

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE



PLAN PREPARED BY:

ODOT DISTRICT 4, CAPITAL PLANNING 2088 S. ARLINGTON ROAD AKRON, OHIO 44306

ENGINEERING ASSOCIATES INC. 1935 EAGLE PASS WOOSTER, OHIO 44691

	SPECIAL PROVISIONS	SUPPLEMENTAL SPECIFICATIONS		DRAWINGS						
	ASBESTOS	800-2023 7/19/24	Ś		1/17/20	MT-105.10	4/17/20	RM-4.2	1/19/24	BP-3.1
	REPORT 5/6/22	821 4/30/12	(7/19/13	MT-110.10			7/19/13	BP-4.1
		832 7/19/24					7/19/19	MT-95.31	7/15/22	BP-5.1
ENGI	NATERWAY	872 1/21/22			1/20/23	TC-21.21	4/19/19	MT-95.32	7/19/24	BP-7.1
	PERMIT 8/8/24	874 4/17/20			10/18/13	TC-41.20	7/21/17	MT-95.50		
		875 1/18/19			10/18/13	TC-42.10	7/21/23	MT-96.11	7/17/20	DM-1.1
		921 7/19/24			10/18/13	TC-42.20	7/21/23	MT-96.20	1/18/13	DM-3.1
					10/18/13	TC-52.10	1/18/19	MT-96.26	1/15/16	DM-4.3
25					1/15/21	TC-52.20	4/19/19	MT-97.10	1/15/16	DM-4.4
E_(7/19/24	TC-61.30	1/20/17	MT-97.12		
					7/21/23	TC-64.10	4/19/19	MT-99.20	7/16/21	MGS-1.1
PO					1/17/14	TC-65.10	4/21/23	MT-101.60	1/19/18	MGS-2.1
PROCESS					1/19/24	TC-65.11	7/19/24	MT-101.70	7/19/19	MGS-2.4
<i>''</i> ,					4/21/23	TC-71.10	7/21/23	MT-101.75	7/19/13	MGS-4.2
					7/21/23	TC-74.10	7/17/20	MT-101.90	7/15/16	MGS-5.2
							4/19/19	MT-102.20	7/15/16	MGS-5.3

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

Removed City of Campbell portion

RESURFACING OF US 422 FROM SLM 7.58 TO 10.14 AND SR 616 FROM SLM 3.82 TO SLM 4.53 IN MAHONING COUNTY. INCLUDES REPLACEMENT OF ONE CULVERT STRUCTURE AND MINOR BRIDGE MAINTENANCE.

EARTH DISTURBED AREAS (RESURFACING)

PROJECT EARTH DISTURBED AREA (CULVERT REPLACEMENT): 0.47 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)

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

MAHONING COUNTY COITSVILLE TOWNSHIP

INDEX OF SHEETS:

HEET
L SECTIONS
AL NOTES
ENANCE OF TRAFFIC
AL SUMMARY
MMARIES
ND PROFILE
SECTIONS
TURE DETAILS
OF-WAY

P.2-P.4 P.5-P.8 P.9-P.19 P.20-P.21 P.22-P.29 P.30 P.31-P.35 P.36-P.40 *RW.1-RW.8*

P.1

Revised Date



NONE

E240(133)

FEDERAL PROJECT NUMBER

RAILROAD INVOLVEMENT

PROJECT DESCRIPTION

PROJECT EARTH DISTURBED AREA (RESURFACING): 0.22 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.25 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)

EARTH DISTURBED AREAS (STRUCTURE REPLACEMENT)

2023 SPECIFICATIONS

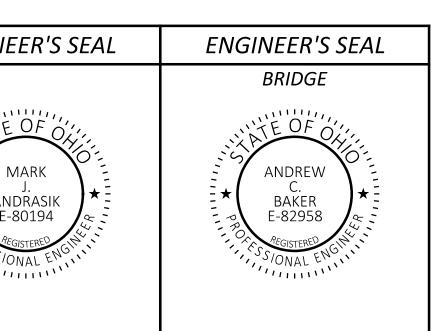
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

DISTRICT DEPUTY DIRECTOR

Arthur G. Noirot Jr., P.E. 04

DIRECTOR, DEPARTMENT OF TRANSPORTATION

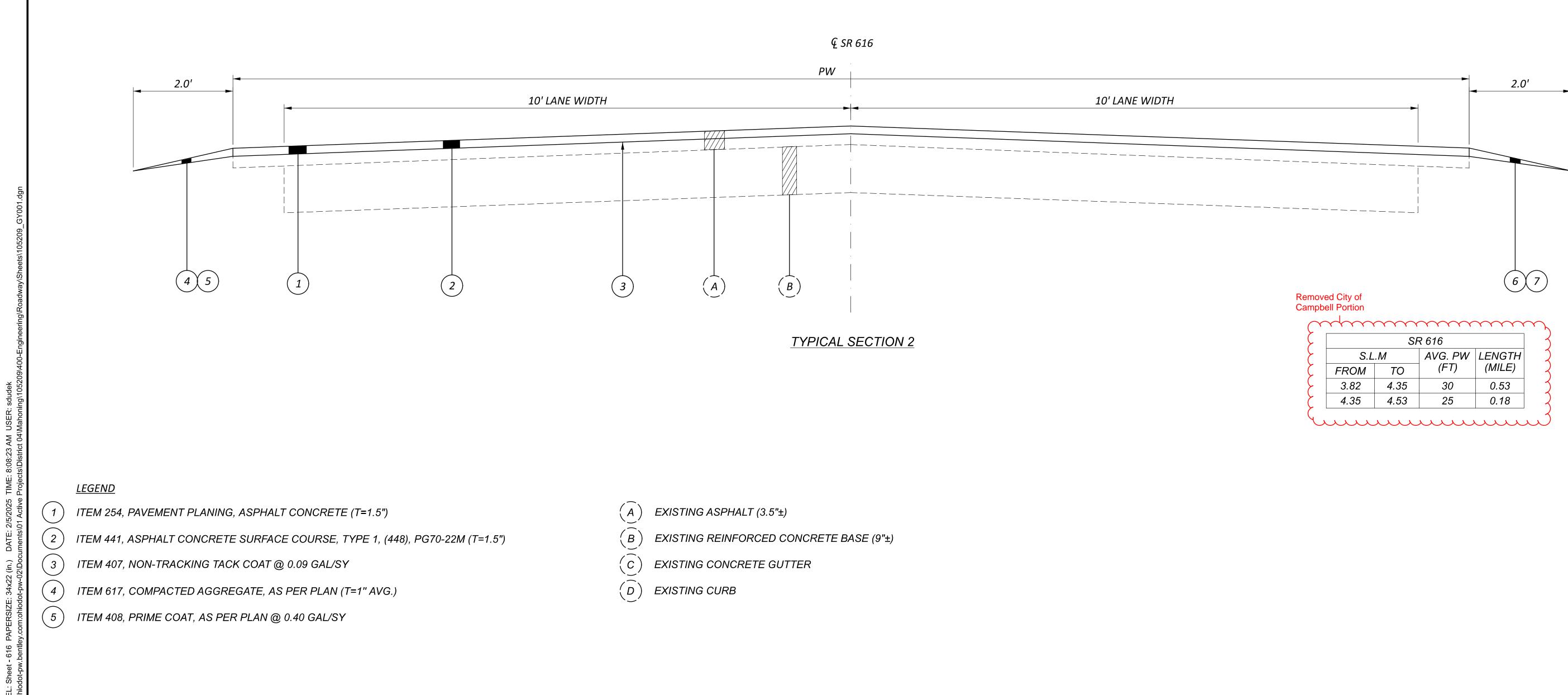
Pamela Bolatyn Pamela Boratyn



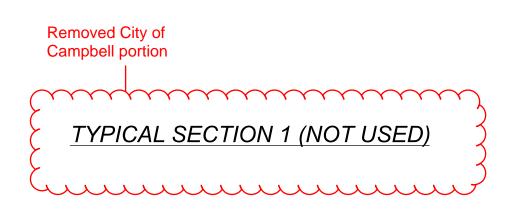
SHEET TITLE

ESIGN AGENCY





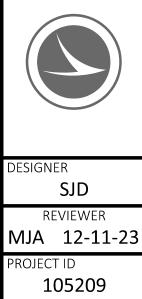
MAH-422/616-7.58/3.81



SR 616													
S.L	.M	AVG. PW	LENGTH										
FROM	ТО	(FT)	(MILE)										
3.82	4.35	30	0.53										
4.35	4.53	25	0.18										

SECTIONS TYPICAL

DESIGN AGENCY



SHEET TOTAL
P.2
40

UTILITIES

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH SECTIONS 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS:

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, OHIO811, THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEADQUARTERS (MICHELLE CHANEY AT 330-786-2267) AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN ALL AREAS.

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

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

AQUA OHIO (MAHONING COUNTY) ATTN: ZACH TALLMADGE 6650 SOUTH AVE. BOARDMAN, OH 44512 330-397-0776 814-490-5755 CELL ztallmadge@aquaamerica.com

<u>AT&T</u>

THE OHIO BELL TELEPHONE COMPANY ATTN: TORRICE ROBINSON 50 W. BOWERY ST., FLR 6 AKRON, OH 44308 330-384-9851 330-734-5117 CELL tr3463@att.com

DOMINION ENERGY OHIO

ATTN: MALLERIE STRASSER 320 SPRINGSIDE DRIVE AKRON. OH 44333 330-664-4601 330-472-4209 CELL Mallerie.Strasser@dominionenergy.com

MAHONING COUNTY SANITARY ENGINEER ATTN: PAT GINNETTI, P.E., P.S. 761 INDUSTRIAL ROAD YOUNGSTOWN, OH 44509 330-793-5514 EXT.: 8208 pginnetti@mahoningcountyoh.gov

ARMSTRONG CABLE ATTN: CRAIG NOEL 9328 WOODWORTH ROAD NORTH LIMA, OH 44452 330-953-0705 330-610-0170 CELL cnoel@agoc.com

DIAMOND ENERGY PARTNERS

ATTN: AMBER KLEESE *106 E. MARKET ST., FLR 2* WARREN, OH 44481 234-806-4185 amber@diamondoiltech.com melanie@diamondoiltech.com

OHIO EDISON ATTN: PHILLIP RAWSON 730 SOUTH AVENUE YOUNGSTOWN, OH 44502 724-255-1332 CELL prawson@firstenergycorp.com

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL

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

PROJECT CONTROL

POSITIONING METHOD: MONUMENT TYPE:

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88 GEOID: GEOID 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011) GRS80 ELLIPSOID: MAP PROJECTION: LAMBERT CONFORMAL CONIC COORDINATE SYSTEM: OHIO NORTH ZONE (3401) COMBINED SCALE FACTOR: 0.99988932 ORIGIN OF COORDINATE SYSTEM: EASTING (X): 0, NORTHING (Y): 0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

	PROJECT CONTROL														
POINT	ALIGNMENT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIP								
CP100	CLRW422S	46+53.81	42.61' RT.	524762.314	2505920.743	1118.03	SURVEY N								
CP50	CLRW422S	38+68.85	35.73' LT.	524818.042	2505133.860	1100.41	#5 REBAR SET W								
CP10	CLRW422S	30+79.99	34.16' LT.	524793.769	2504345.366	1095.54	#5 REBAR SET W								
BM4	CLRW422S	40+74.67	33.97' RT.	524754.284	2505341.598	1101.05	MAGNAIL SET IN S OF CULVERT								

-

3.8

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16

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MAH

POSITIONING ON ODOT PROJECTS. SEE THIS SHEET OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

STATIC R

IPTION NAIL SET W/ ODOT CAP W/ ODOT CAP SW WINGWALLL RT AT 8.35

Removed City of

Campbell Portion

ITEM SPECIAL - SURVEY CONTROL VERIFICATION

THE CONTRACTOR SHALL PERFORM THIS WORK TO VERIFY	INTE
THE PROVIDED SURVEY CONTROL. THE CONTRACTOR WILL	EDG
PERFORM THE VERIFICATION USING ONE OF THE TWO METHODS	OR I
BELOW DEPENDENT UPON THE CONTRACTOR'S CHOSEN MEANS OF	PAVE
SURVEY CONTROL TO BE USED ON THE PROJECT. THE WORK	THE
SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN	WITI
OHIO LICENSED SURVEYOR.	PAVE
	PAVE
1. IF USING GPS DEVICES TO ESTABLISH AND OR PROVIDE	DRA
SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY CONTROL	TRAI
a. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE	PRIN
PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.	INCL
b. PERFORM A SITE CALIBRATION UTILIZING THE AVAILABLE	
HORIZONTAL AND VERTICAL CONTROL POINTS PROVIDED	DRIN
IN THE PLAN.	
c. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSESD	THE
SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE	DIFF
OBSERVED DATA TO THE PLAN DATA ALONG WITH A	SURI
NARRATIVE DETAILING ANY DISCREPANCIES FOUND.	APP
2. IF USING CONVENTIONAL SURVEY INSTRUMENTATION TO	MIN
ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL	ROA
AND VERTICAL SURVEY CONTROL	SIDE
a. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE	COU
PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.	AND
b. LOCATE AND OBSERVE ANGLE AND DISTANCE TO ALL	
AVAILABLE HORIZONTAL CONTROL POINTS PROVIDE IN	IN TI
THE PLAN	WOF
c. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSED	CON
SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE	BEEI
OBSERVED DATA TO THE PLAN DATA ALONG WITH A	THE
NARRATIVE DETAILING ANY DISCREPANCIES FOUND.	CON
ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS	
NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN	PAVI
THE LUMP SUM BID ITEM.	

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.

PROFILE AND ALIGNMENT

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS.

PAVEMENT MARKING LANE WIDTHS

THE NORMAL LANE WIDTH FOR THE PAVEMENT MARKINGS ON THIS PROJECT SHALL BE AS FOLLOWS:

\mathcal{F}	ROUTE	S.L.M. TO S.L.M.	LANE WIDTH
8	SR 616	3.82 TO 4.53	10'
Lu	US 422	7.58 TO 10.14	12'

PAVEMENT MARKING DETAILS

THE PAVEMENT MARKING DETAIL SHEETS HAVE BEEN SUPPLIED AS REFERENCE DOCUMENTS FOR THIS PROJECT AND ARE AVAILABLE ON THE ODOT FTP SITE AT https://ftp.dot.state.oh.us/pub/contracts/Attach/ FOR THIS PROJECT. FOR ANY LOCATIONS THAT PAVEMENT MARKING DETAILS HAVE NOT BEEN MADE AVAILABLE TO THE CONTRACTOR, IT WILL BE THE CONTRACTORS RESPONSIBILITY TO PUT BACK NEW PAVEMENT MARKINGS IN THE ORIGINAL LOCATIONS.

INTERSECTIONS

TERSECTIONS WILL BE RESURFACED 10 FT. BEYOND THE GE LINE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER NINDICATED IN THE PLAN. INTERSECTIONS SHALL BE VED AFTER COMPLETION OF THE SURFACE COURSE OR WITH E MAINLINE PAVEMENT IF THIS CAN BE ACCOMPLISHED THOUT CHANGING THE VELOCITY AND DIRECTION OF THE VER. USE THE SAME ASPHALT CONCRETE AS THE MAINLINE VEMENT. A BUTT JOINT, AS PER STANDARD CONSTRUCTION AWING BP-3.1, SHALL BE USED TO PROVIDE A SMOOTH ANSITION TO THE EXISTING PAVEMENT. ANY GRADING OR IME NECESSARY TO ACCOMPLISH THIS WORK SHALL BE CLUDED IN THE COST OF THE ASPHALT SURFACE COURSE.

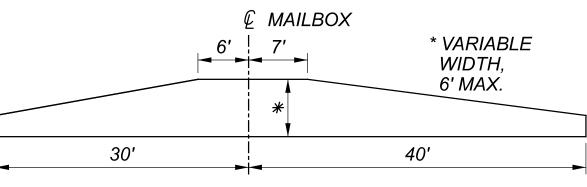
IVEWAYS

E CONTRACTOR WILL NOT BE PERMITTED TO LEAVE A FFERENCE IN ELEVATION BETWEEN THE MAINLINE ASPHALT RFACE COURSE AND THE EXISTING DRIVEWAYS. IF PROVED BY THE ENGINEER, AN ASPHALT WEDGE WITH A NIMUM WIDTH OF 2' MAY BE PLACED EITHER ON THE ADWAY SHOULDER OR DRIVEWAY DEPENDENT UPON WHICH DE IS HIGH. A QUANTITY OF MAINLINE SURFACE URSE ASPHALT HAS BEEN PROVIDED IN THE CALCULATIONS ID GENERAL SUMMARY TO PERFORM THIS ITEM OF WORK.

THE EVENT THAT THE ENGINEER DETERMINES ADDITIONAL ORK IS NECESSARY TO PROPERLY ADDRESS FIELD NDITIONS, AN ITEM FOR WEARING COURSE REMOVED HAS EN PROVIDED. THE REMOVAL DEPTH IS DEPENDENT UPON E ELEVATION DIFFERENCE AND ALLOW FOR 1"-2" OF MPACTED ASPHALT MATERIAL TO BE PLACED.

VED MAILBOX APPROACHES

ALL EXISTING MAIL BOX APPROACHES WILL BE PAVED WITH ASPHALT CONCRETE AS PER TYPICAL SHOWN OR AS NEAR AS PRACTICAL. AGGREGATE APPROACHES SHALL HAVE A 2 IN. MIN. THICKNESS; IMPROVED APPROACHES SHALL HAVE A 2 IN. MIN. THICKNESS. THE CONTRACTOR SHALL HAVE THE OPTION OF PAVING THE MAILBOX APPROACHES WITH EITHER THE PAVING OF THE DRIVEWAYS OR THE PAVING OF THE MAINLINE AND SHOULDERS. PAYMENT SHALL BE AS FOLLOWS:



- DIRECTION OF TRAFFIC

ITEM 408 - PRIME COAT, AS PER PLAN

APPLY "MC-70" AT A RATE OF 0.4 GALLONS PER SQUARE YARD, OR AS DETERMINED BY THE ENGINEER, TO THE COMPLETED COMPACTED AGGREGATE SHOULDER.

NOTES ENERAL ר)

ESIGN AGENCY



P.5 40

LINEAR GRADING (SR 616)

AREAS WHERE THE SHOULDER IS HIGHER THAN THE EDGE OF PAVEMENT WILL BE GRADED TO PROVIDE POSITIVE DRAINAGE. THIS WORK WILL ONLY BE PERFORMED IN AREAS NECESSARY AND WILL NOT BE PERFORMED ON THE ENTIRE PROJECT. AREAS FOR THE WORK WILL BE MARKED BY THE PROJECT ENGINEER. UNDER NO CIRCUMSTANCES WILL THIS WORK BE PERFORMED CONCURRENTLY WITH ANY OTHER OPERATION.

GRADING WILL BE ACCOMPLISHED BY THE REMOVAL OF MATERIAL TO PROVIDE A 0.08 POSITIVE SLOPE. THE GRADED AREAS WILL BE COMPACTED TO A SUFFICIENT DENSITY TO PREVENT EROSION UNTIL SEEDING AND MULCHING IS PERFORMED. ALL EXCESS MATERIAL WILL BE REMOVED FROM THE BERMS AND WILL BE DISPOSED OF Campbell Portion OFF THE PROJECT BY THE CONTRACTOR.

THE CONTRACTOR IS REQUIRED TO PLACE ITEM 617 WITHIN A PERIOD NOT TO EXCEED 7 DAYS. REFER TO THE AS PER PLAN NOTE FOR REQUIREMENTS.

EXPOSED EARTH OUTSIDE OF THE LIMITS OF ITEM 617 ARE REQUIRED TO BE SEEDED AND MULCHED WITHIN 7 DAYS OF PLACEMENT OF ITEM 617. PAYMENT FOR THIS WORK SHALL BE MADE UNDER ITEM 832.

THE QUANTITY OF ITEM 209 IS NOT PERMITED TO BE INCREASED. REDUCTIONS IN QUANTITIES ARE PERMITTED AS DETERMINED BY THE PROJECT ENGINEER.

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK WILL BE INCLUDED IN THE UNIT PRICE FOR THE PERTINENT BID ITEM. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY: 209, LINEAR GRADING, 38 STA.

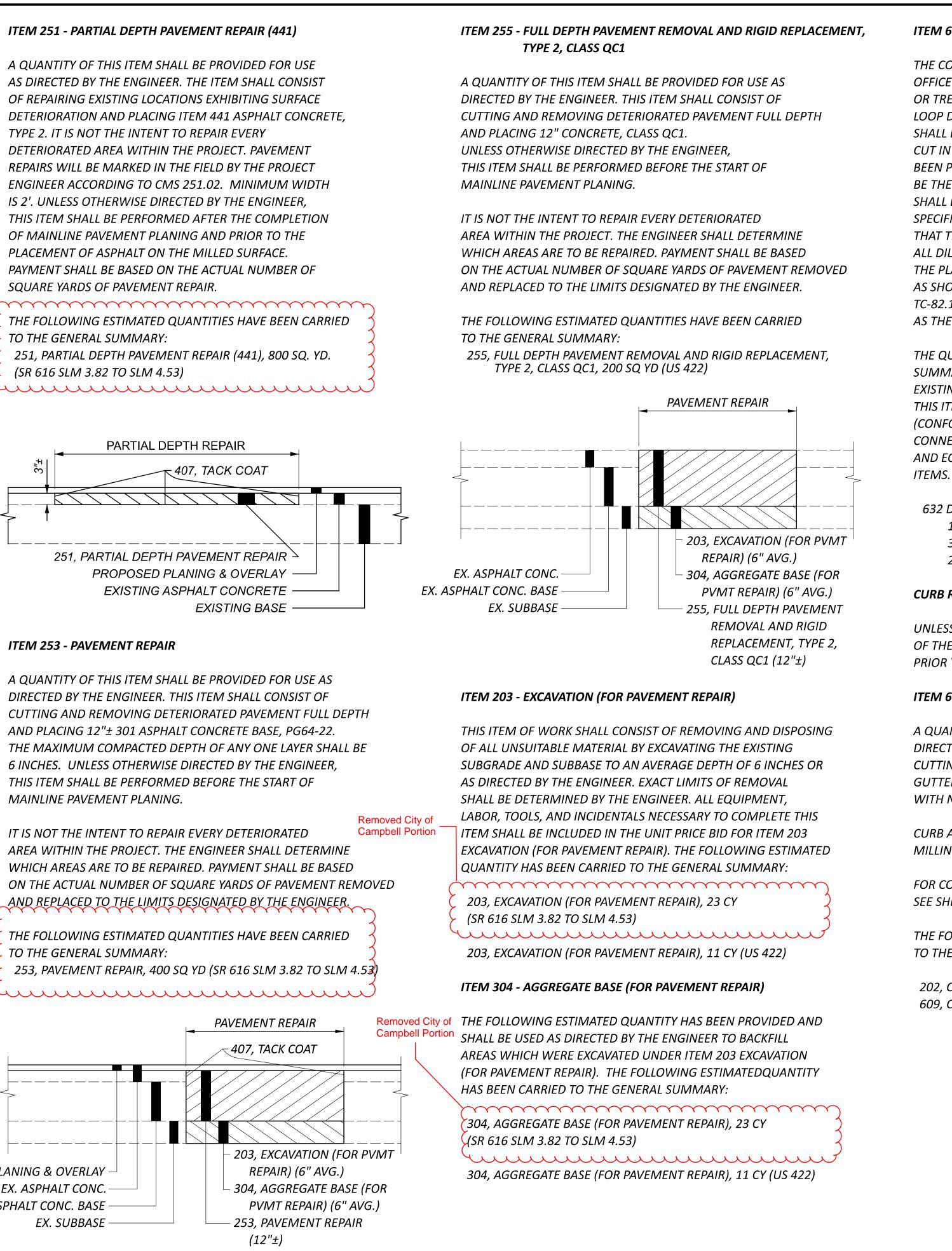
ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN

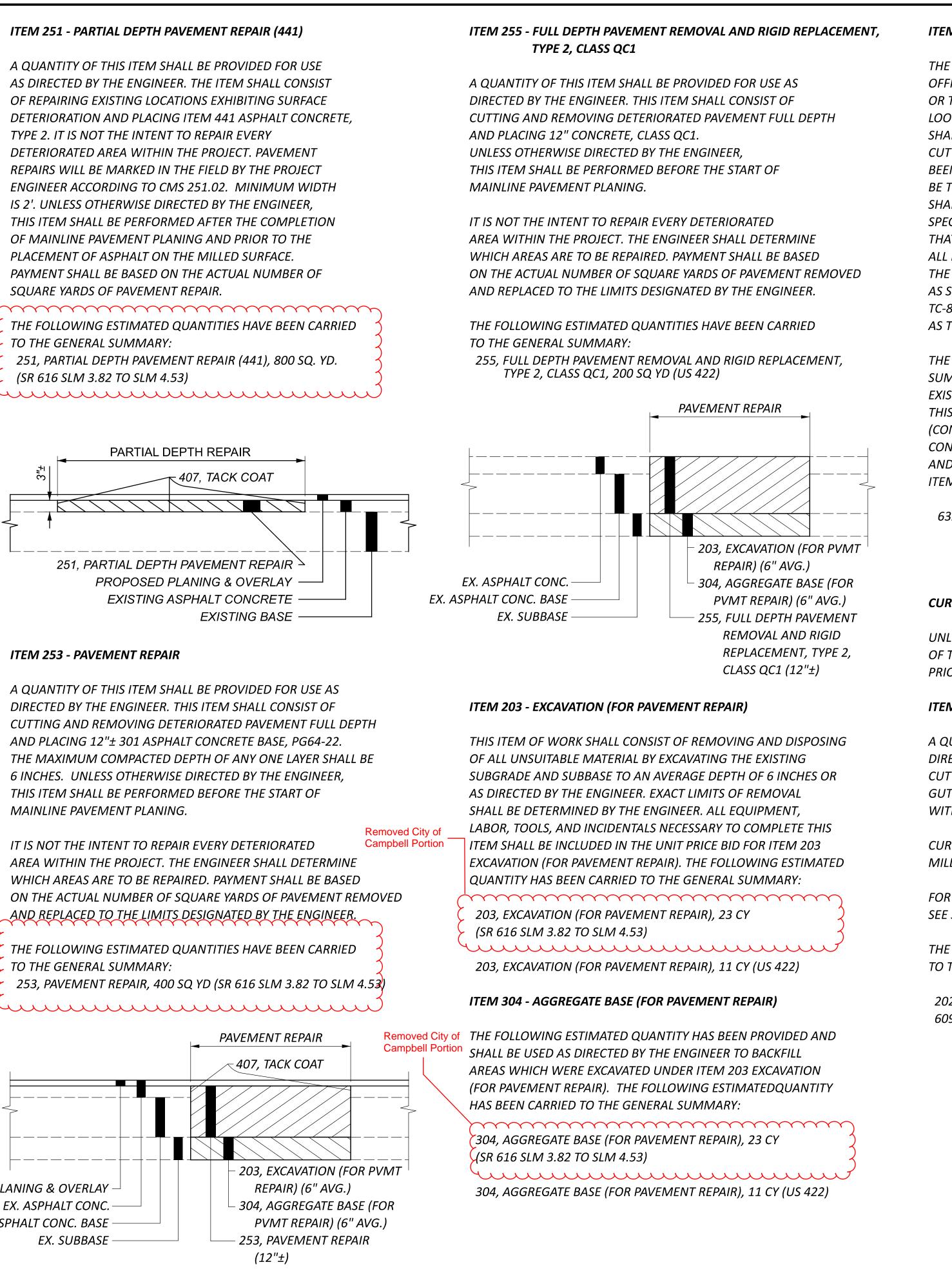
IN LOW SHOULDER AREAS EXCEEDING 1", AND ADJACENT TO THE SAFETY EDGE. OR AS DIRECTED BY THE ENGINEER. RECYCLED ASPHALT PAVEMENT (RAP) SHALL BE USED IN AREAS ADJACENT TO THE PAVED BERM. THE RAP SHALL HAVE A MINIMUM PG CONTENT OF 4.5% AND MEET THE FOLLOWING GRADATION. ONCE THE STOCKPILE MEETS THE GRADATION, THE PG CONTENT OF THE RAP SHALL BE DETERMINED PER 441.03. THE RAP ANALYSIS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL 2 WEEKS PRIOR TO USE. METHOD OF MEASUREMENT SHALL BE AS PER 617.06. PLACEMENT AND COMPACTION SHALL MEET THE REQUIREMENTS OF ITEM 617. ALL Removed City of MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS Campbell Portion NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 617 COMPACTED AGGREGATE, AS PER PLAN.

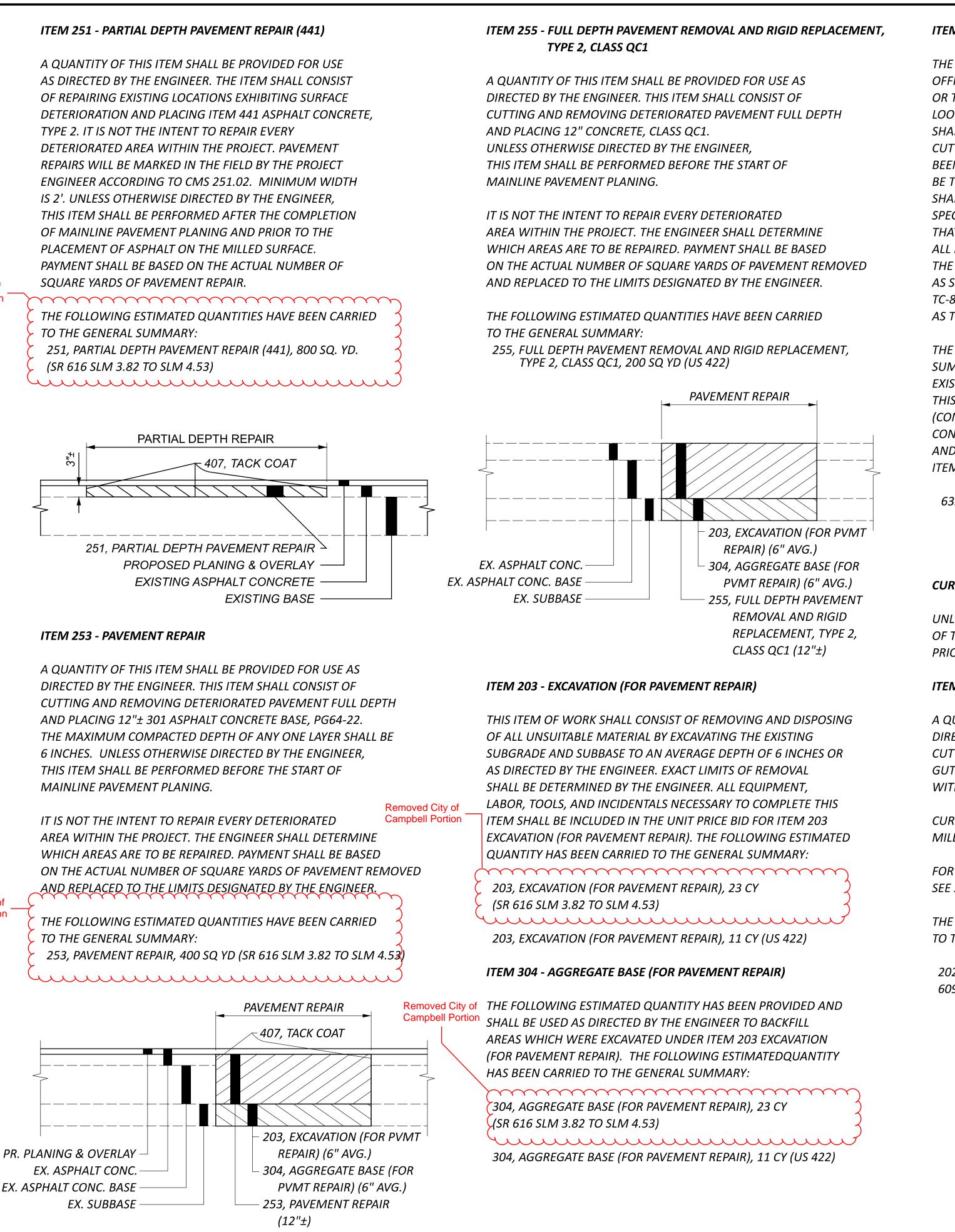
MODIFIED GRADATION SHALL APPLY:

SIEVE	TOTAL PERCENT PASSI	NG
1- 1/2"	100	
3/4"	50-100	
NO. 4	35-70	
NO. 30	9-33	
NO. 200	0-13	

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ITEM 632 - DETECTOR LOOP, AS PER PLAN

THE CONTRACTOR SHALL CONTACT THE YOUNGSTOWN PUBLIC WORKS OFFICE (330-742-8800) THREE WORKING DAYS PRIOR TO ANY PLANING OR TRENCHING AT THE INTERSECTION OF SR 616 AND US 422. LOOP DETECTORS DISTURBED BY PAVEMENT PLANING OR TRENCHING SHALL BE ABANDONED IN PLACE. THE LOOP DETECTOR WIRE WILL BE CUT INTO THE PAVEMENT AFTER THE PROPOSED SURFACE COURSE HAS BEEN PLACED. ALL STOP LINE INDUCTANCE DETECTOR LOOPS SHALL BE THE POWERHEAD CONFIGURATION SHOWN ON TC-82.10. THE WIDTH SHALL BE AS SPECIFIED ON TC-82.10 AND THE LENGTH SHALL BE AS SPECIFIED BELOW. THE LOCATION OF THESE LOOPS SHALL BE SUCH THAT THE POWERHEAD IS LOCATED AT THE STOP LINE, NOT PAST IT. ALL DILEMMA ZONE INDUCTANCE DETECTOR LOOPS CALLED FOR IN THE PLANS SHALL BE THE ANGULAR DESIGN DETECTION (ADD) LOOP AS SHOWN ON TC-82.10. DIMENSIONS SHALL BE AS SPECIFIED ON TC-82.10 AND THE LOOP SHALL BE PLACED AT THE SAME LOCATION AS THE EXISTING LOOPS.

THE QUANTITIES LISTED BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY. THE NEW LOOP DETECTOR WIRES SHALL BE RUN INTO THE EXISTING CONTROL BOX OR THE EXISTING PULLBOX. INCLUDED IN THIS ITEM IS THE POURED EPOXY TYPE CABLE SPLICE KIT (CONFORMING TO 725.15E) THAT MUST BE USED IN MAKING THESE CONNECTIONS. ALL NECESSARY MATERIAL, LABOR, SPLICE KITS AND EQUIPMENT SHALL BE INCIDENTAL TO PAYMENT OF THESE

632 DETECTOR LOOP, AS PER PLAN, 6 EACH 1 EACH, (6' X 20' POWERHEAD) *3 EACH, (6' X 25' POWERHEAD)* 2 EACH, (6' X 30' POWERHEAD)

CURB RAMPS / DETECTABLE WARNINGS

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, INSTALLATION OF THE CURB RAMPS / DETECTABLE WARNINGS WILL BE PERFORMED PRIOR TO MAINLINE RESURFACING.

ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 3, AS PER PLAN

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF CUTTING AND REMOVING DETERIORATED SECTIONS OF CURB AND GUTTER ON US 422 FROM SLM 7.58 TO SLM 10.14 AND REPLACING WITH NEW CURB AND GUTTER.

CURB AND GUTTER WORK SHALL BE PERFORMED PRIOR TO MAINLINE MILLING OPERATIONS.

FOR COMBINATION CURB AND GUTTER, TYPE 3, AS PER PLAN DIMENSIONS, SEE SHEET P.4.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

202, CURB AND GUTTER REMOVED, 2000 FT 609, COMBINATION CURB AND GUTTER, TYPE 3, AS PER PLAN, 2000 FT

NOTES ENERAL ר)

ESIGN AGENCY



ITEM 611 – MANHOLE ADJUSTED TO GRADE, AS PER PLAN ITEM 623 – MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN ITEM 638 – VALVE BOX ADJUSTED TO GRADE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 611.10.D FOR MANHOLES, 623.05 FOR MONUMENT ASSEMBLY, OR 638.18 FOR VALVE BOXES, THE CONTRACTOR WILL MAKE A CLEAN CIRCULAR CUT AROUND THE CASTING (48" DIAMETER FOR STORM AND SANITARY MANHOLE CASTINGS, 24"-28" FOR VALVE BOXES AND MONUMENT ASSEMBLIES, AND 2' IN DIAMETER LARGER THAN THE CASTING DIAMETER FOR ANY CASTINGS THAT ARE LARGER THAN STANDARD MANHOLES) AND REMOVE AND DISCARD THE EXISTING CASTING. INSTALL A NEW CASTING TO GRADE (ACCORDING TO TOLERANCES AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1) AFTER THE PAVEMENT SURFACE COURSE HAS BEEN REPLACED.

CMS 499 CLASS QCMS CONCRETE (DYE THE CONCRETE SUCH THAT ITS COLOR CLOSELY MATCHES THE COLOR OF THE SURROUNDING PAVEMENT) WILL BE USED FOR BACKFILLING THE FULL PAVEMENT SECTION AND THE JOINT BETWEEN THE ASPHALT AND CONCRETE WILL BE SEALED WITH CMS 702.01 PG BINDER. EPOXY COATED REBAR SHALL BE PLACED IN THE CONCRETE AT 6" MAXIMUM ON CENTER AND A MINIMUM OF 3.5" CLEARANCE FROM THE TOP, BOTTOM AND SIDES. THE CONCRETE WILL BE VIBRATED SUFFICIENTLY TO ELIMINATE AIR POCKETS UNDER THE FRAME.

PAYMENT WILL INCLUDE REMOVAL OF THE EXISTING MATERIAL, INSTALLATION AND FURNISHING OF A NEW CASTING, AND ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THIS ITEM OF WORK AS DESCRIBED.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 611 – MANHOLE ADJUSTED TO GRADE, AS PER PLAN, 2 EACH ITEM 623 – MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN, 8 EACH

ITEM 638 – VALVE BOX ADJUSTED TO GRADE, 3 EACH

CATCH BASIN ADJUSTED TO GRADE (SR 616)

AN ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR ADJUSTING CATCH BASINS TO GRADE.

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF REQUIRED TYPE, SIZE AND STRENGTH. ENSURE ALL MATERIAL MEETS CMS ITEM 611 Removed City of AND HAS PRIOR APPROVAL OF THE ENGINEER. Campbell Portion

Marine Contraction of the Contra ITEM 611 – CATCH BASIN ADJUSTED TO GRADE. 2 EACH ITEM SPECIAL – MISCELLANEOUS METAL, 800 LB

CATCH BASIN ADJUSTED TO GRADE (US 422)

AN ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR ADJUSTING CATCH BASINS TO GRADE.

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF REQUIRED TYPE, SIZE AND STRENGTH. ENSURE ALL MATERIAL MEETS CMS ITEM 611 AND HAS PRIOR APPROVAL OF THE ENGINEER.

ITEM 611 – CATCH BASIN ADJUSTED TO GRADE, 4 EACH ITEM SPECIAL – MISCELLANEOUS METAL, 1600 LB

CATCH BASIN RECONSTRUCTED TO GRADE (SR 616)

AN ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR RECONSTRUCTING CATCH BASINS TO GRADE.

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF REQUIRED TYPE, SIZE AND STRENGTH. ENSURE ALL MATERIAL MEETS CMS ITEM 611 AND HAS PRIOR APPROVAL OF THE ENGINEER.

ITEM 611 – CATCH BASIN RECONSTRUCTED TO GRADE, 2 EACH ITEM SPECIAL – MISCELLANEOUS METAL, 900 LB

ITEM SPECIAL - AS-BUILT CONSTRUCTION PLANS

PRIOR TO FINAL ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL FURNISH THE DEPARTMENT FORMAL AS-BUILT CONSTRUCTION PLANS. THE FORMAL AS-BUILT CONSTRUCTION PLANS SHALL INCLUDE ALL RED-LINED CHANGES. RED-LINE CHANGE SHALL BE DENOTED UTILIZING CLOUDING IN MICROSTATION (OR OTHER CAD SOFTWARE) OR CLOUDING IN PDF EDITING SOFTWARE. THE AS-BUILT CONSTRUCTION PLANS SHALL HAVE A SIGNED VERIFICATION ON THE TITLE SHEET FROM THE CONTRACTOR INDICATING THAT ALL RED-LINED AND FIELD CHANGES HAVE BEEN INCORPORATED INTO AS-BUILT CONSTRUCTION PLANS.

THE CONTRACTORS VERIFICATION STATEMENT INDICATES ALL KNOWN FIELD MODIFICATIONS MADE HAVE BEEN INCLUDED IN THE FORMAL AS-BUILT CONSTRUCTION PLANS. THE CONTRACTORS VERIFICATION STATEMENT SHALL BE SIGNED BY THE CONTRACTORS PROJECT MANAGER (OR ACCEPTABLE REPRESENTATIVE).

IN ADDITION TO THE INFORMATION SHOWN ON THE CONSTRUCTION PLANS, THE AS-BUILT CONSTRUCTION PLANS SHALL SHOW THE FOLLOWING:

- TYPE OR SIZE OF WORK.
- ELEVATION.
- THE SPECIFICATION (E.G., CONDUIT).

1. ALL DEVIATIONS FROM THE ORIGINAL APPROVED CONSTRUCTION PLANS WHICH RESULT IN A CHANGE OF LOCATION, MATERIAL,

2. ANY UTILITIES, PIPES, WELLHEADS, ABANDONED PAVEMENTS,

FOUNDATIONS OR OTHER MAJOR OBSTRUCTIONS DISCOVERED AND REMAINING IN PLACE WHICH ARE NOT SHOWN, OR DO NOT CONFORM TO LOCATIONS OR DEPTHS SHOWN IN THE PLANS. UNDERGROUND FEATURES SHALL BE SHOWN AND LABELED ON THE AS-BUILT CONSTRUCTION PLANS IN TERMS OF STATION, OFFSET AND

3. THE FINAL OPTION AND SPECIFICATION NUMBER SELECTED FOR THOSE ITEMS WHICH ALLOW SEVERAL MATERIAL OPTIONS UNDER

4. CHANGES TO THE PAY ITEMS AND FINAL QUANTITIES AS PAID SHALL BE SHOWN ON THE GENERAL SUMMARY AND SUBSUMMARIES. 5. ADDITIONAL PLAN SHEETS MAY BE NEEDED IF NECESSARY TO SHOW WORK NOT INCLUDED IN THE CONSTRUCTION PLANS. IF ADDITIONAL PLAN SHEETS ARE NEEDED, THEY ARE REQUIRED TO BE PREPARED IN CONFORMANCE WITH THE LOCATION AND DESIGN MANUAL, VOLUME 3, SECTION 1200 - PLAN PREPARATION.

ITEM SPECIAL - AS-BUILT CONSTRUCTION PLANS (CONT)	FAR
NOTATION SHALL ALSO BE MADE OF LOCATIONS AND THE EXTENT OF	PRO
USE OF MATERIALS, OTHER THAN SOIL, FOR EMBANKMENT CONSTRUCTION	ENC
(ROCK, BROKEN CONCRETE WITHOUT REINFORCING STEEL, ETC.).	COL
	ELE
THE PLAN INDEX SHALL SHOW THE PLAN SHEETS WHICH HAVE CHANGES	(RIG
APPEARING ON THEM.	CON
	EXIS
TWO COPIES OF THE AS-BUILT CONSTRUCTION PLANS SHALL BE	
DELIVERED TO THE PROJECT ENGINEER FOR APPROVAL UPON	OUT
COMPLETION OF THE PHYSICAL WORK BUT PRIOR TO THE REQUEST FOR	WHI
FINAL PAYMENT. AFTER THE DEPARTMENT HAS APPROVED THE AS-BUILT	DITC
CONSTRUCTION PLANS, THE ASSOCIATED ELECTRONIC FILES SHALL BE	
DELIVERED TO THE DISTRICT CAPITAL PROGRAMS ADMINISTRATOR.	DITC
ACCEPTANCE OF THESE PLANS AND DELIVERY OF THE ASSOCIATED	OUT
ELECTRONIC FILES IS REQUIRED PRIOR TO THE WORK BEING ACCEPTED	ELEV
AND THE FINAL ESTIMATE APPROVED.	TILE
	CON
PAYMENT FOR ALL THE ABOVE SHALL BE LUMP SUM UPON PROPER	ADE
EXECUTION OF ALL WORK OF THIS ITEM AS DETERMINED BY THE	
PROJECT ENGINEER.	THE
	IS DI
CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND	FINA
UTILITIES (MAH-422-8.352)	
	PRO
WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE	ALL
CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING	DM-
SEWER OR UNDERGROUND UTILITY, LOCATE THE EXISTING	
PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE	PAYI
STARTING TO LAY THE PROPOSED CONDUIT.	BEN
	CON
IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING	
CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED,	THE
DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE	IN T
IN THE PLAN CONDUIT SLOPE, NOTIFY THE ENGINEER BEFORE	
STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED	611
CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE	611
EXISTING ELEVATIONS.	611
	601
IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL	
INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF	ROA
CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER	
BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE	THE
PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE	AT T
INTERFERENCE WITH AN EXISTING FACILITY.	ONS
	WO
PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE IS	OPE
INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT	
611 CONDUIT ITEM.	ITEN

REVIEW OF DRAINAGE FACILITIES (MAH-422-8.352)

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD **OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY** THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

M DRAINS (MAH-422-8.352)

VIDE UNOBSTRUCTED OUTLETS TO ALL FARM DRAINS COUNTERED DURING CONSTRUCTION. REPLACE EXISTING LECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH VATIONS, AND WHICH CROSS THE ROADWAY WITHIN THE GHT OF WAY)(CONSTRUCTION) LIMITS WITH ITEM 611, NDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE TING CONDUIT.

TLET EXISTING COLLECTORS AND ISOLATED FARM DRAINS, ICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY CHES INTO THE ROADWAY.

CH USING ITEM 611, TYPE F CONDUIT. THE OPTIMUM TLET ELEVATION IS ONE FOOT ABOVE THE FLOWLINE VATION OF THE DITCH. INTERCEPT LATERAL FIELD ES WHICH CROSS THE ROADWAY WITH ITEM 611, TYPE E NDUIT, AND CARRY IN A LONGITUDINAL DIRECTION TO AN EQUATE OUTLET OR ROADWAY CROSSING.

LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS ETERMINED BY THE ENGINEER AND PAYMENT MADE ON AL MEASUREMENTS.

VIDE EROSION CONTROL PADS AT THE OUTLET END OF FARM DRAINS PER STANDARD CONSTRUCTION DRAWING I-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE.

MENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY IDS OR BRANCHES IS INCLUDED FOR PAYMENT IN THE PERTINENT NDUIT ITEMS.

FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

6" CONDUIT, TYPE B 30 FT. 6" CONDUIT, TYPE E 30 FT. 6" CONDUIT, TYPE F 30 FT. ROCK CHANNEL PROTECTION, TYPE C WITH FILTER 3 CU. YD.

ADWAY POST STRUCTURE REPLACEMENT (MAH-422-8.352)

CONTRACTOR SHALL USE THE FOLLOWING ITEMS AND QUANTITIES, THE DISCRETION OF THE PROJECT ENGINEER, TO MAINTAIN TRAFFIC STRUCTURE MAH-422-8.352 AFTER ALL STRUCTURE REPLACEMENT RK IS COMPLETED AND BEFORE THE MAH-422 MAINLINE PAVEMENT **ERATION COMMENCES:**

M 411 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), 25 CY ITEM 614 - WORK ZONE LANE LINE, CLASS III, 642 PAINT, 0.04 MILES ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT, 0.02 MILES

ESIGN AGENCY



ROJECT ID 105209 HEET TOTAL P.7 40

MAINTENANCE OF TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST **REVISION, THE SPECIFICATIONS AND THE FOLLOWING:**

TWO LANE SECTIONS:

1. A MINIMUM OF ONE TEN FOOT BIDIRECTIONAL LANE SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.

THREE OR MORE LANE SECTIONS:

A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK Removed City of EXCEPT AS SHOWN ON PLAN PAGES P.14-P.19. Campbell Portion

2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.

3. LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THOSE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES AND EQUIPMENT ACTIVELY REMOVING AND/OR PLACING PAVEMENT MATERIALS.

4. ALL FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT OPERATIONS SHALL BE COMPLETED THE SAME DAY THE EXCA-VATION IS MADE. IF THE CONTRACTOR CANNOT COMPLETE THE WORK, THE EXCAVATION SHALL BE BACKFILLED OR PRO-TECTED AS PER STANDARD CONSTRUCTION DRAWING MT-101.90.

5. TRUCK MOUNTED ATTENUATORS [TMA'S] SHALL BE USED AS SHOWN IN THE STANDARD CONSTRUCTION DRAWINGS.

6. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS TWO (2) MILES RURAL OR ONE [1] MILE URBAN.

7. FOR ROUTES NOT ON THE PERMITTED LANE CLOSURE CHART, ONLY DURING OFF-PEAK PERIODS (ie ANY PERIOD OTHER THAN 6-8AM AND 3-6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.

8. IN ADDITION TO THE REQUIREMENTS OF 614.11 WORK ZONE PAVEMENT MARKINGS, AT THE END OF EACH DAY OF WORK, THE CONTRACTOR SHALL REPLACE (WITH WORK ZONE MARKINGS) ALL LANE, CENTER, STOP OR CHANNELIZING LINES THAT WERE REMOVED OR COVERED DURING THE PAVEMENT REMOVAL OR PLACEMENT OPERATIONS. QUANTITIES FOR SUCH PLACEMENT ARE CARRIED AS PART OF THE ITEMS LISTED UNDER 614 WORK ZONE PAVEMENT MARKINGS.

9. A QUANTITY OF 5 CU. YDS. OF ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.

MAINTENANCE OF TRAFFIC (CONT...)

10. PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.

12. THE CONTRACTOR SHALL INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE WORK ZONE MARKING SIGNS AND THEIR SUPPORTS WITHIN THE WORK LIMITS. THESE SIGNS INCLUDE "NO EDGE LINES", "DO NOT PASS" AND "PASS WITH CARE". ALL OTHER SIGNS WILL BE INCIDENTAL TO THE LUMP SUM PAY ITEM 614 MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED IN THE PLANS. A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGNS HAS BEEN INCLUDED IN THE PLANS AS PER CMS 614.04.

13. THE CONTRACTOR SHALL SET A WORK ZONE AT THE REQUEST OF THE ENGINEER TO ALLOW THE LAYOUT OF THE PARTIAL/FULL DEPTH PAVEMENT REPAIR AREAS. THIS WORK IS INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC.

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAIN-TENANCE OF TRAFFIC ON THIS PROJECT: 614. WORK ZONE CENTER LINE. CLASS I. 3.20 MILE 614, WORK ZONE LANE LINE, CLASS I, 5.12 MILE 614, WORK ZONE STOP LINE, CLASS 1, 118 FT 614, WORK ZONE CHANNELIZING LINE, CLASS 1, 580 FT 614, WORK ZONE MARKING SIGN, (ALL PHASES) 6 EACH 614, WORK ZONE CENTERLINE, CLASS III, 642 PAINT 3.20 MILE 614, WORK ZONE LANE LINE, CLASS III, 642 PAINT 5.12 MILE 614, WORK ZONE STOP LINE, CLASS III, 642 PAINT 118 FT 614, WORK ZONE CHANNELIZING LINE, CLASS III, 642 PAINT 580 FT

TO BE USED AS DIRECTED BY THE ENGINEER 614, WORK ZONE EDGE LINE, CLASS III, 6.40 MILE

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC. UNLESS SEPARATELY ITEMIZED IN THE PLAN.

TRAFFIC CONTROL INSPECTOR

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER. TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REP-RESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISS-ING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

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ADVANCED NOTICE TO PAVE

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE DISTRICT CONSTRUCTION ENGINEER A DETAILED SCHEDULE 15 DAYS PRIOR TO THE PLACEMENT OF THE OVERLAY COURSES, ON HOW THEY PROPOSE TO PROSECUTE THE PAVING OPERATIONS. THE DETAILS SHALL SHOW THE ORDER OF PERFORMANCE OF EACH STAGE (START TO FINISH) OF THE WORK INCLUDING THE MAINTENANCE OF TRAFFIC THAT WILL BE USED.

ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

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

NEW YEAR'S (OBSERVED) GENERAL/REGULAR ELECTION DAY ((NOV) THANKSGIVING MEMORIAL DAY CHRISTMAS (OBSERVED) FOURTH OF JULY (OBSERVED) LABOR DAY

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY TIME ALL LANES OR SPECIAL EVENT MUST BE OPEN TO TRAFFIC

SUNDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY MONDAY 12:00N FRIDAY THROUGH 6:00 AM TUESDAY TUESDAY 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY TUESDAY (GEN./REG. ELECTION)

5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY WEDNESDAY 12:00N TUESDAY THROUGH 6:00 AM THURSDAY THURSDAY 12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY THURSDAY (THANKSGIVING ONLY)

6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY FRIDAY 12:00N THURSDAY THROUGH 6:00 AM MONDAY SATURDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRAIN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

TIME LIMITATION, TRAFFIC ON A MILLED SURFACE

THE MAXIMUM ALLOWABLE TIME FOR TRAFFIC TO BE PLACED ON A MILLED SURFACE SHALL BE 7 CONSECUTIVE CALENDAR DAYS. SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$3,000 PER DAY THAT THE TRAFFIC IS PLACED ON A MILLED SURFACE BEYOND THE SPECIFIED LIMIT.

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ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS **REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED** TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

THE CONTRACTOR SHALL NOT ANTICIPATE OR SCHEDULE PLACING ASPHALT (ASPHALT SURFACE COURSE, ASPHALT INTERMEDIATE COURSE, ASPHALT CONCRETE BASE, ETC.) BETWEEN NOVEMBER 1 AND APRIL 1 WHEN SUBMITTING THEIR INITIAL BAR CHART PROGRESS SCHEDULE TO THE DISTRICT CONSTRUCTION ENGINEER (DCE) AS SPECIFIED IN CMS SECTION 108.02A. THIS LIMITATION SHALL ALSO INCLUDE INITIAL BASE LINE SCHEDULES AND ALL UPDATES IF A CPM SCHEDULE IS REQUIRED.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK. ROAD STATUS. DATE AND TIME OF RESTRICTION. DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE											
DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO										
>= 2WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE										
> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE										
<12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE										
>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE										
< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE										
N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION										
	DURATION OF CLOSURE >= 2WEEKS > 12 HOURS & < 2 WEEKS <12 HOURS >=2 WEEKS < 2 WEEKS										

ASPHALT PAVING LIMITATION

ESIGN AGENCY



ITEM 614, MAINTAINING TRAFFIC (FOR MAH-422-8.352 SFN 5005559 ONLY)

A MINIMUM OF 1 LANF OF TRAFFIC IN FACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT AND THE COMPLETED PAVEMENT WITH A TEMPORARY SIGNALIZED CLOSURE USING ONE LANE OF TWO-WAY TRAFFIC. LANE CLOSURES FOR PHASE 1 AND 2 SHALL ONLY BE PERMITTED FROM JULY 1, 2025 TO AUGUST 31, 2025.

SEQUENCE OF CONSTRUCTION

SETUP / PRE-PHASE 1

A. CLOSE RIGHT LANE OF WESTBOUND TRAFFIC WITH DRUMS PER MT-95.31.

B. PERFORM GUTTER REPAIRS AS DIRECTED BY ENGINEER. ESTIMATED QUANTITIES ARE SHOWN IN NOTE BELOW.

<u>PHASE 1</u>

A. MAINTAIN ONE LANE OF TWO-WAY TRAFFIC ON THE EXISTING SHOULDER AND OUTSIDE WESTBOUND LANE WITH WORK ZONE TRAFFIC SIGNALS PER MT-96.11 AND THE DETAILS SHOWN IN THE PLANS. THE MAXIMUM DURATION OF THIS PHASE SHALL BE <u>21</u> DAYS.

B. INSTALL TEMPORARY SHEETING, REMOVE THE OUTLET PORTION OF THE EXISTING STRUCTURE AND HEADWALLS, CONSTRUCT OUTLET HEADWALL, INSTALL THE BOX CULVERT, COMPLETE PAVEMENT, INSTALL GUARDRAIL AND ANY OTHER PROPOSED WORK AS NEEDED.

<u>PHASE 2</u>

A. MAINTAIN ONE LANE OF TWO-WAY TRAFFIC ON THE EXISTING SHOULDER AND OUTSIDE EASTBOUND LANE WITH WORK ZONE TRAFFIC SIGNALS PER MT-96.11 AND THE DETAILS SHOWN IN THE PLANS. THE MAXIMUM DURATION OF THIS PHASE SHALL BE 21 DAYS.

B. INSTALL TEMPORARY SHEETING, REMOVE THE INLET PORTION OF THE EXISTING STRUCTURE AND HEADWALLS, CONSTRUCT INLET HEADWALL. INSTALL THE BOX CULVERT. COMPLETE PAVEMENT. INSTALL GUARDRAIL AND ANY OTHER PROPOSED WORK AS NEEDED.

PHASE 3

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MAH-422/616-7

MAINTAIN TRAFFIC IN EXISTING LANES PER MT-99.20. Α.

COMPLETE TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC TO R OPERATE IN EXISTING LANES UNTIL ASPHALT CONCRETE SURFACE COURSE AND FINAL PAVEMENT MARKINGS ARE PLACED AS PART OF THE OVERALL RESURFACING PROJECT.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE 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 ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B 30 SY ITEM 615 - ROADS FOR MAINTAINING TRAFFIC LUMP SUM

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS. AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

PROPERTY ACCESS

THE CONTRACTOR SHALL MAINTAIN ACCESS TO EACH PROPERTY AT ALL TIMES DURING CONSTRUCTION. PROPERTIES THAT HAVE MULTIPLE DRIVEWAY ACCESS POINTS MAY HAVE A DRIVEWAY CLOSED OR TURNING MOVEMENT RESTRICTIONS IMPOSED DURING SPECIFIC PHASES AS SHOWN IN THE PLAN DETAILS. THE CONTRACTOR SHALL DISCUSS PROPERTY ACCESS RESTRICTIONS WITH THE PROPERTY OWNERS AND COMMUNICATE HOW TRAFFIC WILL BE MAINTAINED PRIOR TO THE IMPLEMENTATION OF EACH PHASE.

EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY.

EXCAVATION FOR MAINTAINING TRAFFIC	6 CU. YD.
EMBANKMENT FOR MAINTAINING TRAFFIC	6 CU. YD.

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE TEMPORARY ROAD ARE NOT NORMALLY REQUIRED.

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

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

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.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

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 THE MANUFACTURER.

FULLY-ACTUATED OPERATION OF WORK ZONE TRAFFIC SIGNAL

THE WORK ZONE SIGNAL CONTROL REQUIRED FOR THIS PROJECT AND SHOWN ON SHEETS P.15 & P.18 AND TRAFFIC SCDS MT-96.11, 96.20 AND 96.26 SHALL BE FULLY TRAFFIC-ACTUATED AND OPERATE IN A MANNER SIMILAR TO THAT DESCRIBED IN SECTION 733.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE INITIAL CONTROLLER TIMING SHALL BE AS SHOWN IN THE PLANS. PROVIDE TIMING APPROPRIATE FOR THE SIGNAL LOCATION UNDER CONSIDERATION. TYPICAL FLOW RATES ARE DISPLAYED IN TABLE 697-2 IN THE ODOT TRAFFIC ENGINEERING MANUAL (TEM). Added Items

THE CONTRACTOR SHALL ALSO DESIGN, FURNISH, INSTALL AND MAINTAIN A TRAFFIC DETECTOR ON EACH TRAFFIC APPROACH WHICH WILL RELIABLY DETECT ALL LEGAL TRAFFIC APPROACHING (BUT NOT LEAVING) THE SIGNAL AS IT PASSES OR WAITS IN THE DESIGNATED DETECTOR ZONE SHOWN IN THE PLANS. DETECTOR DESIGNS WHICH DO NOT PROVIDE RELIABLE DETECTION, FREE FROM FALSE CALLS, SHALL BE IMMEDIATELY REPLACED BY THE CONTRACTOR.

OVERHEAD-MOUNTED WORK ZONE SIGNALS

SIGNALS SHALL BE OVERHEAD MOUNTED IN ACCORDANCE WITH THE DETAILS SHOWN ON TRAFFIC SCD MT-96.20.

SPECIAL - WORK ZONE TRAFFIC SIGNAL

THIS ITEM SHALL INCLUDE ALL WORK REQUIRED TO CONSTRUCT, POWER, OPERATE, AND MAINTAIN THE TEMPORARY TRAFFIC SIGNALS AND DETECTION EQUIPMENT PROPOSED FOR USE IN THESE PLANS. EACH LOCATION IS COUNTED AS ONE WORK ZONE TRAFFIC SIGNAL, REGARDLESS OF THE NUMBER OF MODIFICATIONS REQUIRED BY THE PLANS OR THE MATERIALS REQUIRED TO MAINTAIN TRAFFIC SIGNAL FUNCTION DURING CONSTRUCTION.

PAYMENT SHALL BE MADE AT THE UNIT PRICE BID FOR EACH LOCATION AND SHALL INCLUDE ALL MATERIALS. LABOR. INCIDENTALS. AND EQUIPMENT NECESSARY TO CONSTRUCT, OPERATE, MAINTAIN, AND REMOVE THE WORK ZONE TRAFFIC SIGNAL AND ASSOCIATED EOUIPMENT.

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 1 BI-DIRECTIONAL 16 FACH ITEM 614, OBJECT MARKER, 2-WAY 16 EACH

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

THE BUSINESS ENTRANCE (M4-H15) SIGN SHOULD BE PROVIDED AT EACH TEMPORARILY RELOCATED COMMERCIAL DRIVEWAY FOR WHICH THE RELOCATION IS NOT OBVIOUS TO THE MOTORIST. THE PROJECT ENGINEER SHALL DETERMINE WHETHER OR NOT THE DRIVEWAY RELOCATION IS, OR IS NOT, OBVIOUS AND WHETHER OR NOT A SIGN SHOULD BE PROVIDED. ONLY ONE SIGN PER BUSINESS SHALL BE PERMITTED. THE SIGN SHALL BE 36 INCH X 48 INCH IN SIZE WITH FLUORESCENT ORANGE RETROREFLECTIVE SHEETING. THE SIGN LEGEND SHALL BE PLACED ON BOTH SIDES OF THE SIGN (BACK TO BACK). THE SIGN SHALL HAVE THE STANDARD M4-H15 LEGEND WITH THE WORD "BUSINESS" ON THE TOP LINE, EXCEPT UNDER UNUSUAL CIRCUMSTANCES WHERE IT MAY NOT BE INTUITIVE THAT A DRIVEWAY SERVES A SPECIFIC BUSINESS. IN SUCH UNUSUAL CASES, THE ACTUAL BUSINESS NAME MAY BE SUBSTITUTED FOR THE WORD "BUSINESS".

PAYMENT FOR ALL COSTS ASSOCIATED WITH MANUFACTURING, MOUNTING, RELOCATING, AND REMOVING THE SIGN, INCLUDING ALL LABOR, MATERIALS AND EQUIPMENT SHALL BE INCLUDED IN THE CONTRACT PRICE PER EACH FOR ITEM 614-BUSINESS ENTRANCE SIGN.

SPECIAL - MAILBOX REMOVED AND RESET

THIS ITEM SHALL INCLUDE ALL WORK REQUIRED TO TEMPORARILY RELOCATE MAILBOXES DURING CONSTRUCTION ACTIVITIES AND THEN RETURN TO THE ORIGINAL LOCATION AFTER COMPLETION OF THE WORK AS DIRECTED BY THE ENGINEER.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THE WORK AND SHALL BE PAID AT THE UNIT PRICE BID FOR EACH MAILBOX.

mmmm

DELINEATION OF TEMPORARY AND PERMANENT GUARDRAIL

BARRIER REFLECTORS SHALL BE INSTALLED ON ALL TEMPORARY GUARDRAIL USED FOR TRAFFIC CONTROL; AND, ON ALL PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. BARRIER REFLECTORS SHALL CONFORM TO C&MS 626 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 2 BI-DIRECTIONAL ITEM 614, OBJECT MARKER, 2-WAY

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE ABOVE ITEM(S).

12 EACH

12 EACH

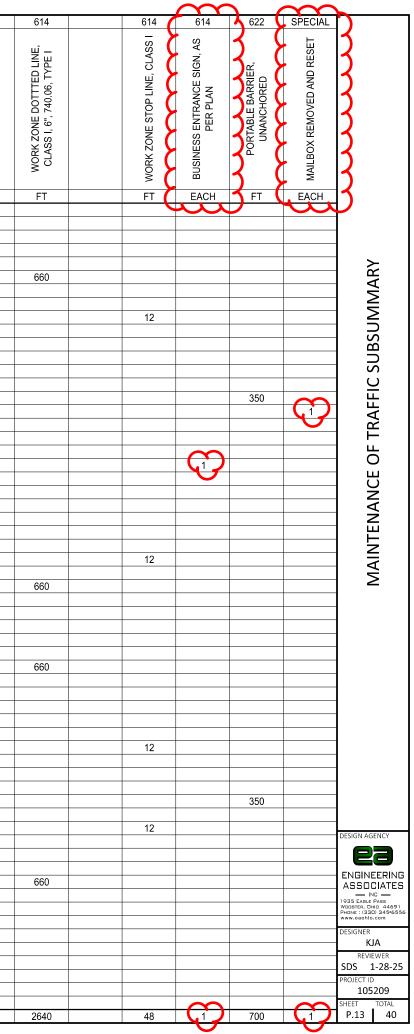
ITEM 614, BUSINESS ENTRANCE (M4-H15) SIGN, AS PER PLAN

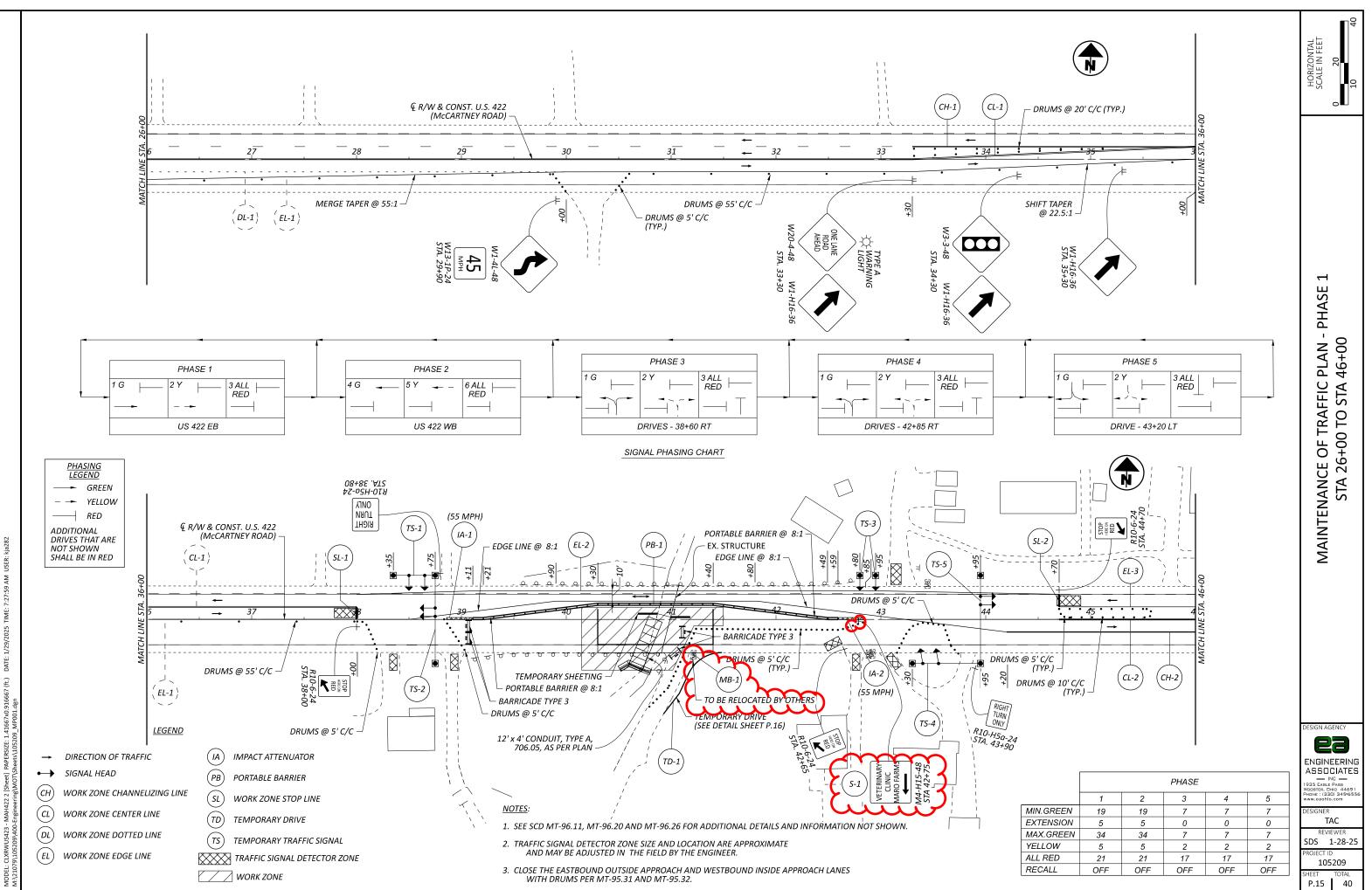
THE SIGN SHALL BE MOUNTED ON TWO #3 POSTS OR ON TEMPORARY POSTS IN ACCORDANCE WITH SCD MT-105.10 AND IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. THE SIGN SHALL BE CLEARLY VISIBLE AND SHALL CLEARLY IDENTIFY THE LOCATION OF THE DRIVEWAY. THE SIGN SHOULD BE POSITIONED AT 90 DEGREES TO THE DIRECTION(S) OF TRAFFIC. THE SIGN MAY NEED TO BE MOVED FOR EACH PHASE OF THE MAINTENANCE OF TRAFFIC OPERATIONS.



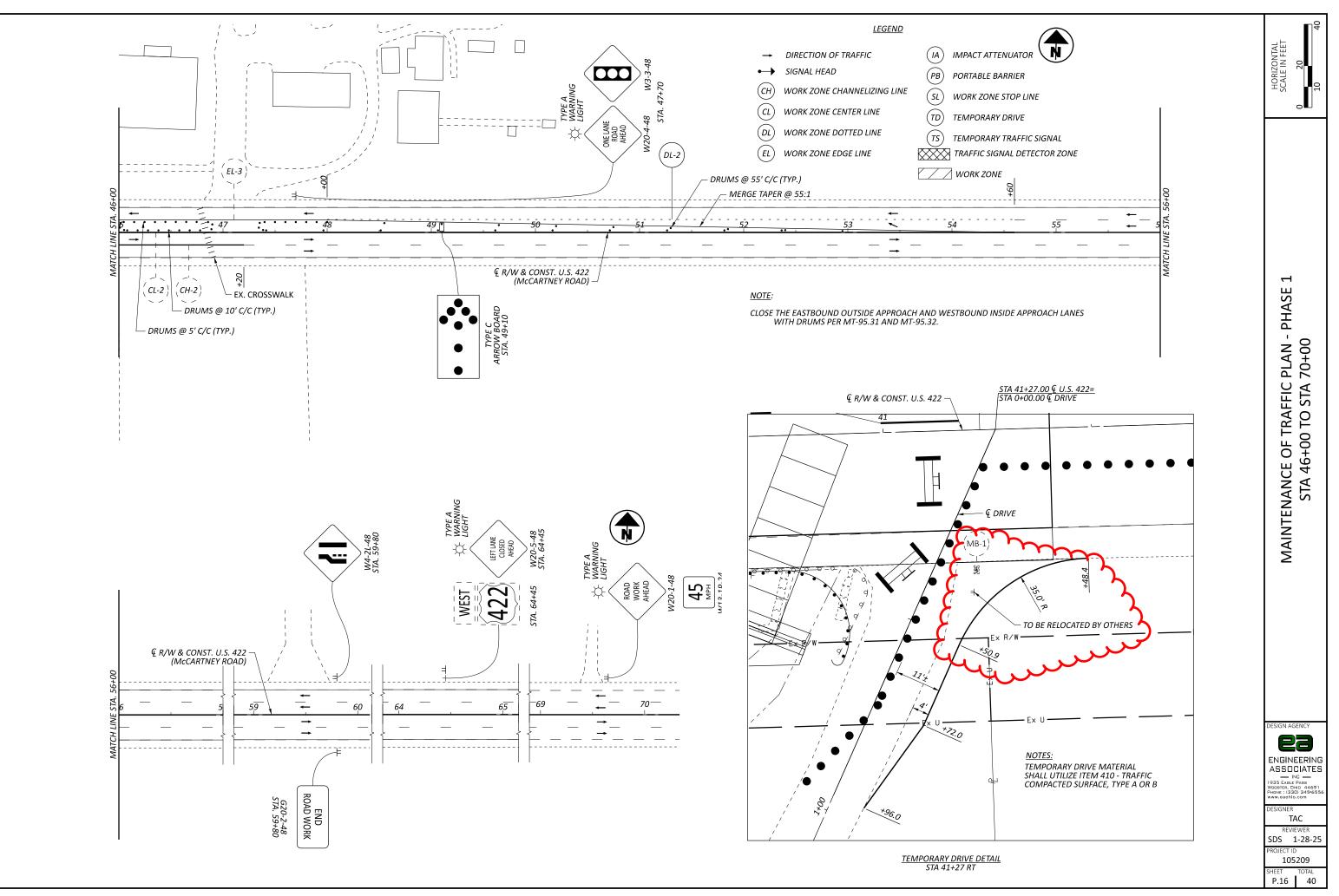
						410	SPECIA	L 614	614	614	614	614	614	614	614
REF NO.	SHEET NO.	STATION TO STATION					HORK ZONE TRAFFIC SIGNAL	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT	WORK ZONE LANE LINE, CLASS I, 6", 740.06, TYPE I	WORK ZONE CENTER LINE, CLASS	WORK ZONE CENTER LINE, CLASS	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I	WORK ZONE CHANNELIZING LINE,
				ТО											
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				44.00	~~										
EL-1 DL-1	P 14-P 15 P 14-P 15	23+40 23+40	RT RT	44+20 30+00	RT RT									0.39	
CL-1	P.15	33+30	LT	38+00	LT							0.09			
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TS-1	P.15	38+35	LT	38+75	LT		1								
TO 0	5.45	00.75	17/07												
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[A-2	P 15	42+50	LT.	42+84	LT			1							
<u>\$-1</u>	P.15 P.15	42+59 42+75 42 ⁺ 80	RT												
15-3 TS-4	P.15 P.15	42+80 43+30	EI RT	42+95 43+95	LT RT		1						 		<u> </u>
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SL-2	P.15	44+70	LT												
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EL-4	P.18	28+10	RT	38+00	RT									0.19	<u> </u>
DL-3 LL-2	P.18 P.18	28+10 33+30	RT LT	<u>34+70</u> 34+70	RT LT					0.03					
CL-3	P.18	33+30		37+50								0.08			
CH-3 EL-5	P.18	34+70	LT	37+50	LT										280
EL-5	P.18-P.19	37+50	LT	60+10	LT									0.43	
SL-3 EL-6	P.18 P.18	38+00 38+00	RT RT	44+70	RT									0.13	
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< ΙΔ <u>-</u> 4	P.18	42+59	RT	42+39	RT			1							
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© CL-4 8 CH-4	P 18-P 19 P 19	44+70 47+50	RT RT	50+20 50+20	RT RT							0.10	 		270
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MAH-422/616-7.58/3.81



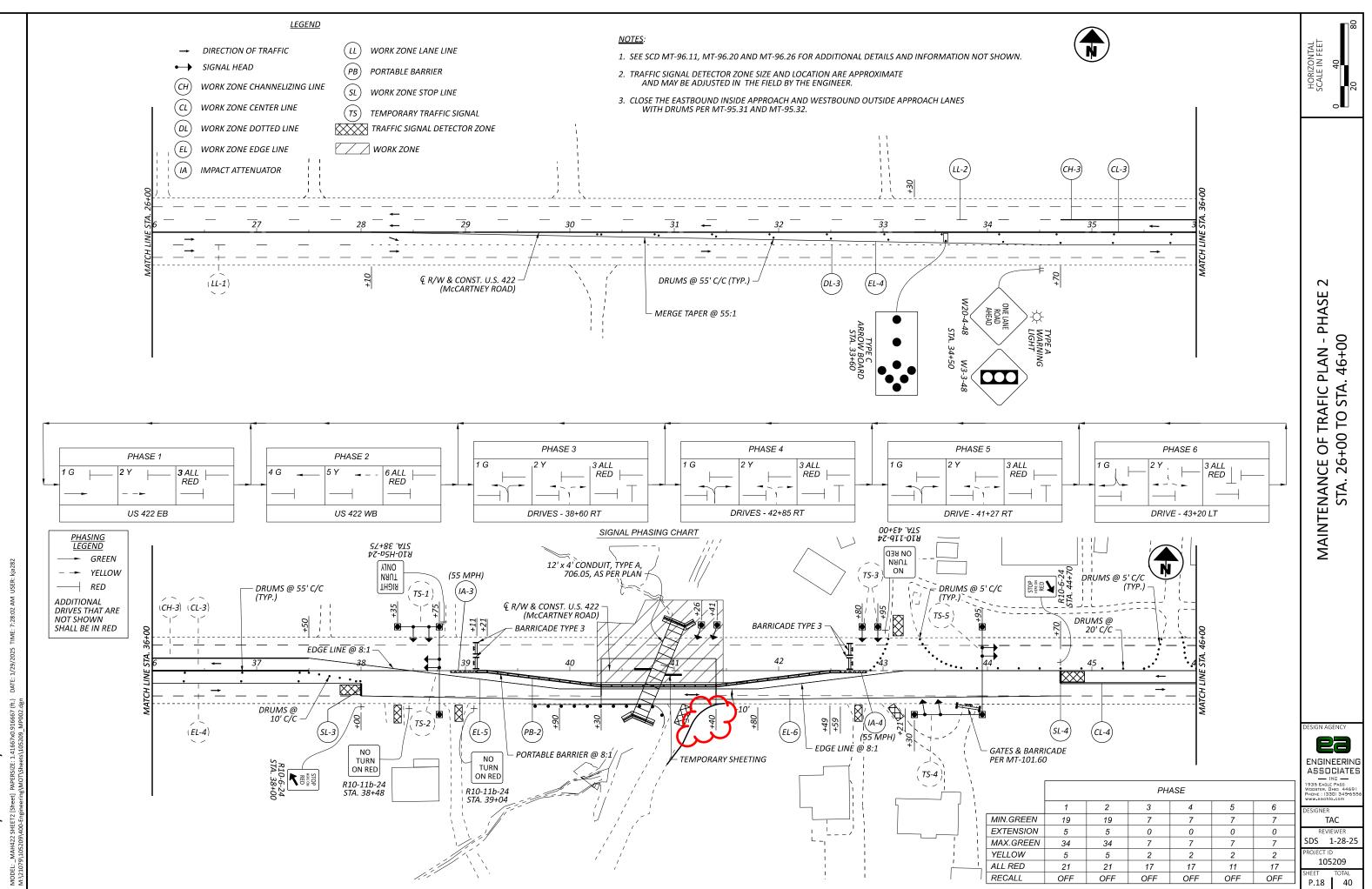


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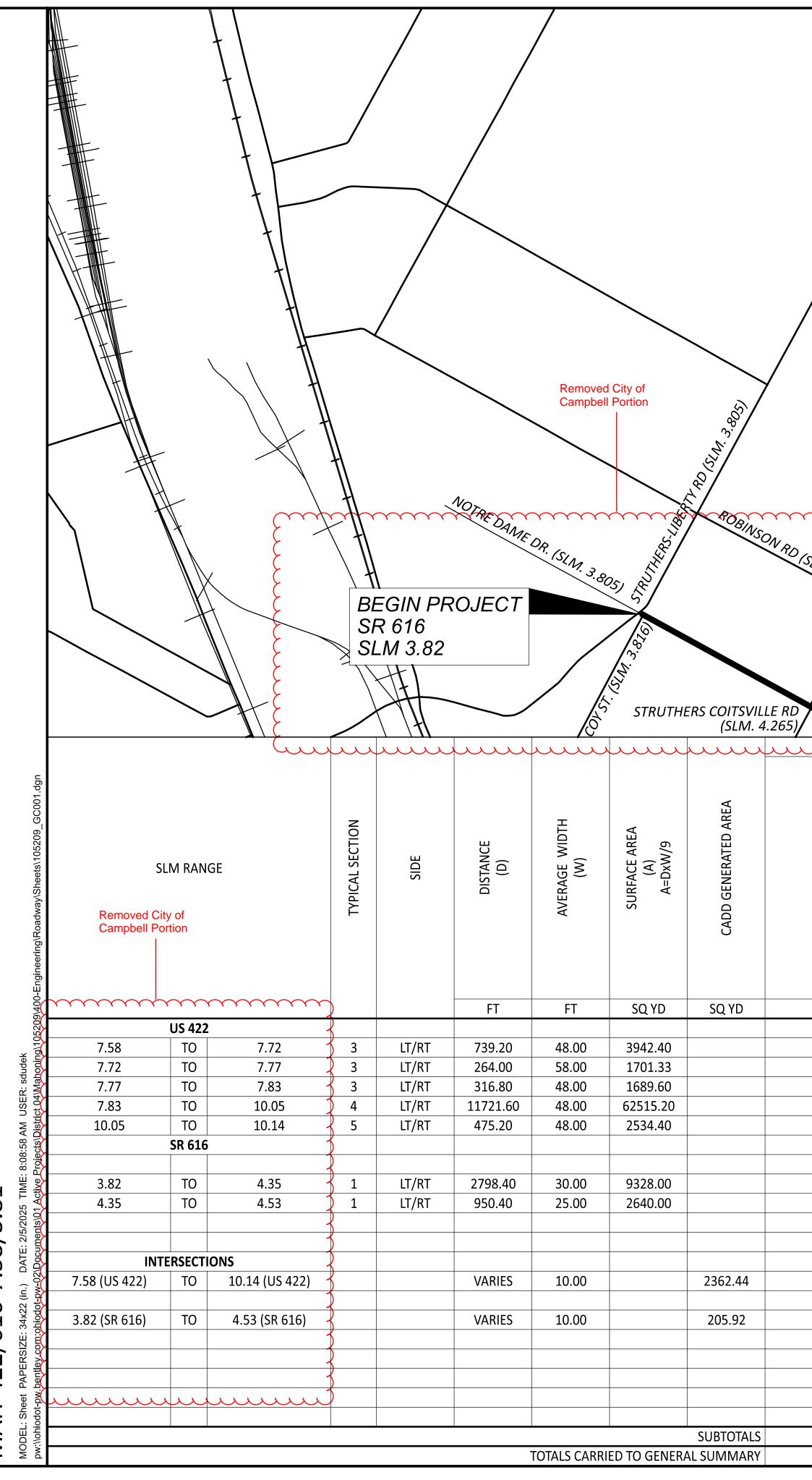
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	3 2					3,622	15							3,637			441	50100	3,637	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22N
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DESCRIPTION	SEE SHEET NO.	
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MOVED		
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D GUTTER REMOVED REMOVED		
OVED, 24" DIAMETER AND UNDER		
AIL REMOVED		
_ MISC.: INSPECTION WELL	P.8	
_ MISC.: CONDUIT	P.8	
ON	P.0	
ON (FOR PAVEMENT REPAIR)		
ON (FOR WALK OR CURB RAMP INSTALLATION)		
MENT		
MENT, AS PER PLAN	P.8	
DE COMPACTION	1.0	
RADING		(R)
AIL, TYPE MGS		SUMMARY
ASSEMBLY, MGS TYPE B		2
ASSEMBLY, MGS TYPE E, MASH 2016		
ASSEMBLY, MGS TYPE T		SI
RETE WALK		٦L
MP		GENERAL
ENT ASSEMBLY ADJUSTED TO GRADE		
REMOVED AND RESET	P.11	EI
CONSTRUCTION PLANS	P.7	Ū
ONTROL VERIFICATION	P.5	
EROSION CONTROL ANNEL PROTECTION, TYPE C WITH FILTER AND MULCHING CONTROL		
JIT, TYPE B		
JIT, TYPE E		
JIT, TYPE F		
DUIT, TYPE B, 706.02		
, MISC.: TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE	P.8	
, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE	P.8	
, MISC.: TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE	P.8	
, MISC.: TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE	P.8	
SIN ADJUSTED TO GRADE		
SIN RECONSTRUCTED TO GRADE		
E ADJUSTED TO GRADE, AS PER PLAN	P.7	
ON WELL		
NEOUS METAL	P.7	
PAVEMENT		DESIGN AGENCY
DEPTH PAVEMENT REPAIR (441)		\frown
IT REPAIR		
IT PLANING, ASPHALT CONCRETE (T=1.5")		
TH PAVEMENT REMOVAL AND RIGID REPLACEMENT, TYPE 2, CLASS QC1		
ATE BASE		
ATE BASE (FOR PAVEMENT REPAIR)		DESIGNER
RETE BASE, CLASS QC 1P		SJD REVIEWER
CKING TACK COAT		MJA 12-11-23
DAT, AS PER PLAN	P.5	PROJECT ID
D CRUSHED AGGREGATE		105209 SHEET TOTAL
CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M, PG70-22M		P.20 40

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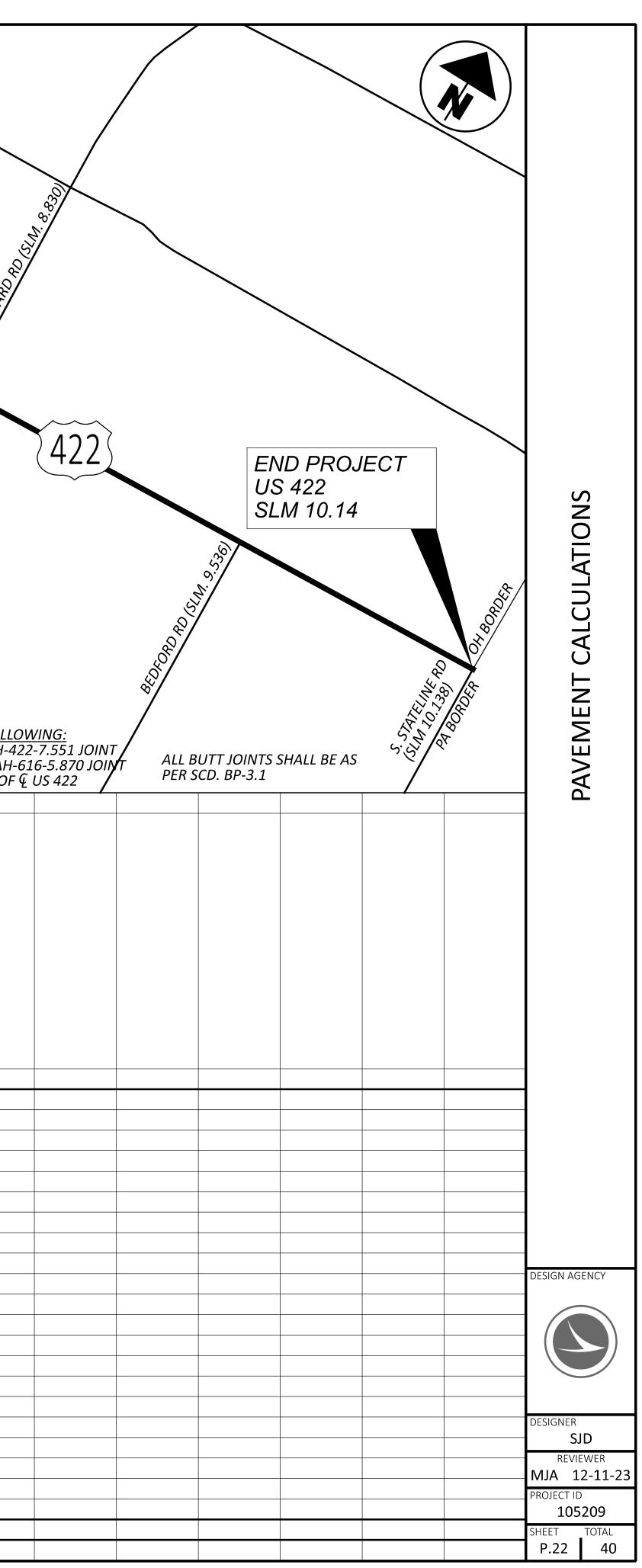
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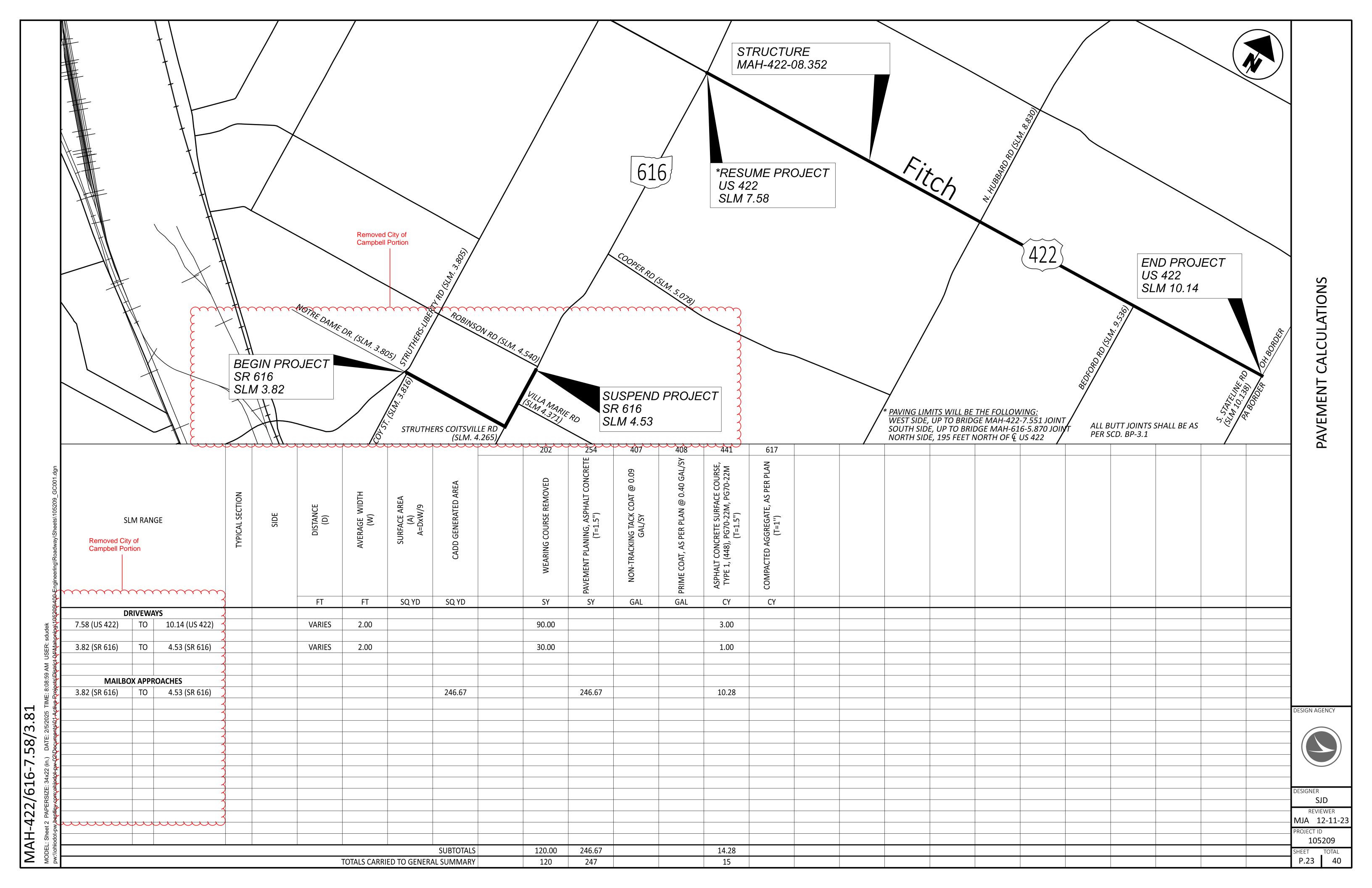
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	(~30~~	\sim	~~609~~		mon all		CURB, TYPE 6		_
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			$\frac{3}{1}$	\dots	638	10800	3	EACH	VALVE BOX ADJUSTED TO GRADE		-
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						54000	469	EACH	RAISED PAVEMENT MARKER REMOVED		-
			\sim	man man	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	EACH	BARRIER REFLECTOR, TYPE 2, BI-DIRECTIONAL		
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		5.12	uu	<u> </u>	646	10110	5.12	MILE	LANE LINE, 6"		
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	<u>ک</u>	3.2			646	10200	3.2		CENTER LINE		4
	(CHANNELIZING LINE, 12"		4
	(118	uu.		646	10400	118 		STOP LINE		-
		161			646	20300	161	FT EACH	CROSSWALK LINE, 24" LANE ARROW		-
		L 14			040	20300	14				R Z
									TRAFFIC SIGNALS		A A
			6		632	26501	6	EACH	DETECTOR LOOP, AS PER PLAN	P.6	MMA
									STRUCTURE 20 FOOT SPAN AND UNDER (MAH-422-8.352)		Σ
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	(\sim	\sim				\sim	WAINTENANCE OF TRAFFIC		S.
		-		6	203	10000	6	СҮ	EXCAVATION FOR MAINTAINING TRAFFIC		AL
	<u> </u>			6	203	20000	6	СҮ	EMBANKMENT FOR MAINTAINING TRAFFIC		RA
	<u> </u>			9	410	12000	9	СҮ	TRAFFIC COMPACTED SURFACE, TYPE A OR B		GENEI
		ngon		<u> </u>			<u>100</u>		LAW ENFORCEMENT OFFICER WATH PATROL CAR FOR ASSISTANCE	D 11	
				5	SPECIAL	61411300	5	EACH	WORK ZONE TRAFFIC SIGNAL	P.11	U U
				Λ	614	12380	Λ	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)		-
		6		4	614	12380	6	EACH	WORK ZONE IMPACT ATTENDATOR, 24 WIDE HAZARDS, (UNIDIRECTIONAL)		-
		5			614	13000	5	СҮ	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC		-
				16	614	13310	16		BARRIER REFLECTOR, TYPE 1, BI-DIRECTIONAL		-
				12	614	13312	12		BARRIER REFLECTOR, TYPE 2, BI-DIRECTIONAL		
				28	614	13360	28	EACH	OBJECT MARKER, TWO WAY		
		12		4	614	18601	16	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P.10	
		5.12			614	20010	5.12	MILE	WORK ZONE LANE LINE, CLASS I, 6"		_
				1.02	614	20110	1.02	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT		-
				0.12	614	20210	0.12	MILE	WORK ZONE LANE LINE, CLASS I, 6", 740.06, TYPE I		-
		<u> </u>		0.01	61/		5 16	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT		-
		3.2	$\gamma \gamma \gamma \gamma \gamma \gamma$	1 John A	۲۰۰۵-۲۹ 614	20560 21000	3.2	MILE	WORK ZONE LANE LINE, CLASS III, 6-, 642 PAINT WORK ZONE CENTER LINE, CLASS I		1
			uu	Jan March		21000			WORK ZONE CENTER LINE, CLASS I WORK ZONE CENTER LINE, CLASS I, 642 PAINT		-
			\sim				0.5		WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I		1
						21550		MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT		1
		han	\dots								1
				0.83	614	22110	0.83	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT]
		\sim	\sim	1.46	~~ 614 ~~	~22210~	1.46	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I		
		6.4			614	22360	6.4	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT		4
		580			614		580		WORK ZONE CHANNELIZING LINE, CLASS I, 12"		4
				1,120	614	23410	1,120	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 740.06, TYPE I		4
		F00			C1 /	2200	гоо	Г 			- DESIGN AGENCY
		580		2 610	614	23690	580	FT FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT WORK ZONE DOTTED LINE, CLASS I, 6", 740.06, TYPE I		_
		118	\sim	~2,640~ 48	614 614	24402 26000	~2,640 166	FI Z FT	WORK ZONE DOTTED LINE, CLASS 1, 6 , 740.06, TYPE I WORK ZONE STOP LINE, CLASS I		
			-								
		1000	m	it fill				EACH	WORK ZONE STOP LINE, CLASS III, 642 PAINT BUSINESS ENTRANCE SIGN, AS, PER, PLAN added item	P.11	
				uu	uiu	uiu		min			
					615	10000	LS		ROADS FOR MAINTAINING TRAFFIC		
					615	25000	30	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B		
				700	622	41100	700	FT	PORTABLE BARRIER, UNANCHORED		– SJD – REVIEWER
									INCIDENTALS		MJA 12-11-
		LS			614	11000	LS		MAINTAINING TRAFFIC		PROJECT ID
		6			619	16010	6	MNTH	FIELD OFFICE, TYPE B		105209
		LS LS			623 624	10000	LS LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING MOBILIZATION		- SHEET TOTAL P.21 40
			_		/ ` 1 /I	3.0000	1.12				/ /



MAH-422/616-7.58/3.81

						RUCTU AH-422-0				
			COOPER RD		US 42 SLM 7		OJECT		ίς /	N HILEBORNEO
SIN. A.S	VILLA NIARIE	SI Ro SI	USPEND R 616 LM 4.53	PROJE	CT			WEST SIDE, SOUTH SIDI	<u>AITS WILL BE</u> UP TO BRID E, UP TO BRI E, 195 FEET I	GE MAH-42 DGE MAH-6
	WEARING COURSE REMOVED	PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5")	NON-TRACKING TACK COAT @ 0.09 GAL/SY	PRIME COAT, AS PER PLAN @ 0.40 GAL/SY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M, PG70-22M (T=1.5")	COMPACTED AGGREGATE, AS PER PLAN (T=1" AVG)				
	SY	SY 3942.40 1701.33 1689.60 62515.20 2534.40	GAL 354.82 153.12 152.06 5626.37 228.10	GAL	CY 164.27 70.89 70.40 2604.80 105.60	CY				
		9328.00 2640.00 2362.44	839.52 237.60 212.62	497.49 168.96	388.67 110.00 98.44	51.82 17.60				
		205.92	18.53	666.45	8.58	69.42				
		86920	7823	667	3622	70				





		MAIN ROUTE	INTERSECTING ROUTE	DESIGN SHEET	QUADRANT RL=REAR LT, RR=REAR RT FL=FWD LT, FR=FWD RT (LOOKING UPSTATION)	CURB RAMP TYPE (SCD BP-7.1, SHEET 2/3)
		(\sim	\dots	\sim
		US 422	SR 616 (SLM 7.58)		FL FR	B2 B2 B2 B2
					FR	B2
					RR RR	B2 B2
		US 422	PURPLE CAT (SLM 8.46)		FR RR	B1 C1
	dgn					
	GS001.0					
	Sheets\105209_					
	.Roadway∖\$					
	: sdudek 00-Engineering∖					
	A USER 05209\40					
	IME: 1:32:54 PN t 04\Mahoning\1					
	5/2025 1 ts\Distric					
81	(in.) DATE: 2/5 01 Active Project					
3/3.	: 34x22 (uments\0					
MAH-422/616-7.58/3.81	MODEL: Curb Ramp Subsummary PAPERSIZE: 34x22 (in.) DATE: 2/5/2025 TIME: 1:32:54 PM USER: sdudek pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 04\Mahoning\105209\400-Engineering\Roadway\Sheets\105209_GS001.dgn					
- 9/-	ubsumm. .com.ohi					
VH-422	: Curb Ramp Su odot-pw.bentley.					
Σ	MODEL pw:\\ohid		ΤΟΤΑ	ALS CARR	IED TO GENERA	SUBTOT

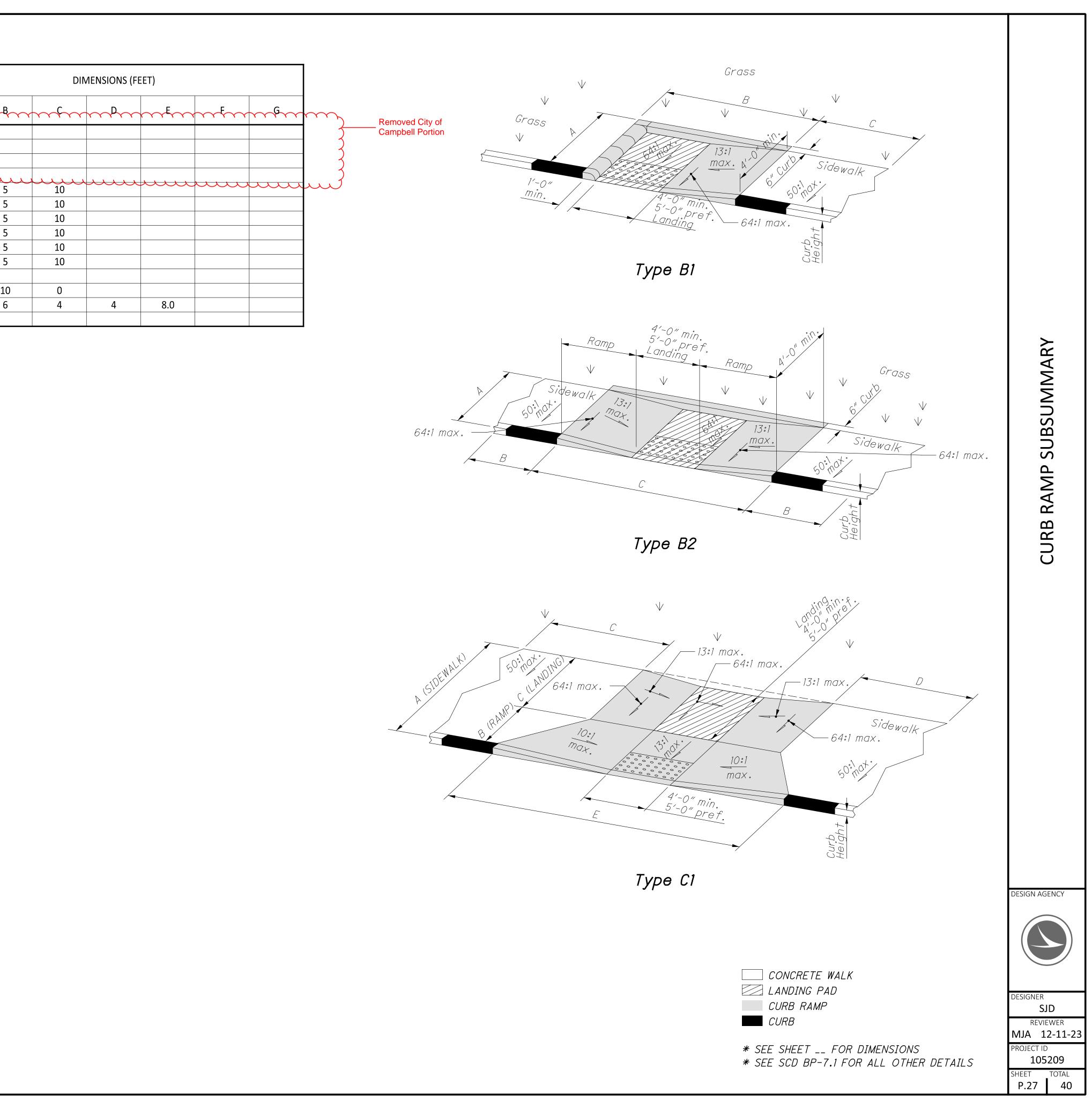
202 212 0.00 0.03 0.03 0.03 0.04 0										1				
	-	202	202	203 ද	608	608	609	611	625 ш	638	202	609 번		_
38.00 10.00 6.33 6.60 9.00 5.00 Sector of the		WALK REMOVED	CURB REMOVED		4" CONCRETE WALK	CURB RAMP	ТҮРЕ	MANHOLE ADJUSTED TO GRADE	PULL BOX, MISC.: ADJUSTED TO GRAD	VALVE BOX ADJUSTED TO GRADE	AND GUT	COMBINATION CURB AND GUTTER, TYF		
1 1 <th1< th=""> 1 <th1< th=""> <th1< th=""></th1<></th1<></th1<>	\sim				1					EACH	FT	FT		
23.00		50.00 68.00 65.00 100.00 100.00	10.00 10.00 10.00 10.00 10.00 10.00	0.37 0.37 0.37 0.37 0.37 0.37 0.37	50.00 68.00 65.00 100.00 100.00	40.00 40.00 40.00 40.00 40.00 40.00	5.00 5.00 5.00 5.00 5.00 5.00			Re Ca	emoved City of mpbell Portion			
23.00		20.00												
		J24	00	5	COt	240	50							

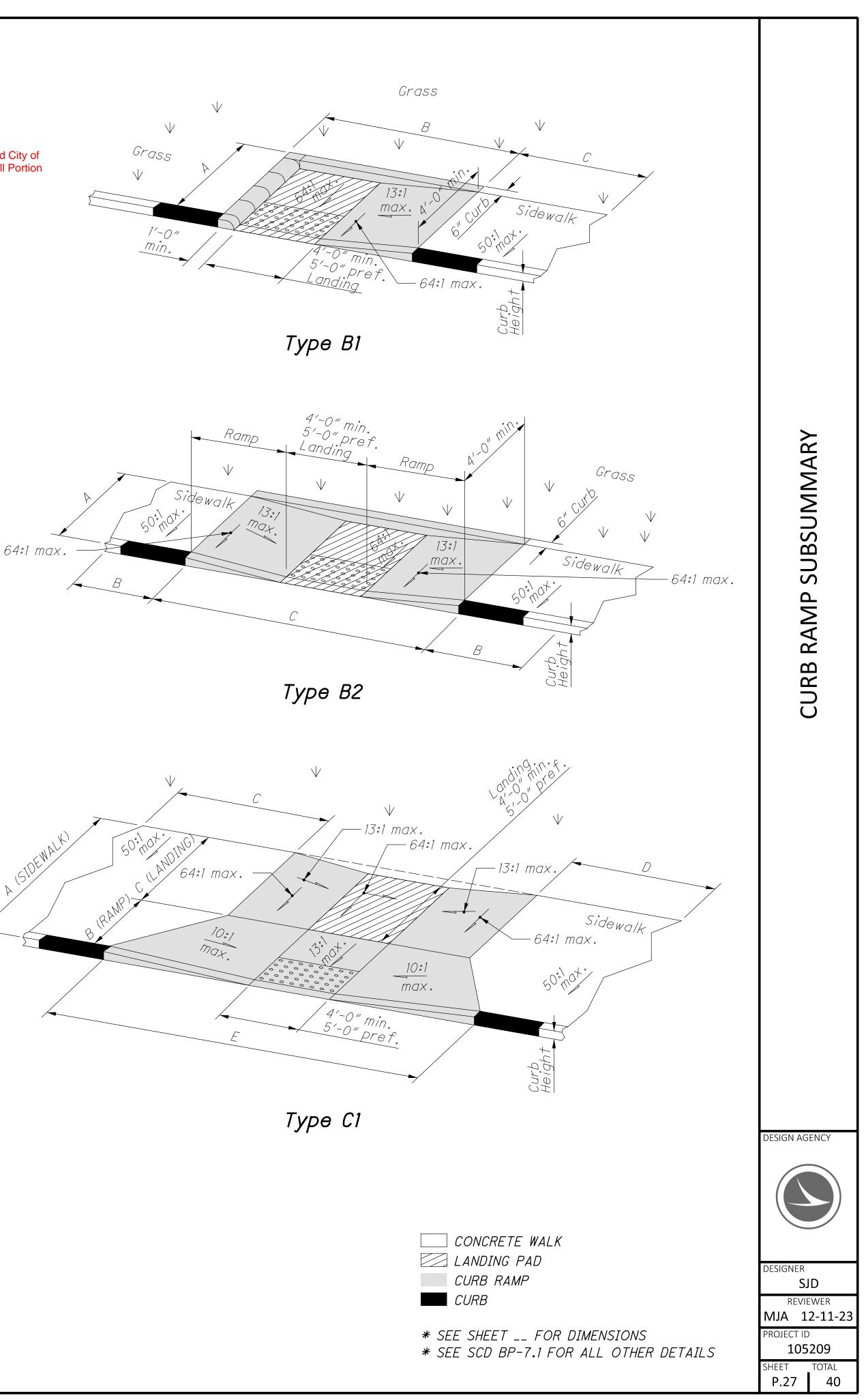
		COMMENTS	
		LANDING CROSS SLOPE LANDING CROSS SLOPE LANDING CROSS SLOPE LANDING CROSS SLOPE LANDING CROSS SLOPE LANDING CROSS SLOPE RAMP TO BE REMOVED	IARY
		RAMP TO BE REMOVED	Σ
			SI
			В
			CURB RAMP SUBSUMMARY
			DESIGN AGENCY
			designer SJD
			REVIEWER
			MJA 12-11-23
			PROJECT ID 105209
			SHEET TOTAL
			P.26 40
1	I	1	

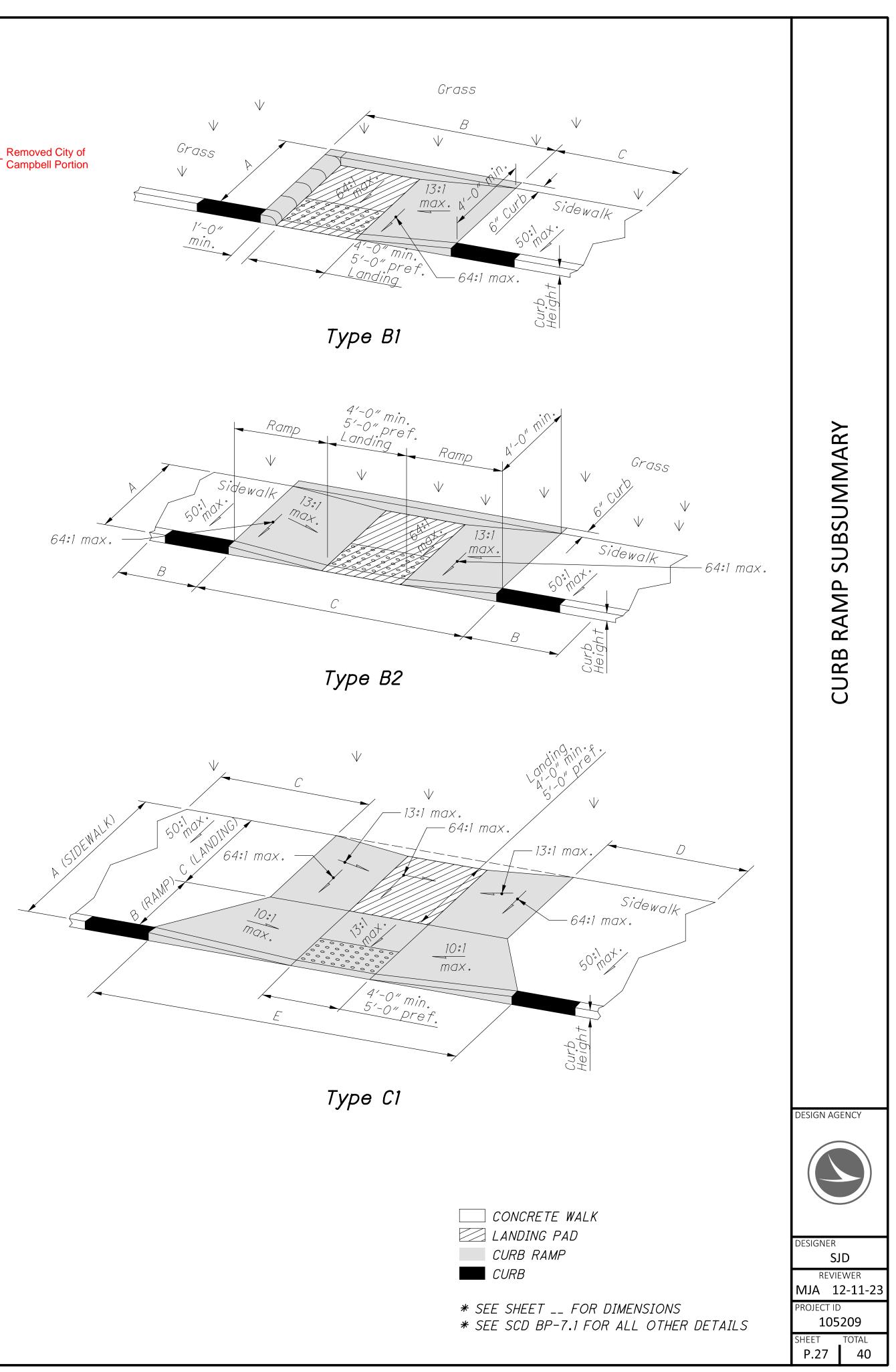
MAIN ROUTE	INTERSECTION ROUTE	DESIGN SHEET	QUADRANT	CURB RAMP TYPE		P
		\sim		\cdots		᠆᠆᠂᠂ᡐ
m	uuuuu					
US 422	SR 616		FL	B2	4	5
			FL	B2	4	5
			FL FR	B2 B2	4	5 5
			FR	B2	4	5
			FR FR	B2 B2	4 4	5 5
			FR FR RR RR	B2 B2 B2 B2	4 4 4 4	5 5 5 5
US 422	PURPLE CAT (SLM 8.46)		FR FR RR	B2 B2 B2	4 4 4	5 5 5

2/5/2025

DATE:







		LOCA	ATION	* * * * * * * * * * * * *	* * * * * * * * *	621
	COUNTY	ROUTE	(S.I	TION M.)		RPM (YELLOW/YELLOW)
			FROM	TO		EACH
	MAH	SR 616	3.82	4.53		48
	МАН	SR 616	3	.82		
	МАН	SR 616	4	.27		
	МАН	US 422	7.58	10.14		174
		US 422		.58		5
						<u> </u>
	01.dgn					
	- 12209					
	eets/10					
	ay\Sh					
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. 2/5/2	evin 					
DATE	101 Ac					
(in.)	Imments					
-7.58/3.81	2\Doct					
SIZE:	pt-pw-0					
MAH-422/616-7.58/3 MODEL: RPM Subsummary PAPERSIZE: 34x22 (in.)	pw://ohiodot-pw.bentley.com.ohiodot-pw.02/Documents/01 Active Projects/District 04/Mahoning/105209/400-Engineering/Roadway/Sheets/105209_RPM001.dgn					
2/6 mary 1	۰.com					
12 ²	pentle					
S MAS	lot-pw.					
1AI	Nohioc					
	TOTALS CARRIED TO GEN	ERAL SUMMARY				236

	621	621	621	621	· · · ·	621 ¹	
						RAISED PAVEMENT MARKER REMOVED	
	(MC			$\widehat{\mathbf{O}}$		REN	Removed City of Campbell Portion
	VELLO	RPM (WHITE/RED)	TE)	RPM (YELLOW/RED)		RKER	Campbell Portion
		HITE	RPM (WHITE)	TOW		MA	
	, AELLO	N) V	Md	l (YEI		AENT	
	RPM (YELLOW/YELLOW)	RPN		RPN		AVEN	
						SED P	
						RAIS	
	EACH	EACH	EACH	EACH		EACH	
	48					38	
			10			12	
			16 16			13 13	INTERSECTION APPROACH AT SR 616/COY ST. INTERSECTION APPROACH AT SR 616/STRUTHE
						2	
	174 5	269 10	16			354 24	INCLUDES EASTBOUND AND WESTBOUND LAN INTERSECTION APPROACH AT US 422/SR 616
	9					-	
	226	200				100	
	236	286	64			469	

REMARKS	
IERS-COITSVILLE RD	
NE LINES AND SR 616/SR422 APPROACHES	
	ARY
	Σ
	Σ
	RPM SUBSUMMARY
	PP
	DESIGN AGENCY
	designer SJD
	REVIEWER MJA 12-11-23
	PROJECT ID 105209
	SHEET TOTAL P.28 40

Removed City of

СТҮ	ROUTE TRUE LOG	FROM	TRUELO			ТО			ITE EDGE LINE, HIGHWAY		YELL	OW EDGE LINE, HIGHWAY					CON	MMENTS		Z
MAH		CTION OF US 422 AND SR 616	10.14		SYLVANIA STATI	E LINE		5.12	5.12											
MAH		CTION OF SR 616 AND COY ST.	4.46					1.28	1.28											\rightarrow
TAL								6.40	6.40											
			1					LANE												
СТҮ	ROUTE TRUE LOG	FROM	TRUE LO)G	-	ТО		TOTAL MILES	6" LAN DASHED	SOLID						COMMENTS	5			
MAH	422 7.58		10.14					5.12	5.12											-
																				\rightarrow
TAL								5.12	5.12											
								CENTE	RLINE											3
СТҮ	ROUTE TRUE LOG	FROM	TRUELO			ТО		TOTAL MILES	EQUIV SOLID							COMMENTS	5			Ž
MAH		CTION OF US 422 AND SR 616	10.14		SYLVANIA STATI			2.56	1.0											
MAH	616 3.82 INTERSEC	CTION OF SR 616 AND COY ST.	4.46	ROBINSON F	(D .			0.64	0.6	03										
																				\rightarrow
DTAL								3.20	1.7	72										
				* 24" HIGH	VISIBILITY			AUXI	LIARY											3
			CHANNEL STOP		1	SE DIAGONAL NES	ISLAND		VBOL MARKIN		TURN	LANE AR TURN		00145	REDUCT.		ON PVMT NLY			7
СТҮ	ROUTE LOCATION	LOG FT	LINE, 12" LINE FT FT	WALK LINES	WHITE	YELLOW	– MARKING SF	RxR EACH	72" EACH	96" EACH	LEFT EACH	RIGHT EACH	THRU EACH	COMB. EACH	ARROW EACH	72" EACH	96" EACH	– LINES, 6" FT	COMMENTS	X
MAH	US 422 AT SR 616	7.580	350 94	161							8									
MAH	US 422 AT VICTORY CHURCH OH	7.770									-	3								
MAH MAH	US 422 AT PA STATE LINE SR 616 AT COY ST.	10.140 3.820	230 12								3									
MAH	SR 616 AT COIT ROAD	4.260	12																	
								'				I								
																				PI

 6" LANE LINE		TOTAL MILES	ТО	
SOLID	DASHED	TOTAL MILLS	10	18
	5.12	5.12		
	5.12	5.12		

ТО	TOTAL MILES	EQUIVALENT SOLID LINE	С
NIA STATE LINE	2.56	1.08	
	0.64	0.63	
	3.20	1.72	

ANSVERSE DIAGONAL LINES			SYI	MBOL MARKIN	GS		LANE A	RROWS		DEDUCT	
			MARKING		DvD	SCH	OOL	TURN	TURN	TUDU	COMP
NHITE	YELLOW	RxR		72"	96"	LEFT	RIGHT	THRU	COMB.		
FT	FT	SF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
						8					
							3				
						3					
											-
						11					<u> </u>
<u>, , , , , , , , , , , , , , , , , , , </u>											2