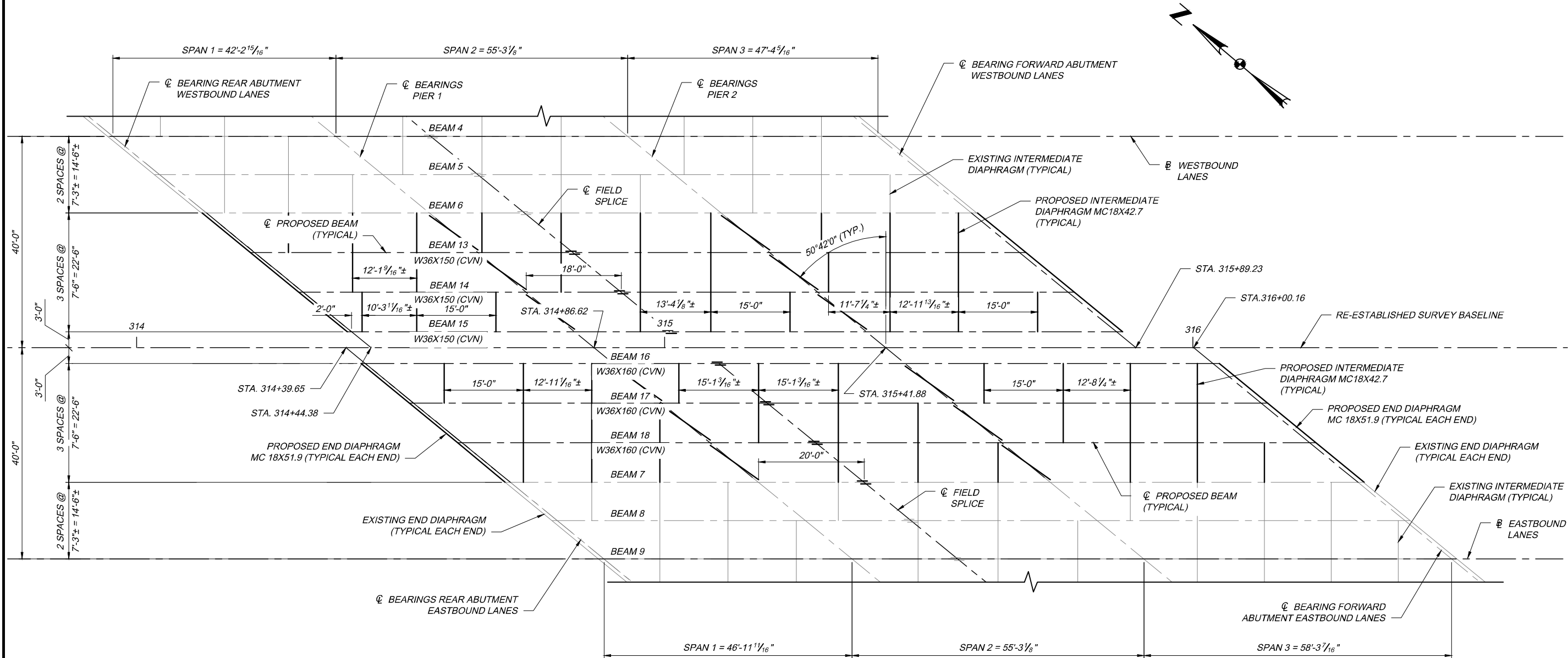
<div><div>24</div><div>105</div></div>	<div>PROJECT 43-20-03</div> <div>DATE: 07/2019</div>	<div>ROADWAY PLAN</div> <div>STA. 318+00 TO STA. 323+45.55</div>	DESIGNED	CHECKED	NO.	REVISIONS	BY	DATE	<div>DESIGN AGENCY</div> <div>ms consultants, inc.</div> <div>2221 Schrock Road</div> <div>Columbus, Ohio 43229</div>
			JAP	HRB	1	ADDENDUM 5	JAP	10/20	
			DRAWN	IN CHARGE	2	ADDENDUM 7	JAP	10/20	
			JDK	HRB	-	-	-	-	

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<div><div>46</div><div>105</div></div>		7 / 30	PROJECT 43-20-03		PHASING TYPICAL SECTIONS OHIO TURNPIKE OVER TURNER ROAD				DESIGNED JP		CHECKED SRM		NO. 1		REVISIONS ADDENDUM 7		BY DATE SRM 10/20		<div><div>1</div><div>2</div><div>3</div><div>4</div></div>		DESIGN AGENCY ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229			
			DATE: 08/07/19		M.P. 222.7				DRAWN JP		IN CHARGE GLG													
									MAHONING COUNTY															
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION																								
OHIO TURNPIKE		OHIO TURNPIKE																						

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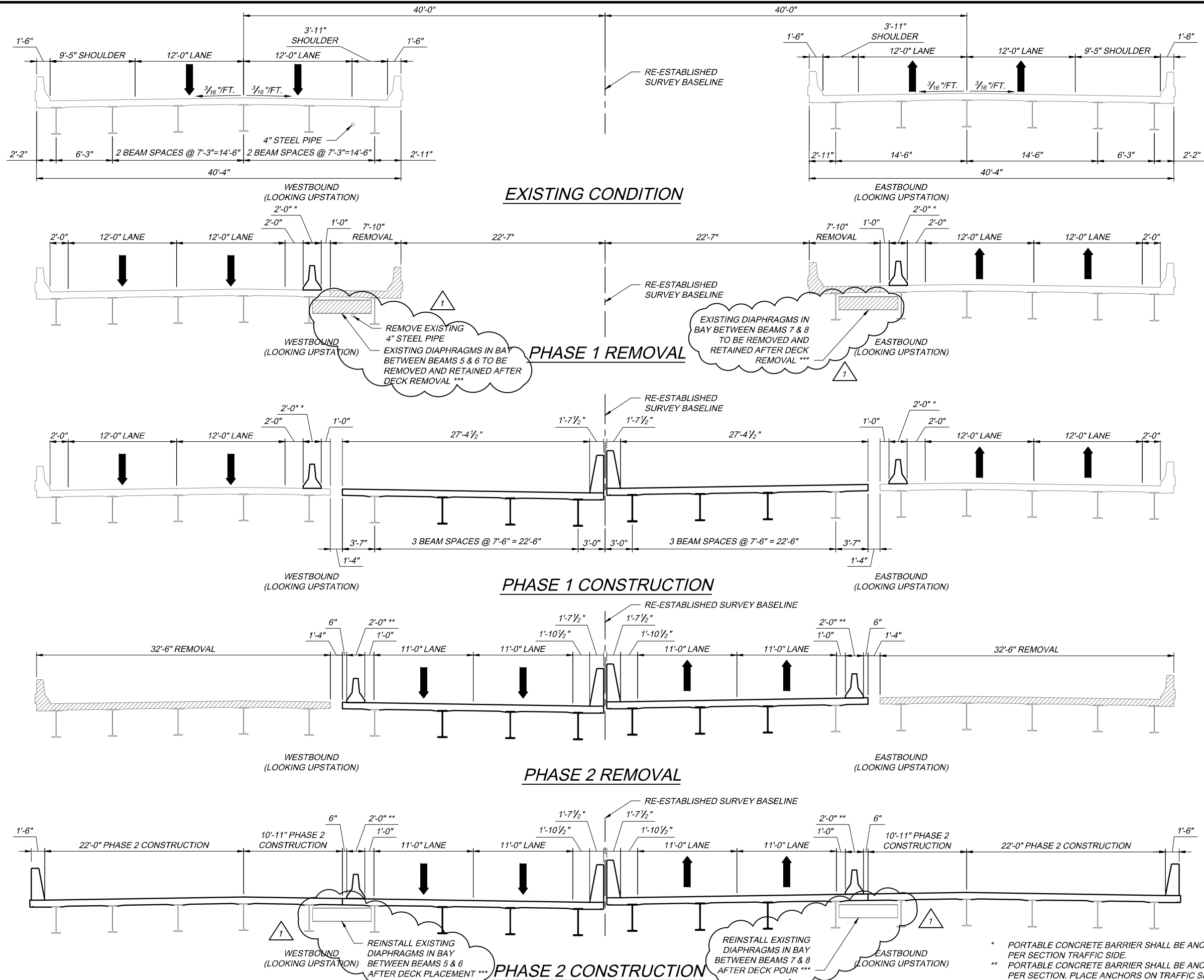
PARTIAL FRAMING PLAN

NOTES:

- FOR SUPERSTRUCTURE DETAILS, SEE SHEET 21 of 30.
- FOR DIAPHRAGM CONNECTION DETAILS, SEE SHEET 22 of 30.
- FOR CAMBER DIAGRAM, SEE SHEET 23 of 30.
- ALL EXISTING STRUCTURAL STEEL INCLUDING BEAMS, DIAPHRAGMS AND BEARINGS SHALL BE BLAST CLEANED AND PAINTED IN ACCORDANCE WITH SP 514A. ALL NEW STRUCTURAL STEEL, INCLUDING BEAMS, DIAPHRAGMS AND BEARINGS SHALL BE PAINTED IN ACCORDANCE WITH SP 514A, WHICH SHALL INCLUDE SHOP CLEANING AND A SHOP APPLICATION OF A PRIMER COAT AND FIELD TOUCHUP AND FIELD APPLICATION OF AN INTERMEDIATE AND FINISH COAT.
- FOR BEARING DETAILS, SEE SHEETS 1-6 of 6.
- PROPOSED DIAPHRAGMS TO MATCH EXISTING DIAPHRAGM LOCATIONS UNLESS NOTED ON FRAMING PLAN.
- EXISTING DIAPHRAGMS BETWEEN BEAMS 5 & 6 AND 7 & 8 SHALL BE REMOVED AND RETAINED DURING PHASE 1 REMOVAL. EXISTING DIAPHRAGMS BETWEEN BEAMS 5 & 6 AND 7 & 8 SHALL NOT BE REINSTALLED UNTIL AFTER THE PHASE 2 CONSTRUCTION DECK CONCRETE HAS BEEN PLACED. THE EXISTING RIVETED CONNECTION SHALL BE REPLACED WITH A325 TYPE 3 HIGH STRENGTH BOLTS TO MATCH THE EXISTING HOLES. PAYMENT SHALL BE MADE UNDER ITEM SP 202 - PORTIONS OF STRUCTURE REMOVED.

PROJECT 43-20-03	DATE: 08/07/19	M.P. 222.7	OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION	DESIGN AGENCY ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229	BY	DATE	REVISIONS	NO.	CHECKED	DESIGNED
					SRM	10/20	ADDENDUM 7	1	SRM	DFK
									IN CHARGE	DRAWN
									GLG	KRM
20	30	59	105							

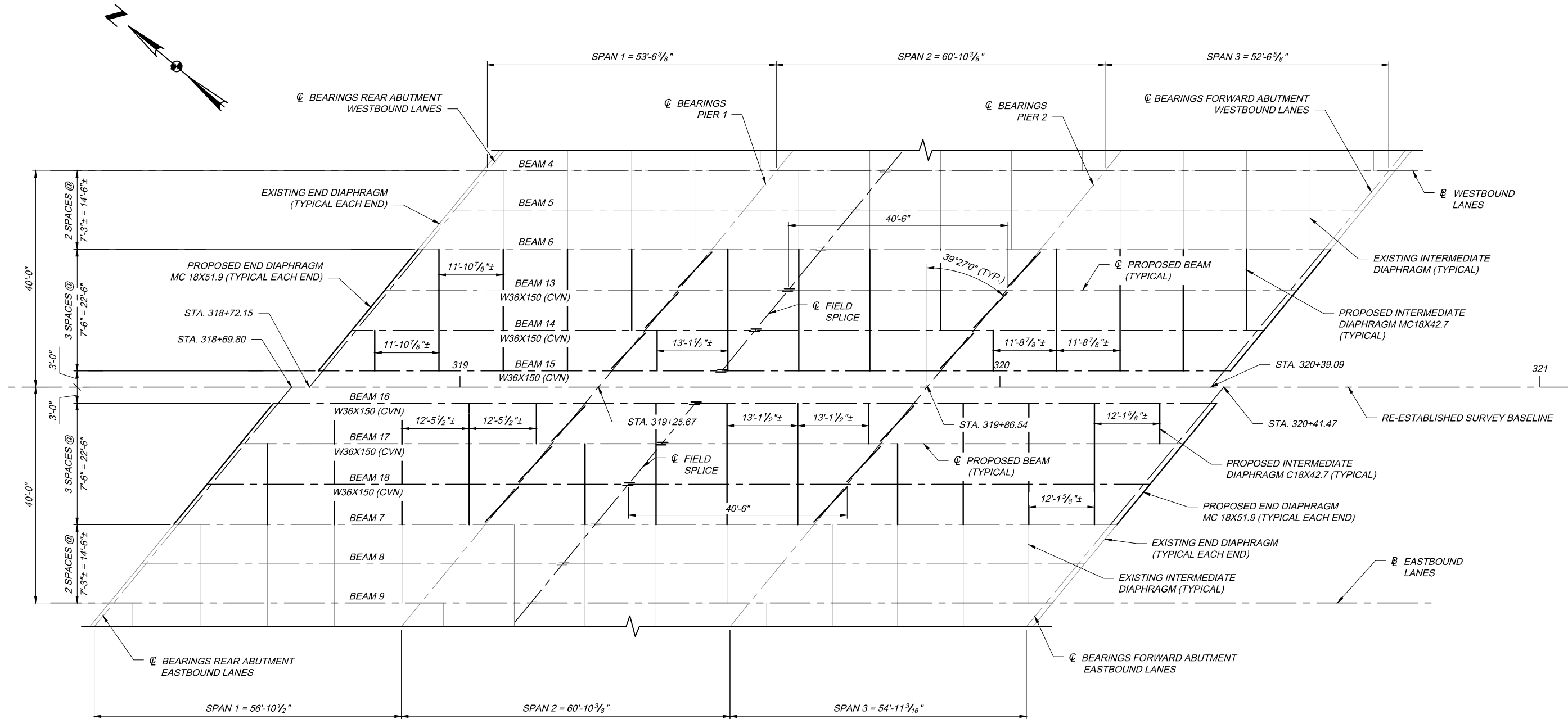
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* PORTABLE CONCRETE BARRIER SHALL BE ANCHORED WITH 3 ANCHORS PER SECTION TRAFFIC SIDE.
** PORTABLE CONCRETE BARRIER SHALL BE ANCHORED WITH 6 ANCHORS PER SECTION. PLACE ANCHORS ON TRAFFIC SIDE FIRST.
*** PAYMENT SHALL BE MADE UNDER ITEM SP 202 - PORTIONS OF STRUCTURE REMOVED.

<div><div>76</div><div>105</div></div>		7 / 29	PROJECT 43-20-03	PHASING TYPICAL SECTIONS OHIO TURNPIKE OVER KIRK ROAD										MAHONING COUNTY M.P. 222.8									
		DATE: 08/01/19		DESIGNED		CHECKED		NO.		REVISIONS		BY		DATE		DESIGN AGENCY							
				JP		SRM		1		ADDENDUM 7		SRM		10/20		ms consultants, inc.							
				DRAWN		IN CHARGE		-		-		-		-		2221 Schrock Road Columbus, Ohio 43229							
				JP		GI G																	

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PARTIAL FRAMING PLAN

NOTES:

1. FOR SUPERSTRUCTURE DETAILS, SEE SHEET 21 OF 29.
2. FOR DIAPHRAGM CONNECTION DETAILS, SEE SHEET 22 OF 29..
3. FOR CAMBER DIAGRAM, SEE SHEET 23 OF 29..
4. ALL EXISTING STRUCTURAL STEEL INCLUDING BEAMS, DIAPHRAGMS AND BEARINGS SHALL BE BLAST CLEANED AND PAINTED IN ACCORDANCE WITH SP 514A. ALL NEW STRUCTURAL STEEL, INCLUDING BEAMS, DIAPHRAGMS AND BEARINGS SHALL BE PAINTED IN ACCORDANCE WITH SP 514A, WHICH SHALL INCLUDE SHOP CLEANING AND A SHOP APPLICATION OF A PRIMER COAT AND FIELD TOUCHUP AND FIELD APPLICATION OF AN INTERMEDIATE AND FINISH COAT.
5. FOR BEARING DETAILS, SEE BEARING SHEETS 1-6 OF 6.
6. PROPOSED DIAPHRAGMS TO MATCH EXISTING DIAPHRAGM LOCATIONS, UNLESS NOTED ON FRAMING PLAN.
7. EXISTING DIAPHRAGMS BETWEEN BEAMS 5 & 6 AND 7 & 8 SHALL BE REMOVED AND RETAINED DURING PHASE 1 REMOVAL. EXISTING DIAPHRAGMS BETWEEN BEAMS 5 & 6 AND 7 & 8 SHALL NOT BE REINSTALLED UNTIL AFTER THE PHASE 2 CONSTRUCTION DECK CONCRETE HAS BEEN PLACED. THE EXISTING RIVETED CONNECTION SHALL BE REPLACED WITH A325 TYPE 3 HIGH STRENGTH BOLTS TO MATCH THE EXISTING HOLES. PAYMENT SHALL BE MADE UNDER ITEM SP 202 - PORTIONS OF STRUCTURE REMOVED.

DESIGN AGENCY ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229		BY DATE SRM 10/20		REVISIONS ADDENDUM 7		NO. 1		CHECKED SRM		DESIGNED DFK		FRAMING PLAN OHIO TURNPIKE OVER KIRK ROAD		MAHONING COUNTY		M.P. 222.8		PROJECT 43-20-03		DATE: 08/01/19		20 / 29		89 / 105		OHIO TURNPIKE	
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION																											