GEA-87-15.93

LOCATION MAP LATITUDE: 41°27'38" N LONGITUDE: 81°02'58" W PORTION TO BE IMPROVED _____= INTERSTATE HIGHWAY

FEDERAL ROUTES ________

COUNTY & TOWNSHIP ROADS ________ OTHER ROADS ______

CURRENT ADT (2021) DESIGN YEAR ADT (2042)

DESIGN HOURLY VOLUME (2042)

DIRECTIONAL DISTRIBUTION 0.53

DESIGN SPEED ______ 25/35

NHS PROJECT No

STATE OF OHIO **DEPARTMENT OF TRANSPORTATION**

GEA-87-15.93

Middlefield Village Middlefield Township **GEAUGA COUNTY**

INDEX OF SHEETS:

17.08-18.20

7100

7500

800

0.60

0.03

35/50

35/50

8,700

9,100

900

0.53

0.03

25/35

25/35

11,000

18.20-19.75

5,600

6,900

700

0.60

0.03

50

50

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FEDERAL PROJECT NUMBER

E191(582)

RAILROAD INVOLVEMENT

PROJECT DESCRIPTION

The project consists of the resurfacing of SR-87 (Kinsman Road) from the West Corporation Line to Hayes Road in the Village of Middlefield and Middlefield Township.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: N/A Maintenance Project ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A Maintenance Project NOTICE OF INTENT EARTH DISTURBED AREA: N/A Maintenance Project

2019 SPECIFICATIONS

SUPPLEMENTAL

SPECIAL

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

DESIGN EXCEPTIONS

MAJOR COLLECTOR

DESIGN FUNCTIONAL CLASSIFICATION:

DESIGN DESIGNATION

ADA DESIGN WAIVERS

REQUIRED



(Non members must be called directly) PLAN PREPARED BY:

> ODOT - District 12 Planning and Engineering 5500 Transportation Blvd. Garfield Heights, OH 44125

	STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS	
	BP-3.1	1/17/20	MT-95.10	7/21/17	TC-41.20	10/18/13		800-2019 01/21/22	
	BP-3.2	1/18/19	MT-95.50		TC-65.10	1/17/14		821 4/20/12	
-	BP-7.1	7/17/20	MT-95.60	4/19/19	TC-65.11	7/21/17		832 10/19/18	
ENGINEER'S SEAL:			MT-95.61	4/19/19	TC-71.10	7/16/21		875 1/18/19	
ENGINEER S SEAL.			MT-97.10	4/19/19	TC-74.10	7/16/21		921 4/20/12	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			MT-97.12	1/20/17	TC-82.10	7/19/19			
ERIC OF			MT-99.20	4/19/19					
1 35° 500			MT-101.90	7/17/20					
MATTHEW : KALLIO :			MT-105.10	1/17/20					
			MT-110.10	7/19/13					
1 20 00 00 145									
SONAL EN									
P 110 260 000									
DATE: 1(-23-202)									
DATE: 11-23-202									

DATE 11/17/21 MISTRICT DEPUTY DIRECTOR

APPROVED DIRECTOR, DEPARTMENT OF TRANSPORTATION



JDA MK 11/01/21 108104

GEA-87-15.93

<u>Digital Data for Material Ticketing Utilizing e-Ticketing Portal</u>

Description:

This work consists of providing digital data for piloting digital information transfer for material weight ticket information for the following:

Item 441 - Asphalt Concrete Surface course, Type 1, (446), As Per Plan, 1.5"

Item 441 - Asphalt Concrete Surface course, Type 1, (448), As Per Plan, PG64-22, 1.5"

Item 441 - Asphalt Concrete Intermediate course, Type 1, (448), As Per Plan, PG64-22. 1.0"

Item 441 - Asphalt Concrete Surface course, Type 1, (448), (Driveways), 1.5"

Provide material ticket information in a digital format directly recorded from the material loading source.

This note in no way supersedes any other commercial regulations or any other legal requirements regulating the transportation of commercial materials. This does not preclude or dismiss any requirement for paper tickets required by other rules and regulations.

Requirements:

Send digital ticket information to the Department's Digital Ticketing Portal as the individual material loads are generated and shipped to the Project. The digital material ticket shall contain information as required per the applicable material specification for weight measurement and other material characteristics.

The Department will reject any load that does not have a corresponding eTicket unless the cause is beyond the Contractor's control. In such circumstances, paper tickets may be permitted.

Setup, Calibration, and Data Integration:

Suppliers shall cooperate with the Department and the Department's eTicketing vendor to establish digital information transfer from the suppliers ticketing system to the Department's eTicketing portal. No earlier than 14 days after project execution but not later than 30 days prior to initiating Work, identify in writing the material source load read-out weighing system the supplier utilizes.

The material supplier shall cooperate with ODOT's eTicketing Portal vendor in the creation of an Application Programming Interface (API) to integrate material source load read-out data with the Department's eTicketing Portal. The Department's eTicketing portal vendor shall be responsible for leading the API creation. Upon API creation, utilize the API to provide digital material source load read-out data from the material source load read-out weighing system to the Department's eTicketing Portal.

Conduct a test of each supplier's integration with the Department's eTicketing Portal prior to shipping material to the Project. Complete test at least 14 days prior to shipping material unless otherwise approved by the Engineer. The test must involve at least four test eTickets from each supplier approved for used on the project for materials to be used on the Project. The test eTickets must accurately reflect the proper nomenclature and accuracy defined; all other categories shall be marked "TEST". After the Engineer confirms the test eTickets have been entered into the Department's eTicket Portal, void the test eTickets with the reason "Setup Testing". If any load read-out weighing system changes are intended by the supplier after the creation of the supplier specific API, coordinate with the ODOT to ensure API compatibility.

Ensure continued internet connectivity during the API usage to maintain connection the Department's eTicketing Portal During material production and delivery to the Project. Ensure delivery of eTicket prior to the material arriving on the Project, but not prior to the loading of material at the source.

Upon successful testing of the data integration, physical material tickets for the Department will not be required.

Paymen

For initial setup of the API Integration, the material vendors shall assume approximately 16 person hours and shall be considered incidental to the cost of the material. For extreme situations involving excessive establishment of the API and digital information transfer, notify the Engineer per CMS 104.02.

The cost associated with creating and maintaining an API and providing digital ticketing data is incidental to the cost of the item utilizing the material being placed.

Item 608 - Curb Ramp, As Per Plan

Under this pay item The Contractor shall be responsible for laying out and constructing American With Disabilities Act (ADA) compliant curb ramps and landing that conform to the Ohio Department of Transportation Curb Ramp Standard Drawings and Special Provisions. O.D.OT. Standard Drawing BP-7.1 shall be used as a base for the construction of the curb ramps.

The curb ramp type is subject to adjustment and/or change due to field conditions and shall be determined in the field based on best fit to field conditions. Contractor shall be responsible for verifying type of curb ramp proposed in the plans. No additional payment shall be made if the curb ramp type is changed or for field adjustments necessary for the complete installation of the curb ramp.

Any newly constructed curb ramp not meeting ADA requirements will be removed and replaced by the Contractor, at their cost, to the satisfaction of the O.D.O.T. Project Engineer.

Payment shall be measured in Square Feet for curb ramp areas as indicated on the O.D.O.T. Standard Drawing BP-7.1. Payment shall include all labor, equipment, and materials necessary to construct the new curb ramp, complete in place.

Payment includes existing ramp/sidewalk removals, surveying, construction layout, form work, replacement of bedding, placement of sidewalk and curb concrete for new ramps, and placement of new detectable warning within the proposed ramp areas.

All saw cutting, appurtenances, and other work necessary for the complete installation of the ramp is considered incidental to this item.

All topsoil, seeding, and mulching required adjacent to the curb ramp shall be considered incidental to this item.

Seeding Mix shall conform to ODOT CMS 659.08 High Quality Seeds, Class I.

Curb Ramps at intersection corners are shown on the plans for estimating purposes. Work beyond the limits of the curb ramp area shall be paid under separate pay items.

Truncated Domes are included with the cost of Item 608 - Curb Ramps, As Per Plan.

As Directed by the Engineer, Additional walk needed beyond the curb ramp area, will be paid for under Item 608 – 4" Concrete Walk, As Per Plan.

ADA Waiver

An approved ADA Design Waiver is required on this project. The following features listed below cannot feasibly be constructed to meet ADA guidelines.

ADA Design Waiver

ADA Feature	Approval Date
RMP 0007947	11/17/2021
RMP 0007948	11/17/2021
RMP 0007949	11/17/2021
RMP 0007950	11/17/2021

DESIGN AGENO



REVIEWER
EMK 11/01/21
PROJECT ID
108104
SHEET TOTAL
9A 28

Traffic Control

Item 621 - Raised Pavement Marker Removed

This item shall include the removal and disposal of RPMs.

Item 632 - Detector Loop, As Per Plan

All stop line inductance detector loops shown in the plans shall be the powerhead configuration shown on TC-82.10. The width shall be as specified on TC-82.10 and the length shall match the existing detector loop length, with a maximum length of 35°. The stop line detector loops shall not be wired to any other loops and shall have their own detector channel. 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 (A.D.D.) loop as shown on TC-82.10. Dimensions shall be as specified on TC-82.10.

System loops shall be as depicted in the plans.

All stop line detection shall be tested for a bicycle target and all dilemma detection zones shall be tested for a motorcycle target.

Install detector loops in the surface course within 72 hours of its placement.

When replacing the loop detectors, the loop detector wire shall be replaced to the pull box or pole, whichever is applicable, under Item 632 and TC-82.10. The new cable splice kits shall be included in this pay item.

The Contractor shall contact the Project Engineer and Keith Hamilton, (216) 584-2220, District 12 Traffic Engineer, seven (7) days prior to planing through an intersection to adjust signal operation as needed.

The District 12 Traffic Engineer shall concur with the location of the replacement loops. The following estimated quantity has been carried to the General Summary for use as described above:

Item 632 – Detector Loop, As Per Plan 18 Each

Detection Maintenance

If vehicle detection becomes unexpectedly disabled, requires modification, or is scheduled to be temporarily removed during the construction project, the Contractor shall immediately notify the Project Engineer and District Traffic Engineer.

If the loss of vehicle detection is known prior to the start of construction, it shall be discussed at the preconstruction meeting. At such time, the District Traffic Engineer shall advise the Project Engineer and Contractor on the appropriate action to rectify any loss of vehicle detection. This may include placing the traffic signal on minimum or maximum recall, modifying the minimum green times, and removing the malfunctioning detection from service. Where non-intrusive detection (i.e. video, radar) already exists, the Contractor shall insure that detection is operating and maintained by reconfiguring the detection units accordingly during all construction phases. This is to avoid the signal from maxing out the effected signal phase and creating unnecessary delays.

Locations where non-intrusive detection is proposed and the existing vehicle detection is to be abandon, the non-intrusive vehicle detection shall be installed, configured and made fully functional prior to the existing detection being disabled. The Contractor shall continue to maintain and modify the detection until final acceptance of the traffic signal. This is to ensure vehicle detection remains fully functional throughout construction.

		632	632
REFERENCE NO.	LOCATION	6' X 35' POWERHEAD DETECTOR LOOP	4.5' X 9' ANGULAR DESIGN DETECTION LOOP
		EACH	EACH
L-1	SR-87 EB near Ames Plaza/Market Square		1
	Through Lane, 200' West of Stop Line		
L-2	SR-87 EB at Ames Plaza/Market Square	1	
	Left Turn Lane at Stop Line SR-87 WB at Ames Plaza/Market Square		
L-3	Left Turn Lane at Stop Line	1	
	SR-87 WB near Ames Plaza/Market Square		
L-4	Through Lane, 200' East of Stop Line		1
	SR-87 EB at Springdale Avenue		
L-5	Left Turn Lane at Stop Line	1	
	SR-87 EB at Springdale Avenue		
L-6	Through Lane at Stop Line	1	
	SR-87 WB at Springdale Avenue		
L-7	Through Lane at Stop Line	1	
L-8	SR-87 WB at Springdale Avenue	1	
L-8	Left Turn Lane at Stop Line	1	
L-9	SR-87 WB near Springdale Avenue		1
L-9	Through Lane, 150' East of Stop Line		1
L-10	SR-87 WB at Lake Avenue	1	
L-10	Left Turn Lane at Stop Line	1	
L-11	SR-87 EB near SR-528		1
~	Through Lane, 250' West of Stop Line		
L-12	SR-87 WB near SR-528		1
	Through Lane, 350' East of Stop Line		
L-13	SR-528 NB at SR-87	2	
	Through Lane at Stop Line		
L-14	SR-528 SB at SR-87	2	
	Through Lane at Stop Line Extra for Damaged Apron Loops,	-	
	Use As Directed by the Engineer	2	
	OSC AS Directed by the Engineer	-	
	SUBTOTALS	13	5
	TOTAL CARRIED TO GEN. SUMMARY		8
	TOTAL CARRIED TO GER. SOMMART	1 1	-

DESIGN AGENO



DESIGNER
JDA

REVIEWER
EMK 03/03/22

PROJECT ID
108104

HEET TOTAL 10 28

Pavement Subsummary

DES**I**GN AGENCY



DESIGNER
JDA
REVIEWER
EMK 11/01/21
PROJECT ID
108104

16 28