

GENERAL

Project Description

This project consists of the replacement of median barrier and lighting upgrade along I-90 from CEI Intake Bridges to E.140th Street in the Cities of Bratenahl and Cleveland.

Existing Typical Sections

Existing typical sections have been taken from the records and are believed to represent the existing pavement, but the State of Ohio does not guarantee the accuracy of the same.

For further information regarding the existing typical sections, the Contractor shall refer to the previous construction plans.

These plans may be reviewed at the

Ohio Department Transportation
District 12 Office
5500 Transportation Boulevard
Garfield Heights, Ohio 44125

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.

Protection of Right-of-Way Landscaping

Prior to beginning work, the Contractor, the Project Engineer, and a representative of the Maintaining Agency will review and record all landscaping items within the right-of-way (both within and outside the construction limits). A record of this review will be kept in the Project Engineer's files. Prior to final acceptance, a final review of landscaping items will be made.

Constrict all activities, equipment storage, and staging to within the construction limits. Unless otherwise identified in the plans or proposal, the construction limits are identified as 30 feet from the edge of pavement.

Submit a written request to the Project Engineer to use any area outside these limits. The document submitted must clearly identify the area and explain the proposed use and restoration of the area. Use of these areas for disposal of waste material and construction debris, excavation of borrow material and placement of portable plants is prohibited. The request must be approved, in writing, before the Contractor has permission to use the area.

Any items damaged beyond the construction limits, as defined above, will be replaced in kind or as approved by the Project Engineer.

Right-of-Way

All work shall be performed within the existing Right-of-Way or easements.

Utilities

Listed below are all utilities located within the project construction limits together with their respective owners:

The Illuminating Co.
6896 Miller Road
Brecksville, Ohio 44141
Attn: John Zassick
Phone: 440-546-8706
&
Attn: Call for New Service Request
Phone: 800-589-3101

AT&T
13630 Lorain Ave. – 2nd Floor
Cleveland, Ohio 44111
Attn: James Janis
Phone: 216-476-6142

Enbridge
320 Springside Drive
Suite 320, Akron, Ohio 44333
Attn: 2nd Floor Relocation Design
Phone: 330-664-2409

Ohio Department of Transportation
5500 Transportation Blvd.
Garfield Heights, Ohio 44125
Phone: 216-581-2100

Northeast Ohio Regional Sewer District (NEORS)
3900 Euclid Ave
Cleveland, Ohio 44115
Attn: Mary Maciejowski
Phone: 216-881-6600, Ext. 6466

Cuyahoga County Sanitary Engineer
2079 E. 9th Street, 5th Floor
Cleveland, Ohio 44113
Attn: Hugh Blocksidge
Phone: 216-443-8205

ODOT Office of Technical Services
Traffic Monitoring Section
1980 W. Broad St.
Columbus, OH 43223
Attn: Ronda Keller
Phone: 614-965-4463

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.

Clearing and Grubbing

Although there are no trees or stumps specifically marked for removal within the project limits of the project, a Lump Sum quantity is included in the General Summary for Item 201, Clearing and Grubbing. All provisions as set forth in the Specifications under this item are included in the Lump Sum price bid for Item 201, Clearing and Grubbing.

Item 201 – Clearing and Grubbing.....Lump Sum

Contingency Quantities

The Contractor shall not order materials or perform work for items designated by plan note to be used “as directed by the Engineer” unless authorized by the Engineer. The actual work locations and quantities used for such items shall be incorporated into the final change order governing completion of this project.

Equipment and Material Storage

In order to provide for the safety of the traveling public the Contractor's attention is directed to 614.03. In addition, the following provisions shall apply:

- Any removed items shall not be stored on the right of way for more than thirty (30) days.
- The storage of equipment, materials, and vehicles within the highway right of way will be permitted. The number of areas and exact locations shall be approved by the Engineer.
- All disturbed areas shall be returned to their original condition at no expense to the state.

Cooperation Between Contractors

The Contractor shall cooperate and coordinate operations with the Contractors on other projects that may be in force during the life of the contract.

Plan Sheet Stationing

The roadway was not surveyed prior to the preparation of these plans. Stationing was provided to prepare plan sheets and calculate pavement and pavement marking quantities.

Staging Areas

There are no specific areas given in the plans for the Contractor to use as a staging area(s). If the Contractor wants to use an area(s) for staging, regardless if it falls within the project limits or not, the Contractor is to use the Right of Way E-Permitting System located at <https://odhncp.bemcorp.net/Accounts/Account/Account> in order to apply for a permit per Section 107.02 of the C&MS. For specific permitting questions, the Contractor can contact the District Permitting Office, (Melvin Safford) at 216-584-2137, (Andrew Tomko) at 216-584-2195 or at District12Permits@dot.ohio.gov.

If a permit is granted, all conditions of the permit shall be met in addition to the requirements of 104.04 of the C&MS, at no additional cost to the State. If the Project Engineer deems that all the conditions of the permit were not met, then 10% of the Contract bid amount for mobilization shall be withheld until all the conditions of the permit are satisfied.

Item 619 – Field Office, Type B, As Per Plan

A Type B Field Office is required for this project.

The following revisions to equipment supplied with the Type B Field Office, as specified in Table 619.02-1, Field Office, shall apply:

The office provided shall be a permanent structure (no trailers or modular offices).

The copier supplied from the preferred list shall be a Flow M776z or M776zs. The M776dn configuration shall not be accepted.

The broadband internet connection shall be hardwired and meet a minimum download speed of 500 Mb per second (no cellular or satellite connections will be accepted).

Contractor shall furnish and set up a wireless router that supports Wi-Fi standard 802.11Ax (Wi-Fi 6) and a minimum wireless data transfer rate of 4000 Mb/s.

All other field office items supplied shall meet the requirements of a Type B, Field Office.

Item 619 – Field Office, Type B, As Per Plan.....12 Months

DESIGN AGENCY



DESIGNER

KDH

REVIEWER

JEL 04/03/26

PROJECT ID

118680

SHEET

P.008

TOTAL

208

Maintenance of Traffic

General

It is the responsibility of the Contractor to provide through vehicular access in both directions at all times throughout the project area. The project shall be constructed in phases in order to minimize traffic disruption and inconvenience to the general public. The Contractor shall be responsible for providing all equipment, materials and manpower needed to adequately maintain traffic as provided for in the plans and specifications.

The Contractor is reminded that, in the conduct of this project, the sequence of operations shall be planned in a fashion which minimizes the number of lane reductions and/or lane width reductions required to maintain traffic through the project.

Permitted lane closures shall be as shown on the Permitted Lane Closure Schedule (PLCS). The time limits shown in this table shall be adhered to or road user costs will be assessed.

Lane Closure/Reduction Required

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.

Maintenance of Traffic Control Zones

The Contractor shall be responsible to maintain the signs, drums or cones specified in the Standard Construction Drawings. When the Contractor is notified of deficiencies, he shall correct the deficiencies as soon as possible, preferably within 12 hours and no later than 24 hours. If any noted deficiencies are not corrected within 24 hours the Engineer shall deduct one day pay for Item 614 – Maintaining Traffic, not as a penalty but as road user costs. The Contractor shall be subject to these road user costs for each and every day that these provisions are not met. All costs for maintaining the work zones as described above shall be included under Item 614 – Maintaining Traffic.

Suspension of Work

If the Contractor fails to comply with the provisions for traffic control as set forth in these plans or with provisions of the OMUTCD, the Engineer shall suspend work until the Contractor complies with the necessary requirements.

Payment

All work and traffic control devices shall be in accordance with CMS 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 plans.

Concrete Median Barrier Replacement

Removing, grading, and installing the replacement barrier in a continuous operation shall be limited to areas behind protection of portable concrete barrier and shall at all times be subject to the approval of the Engineer. The Engineer shall be satisfied that all installations will afford maximum protection for traffic.

Construction Traffic

All construction traffic shall use acceptable truck routes to access the construction area. Use of local residential streets is strictly prohibited unless allowed in writing by the local enforcement authorities.

Maintaining Traffic – General Provisions

1. Traffic shall be maintained in accordance with the “Permitted Lane Closure Schedule (PLCS).” The Contractor shall set up and operate his equipment in such a manner as to minimize encroachment upon the traveled width of pavement

2. The Contractor shall notify the Engineer, the responsible law enforcement agency and the Ohio Department of Transportation, District 12 Public Information Officer ((216) 584-2007) not less than 7 days prior to a scheduled disruption of traffic.

3. Nighttime work shall be permitted in accordance with these plans and notes. The Contractor shall provide flood lighting of the work area in accordance with CMS 401.15 in order to assure the safest conditions during nighttime work. A lighting plan for nighttime operations shall be presented to and approved by the Engineer.

4. The Contractor shall furnish, erect and maintain all warning and information signs necessary for maintaining traffic. The sign faces shall be reflectorized with Type G sheeting complying with the requirements of CMS 730.19. The Contractor shall determine what signs are needed and submit to the Engineer two weeks in advance of his detailed plans. See the OMUTCD and standard drawings for the minimum signage required.

5. Traffic control devices shall be set up prior to the start of construction and shall be properly maintained during the time special conditions exist. They shall remain in place only as long as they are needed and shall be immediately removed thereafter. Where operations are performed in stages, there shall be in place only those devices that apply to the condition present during the stage in progress. All signs with messages which do not apply during a certain period shall be covered or set aside out of the view of traffic.

6. Placement of final roadway pavement markings and raised pavement markers shall be accomplished in accordance with the "Permitted Lane Closure Schedule (PLCS)" The Contractor shall provide 2 shadow vehicles as per MT-99.20 following the pavement marking equipment. The shadow vehicles shall travel 500' apart with the remote vehicle traveling on the shoulder (left or right as applicable) where usable shoulder is available. The first shadow vehicle in a traffic lane shall be equipped with a truck mounted attenuator meeting NCHRP 350 requirements. Each shadow vehicle shall have a yellow flashing beacon plus 48" construction warning signs mounted on the back facing traffic with standard type messages advising motorists of the work ahead, advisory warning speed, and which lane is closed.

7. During non-working periods, open excavations shall be delineated with warning flashers and/or other approved devices as deemed appropriate by the Engineer.

8. Existing signs located within the road work areas which are necessary for interim or permanent traffic control shall be removed and re-erected in locations as approved by the Engineer.

9. No stoppage of traffic shall occur without law enforcement personnel at each location to direct traffic.

10. Whenever a total closure is implemented, the Contractor shall provide a portable changeable message sign from ODOT's pre-approved list. It shall be placed 1.5 miles to 2 miles in advance of the closure or as directed by the Engineer.

11. For any operation not specifically mentioned in these plans, the traffic shall be maintained in accordance with the OMUTCD.

Permitted Lane Closure Schedule (PLCS)

Lane closure(s) shall conform to the PLCS. Published **PLCS** information can be found on the **ODOT** website at: <https://www.transportation.ohio.gov/working/data-tools/resources/permitted-lane-closure>

The monthly published schedules required to be used, for each **PLCS** segment within the project area, are those that comprise the consecutive 12-month period beginning 15 months prior to the month and year of sale and ending 4 months prior to the month and year of sale. These same 12 months apply for the life of the project and shall be applied to each respective month of construction (month of lane closure(s) shall match month of **PLCS** used). Lane closure(s) in place for multiple months shall always comply with the current respective month.

(FOR EXAMPLE: If the sale date for the project was March of 2021, the monthly published schedules for each applicable **PLCS** segment would be December 2019 to November 2020. If this was a three-year project, year three would still be using the December 2019 to November 2020 monthly schedules. If the project desired to close two lanes in June 2021, reference would be made to the June 2020 schedule(s) for the respective **PLCS** segment(s). If the same two lanes were desired to be closed again in July 2021, reference would be made to the July 2020 schedule(s) for the respective **PLCS** segment(s).)

More restrictive changes to the allowable lane closure hours are at the discretion of the Engineer in order to comply with the Traffic Management in Work Zones Policy (21-008(P)) and Standard Procedure (123-001(SP)).

Less restrictive changes to the allowable lane closure hours are subject to the Traffic Management in Work Zones Policy (21-008(P)) and Standard Procedure (123-001(SP)) and shall not be implemented until, and unless, approved by the proper **ODOT** authority.

Allowable lane closure hours for facilities not covered by the PLCS, if any, shall be as specified elsewhere in the plans.

Floodlighting

Floodlighting of the work site for operations conducted during nighttime periods shall be accomplished so that the lights do not cause glare to the drivers on the roadway. To ensure the adequacy of the floodlight placement, the Contractor and the Engineer shall drive through the work site each night when the lighting is in place and operative prior to commencing any work. If glare is detected, the light placement and shielding shall be adjusted to the satisfaction of the Engineer before work proceeds.

Payment for all labor, equipment and materials shall be included in the lump sum contract price for **Item 614, Maintaining Traffic**.

DESIGN AGENCY



DESIGNER

KDH

REVIEWER

JEL 04/03/26

PROJECT ID

118680

SHEET

P.013

TOTAL

208

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)
Memorial Day	Thanksgiving
Fourth of July (observed)	Christmas (observed)
Labor Day	(Other Holiday or Special Event)

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 or special event	Time all lanes must be open to traffic
Sunday	12:00N Friday through 6:00AM Monday
Monday	12:00N Friday through 6:00AM Tuesday
Tuesday	12:00N Monday through 6:00AM Wednesday
Tuesday (Gen./Reg. Election)	5:00AM Tuesday through 12:00AM Wednesday
Wednesday	12:00N Tuesday through 6:00AM Thursday
Thursday	12:00N Wednesday through 6:00AM Friday
Thursday (Thanksgiving only)	6:00AM Wednesday through 6:00AM Monday
Friday	12:00N Thursday through 6:00AM Monday
Saturday	12:00N Friday through 6:00AM Monday

During the same periods, maintain pedestrian access if pedestrian access was present prior to construction.

Should the Contractor fail to meet to meet any of these requirements, the Contractor shall be assessed a disincentive per the Lane Value Contract (PN 127) and the below disincentives.

Description of Critical Lane/Ramp to be Maintained	Restricted Time Period	Time Unit	Disincentive \$ per Time Unit per Lane
IR-90			
SR-2 Curve to E. 185 th St., EB & WB	As per the Permitted Lane Closure Schedule	Each Minute	\$355

The Contractor shall be assessed a disincentive in the amount of the sum total of those sections impacted by the physical lane restriction, including the Transition Area, Activity Area, and Termination Area as defined by the OMUTCD. Holiday disincentives shall be applied per section per lane per time unit.

Maintaining Traffic and Sequence of Operations

All asphalt concrete operations shall be conducted in a manner that will assure minimum danger and inconvenience to highway users. The procedure for the removal or placement of any existing or proposed asphalt course shall be such that no greater than 1-1/2" discontinuity in the elevation of the traveled surface shall be exposed to traffic.

Traffic shall not be permitted to cross any partial-width removal or resurfacing joint during the actual removal or paving operation except as necessary. Any partial-width longitudinal joints with a discontinuity greater than 1-1/2" which must be exposed to traffic shall be ramped using Item 614 – Asphalt Concrete for Maintaining Traffic at a rate not steeper than 6:1.

Temporary transverse removal or paving joints which must be exposed to traffic shall be ramped using Item 614 – Asphalt Concrete for Maintaining Traffic at a rate not to exceed 1" in 10'.

For removal of existing overlays, a transition may be planed into the existing overlay and may be substituted for the asphalt ramps previously described.

Whenever traffic is subject to partial width removals or overlays prior to full width completion, the Contractor shall provide W8-11-48 "UNEVEN LANES" signs (dual sign installation). Placement shall be as directed by the Engineer and included in the lump sum payment for Item 614 – Maintaining Traffic.

Whenever any part of the traveled surface is closed, the motorists shall be warned and diverted by the Contractor through the use of a flashing arrow, in addition to those provisions set forth in the OMUTCD, the Traffic Engineering Manual and the applicable Standard Construction Drawings.

Major Work Items

The following major work items will require traffic maintenance which shall be incorporated into the Contractor's sequence of operations.

- A. Remove existing RPMs
- B. Remove existing NB & SB outside shoulder rumble strips and replace with asphalt
- C. Remove existing pavement markings & place work zone pavement markings
- D. Place portable barrier
- E. Remove existing median barrier
- F. Place proposed median barrier, lighting, and inlets
- G. Remove portable barrier
- H. Place proposed pavement markings and raised pavement markers
- I. Place rumble strips

Item 614 – Asphalt Concrete for Maintaining Traffic

This item shall be used to fix any potholes that form in the MOT zone during the life of the project. The following estimated quantity has been carried to the General Summary for use as directed by the Engineer:

Item 614 – Asphalt Concrete for Maintaining Traffic 25 CY

Rumble Strip Removal and Replacement

All existing rumble strips on the westbound outside shoulder that are in conflict with the proposed movement of traffic during the MOT operations shall be removed by pavement planing. The removed rumble strip areas shall be filled with asphalt concrete surface course. The rumble strip removal and replacement area shall be 2.5 feet wide and 1.5 inches deep, centered on the rumble strip. The pavement planing and placement of asphalt concrete surface course should be completed in the same operation. The estimated removal and replacement length is 48,291 Ft.

Immediately following completion of MOT operations and restoring the traffic to its original position, new rumble strips shall be installed at the location where the existing rumble strips were removed.

The following estimated quantities have been carried to the General Summary:

Item 254 – Pavement Planing, Asphalt Concrete (1.5" depth)	13,414 SY
Item 407 – Non-Tracking Tack Coat	1141 Gal
Item 442 – Asphalt Concrete Surface Course, 12.5 MM, Type A (449), As Per Plan, PG70-22M, 1-1/2"	559 CY
Item 618 – Rumble Strips, Shoulder, (Asphalt Concrete)	9.15 Mile

Item 630 – Signing Misc.: Additional Signs, Ground Mounted, As Directed by the Engineer

When additional signing is needed to maintain traffic, the Contractor shall furnish the sign or signs as directed by the Engineer. These signs shall be ground mounted and meet all the specifications of the plan, proposal and current year CMS.

Payment for this item shall include, but not be limited to, the cost to furnish and erect the sign, including driving posts or other approved methods of sign support, maintaining the sign and removal of the sign.

This item of work shall be used to provide signs that are beyond the requirements of the signage detailed in the Standard Construction Drawings and the OMUTCD.

The following estimated quantity has been carried to the General Summary to be used as directed by the Engineer:

Item 630 – Signing, Misc.: Additional Signs, Ground Mounted, As Directed by the Engineer 300 Sq Ft

Maintenance of Existing Signs

Per CMS 614.07, the Contractor shall maintain all existing signs for the duration of the project. For overhead signs being replaced by the project, leave the existing signage in place until the new signage is installed. If the existing signs cannot remain in place until the proposed signs are installed, install temporary ground mounted signs in the outside shoulder upon removal of the existing signs to ensure that directional signs are in place at all times.

Covering of Ground-Mounted Signs--General

When required by other items or incidentally to Item 614 – Maintaining Traffic, cover existing ground-mounted signs with plywood or OSB blanks (1/2" minimum thickness) covering 80% of the sign area and all of the sign legend. The use of low quality materials such as duct tape and black plastic is not permitted.

Item 614 – Work Zone Pavement Markings

The following estimated quantities have been carried to the General Summary to be used as directed by the Engineer for work zone pavement markings per the requirements of CMS 614.04 and 614.11. Remove all conflicting pavement markings prior to placing work zone markings. Place work zone markings at the locations shown on the Maintenance of Traffic Plan Sheets.

Item 614 – Work Zone Lane Line, Class I, 6”, 642 Paint	<u>24.21 Mile</u>
Item 614 – Work Zone Edge Line, Class I, 6”, 642 Paint	<u>16.69 Mile</u>
Item 614 – Work Zone Channelizing Line, Class I, 12”, 642 Paint	<u>7,964 Ft</u>
Item 614 – Work Zone Dotted Line, Class I, 6”, 642 Paint	<u>7,926 Ft</u>

Item 614 – Work Zone Raised Pavement Marker

The following estimated quantity has been carried to the General Summary to be used as directed by the Engineer for work zone raised pavement markers per the requirements of SCD MT-99.30.

Item 614 – Work Zone Raised Pavement Marker	<u>1,797 Each</u>
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Construction Access Points

To be able to access the work area, the Contractor will be permitted to set up two construction access points in each direction. Four additional work zone impact attenuators have been provided in the General Summary for this purpose. The quantity of portable barrier has been calculated for the entire length of the project, in both directions. The Contractor shall receive no additional payment for portable barrier or impact attenuators when moving the construction access points to complete the construction of the proposed median barrier. The Contractor shall submit proposed locations for the construction access points to the Engineer for approval prior to setting up the work zone.

Item 614 – Work Zone Impact Attenuator, 24” Wide Hazards, (Unidirectional)	<u>4 Each</u>
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Item 614, Work Zone Impact Attenuator for 24” Wide Hazards (Unidirectional)

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.

Item 614,	Work Zone Impact Attenuator for 24” Wide Hazards (Unidirectional)	<u>2 Each</u>
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Item 622 – Portable Barrier, Unanchored

This item of work shall be used when placing proposed concrete barrier in the median at the locations specified in the plans. The following estimated quantity has been carried to the General Summary:

Item 622,	Portable Barrier, Unanchored	<u>39,170 Feet</u>
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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 or permanent barrier (including bridge parapets) 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 included in the plans and carried to the General Summary:

Item 614,	Barrier Reflector, Type 1 (One-Way)	<u>785 Each</u>
Item 614,	Object Marker, One-Way	<u>785 Each</u>

Payment shall be full compensation for all material, labor, incidentals and equipment necessary for furnishing, installing, maintaining and removing each of the above items

Along runs of increased barrier delineation where this item is provided, the quantity shall be measured as the entire length of the run of increased barrier delineation, including the spaces between the individual delineation panels or stacks of barrier reflectors.

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.

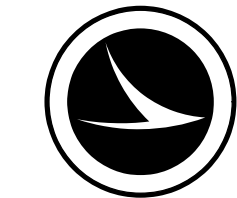
Object Markers shall be installed on all temporary and permanent guardrail located within 5 feet of the edge of the adjacent travel lane. Guardrail-mounting of Object Markers shall be made by installing the object markers on the extension blocks rather than directly onto the guardrail itself. Object markers shall conform to C&MS 614.03 and the spacing shall be approximately 50 feet with a 25 foot offset from the Barrier Reflectors.

The following estimated quantities have been included in the plans and carried to the General Summary:

Payment shall be full compensation for all material, labor, incidentals and equipment necessary for furnishing, installing, maintaining and removing the above item(s).

Item 614,	Barrier Reflector, Type 3, (One-Way)	<u>240 Each</u>
Item 614,	Object Marker, One-Way	<u>240 Each</u>

DESIGN AGENCY



DESIGNER

KDH

REVIEWER

JEL 04/03/26

PROJECT ID

118680

SHEET

P.015

TOTAL

208

CUY-90-20.45 BARRIER

MODEL: Sheet_SurfF1 PAPER SIZE: 34x22 (in.) DATE: 7/8/2026 TIME: 10:22:07 AM PLT DRV: CHDOT_PDF.plt G: PENTBL: CHDOT_Pen.tbl USER: Keith.Hamilton@dot.ohio.gov WORKSPACE: CHDOTCE\02 WORKSET: 118680 PRODUCT: OpenRoads Designer 24.00.00.205
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SHEET NUMBER													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
8-12	14-19	82	83	84	86	88	89	92	135	137	184	197	01/STR						
																		ROADWAY	
LS														201	11000	LS		CLEARING AND GRUBBING	
				244										202	23000	244	SY	PAVEMENT REMOVED	
		18,540												202	30701	18,540	FT	CONCRETE BARRIER REMOVED, AS PER PLAN	10
			188								LS			202	38000	188	FT	GUARDRAIL REMOVED	
														202	98000	LS		REMOVAL MISC.: PORTIONS OF CONCRETE MEDIAN BARRIER OVERHEAD SIGN SUPPORT REMOVED	184
		455												203	10000	455	CY	EXCAVATION	
			1											209	15051	1	MILE	RESHAPING UNDER GUARDRAIL, AS PER PLAN	10
			63											606	15050	63	FT	GUARDRAIL, TYPE MGS	
			225											606	15150	225	FT	GUARDRAIL, TYPE MGS HALF POST SPACING	
			50											606	15250	50	FT	GUARDRAIL, TYPE MGS QUARTER POST SPACING	
			1											606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E	
			5											606	26550	5	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
			1											606	35102	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
											20			607	35000	20	FT	FENCE REMOVED AND REBUILT	
		11,804												622	10101	11,804	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE B1, AS PER PLAN A	10
		1,065												622	10101	1,065	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE B1, AS PER PLAN B	10
		7												622	10200	7	EACH	BARRIER TRANSITION	
		2												622	10201	2	EACH	BARRIER TRANSITION, AS PER PLAN	10
		186												622	25006	186	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1	
		4												622	25007	4	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN A	10
		24												622	25007	24	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN B	10
	39,770													622	41100	39,770	FT	PORTABLE BARRIER, UNANCHORED	
		20												622	90000	20	FT	BARRIER, MISC.: CONCRETE BARRIER, TYPE B50	10
																		EROSION CONTROL	
														832	30000	1,000	EACH	EROSION CONTROL	
																		DRAINAGE	
10		88												611	99101	88	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1, AS PER PLAN	11
														611	99155	10	EACH	INLET RECONSTRUCTED TO GRADE, AS PER PLAN	11
									37					611	99500	37	EACH	INLET, MISC.: BARRIER INLET SCREEN	135
		3												611	99500	3	EACH	INLET, MISC.: INLET, NO.3 B50	11
3,000														SPECIAL	61199820	3,000	LB	MISCELLANEOUS METAL	11
																		PAVEMENT	
	13,414			12,210										254	01000	25,624	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"	
				51										302	56000	51	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
		1,050												304	20000	1,050	CY	AGGREGATE BASE, 5"	
	1,141			1,065										407	20000	2,206	GAL	NON-TRACKING TACK COAT	
				32										441	70300	32	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
			16											441	70801	16	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	12
	559													442	22101	559	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG70-22M	12
				509										442	22101	509	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG76-22M	12
	9.15													618	40600	9.15	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
7.03														618	40601	7.03	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN	12
									</										

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

KDH

REVIEWER

IEI 04/03

JUL 01/03

PROJECT ID

118680

SHEET	TOTAL
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P 068 | 2

SHEET NUMBER													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
8-12	14-19	82	83	84	86	88	89	92	135	137	184	197	01/STR		EXT	TOTAL			
								98						625	00450	98	EACH	LIGHTING	
								98						625	00460	98	EACH	CONNECTION, UNFUSED PULL APART	
								188						625	00480	188	EACH	CONNECTION, UNFUSED PERMANENT	
								51						625	10495	51	EACH	LIGHT POLE, LOW MAST, AS PER PLAN, ALM50	
								51						625	14307	51	EACH	MEDIAN LIGHT POLE FOUNDATION, 10' DEEP, AS PER PLAN	197
								53,046						625	23200	53,046	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
								5,700						625	23400	5,700	FT	NO. 10 AWG POLE AND BRACKET CABLE	
								8,893						625	25910	8,893	FT	CONDUIT CLEANED AND CABLES REMOVED	
								50						625	26273	50	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN 3000K, 47000 LUMEN	
								16						625	29940	16	EACH	BARRIER JUNCTION BOX	
						11		53						625	32000	64	EACH	GROUND ROD	
								14						625	39520	14	EACH	PULL BOX CLEANED	
								2				LS		SPECIAL	62540000	LS		MAINTAIN EXISTING LIGHTING	197
								49						625	75350	2	EACH	LIGHT TOWER REMOVED	
								49						625	75400	49	EACH	LIGHT POLE REMOVED	
								49						625	75506	49	EACH	LUMINAIRE REMOVED	
																		TRAFFIC SURVEILLANCE	
							27							809	00530	27	EACH	ITS JUNCTION BOX, 17x24x6 INCHES	
							9							809	01920	9	EACH	ITS PULL BOX WITH PAD AND HINGED LID ASSEMBLY, 32" WIDE, TYPE 1	
							5							809	02002	5	EACH	32" ITS PULL BOX WITH PAD AND HINGED LID ASSEMBLY, TYPE 2	
							2,144							809	24000	2,144	FT	CONDUIT, MULTICELL, JACKED OR DRILLED, 2"	
							5							809	65990	5	EACH	ITS DEVICE, MISC.:PULL BOX REMOVED	
																		TRAFFIC CONTROL	
			1											620	00500	1	EACH	DELINEATOR, POST GROUND MOUNTED	
										384				626	00102	384	EACH	BARRIER REFLECTOR, TYPE 1, ONE-WAY	
						6								630	72411	6	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 1, AS PER PLAN	137
						4								630	72421	4	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2, AS PER PLAN A	137
						1								630	72421	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2, AS PER PLAN B	137
						148								630	75000	148	EACH	SIGN ATTACHMENT ASSEMBLY	
						3				3				630	79500	6	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
										48				630	79610	48	EACH	SIGN SUPPORT ASSEMBLY, BARRIER MOUNTED	
						35								630	80100	35	SF	SIGN, FLAT SHEET	
						4,023								630	80224	4,023	SF	SIGN, OVERHEAD EXTRUSHEET	
										36				630	81000	36	EACH	MAINLINE REFERENCE MARKER	
						3								630	81100	3	SF	SIGN ERCTED, FLAT SHEET	
						4,183								630	81200	4,183	SF	SIGN ERCTED, EXTRUSHEET	
						10								630	84010	10	EACH	CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50	
						1								630	84011	1	EACH	CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50, AS PER PLAN	
						10								630	84510	10	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
										15				630	85100	15	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
						46								630	87400	46	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	
						3								630	87500	3	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
						11								630	89804	11	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-15.115	
						16.83								646	10010	16.83	MILE	EDGE LINE, 6"	
						24.84								646	10110	24.84	MILE	LANE LINE, 6"	
						3,880								646	10310	3,880	FT	CHANNELIZING LINE, 12"	137
						150								646	10620	150	FT	CHEVRON MARKING	
						3,681								646	20504	3,681	FT	DOTTED LINE, 6"	
						560								646	20510	560	FT	DOTTED LINE, 12"	
											LS			202	11201	LS		RETAINING WALLS (XXX)	184
																		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	
														503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	184
											LS			503	21300	LS		UNCLASSIFIED EXCAVATION	184
											161			509	10000	161	LB	EPOXY COATED STEEL REINFORCEMENT	
											2			511	53010	2	CY	CLASS QC1 CONCRETE, MISC.: RETAINING WALL PILASTER	184

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

KDH

REVIEWER

XXX 03/20/26

PROJECT ID

118680

SHEET

P.069

TOTAL

208

GENERAL SUMMARY

SHEET NO.	REFERENCE NO.	PLAN SPLIT NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	625	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
								GROUND ROD	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 1, AS PER PLAN	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2, AS PER PLAN A	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2, AS PER PLAN B	SIGN ATTACHMENT ASSEMBLY	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	SIGN, FLAT SHEET	SIGN, OVERHEAD EXTRUSHEET	SIGN ERECTED, FLAT SHEET	SIGN ERECTED, EXTRUSHEET	CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50	CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50, AS PER PLAN	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-15.115
P.143	S-1	1	IR-90 EASTBOUND	210+25	CL		168 X 96	1		1		3			112		112	1		1	1		1
		1					216 X 168					3			252		252				1		
		1				E1-5P	96 X 30					3			20		20				1		
		1					204 X 96					3			136		136				1		
		1				E1-5P	96 X 30					3			20		20				1		
P.145	S-2	1	IR-90 EASTBOUND	221+20	CL		168 X 96	1	1			5			112		112	1		1	1		1
		1					216 X 168					6			252		252				1		
		1				E1-5P	96 X 30					3			20		20				1		
		1				W12-2	48 X 48						1	16								1	
		1				W16-2P	30 X 48						1	10								1	
P.147	S-3	1	IR-90 WESTBOUND	233+00	CL		204 X 96	1		1		4			136		136	1		1	1		1
		1				E1-5P	96 X 30					2			20		20				1		
		1					204 X 96					4			136		136				1		
		1				E1-5P	96 X 30					2			20		180				1		
P.150	S-4	1	IR-90 WESTBOUND	248+50	CL		168 X 108	1			1	3			126		126		1		1		1
		1				E1-5P	96 X 30					2			20		20				1		
		1					252 X 144					5			252		252				1		
		1				E1-5P	96 X 30					2			20		20				1		
P.153	S-5	1	IR-90 WESTBOUND	309+78	CL		156 X 108	1	1			3			117		117	1		1	1		1
		1				E1-5P	96 X 30					2			20		20				1		
		1					216 X 168					4			252		252				1		
		1				E1-5P	96 X 30					2			20		20				1		
P.156	S-6	1	IR-90 WESTBOUND	325+25	CL		156 X 108	1	1			3			117		117	1		1	1		1
		1				E1-5P	96 X 30					2			20		20				1		
		1					216 X 168					4			252		252				1		
		1				E1-5P	96 X 30					2			20		20				1		
P.164	S-7	1	IR-90 EASTBOUND	365+30	CL		216 X 108	1		1		4			162		162	1		1	1		1
		1				E1-5P	96 X 30					2			20		20				1		
		1					180 X 72					3			90		90				1		
		1				E1-5P	96 X 30					2			20		20				1		
P.171	S-8	1	IR-90 EASTBOUND	400+95	CL		168 X 96	1	1			5			112		112	1		1	1		1
		1				E1-5P	132 X 30					4			27.5		27.5				1		
		1					216 X 108					6			162		162				1		
		1				E1-5P	96 X 30					3			20		20				1		
P.174	S-9	1	IR-90 EASTBOUND	415+75	CL		168 X 96	1	1			5			112		112	1		1	1		1
		1				E1-5P	132 X 30					4			27.5		27.5				1		
		1					216 X 108					6			162		162				1		
		1				E1-5P	96 X 30					3			20		20				1		
		1				M8-H2	36 X 36						1	9		1						1	
P.176	S-10	1	IR-90 EASTBOUND	427+35	CL		168 X 72	1		1		3			84		84	1		1	1		1
		1				E1-5P	120 X 30					2			25		25				1		
		1					168 X 72					3			84		84				1		
		1				E1-5P	120 X 30					2			25		25				1		
		1					192 X 120					4			160		160				1		
		1				E1-5P	96 X 30					2			20		20				1		
TOTALS CARRIED TO P.088								10	5	4	1	138	3	35	3805	3	3965	9	1	9	42	3	10
PLAN SPLIT #1 TOTAL																							
PLAN SPLIT #2 TOTAL																							

SIGNING SUBSUMMARY	
DESIGN AGENCY	
	
DESIGNER	KDH
REVIEWER	JEL 04/03/26
PROJECT ID	118680
SHEET	P.087
TOTAL	208

SHEET NO.	REFERENCE NO.	PLAN SPLIT NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	625	630	630	630	630	630	630	630	630	630	630	630	630	630		
								GROUND ROD	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 1, AS PER PLAN	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2, AS PER PLAN A	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2, AS PER PLAN B	SIGN ATTACHMENT ASSEMBLY	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	SIGN, FLAT SHEET	SIGN, OVERHEAD EXTRUSHEET	SIGN ERECTED, FLAT SHEET	SIGN ERECTED, EXTRUSHEET	CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50	CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50, AS PER PLAN	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC- 15.115
P.178	S-11	1	IR-90 EASTBOUND	437+90	CL		168 X 72	1	1			3			84		84	1		1	1		
		1				E1-5P	120 X 30					2			25		25				1		
		1					168 X 72					3			84		84				1		
		1				E1-5P	120 X 30					2			25		25				1		
TOTALS CARRIED FROM P.087								10	5	4	1	138	3	35	3805	3	3965	9	1	9	42	3	10
TOTALS THIS SHEET								1	1			10			218		218	1		1	4		1
TOTALS CARRIED TO GENERAL SUMMARY								11	6	4	1	148	3	35	4023	3	4183	10	1	10	46	3	11
PLAN SPLIT #1 TOTAL								11	6	4	1	148	3	35	4023	3	4183	10	1	10	46	3	11
PLAN SPLIT #2 TOTAL																							

SIGNING SUBSUMMARY

DESIGN AGENCY



DESIGNER

KDH

REVIEWER

JEL 04/03/26

PROJECT ID

118680

SHEET

P.088

TOTAL

208

REF. NO. (L-)	SHEET NO.	PLAN SPLIT NO.	STATION TO STATION	SIDE	625	625	625	625	625	625	625	625	625	625	625	625	625	625		
					CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PULL APART	LIGHT POLE, LOW MAST, AS PER PLAN, ALM50	MEDIAN LIGHT POLE FOUNDATION, 10' DEEP, AS PER PLAN	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN 3000K, 47000 LUMEN	LIGHT TOWER REMOVED	BARRIER JUNCTION BOX	GROUND ROD	LIGHT POLE REMOVED	LUMINAIRE REMOVED	PULL BOX CLEANED	CONDUIT CLEANED AND CABLES REMOVED		
					EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	FT	EACH		
			CIRCUIT EB																	
24	P.200	1	CONTROL CENTER 160+00	RT					172								1	33	4	
25	P.200	1	160+00 164+10	RT					840									410		
26	P.200	1	164+10	RT	1	1			194	210								87		
27, 28	P.200	1	164+10 168+90	CL	1	1			980	210			1					480	2	
29	P.200	1	168+90 170+49.90	CL					330			1						160		
			STATION EQUATION: 170+49.90 BK. = 200+83.36 BK																	
29	P.200	1	200+83.36 202+97	CL					512									251		
29A	P.200	1	202+97 203+34	CL					94										2	
30,31,32	P.200	1	203+34 206+34	CL	1	1	1	1	620		1	1							2	
33,34,35	P.200	1	206+34 209+22	CL	1	1	1	1	596		1		1						2	
36-40	P.200-P.201	1	209+22 211+23	CL	2	2	2	2	422		1	1	1						2	
41	P.201	1	211+23 215+00	CL	1	1			774				1							
42	P.201	1	215+00	RT	1	1			224	110		1						102	2	
43, 44	P.201	1	215+00 218+35	CL								1							2	
45	P.201	1	218+35	LT	1	1			354								1	162	4	
			CIRCUIT FA																	
46	P.201	1	4+25 RAMP B-2 11+10 RAMP B-2	RT	1	1			1390								1	685		
47	P.201	1	11+10 RAMP B-2 220+95	RT					120								1	55	2	
48	P.201	1	220+95 221+00	RT					160			1					1	75	2	
49,50,51	P.201	1	221+00 224+30	CL					680			1							2	
52,53	P.201	1	224+30	LT	1	1			184			1						82	2	
54	P.201	1	224+30 228+75	CL					910										2	
55	P.201	1	228+75	LT	1	1			320								1	140	4	
57-60	P.201	1	228+75 234+00	CL					1090			2							4	
61	P.201	1	234+00	LT	1	1			224									102		
62,63	P.201-P.202	1	234+00 CONTROL CENTER	RT					1076									538	4	
64	P.202	1	CONTROL CENTER 239+25	RT	1	1			594								1	277	2	
65	P.202	1	239+25	RT	1	1			180			1						80	2	
66	P.202	1	239+25 240+20	CL					210			1							2	
67	P.202	1	240+20	LT	1	1			804									392		
68	P.202	1	240+20 244+50	CL					880										2	
69	P.202	1	244+50	LT	1	1			214											
70-73	P.202	1	244+50 248+00	CL	1	1	1	1	728	110	1		1						2	
74,75,76	P.202	1	248+00 250+94	CL	1	1	1	1	600	110	1		1	1	1	1			2	
77	P.202	1	250+94 252+98.80 BK.	CL					432					1		1			2	
78	P.202	1	252+98.80 BK. CONTROL CENTER	LT					210								1	95	2	
TOTALS CARRIED TO SHEET 92						19	19	6	6	17118	750	5	2	9	8	2	2	8	4206	60
PLAN SPLIT #1 TOTAL						19	19	6	6	17,118	750	5	2	9	8	2	2	8	4,206	60

LIGHTING SUBSUMMARY

DESIGN AGENCY



DESIGNER

KDH

REVIEWER

JEL 04/03/26

PROJECT ID

118680

SHEET

P.090

TOTAL

208

REF. NO. (L-)	SHEET NO.	PLAN SPLIT NO.	STATION TO STATION	SIDE	625	625	625	625	625	625	625	625	625	625	625	625	625	625
					CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PULL APART	LIGHT POLE, LOW MAST, AS PER PLAN, ALMS0	MEDIAN LIGHT POLE FOUNDATION, 10' DEEP, AS PER PLAN	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN 3000K, 47000 LUMEN	LIGHT TOWER REMOVED	BARRIER JUNCTION BOX	GROUND ROD	LIGHT POLE REMOVED	LUMINAIRE REMOVED	PULL BOX CLEANED	CONDUIT CLEANED AND CABLES REMOVED
					EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT
			CIRCUIT M															
78	P.202	1	CONTROL CENTER	LT					210									4
79	P.202	1	301+99.84 AH.	CL	1	1	1	1	206	110	1			1				2
80,81,82	P.202	1	302+93	CL	1	1	1	1	618	110	1			1	1	1		2
83,84	P.202-P.203	1	305+92	CL	1	1	1	1	590	110	1			1	1	1		2
86,87,88	P.203	1	308+77	CL	1	1	1	1	598	110	1			1	1	1		2
89,90,91	P.203	1	311+66	CL	1	1	1	1	618	110	1			1	1	1		2
92,93,94	P.203	1	314+65	CL	1	1	1	1	618	110	1			1	1	1		2
95,96,97	P.203	1	317+64	CL	1	1	1	1	618	110	1			1	1	1		2
98,99,100	P.203	1	320+63	CL	1	1	1	1	618	110	1			1	1	1		2
101-103	P.203	1	323+62	CL	1	1	1	1	534	110	1			1	1	1		2
104-106	P.203	1	326+19	CL	1	1	1	1	618	110	1			1	1	1		2
107-109	P.203	1	329+18	CL	1	1	1	1	618	110	1			1	1	1		2
110-115	P.203-P.204	1	332+17	CL	2	2	2	2	618	220	2			2	1	1		4
	P.204	1	336+50												1	1		
			CIRCUIT D															
116-118	P.204	1	338+47	CL	1	1	1	1	584	110	1			1	1	1		2
119-121	P.204	1	341+29	CL	1	1	1	1	616	110	1			1	1	1		2
122-124	P.204	1	344+27	CL	1	1	1	1	620	110	1			1	1	1		2
125-127	P.204	1	347+27	CL	1	1	1	1	618	110	1			1	1	1		2
128-130	P.204	1	350+26	CL	1	1	1	1	622	110	1			1	1	1		2
131-133	P.204	1	353+27	CL	1	1	1	1	618	110	1			1	1	1		2
134-136	P.204-P.205	1	356+26	CL	1	1	1	1	622	110	1			1	1	1		2
137-139	P.205	1	359+27	CL	1	1	1	1	620	110	1			1	1	1		2
140-142	P.205	1	362+27	CL	1	1	1	1	524	110	1			1	1	1		2
143-146	P.205	1	364+79	CL	1	1	1	1	142	110	1			1	1	1		2
147	P.205	1	365+40	LT	8	8			2520				1				1	4
148,149	P.205	1	365+40	CL					76									2
150	P.205	1	365+68	RT	9	9			2426				1				1	4
151	P.205	1	365+68	CL					538									2
152-154	P.205	1	368+27	CL	1	1	1	1	618	110	1			1	1	1		2
155-157	P.205	1	371+26	CL	1	1	1	1	514	110	1			1	1	1		2
158-160	P.205	1	373+73	CL	1	1	1	1	434	110	1			1	1	1		2
161-163	P.205	1	375+80	CL	1	1	1	1	520	110	1			1				2
164-166	P.205	1	378+30	CL	1	1	1	1	618	110	1			1	2	2		2
167-169	P.205-P.206	1	381+29	CL	1	1	1	1	608	110	1			1				2
170-172	P.206	1	384+23	CL	1	1	1	1	642	110	1			1	1	1		2
173-175	P.206	1	387+34	CL					72				1					2
176-176A	P.206	1	387+60	LT	8	8			2374				1				1	4
177-178	P.206	1	387+60	CL					220				.		1	1		2
179	P.206	1	388+60	RT	9	9			2466				1				1	4
180	P.206	1	388+60	CL					342						1	1		2
181-183	P.206	1	390+21	CL	1	1	1	1	618	110	1			1	1	1		2
184-186	P.206	1	393+20	CL	1	1	1	1	576	110	1			1	1	1		2
187-189	P.206	1	395+98	CL	1	1	1	1	618	110	1			1	1	1		2
190-193	P.206	1	398+97	CL	1	1	1	1	196	110	1		1	1	1	1		2
194	P.206	1	399+85	RT					204								1	4
			CONTROL CENTER															
TOTALS CARRIED TO SHEET 92					68	68	34	34	29868	3740	34		6	34	34	34	5	4605
PLAN SPLIT #1 TOTAL					68	68	34	34	29,868	3,740	34		6	34	34	34	5	4,605
PLAN SPLIT #2 TOTAL																		

LIGHTING SUBSUMMARY

DESIGN AGENCY



DESIGNER
KDH

REVIEWER
DAB 09/04/25

PROJECT ID
118680

SHEET
P.091

TOTAL
208

CUY-90-20.45 BARRIER

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 7/8/2026 TIME: 12:28:28 PM PLTDRV: OHDOT_PDF.pltG PENTBL: OHDOT Pen.tbl USER: Keith.Hamilton@dot.ohio.gov WORKSPACE: OHDOTCEV02 WORKSET: 116680 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\ohdotd-pw.bentley.com:ohdotd-pw-02\Documents\01 Active Projects\District 12\Cuyahoga\116680\400-Engineering\Lighting\Sheets\116680_LIS003.dgn

[illegible]

LIGHTING SUBSUMMARY

DESIGN AGENCY



DESIGNER

KDH

REVIEWER

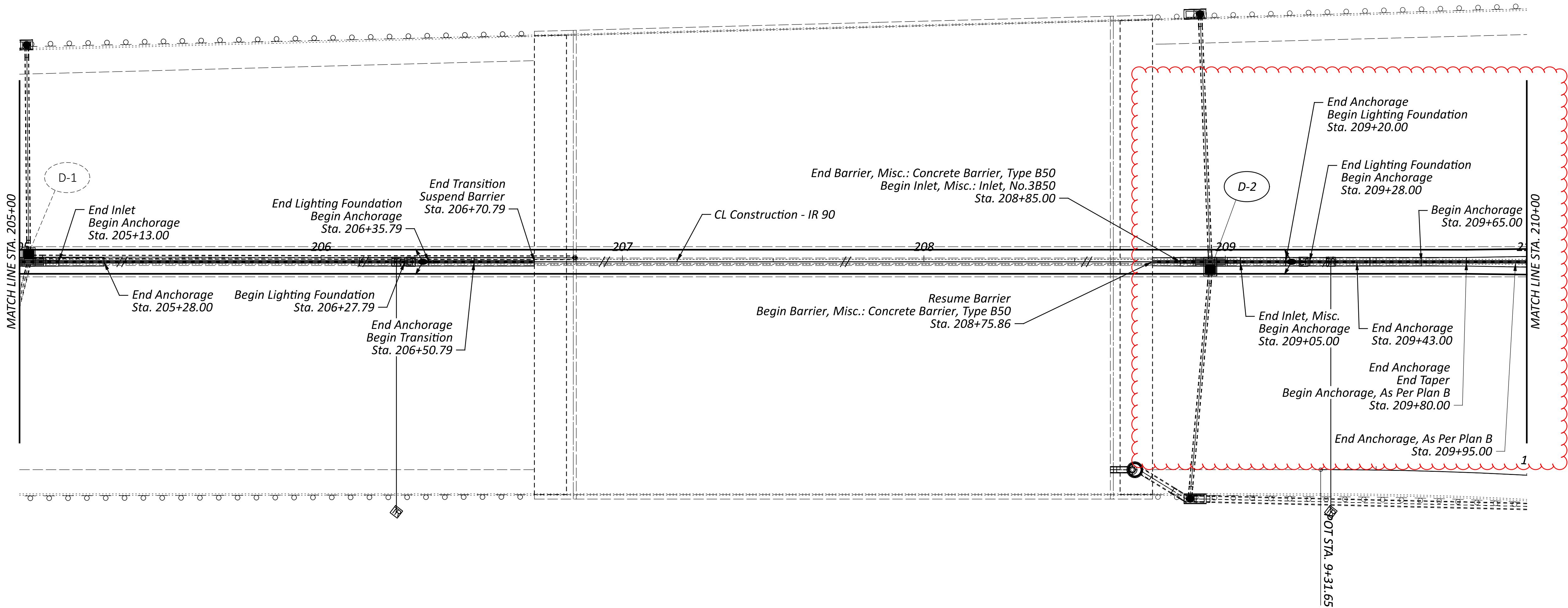
DAB 00/04

PROJECT ID: 110000

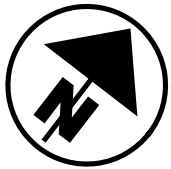
118080

SHEET TOTAL

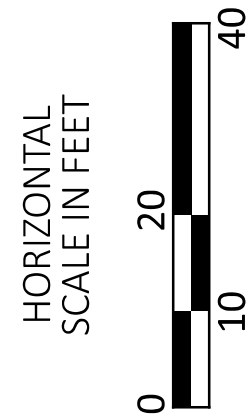
TOTA



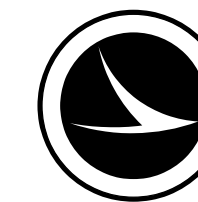
FOR BARRIER & DRAINAGE SUBSUMMARY, SEE SHEETS P.071-P.082
FOR PAVEMENT SUBSUMMARY, SEE SHEET P.084
FOR INLET SCREEN QUANTITIES, SEE SHEETS P.135



GENERAL PLAN
I.R. 90, STA. 205+00 TO STA. 210+00



DESIGN AGENCY



DESIGNER

KDH

REVIEWER

JEL 04/03/26

PROJECT ID

118680

SHEET

P.094

TOTAL

208