

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

FRA-VAR DMS & QWS-FY2026

CITY OF COLUMBUS
MADISON TOWNSHIP
FRANKLIN COUNTY

FEDERAL PROJECT NUMBER

NON-FEDERAL

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

INSTALLATION OF NEW QUEUE WARNING SYSTEM (QWS) PANELS, QUEUE DETECTION CAMERAS, AND ASSOCIATED INFRASTRUCTURE AT VARIOUS LOCATIONS IN FRANKLIN COUNTY.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 1.4 ACRES (SEE SHEET P.3 FOR SITE BREAKDOWN)
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

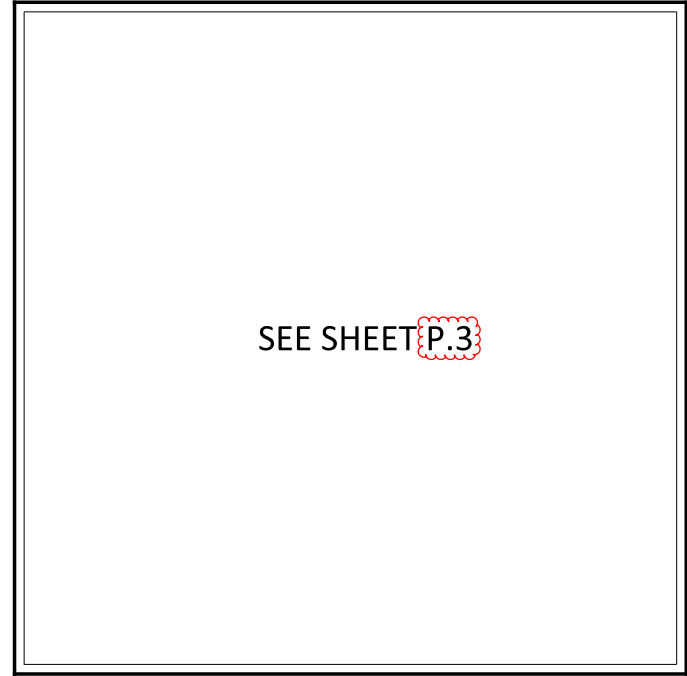
2023 SPECIFICATIONS

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.

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.

Anthony C. Turawski
Anthony C. Turawski, P.E.
District 06 Deputy Director

Pamela Boratyn
Pamela Boratyn
Director, Department of Transportation



LOCATION MAP



PORTION TO BE IMPROVED	
INTERSTATE HIGHWAY	
FEDERAL ROUTES	
STATE ROUTES	
COUNTY & TOWNSHIP ROADS	
OTHER ROADS	

DESIGN DESIGNATION

CURRENT ADT (2025)	N/A
DESIGN YEAR ADT (2025)	N/A
DESIGN HOURLY VOLUME (2025)	N/A
DIRECTIONAL DISTRIBUTION	N/A
TRUCKS (24 HOUR B&C)	N/A
DESIGN SPEED	N/A
LEGAL SPEED	N/A
DESIGN FUNCTIONAL CLASSIFICATION:	
01 INTERSTATE (URBAN)	
02 FREEWAY & EXPRESSWAY (URBAN)	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

OHIO811.org
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:

CMT
CRAWFORD, MURPHY & TILLY, INC.

INDEX OF SHEETS:

TITLE SHEET	P.1
CITY OF COLUMBUS SIGNATURE SHEET	P.2
SCHEMATIC PLAN	P.3
GENERAL NOTES	P.4 - P.6
MAINTENANCE OF TRAFFIC	P.7 - P.8
GENERAL SUMMARY	P.9 - P.10
SUBSUMMARIES	P.11 - P.12
TRAFFIC CONTROL AND ITS PLANS	P.13 - P.36

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
MGS-2.1	1/16/26	ITS-12.10	1/16/26	MT-95.31	7/18/25	800-2023	1/16/26	513	
MGS-2.3	7/18/25	ITS-12.11	1/16/26	MT-95.32	7/18/25	809	1/17/25	APPLICATION	2/20/26
MGS-3.2	7/18/25	ITS-12.50	1/17/25	MT-95.40	7/18/25	825	7/19/24		
MGS-4.2	7/18/25	ITS-13.10	7/19/24	MT-95.41	7/18/25	832	7/18/25	513	
MGS-4.3	7/18/25	ITS-14.10	1/17/25	MT-95.45	7/21/23	909	7/18/25	APPROVAL	3/24/26
MGS-5.3	7/15/16	ITS-14.11	1/16/26	MT-95.50	7/21/17				
MGS-6.3	7/18/25	ITS-14.50	7/18/25						
		ITS-15.10	1/16/26	TC-41.10	1/16/26				
RM-4.2	1/16/26	ITS-15.11	1/16/26	TC-41.20	10/18/13				
		ITS-18.10	7/16/21	TC-42.10	10/18/13				
HL-40.20	7/18/25	ITS-50.10	1/16/26	TC-42.20	10/18/13				
HL-50.21	1/16/26	ITS-50.11	7/18/25	TC-51.11	7/18/25				
		ITS-50.12	7/19/24	TC-51.12	7/18/25				
ITS-10.10	1/17/25	ITS-76.10	1/16/26						
ITS-10.11	7/18/25								
ITS-11.10	1/17/25	MT-95.30	7/18/25						

<p>ENGINEER'S SEAL</p> <p>ROADWAY</p>	<p>ENGINEER'S SEAL</p> <p>TRAFFIC CONTROL</p>
---------------------------------------	---

TITLE SHEET

DESIGN AGENCY

CRAWFORD, MURPHY & TILLY, INC.
1200 FOURTH STREET
SUITE 100
COLUMBUS, OH 43205
www.cmtinc.com

DESIGNER

GSH

REVIEWER

JWL 03/20/26

PROJECT ID

122200

SHEET TOTAL

P.1 36

FRA VAR DMS & QWS

MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 6/18/2026 TIME: 2:40:50 PM PLTDRV: OHDOT_PDF.plt USER: WORKSPACE: OHDOT WORKSET: 122200_24007584-00_DMSQWSDesign PRODUCT: OpenRoads Designer: 10.12.03.2 L:\ODOT\24007584-00_DMSQWSDesign\122200\400-Engineering\Roadway\Sheets\122200_GT101.dgn

POWER SERVICE COORDINATION

NEW AND REUSED POWER SERVICES ARE PROPOSED AS PART OF THE PROJECT. CONTRACTOR TO COORDINATE NEW AND REUSED POWER SERVICE WITH THE UTILITY COMPANY (AEP) AT (800)672-2231 PRIOR TO BEGINNING WORK.

ACCESSING EXISTING FIBER PULLBOXES

EXISTING FIBER PULLBOXES MAY CONTAIN FIBER OPTIC CABLE SLACK. CONTRACTOR SHALL USE CAUTION WHEN ENTERING FIBER PULLBOXES. EXISTING FIBER OPTIC CABLES SHALL BE MAINTAINED AT ALL TIMES.

ITEM 625 CONDUIT, 2", 725.04, AS PER PLAN

IN ADDITION TO ITEM 625, THE CONTRACTOR SHALL FURNISH AND INSTALL A SUPPORT FOR CABLES ON THE I-670 AT SCIOTO RIVER BRIDGE STRUCTURE. SEE BRIDGE DETAIL FOR MOUNTING OF CONDUIT. THE CONDUIT IS TO BE MOUNTED IN A WAY TO MINIMIZE DAMAGE DUE TO VANDALISM OR DEBRIS.

PAYMENT FOR ITEM 625 CONDUIT, 2", 725.04, AS PER PLAN SHALL BE MADE FOR THE LINEAR FEET OF CONDUIT INSTALLED, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS AND NEW HANGER ASSEMBLY HARDWARE.

ITEM 625 CONDUIT CLEANED AND CABLES REMOVED, AS PER PLAN

THIS ITEM SHALL CONSIST OF CLEANING AN EXISTING CONDUIT BY REMOVING EXISTING UNUSED CABLES, MUD AND DEBRIS, AND MAINTAIN ALL ACTIVE CABLES PRIOR TO BEING REUSED. INCIDENTAL TO THE CLEANING IS THE INSTALLATION OF BUSHINGS AND/OR COUPLINGS ON THE ENDS OF EXISTING CONDUIT AS REQUIRED. MATERIALS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR FOR PROPER DISPOSAL OFF OF THE PROJECT SITE. DISTURBED AREAS SHALL BE PROPERLY RESTORED.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER C&MS ITEM 625 CONDUIT CLEANED AND CABLES REMOVED, AS PER PLAN PER FOOT OF CONDUIT CLEANED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 ARC FLASH CALCULATIONS AND LABEL, BY TYPE

THIS ITEM SHALL INCLUDE PROGRAMMING ARC FLASH HAZARD CALCULATIONS AND LABELS PER SUPPLEMENTAL SPECIFICATION 825. A SINGLE ARC FLASH HAZARD STUDY SHALL BE PERFORMED FOR EACH SITE FROM UTILITY INTERCONNECTION TO ALL DOWNSTREAM DEVICES. LABELS FOR SITES SHALL BE APPLIED TO THE OUTSIDE OF EACH ITS CABINET ON BOTH DOORS AND ALL DISCONNECTS/SAFETY SWITCHES. LABELS SHALL NOT COVER ANY EXISTING NAMEPLATES OR LABELS ON DISCONNECTS/SAFETY SWITCHES WHEN APPLIED. LABELS SHALL BE PROVIDED BY THE CONTRACTOR. CALCULATIONS SHALL BE GIVEN TO THE PROJECT ENGINEER AND ITS ENGINEER AS DESCRIBED IN THE SUPPLEMENTAL.

USE LABEL 825.08.A, ODOT VERSION "A".

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR EACH ITEM 625 ARC FLASH CALCULATIONS AND LABEL, BY TYPE FOR EACH SITE INCLUDING ALL LABOR, MATERIALS AND INCIDENTALS NECESSARY.

ITEM 625 - LIGHTING, MISC.: POWER SERVICE, ITS & LIGHTING, 480V, SINGLE-PHASE

THIS ITEM OF WORK SHALL INCLUDE THE FURNISHING AND INSTALLATION OF A GROUND MOUNTED POWER SERVICE INCLUDING CONTROL EQUIPMENT, CONDUITS, FITTINGS, CABLES, AND CONNECTORS. THE POWER SERVICE WILL BE A COMBINED SERVICE PROVIDING POWER FOR ITS EQUIPMENT AND HIGHWAY LIGHTING EQUIPMENT.

IN ADDITION TO THE REQUIREMENTS OF ODOT CMS SECTIONS 625, 725, SS809, AND SS909, THE FOLLOWING SHALL APPLY.

THE POWER SERVICE SHALL BE A 480V, SINGLE-PHASE, 2-WIRE SERVICE.

THE POWER SERVICE SHALL BE A GROUND-MOUNTED SERVICE WITH CT-METERING, IF REQUIRED, PER ODOT STANDARD DRAWING HL-40.20 EXCEPT SEPARATE ITS RACK SHALL ALSO BE INCLUDED. SEE DETAIL "C" ON POWER SERVICE DETAILS SHEET.

THE LIGHTING ENCLOSURE SHALL BE SIZED TO HOUSE THE CONTROL EQUIPMENT INCLUDING THE PANEL BOARD(S) WITH INDIVIDUAL CIRCUIT OVERCURRENT PROTECTION DEVICES, MAGNETICALLY HELD LIGHTING CONTACTOR, PHOTOELECTRIC CELL AND HAND-OFF-AUTOMATIC SWITCH FOR CONTROL OF CONTACTOR. SEE DETAIL "A" ON POWER SERVICE DETAILS SHEET FOR SPECIFIC INFORMATION ON INDIVIDUAL CIRCUIT SIZES.

THE ITS RACK SHALL BE PER SS809.03.A AND SS909 EXCEPT AN ADDITIONAL DISCONNECT PER SS809.03.B SHALL BE INCLUDED AS SHOWN IN DETAIL "C" ON THE POWER SERVICE DETAILS SHEET. THE RACK SHOULD INCLUDE A 480V TO 120V STEP-DOWN TRANSFORMER FOR THE IDENTIFIED ITS CAMERA SITE CIRCUIT.

THE FUSED DISCONNECT SWITCH SHALL BE MOUNTED PER STANDARD DRAWING (OR ELECTRIC COMPANY STANDARD). THE DISCONNECT ENCLOSURES SHALL BE NEMA 3R RATED AND SHALL HAVE AN INTERLOCK TO PREVENT ACCESS WHEN THE SWITCH IS IN THE "ON" POSITION. DISCONNECT SWITCH LUGS SHALL BE SET SCREW TYPE AND SHALL BE SIZED TO ACCOMMODATE THE UTILITY SUPPLIED 1/0 TO 350KCM AWG COPPER SERVICE ENTRANCE CABLE.

ALL TRENCHING, CONDUIT, SERVICE CABLES, AND CONNECTIONS NECESSARY TO CONNECT THE PROPOSED POWER SERVICE TO THE POWER COMPANY SERVICE POINT, AND TO RECONNECT TO THE EXISTING ITS AND HIGHWAY LIGHTING CIRCUITS, SHALL BE INCIDENTAL TO THIS BID ITEM.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS: COLUMBUS DIVISION OF POWER

THE CONTRACTOR SHALL COORDINATE RELATED WORK WITH THE POWER SUPPLYING AGENCY WHO WILL MAKE THE FINAL ELECTRICAL CONNECTION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SPLICE THE POWER CABLE INTO ELECTRIC COMPANY CIRCUITRY.

THE CONTRACTOR SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY.

PRIOR TO ORDERING, FABRICATION, OR INSTALLATION OF ANY NEW ELECTRICAL EQUIPMENT OR MATERIALS, THE CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING ELECTRICAL CONDITIONS. VERIFICATION SHALL INCLUDE, AT A MINIMUM, EXISTING SERVICE AND FEEDER VOLTAGES, PHASE CONFIGURATION, CIRCUIT SIZES, CONDUCTOR SIZES, AVAILABLE FAULT CURRENT (WHERE APPLICABLE), AND BREAKER OR OVERCURRENT PROTECTIVE DEVICE RATINGS.

ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE PROMPTLY REPORTED TO THE ENGINEER IN WRITING PRIOR TO PROCUREMENT. THE CONTRACTOR SHALL NOT PROCEED WITH ORDERING EQUIPMENT OR MATERIALS UNTIL DISCREPANCIES HAVE BEEN RESOLVED AND WRITTEN DIRECTION HAS BEEN RECEIVED.

COSTS ASSOCIATED WITH FAILURE TO VERIFY EXISTING CONDITIONS PRIOR TO PROCUREMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ITEM 630 REMOVAL OF STRUCTURE MOUNTED SIGN AND REERECTION, AS PER PLAN

THE EXISTING E5-H1A SIGN WAS STRUCK DURING THE DESIGN PERIOD. IN THE EVENT WHERE THE SIGN HAS NOT BEEN REERECTED PRIOR TO THE BEGINNING OF CONSTRUCTION, THIS ITEM OF WORK IS FOR THE CONTRACTOR TO REERECT THE EXISTING SIGN ON NEW SUPPORT AND USING THE EXISTING FOUNDATION. REMOVED MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR.

THE CONTRACTOR SHALL FIELD MEASURE EXISTING ELEVATIONS TO ENSURE THE REERECTED SIGN MEETS TC-41.10 AND TC-42.10 REQUIREMENTS.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR EACH ITEM 630 REMOVAL OF STRUCTURE MOUNTED SIGN AND REERECTION, AS PER PLAN INCLUDING ALL LABOR, MATERIALS AND INCIDENTALS NECESSARY. THE BEAM SUPPORT IS INCLUDED AS PART OF THIS PAY ITEM.

ITEM 632 REUSE OF TRAFFIC CONTROL ITEM: COMMUNICATIONS PULLBOX

EXISTING FIBER PULLBOXES THAT ARE NOTED AS BEING REUSED IN THE PLANS ARE EXPECTED TO BE DISTURBED DUE TO NEW CABLE OR CONDUIT INSTALLATION. WHEN CONDUIT IS INSTALLED INTO EXISTING PULL BOXES, THE CONTRACTOR SHALL ENSURE ALL KNOCKOUTS ARE FULLY MORTARED AND SEALED.

IN ADDITION TO THE REQUIREMENTS OF ODOT C&MS 632.27, THE CONTRACTOR SHALL PROVIDE A WORK PAD SURROUNDING THE REUSED PULLBOX CONSISTENT WITH ITS-14.11.

COSTS ASSOCIATED WITH THESE REQUIREMENTS SHALL BE INCLUDED IN UNIT PRICE BID OF EACH ITEM 632 REUSE TRAFFIC CONTROL ITEM: COMMUNICATIONS PULLBOX.

ITEM 632 REUSE OF TRAFFIC CONTROL ITEM: ELECTRIC PULLBOX

EXISTING ELECTRIC PULLBOXES THAT ARE NOTED AS BEING REUSED IN THE PLANS ARE EXPECTED TO BE DISTURBED DUE TO NEW CABLE OR CONDUIT INSTALLATION. WHEN CONDUIT IS INSTALLED INTO EXISTING PULL BOXES, THE CONTRACTOR SHALL ENSURE ALL KNOCKOUTS ARE FULLY MORTARED AND SEALED.

IN ADDITION TO THE REQUIREMENTS OF ODOT C&MS 632.27, THIS ITEM OF WORK SHALL CONSIST OF CLEANING AN EXISTING PULL BOX BY REMOVING ANY EXISTING UNUSED CABLES, MUD AND DEBRIS, AND MAINTAIN ALL ACTIVE CABLES INSIDE THE EXISTING PULLBOX AS NEEDED PRIOR TO BEING REUSED. ANY UNUSED OPENINGS SHALL BE CLOSED. DISTURBED AREAS NEAR THE PULL BOX SHALL BE CLEARED OF WEEDS OR DEBRIS AND SHALL BE FULLY RESTORED. MATERIAL REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF OF THE PROJECT SITE.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID OF EACH ITEM 632 REUSE OF TRAFFIC CONTROL ITEM: ELECTRIC PULLBOX WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 633 CABINET FOUNDATION, AS PER PLAN

THE CONTRACTOR SHALL INSTALL A CABINET FOUNDATION FOR EACH ITS GROUND MOUNTED CABINET. SEE SUPPLEMENTAL SPECIFICATION 809 FOR CONDUIT REQUIREMENTS ENTERING THE ITS GROUND MOUNTED CABINET.

ITEM 809 AS-BUILT CONSTRUCTION PLANS AND GPS COORDINATES

PRIOR TO THE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE AS-BUILT PLANS AND GPS COORDINATES PER THE REQUIREMENTS IN SUPPLEMENTAL SPECIFICATION 809.

ITEM 809 CONDUIT, 4", MULTICELL, HDPE WITH 4 – 1" INNERDUCTS

THE CONTRACTOR SHALL FURNISH AND INSTALL THIS ITEM ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809, AS WELL AS ANY STANDARD CONSTRUCTION DRAWINGS NOTED ON THE PLANS.

ITEM 809 CONDUIT, MULTICELL, MISC.: CONDUIT, 4", MULTICELL, GRC WITH 4 – 1" HDPE INNERDUCTS

THIS ITEM OF WORK SHALL FOLLOW THE REQUIREMENTS OF ITEM 625 CONDUIT, 2", 725.04, AS PER PLAN EXCEPT THAT THE CONDUIT TO BE ATTACHED TO THE BRIDGE IS A 4" GALV. CONDUIT, MULTICELL, WITH 4 – 1" HDPE INNERDUCTS CONSISTENT WITH THE REQUIREMENTS OF SUPPLEMENTAL SPECIFICATIONS 809 AND STANDARD CONSTRUCTION DRAWINGS NOTED ON THE PLANS.

ITEM 809 CONDUIT, JACKED OR DRILLED, 4", MULTICELL, HDPE WITH 4 – 1" INNERDUCTS

THIS ITEM OF WORK SHALL FOLLOW THE REQUIREMENTS OF ITEM 809 CONDUIT, 4", MULTICELL, HDPE WITH 4-1" INNERDUCTS, EXCEPT THAT THE CONDUIT IS JACKED OR DRILLED AS SHOWN IN THE PLANS.

ITEM 809 CCTV POLE, 50' TALL

THE CONTRACTOR SHALL FURNISH AND INSTALL THIS ITEM ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809, AS WELL AS ANY STANDARD CONSTRUCTION DRAWINGS NOTED ON THE PLANS. THE CONTRACTOR SHALL DETERMINE WHICH TYPE OF POLE TO FURNISH AND INSTALL (CONCRETE OR STEEL) WHEN BIDDING ON THIS ITEM. THE POLE AND FOUNDATION/ EMBEDMENT ARE INCIDENTAL TO THIS ITEM REGARDLESS OF MATERIAL TYPE. THE CONTRACTOR SHALL ALSO PROVIDE AND INSTALL ONE COMPLETE LOWERING UNIT TOOL ASSEMBLY PER CAMERA FOR LOWERING CAMERAS PER SUPPLEMENTAL SPECIFICATION 809 (PAID SEPARATELY).

THE CONTRACTOR SHALL FURNISH/INSTALL POLES WITH THE CORRECT LENGTH/EMBEDMENT AND ALL COUPLINGS, HANDHOLES, ETC., IN THE APPROPRIATE LOCATION ABOVE GROUND ACCORDING TO SCD ITS-12.10 OR ITS-12.11.

FOR SITE QWS-GRND-D6-I670 EB, LOCATED AT I-670 EB SLM 3.18, THE POLE HEIGHT SHALL BE 50 FT ABOVE GROUND. THE EMBEDMENT DEPTH FOR A CONCRETE POLE SHALL BE A MINIMUM OF 12 FT. A SPECIAL FOUNDATION DESIGN IS NOT REQUIRED FOR A STEEL POLE.

THE CONTRACTOR MAY FURNISH/INSTALL LONGER OVERALL LENGTH CONCRETE POLES AT A DEEPER EMBEDMENT DEPTH IF IT IS MORE BENEFICIAL FOR MANUFACTURING, SHIPPING, ETC., AS LONG AS ALL ABOVE GROUND COMPONENTS MAINTAIN APPROPRIATE HEIGHT LEVEL.

THE CONTRACTOR SHALL SUBMIT ALL POLE MANUFACTURER FABRICATION DRAWING SUBMITTALS, AS WELL AS INSTALLATION PROCEDURES AND BACKFILL MATERIAL, TO THE ENGINEER FOR ACCEPTANCE BEFORE ORDERING.

PAYMENT FOR EACH POLE COMPLETE, INSTALLED, AND ACCEPTED SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 809 CCTV POLE, 50' TALL.

ITEM 809 DYNAMIC MESSAGE SIGN (DMS), FRONT-ACCESS

THE CONTRACTOR SHALL FURNISH AND INSTALL THIS ITEM ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809, AS WELL AS ANY STANDARD CONSTRUCTION DRAWINGS NOTED ON THE PLANS.

DYNAMIC MESSAGE SIGN (DMS), FRONT-ACCESS LOCATIONS:

1. QWS PANEL AT LOCATION #2: I-70 EB SLM 16.27 (KELTON AVE. ENTRANCE RAMP GORE)
2. QWS PANEL AT LOCATION #4: I-71 SB SLM 24.11 (SOUTH OF MORSE RD RAMPS)
3. QWS PANEL AT LOCATION #8: I-270 SB SLM 44.57 (EAST OF SR-317)
4. QWS PANEL AT LOCATION #9: I-670 EB SLM 2.28 (SOUTH OF SCIOTO RIVER BRIDGE)
5. QWS PANEL AT LOCATION #12: OH-315 SB SLM 2.41 (EXIT RAMP TO I-670 EB)

ITEM 809 ITS DEVICE, MISC.: REMOVAL OF EXISTING ITS CABINET

THE EXISTING CABINET SHALL BE REMOVED IN ACCORDANCE WITH C&MS 632.26 AND AS INDICATED ON THE PLANS.

EXISTING ITS EQUIPMENT IN THE EXISTING ITS CABINET IS TO BE RELOCATED INTO NEW ITS CABINET BY ODOT FORCES. THE CONTRACTOR SHALL COORDINATE WITH ODOT ITS AND ODOT DISTRICT 6 PRIOR TO REMOVING THE EXISTING ITS CABINET. REMOVED ITS CABINET SHALL BE DELIVERED TO ODOT ITS CENTRAL OFFICE.

COST ASSOCIATED WITH THESE REQUIREMENTS SHALL BE INCLUDED IN UNIT PRICE BID OF EACH ITEM 809 ITS DEVICE, MISC.: REMOVAL OF EXISTING ITS CABINET.

ITEM 809 ITS DEVICE, MISC.: ITS POWER SERVICE, POLE MOUNTED, 120/240V, 100 AMP, AS PER PLAN

THIS ITEM OF WORK SHALL FOLLOW THE REQUIREMENTS OF ITEM 809 ITS POWER SERVICE, POLE MOUNTED, 120/240V, 100 AMP EXCEPT THAT A SEPARATE DISCONNECT SWITCH CONSISTENT WITH THE REQUIREMENTS OF SUPPLEMENTAL SPECIFICATIONS 809 SHALL BE PROVIDED FOR THE EXISTING ATR COUNT STATION.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID OF EACH ITEM 809 ITS DEVICE, MISC.: ITS POWER SERVICE, POLE MOUNTED, 120/240V, 100 AMP, AS PER PLAN WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 809 MAINTAINING ITS DURING CONSTRUCTION

THE CONTRACTOR SHALL MAINTAIN ALL PREEXISTING OR NEWLY INSTALLED PERMANENT ITS/TRAFFIC DEVICES AND INFRASTRUCTURE DURING CONSTRUCTION ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809.

DESIGN AGENCY



DESIGNER

GSH

REVIEWER

SAK 03/20/26

PROJECT ID

122200

SHEET

P.5

TOTAL 36

ITEM 809 ITS DEVICE, MISC.: MAINTENANCE OF EXISTING POWER SERVICE

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS NECESSARY FOR MAINTENANCE OF AN EXISTING POLE-MOUNTED POWER SERVICE PER ODOT STANDARD CONSTRUCTION DRAWINGS ITS-15.11, PRIOR TO ESTABLISHING A CONNECTION TO NEW ITS EQUIPMENT AS NOTED IN THE PLANS.

THE EXISTING POLE-MOUNTED POWER SERVICE FOR THE SITE SHALL BE MAINTAINED. THIS PAY ITEM SHALL INCLUDE THE REPLACEMENT OF EXISTING OR INSTALLATION OF NEW DISCONNECT SWITCHES USED TO DIRECTLY POWER THE ITS SITE, INSTALLING NEW CONDUIT CONNECTIONS, AND INSTALLING A NEW METER BASE ON AN EXISTING POLE MOUNTED POWER SERVICE. THIS PAY ITEM SHALL ALSO INCLUDE THE CONSTRUCTION OF A NEW POWER SERVICE RACK, AS DIRECTED BY THE ENGINEER.

THE FINAL MODIFIED POWER SERVICE SHALL BE LIKE NEW PER ITS-15.11. THE ITS RELATED POWER SERVICES SHALL BE MARKED WITH "ITS". SEPARATE DISCONNECT SWITCHES SHALL BE INSTALLED AND SHALL BE FUSIBLE. FOR 60 AMP SERVICES, DISCONNECT SWITCHES SHALL BE RATED FOR 60 AMPS WITH NEMA 4X ENCLOSURE, AND FUSED AT 30 AMPS. FOR 100 AMP SERVICES, DISCONNECT SWITCHES SHALL BE RATED FOR 100 AMPS WITH NEMA 4X ENCLOSURE, AND FUSED AT 80 AMPS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE APPROPRIATE CONTACT WITH THE POWER COMPANY FOR DEENERGIZING AND ENERGIZING OF ANY POWER LINES.

SALVAGE EXISTING METER BASES AND DISCONNECT SWITCHES. COORDINATE WITH ODOT ITS FOR RETRIEVAL. ALL OTHER EXISTING POWER SERVICE ITEMS SHALL BE DISPOSED OF BY CONTRACTOR.

CITY OF COLUMBUS - DIVISION OF POWER

THE CITY OF COLUMBUS DIVISION OF POWER (DOP) MAY HAVE OVERHEAD AND UNDERGROUND PRIMARY, SECONDARY, AND STREET LIGHTING AT THIS WORK LOCATION. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT OHIO 811 (PREVIOUSLY OUPS) AT 811 OR 1-800-362-2764 FORTY-EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA. ANY PROJECT, BOTH PUBLIC OR PRIVATE, WITH IMPACTS REQUIRING RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT.

UNLESS PREVIOUSLY AUTHORIZED, DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT.

NO PERSON SHALL WORK ON DOP FACILITIES UNLESS THEY HAVE COMPLETED CONTRACTOR SAFETY ORIENTATION WITH DOP. ANY PERSON WORKING ON DOP FACILITIES ON LIVE CONDUCTORS OR CONDUCTORS THAT MAY BECOME LIVE SHALL COMPLY WITH DOP'S CONDUCTOR SAFETY POLICY (TDMIS-1603), HOLD CARD SYSTEM (TDMIS-1604) AND STREET LIGHT LOCK OUT TAG OUT PROCEDURE (MIS-1). PRIOR TO BEGINNING WORK ON DOP FACILITIES, EACH PERSON SHALL CONTACT DOP'S DISPATCH OFFICE AT 614-645-7627 AND PROVIDE THEIR NAME, PHONE NUMBER, LOCATION, DESCRIPTION OF WORK AND CIRCUIT NUMBER. AT THE COMPLETION OF WORK, EACH PERSON SHALL NOTIFY DOP'S DISPATCH OFFICE.

THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTIONS AND MATERIAL SPECIFICATIONS" (CMSC). ANY NEW OR RE INSTALLED STREET LIGHTING SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1001.18 OF THE CMSC MANUAL. CONTRACTORS WORKING ON STREET LIGHTING SHALL CONFORM TO DOP'S EXISTING STREET LIGHT LOCKOUT/TAGOUT (LOTO) PROCEDURE, MIS-1, COPIES OF WHICH ARE AVAILABLE FROM DROP AND ON THE CITY WEBSITE.

EMERGENCIES: IF ANY ELECTRICAL FACILITY BELONGING TO DOP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENCIES, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE DOP DISPATCH OFFICE SHOULD BE CONTACTED IMMEDIATELY AT (614) 645.7627. DOP SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER, CITY OF COLUMBUS, OHIO.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

EROSION AND SEDIMENT CONTROL
LAND DISTURBANCE AREAS LESS THAN ONE ACRE AND NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT ARE NOT REQUIRED TO SUBMIT TO THE CITY OF COLUMBUS A FULL SCALE EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL. HOWEVER, THE PROPOSED LAND DISTURBING ACTIVITIES MUST COMPLY WITH ALL OF THE PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATION. ALL LAND DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS TO DETERMINE COMPLIANCE WITH CITY STANDARDS AND REGULATIONS. FAILURE TO COMPLY WITH THESE REGULATIONS MAY SUBJECT THE SITE TO ENFORCEMENT ACTION BY THE CITY. QUESTIONS REGARDING EROSION AND SEDIMENT CONTROL MAY BE REFERRED TO THE STORMWATER MANAGEMENT OFFICE AT 645-6311.

ON SITE CONTACT: LAURA L. WRIGHT, P.E.
PHONE: 740.833.8228
E-MAIL: LAURA.WRIGHT@DOT.OHIO.GOV
SITES ARE A TRIBUTARY TO: BIG WALNUT CREEK, ALUM CREEK, OLENTANGY RIVER, OR SCIOTO RIVER

DEMOLITION PAGE
ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.

UTILITY NOTIFICATION

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DIVISIONS AT LEAST 24-HOURS IN ADVANCE OF ANTICIPATED START OF CONSTRUCTION:

DIVISION OF SEWERAGE AND DRAINAGE (614) 645-7102
DIVISION OF DESIGN AND CONSTRUCTION (CONSTRUCTION SECTION) (614) 645-0433.
THE CONTRACTOR SHALL REQUEST INSPECTION BY EMAILING THE FOLLOWING INFORMATION TO PRIVATEDEVELOPMENT@COLUMBUS.GOV BY 2PM THE WORKING DAY PRIOR TO YOUR NEEDED INSPECTION:

CONTACT NAME AND NUMBER
CID AGREEMENT OR CC #, AGR OR DRAWER E #, EP#
PROJECT NAME
DATE INSPECTION IS NEEDED

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48-HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48-HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.

CITY OF COLUMBUS - DIVISION OF WATER

FOR ANY EMERGENCIES INVOLVING THE WATER DISTRIBUTION SYSTEM, PLEASE CONTACT THE DIVISION OF WATER DISTRIBUTION MAINTENANCE OFFICE AT 614-645-7788.

IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON CITY OF COLUMBUS WATER MAIN SYSTEMS WITHOUT FIRST SECURING LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTION 1103.02 AND 1103.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS IN ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE LINES AND TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO HOLDS A CITY OF COLUMBUS WATER CONTRACTOR LICENSE OR A COMBINED WATER/SEWER CONTRACTOR LICENSE TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE, IN PARTICULAR SECTION 4114.119 AND 4114.529.

THE CONTRACTOR SHALL OBTAIN THE PROPER HYDRANT PERMIT(S), AND PAY ANY APPLICABLE FEES, FOR ANY APPROVED HYDRANT USAGE DEEMED NECESSARY FOR WORK UNDER THIS IMPROVEMENT. PERMITS MAY BE OBTAINED THROUGH THE DIVISION OF WATER PERMIT OFFICE (614-645-7330). THE CONTRACTOR SHALL ADHERE TO ALL RULES & REGULATIONS GOVERNING SAID PERMIT AND MUST HAVE THE ORIGINAL PERMIT ON SITE ANYTIME IN WHICH THE HYDRANT IS IN USE. PERMITS MAY BE OBTAINED BY ACCESSING [HTTP://PORTAL.COLUMBUS.GOV/PERMITS/](http://portal.columbus.gov/permits/). COST TO BE INCLUDED IN THE VARIOUS BID ITEMS.

WHEN CROSSING THE EXISTING WATER MAIN, AND LOW STRENGTH MORTAR (ITEM 613) IS TO BE USED AS BACKFILL, THE CONTRACTOR SHALL PROVIDE SIZE NO. 57 CRUSHED CARBONATE STONE (CCS) 1 FOOT BELOW TO 1 FOOT ABOVE THE EXISTING WATER MAIN.

FLOODPLAIN INFORMATION	DATA									
FIRM PANEL NO.	39049C0337K	39049C0329K	39049C0341K	39049C0333K	39049C0188K	39049C0342L	39049C0344K	39049C0309K	39049C0307K	39049C0169K
EFFECTIVE DATE	6/17/2008	6/17/2008	6/17/2008	6/17/2008	6/17/2008	6/16/2011	6/17/2008	6/17/2008	6/17/2008	6/17/2008
FLOOD ZONE(S)	NONE	NONE	NONE	NONE	NONE	NONE	NONE	X, AE	X,AE	NONE
BASE FLOOD ELEVATION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	722.5	720.1	N/A
FILL/OBSTRUCTION IN FLOODWAY?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
REFERENCE SHEET NO.	P.16	P.16	P.16	P.16	P.20-P.21	P.23	P.24	P.26-P.27	P.28, P.32-P.34	P.35

DESIGN AGENCY



DESIGNER

GSH

REVIEWER

SAK 03/20/26

PROJECT ID

122200

SHEET TOTAL

P.6 36

ITEM	DESCRIPTION	UNIT	SHEET NO.													TOTAL CARRIED TO GENERAL SUMMARY
			P.14	P.15	P.16	P.18, P.19	P.20	P.21	P.23	P.24	P.26, P.27	P.28	P.32	P.33, P.34	P.35	
			LOCATION													
			FRA-I70-15.96 (EB)	FRA-I70-16.27 (EB)	FRA-I70-17.99 (EB)	FRA-I71-24.11 (SB)	FRA-I71-21.87 (SB)	FRA-I71-21.09 (SB)	FRA-I270-44.57 (SB)	FRA-I270-46.09 (NB)	FRA-I670-2.28 (EB)	FRA-I670-3.37 (EB)	FRA-OH315-2.35 (SB)	FRA-OH315-2.41 (SB)	FRA-OH315-4.28 (SB)	
513	STRUCTURAL STEEL MEMBERS, LEVEL UF	LS									1				1	
625	NO. 1/0 AWG 2400 VOLT DISTRIBUTION CABLE	FT		2590											2590	
625	NO. 6 AWG 600 VOLT DISTRIBUTION CABLE	FT							320	140	6640				7100	
625	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	FT				8040								8840	16880	
625	NO. 2 AWG 600 VOLT DISTRIBUTION CABLE	FT										1890			1890	
625	CONDUIT, 2", 725.04, AS PER PLAN	FT									580				580	
625	CONDUIT, 3", 725.052	FT		543		228				48		48		12	879	
625	CONDUIT, JACKED OR DRILLED, 725.052, 4"	FT							105		321	101		254	781	
625	CONDUIT CLEANED AND CABLES REMOVED, AS PER PLAN	FT		24		1075				25					1124	
625	TRENCH, 30" DEEP	FT		650		2010			150	44	810	530		1920	6114	
625	PULL BOX, 725.08, 18"	EACH		2		6			1		5	3		8	25	
625	GROUND ROD	EACH	1	2		4			2	1	4	2	1	3	20	
625	STRUCTURE GROUNDING SYSTEM	EACH									1				1	
625	UNDERGROUND WARNING/MARKING TAPE	FT		650		2010			150	44	810	530		1920	6114	
625	POWER SERVICE REMOVED	EACH		1		1					1				3	
625	ARC FLASH CALCULATIONS AND LABEL, ITS CABINET	EACH		1		1			1	1	1	1		1	7	
625	ARC FLASH CALCULATIONS AND LABEL, POWER SERVICE	EACH		1		1			1		1			1	5	
625	LIGHTING, MISC.: POWER SERVICE, ITS & LIGHTING, 480V, SINGLE-PHASE	EACH									1				1	
630	GROUND MOUNTED SUPPORT, NO. 3 POST	FT	12.5												12.5	
630	GROUND MOUNTED SUPPORT, NO. 4 POST	FT											31		31	
630	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X22	FT		42.8		47.5			49.5		47.8			52.2	239.8	
630	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	FT	31.6												31.6	
630	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W12X30	FT											66		66	
630	BREAKAWAY STRUCTURAL BEAM CONNECTION	EACH	2	2		2			2		2		2	2	14	
630	SIGN ATTACHMENT ASSEMBLY	EACH	2	2		2			2		2		2	2	14	
630	SIGN, FLAT SHEET	SF	23.75										20		43.75	
630	SIGN, GROUND MOUNTED EXTRUSHEET	SF	42										160		202	
630	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	EACH	2	2		2			2		2		2	2	14	
630	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	EACH											1		1	
630	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	EACH											2		2	
630	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	EACH		2									2		4	
630	REMOVAL OF STRUCTURE MOUNTED SIGN AND DISPOSAL	EACH		2									1		3	
630	REMOVAL OF STRUCTURE MOUNTED SIGN AND REERECTION, AS PER PLAN	EACH											1		1	
632	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG	FT				50									50	
632	SERVICE CABLE, 3 CONDUCTOR, NO. 4 AWG	FT				50			90						140	
632	CONDUIT RISER, 2" DIAMETER, GALVANIZED	EACH		2		2			2		2			3	11	
632	REUSE OF TRAFFIC CONTROL ITEM: COMMUNICATIONS PULLBOX	EACH		2		2			1		1	1		1	9	
632	REUSE OF TRAFFIC CONTROL ITEM: ELECTRIC PULLBOX	EACH		1						1	2	1		1	6	
633	CABINET FOUNDATION, AS PER PLAN	EACH		1		1			1	1	1	1		1	7	
633	CONTROLLER WORK PAD	EACH		1		1			1	1	1	1		1	7	
804	FIBER OPTIC CABLE, 24 FIBER	FT				2650			1780		2760	2100		1560	10850	
804	FIBER OPTIC CABLE, 72 FIBER	FT								1970					1970	
804	FIBER TERMINATION PANEL, 24 FIBER	EACH		1		1			1		1	1		1	6	
804	FIBER TERMINATION PANEL, 72 FIBER	EACH								1					1	
809	ITS PULL BOX WITH PAD AND STANDARD LID ASSEMBLY, 32" WIDE, TYPE 1	EACH		1		2			1		1	2		1	8	
809	ITS PULL BOX WITH PAD AND HINGED LID ASSEMBLY, 32" WIDE, TYPE 1	EACH				2					5			1	8	
809	TRACER WIRE	FT		650		2010			150	50	2650	640		2180	8330	
809	CONDUIT, 2" DIAMETER, HDPE	FT		100		1848			182	20	789	544		1971	5454	
809	CONDUIT, MULTICELL, JACKED OR DRILLED, 4", MULTICELL, HDPE WITH 4 - 1" INNERDUCTS	FT							105		373	130			608	
809	CONDUIT, 4", MULTICELL, HDPE WITH 4 - 1" INNERDUCTS	FT		36		1683					608	493		678	3498	
809	CONDUIT, MULTICELL, MISC.: CONDUIT, 4", MULTICELL, GRC WITH 4 - 1" HDPE INNERDUCTS	FT									580				580	
809	ITS POWER SERVICE, GROUND MOUNTED, 120/240V, 100 AMP	EACH							1						1	
809	ITS POWER SERVICE, GROUND MOUNTED, 240/480V, 100 AMP	EACH					1								1	
809	ITS POWER SERVICE, POLE MOUNTED, 240/480V, 100 AMP	EACH												1	1	
809	CCTV IP-CAMERA SYSTEM, FIXED-VIEW	EACH			1			1		1		2		1	9	
809	CCTV POLE, 50' TALL	EACH										1			1	
809	DYNAMIC MESSAGE SIGN (DMS), FRONT-ACCESS	EACH		1		1			1		1			1	5	
809	ETHERNET CABLE, OUTDOOR-RATED	FT			100		100	150		430		200		100	1180	
809	ITS CABINET - GROUND MOUNTED	EACH							1		1	1			2	
809	ITS CABINET - DMS	EACH		1		1			1		1			1	5	
809	STEP-DOWN TRANSFORMER, 3KVA	EACH					1								1	
809	STEP-DOWN TRANSFORMER, 7.5KVA	EACH					1				1				3	
809	ITS DEVICE, MISC.: REMOVAL OF EXISTING ITS CABINET	EACH								1				1	1	
809	ITS DEVICE, MISC.: MAINTENANCE OF EXISTING POWER SERVICE	EACH										1			1	
809	ITS DEVICE, MISC.: ITS POWER SERVICE, POLE MOUNTED, 120/240V, 100 AMP, AS PER PLAN	EACH		1											1	

ITS SUBSUMMARY

DESIGN AGENCY

 CRAWFORD, MURPHY & TILLY, INC.
 1000 W. 10TH STREET, SUITE 100
 COLUMBUS, OH 43235
 www.cmtinc.com

DESIGNER
 GSH

REVIEWER
 SAK 03/20/26

PROJECT ID
 122200

SHEET TOTAL
 P.12 36

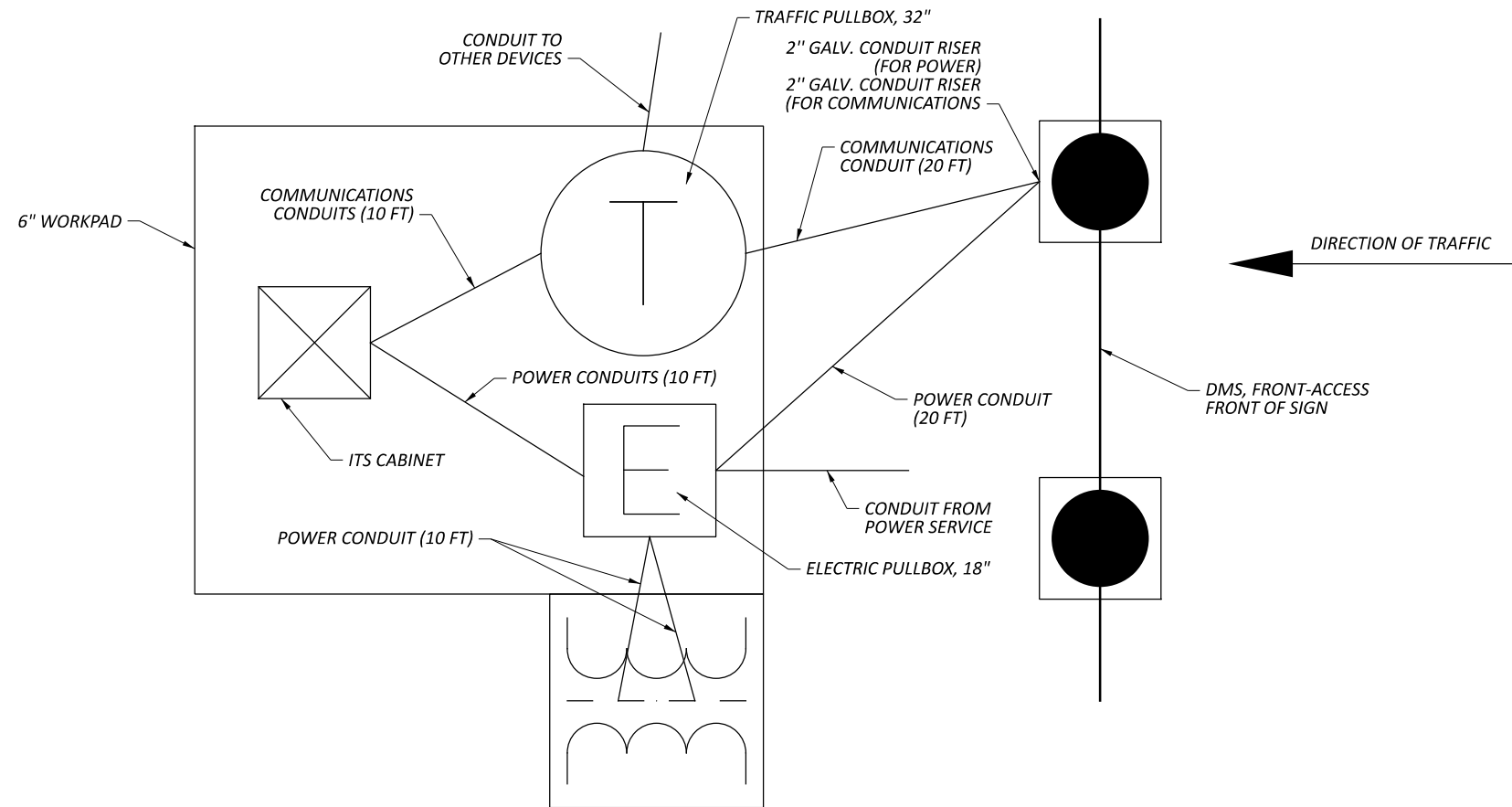
ITS LEGEND

EXISTING	PROPOSED	DESCRIPTION
		GROUND MOUNTED POWER SERVICE
		ITS CABINET
		ELECTRIC PULL BOX
		STEP-UP/DOWN TRANSFORMER
		UTILITY POLE
		CCTV POLE
		CCTV IP-CAMERA SYSTEM, FIXED VIEW
		EX PTZ CAMERA
		TRAFFIC / COMMUNICATIONS PULL BOX
		STRUCTURE MTD SIGN OR DMS
		CONCRETE WORKPAD
		PR CONDUIT
		EX COMMUNICATIONS
		EX POWER
		PR TREE TRIMMING
		PR ACCESS DRIVE

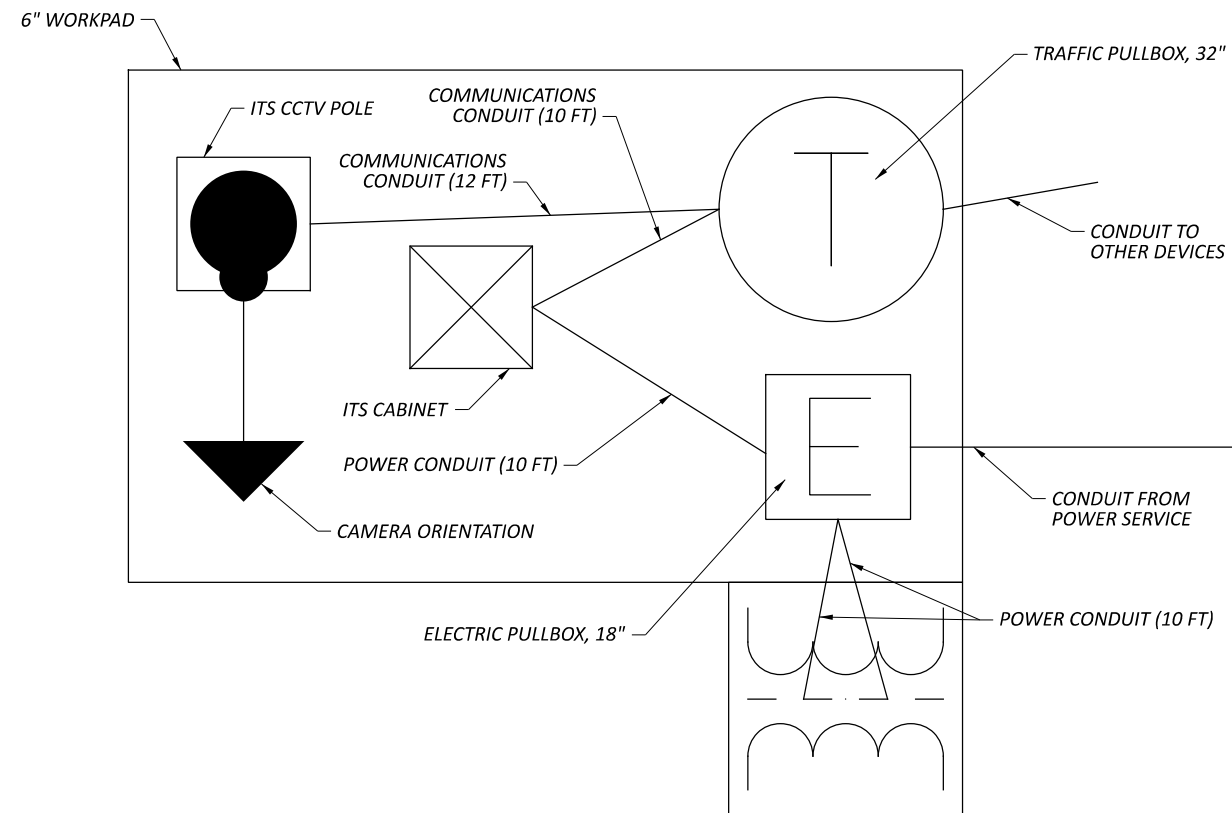
NOTES:

1. ITS SITE DETAIL SHOWN IS FOR PLAN SHEET REFERENCE PURPOSES ONLY. THE SITE SHALL BE CONSTRUCTED PER SCD ITS-10.11, ITS-50.11, AND ANY OTHER APPLICABLE ITS SERIES SCD'S.
2. UTILITIES SHOWN ARE FOR INFORMATIONAL PURPOSE ONLY, CONTRACTOR SHALL COORDINATE WITH OUPS TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
3. UTILITY LINEWORK SHOWN WITH "QL-D" ARE TRACED BASED ON ITS INVENTORY OR RECORD PLAN INFORMATION.
4. CONDUITS SHOWN ARE HDPE TYPE UNLESS SPECIFIED OTHERWISE IN THE PLAN SHEETS.
5. SHOWN CONDUIT LENGTHS ARE ESTIMATED FOR A TYPICAL ITS SITE INSTALLATION.

ITS SITE DETAIL - DMS, FRONT-ACCESS INSTALLATION

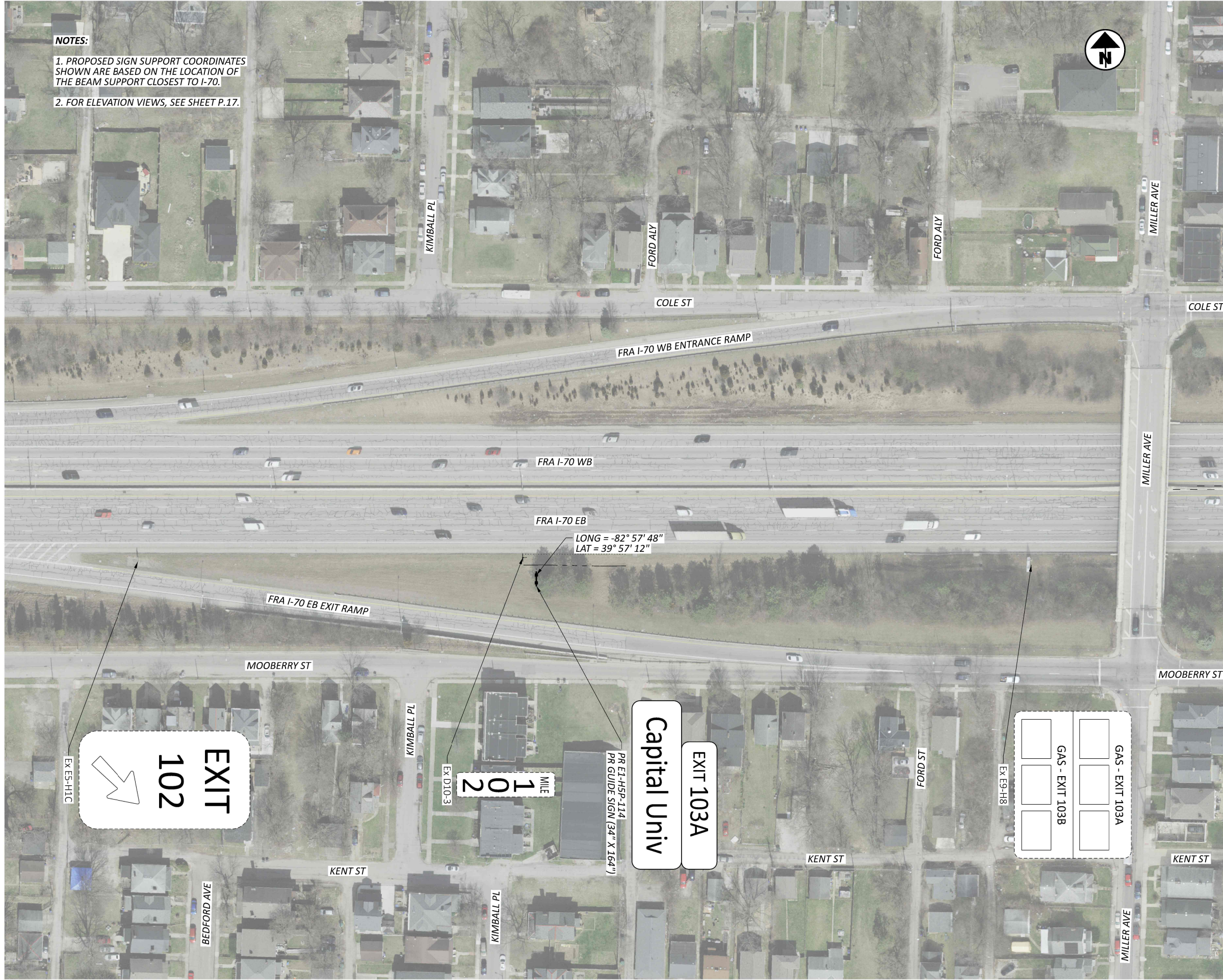


ITS SITE DETAIL - CCTV POLE INSTALLATION

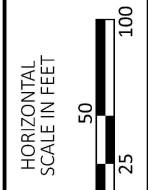


ITS LEGEND

DESIGN AGENCY	
 CRAWFORD, MURPHY & TILLY, INC. 800 SOUTH STREET SUITE 100 COLUMBUS, OH 43205 www.cmtinc.com	
DESIGNER	
GSH	
REVIEWER	
SAK 03/20/26	
PROJECT ID	
122200	
SHEET	TOTAL
P.13	36



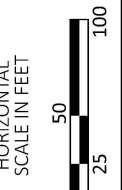
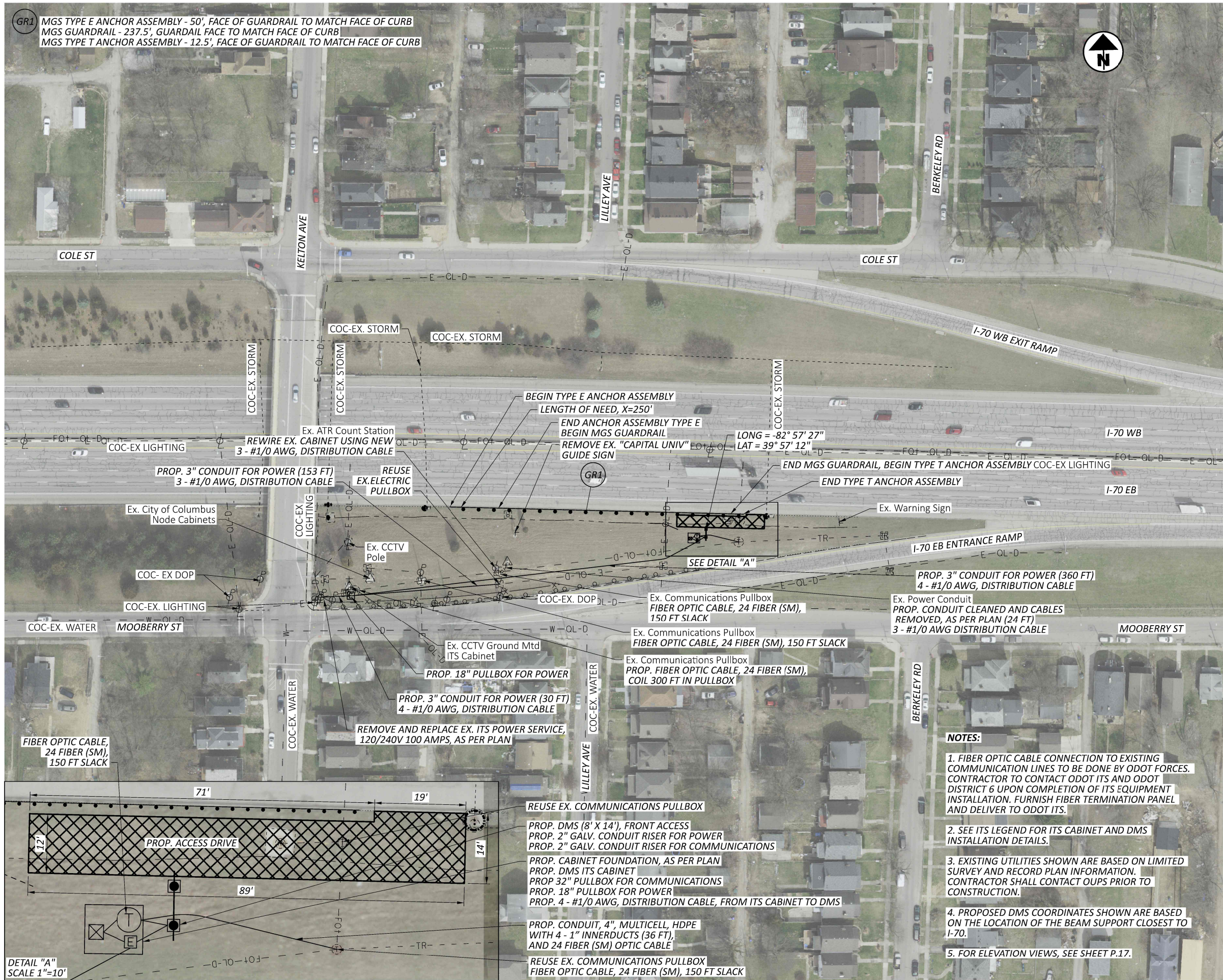
NOTES:
 1. PROPOSED SIGN SUPPORT COORDINATES SHOWN ARE BASED ON THE LOCATION OF THE BEAM SUPPORT CLOSEST TO I-70.
 2. FOR ELEVATION VIEWS, SEE SHEET P.17.



SIGNING PLAN
LOCATION #1: FRA-I70-15.96 (EB)

DESIGN AGENCY
CMT
 CRAWFORD, MURPHY &
 TILLY, INC.
 100 SOUTH STREET
 SUITE 100
 COLUMBUS, OHIO 43225
 www.cmtengr.com

DESIGNER
 GSH
 REVIEWER
 SAK 03/20/26
 PROJECT ID
 122200
 SHEET TOTAL
 P.14 36



ITS PLAN
 LOCATION #2: FRA-I70-16.27 (EB)

DESIGN AGENCY



DESIGNER

GSH

REVIEWER

SAK 03/20/26

PROJECT ID

122200

SHEET TOTAL

P.15 36

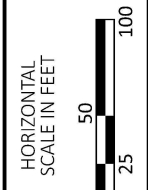


NOTES:

1. EXISTING UTILITIES SHOWN ARE BASED ON LIMITED SURVEY AND RECORD PLAN INFORMATION. CONTRACTOR SHALL CONTACT OUPS PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO MOUNT CAMERA ON THE SIDE OF POLE SUCH THAT IT DOES NOT INTERFERE WITH AND AT LEAST 90 DEGREES AWAY FROM THE EXISTING CCTV CAMERA LOWERING UNIT AS PER STANDARD CONSTRUCTION DRAWING ITS-11.10. THE CAMERA SHALL BE MOUNTED AT A HEIGHT OF 45 FEET FROM THE BOTTOM OF THE SUPPORT.
3. ETHERNET CABLE SHALL BE INSTALLED THROUGH EXISTING POLE AND CONDUIT, AND COME OUT OF A NEW FIELD-DRILLED COUPLING WITH A WEATHERHEAD AND DRIP LOOP TO THE FIXED VIEW CAMERA AS PER STANDARD CONSTRUCTION DRAWING ITS-11.10.

Ex. CCTV Pole
 Ex. Ground Mtd CCTV ITS Cabinet
PROP. CCTV IP-CAMERA SYSTEM, FIXED VIEW
LOOKING SOUTHEAST TOWARDS US-33 SB RAMP
POWER AND COMMUNICATIONS THROUGH EX. ITS CABINET
PROP. ETHERNET CABLE, OUTDOOR-RATED

DETAIL "A"
 SCALE 1"=10'



ITS PLAN
 LOCATION #3: FRA-I70-17.99 (EB)

DESIGN AGENCY	
 CRAWFORD, MURPHY & TILLY, INC. 1505 W. 17TH STREET SUITE 100 COLUMBUS, OHIO 43225 www.cmtinc.com	
DESIGNER	
GSH	
REVIEWER	
SAK 03/20/26	
PROJECT ID	
122200	
SHEET	TOTAL
P.16	36



GR2
 MGS TYPE T ANCHOR ASSEMBLY - 12.5' - FACE OF GUARDRAIL SET 2' OFF OF EDGE OF TREATED SHOULDER
 MGS GUARDRAIL - 212.5' - FACE OF GUARDRAIL SET 2' OFF OF EDGE OF TRAVELED SHOULDER
 MGS TYPE E ANCHOR ASSEMBLY - 50' - FACE OF GUARDRAIL SET 2' OFF OF EDGE OF TREATED SHOULDER

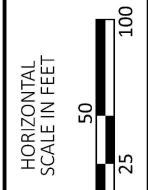
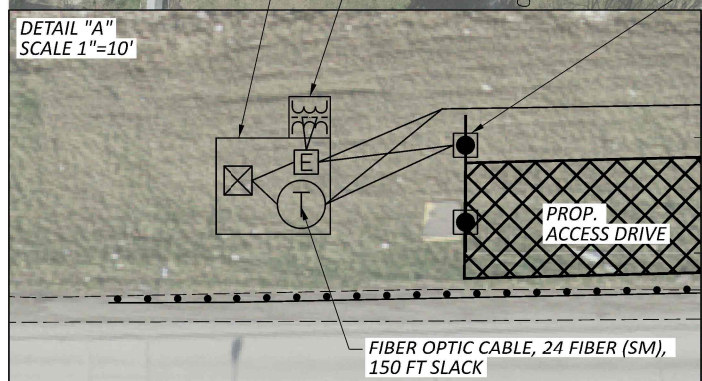
- NOTES:**
1. SEE ITS LEGEND FOR ITS CABINET AND DMS INSTALLATION DETAILS.
 2. EXISTING UTILITIES SHOWN ARE BASED ON LIMITED SURVEY AND RECORD PLAN INFORMATION. CONTRACTOR SHALL CONTACT OUPS PRIOR TO CONSTRUCTION.
 3. PROPOSED DMS COORDINATES SHOWN ARE BASED ON THE LOCATION OF THE BEAM SUPPORT CLOSEST TO I-71.
 4. FOR ELEVATION VIEWS, SEE SHEET P.22.

PROP. CONDUIT, 4", MULTICELL, HDPE WITH 4 - 1" INNERDUCTS (445 FT), AND 24 FIBER (SM) OPTIC CABLE
 PROP. 2" CONDUIT FOR POWER (445 FT), WITH 4 - #4 AWG, DISTRIBUTION CABLE

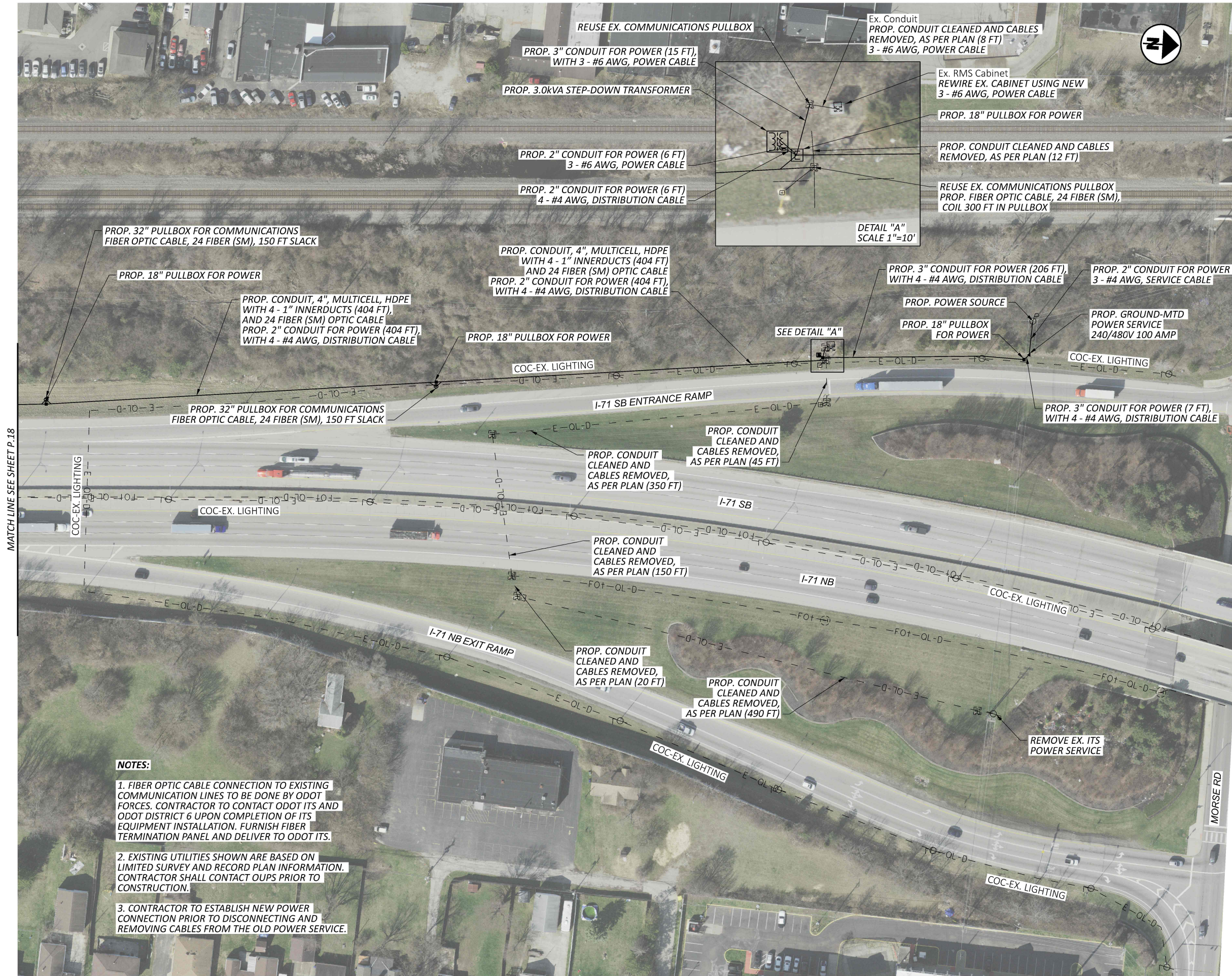
PROP. 32" PULLBOX FOR COMMUNICATIONS FIBER OPTIC CABLE, 24 FIBER (SM), 150 FT SLACK

PROP. 18" PULLBOX FOR POWER

PROP. CONDUIT, 4", MULTICELL, HDPE WITH 4 - 1" INNERDUCTS (430'), AND 24 FIBER (SM) OPTIC CABLE
 PROP. 2" CONDUIT FOR POWER (430'), WITH 4 - #4 AWG, DISTRIBUTION CABLE



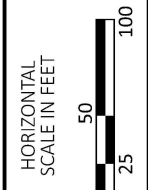
DESIGN AGENCY	
 CRAWFORD, MURPHY & TILLY, INC. 800 W. 10TH STREET, SUITE 100 COLUMBUS, OHIO 43205 PH: 614.291.1100 WWW.CMTENGINEER.COM	
DESIGNER	
GSH	
REVIEWER	
SAK 03/20/26	
PROJECT ID	
122200	
SHEET	TOTAL
P.18	36



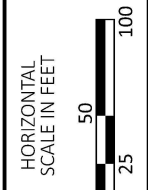
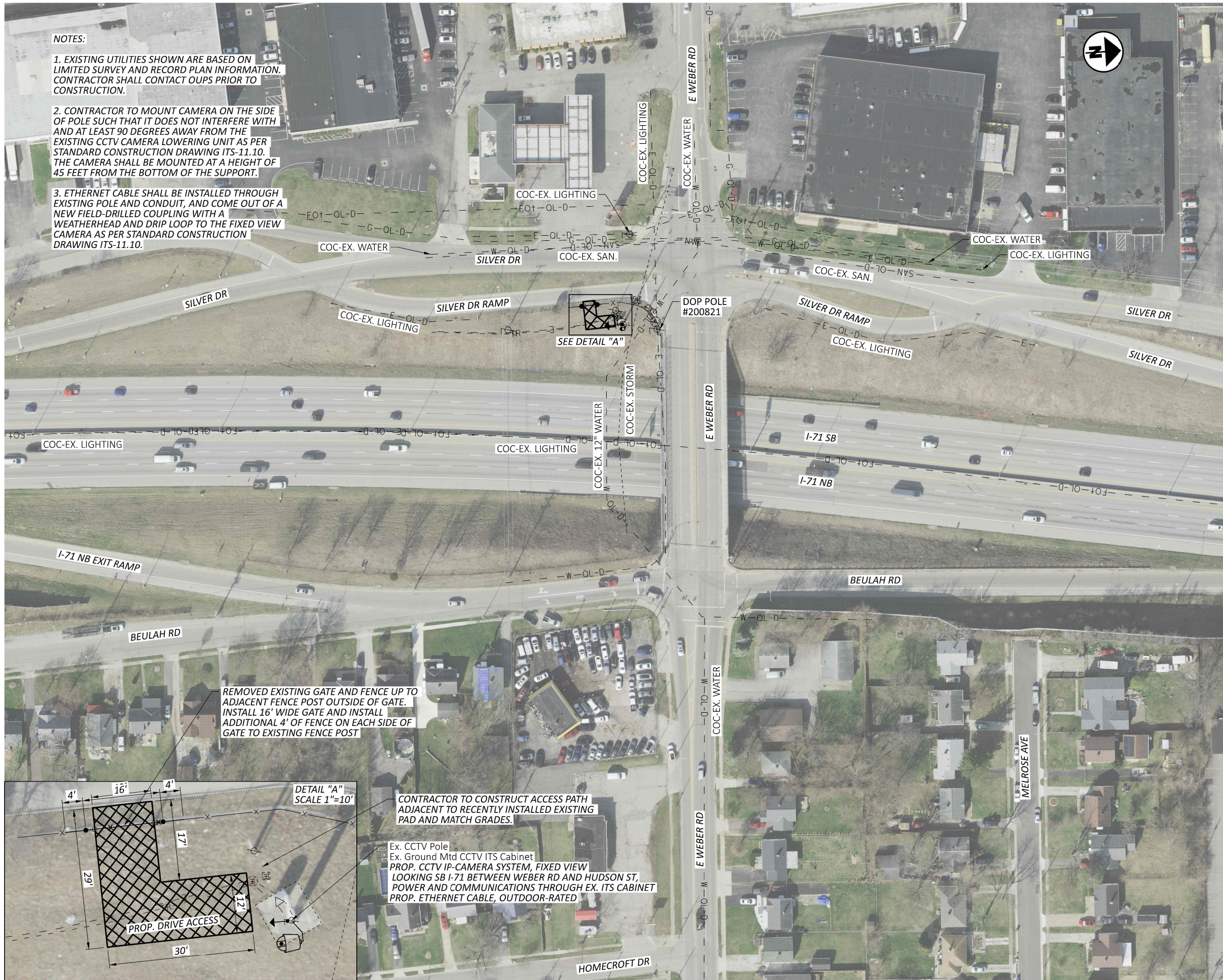
MATCH LINE SEE SHEET P.18

NOTES:

1. FIBER OPTIC CABLE CONNECTION TO EXISTING COMMUNICATION LINES TO BE DONE BY ODOT FORCES. CONTRACTOR TO CONTACT ODOT ITS AND ODOT DISTRICT 6 UPON COMPLETION OF ITS EQUIPMENT INSTALLATION. FURNISH FIBER TERMINATION PANEL AND DELIVER TO ODOT ITS.
2. EXISTING UTILITIES SHOWN ARE BASED ON LIMITED SURVEY AND RECORD PLAN INFORMATION. CONTRACTOR SHALL CONTACT OUPS PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO ESTABLISH NEW POWER CONNECTION PRIOR TO DISCONNECTING AND REMOVING CABLES FROM THE OLD POWER SERVICE.

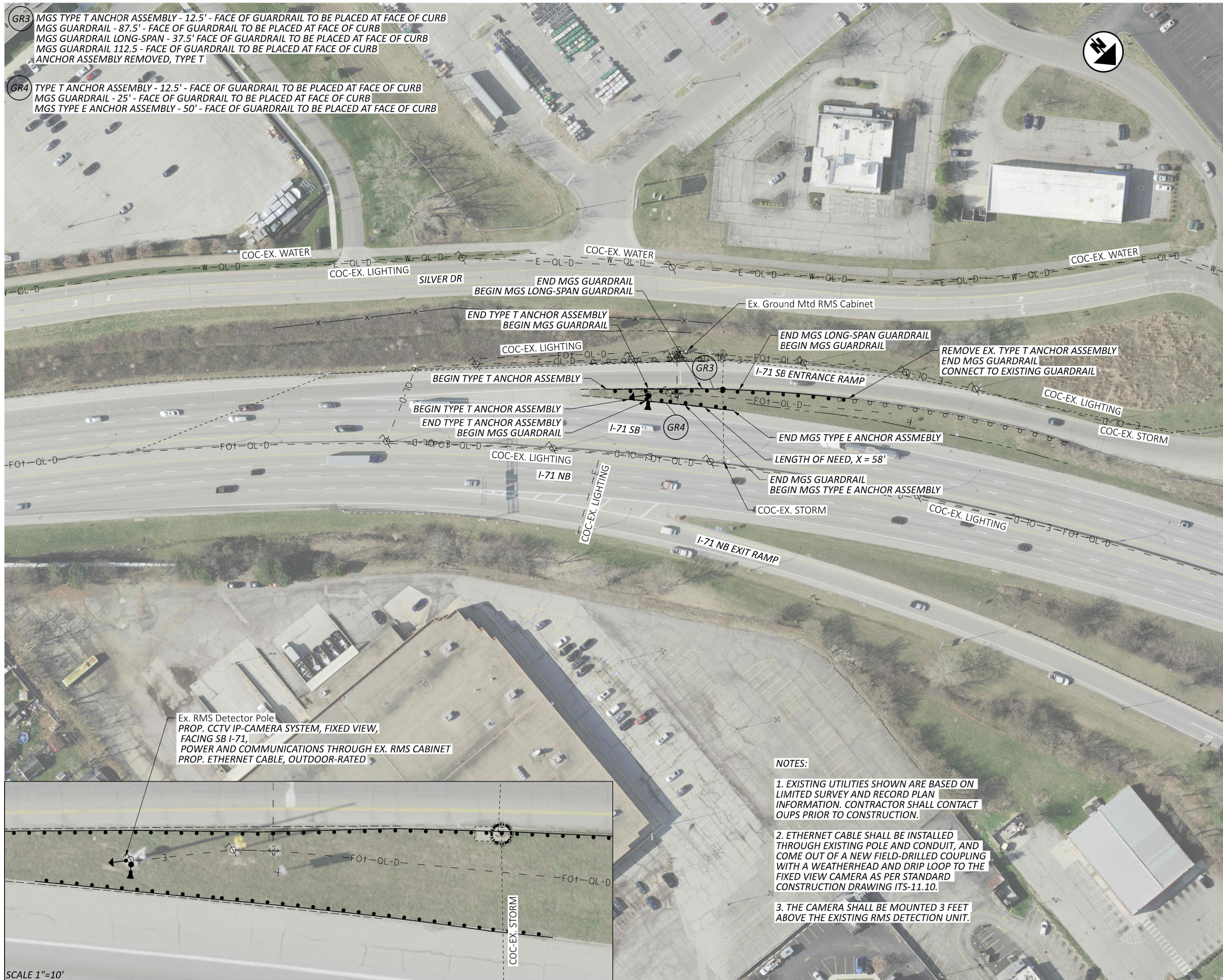


DESIGN AGENCY	
CMT	CRAWFORD, MURPHY & TILLY, INC.
8100 W. STATE STREET, SUITE 100, COLUMBUS, OHIO 43225 www.cmtinc.com	
DESIGNER	
GSH	
REVIEWER	
SAK 03/20/26	
PROJECT ID	
122200	
SHEET	TOTAL
P.19	36



ITS PLAN
LOCATION #5: FRA-I71-21.87 (SB)

DESIGN AGENCY	
 CRAWFORD, MURPHY & TILLY, INC. 10000 WOODBURN STREET SUITE 100 COLUMBUS, OHIO 43225 www.cmtengr.com	
DESIGNER	
GSH	
REVIEWER	
SAK 03/20/26	
PROJECT ID	
122200	
SHEET	TOTAL
P.20	36



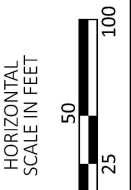
GR3 MGS TYPE T ANCHOR ASSEMBLY - 12.5' - FACE OF GUARDRAIL TO BE PLACED AT FACE OF CURB
 MGS GUARDRAIL - 87.5' - FACE OF GUARDRAIL TO BE PLACED AT FACE OF CURB
 MGS GUARDRAIL LONG-SPAN - 37.5' - FACE OF GUARDRAIL TO BE PLACED AT FACE OF CURB
 MGS GUARDRAIL 112.5' - FACE OF GUARDRAIL TO BE PLACED AT FACE OF CURB
 ANCHOR ASSEMBLY REMOVED, TYPE T

GR4 TYPE T ANCHOR ASSEMBLY - 12.5' - FACE OF GUARDRAIL TO BE PLACED AT FACE OF CURB
 MGS GUARDRAIL - 25' - FACE OF GUARDRAIL TO BE PLACED AT FACE OF CURB
 MGS TYPE E ANCHOR ASSEMBLY - 50' - FACE OF GUARDRAIL TO BE PLACED AT FACE OF CURB

Ex. RMS Detector Pole
 PROP. CCTV IP-CAMERA SYSTEM, FIXED VIEW,
 FACING SB I-71,
 POWER AND COMMUNICATIONS THROUGH EX. RMS CABINET
 PROP. ETHERNET CABLE, OUTDOOR-RATED

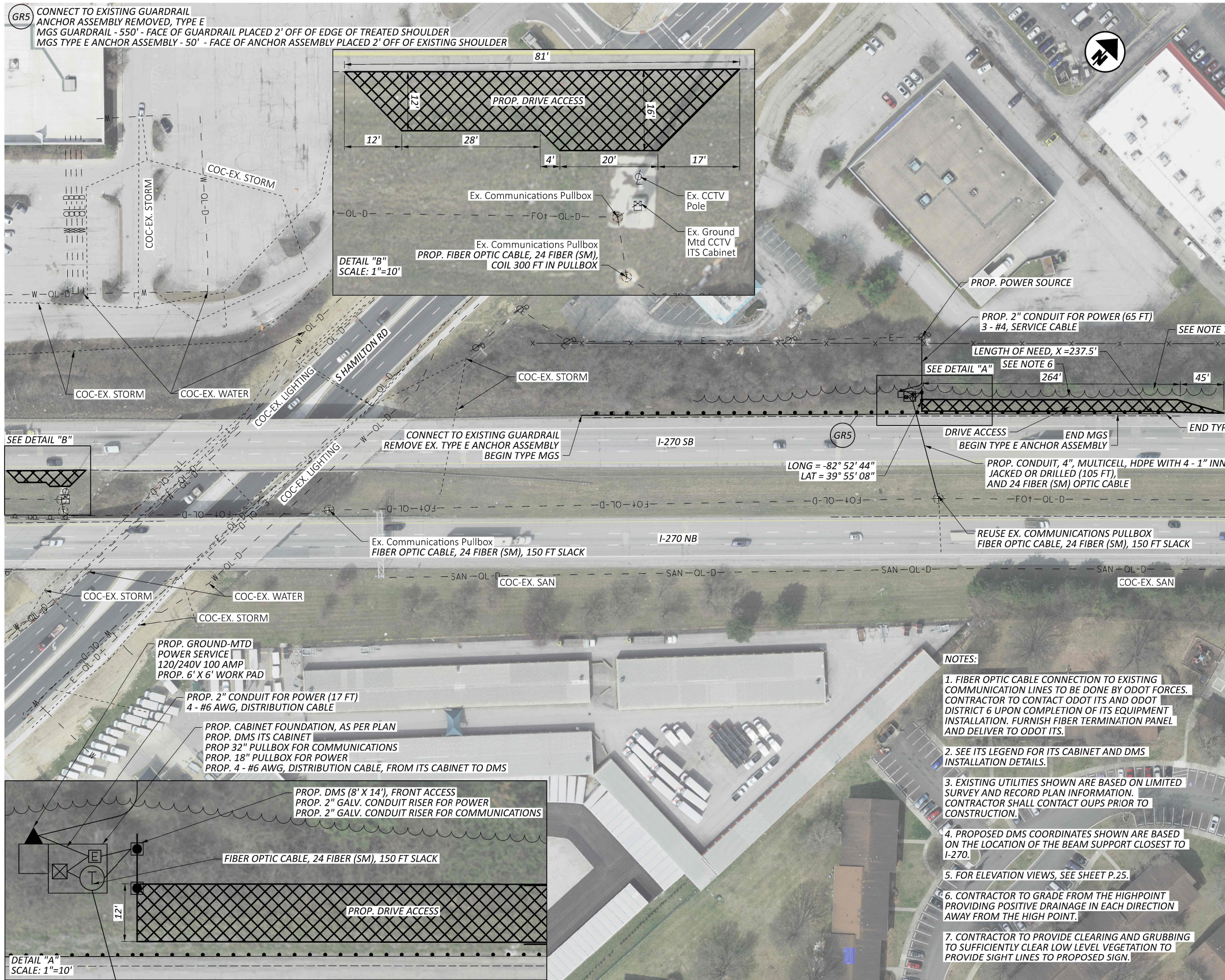
- NOTES:**
- EXISTING UTILITIES SHOWN ARE BASED ON LIMITED SURVEY AND RECORD PLAN INFORMATION. CONTRACTOR SHALL CONTACT OUPS PRIOR TO CONSTRUCTION.
 - ETHERNET CABLE SHALL BE INSTALLED THROUGH EXISTING POLE AND CONDUIT, AND COME OUT OF A NEW FIELD-DRILLED COUPLING WITH A WEATHERHEAD AND DRIP LOOP TO THE FIXED VIEW CAMERA AS PER STANDARD CONSTRUCTION DRAWING ITS-11.10.
 - THE CAMERA SHALL BE MOUNTED 3 FEET ABOVE THE EXISTING RMS DETECTION UNIT.

SCALE 1"=10'



ITS PLAN
 LOCATION #6: FRA-I71-21.09 (SB)

DESIGN AGENCY	
CMT	CRAWFORD, MURPHY & TILLY, INC.
1000 W. 10TH STREET, SUITE 100, COLUMBUS, OHIO 43205	
www.cmtengr.com	
DESIGNER	
GSH	
REVIEWER	
SAK 03/20/26	
PROJECT ID	
122200	
SHEET	TOTAL
P.21	36



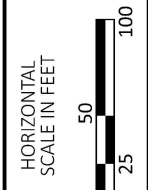
GR5 CONNECT TO EXISTING GUARDRAIL ANCHOR ASSEMBLY REMOVED, TYPE E MGS GUARDRAIL - 550' - FACE OF GUARDRAIL PLACED 2' OFF OF EDGE OF TREATED SHOULDER MGS TYPE E ANCHOR ASSEMBLY - 50' - FACE OF ANCHOR ASSEMBLY PLACED 2' OFF OF EXISTING SHOULDER

DETAIL "B" SCALE: 1"=10'

SEE DETAIL "B"

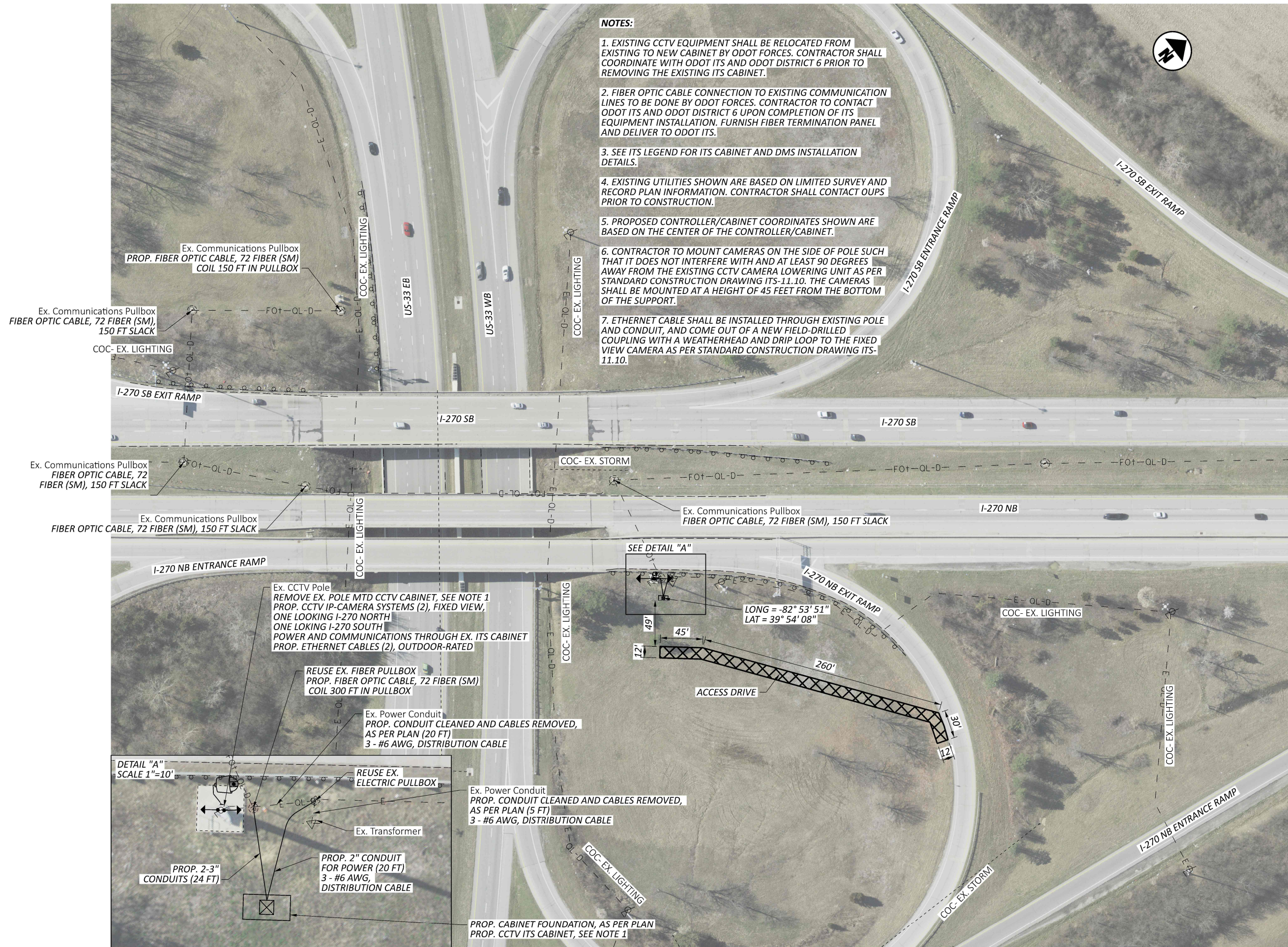
DETAIL "A" SCALE: 1"=10'

- NOTES:**
1. FIBER OPTIC CABLE CONNECTION TO EXISTING COMMUNICATION LINES TO BE DONE BY ODOT FORCES. CONTRACTOR TO CONTACT ODOT ITS AND ODOT DISTRICT 6 UPON COMPLETION OF ITS EQUIPMENT INSTALLATION. FURNISH FIBER TERMINATION PANEL AND DELIVER TO ODOT ITS.
 2. SEE ITS LEGEND FOR ITS CABINET AND DMS INSTALLATION DETAILS.
 3. EXISTING UTILITIES SHOWN ARE BASED ON LIMITED SURVEY AND RECORD PLAN INFORMATION. CONTRACTOR SHALL CONTACT OUPS PRIOR TO CONSTRUCTION.
 4. PROPOSED DMS COORDINATES SHOWN ARE BASED ON THE LOCATION OF THE BEAM SUPPORT CLOSEST TO I-270.
 5. FOR ELEVATION VIEWS, SEE SHEET P.25.
 6. CONTRACTOR TO GRADE FROM THE HIGHPOINT PROVIDING POSITIVE DRAINAGE IN EACH DIRECTION AWAY FROM THE HIGH POINT.
 7. CONTRACTOR TO PROVIDE CLEARING AND GRUBBING TO SUFFICIENTLY CLEAR LOW LEVEL VEGETATION TO PROVIDE SIGHT LINES TO PROPOSED SIGN.

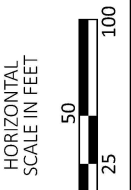


ITS PLAN
 LOCATION #7: FRA-I270-44.57 (SB)

DESIGN AGENCY	
CMT	CRAWFORD, MURPHY & TILLY, INC.
800 W. 5TH STREET, SUITE 100, COLUMBUS, OHIO 43205	
www.cmtengr.com	
DESIGNER	
GSH	
REVIEWER	
SAK 03/20/26	
PROJECT ID	
122200	
SHEET	TOTAL
P.23	36

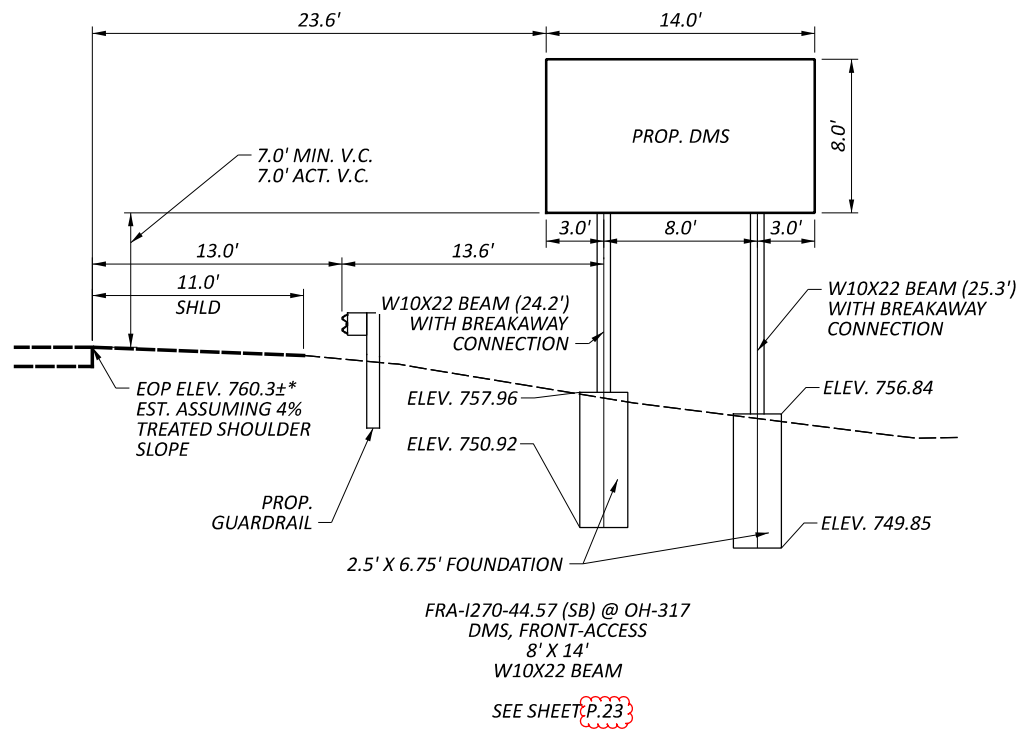


- NOTES:**
- EXISTING CCTV EQUIPMENT SHALL BE RELOCATED FROM EXISTING TO NEW CABINET BY ODOT FORCES. CONTRACTOR SHALL COORDINATE WITH ODOT ITS AND ODOT DISTRICT 6 PRIOR TO REMOVING THE EXISTING ITS CABINET.
 - FIBER OPTIC CABLE CONNECTION TO EXISTING COMMUNICATION LINES TO BE DONE BY ODOT FORCES. CONTRACTOR TO CONTACT ODOT ITS AND ODOT DISTRICT 6 UPON COMPLETION OF ITS EQUIPMENT INSTALLATION. FURNISH FIBER TERMINATION PANEL AND DELIVER TO ODOT ITS.
 - SEE ITS LEGEND FOR ITS CABINET AND DMS INSTALLATION DETAILS.
 - EXISTING UTILITIES SHOWN ARE BASED ON LIMITED SURVEY AND RECORD PLAN INFORMATION. CONTRACTOR SHALL CONTACT OUPS PRIOR TO CONSTRUCTION.
 - PROPOSED CONTROLLER/CABINET COORDINATES SHOWN ARE BASED ON THE CENTER OF THE CONTROLLER/CABINET.
 - CONTRACTOR TO MOUNT CAMERAS ON THE SIDE OF POLE SUCH THAT IT DOES NOT INTERFERE WITH AND AT LEAST 90 DEGREES AWAY FROM THE EXISTING CCTV CAMERA LOWERING UNIT AS PER STANDARD CONSTRUCTION DRAWING ITS-11.10. THE CAMERAS SHALL BE MOUNTED AT A HEIGHT OF 45 FEET FROM THE BOTTOM OF THE SUPPORT.
 - ETHERNET CABLE SHALL BE INSTALLED THROUGH EXISTING POLE AND CONDUIT, AND COME OUT OF A NEW FIELD-DRILLED COUPLING WITH A WEATHERHEAD AND DRIP LOOP TO THE FIXED VIEW CAMERA AS PER STANDARD CONSTRUCTION DRAWING ITS-11.10.

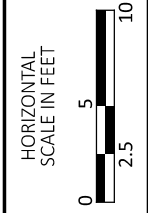


ITS PLAN
 LOCATION #8: FRA-I270-46.09 (NB)

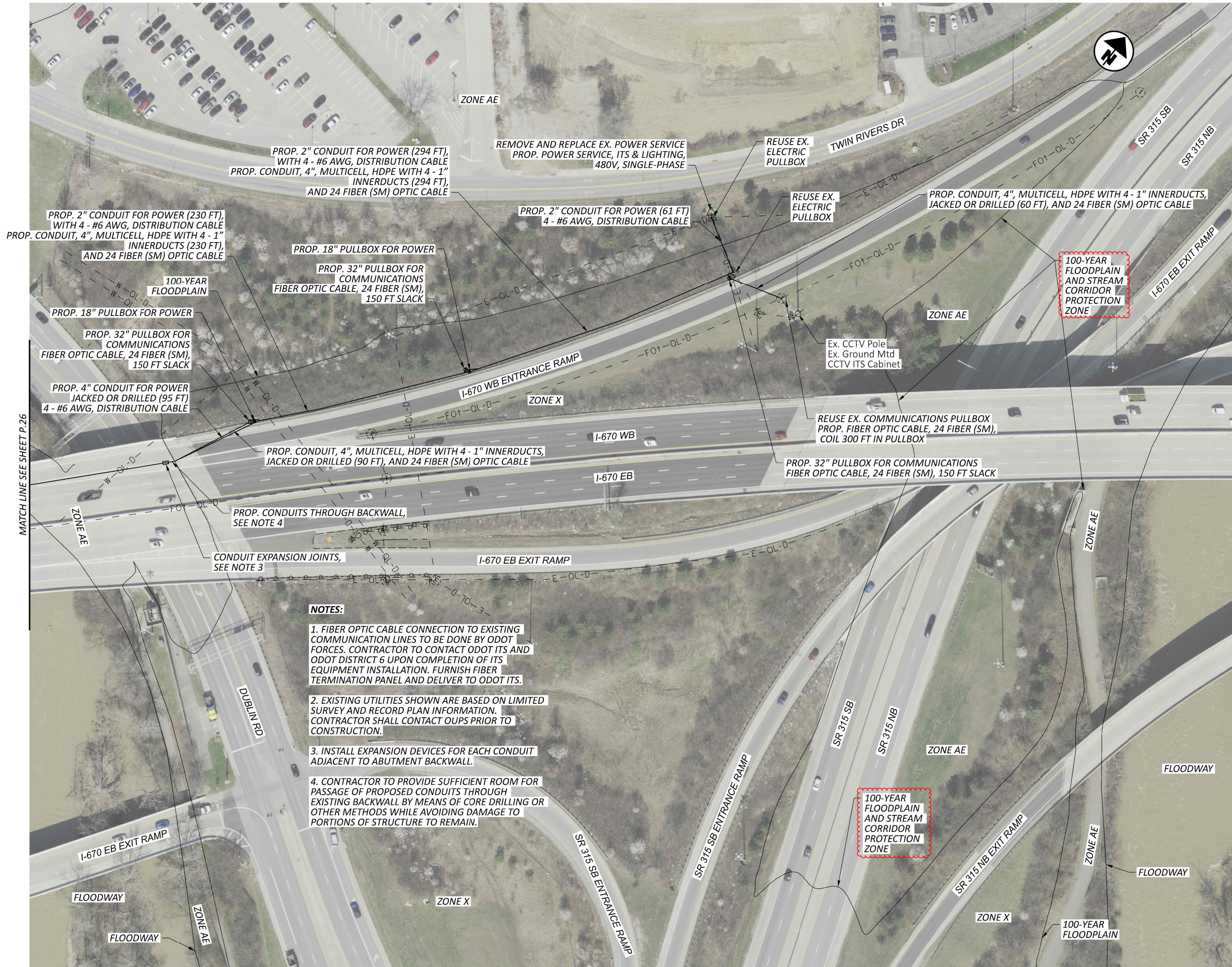
DESIGN AGENCY	
 CRAWFORD, MURPHY & TILLY, INC. 8005 WOODS STREET SUITE 100 COLUMBUS, OHIO 43225 www.cmtinc.com	
DESIGNER	
GSH	
REVIEWER	
SAK 03/20/26	
PROJECT ID	
122200	
SHEET	TOTAL
P.24	36



DMS AND SIGN DETAIL
ELEVATION VIEW

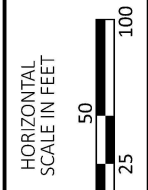


DESIGN AGENCY	
 CRAWFORD, MURPHY & TILLY, INC. 1000 FOURTH STREET SUITE 100 COLUMBUS, OHIO 43225 www.cmtinc.com	
DESIGNER	
GSH	
REVIEWER	
SAK	03/20/26
PROJECT ID	
122200	
SHEET	TOTAL
P.25	36

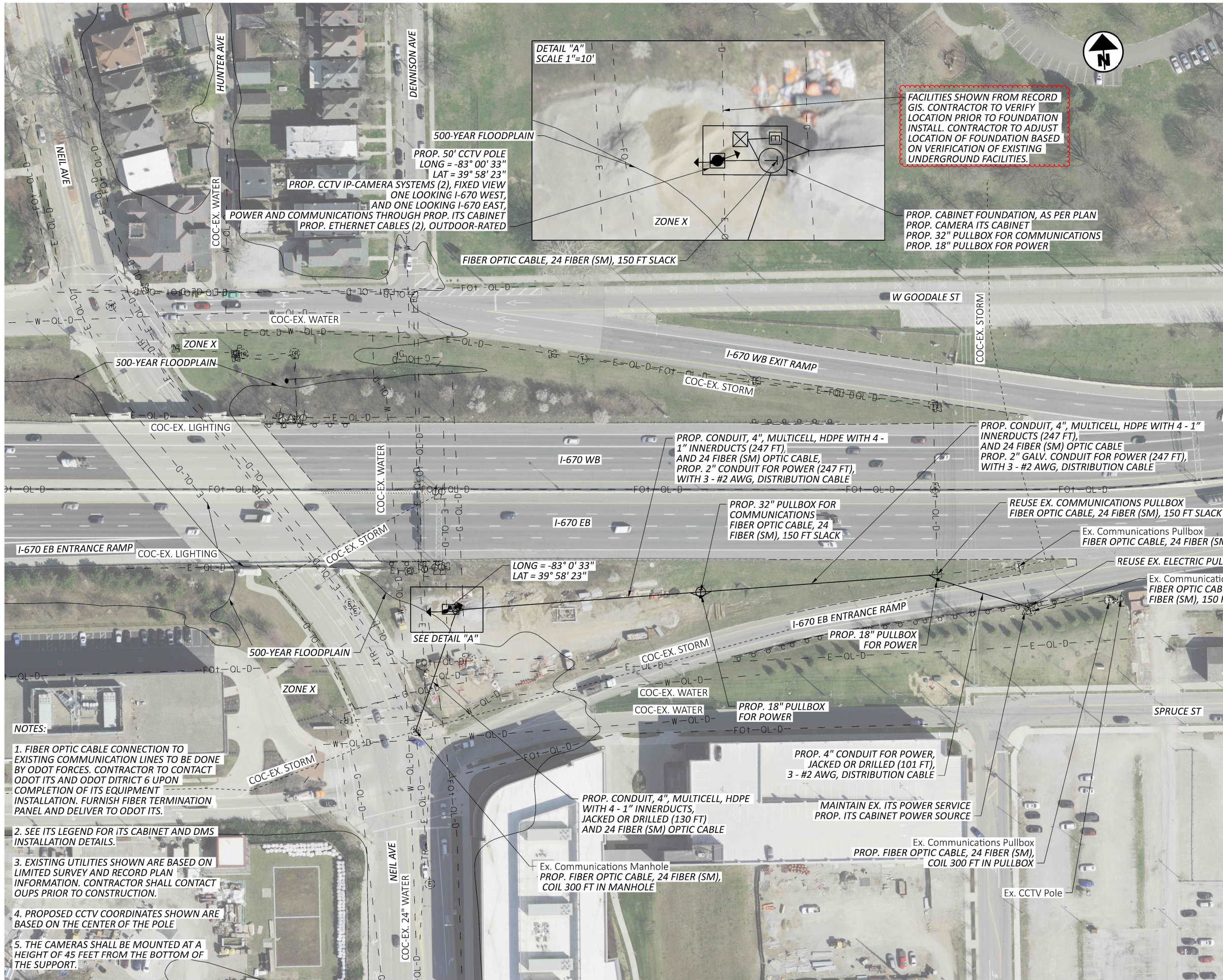


MATCH LINE SEE SHEET P.26

- NOTES:**
1. FIBER OPTIC CABLE CONNECTION TO EXISTING COMMUNICATION LINES TO BE DONE BY ODOT FORCES. CONTRACTOR TO CONTACT ODOT ITS AND ODOT DISTRICT 6 UPON COMPLETION OF ITS EQUIPMENT INSTALLATION. FURNISH FIBER TERMINATION PANEL AND DELIVER TO ODOT ITS.
 2. EXISTING UTILITIES SHOWN ARE BASED ON LIMITED SURVEY AND RECORD PLAN INFORMATION. CONTRACTOR SHALL CONTACT OUPS PRIOR TO CONSTRUCTION.
 3. INSTALL EXPANSION DEVICES FOR EACH CONDUIT ADJACENT TO ABUTMENT BACKWALL.
 4. CONTRACTOR TO PROVIDE SUFFICIENT ROOM FOR PASSAGE OF PROPOSED CONDUITS THROUGH EXISTING BACKWALL BY MEANS OF CORE DRILLING OR OTHER METHODS WHILE AVOIDING DAMAGE TO PORTIONS OF STRUCTURE TO REMAIN.

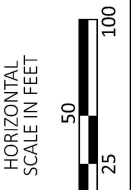


DESIGN AGENCY	CMT CRAWFORD, MURPHY & TILLY, INC. 100 W. 4TH STREET SUITE 100 COLUMBUS, OHIO 43205 www.cmtinc.com
DESIGNER	GSH
REVIEWER	SAK 03/20/26
PROJECT ID	122200
SHEET TOTAL	P.27 36



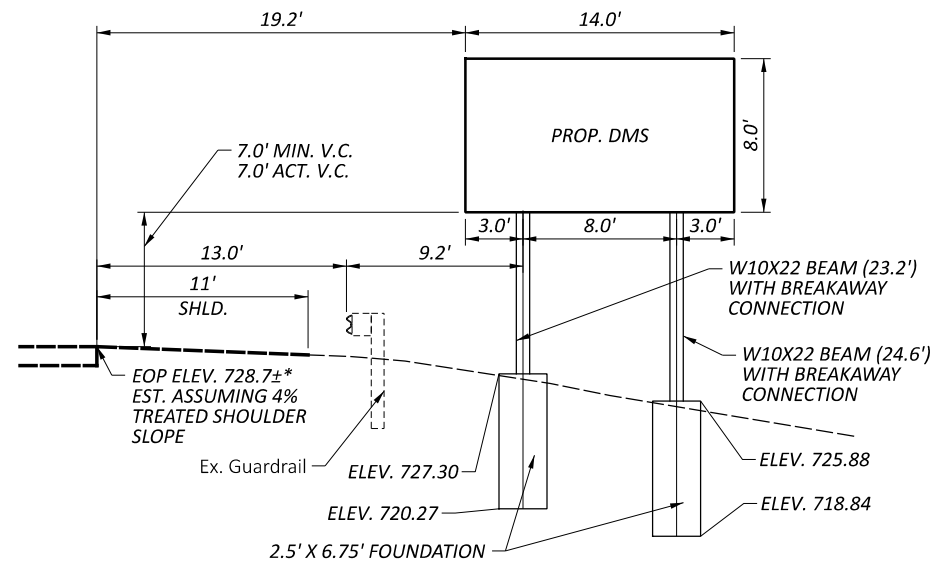
NOTES:

1. FIBER OPTIC CABLE CONNECTION TO EXISTING COMMUNICATION LINES TO BE DONE BY ODOT FORCES. CONTRACTOR TO CONTACT ODOT ITS AND ODOT DISTRICT 6 UPON COMPLETION OF ITS EQUIPMENT INSTALLATION. FURNISH FIBER TERMINATION PANEL AND DELIVER TO ODOT ITS.
2. SEE ITS LEGEND FOR ITS CABINET AND DMS INSTALLATION DETAILS.
3. EXISTING UTILITIES SHOWN ARE BASED ON LIMITED SURVEY AND RECORD PLAN INFORMATION. CONTRACTOR SHALL CONTACT OUPS PRIOR TO CONSTRUCTION.
4. PROPOSED CCTV COORDINATES SHOWN ARE BASED ON THE CENTER OF THE POLE
5. THE CAMERAS SHALL BE MOUNTED AT A HEIGHT OF 45 FEET FROM THE BOTTOM OF THE SUPPORT.



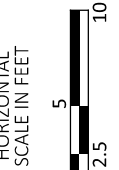
**ITS PLAN
LOCATION #10: FRA-I670-3.37 (EB)**

DESIGN AGENCY	
 CRAWFORD, MURPHY & TILLY, INC. 100 W. 10TH STREET SUITE 100 COLUMBUS, OH 43225 www.cmtinc.com	
DESIGNER	
GSH	
REVIEWER	
SAK 03/20/26	
PROJECT ID	
122200	
SHEET	TOTAL
P.28	36



FRA-I670-2.28 (EB) @ SCIOTO RIVER
DMS, FRONT-ACCESS
8' X 14'
W10X22 BEAM
SEE SHEET P.26

DMS AND SIGN DETAIL
ELEVATION VIEW



DESIGN AGENCY
CMT
 CRAWFORD, MURPHY &
 TILLY, INC.
 10000 STATE STREET
 SUITE 100
 COLUMBUS, OH 43228
 www.cmtinc.com

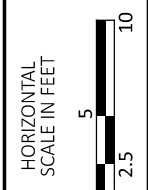
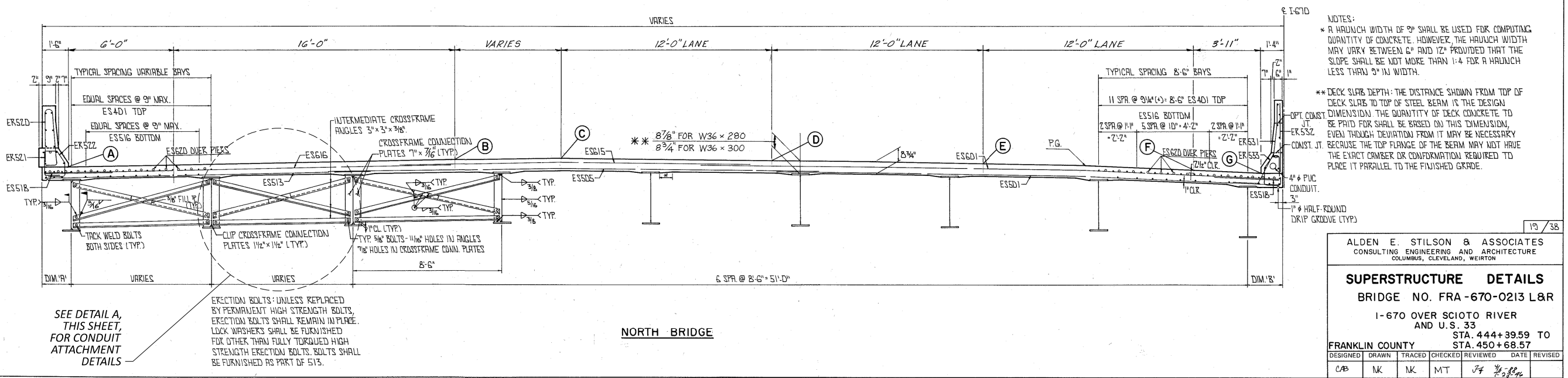
DESIGNER
GSH

REVIEWER
SAK 03/20/26

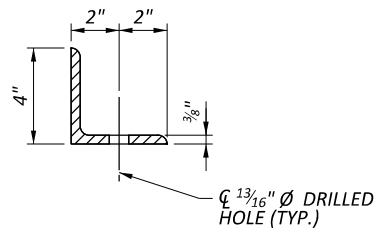
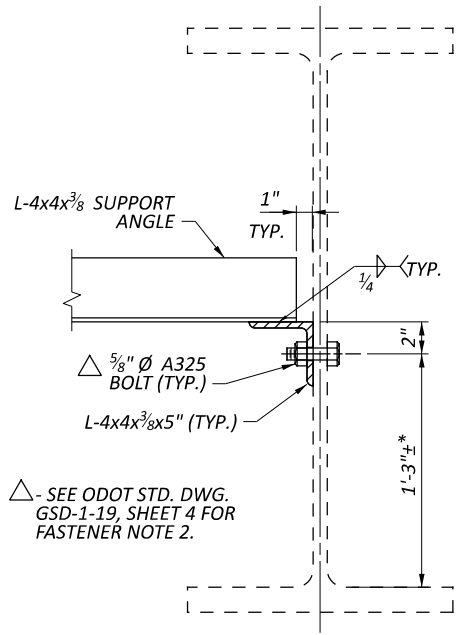
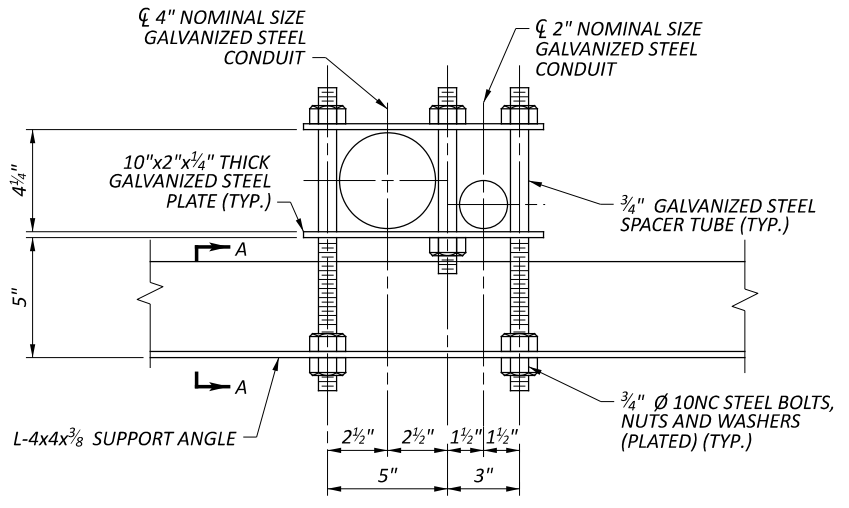
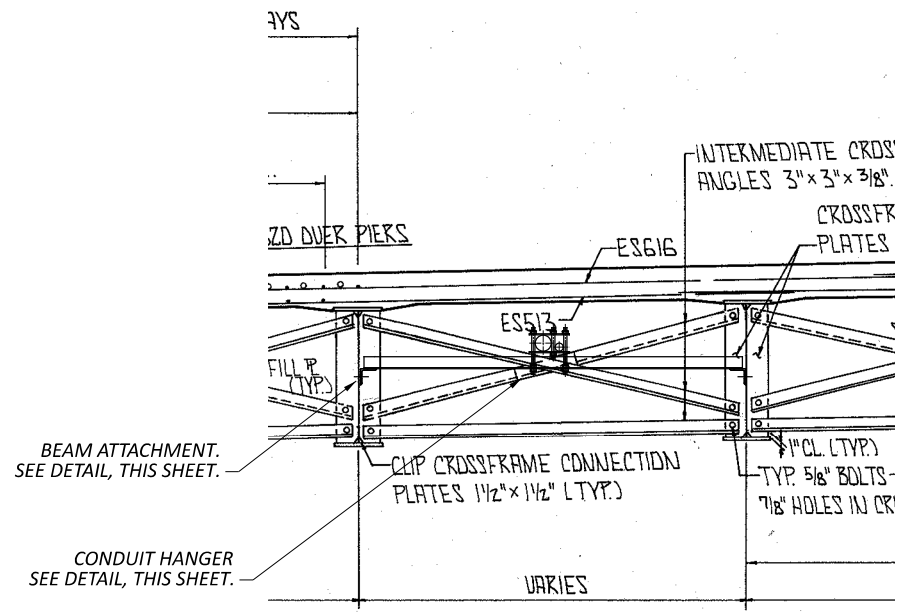
PROJECT ID
122200

SHEET TOTAL
P.29 36

FRA VAR DMS & QWS
 MODEL SHEET PAPER SIZE: 17x11 (in.) DATE: 6/18/2026 TIME: 2:43:11 PM PLTDRV: OHDOT_PDF.plt USER: WORKSPACE: OHDOT_Pen.tbl DESIGNER: 122200_24007584-00_DMSQWSDesign PRODUCT: OpenRoadsDesigner: 10.12.03.2
 L:\ODOT\24007584-00_DMSQWSDesign\122200\00-Engineering\Structures\Sheets\122200_SW001.dgn



EXISTING BRIDGE SECTION



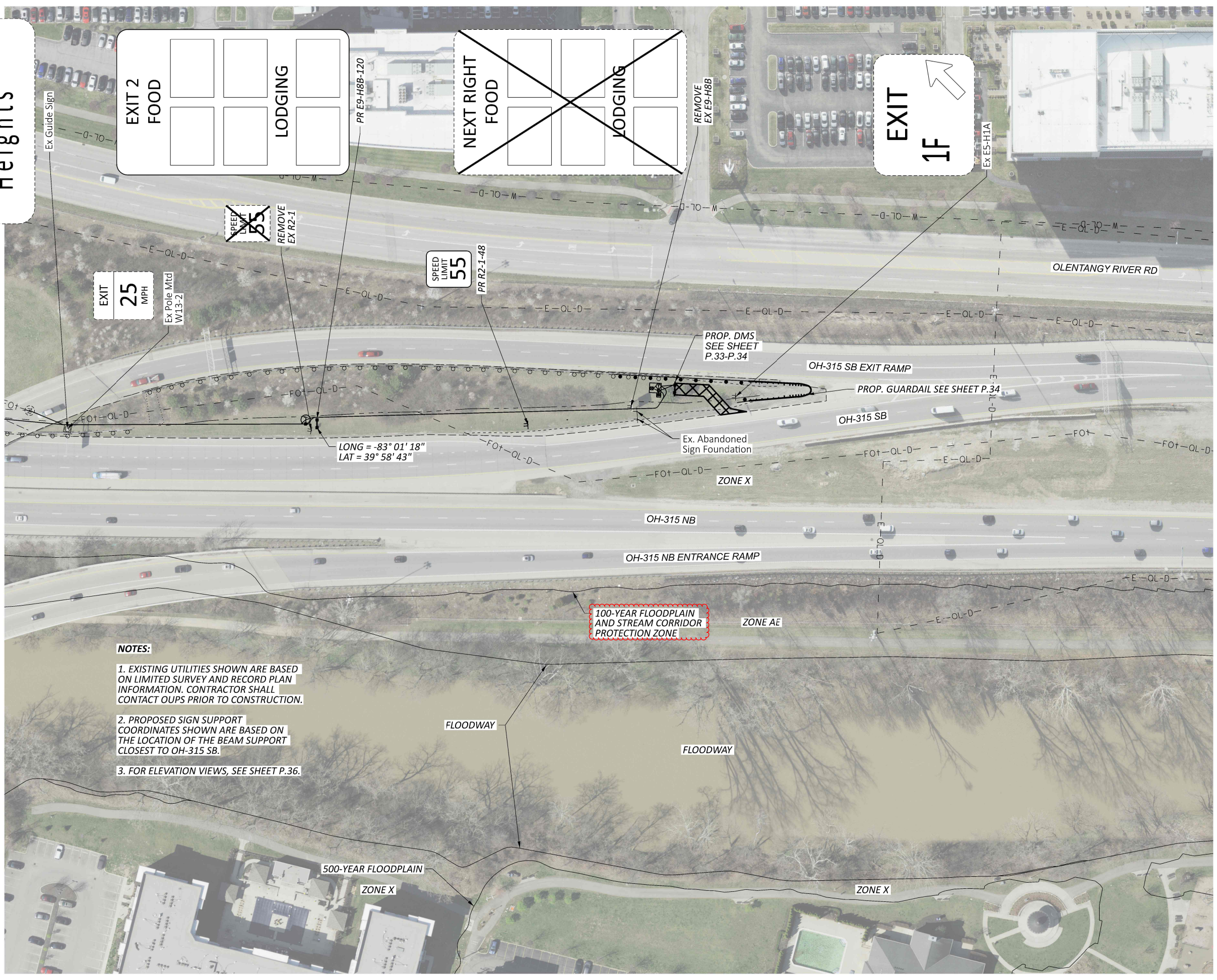
* ADJUST VERTICAL DIMENSION TO MINIMIZE GAP ABOVE EXISTING CROSSFRAM ANGLES

- NOTES:**
1. CONDUIT SUPPORT ASSEMBLIES SHALL BE INSTALLED BETWEEN EXISTING BEAM 2 AND BEAM 3 AT MID POINT BETWEEN EXISTING CROSSFRAME SPACING WITH EXPANSION JOINTS AT BOTH REAR AND FORWARD ABUTMENTS.
 2. ALL CONDUIT HANGER ASSEMBLIES, EXPANSION JOINTS, MOUNTING HARDWARE AND LABOR REQUIRED FOR INSTALLATION SHALL BE INCLUDED WITH ITEM 625 - CONDUIT, 2", 725.04, AS PER PLAN.
 3. ALL SUPPORT ANGLES AND BEAM ATTACHMENT ANGLES SHALL BE ASTM A709 GR. 50W (A588) TO MATCH EXISTING BEAMS.
 4. ALL SUPPORT ANGLES, BEAM ATTACHMENTS, ATTACHMENT HARDWARE AND LABOR REQUIRED FOR INSTALLATION SHALL BE INCLUDED WITH ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF.

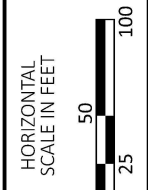
CONDUIT ATTACHMENT DETAILS
 FRA-1670-2.28 (EB)

DESIGN AGENCY	
 CRAWFORD, MURPHY & TILLY, INC. 8100 WOODBURN STREET, SUITE 100 COLUMBUS, OHIO 43235 PH: 614.444.3333 WWW.CMTINC.COM	
DESIGNER	
MNM	
REVIEWER	
DRC 03/20/26	
PROJECT ID	
122200	
SHEET	TOTAL
P.30	36

Goodale St
Grandview
Heights



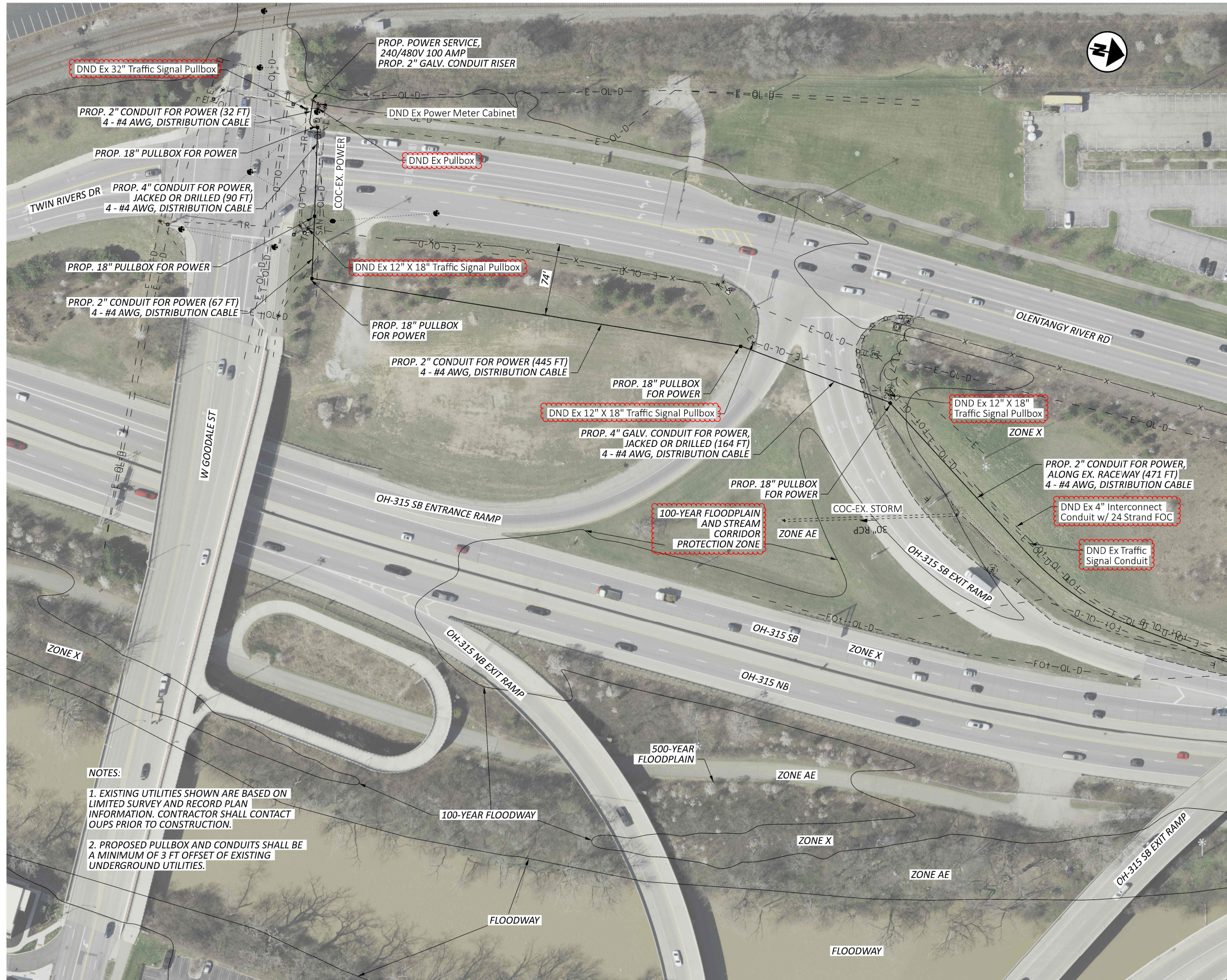
- NOTES:**
1. EXISTING UTILITIES SHOWN ARE BASED ON LIMITED SURVEY AND RECORD PLAN INFORMATION. CONTRACTOR SHALL CONTACT OUPS PRIOR TO CONSTRUCTION.
 2. PROPOSED SIGN SUPPORT COORDINATES SHOWN ARE BASED ON THE LOCATION OF THE BEAM SUPPORT CLOSEST TO OH-315 SB.
 3. FOR ELEVATION VIEWS, SEE SHEET P.36.



SIGNING PLAN
LOCATION #11: FRA-OH315-2.35 (SB)

DESIGN AGENCY
CMT
CRAWFORD, MURPHY &
TILLY, INC.
100 W. 15th Street
Suite 100
Columbus, Ohio 43225
www.cmtinc.com

DESIGNER
GSH
REVIEWER
SAK 03/20/26
PROJECT ID
122200
SHEET TOTAL
P.32 36



NOTES:

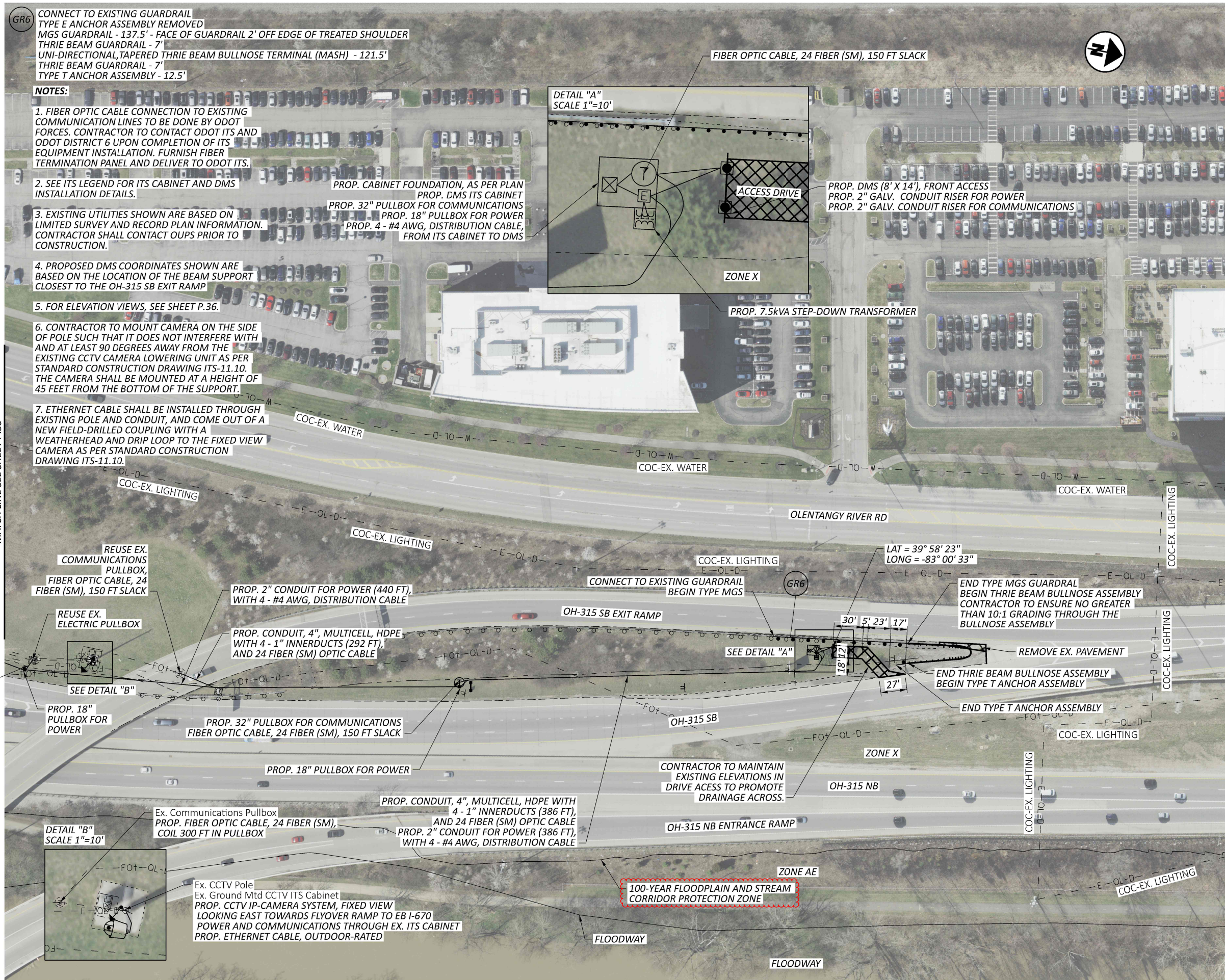
1. EXISTING UTILITIES SHOWN ARE BASED ON LIMITED SURVEY AND RECORD PLAN INFORMATION. CONTRACTOR SHALL CONTACT OUPS PRIOR TO CONSTRUCTION.
2. PROPOSED PULLBOX AND CONDUITS SHALL BE A MINIMUM OF 3 FT OFFSET OF EXISTING UNDERGROUND UTILITIES.



DESIGN AGENCY
CMT
 CRAWFORD, MURPHY &
 TILLY, INC.
 100 W. 4TH STREET
 SUITE 100
 COLUMBUS, OH 43215
 www.cmtinc.com

DESIGNER
 GSH
 REVIEWER
 SAK 03/20/26
 PROJECT ID
 122200
 SHEET TOTAL
 P.33 36

MATCH LINE SEE SHEET P.34



GR6

CONNECT TO EXISTING GUARDRAIL
 TYPE E ANCHOR ASSEMBLY REMOVED
 MGS GUARDRAIL - 137.5' - FACE OF GUARDRAIL 2' OFF EDGE OF TREATED SHOULDER
 THRIE BEAM GUARDRAIL - 7'
 UNI-DIRECTIONAL, TAPERED THRIE BEAM BULLNOSE TERMINAL (MASH) - 121.5'
 THRIE BEAM GUARDRAIL - 7'
 TYPE T ANCHOR ASSEMBLY - 12.5'

NOTES:

1. FIBER OPTIC CABLE CONNECTION TO EXISTING COMMUNICATION LINES TO BE DONE BY ODOT FORCES. CONTRACTOR TO CONTACT ODOT ITS AND ODOT DISTRICT 6 UPON COMPLETION OF ITS EQUIPMENT INSTALLATION. FURNISH FIBER TERMINATION PANEL AND DELIVER TO ODOT ITS.
2. SEE ITS LEGEND FOR ITS CABINET AND DMS INSTALLATION DETAILS.
3. EXISTING UTILITIES SHOWN ARE BASED ON LIMITED SURVEY AND RECORD PLAN INFORMATION. CONTRACTOR SHALL CONTACT OUPS PRIOR TO CONSTRUCTION.
4. PROPOSED DMS COORDINATES SHOWN ARE BASED ON THE LOCATION OF THE BEAM SUPPORT CLOSEST TO THE OH-315 SB EXIT RAMP
5. FOR ELEVATION VIEWS, SEE SHEET P.36.
6. CONTRACTOR TO MOUNT CAMERA ON THE SIDE OF POLE SUCH THAT IT DOES NOT INTERFERE WITH AND AT LEAST 90 DEGREES AWAY FROM THE EXISTING CCTV CAMERA LOWERING UNIT AS PER STANDARD CONSTRUCTION DRAWING ITS-11.10. THE CAMERA SHALL BE MOUNTED AT A HEIGHT OF 45 FEET FROM THE BOTTOM OF THE SUPPORT.
7. ETHERNET CABLE SHALL BE INSTALLED THROUGH EXISTING POLE AND CONDUIT, AND COME OUT OF A NEW FIELD-DRILLED COUPLING WITH A WEATHERHEAD AND DRIP LOOP TO THE FIXED VIEW CAMERA AS PER STANDARD CONSTRUCTION DRAWING ITS-11.10.

PROP. CABINET FOUNDATION, AS PER PLAN
 PROP. DMS ITS CABINET
 PROP. 32" PULLBOX FOR COMMUNICATIONS
 PROP. 18" PULLBOX FOR POWER
 PROP. 4 - #4 AWG, DISTRIBUTION CABLE, FROM ITS CABINET TO DMS

DETAIL "A"
 SCALE 1"=10'

FIBER OPTIC CABLE, 24 FIBER (SM), 150 FT SLACK

ZONE X

PROP. 7.5kVA STEP-DOWN TRANSFORMER

PROP. DMS (8' X 14'), FRONT ACCESS
 PROP. 2" GALV. CONDUIT RISER FOR POWER
 PROP. 2" GALV. CONDUIT RISER FOR COMMUNICATIONS

MATCH LINE SEE SHEET P.33

REUSE EX. COMMUNICATIONS PULLBOX, FIBER OPTIC CABLE, 24 FIBER (SM), 150 FT SLACK

REUSE EX. ELECTRIC PULLBOX

PROP. 3" CONDUIT FOR FUTURE USE (12 FT)

SEE DETAIL "B"

PROP. 18" PULLBOX FOR POWER

PROP. 2" CONDUIT FOR POWER (440 FT), WITH 4 - #4 AWG, DISTRIBUTION CABLE

PROP. CONDUIT, 4", MULTICELL, HDPE WITH 4 - 1" INNERDUCTS (292 FT), AND 24 FIBER (SM) OPTIC CABLE

PROP. 32" PULLBOX FOR COMMUNICATIONS FIBER OPTIC CABLE, 24 FIBER (SM), 150 FT SLACK

PROP. 18" PULLBOX FOR POWER

PROP. CONDUIT, 4", MULTICELL, HDPE WITH 4 - 1" INNERDUCTS (386 FT), AND 24 FIBER (SM) OPTIC CABLE
 PROP. 2" CONDUIT FOR POWER (386 FT), WITH 4 - #4 AWG, DISTRIBUTION CABLE

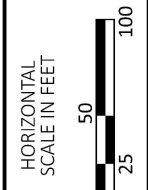
DETAIL "B"
 SCALE 1"=10'

Ex. CCTV Pole
 Ex. Ground Mtd CCTV ITS Cabinet
 PROP. CCTV IP-CAMERA SYSTEM, FIXED VIEW LOOKING EAST TOWARDS FLYOVER RAMP TO EB I-670
 POWER AND COMMUNICATIONS THROUGH EX. ITS CABINET
 PROP. ETHERNET CABLE, OUTDOOR-RATED

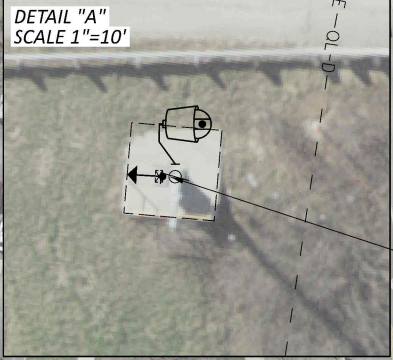
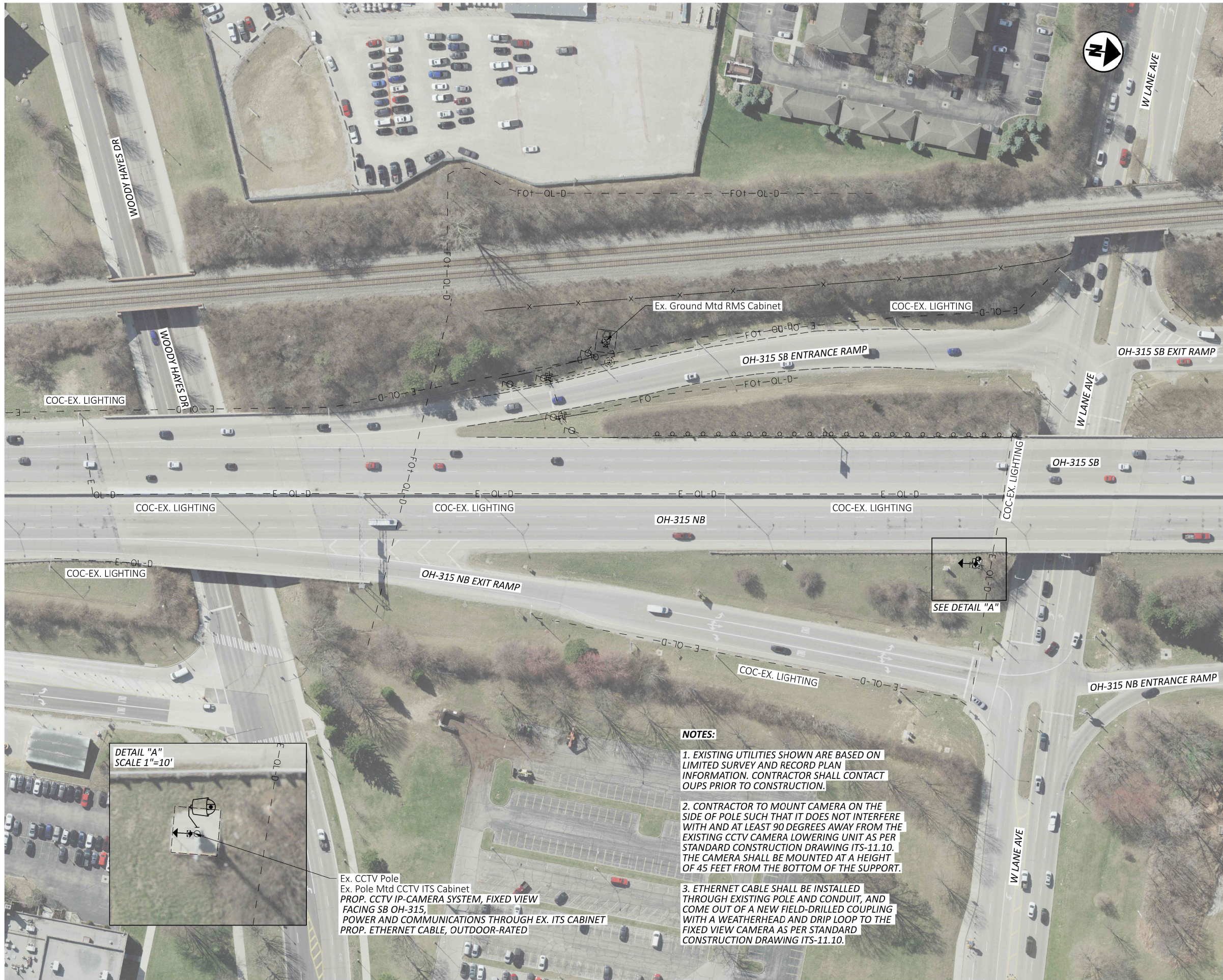
100-YEAR FLOODPLAIN AND STREAM CORRIDOR PROTECTION ZONE

FLOODWAY

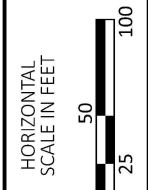
FLOODWAY



DESIGN AGENCY	CMT CRAWFORD, MURPHY & TILLY, INC. 100 W. 5TH STREET SUITE 100 COLUMBUS, OHIO 43205 www.cmtengr.com
DESIGNER	GSH
REVIEWER	SAK
PROJECT ID	122200
SHEET	P.34
TOTAL	36



- NOTES:**
1. EXISTING UTILITIES SHOWN ARE BASED ON LIMITED SURVEY AND RECORD PLAN INFORMATION. CONTRACTOR SHALL CONTACT OUPS PRIOR TO CONSTRUCTION.
 2. CONTRACTOR TO MOUNT CAMERA ON THE SIDE OF POLE SUCH THAT IT DOES NOT INTERFERE WITH AND AT LEAST 90 DEGREES AWAY FROM THE EXISTING CCTV CAMERA LOWERING UNIT AS PER STANDARD CONSTRUCTION DRAWING ITS-11.10. THE CAMERA SHALL BE MOUNTED AT A HEIGHT OF 45 FEET FROM THE BOTTOM OF THE SUPPORT.
 3. ETHERNET CABLE SHALL BE INSTALLED THROUGH EXISTING POLE AND CONDUIT, AND COME OUT OF A NEW FIELD-DRILLED COUPLING WITH A WEATHERHEAD AND DRIP LOOP TO THE FIXED VIEW CAMERA AS PER STANDARD CONSTRUCTION DRAWING ITS-11.10.



ITS PLAN
 LOCATION #13: FRA-OH315-4.28 (SB)

DESIGN AGENCY	
CMT	CRAWFORD, MURPHY & TILLY, INC.
1505 W. 14TH STREET, SUITE 100, COLUMBUS, OHIO 43225 www.cmtengr.com	
DESIGNER	
GSH	
REVIEWER	
SAK	03/20/26
PROJECT ID	
122200	
SHEET	TOTAL
P.35	36

