SHEET

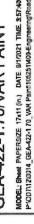
TITLE

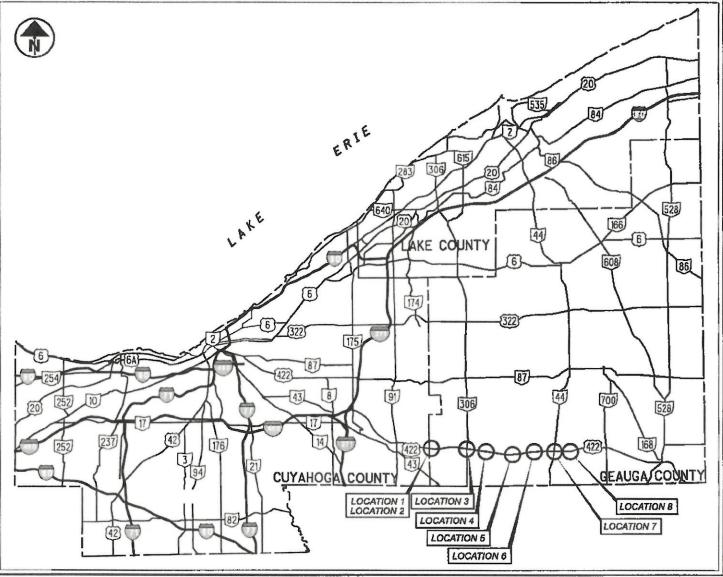
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422-01.70/VAR Paint PID - 105251 105251

Dist 12





# LOCATION MAP

LATITUDE: 41°22'52" N LONGITUDE: 81°16'29" W NOTE: FOR COORDINATES PER LOCATION, SEE SHEET 2

ROADWAY

# STATE OF OHIO **DEPARTMENT OF TRANSPORTATION** GEA-422-1.70/VAR PAINT

LOCATION	BRIDGE NUMBER	STRUCTURAL FILE NUMBER	CITY	TOWNSHIP	VILLAGE
1	GEA-00422-00.170L/R	2801515 2801523		BAINBRIDGE	
2	GEA-C0188-00.170	2801558		BAINBRIDGE	
3	GEA-00422-02.750L/R	2801812 2801839		BAINBRIDGE	
4	GEA-C0191-02.650	2803364		BAINBRIDGE	
5	GEA-C0032-02.350	2803445		AUBURN	
6	GEA-C0004-02.370	2803528		AUBURN	
7	GEA-00422-09.150L/R	2803542 2803569	agreen, the color of the second se	AUBURN	
8	GEA-00422-09.860L/R	2801855 2801744		AUBURN	

# INDEX OF SHEETS:

TITLE SHEET	1
LOCATION MAP	2
GENERAL NOTES	3
MAINTENANCE OF TRAFFIC	4-6
GENERAL SUMMARY	7-9
STRUCTURE GENERAL NOTES	10
LOCATION 1 - GEA-00422-00.170L/R	11-12
LOCATION 2 - GEA-C0188-00.170	13-14
LOCATION 3 - GEA-00422-02.750L/R	15-16
LOCATION 4 - GEA-C0191-02.650	17-18
LOCATION 5 - GEA-C0032-02.350	19-20
LOCATION 6 - GEA-C0004-02.370	21-22
LOCATION 7 - GEA-00422-09.150L/R	23-24
LOCATION 8 - GFA-00422-09.860L/R	25-27

# FEDERAL PROJECT NUMBER

E170 (987)

# RAILROAD INVOLVEMENT

# PROJECT DESCRIPTION

PAINT THE STRUCTURAL STEEL ON MULTIPLE MAINLINE BRIDGES ALONG THE GEA-422 CORRIDOR: CHAGRIN RIVER, CHAGRIN RIVER RD, SR-306, HASKINS RD, MUNN RD, AUBURN RD, SR-44, LADUE RESERVOIR.

# EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.0 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (NOI NOT REQUIRED)

# 2019 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** 

DIRECTOR, DEPARTMENT OF TRANSPORTATION

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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)

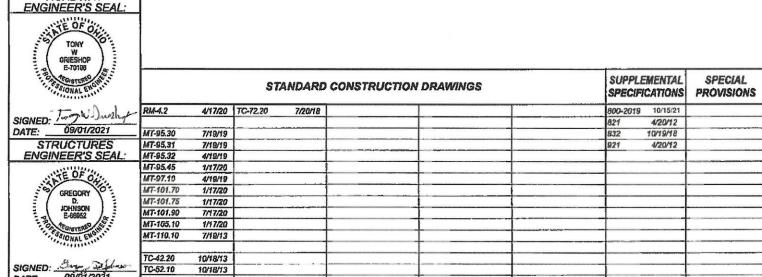
**DESIGN EXCEPTIONS** 

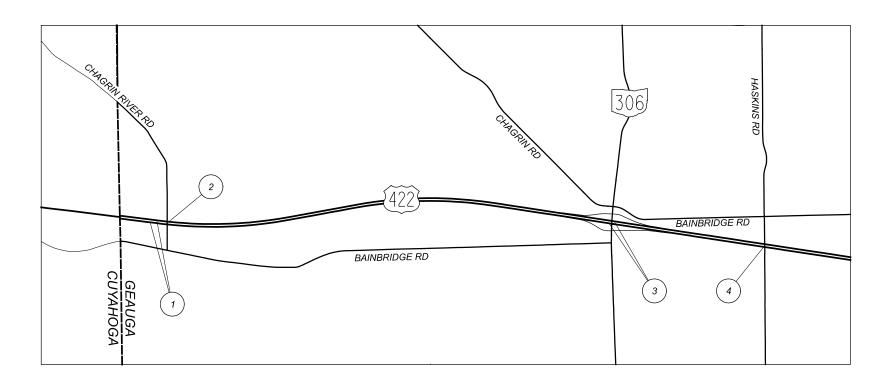
ADA DESIGN WAIVERS

NONE REQUIRED

NONE REQUIRED







LOCATION 1 - GEA-00422-00.170 L/R SFN: 2801515, 2801523 4 SPAN CONTINUOUS STEEL (LT)

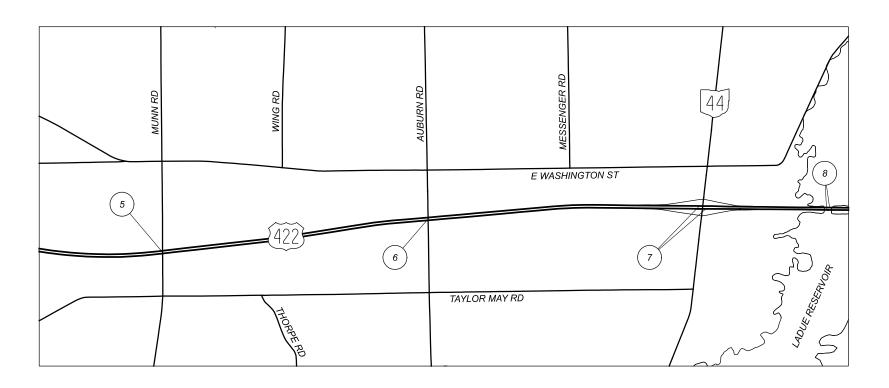
3 SPAN CONTINUOUS STEEL (RT) LATITUDE: 41°23'18" N LONGITUDE: 81°23'18" W

LOCATION 2 - GEA-C0188-00.170 SFN: 2801558 4 SPAN CONTINUOUS STEEL LATITUDE: 41°23'17" N LONGITUDE: 81°23'13" W

LOCATION 3 - GEA-00422-02.750 L/R

SFN: 2801612, 2801639 1 SPAN STEEL (LT) 1 SPAN STEEL (RT) LATITUDE: 41°23'16" N LONGITUDE: 81°20'22" W

LOCATION 4 - GEA-C0191-02.650 SFN: 2803364 2 SPAN CONTINUOUS STEEL LATITUDE: 41°23'08" N LONGITUDE: 81°19'23" W



LOCATION 5 - GEA-C0032-02.350 SFN: 2803445 2 SPAN CONTINUOUS STEEL LATITUDE: 41°22'51" N LONGITUDE: 81°16'29" W

LOCATION 6 - GEA-C0004-02.370 SFN: 2803526 2 SPAN CONTINUOUS STEEL LATITUDE: 41°23'00" N LONGITUDE: 81°14'47" W

LOCATION 7 - GEA-00422-09.150 L/R SFN: 2803542, 2803569 4 SPAN CONTINUOUS STEEL (LT) 4 SPAN CONTINUOUS STEEL (RT) LATITUDE: 41°23'02" N LONGITUDE: 81°13'01' W

LOCATION 8 - GEA-00422-09.860 L/R SFN: 2801655, 2801744 4 SPAN CONTINUOUS STEEL (LT) 4 SPAN CONTINUOUS STEEL (RT) LATITUDE: 41°23'01" N LONGITUDE: 81°12'12" W



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# UTILITIES

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

# **ELECTRIC**

CELEIRST ENERGY PUBLIC WORKS TERRITORIES -THE ILLUMINATING CO. 7755 AUBURN RD. CONCORD, OH 44077 ATTN: FREDRICK E. RANDOLPH PHONE: (440) 358-4991

### COMMUNICATIONS

AT&T OHIO 13630 LORAIN AVE., 2ND FLOOR CLEVELAND. OH 44111 ATTN: JAMES JANIS PHONE: (216) 476-6142

CHARTER COMMUNICATIONS 7820 DIVISION DR MENTOR, OH 44066 ATTN: MATT HANNAH PHONE: (216) 575-8016

SUDDENLINK 23 W. BROAD ST. NEWTON FALLS, OH 44444 ATTN: JERRY WALSH PHONE: (330) 207-0894

VERIZON 12300 RIDGE RD. NORTH ROYALTON, OH 44133 ATTN: DAN ARZ PHONE: (440) 457-4832

WINDSTREAM 100 OWEN BROWN ST. HUDSON, OH 44236 ATTN: JON HOBBY PHONE: (440) 285-5474

# GAS

DOMINION ENERGY OHIO 320 SPRINGSIDE DR., SUITE 320 AKRON, OH 44333 ATTN: MICAH J. RISACHER PHONE: (330) 664-2409

NORTHEAST OHIO NATURAL GAS CORP. 8470 STATION ST. MENTOR, OH 44066 ATTN: TIM REILLY PHONE: (440) 701-5100

# WATER

AKRON WATER DISTRIBUTION 1460 TRIPI ETT BI VD AKRON. OH 44308 ATTN: TONY PUGLIA PHONE: (330) 375-2369

CITY OF CLEVELAND DIVISION OF WATER 1201 LAKESIDE AVE. CLEVELAND, OH 44114 ATTN: FRED ROBERTS PHONE: (216) 664-2444 x75590

GEAUGA COUNTY DEPARTMENT OF WATER RESOURCES 470 CENTER ST., BLDG. #3 CHARDON, OH 44024 ATTN: GERALD R. MORGAN

TANGLEWOOD WATER DIVISION 17400 HASKINS RD. CHAGRIN FALLS, OH 44023 PHONE: (440) 543-7424

PHONE: (440) 279-1981

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.

# **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.

## CLEARING AND GRUBBING, AS PER PLAN

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE 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. THIS ITEM SHALL INCLUDE TRIMMING BACK ALL TREE BRANCHES AND BRUSH WHICH ARE WITHIN 10'-0" OF ANY LOCATION TO HAVE A PAINTED OR SEALED SURFACE. NO COMPLETE TREE REMOVALS ARE PERMITTED AND ARE NOT REQUIRED FOR CONSTRUCTION ACCESS.

# **EXISTING STRUCTURE VERIFICATION**

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND THE PROPOSED WORK BUT SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO SECTIONS 102.05, 105.02, AND 513.04 OF THE 2019 CONSTRUCTION AND MATERIAL SPECIFICATIONS.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PRE-BID EXAMINATION OF THE EXISTING STRUCTURES BY THE CONTRACTOR.

THE EXISTING STRUCTURE PLANS MAY BE REVIEWED AT THE: OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 12 OFFICE 5500 TRANSPORTATION BOULEVARD GARFIELD HEIGHTS, OH 44125

HTTP://WWW.DOT.STATE.OH.US/DIVISIONS/CONTRACTADMIN/ CONTRACTS/PAGES/DESIGNFILES.ASPX

# STAGING AREAS

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 AT HTTPS://ODHCP.BEMCORP.NET/ACCOUNTS/ACCOUNT/ACCOUNT IN ORDER TO APPLY FOR A PERMIT PER SECTION 107.02 OF THE CMS. FOR SPECIFIC PERMITTING QUESTIONS, THE CONTRACTOR CAN CONTACT THE DISTRICT PERMITTING OFFICE, (MELVIN SAFFORD) AT 216-584-2137 OR AT DISTRICT12PERMITS@DOT.OHIO.GOV.

THERE ARE NO SPECIFIC AREAS GIVEN IN THE PLANS FOR THE

IF A PERMIT IS GRANTED. ALL CONDITIONS OF THE PERMIT SHALL BE MET IN ADDITION TO THE REQUIREMENTS OF 104.04 OF THE CMS, 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 630-SIGNING, MISC.: STREET NAME SIGN SHEETING

EXISTING STREET SIGN SHEETING (SELF ADHERING SHEETING DIRECTLY APPLIED TO THE BRIDGE BEAM) SHALL BE REMOVED AN REPLACED FOR THE US-422 EASTBOUND AND WESTBOUND APPROACHES. THE SIGNS ARE FABRICATED AND CAN BE OBTAINED FROM THE DISTRICT 12 TRAFFIC ENGINEER. THE CONTRACTOR SHALL CONTACT KEITH HAMILTON, (216) 584-2200 TO ACQUIRE THE SIGNS. THE COST FOR THE PICK-UP OF THESE SIGNS FROM THE DISTRICT HEADQUARTERS SHALL BE INCIDENTAL TO THIS ITEM OF WORK

THERE SHALL BE 2 SIGNS FOR EACH APPROACH OF THE BRIDGES LISTED BELOW

GEA-C0188-00.170 CHAGRIN RIVER RD GEA-C0191-02.650 HASKINS RD GEA-C0032-02.350 MUNN RD AUBURN RD GEA-C0004-02.370

THE COST TO ERECT THESE 8 SIGNS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 630-SIGNING, MISC.: STREET NAME SIGN SHEETING

THE FOLLOWING ESTIMATED QUANTITY IS INCLUDED IN THE GENERAL SUMMARY:

ITEM 630-SIGNING, MISC. SIGN REFLECTIVE SHEETING. . . . . . 8 EACH

# R/W FENCE

R/W FENCES EXIST AT LOCATIONS 1 AND 8. ANY EXISTING FENCE DISTURBED BY THE CONTRACTOR FOR THEIR OPERATIONS SHALL BE CAREFULLY REMOVED AND REINSTALLED. ALL LABOR. EQUIPMENT. AND MATERIALS NECESSARY TO PERFORM THE WORK ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 -MAINTAINING TRAFFIC. ANY FENCE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO ADDITIONAL COST.

# ITEM 623 - CONSTRUCTION LAYOUT STAKES, AS PER PLAN

AN OHIO PROFESSIONAL SURVEYOR SHALL DETERMINE THE MINIMUM VERTICAL CLEARANCES OF ALL EXISTING AND NEW BRIDGES WITHIN THE PROJECT LIMITS. AT A MINIMUM, MEASUREMENTS SHALL BE TAKEN ALONG EACH FASCIA BEAM AT THE EDGE OF SHOULDERS, EDGE LINES, LANE LINES, AND CROWN OF THE ROADWAY BELOW. THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM SHALL BE USED, WHERE APPLICABLE, TO DOCUMENT THE MEASUREMENTS. WHERE THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM IS NOT APPLICABLE, THE MEASUREMENTS SHALL BE DOCUMENTED ON A CONTRACTOR-DEVELOPED FORM THAT CLOSELY RESEMBLES THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM AND ACCURATELY DEPICTS THE BRIDGE AND BELOW LANE AND SHOULDER CONFIGURATION. THE COMPLETED FORM SHALL BEAR THE STAMP OR SEAL OF THE OHIO PROFESSIONAL SURVEYOR WHO HAS TAKEN THE MEASUREMENTS AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM CAN BE DOWNLOADED FROM THE FOLLOWING WEBSITE:

http://www.dot.state.oh.us/districts/D12/ HighwayManagement/Pages/Permits.aspx

# **ENVIRONMENTAL COMMITMENTS**

- 1. ODNR SCENIC RIVER SHALL BE INVITED TO THE PRE-CONSTRUCTION MEETING.
- 2. NO WORK CAN TAKE PLACE BELOW THE ORDINARY HIGHWATER MARK (OHWM).
- 3. RECREATIONAL BOATING ACCESS FROM THE NORTH AND SOUTHSIDE OF LADUE RESERVOIR SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
- 4. THE CONTRACTOR SHALL POST SIGNAGE AT THE TWO ODNR BOAT LAUNCHES TO NOTIFY PADDLERS/BOATERS OF CONSTRUCTION ACTIVITIES.
- 5. THE CONTRACTOR SHALL PLACE SIGNS ON BUOYS ON EITHER SIDE OF THE BRIDGE.
- 6. THE PROJECT ENGINEER SHALL NOTIFY THE ODNR TRAILS ADMINISTRATOR 14 CALENDAR DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO ALLOW ODNR TO POST NOTICE OF THE IMPENDING PROJECT CONSTRUCTION ON THE APPROPRIATE ODNR WEBPAGES AND ASSOCIATED ONLINE BOATING MAPS. AS PART OF NOTIFICATION EFFORTS, THE PROJECT ENGINEER SHALL ALSO PROVIDE PLANS THAT INDICATE SIGNAGE LOCATION ALONG THE WATERWAY AND ANY ADDITIONAL PLANNED NOTIFICATION EFFORTS WITH ODNR THAT WILL TAKE PLACE DURING OR AFTER CONSTRUCTION
- 7. THE CONTRACTOR SHALL BE REQUIRED TO CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH ODOT AND ODNR PRIOR TO THE START OF CONSTRUCTION ACTIVITIES



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# ITEM 614 - MAINTAINING TRAFFIC

GENERALLY, THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AS TO MAKE THE PROPOSED REPAIR WITH A MINIMUM OF HAZARD. DELAY. AND INCONVENIENCE TO THE MOTORISTS USING THE HIGHWAY AFFECTED BY THE WORK ZONE UNDER THIS CONTRACT. IN ADDITION TO THE CONSTRUCTION AND MATERIAL SPECIFICATIONS THE FOLLOWING SPECIFIC PROVISIONS ARE MANDATORY.

# NOTIFICATION

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE FOLLOWING:

DISTRICT PUBLIC INFORMATION OFFICER BY EMAIL AT (D12.PUBLIC.INFROMATION@DOT.OHIO.GOV)

DISTRICT PERMIT SECTION BY EMAIL AT (DISTRICT12.PERMITS@DOT.OHIO.GOV)

CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY EMAIL AT (HAULING.PERMITS@DOT.OHIO.GOV)

THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

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

	NOTIFICATION TIME TABLE		
	ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
		>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
F	RAMP & ROAD CLOSURES	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
		<= 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
L	LANE CLOSURES &	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
RES	RESTRICTIONS	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
	START OF CONSTRUCTION & FRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

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

# LANE CLOSURE RESTRICTIONS

- LANE CLOSURE(S) SHALL CONFORM TO THE PLCS. PUBLISHED PLCS INFORMATION CAN BE FOUND ON THE ODOT WEBSITE AT: HTTPS://WWW.TRANSPORTATION.OHIO.GOV/WPS/ PORTAL/GOV/ODOT/WORKING/DATA-TOOLS/ RESOURCES/PERMITTED-LANE-CLOSURE
- UNLESS OTHERWISE NOTED, EXIT AND ENTRANCE RAMP LANES SHALL REMAIN OPEN AT ALL TIMES AND EXHIBIT A MINIMUM WIDTH OF ELEVEN (11) FEET.
- 3. MAINTENANCE OF TRAFFIC SHALL FOLLOW THE INSTRUCTION OF THE STANDARD CONSTRUCTION DRAWINGS LISTED ON THE TITLE SHEET AND THE LATEST REVISION OF THE OMUTCD.
- PEDESTRIAN TRAFFIC SHALL BE PERMITTED AND ACCOMMODATED ON AT LEAST ONE SIDE AT A TIME AT LOCATIONS WHERE PEDESTRIAN TRAFFIC IS CURRENTLY MAINTAINED.
- 5. ALL DRIVES SHALL BE MAINTAINED AT ALL TIMES.

# LOCATION 1 (GEA-00422-00.170L/R):

THE CONTRACTOR SHALL STORE PAINTING EQUIPMENT IN THE MEDIAN. ALL LANES OF TRAFFIC ON USR 422 SHALL BE MAINTAINED AT ALL TIMES.

# LOCATION 2 (GEA-C0188-00.170):

THE CONTRACTOR SHALL STORE PAINTING EQUIPMENT IN THE USR 422 MEDIAN. ALL LANES OF TRAFFIC ON USR 422 SHALL BE MAINTAINED DURING PEAK HOURS. ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED DURING PAINTING OPERATIONS. BRIDGE SHALL BE TARPED OVERNIGHT AND ON WEEKENDS.

# LOCATION 3 (GEA-00422-02.750L/R).

THE CONTRACTOR SHALL STORE PAINTING EQUIPMENT ALONG SR 306 (CHILLICOTHE ROAD). PAINTING IS TO BE PERFORMED DURING THE WEEKEND (FRIDAY 8PM TO MONDAY 8AM). ALL LANES OF TRAFFIC ON SR 306 SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING PAINTING OPERATION WHEN ONE I ANE OF TRAFFIC IN FACH DIRECTION SHALL BE MAINTAINED. PAINTING OPERATIONS ARE ANTICIPATED TO BE PERFORMED IN 3 PHASES. RAMPS SHALL BE MAINTAINED AT ALL TIMES, WITH THE EXCEPTION THAT ONE OF THE TWO DUAL LEFT TURN LANES ON THE FASTBOUND USR 422 FXIT RAMP IS PERMITTED TO BE CLOSED DURING PAINTING OPERATION.

# LOCATION 4 (GEA-C0191-02.650):

LOCATION 5 (GEA-C0032-02.350): LOCATION 6 (GEA-C0004-02.370):

THE CONTRACTOR SHALL STORE PAINTING EQUIPMENT IN THE USR 422 MEDIAN. ALL LANES OF TRAFFIC ON USR 422 SHALL BE MAINTAINED DURING PEAK HOURS. ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED DURING PAINTING OPERATIONS. BRIDGE SHALL BE TARPED OVERNIGHT AND ON WEEKENDS.

# LOCATION 7 (GEA-00422-09.150L/R):

THE CONTRACTOR SHALL STORE PAINTING EQUIPMENT ALONG SR 44 (RAVENNA ROAD). PAINTING IS TO BE PERFORMED DURING THE WEEKEND (FRIDAY 8PM TO MONDAY 8AM). ALL LANES OF TRAFFIC ON SR 44 SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING PAINTING OPERATION WHEN ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED. PAINTING OPERATIONS ARE ANTICIPATED TO BE PERFORMED IN 3 PHASES. RAMPS SHALL BE MAINTAINED AT ALL TIMES.

# LOCATION 8 (GEA-00422-09.860L/R):

THE CONTRACTOR SHALL STORE PAINTING EQUIPMENT IN THE MEDIAN. ALL LANES OF TRAFFIC ON USR 422 SHALL BE MAINTAINED AT ALL TIMES.

# MAINTENANCE OF TRAFFIC SYSTEMS

# WHEN REQUIRED

WHENEVER ANY PART OF THE TRAVELED SURFACE IS BEING WORKED UPON OR IS OTHERWISE NOT SUITABLE FOR SAFE AND CONVENIENT USE BY VEHICLES, TRAFFIC CONTROL DEVICES SUFFICIENT TO PROTECT SUCH AREAS TO ASSURE THE SAFE AND CONVENIENT PASSAGE OF VEHICULAR TRAFFIC SHALL BE INSTALLED AND MAINTAINED. SUCH TRAFFIC CONTROL DEVICES AND THE MANNER IN WHICH THEY ARE USED SHALL BE CONSISTENT WITH THESE PLANS AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. HEREINAFTER REFERRED TO AS THE "MANUAL". THE TRAFFIC CONTROL DEVICE SYSTEM SHALL CONSTITUTE THE MINIMUM PROVISIONS FOR TRAFFIC CONTROL FOR EACH PARTICULAR SITUATION. WHENEVER THE ENGINEER DEEMS IT NECESSARY ESPECIALLY WHERE A GRADE. CURVE, OR MERGE CONDITIONS EXISTS, HE MAY DIRECT THAT ADDITIONAL OR ALTERNATIVE DEVICES BE USED.

### 2. CONDITIONS

DURING ALL PARTS OF THIS PROJECT FLAGGERS, SIGNING, BARRICADES, FLASHING ARROWS, ETC. SHALL BE LOCATED AS INDICATED IN THE "MANUAL" OR AS SHOWN IN THE STANDARD DRAWINGS.

# 3. ADVANCE WARNING SIGNS

ALL ADVANCE WARNING SIGNS FOR ANY CONDITIONS WHICH RESTRICTS TRAFFIC SHALL BE ERECTED BEFORE ANY SUCH RESTRICTION IS PUT INTO EFFECT. ALL SUCH SIGNS SHALL BE COVERED OR REMOVED FROM THE VIEW OF TRAFFIC WHENEVER THEY ARE NOT APPLICABLE.

# FLAGGERS

AT LEAST ONE FLAGGER IS REQUIRED FOR CLOSURE. THE CONTRACTOR SHALL FURNISH ADDITIONAL FLAGGERS AS DIRECTED BY THE ENGINEER.

# PROTECTION OF PUBLIC

PERSONAL CARS SHALL NOT BE PARKED WITHIN THE RIGHT OF WAY.

# 6. FAILURE TO COMPLY

IF THERE IS ANY FAILURE TO COMPLY WITH PROVISIONS OF THE "MANUAL". THE HIGHWAY IN THE VICINITY OF THE WORK AREA SHALL NOT BE CONSIDERED IN A CONDITION FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC. ANY FAILURE TO KEEP THE HIGHWAY, IN THE VICINITY OF THE WORK AREA. IN A CONDITION FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC SHALL BE CONSIDERED A BREACH OF THIS CONTRACT. WORK SHALL BE SUSPENDED UNTIL THE CONTRACTOR COMPLIES WITH THE PROVISIONS OF THE AFOREMENTIONED ITEMS.

# IV. MAINTENANCE OF TRAFFIC MATERIALS

SIGN DIMENSIONS AND SPECIFICATIONS. INCLUDING LETTER SIZES ARE TO BE AS PROVIDED IN THE "MANUAL", OR IN DESIGN DRAWINGS PROVIDED BY THE DEPARTMENT OF TRANSPORTATION. THE SIGNS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER PRIOR TO THE START OF THE PROJECT.

### 2. SIGN SUPPORT

SIGN SUPPORTS SHALL BE OF SUFFICIENT SIZE AND MASS AS TO SUPPORT THE SIGNS AT THE APPROPRIATE HEIGHT. SUPPORTS SHALL BE AS SHOWN ON THE STANDARD DRAWINGS.

# 3. FLASHING ARROW REQUIREMENT

WHENEVER ANY PART OF THE TRAVELED SURFACE IS CLOSED, THE MOTORISTS SHALL BE WARNED AND DIRECTED BY THE CONTRACTOR THROUGH THE USE OF ONE FLASHING ARROW PANEL FOR EACH LANE CLOSED. THE CONTRACTOR SHALL REFER TO SUPPLEMENTAL SPECIFICATION 821, 921 AND THE PROVISIONS SET FORTH IN THE "MANUAL" FOR ALL INFORMATION REGARDING FURNISHING, MAINTAINING, AND USE OF FLASHING ARROW PANELS.

DRUMS SHALL BE IN ACCORDANCE WITH PERTINENT SECTIONS OF THE "MANUAL". ALL COSTS FOR INSTALLING. MAINTAINING. AND SUBSEQUENT REMOVAL OF SAID DRUMS IS TO BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

# 5. CONES

CONES, IF UTILIZED, ARE TO BE LOCATED AS SHOWN IN THE "MANUAL" AND THE STANDARD DRAWINGS.

# BARRIER

PORTABLE BARRIER IF NECESSARY IS TO BE LOCATED AS SHOWN IN THE "MANUAL" AND THE STANDARD DRAWINGS.

# 7. FLASHERS

FLASHERS SHALL BE 12 VOLT BATTERY-OPERATED MODELS WITH 7 INCH DIAMETER YELLOW LENSES ILLUMINATED BY RAPID INTERMITTENT FLASHERS OF SHORT DURATION AND ARE TO BE PLACED ON ALL SIGNS AT ALL TIMES AS REQUIRED BY THE "MANUAL" AND THE STANDARD CONSTRUCTION DRAWINGS.

# 8. FLOODLIGHTING

FLOODLIGHTING OF THE WORKSITE FOR OPERATIONS CONDUCTED DURING THE NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE ADEQUACY OF THE ELOODLIGHT PLACEMENT. THE CONTRACTOR AND ENGINEER SHALL DRIVE THROUGH THE WORKSITE 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.



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### WORK VEHICLES

ALL WORK VEHICLES LICENSED TO OPERATE ON THE HIGHWAY, SHALL BE EQUIPPED WITH A FLASHING, ROTATING, OR OSCILLATING AMBER LIGHT VISIBLE TO ALL DIRECTIONS OF TRAFFIC FOR A MINIMUM OF ONE-QUARTER MILE IN BRIGHT SUNLIGHT AND SHALL BE OPERATED WITH LIGHTED HEAD AND TAIL LAMPS. THE AMBER LIGHT SHALL BE IN OPERATION AT ALL TIMES. WITHIN THE WORK ZONE AND WHILE TRAVELING TO AND FROM THE WORK ZONE WHENEVER THE VEHICLE SPEED IS BELOW THE POSTED LEGAL LIMIT. VEHICLE HAZARD LIGHTS DO NOT SATISFY THIS REQUIREMENT. ALL OTHER EQUIPMENT SHALL BE EQUIPPED WITH A FLASHING, ROTATING, OR OSCILLATING AMBER LIGHT VISIBLE TO ALL DIRECTIONS OF TRAFFIC FOR A MINIMUM OF ONE-QUARTER MILE IN BRIGHT SUNLIGHT. THE AMBER LIGHT SHALL BE IN OPERATION WHILE THE EQUIPMENT IS WITHIN THE WORK ZONE.

# V. PAYMENT

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS, INCLUDING R/W FENCE WORK DESCRIBED ON SHEET 3, SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

# **MAINTENANCE OF TRAFFIC SCHEME**

THE CONTRACTOR SHALL DEVISE A SIMPLE MAINTENANCE OF TRAFFIC SCHEME. WHICH SHALL BE DEVISED BY THE WORKSITE TRAFFIC SUPERVISOR (SCHEME MAY BE A HAND SKETCH) AND PRESENT IT TO THE DISTRICT WORK ZONE TRAFFIC CONTROL ENGINEER AND PROJECT ENGINEER FOR ACCEPTANCE AT LEAST TWO WEEKS PRIOR TO IMPLEMENTATION. IN GENERAL, THE METHODS FOR MAINTAINING TRAFFIC THAT THE CONTRACTOR PROPOSES TO USE FOR CONDUCTING THE REQUIRED WORK IN A SAFE AND EFFICIENT MANNER CAN BE SHOWN BY HAND SKETCHES AS NECESSARY. THE MAINTENANCE OF TRAFFIC SCHEME SHALL BE IN CONFORMANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST REVISION) THE REFERENCED STANDARD CONSTRUCTION DRAWINGS. THE ATTACHED MAINTENANCE OF TRAFFIC SHEETS, AND THE SPECIFICATIONS. THE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL THE MAINTENANCE OF TRAFFIC SCHEME HAS BEEN ACCEPTED

IF DURING THE PROJECT THE ENGINEER DETERMINES THAT THE APPROVED MAINTENANCE OF TRAFFIC PLAN IS NOT PERFORMING AS DESIRED, THE WORK SHALL BE SUSPENDED UNTIL THE PROBLEM IS RESOLVED TO THE SATISFACTION OF THE ENGINEER AND THE MAINTENANCE OF TRAFFIC PLAN IS REVISED ACCORDINGLY. ANY COSTS OR DELAYS INCURRED AS A RESULT OF THE FAILURE OF THE SATISFACTION OF THE ENGINEER SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.

PAYMENT FOR ALL THE ITEMS REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THESE REQUIREMENTS IS INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614-MAINTAINING TRAFFIC.

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

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

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

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

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

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

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

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

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

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

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 20 SIGN MONTH ASSUMING 2 PCMS SIGNS FOR 10 MONTHS

# ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

FOR OPERATIONS WITHOUT POSITIVE PROTECTION
OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE
THAT MEET ALL OF THE FOLLOWING CRITERIA:

ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND,

AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS, CONES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND

TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED.

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION, PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF:

THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER; OR

THE ACTIVE WORK AREA LATERALLY CLOSEST TO THE OPEN TRAVELED LANE; OR

OTHER LOCATION AS APPROVED BY THE ENGINEER.

THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR.
THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE
SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES
AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH
RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL
HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT,
AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE
TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR
FOR ASSISTANCE 100 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.



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# **EQUIPMENT AND MATERIAL STORAGE**

IN ORDER TO PROVIDE FOR THE SAFETY OF THE TRAVELING PUBLIC THE CONTRACTOR'S ATTENTION IS DIRECTED TO C&MS 614.035. IN ADDITION, THE FOLLOWING PROVISIONS SHALL APPLY:

- ANY REMOVED ITEMS SHALL NOT BE STORED ON THE RIGHT OF WAY FOR MORE THAN THIRTY DAYS.
- ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE STATE.

### LOCATION 1 - GEA-00422-00.170 L/R

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED TO PROTECT EQUIPMENT AND MATERIALS STORED IN THE MEDIAN.

ITEM 614, WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	1 EACH
ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE WAY)	10 EACH
ITEM 614, OBJECT MARKER, ONE WAY	10 EACH

400 FT.

# LOCATION 4 - GEA-C0191-02.650

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED TO PROTECT EQUIPMENT AND MATERIALS STORED IN THE MEDIAN.

ITEM 622, PORTABLE BARRIER, UNANCHORED

ITEM 614, WORK ZONE IMPACT ATTENUATOR,	
24" WIDE HAZARDS, (UNIDIRECTIONAL)	2 EACH
ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE WAY)	22 EACH
ITEM 614, OBJECT MARKER, ONE WAY	22 EACH
ITEM 622, PORTABLE BARRIER, UNANCHORED	1000 FT.

# LOCATION 5 - GEA-C0032-02.350

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED TO PROTECT EQUIPMENT AND MATERIALS STORED IN THE MEDIAN.

ITEM 614, WORK ZONE IMPACT ATTENUATOR,

24" WIDE HAZARDS, (UNIDIRECTIONAL)	2 EACH
ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE WAY)	22 EACH
ITEM 614, OBJECT MARKER, ONE WAY	22 EACH
ITEM 622, PORTABLE BARRIER, UNANCHORED	1000 FT.

# LOCATION 6 - GEA-C0004-02.370

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED TO PROTECT EQUIPMENT AND MATERIALS STORED IN THE MEDIAN.

ITEM 614, WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	2 EACH
ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE WAY)	22 EACH
ITEM 614, OBJECT MARKER, ONE WAY	22 EACH
ITEM 622, PORTABLE BARRIER, UNANCHORED	1000 FT.

# LOCATION 8 - GEA-00422-09.860 L/R

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED TO PROTECT EQUIPMENT AND MATERIALS STORED IN THE MEDIAN.

ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE WAY) 5 EACH

ITEM 614, OBJECT MARKER, ONE WAY 5 EACH

ITEM 622, PORTABLE BARRIER, UNANCHORED 200 FT.

# **ITEM 614, MAINTAINING TRAFFIC (ESTIMATED QUANTITIES)**

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

ITEM 614. ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 10 CU. YD.

# 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.



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BRIDGE NO. GEA-00422-00.170 L/R BRIDGE NO. GEA-C0188-00.170

BRIDGE NO. GEA-00422-02.750 L/R

BRIDGE NO. GEA-00422-09.860 L/R

BRIDGE NO. GEA-C0191-02.650

BRIDGE NO. GEA-C0032-02.350

BRIDGE NO. GEA-C0004-02.370

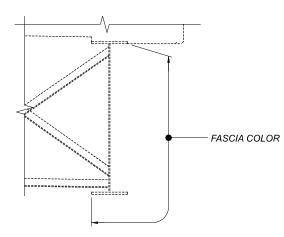
BRIDGE NO. GEA-00422-09.150 L/R

# ITEM 514 - FIELD PAINTING

THE CONTRACTOR SHALL NOT OVERSPRAY ONTO THE CONCRETE DECK OR CONCRETE SUBSTRUCTURE COMPONENTS (BACK WALLS, ABUTMENTS, AND PIERS). PAINTING SHALL BE CONFINED TO THE STRUCTURAL STEEL COMPONENTS, UTILITY SUPPORTS, AND THE DRAINAGE SCUPPERS INCLUDING DOWNSPOUTS.

UTILITY CONDUITS SHALL NOT BE PAINTED. STEEL UTILITY SUPPORTS AND DRAINAGE SCUPPERS SHALL BE PAINTED.

THE STRUCTURES INCLUDED IN THE PAINTING SHALL HAVE A TWO-COLOR SCHEME FOR THE STRUCTURAL STEEL. THE FINISH COAT COLOR SHALL BE FEDERAL COLOR NUMBER FC#14533 (LIGHT GREEN, GLOSS) WITH AN EXCEPTION TO THE FASCIA. THE FASCIA COLOR SHALL BE FEDERAL COLOR NUMBER FC#24108 (GREEN, GLOSS) AND SHALL BE PAINTED IN ACCORDANCE WITH THE "FASCIA PAINT DETAIL". THE CONTRACTOR SHALL PROVIDE SAMPLE COLOR CHIPS TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK,



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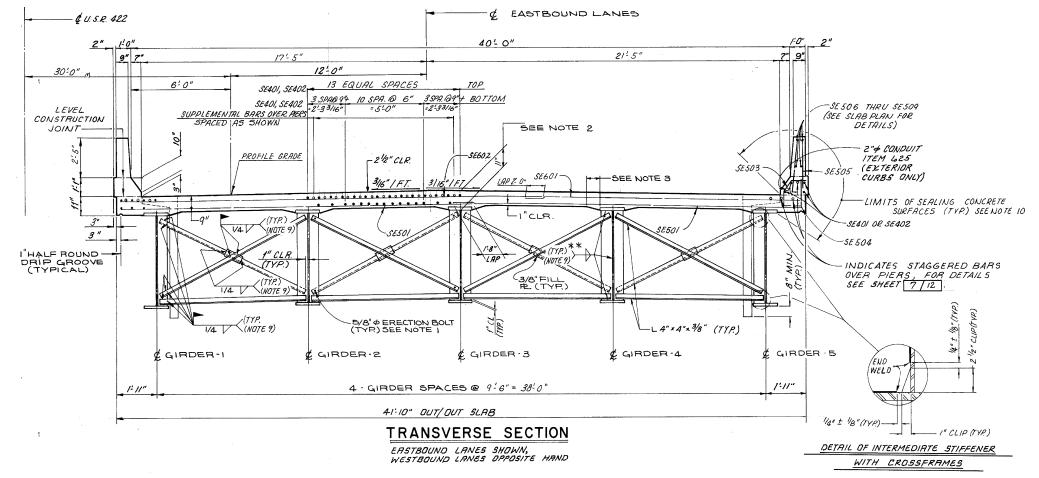
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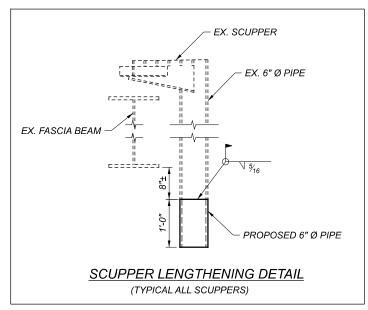
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# NOTES

- 1. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS, AND SHALL BE USED FOR INFORMATION PURPOSES ONLY.
- 2. PERFORM ONLY THE WORK DESCRIBED IN THE GENERAL NOTES AND GENERAL SUMMARY.
- 3. SCUPPER LENGTHENING SHALL BE PERFORMED PRIOR TO BRIDGE PAINTING.

SUPERSTRUCTURE DETAILS BRIDGE NO. GEA-00422-00.170L/R OVER AURORA BRANCH OF CHAGRIN RIVER

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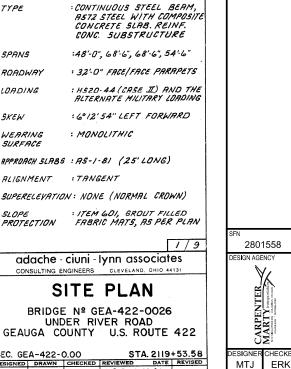
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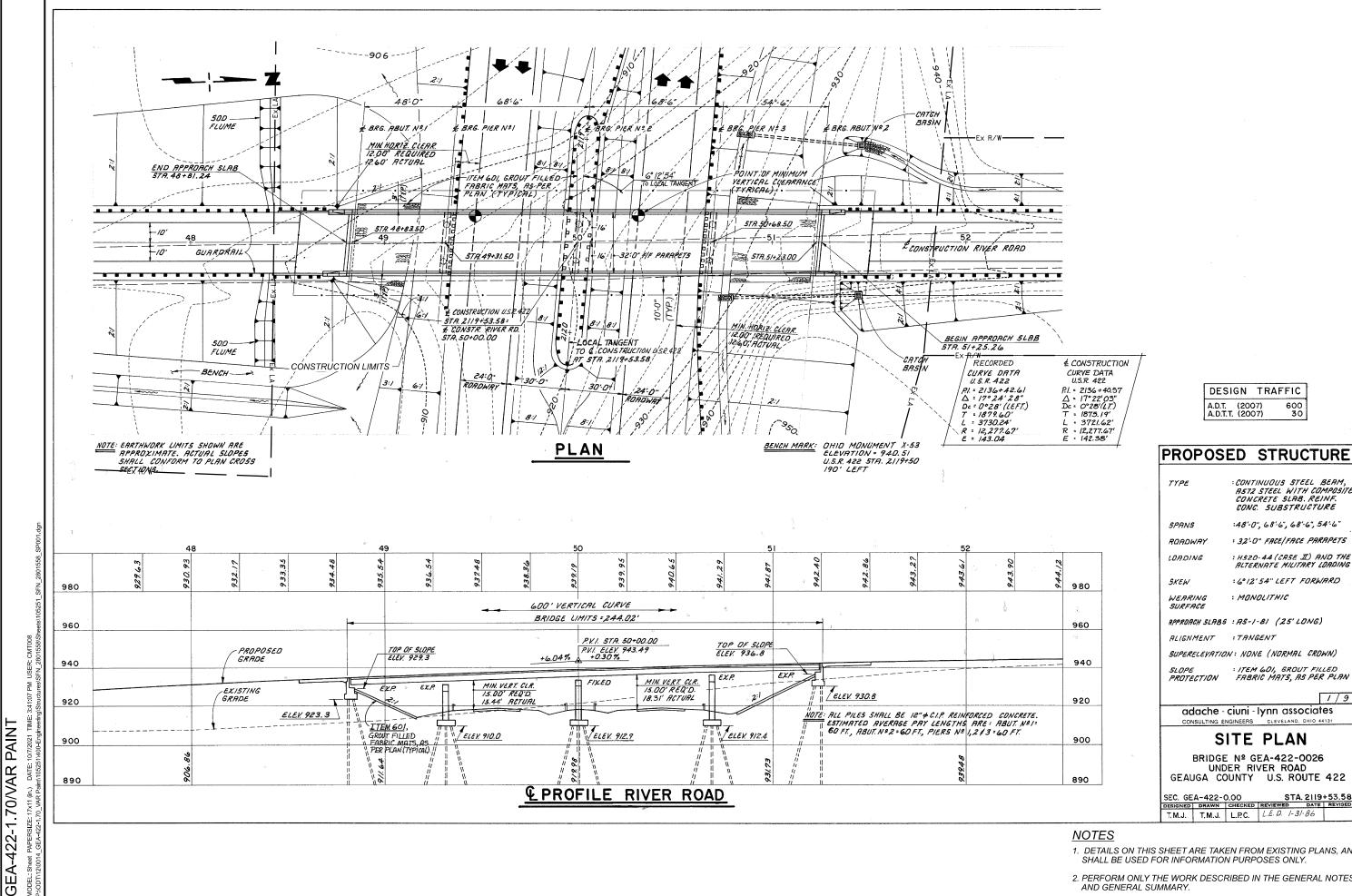




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- 1. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS, AND SHALL BE USED FOR INFORMATION PURPOSES ONLY.
- 2. PERFORM ONLY THE WORK DESCRIBED IN THE GENERAL NOTES AND GENERAL SUMMARY.

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- DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS, AND SHALL BE USED FOR INFORMATION PURPOSES ONLY.
- 2. PERFORM ONLY THE WORK DESCRIBED IN THE GENERAL NOTES AND GENERAL SUMMARY.

SITE PLAN BRIDGE NO. GEA-00422-02.750L/R OVER S.R. 306 (CHILLICOTHE ROAD)

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# NOTES

- 1. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS, AND SHALL BE USED FOR INFORMATION PURPOSES ONLY.
- 2. PERFORM ONLY THE WORK DESCRIBED IN THE GENERAL NOTES AND GENERAL SUMMARY.

SUPERSTRUCTURE DETAILS BRIDGE NO. GEA-00422-02.750L/R OVER S.R. 306 (CHILLICOTHE ROAD)

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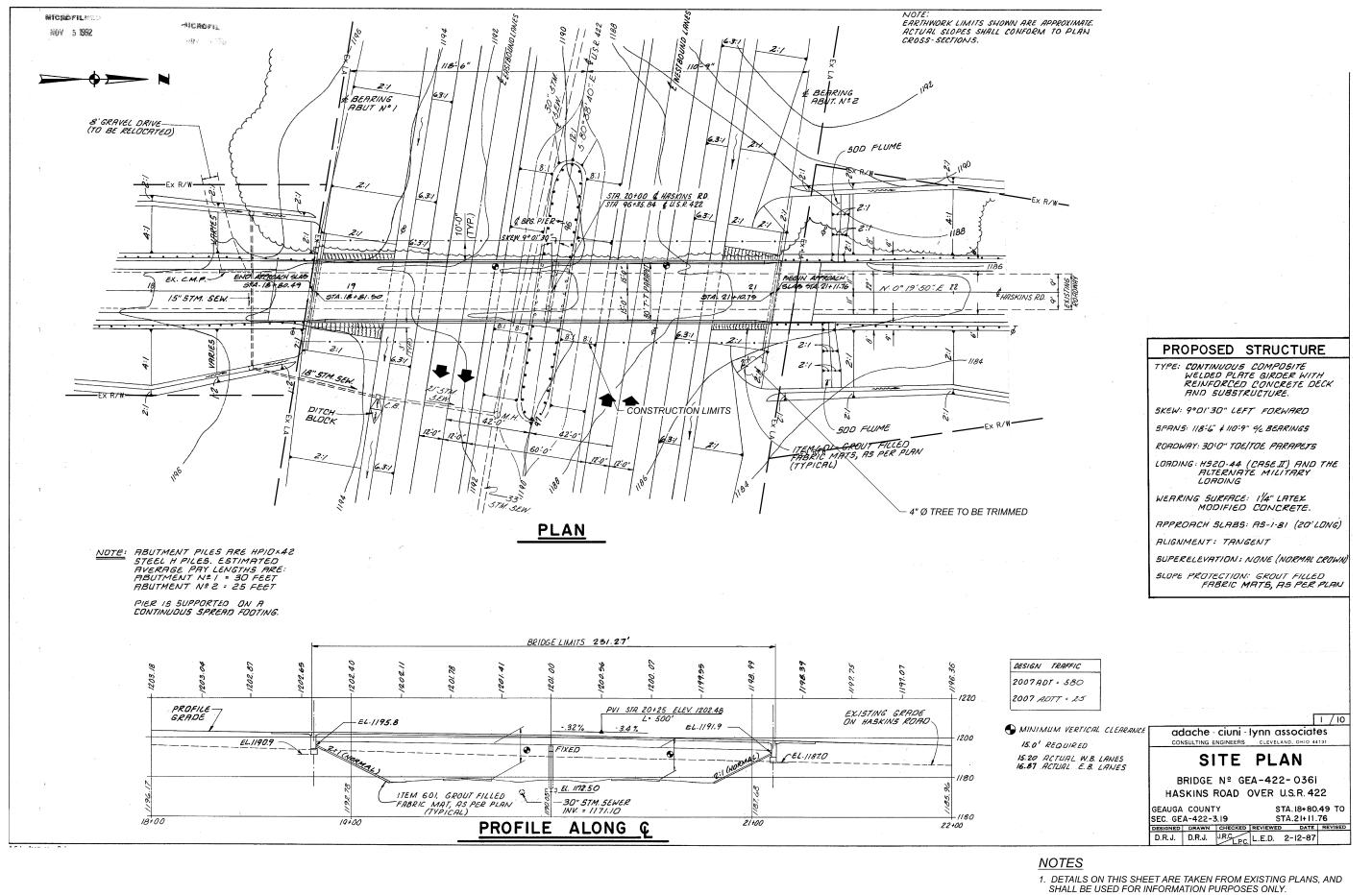
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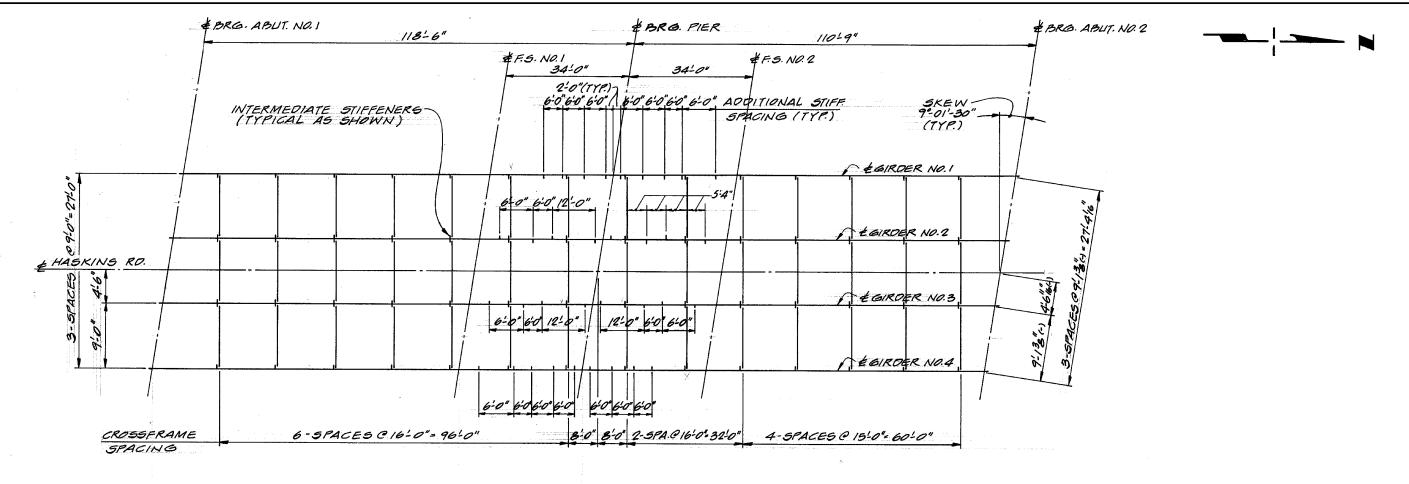
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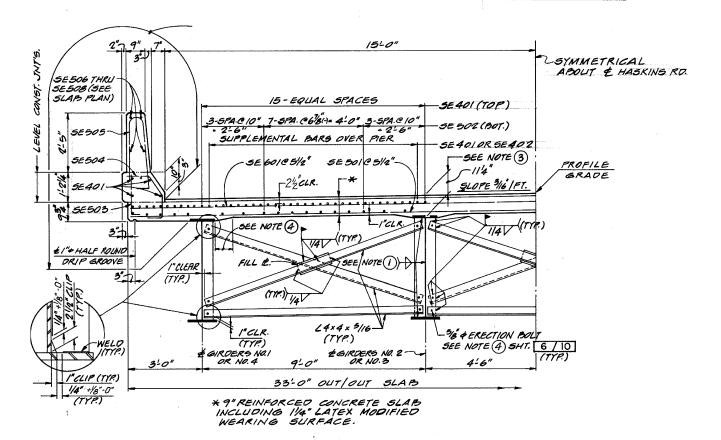
2. PERFORM ONLY THE WORK DESCRIBED IN THE GENERAL NOTES

AND GENERAL SUMMARY.





# FRAMING PLAN



# **NOTES**

- 1. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS, AND SHALL BE USED FOR INFORMATION PURPOSES ONLY.
- 2. PERFORM ONLY THE WORK DESCRIBED IN THE GENERAL NOTES AND GENERAL SUMMARY.

SUPERSTRUCTURE DETAILS BRIDGE NO. GEA-C0191-02.650 OVER U.S.R. 422 ALT (0361) 2803364 CARPENTER
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TRANSVERSE SECTION

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# **NOTES**

- 1. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS, AND SHALL BE USED FOR INFORMATION PURPOSES ONLY.
- PERFORM ONLY THE WORK DESCRIBED IN THE GENERAL NOTES AND GENERAL SUMMARY.

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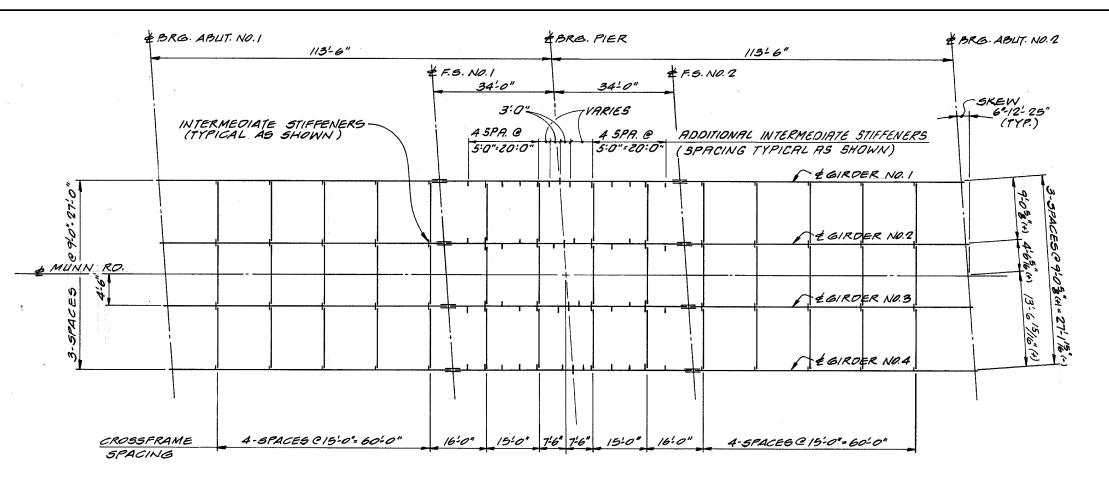
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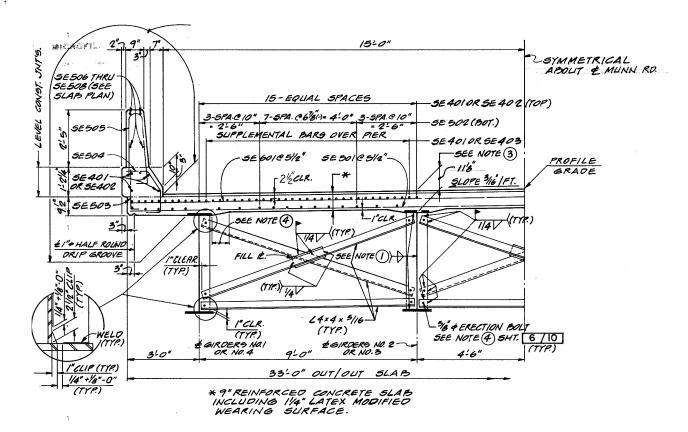
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# FRAMING PLAN



# TRANSVERSE SECTION

# **NOTES**

- 1. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS, AND SHALL BE USED FOR INFORMATION PURPOSES ONLY.
- PERFORM ONLY THE WORK DESCRIBED IN THE GENERAL NOTES AND GENERAL SUMMARY.

SUPERSTRUCTURE DETAILS BRIDGE NO. GEA-C0032-02.350 OVER U.S.R. 422 ALT (0616)

2803445
DESIGN AGENCY

WARL Literature CHECKER

MTJ ERK

REVIEWER

GDJ 6-20-21

PROJECT ID

GEA-422-1.70/VAR PAINT

1:42:38 PM USER:

GDJ 6-20-21
PROJECT ID 105251
SUBSET TOTAL

SHEET TOTAL

2 2

SHEET TOTAL

20 27

42.52 PM

GEA-422-1.70/VAR PAINT

BRIDGE NO. GEA-C0004-02.370 OVER U.S.R 422 ALT (0764) SITE PLAN

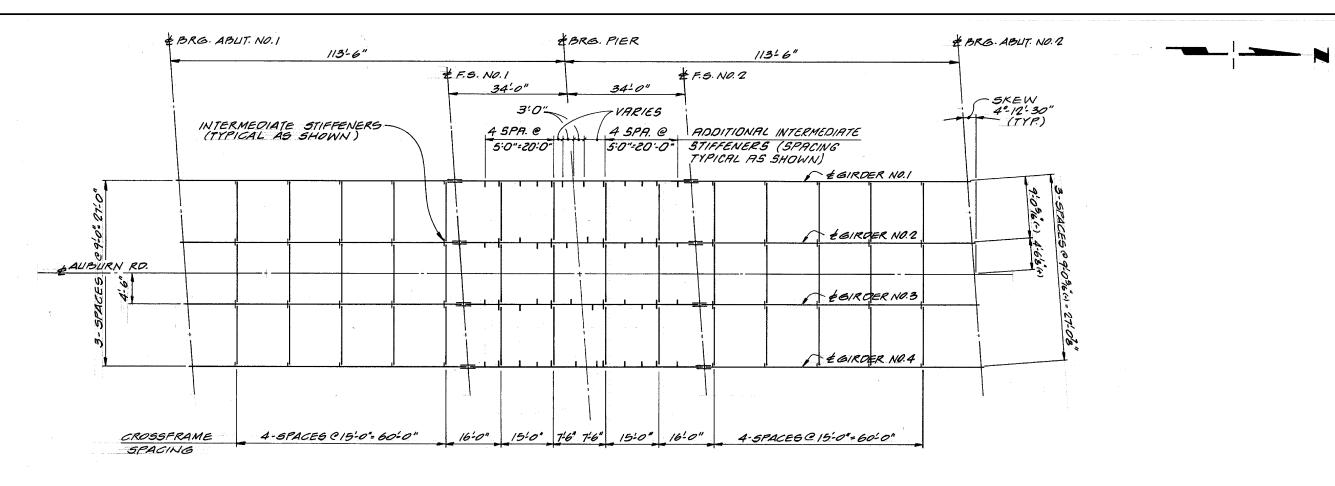
2803526

CARPENTER
MARTY masportation

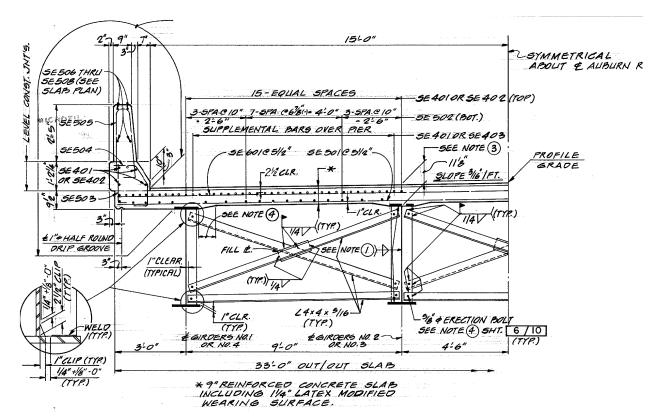
MTJ ERK GDJ 6-20-21 105251 HEET TOTAL 27

SHALL BE USED FOR INFORMATION PURPOSES ONLY.

2. PERFORM ONLY THE WORK DESCRIBED IN THE GENERAL NOTES AND GENERAL SUMMARY.



# FRAMING PLAN



# TRANSVERSE SECTION

# **NOTES**

- 1. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS, AND SHALL BE USED FOR INFORMATION PURPOSES ONLY.
- 2. PERFORM ONLY THE WORK DESCRIBED IN THE GENERAL NOTES AND GENERAL SUMMARY.

SUPERSTRUCTURE DETAILS BRIDGE NO. GEA-C0004-02.370 OVER U.S.R 422 ALT (0764) 2803526 CARPENTER
MARTY masportation

MTJ ERK

GDJ 6-20-21

105251

SHEET TOTAL 27

2

3.43.04 PM L GEA-422-1.70/VAR PAINT

GEA-422-1.70/VAR PAINT

SUPERSTRUCTURE DETAILS BRIDGE NO. GEA-00422-09.150L/R OVER S.R. 44 (RAVENNA ROAD)

2803542 2803569

CARPENTER
MARTY masportation

MTJ ERK GDJ 6-20-21 105251

SHEET 1 TOTAL **27** 

43.43 PM

GEA-422-1.70/VAR PAINT

# SITE PLAN BRIDGE NO. GEA-00422-09.860L/R OVER LA DUE RESERVOIR

AND ALL OF THE PROPERTY OF THE

ESIGNER CHECKER
MTJ ERK
REVIEWER
3DJ 6-20-21
ROJECTID
105251
SUBSET TOTAL

1 3
SHEET TOTAL
25 27

