# ..50/VAR SUM-241-

# **LOCATION MAP**

LATITUDE: 40°58'25.53" LONGITUDE: 81°27'52.22"

PORTION TO BE IMPROVED .\_\_\_\_\_

FEDERAL ROUTES .\_\_\_\_\_

COUNTY & TOWNSHIP ROADS \_\_\_\_\_\_

OTHER ROADS \_\_\_\_\_\_\_

DESIGN HOURLY VOLUME (2023)\_\_\_\_\_\_ 1293

DIRECTIONAL DISTRIBUTION \_\_\_\_\_ 56%

DESIGN SPEED \_\_\_\_\_ 35

LEGAL SPEED \_\_\_\_\_ 35

NHS PROJECT \_\_\_\_\_ YES

TRUCKS (24 HOUR B&C) \_\_\_\_\_\_ 317 (3%)

**DESIGN DESIGNATION (SR-241)** 

### STATE OF OHIO DEPARTMENT OF TRANSPORTATION

END PROJECT SUM SR 241 SLM: 7.79

BEGIN PROJECT

SUM SR 241: SLM 1.50

# SUM-241-1.50/VAR

CITY OF GREEN SPRINGFIELD TOWNSHIP SUMMIT COUNTY

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#### FEDERAL PROJECT NUMBER

E200177

#### RAILROAD INVOLVEMENT

NONE

#### PROJECT DESCRIPTION

RESURFACING OF SUM SR 241, INCLUDES URBAN PAVING IN THE CITY OF GREEN, AND MINOR WORK TO 1 STRUCTURE.

#### EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 2.54 ACRES 0.25 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: NOTICE OF INTENT EARTH DISTURBED AREA:

N/A (NOI NOT REQUIRED)\*

#### **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.

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.

Arthur G. Noirot Jr., P.E. District 04 Deputy Director

Director, Department of Transportation

#### **DESIGN EXCEPTIONS**

DESIGN FUNCTIONAL CLASSIFICATION:

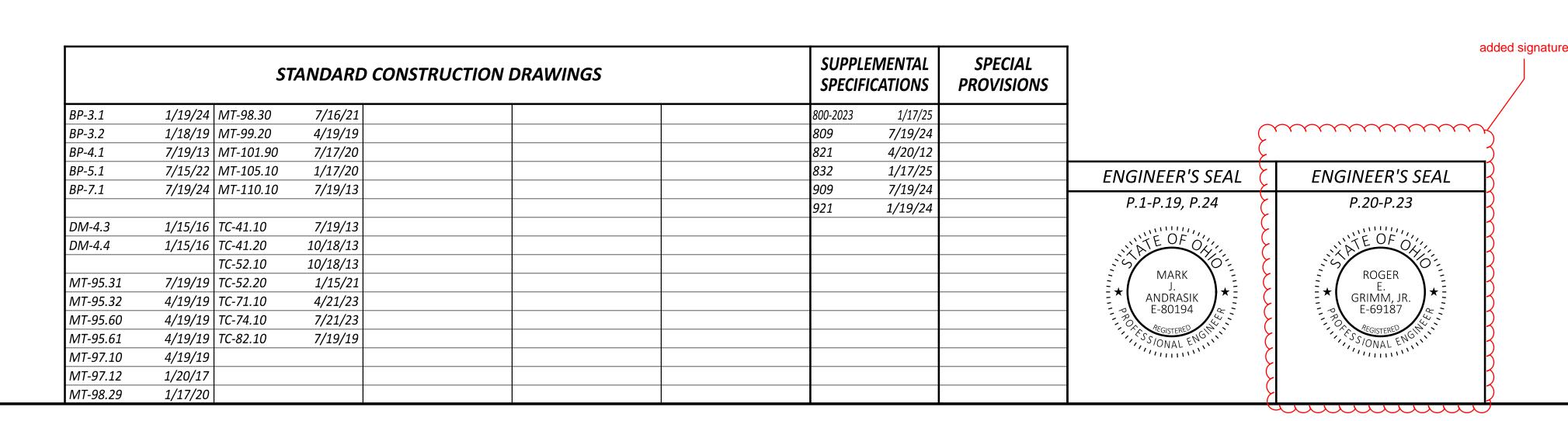
URBAN, OTHER, PRINCIPAL ARTERIAL

#### ADA DESIGN WAIVERS

NONE



PLAN PREPARED BY: ODOT DISTRICT 4, CAPITAL PROGRAMS 2088 S. ARLINGTON ROAD AKRON, OHIO 44306





ESIGNER CLG MJA 10-30-24 ROJECT ID

105241

#### 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 EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN ON THE PLANS, BUT CAN BE OBTAINED FROM THE OWNERS OF THE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

#### **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:

ROUTE S.L.M. TO S.L.M. LANE WIDTH SR 241 1.495 3.497 12' SR 241 3.819 4.002 11' SR 241 4.734 6.700 12' SR 241 6.700 7.792 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

INTERSECTIONS WILL BE RESURFACED 10 FT. BEYOND THE EDGE LINE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR INDICATED IN THE PLAN. INTERSECTIONS SHALL BE PAVED AFTER COMPLETION OF THE SURFACE COURSE. A BUTT JOINT, AS PER STANDARD CONSTRUCTION DRAWING BP-3.1, SHALL BE USED TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING PAVEMENT. USE THE SAME ASPHALT CONCRETE AS THE MAINLINE PAVEMENT UNLESS SHOWN OTHERWISE ON THE ASPHALT CONCRETE CALCULATIONS SHEET. ANY GRADING OR PRIME NECESSARY TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE COST OF THE PERTINENT BID ITEM.

#### **DRIVEWAYS**

THE CONTRACTOR WILL NOT BE PERMITTED TO LEAVE A
DIFFERENCE IN ELEVATION BETWEEN THE MAINLINE ASPHALT
SURFACE COURSE AND THE EXISTING DRIVEWAYS. IF
APPROVED BY THE ENGINEER, AN ASPHALT WEDGE WITH A
MINIMUM WIDTH OF 2' MAY BE PLACED EITHER ON THE
ROADWAY SHOULDER OR DRIVEWAY DEPENDENT UPON WHICH
SIDE IS HIGH. A QUANTITY OF MAINLINE SURFACE
COURSE ASPHALT HAS BEEN PROVIDED IN THE CALCULATIONS
AND GENERAL SUMMARY TO PERFORM THIS ITEM OF WORK.

IN THE EVENT THAT THE ENGINEER DETERMINES ADDITIONAL WORK IS NECESSARY TO PROPERLY ADDRESS FIELD CONDITIONS, AN ITEM FOR WEARING COURSE REMOVED HAS BEEN PROVIDED. THE REMOVAL DEPTH IS DEPENDENT UPON THE ELEVATION DIFFERENCE AND ALLOW FOR 1"-2" OF COMPACTED ASPHALT MATERIAL TO BE PLACED.

#### 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 MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS 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:

SIE	VE	TOTAL PERC	ENT PASSIN
1- 2	1/2"	100	
3/	<b>4</b> "	<i>50-100</i>	
NO	. 4	<i>35-70</i>	
NO	. 30	9-33	
NO	. 200	0-13	

#### 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.

#### ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441)

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE
AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST
OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE
DETERIORATION AND PLACING ITEM 441 ASPHALT CONCRETE,
TYPE 2. IT IS NOT THE INTENT TO REPAIR EVERY
DETERIORATED AREA WITHIN THE PROJECT. PAVEMENT
REPAIRS WILL BE MARKED IN THE FIELD BY THE PROJECT
ENGINEER ACCORDING TO CMS 251.02. MINIMUM WIDTH
IS 2'. UNLESS OTHERWISE DIRECTED BY THE ENGINEER,
THIS ITEM SHALL BE PERFORMED AFTER THE COMPLETION
OF MAINLINE PAVEMENT PLANING AND PRIOR TO THE
PLACEMENT OF ASPHALT ON THE MILLED SURFACE.
PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF
SQUARE YARDS OF PAVEMENT REPAIR.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

251, PARTIAL DEPTH PAVEMENT REPAIR (441), 1580 SQ. YD. (SLM 1.50 TO SLM 3.50, SLM 3.82 TO SLM 4.00, SLM 4.74 TO SLM 5.63)

251, PARTIAL DEPTH PAVEMENT REPAIR (441), 420 SQ. YD. (SLM 5.63 TO SLM 7.79)

#### ITEM 253 - PAVEMENT REPAIR

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF CUTTING AND REMOVING DETERIORATED PAVEMENT FULL DEPTH AND PLACING 12" 301 ASPHALT CONCRETE BASE, PG64-22. THE MAXIMUM COMPACTED DEPTH OF ANY ONE LAYER SHALL BE 6 INCHES. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER THE COMPLETION OF MAINLINE PAVEMENT PLANING AND PRIOR TO THE PLACEMENT OF ASPHALT ON THE MILLED SURFACE.

IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED

AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE

WHICH AREAS ARE TO BE REPAIRED. PAYMENT SHALL BE BASED

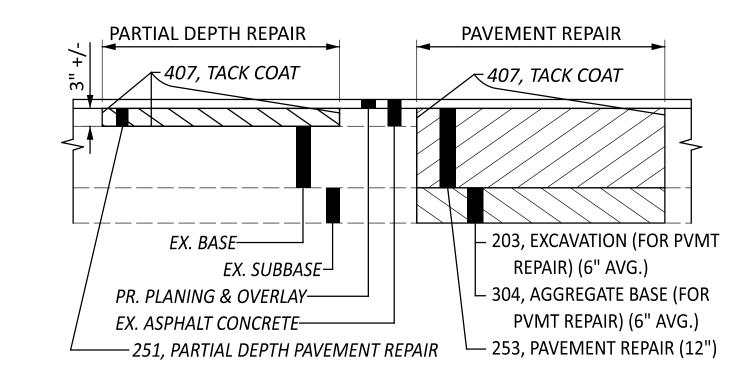
ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REMOVED

AND REPLACED TO THE LIMITS DESIGNATED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

253, PAVEMENT REPAIR, 316 SQ YD (SLM 1.50 TO SLM 3.50, SLM 3.82 TO SLM 4.00, SLM 4.74 TO SLM 5.63)

253, PAVEMENT REPAIR, 84 SQ YD (SLM 5.63 TO SLM 7.79)



#### ITEM 304 - AGGREGATE BASE (FOR PAVEMENT REPAIR)

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED AND SHALL BE USED AS DIRECTED BY THE ENGINEER TO BACKFILL AREAS WHICH WERE EXCAVATED UNDER ITEM 203 EXCAVATION (FOR PAVEMENT REPAIR). THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

304, AGGREGATE BASE (FOR PAVEMENT REPAIR) 24 CU YD

#### ITEM 203 - EXCAVATION (FOR PAVEMENT REPAIR)

THIS ITEM OF WORK SHALL CONSIST OF REMOVING AND DISPOSING OF ALL UNSUITABLE MATERIAL BY EXCAVATING THE EXISTING SUBGRADE AND SUBBASE TO AN AVERAGE DEPTH OF 6 INCHES OR AS DIRECTED BY THE ENGINEER. EXACT LIMITS OF REMOVAL SHALL BE DETERMINED BY THE ENGINEER. ALL EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203 EXCAVATION (FOR PAVEMENT REPAIR). THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY: 203, EXCAVATION (FOR PAVEMENT REPAIR) 24 CU YD

#### MANHOLE RECONSTRUCTED TO GRADE (@ SLM 1.58)

AN ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR RECONSTRUCTING A MANHOLE TO GRADE ON THE NORTHBOUND SIDE AT SLM 1.58.

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 – MANHOLE RECONSTRUCTED TO GRADE, 2 EACH ITEM SPECIAL – MISCELLANEOUS METAL, 400 LB

#### ITEM 253 - PAVEMENT REPAIR (@ SLM 1.58)

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF CUTTING AND REMOVING DETERIORATED PAVEMENT FULL DEPTH AND PLACING 12" 301 ASPHALT CONCRETE BASE, PG64-22. THE MAXIMUM COMPACTED DEPTH OF ANY ONE LAYER SHALL BE 6 INCHES. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER THE COMPLETION OF MAINLINE PAVEMENT PLANING AND PRIOR TO THE PLACEMENT OF ASPHALT ON THE MILLED SURFACE.

IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED

AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE

WHICH AREAS ARE TO BE REPAIRED. PAYMENT SHALL BE BASED

ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REMOVED

AND REPLACED TO THE LIMITS DESIGNATED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

253, PAVEMENT REPAIR (@ SLM 1.58), 26 SQ YD

(8' LONG X FULL PAVEMENT WIDTH)

DESIGN AGENCY



DESIGNER
CLG
REVIEWER
MJA 10-30-24
PROJECT ID
105241

P.4 24

SUM SR 241 & GREENSBURG RD.

#### ITEM 809 – STOP-LINE RADAR DETECTION, AS PER PLAN ITEM 809 – ADVANCE RADAR DETECTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING STOP-LINE RADAR DETECTION - WAVETRONIX SMARTSENSOR MATRIX DETECTION UNIT OR ADVANCE RADAR DETECTION - WAVETRONIX SMARTSENSOR ADVANCE DETECTION UNIT (MODEL SS-200E). THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

- 1) POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
- 2) ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.
- 3) THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.
- 4) SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.
- 5) THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE

  DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE

  TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.

  6) A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND
- 6) A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MIN. 7 FEET)
- 7) THE POWER SUPPLY AND COMMUNICATION MODULES SHALL
  BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR
  TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG
  STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES.
  ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION
  MODULES, AS NECESSARY.
- 8) THE CONTRACTOR SHALL INSTALL THE RADAR DETECTION PRIOR TO MILLING/DISABLING THE EXISTING LOOPS.
- 9) THE INSTALLATION SHALL INCLUDE ALL CONTROLLER
  PROGRAMMING FOR COMPLETE INSTALLATION, WHICH INCLUDES
  MODIFICATIONS FOR REMOVAL OF EXISTING DETECTION.
- 10) THE CONTRACTOR SHALL CONTACT THE DISTRICT OFFICE (330-786-2267) AND THE CITY OF GREEN (PAUL PICKET 330-896-5510) THREE WORKING DAYS PRIOR TO INSTALLING THE DETECTION TO REMOVE THE CABINET LOCKS. ANY LOOP DETECTORS DISTURBED BY THE PLANING SHOULD BE ABANDONED IN PLACE.
- 11) THE CONTRACTOR SHALL DISCONNECT AND LEAVE THE LOOP DETECTOR AMPLIFIERS IN THE CONTROLLER.

PAYMENT FOR EACH DETECTION UNIT SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT AND CONNECTIONS TESTED AND ACCEPTED, AND ANY OTHER NECESSARY HARDWARE TO ESTABLISH A FULLY FUNCTIONAL DETECTION SYSTEM.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

(330-786-3146) THREE WORKING DAYS PRIOR TO ANY PLANING OR TRENCHING AT THE INTERSECTION OF SR 241 AND GREENSBURG RD. 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

ITEM 632 - DETECTOR LOOP, AS PER PLAN (ALTERNATE 1)

THE CONTRACTOR SHALL CONTACT THE DISTRICT OFFICE

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 ITEMS.

TC-82.10 AND THE LOOP SHALL BE PLACED AT THE SAME LOCATION

632 DETECTOR LOOP, AS PER PLAN, 4 EACH (4 EACH, POWERHEAD)

#### **BARRIER REFLECTORS**

AS THE EXISTING LOOPS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS DIRECTED BY THE ENGINEER FOR INSTALLING/REPLACING BARRIER REFLECTORS ON ALL EXISTING BARRIER RUNS WITHIN THE PROJECT LIMITS.

202, REMOVAL MISC.: BARRIER REFLECTOR, 7 EACH (SLM 1.50 TO SLM 3.50, SLM 3.82 TO SLM 4.00, SLM 4.74 TO SLM 5.63)

202, REMOVAL MISC.: BARRIER REFLECTOR, 5 EACH (SLM 5.63 TO SLM 7.79)

626, BARRIER REFLECTOR, TYPE 1, 1WAY, 14 EACH (SLM 5.63 TO SLM 7.79)

626, BARRIER REFLECTOR, TYPE 2, 1WAY, 27 EACH
(SLM 1.50 TO SLM 3.50, SLM 3.82 TO SLM 4.00, SLM 4.74 TO SLM 5.63)

626, BARRIER REFLECTOR, TYPE 2, 1WAY, 16 EACH (SLM 5.63 TO SLM 7.79)

#### ITEM SPECIAL - VERTICAL CLEARANCE

AFTER ALL CONSTRUCTION HAS BEEN COMPLETED, A REGISTERED SURVEYOR WILL TAKE VERTICAL CLEARANCE MEASUREMENTS AT LOCATIONS INDICATED ON THE APPROVED ODOT FORM (AVAILABLE IN THE DISTRICT 4 STRUCTURES AND PAVEMENT OFFICE). THE FINAL MEASUREMENTS SHALL BE RECORDED ON THE FORM AND SUBMITTED TO THE PROJECT ENGINEER AND THE DISTRICT 4 STRUCTURES AND PAVEMENT ENGINEER. THE RECORD SHALL BEAR THE SEAL OF THE LECENSED SURVEYOR WHO HAS TAKEN THE MEASUREMENTS. THIS WORK SHALL BE PERFORMED AT THE FOLLOWING STRUCTURES: SUM-77-0451L, SUM-77-0451R

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

SPECIAL - VERTICAL CLEARANCE, 2 EACH

#### **PAVED MAILBOX APPROACHES**

ALL EXISTING MAIL BOX APPROACHES WILL BE PAVED WITH ASPHALT CONCRETE. THE BUILDUP OF THE ASPHALT PAVEMENT SHALL MATCH THE MAINLINE PAVING. THE LIMITS OF THE PAVING SHALL MATCH THE EXISTING MAILBOX APPROACH LIMITS. PAYMENT FOR THE WORK SHALL BE INCLUDED IN THE MAINLINE PAVING QUANTITIES. SEPARATE QUANTITIES FOR THE MAILBOX APPROACHES ARE NOT PROVIDED.

#### ITEM 608 - CURB RAMP, AS PER PLAN

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

 $\sim$ 

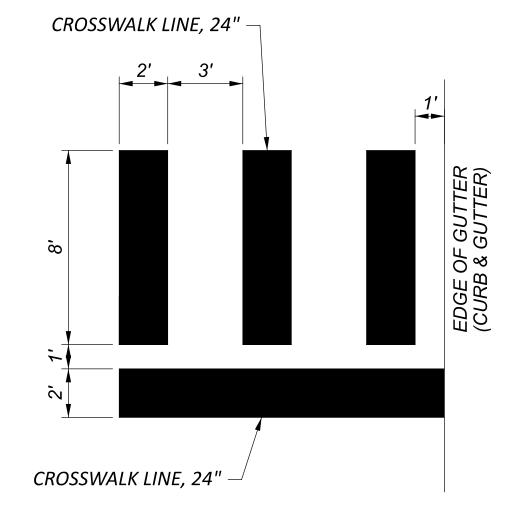
IN ADDITION TO THE CMS REQUIREMENTS OF ITEM 608 CURB RAMP, THIS ITEM SHALL INCLUDE THE RESTORATION OF THE ADJACENT AREAS DISTURBED FOR THE INSTALLATION OF CURB RAMPS AND IMMEDIATELY ADJACENT CONCRETE WALK. RESTORATION SHALL INCLUDE PLACEMENT OF ITEM 659 TOPSOIL, ITEM 659 COMMERCIAL FERTILIZER, ITEM 659 SEEDING AND MULCHING, AND ITEM 659 WATER, ALL PER CMS.

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THE WORK DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PID PRICE FOR ITEM 608 - CURB RAMP, AS PER PLAN.

#### ITEM 646 - CROSSWALK LINE, 24", AS PER PLAN

THE CONTRACTOR SHALL REPAINT THE CROSSWALKS AT THE LOCATIONS SPECIFIED IN THE PAVEMENT MARKINGS SUBSUMMARY TABLE AS PER THE BELOW DETAIL AFTER PAVING.

ALL CROSSWALK LINES SHALL CONFORM TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. QUANTITIES FOR THIS TYPE OF CROSSWALK CAN BE FOUND IN THE PAVEMENT MARKINGS SUBSUMMARY TABLE ON SHEET P.18. THESE QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.



added note

DESIGN AGENCY



CLG

REVIEWER

MJA 10-30-24

PROJECT ID

105241

P.6 24

**INTERSECTION** NB, SB SR 241 NB, SB SR 241 SUM SR 241 & KILLIAN RD. SUM SR 241 & KILLIAN RD. EB, WB KILLIAN RD. N/A SUM SR 241 & KRUMROY RD. NB, SB SR 241 NB, SB SR 241 SUM SR 241 & KRUMROY RD. N/A EB, WB KRUMROY RD. SUM SR 241 & GREENSBURG RD. N/A NB, SB SR 241 NB, SB SR 241

EB, WB GREENSBURG RD.

EB, WB GREENSBURG RD.

## 0 5 4 M

#### ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

(THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 24 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.)

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

(THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION. MESSAGE CHANGES. MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.) THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE. WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 8 SIGN MONTH ASSUMING 2 PCMS SIGN(S) FOR 4 MONTH(S)

#### TIME LIMITATION, CURB RAMP

THE MAXIMUM ALLOWABLE TIME FOR THE CONTRACTOR TO HAVE AN INDIVIDUAL CURB RAMP AND ASSOCIATED SIDEWALK LEADING INTO THE CURB RAMP OUT OF SERVICE FOR THE REMOVAL AND REPLACEMENT SHALL BE 14 CONSECUTIVE CALENDAR DAYS (THE TIME PERIOD INCLUDES ALL WORK LISTED IN THE BASIS OF PAYMENT PER CMS 608.09, INCLUDING ALL REMOVAL, REPLACEMENT, AND BACKFILL ASSOCIATED WITH THE CURB RAMPS, AND CURING TIME PERIOD).

AT THE CONCLUSION OF CONSTRUCTING OF THE CURB RAMP AND PRIOR TO OPENING TO PEDESTRIAN TRAFFIC THE CONTRACTOR SHALL ENSURE THAT THE REQUIREMENTS OF STANDARD CONSTRUCTION DRAWING BP-7.1 ARE MET. THE CONTRACTOR SHALL USE ASPHALT AS A WEDGE, OR SUBMIT ANOTHER METHOD APPROVED BY THE ENGINEER, TO ENSURE THE TRANSITION FROM THE CURB RAMP TO THE ROADWAY ARE PER STANDARD CONSTRUCTION DRAWING BP-7.1. ALL COSTS TO PERFORM THIS WORK SHALL BE INCIDENTAL TO THE ASSOCIATED PAY ITEMS FOR THE INSTALLATION OF THE CURB RAMP.

SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$1000 PER DAY PER AFFECTED RAMP THAT THE AFFECTED CURB RAMP REMAINS OUT OF SERVICE BEYOND 14 CONSECUTIVE CALENDAR DAYS.

updated note

#### 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)* **THANKSGIVING** MEMORIAL DAY FOURTH OF JULY (OBSERVED) LABOR DAY CHRISTMAS DAY (OBSERVED)

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 MONDAY (TOTAL SOLAR ECLIPSE)

12:00N MONDAY THROUGH 6:00 AM WEDNESDAY 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).

LANE VALUE CONTRACT						
DESCRIPTION OF CRITICAL LANE/ RAMP TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE \$ PER TIME PERIOD			
SR-241	AS PER MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS) NOTE ABOVE AND THE MAINTENANCE OF TRAFFIC RESTRICTIONS NOTE.	PER LANE/ PER MINUTE	\$135			
IR-77 INTERCHANGE RAMPS	AS PER THE MAINTENANCE OF TRAFFIC RESTRICTIONS NOTE.	PER RAMP/ PER MINUTE	\$200			
STEESE RD.	AS PER THE MAINTENANCE OF TRAFFIC RESTRICTIONS NOTE.	PER LANE/ PER MINUTE	\$50			

#### MAINTENANCE OF TRAFFIC RESTRICTIONS

SR 241, SLM 1.495 - APPROXIMATE SLM 2.68: WORK AT THIS LOCATION SHALL BE PERFORMED WHILE MAINTAINING ONE, TEN-FOOT MINIMUM LANE OF BIDIRECTIONAL TRAFFIC DURING OFF-PEAK HOURS AS DEFINED IN THE ITEM 614, MAINTAINING TRAFFIC NOT. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, DISINCENTIVES SHALL BE ASSESSED AS PER THE LANE VALUE CONTRACT TABLE (PN 127).

SR 241, APPROXIMATE SLM 2.68 - SLM 3.497: WORK AT THIS LOCATION SHALL BE LIMITED TO OVERNIGHT HOURS BETWEEN 7:00PM - 6:00AM. NORTH OF THE ROUNDABOUT, THE CONTRACTOR IS PERMITTED TO REDUCE SR 241 TO TWO, TWELVE-FOOT LANES OF TRAFFIC WHILE MAINTAINING ONE LANE IN EACH DIRECTION. IN THE VICINITY OF THE ROUNDABOUT, THE CONTRACTOR IS PERMITTED TO REDUCE SR-241 TO ONE. TEN-FOOT LANE WHILE MAINTAINING BIDIRECTIONAL TRAFFIC. STEESE ROAD TRAFFIC SHALL BE MAINTAINED BY FLAGGER CONTROL USING ONE, TEN-FOOT MINIMUM LANE OF BIDIRECTIONAL TRAFFIC. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, DISINCENTIVES SHALL BE ASSESSED AS PER THE LANE VALUE CONTRACT TABLE (PN 127).

SR 241, SLM 3.819 - SLM 4.002: WORK AT THIS LOCATION SHALL BE LIMITED TO WEEKEND OVERNIGHT HOURS. WHEN PERFORMING THE WORK, THE CONTRACTOR IS PERMITTED TO REDUCE SR-241 TO TWO, TWELVE-FOOT LANES OF TRAFFIC WHILE MAINTAINING ONE LANE IN EACH DIRECTION. WEEKEND OVERNIGHT LANE CLOSURES SHALL BE LIMITED TO FRIDAY, SATURDAY, AND SUNDAY BETWEEN THE HOURS OF 8:00PM - 6:00AM. SHORT DURATION CLOSURES OF THE I-77 RAMPS SHALL BE PERMITTED DURING THE WEEKEND OVERNIGHT HOURS AS APPROVED BY THE ENGINEER. INTERCHANGE RAMPS SHALL NOT BE CLOSED CONCURRENTLY. ALL LANES OF TRAFFIC SHALL BE OPEN TO TRAFFIC BETWEEN THE HOURS OF 6:00AM - 8:00PM. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, DISINCENTIVES SHALL BE ASSESSED AS PER THE LANE VALUE CONTRACT TABLE (PN 127).

SR 241, SLM 4.750 - SLM 7.792: WORK AT THIS LOCATION SHALL BE PERFORMED WHILE MAINTAINING ONE. TEN-FOOT LANE OF BIDIRECTIONAL TRAFFIC DURING OFF-PEAK HOURS AS DEFINED IN THE ITEM 614, MAINTAINING TRAFFIC NOTE. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, DISINCENTIVES SHALL BE ASSESSED AS PER THE LANE VALUE CONTRACT TABLE (PN 127).

#### DROPOFFS AT SIDE STREETS AND DRIVEWAYS

THE CONTRACTOR WILL NOT BE PERMITTED TO LEAVE A DIFFERENCE IN ELEVATION BETWEEN THE MAINLINE MILLED SURFACES AND THE SURFACE COURSE OF SIDE STREET APPROACHES/DRIVEWAYS GREATER THAN 1.25 INCH. THE CONTRACTOR SHALL PLACE A 12:1 ASPHALT WEDGE FOR ALL RESULTING ELEVATION DIFFERENCES GREATER THAN 1.25 INCH PRIOR TO OPENING TO TRAFFIC. THE PAVING OF INTERSECTION APPROACHES AND DRIVEWAYS, PER THE NOTES ON SHEET XX, SHALL BE PERFORMED WITHIN 7 DAYS OF MAINLINE SURFACE COURSE BEING APPLIED AND A DROPOFF BEING CREATED BETWEEN THE NEW SURFACE COURSE AND THE MILLED/EXISTING SIDE ROAD OR DRIVEWAY SURFACE. THE CONTRACTOR MAY ELECT TO PLACE A 12:1 ASPHALT WEDGE IN LIEU OF COMPLETING THE PAVING, HOWEVER THE ASPHALT CONCRETE USED FOR THE WEDGE SHALL BE CONSIDERED INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC AND SHALL INCLUDE THE REMOVAL OF THE WEDGE BEFORE THE INTERSECTION/DRIVEWAY IS PAVED.



ESIGNER CLG

REVIEWER MJA 10-30-24 ROJECT ID

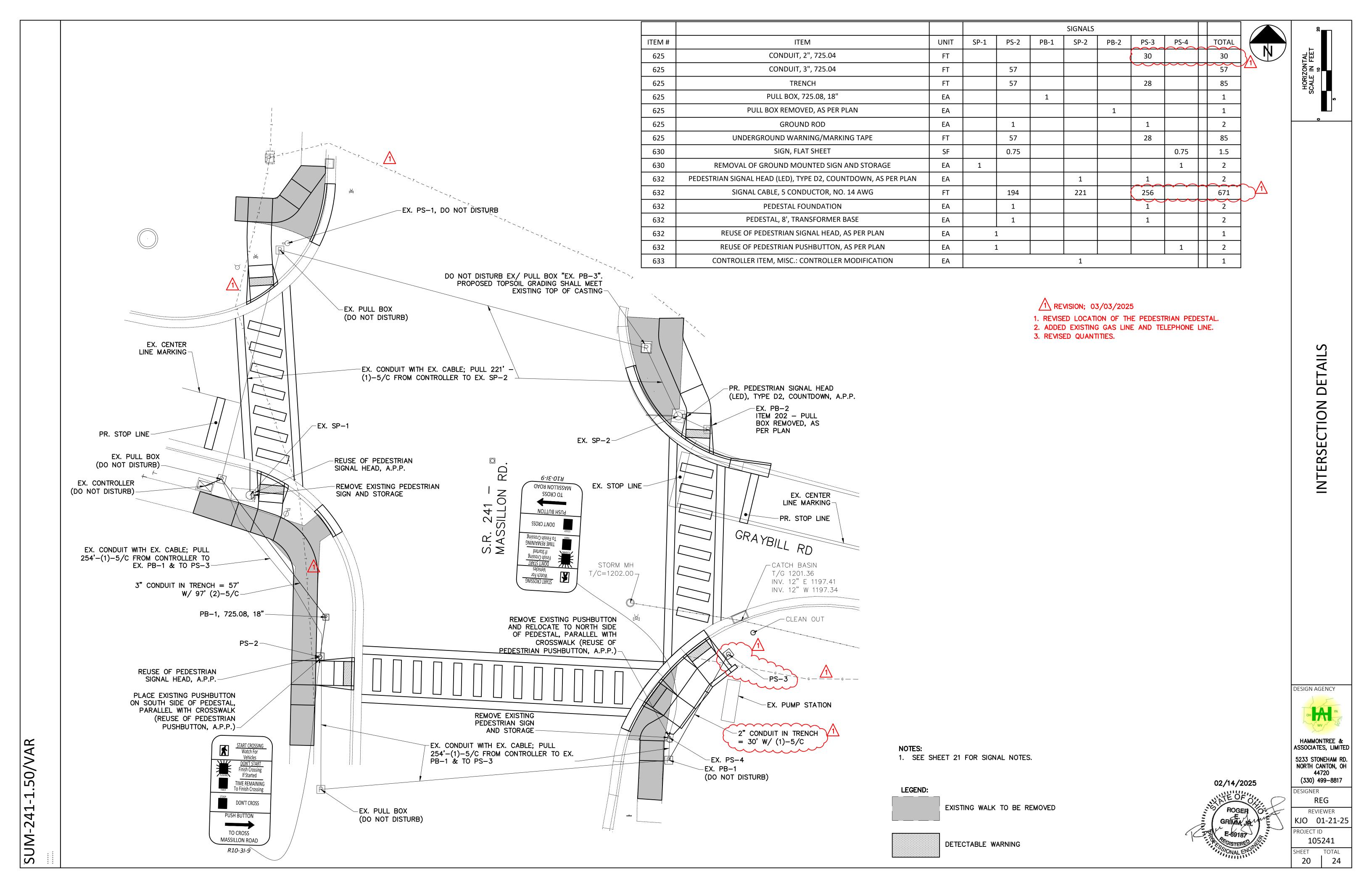
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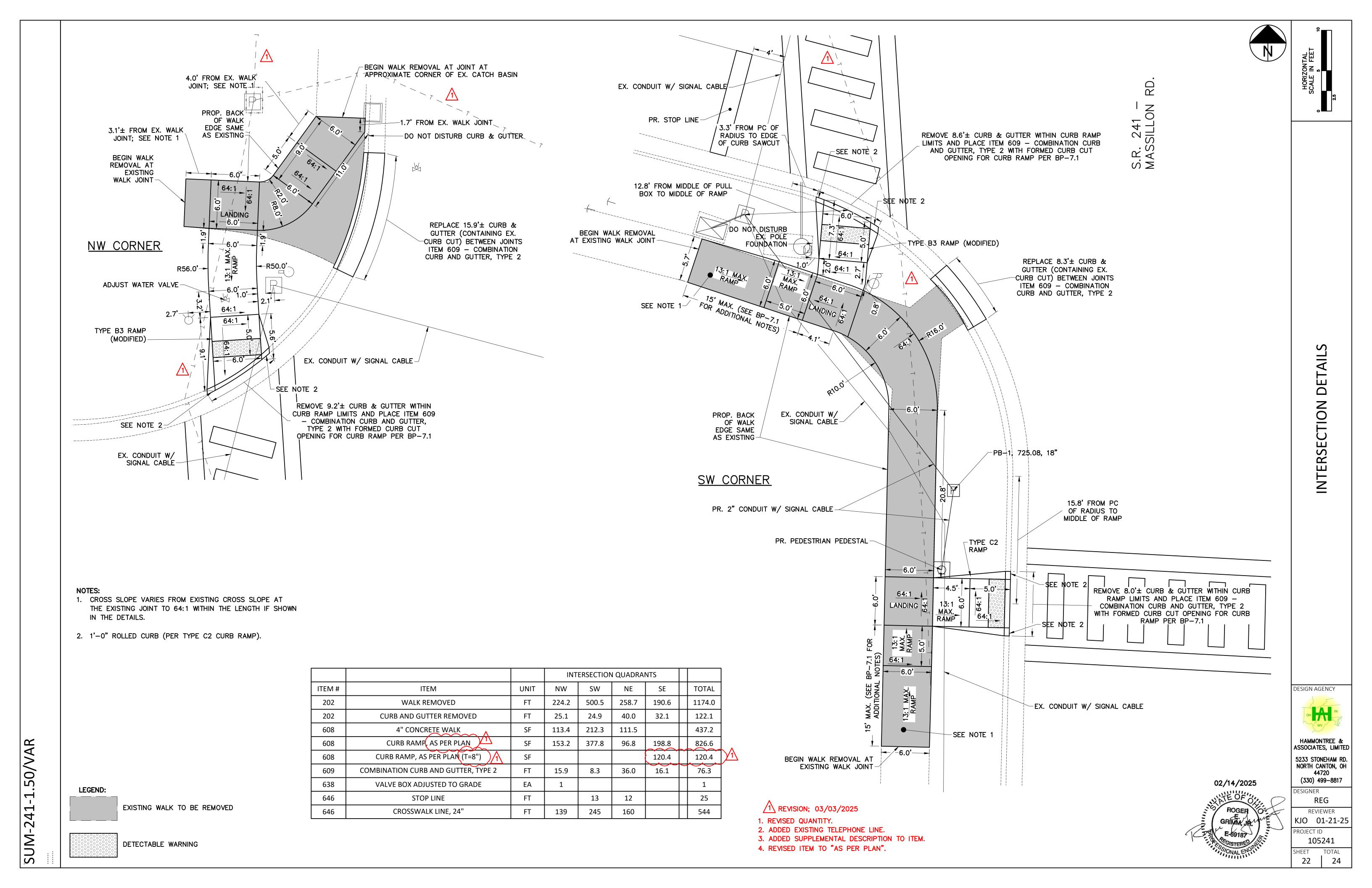
P.8 24

ESIGN AGENCY

SHEET NUM. GRAND PART. ALT ITEM SEE UNIT **DESCRIPTION** SHEET NO EXT TOTAL 20 01/NHS/05 02/NHS/05/GREE<mark>03/NHS/04/GREE</mark> **ROADWAY** 540 202 23500 WEARING COURSE REMOVED 6,702 5,528 1,174 6,702 202 30000 WALK REMOVED 32 32 202 32000 32 CURB REMOVED 305 123 202 32500 428 CURB AND GUTTER REMOVED 12 202 98100 12 **EACH** REMOVAL MISC.: BARRIER REFLECTOR 203 24 EXCAVATION (FOR PAVEMENT REPAIR) 10000 163 105 58 209 60200 163 STA LINEAR GRADING 4" CONCRETE WALK 3,090 438 3,528 10000 3,528 52001 3,189 CURB RAMP, AS PER PLAN 2,362 121 52001 121 CURB RAMP, AS PER PLAN (T=8") 23 MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN 14 623 39501 14 LS LS **SPECIAL** LS AS-BUILT CONSTRUCTION PLANS 69091000 **SPECIAL** VERTICAL CLEARANCE 69098000 EACH **EROSION CONTROL** EROSION CONTROL 3,000 832 30000 3,000 EACH SUMMARY DRAINAGE CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN 611 98631 35 99655 35 MANHOLE ADJUSTED TO GRADE, AS PER PLAN 24 611 EACH 611 99660 EACH MANHOLE RECONSTRUCTED TO GRADE 2,000 **SPECIAL** 1,600 1,200 61199820 MISCELLANEOUS METAL **ENERAL PAVEMENT** 2,000 420 1,580 251 01000 2,000 PARTIAL DEPTH PAVEMENT REPAIR (441) 426 110 316 01000 426 253 PAVEMENT REPAIR 53,522 10,293 46,262 112,673 48,858 1,323 254 01000 PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5") 65,088 8,933 8,906 796 254 01000 9,702 PAVEMENT PLANING, ASPHALT CONCRETE (T=3") 769 AGGREGATE BASE (FOR PAVEMENT REPAIR) 24 18 304 20000 24 354 4,398 6,201 3,435 120 407 20000 10,953 GAL NON-TRACKING TACK COAT PRIME COAT, AS PER PLAN 1,521 10001 3,130 2,036 3,800 3,134 3,085 50100 6,276 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M 449 465 441 433 50300 898 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS) CY 10 70500 15 441 15 12000 305 77 382 609 382 FT COMBINATION CURB AND GUTTER, TYPE 2 32 32 609 26000 32 FT CURB, TYPE 6 247 352 164 113 617 10101 465 CY COMPACTED AGGREGATE, AS PER PLAN **WATER WORK** VALVE BOX ADJUSTED TO GRADE 638 10800 EACH 638 10 10 10801 EACH VALVE BOX ADJUSTED TO GRADE, AS PER PLAN TRAFFIC CONTROL 324 621 00100 324 EACH 54000 261 RAISED PAVEMENT MARKER REMOVED 00102 14 626 BARRIER REFLECTOR, TYPE 1, 1WAY 14 14 EACH 43 16 27 626 00110 43 EACH BARRIER REFLECTOR, TYPE 2, 1WAY 147 630 147 126 02100 GROUND MOUNTED SUPPORT, NO. 2 POST 21 36 1.5 42 1.5 630 80100 43.5 SF SIGN, FLAT SHEET 630 80100 SIGN, FLAT SHEET, 730.20 ESIGN AGENCY 21 630 18 84900 21 EACH REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL 85000 REMOVAL OF GROUND MOUNTED SIGN AND STORAGE 14 12 14 630 86002 EACH REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL 0/VA 4.32 646 10000 MILE EDGE LINE, 4" 6.1 1.62 1.62 646 10010 1.62 MILE EDGE LINE, 6" 0.93 0.93 646 10110 0.93 MILE LANE LINE, 6" ESIGNER 10200 646 1.93 2.1 1.93 4.03 CENTER LINE 2.1 MILE SBD 1,775 10300 1,775 CHANNELIZING LINE, 8" 1,775 646 REVIEWER 4 MJA 10-30-24 646 5,289 10310 CHANNELIZING LINE, 12" FT ROJECT ID MN 362 362 103 25 103 25 646 10400 490 FT STOP LINE 105241 544 544 CROSSWALK LINE, 24" 646 10520 544 P.10 24 1,556 1,556 646 10521 1,556 FT CROSSWALK LINE, 24", AS PER PLAN

P.11 24





- 4. PROPOSED GUTTER EDGE TO MATCH EXISTING PAVEMENT ELEVATIONS. BEYOND THE CROSS WALK/CURB RAMP LIMITS, THE PROPOSED GUTTER CROSS SLOPE SHALL VARY TO MEET THE EXISTING GUTTER CROSS SLOPE.
- 5. THE EAST CURB RAMP AND LANDING AND THE RAMP FROM THE WEST LANDING SHALL BE CONSTRUCTED PER ITEM 608 CURB RAMP, AS PER PLAN.
- 6. SEE SHEET 22 FOR SUB-SUMMARY.



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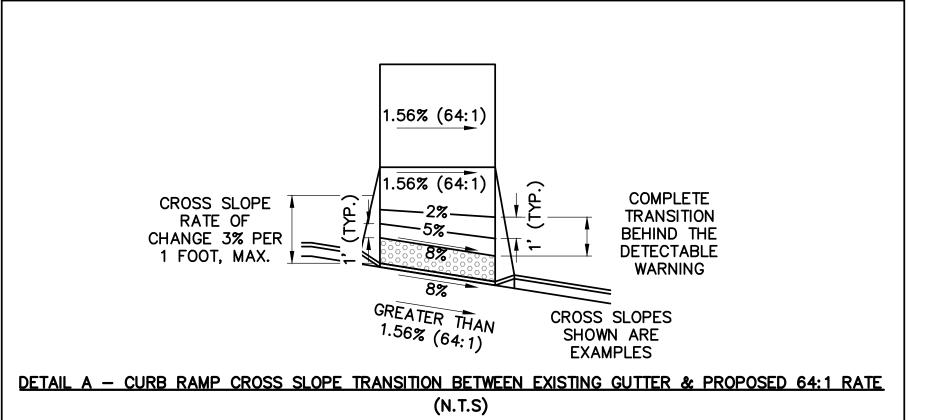
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EXISTING WALK TO BE REMOVED



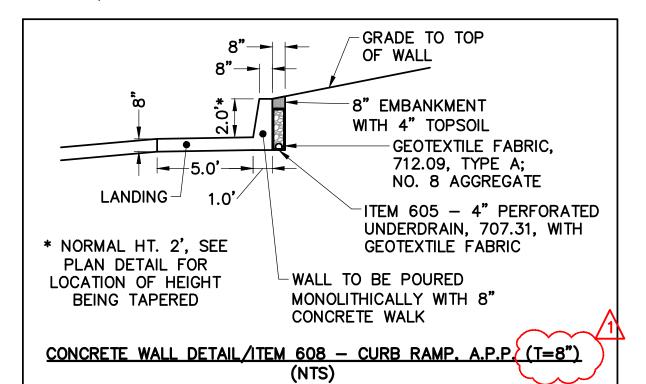
DETECTABLE WARNING

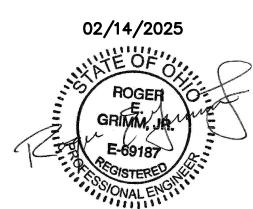


IF THE GUTTER PROPOSED/EXISTING GUTTER PROFILE ALONG THE BOTTOM OF CURB IS GREATER THAN 64:1, THE CONTRACTOR SHALL TRANSITION THE RAMP/LANDING CROSS SLOPE BEGINNING BEHIND THE DETECTABLE WARNING, TRANSITIONING THE CROSS SLOPE AT A MAXIMUM OF 3% PER FOOT OF RAMP/LANDING LENGTH.

ALL PER CMS.

PAYMENT FOR THE ABOVE WORK INCLUDING ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK, SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 608 - CURB RAMP, AS PER PLAN (T-8").





DESIGN AGENCY

HAMMONTREE & ASSOCIATES, LIMITED 5233 STONEHAM RD. NORTH CANTON, OH

PA

147

DESIGNER REVIEWER KJO 01-21-25

(330) 499-8817

ROJECT ID 105241 TOTAL

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