

PRE-INSPECTION REPORT

BRIDGE NO HAM-71-0248L

(IR 71 SB OVER US 42 NB, SB RAMP, AND EDEN PARK DRIVE)

PID No. 100839



**ROUTINE & FRACTURE CRITICAL PIER CAP INSPECTION OF 3 CAPS
AND ROUTINE INSPECTION**

INSPECTION DETAILS:

Bridge No.: HAM-71-0248L
Features Intersected: Northbound US 42, Southbound IR 71 Ramp, and Eden Park Drive

Locations to Inspect: HAM-71-0248L Routine Inspection of Bridge & 3 Steel Pier Caps
Number of Inspection Days: 3
No. of Caps to Inspect: 3
Inspection Dates: July 7-9, 2019

Inspection Hours: 8:00 AM to 4:00 PM on southbound IR 71 ramp
8:00 AM to 4:00 PM on northbound US 42
8:00 AM to 4:00 PM on Eden Park Drive

Inspection Equipment: 46' Bucket Truck; Ladders

FRACTURE CRITICAL INSPECTION REQUIREMENTS:

The inspection will consist of an In-Depth "Arms-Reach" inspection, performed in accordance with the guidelines of the current FHWA National Bridge Inspection Standards for Fracture Critical Members.

To perform an effective Fracture Critical Inspection, the following tasks must be performed:

1. Determine Resource Requirements.
(Identify qualified inspection staff, use appropriate inspection access and inspection equipment).
2. Identify the Fracture Critical Members.
3. Develop the Inspection Procedure.
(Contained in this document)
4. Prepare Follow-up Procedure.
(Recommendations will be made as part of this current project)
5. Provide Quality Control/Quality Assurance for the inspection and report.
(Procedures outlined in this document)
6. Develop a Periodic Inspection Plan
(Already in place with the Ohio Department of Transportation, District 8)

BRIDGE DESCRIPTION:

Bridge HAM-71-0248L is a seven span bridge built in 1966. In spans 1 through 4 the superstructure is comprised of welded steel plate girders that frame directly into the steel pier caps. In spans 5, 6 and 7, continuous welded steel plate girders individually bear on the substructure units. The overall length of the bridge is 755'.

FRACTURE CRITICAL MEMBER LOCATIONS:

Three fracture critical pier caps are supported by concrete columns at Piers 1, 2 and 3. The caps are simply supported welded box members with cantilever ends up to 10'-6" in length. Six welded plate girders frame into the box sections. The girder webs are bolted by vertical double angles to the cap

webs. At Piers 1, 2, and 3, the top flange splice plates are bolted to the top flanges of the pier caps and of the girders on each side of the cap. At Piers 1 and 2, the bottom flange splice plates are bolted to the bottom flanges of the pier caps and of the girders on each side of the cap. At Pier 3, the bottom flange splice plates pass through the web plates of the pier cap and are bolted to the bottom flanges of the girders on each side of the cap. Refer to Appendix A for existing pier cap plans and plans for the retrofit project.



A 2011 rehabilitation project, HAM-BH-VAR, performed the following repairs on this structure:

- Cleaning and painting portions of interiors of all caps
- Removal of interior diaphragm knee braces on the caps at Piers 1 and 2
- Bolted retrofit of welded drainage bracket and lateral bracing gusset connections to the web plates of all pier caps
- Grinding of intersecting fillet welds on the web stiffeners and the cap flanges at Piers 1 and 2
- Grinding of miscellaneous tack welds on the caps at Piers 1 and 2
- Drilling and sawcutting of pressure relief holes in the web plates of the cap at Pier 3

INSPECTION METHODS & PLAN:

The Gannett Fleming Team will perform inspections of three fracture critical pier caps on HAM-71-0248L and one routine inspection of the full bridge, as defined by the Scope of Services. Two of the pier caps span over the ramp from Reading Road (US 42) to SB IR 71. The other cap spans over the northbound lanes of Reading Road. The inspection will be done during daylight hours according to closure limitations. We expect this work to take 3 days to complete. Traffic control on the IR 71 ramp and on Reading Road will be performed by A&A Safety. Traffic control details are included in Appendix B.

FIELD COORDINATION - The following staff will be involved in coordinating and performing all field work associated with the inspection of these structures.

GANNETT FLEMING – Field Team Contacts:

Dan Kent, P.E., CBI: Team Leader, Project Task Manager dkent@gfnet.com	(602) 826-1239 (C)
Vince Traini, P.E., CBI: Team Leader vtraini@gfnet.com	(614) 325-4446 (C)
Rob Parker, CBI: Team Leader rparker@gfnet.com	(614) 398-8142 (C)

ODOT (Project and Permitting Contacts) – A right of entry permit is necessary through ODOT District 8. See Appendix A. The following ODOT personnel will be contacts.

Brandon Collett: Project Manager Brandon.Collett@dot.state.oh.us	(513) 933-6643
Jeff Meyer: Assistant Structures Engineer	(513) 933-6630
Scott Kraus: District Work Zone Traffic Manager Scott.Kraus@dot.state.oh.us	(513) 933-6519
Chris Bass: Right-of-Way Use Permits Christopher.Bass@dot.state.oh.us	(513) 933-6575

CITY OF CINCINNATI (Permitting) – A right of entry permit is required through the City of Cincinnati. This permit will stipulate lane closure limitations and approve any proposed traffic control.

DOT Permit and License Center	(513) 352-3463
Anthony Bennett: ROW Permitting Anthony.Bennett@cincinnati-oh.gov	(513)-352-3405
Tom Klumb: Real Estate Tom.klumb@cincinnati-oh.gov	(513) 352-1571

A&A Safety – A&A Safety will be the traffic control subcontractor for this inspection. Refer to Appendix A for proposed maintenance of traffic schemes. Contacts are:

Don Beagle: A&A Safety donb@aaasafetyinc.com	(513) 276-2153
Ron Trabish: ront@aaasafetyinc.com	(513) 720-4630

Approved right of entry permits from ODOT and City of Cincinnati will be kept on the job site throughout the inspection period.

TRAFFIC CONTROL:

A&A Safety will be responsible for installation of traffic control devices to close lanes of northbound Reading Road (US 42) and to direct traffic around the work zones on Reading Road and the southbound IR 71 ramp. A brief description of the closures is as follows. Refer to Appendix B for sketches.

SB IR 71 RAMP – One shoulder of this one lane ramp will be closed from 8:00 AM to 4:00 PM to inspect the cap at Pier 2. We expect the closure on this ramp to last one day. See the MOT sketches in Appendix B.

NB READING ROAD (US 42) – Single lane closures from 8:00 AM to 4:00 PM will be necessary on NB Reading Road to inspect the cap at Pier 3. This work is expected to take one day. Closures will follow the MT-98 standards in the ODOT Standard Construction Drawings. See the MOT sketches in Appendix B.

EDEN PARK DRIVE – Single lane closures from 8:00AM to 4:00PM will be necessary to inspect at Pier 5. This work is expected to take less than one day. See the MOT sketches in Appendix B.

CONFINED SPACE ENTRY PROCEDURE: The inspection of HAM-71-0248R falls under the Ohio Department of Transportation Confined Space Entry Program. The procedure to be used will be Class B – Non-Permit Required Entry. This procedure states “Class B inspections are arms-length inspections performed on bridges/culverts that require no special provisions for confined space issues. An air monitor is required at all times while in the confined space.”

CS INSPECTION PLAN:

The condition inspection of the steel box girder pier caps on HAM-71-0248L will involve a 3-day field effort to completely inspect both the interior and exterior. The exterior will be inspected from a 46’ bucket truck and ladders for access and the interiors will be inspected by entering the box girder per the procedures outlined below. A 2 to 3-person inspection team will perform the confined space inspection.

Gannett Fleming will open the pier caps prior to entering to ventilate the piers. Prior to the start of the inspection, the inspection team shall meet at the site for a safety meeting and review the details of this inspection plan

Entry will be performed in accordance with complete permit-required confined space entry procedures per GF Standard Operating Procedure (SOP) #10 and 29 CFR 1910.146 (included in project HASP). This will include the use of an entry permit system, pre-entry air monitoring, continuous air monitoring, and the designation of qualified entrants, attendants, and supervisor(s). The Health and Safety Plan will outline the safety procedures and contain contact information for local EMS services and for the local Hospital.

Prior to the inspection, initial air monitoring for O₂, %LEL, CO, and H₂S will be performed by one designated certified entrant climbing the length of the steel box girder pier caps and the certified attendant documenting the readings every 25 feet. Radios will be used for team communications during the inspection. At the conclusion of the initial entry and air monitoring, the confined space air readings will be evaluated and if no hazards exist, the space will be designated a non-permit required confined space. Members of the inspection team entering the confined space will continuously monitor the air, and the attendant will document readings in the box every 30 minutes for the duration of the work inside of the confined space.

If the monitor alarms go off during the initial entrance indicating that unsafe atmospheric conditions exist, the entrant will immediately exit the steel box girder (using a 10-minute escape pack if needed). If unsafe atmospheric conditions continue to exist, further ventilation will continue and the initial air monitoring performed again at a later time after proper ventilation. A blower and generator will be used to provide proper ventilation to the box girder, if necessary. If the atmospheric hazards cannot be removed from the confined space, the box girder will NOT be entered and the District's Project Manager will be contacted to notify and to receive further instructions.

FOLLOW-UP PROCEDURES FOR INSPECTION FINDINGS:

Fracture critical inspection findings shall be documented in the final inspection report.

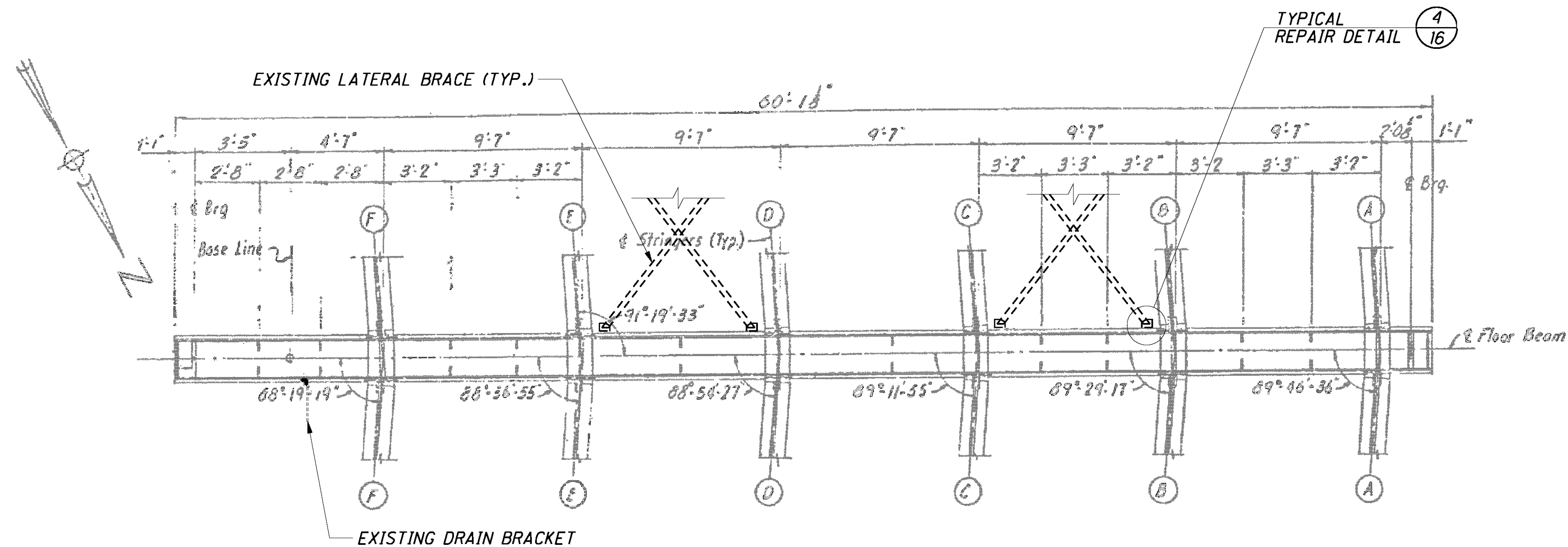
Quality Control/Quality Assurance

Gannett Fleming is ISO 9001:2015 Certified and standard operating procedures for checking and reviewing work products will be utilized throughout the inspection process. The team leaders were chosen to ensure that inspector qualifications are met. The team leaders have completed the course FHWA-NHI-130078, "Fracture Critical Inspection Techniques for Steel Bridges."

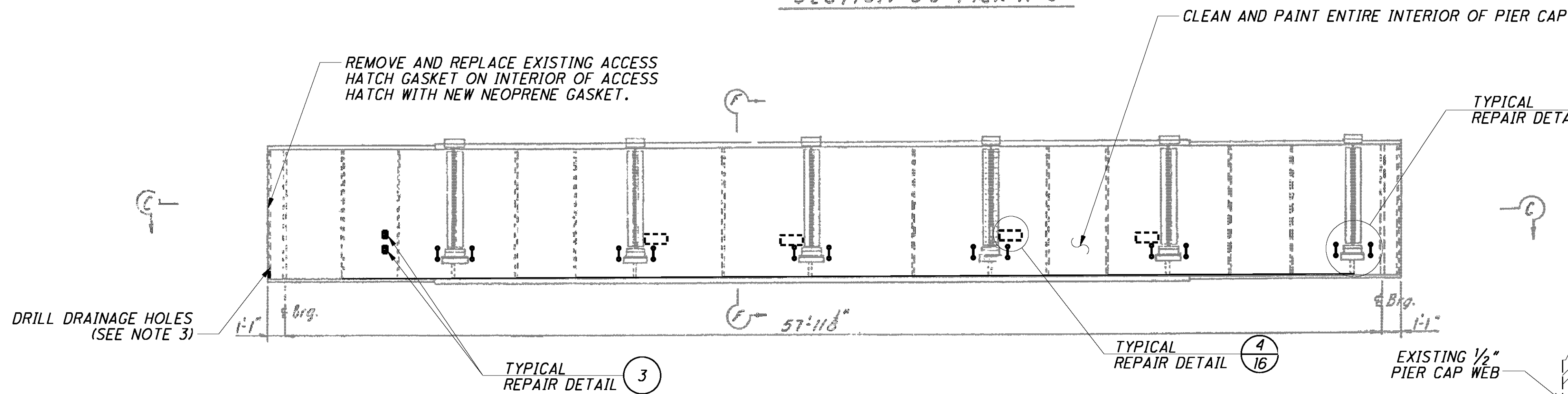
APPENDIX A

EXISTING PIER CAP PLANS

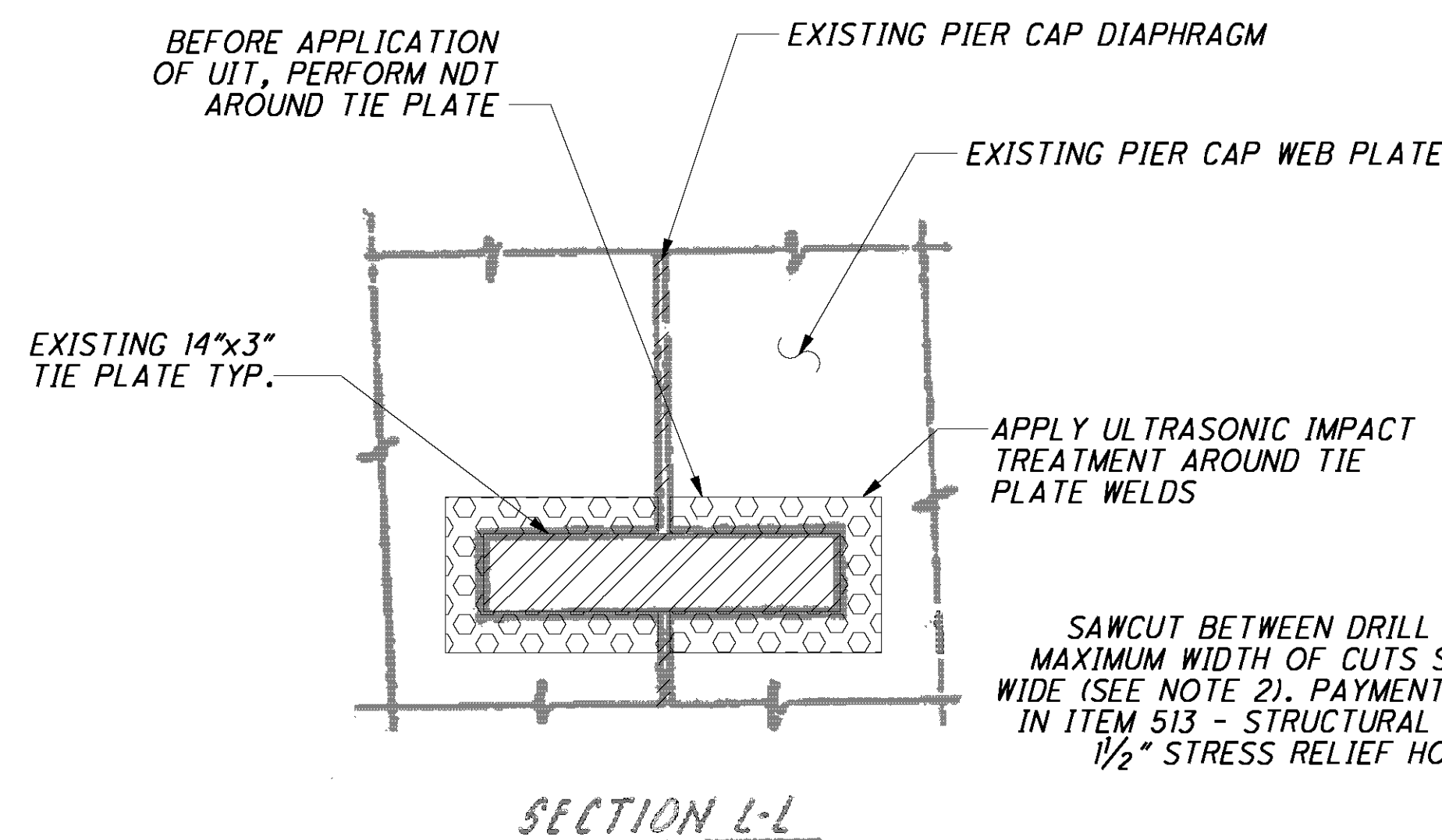
4/17/2008
P:\2426.03-ODOT 8 Pier Cap\2007 PID25374 DRAWINGS\(#5) HAM-71-02481\HAM-71-02481_P3.dgn



SECTION C-C-PIER N°3

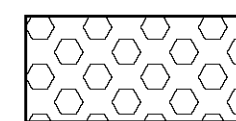


ELEVATION



SECTION L-L

REPAIR DETAIL
INTERIOR TIE PLATE TREATMENT 1

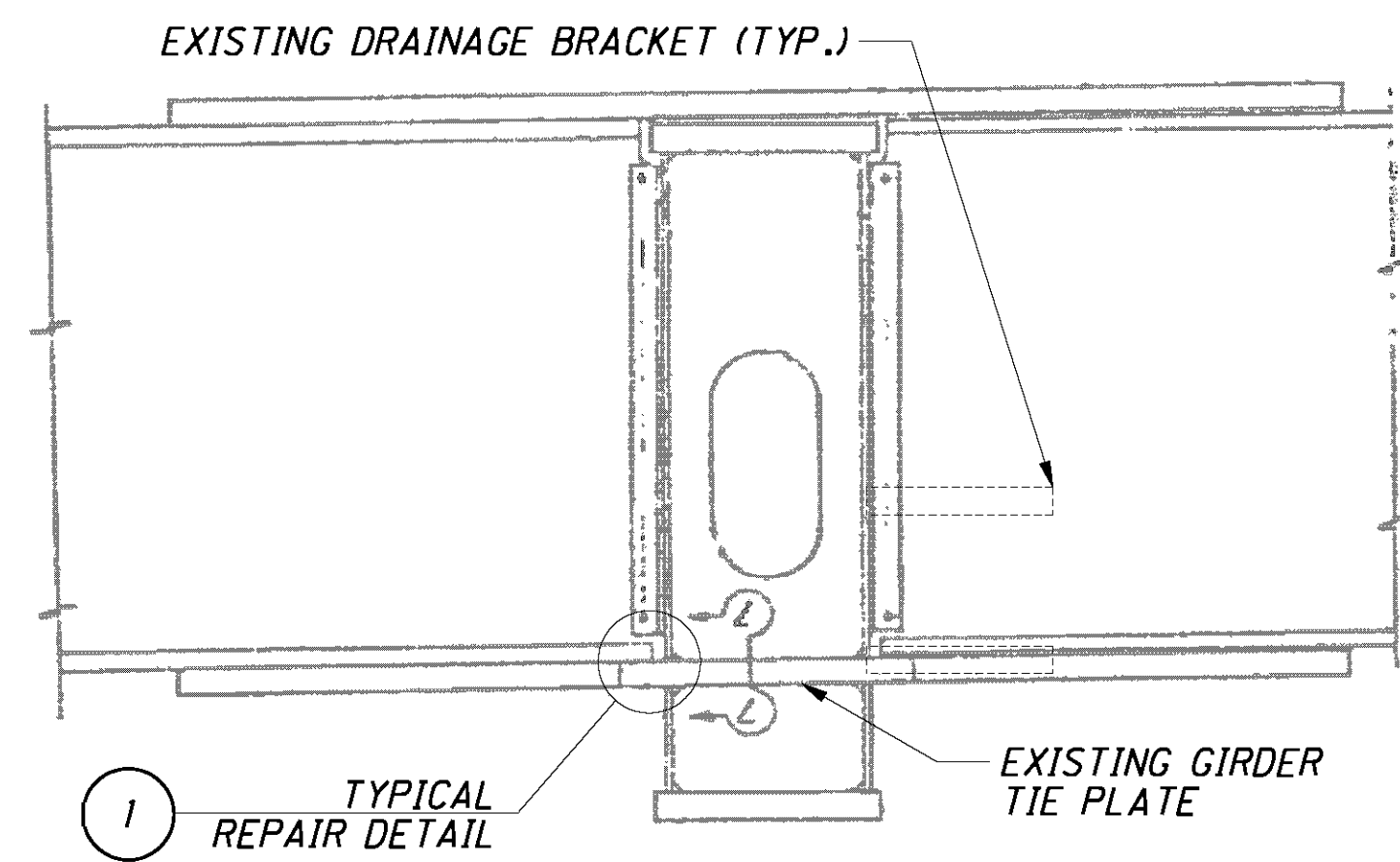


- LIMITS OF 1/2" WIDE ULTRASONIC IMPACT TREATMENT (UIT)

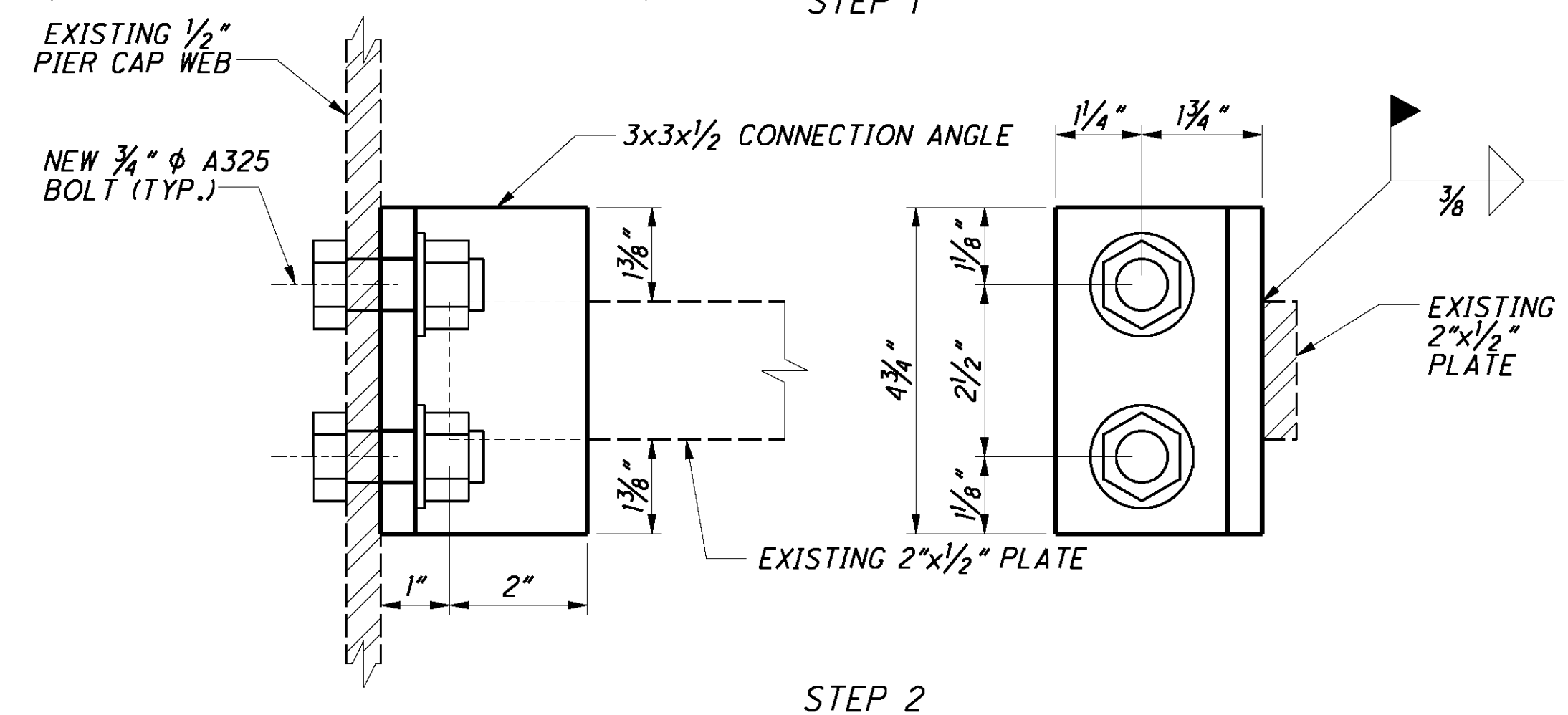
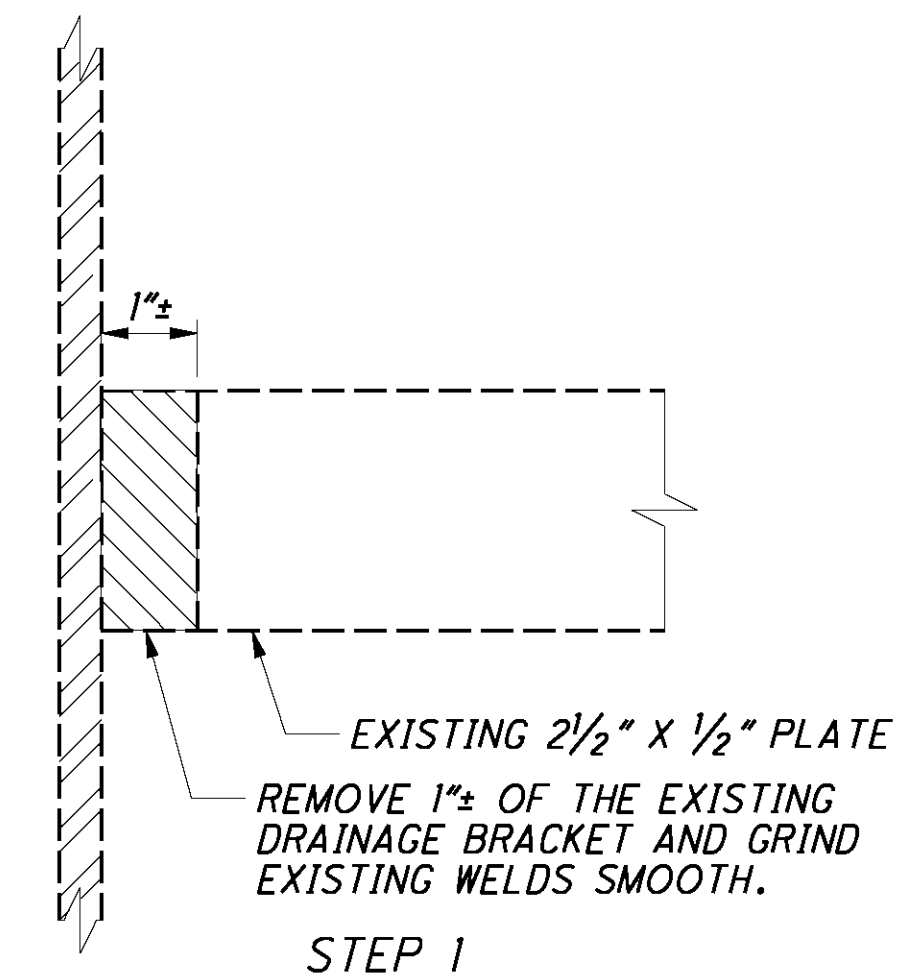
DRILL TWO 1/2" ϕ HOLES (TYP.)

REPAIR DETAIL
STRESS RELIEF HOLES 2

(FOR GIRDERS A THROUGH F AT NORTH AND SOUTH WEB PLATES)



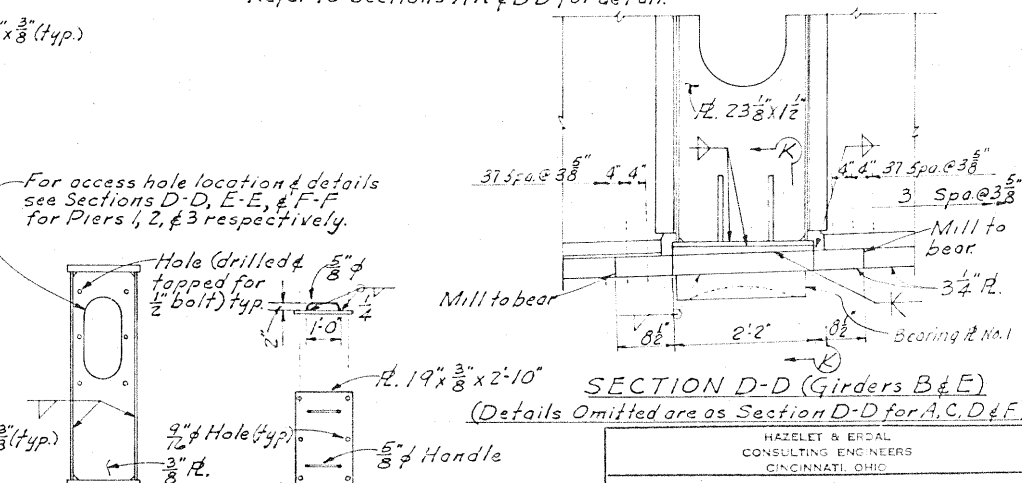
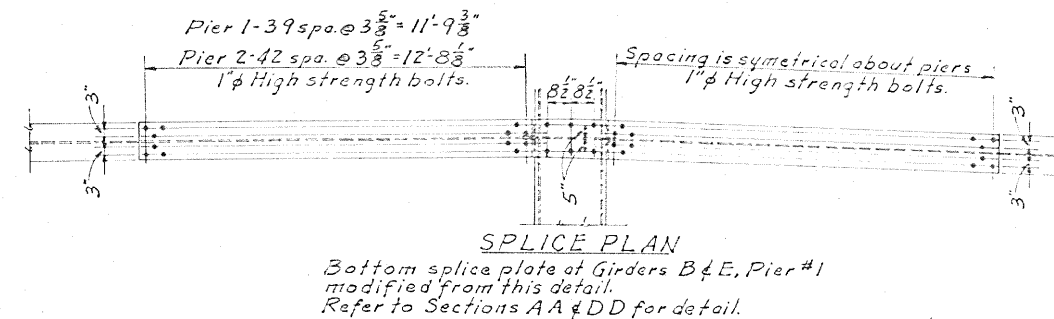
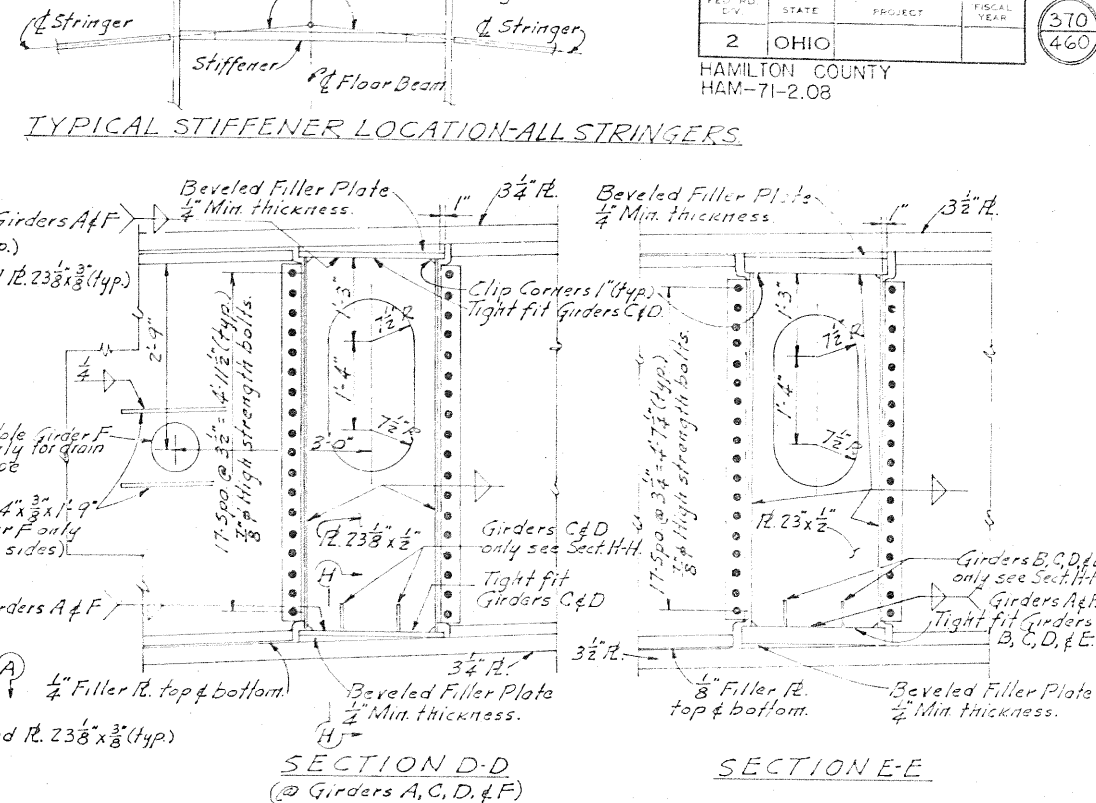
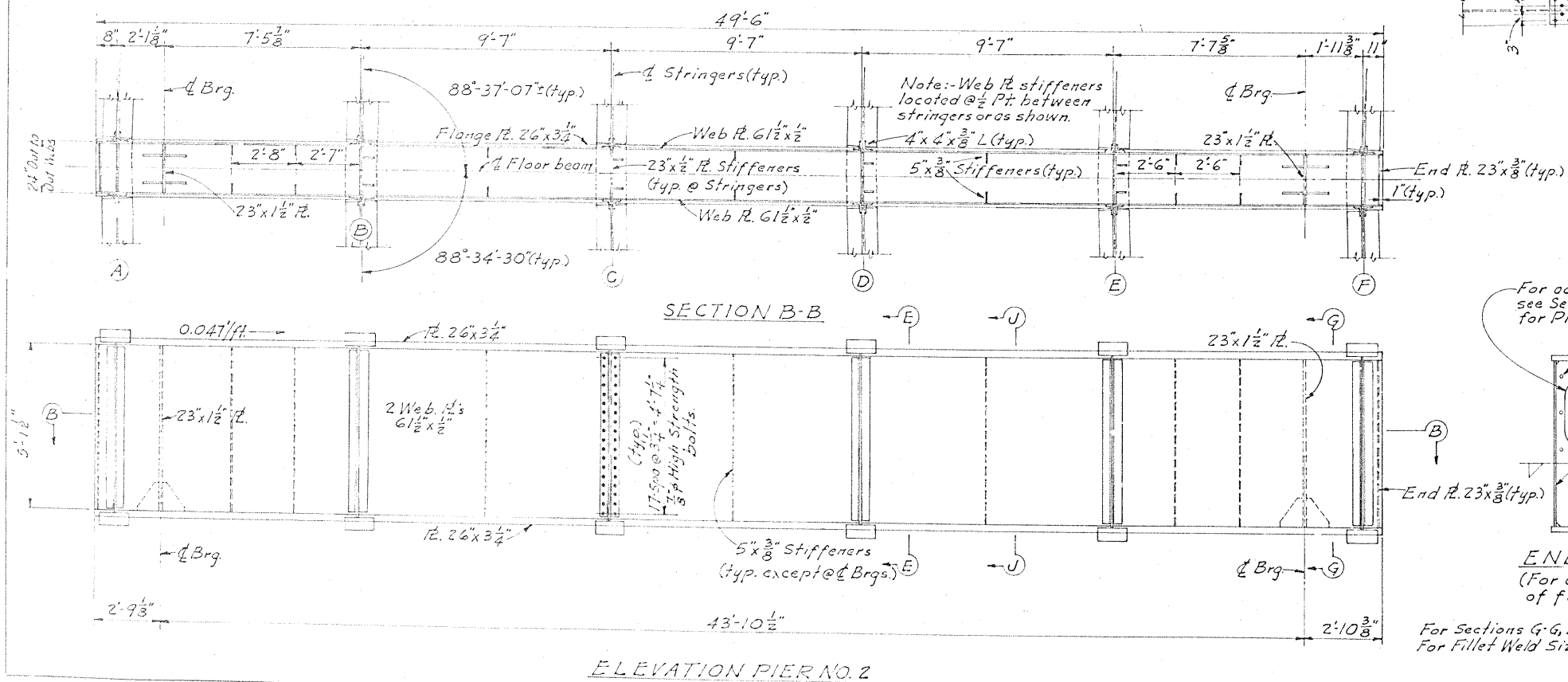
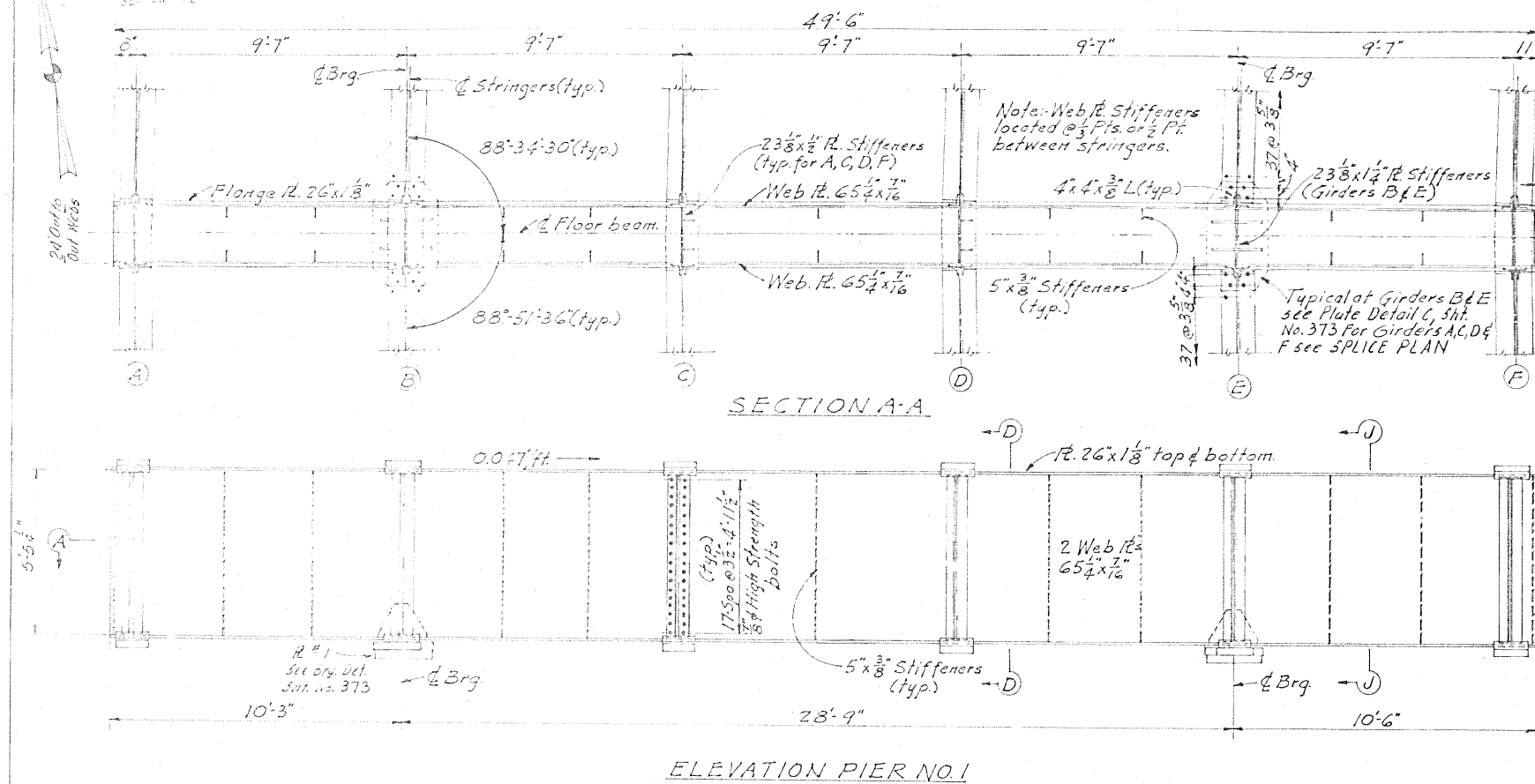
SECTION F-F



REPAIR DETAIL
DRAIN BRACKET RETROFIT 3

NOTES:

1. PIER ELEVATION AND SECTIONS C-C, F-F, AND L-L ARE TAKEN FROM THE ORIGINAL PLANS.
2. CARE SHALL BE TAKEN NOT TO OVERCUT SAWCUT BEYOND DRILLED HOLES. FLAME CUTTING IS NOT PERMITTED.
3. DRILL TWO 1/2" ϕ HOLES THROUGH THE EAST END PLATE. THE BOTTOM OF THE HOLES SHALL BE FLUSH WITH THE PIER CAP BOTTOM FLANGE. HOLES SHALL NOT PENETRATE OR GOUGE PIER CAP WEB PLATES OR FLANGE PLATE.



For Sections G-G, H-H, J-J, & K-K. See Sheet No. 371
For Fillet Weld Sizes See "Table of Fillet Weld Sizes," Sheet No. 427

SFN 3106780

STRUCTURAL STEEL DETAILS
UNIT NO. 1

BRIDGE No. HAM-71-0226

7 H&E BRIDGE No. 17

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED

CRK	RBS	LMH	ELW	JHO RHS/LS
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17

“L”

11

8.5

8.5

11

1799

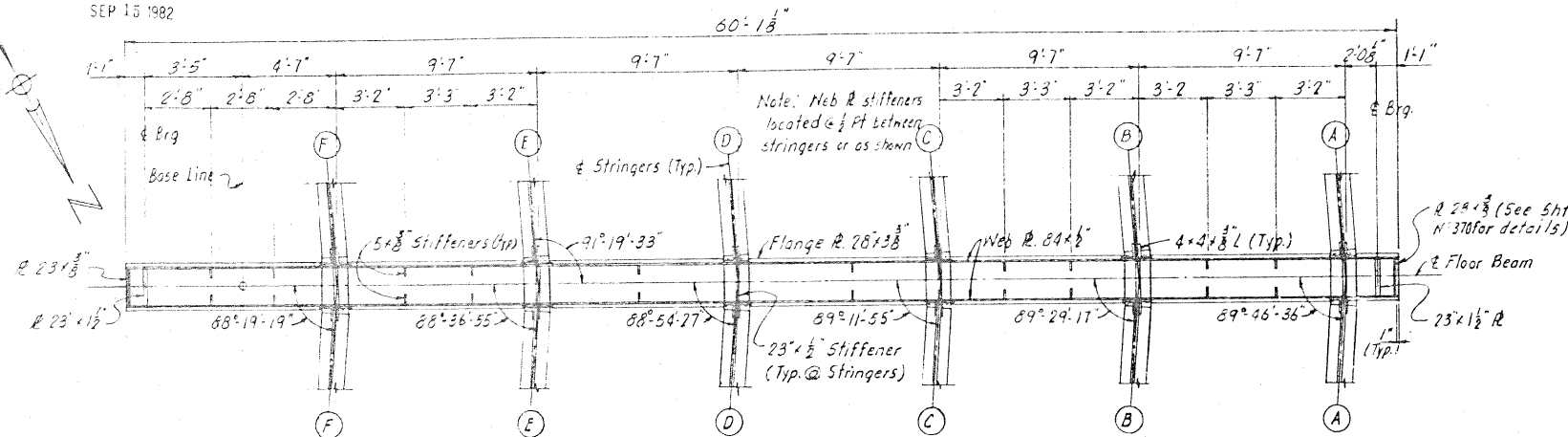
22 17

MICROFILMED
SEP 15 1982

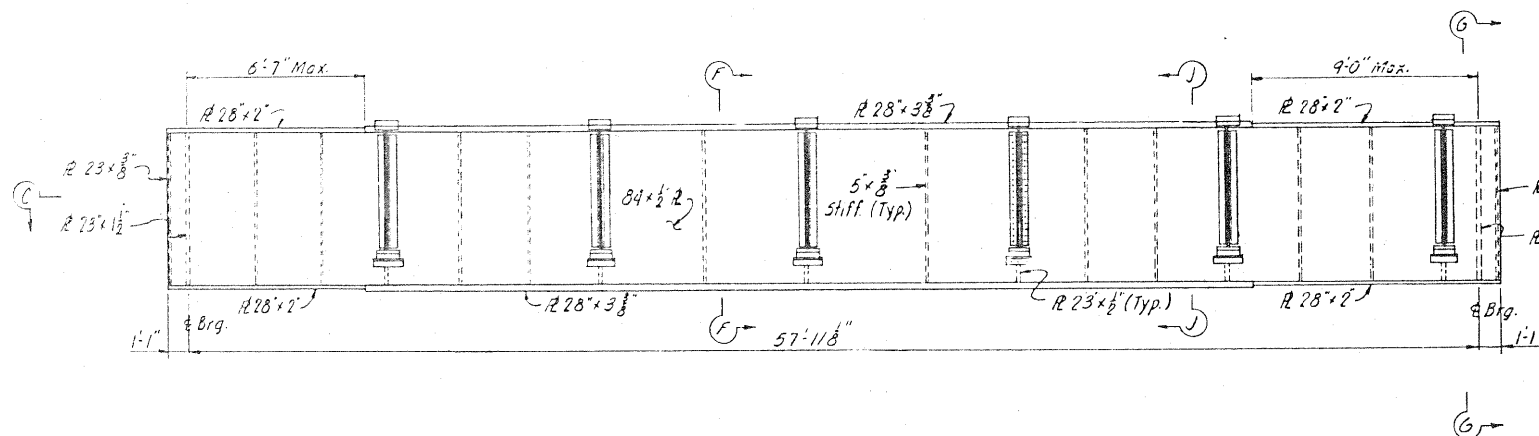
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

HAMILTON COUNTY
HAM-71-2.C8

371
460



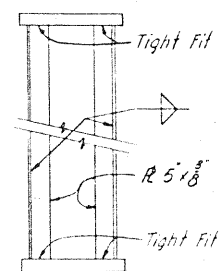
SECTION C-C-PIER N° 3



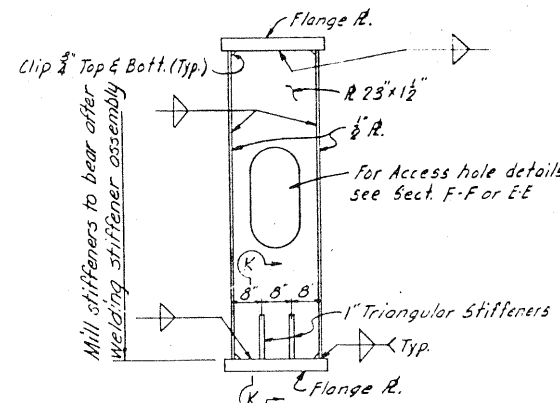
ELEVATION

notes:
Convexity includes variations due to vertical curvature, superelevation and horizontal curvature.
Girder web plates shall be cut to a parabolic crown.
Pier No. 1 has no meaningful deflections.

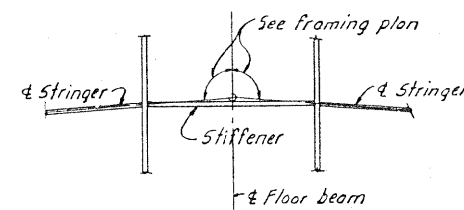
Beam	DEFLECTION and CAMBER for UNIT N° 1											
	Span 1	Span 2	Span 3	Span 4	Pier 2	Pier 3	Pier 4	Pier 5	Pier 6	Pier 7	Pier 8	Pier 9
Deflection due to weight of steel	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Deflection due to remaining dead load	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Convexity required for vertical curve	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Sum of deflections & convexity	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Required Camber	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2



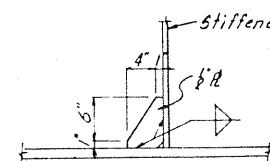
SECTION J-J
(Typ. all intermediate stiffeners)



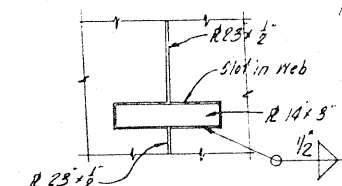
SECTION G-G
(Showing Bearing Stiffener)



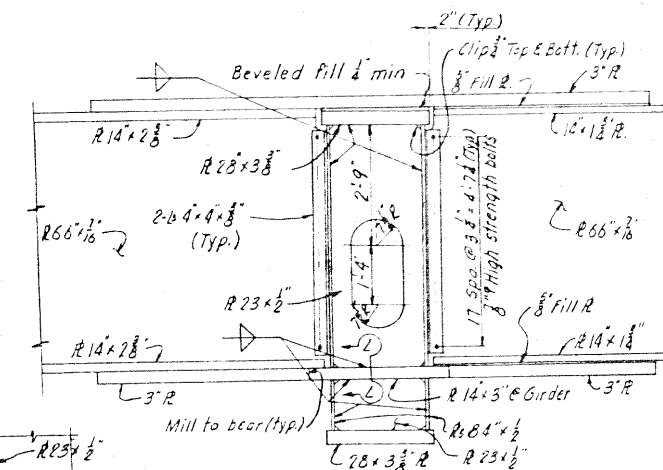
TYPICAL STIFFENER LOCATION



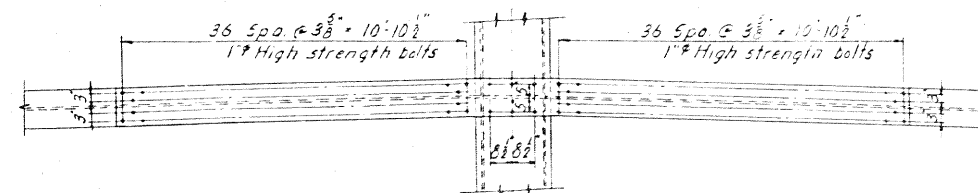
SECTION H-H
(Typ. Top & Bott.)



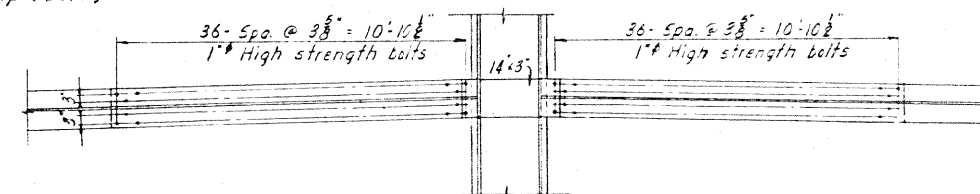
SECTION L-L



SECTION F-F

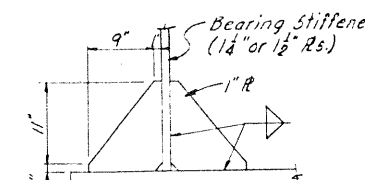


TOP SPLICE PLAN-PIER-3



BOTTOM SPLICE PLAN-PIER 3

For end view of floor beam see Sht. N° 370
For fillet weld sizes see TABLE OF FILLET WELD SIZE
Sht. N° 427



SECTION K-K

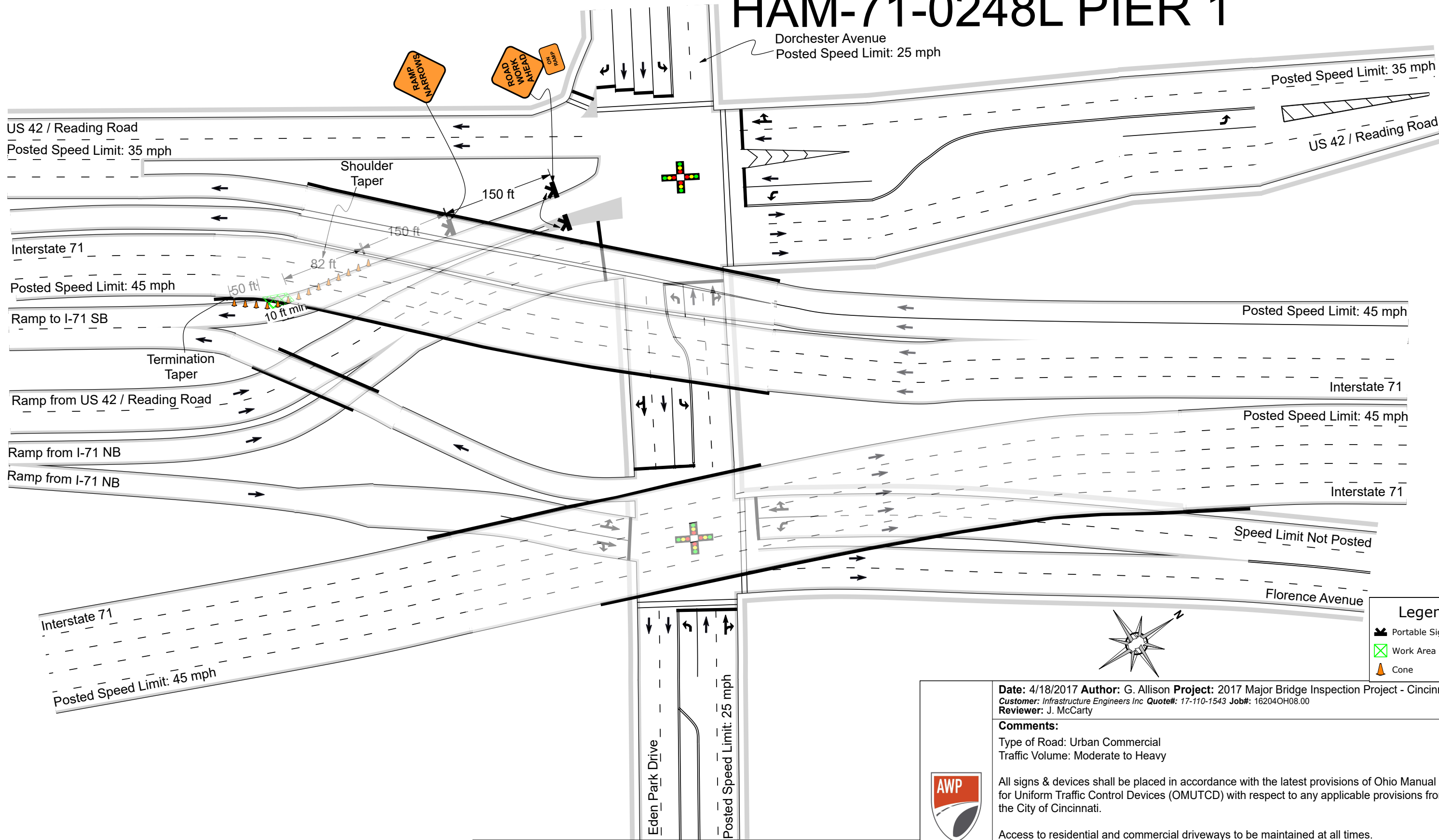
HAZELET & ERDAL CONSULTING ENGINEERS CINCINNATI, OHIO			
STRUCTURAL STEEL DETAILS UNIT NO. 1			
BRIDGE No. HAM-71-0226			
H&E BRIDGE No. 17			
DESIGNED CPK	DRAWN RLM	TRACED FLW	REVIEWED JH 8/11/65

SFN 3106780

APPENDIX B

TRAFFIC CONTROL SKETCHES

HAM-71-0248L PIER 1



Notes:
- Sign spacing adjusted to fit field conditions.
- Buffer space modified to fit field conditions.
- "Road Work Ahead" signs shall be placed on all cross streets intersecting within the work area. The signs should be placed a minimum of 100 feet in advance of the intersection.



Date: 4/18/2017 **Author:** G. Allison **Project:** 2017 Major Bridge Inspection Project - Cincinnati, OH
Customer: Infrastructure Engineers Inc **Quote#:** 17-110-1543 **Job#:** 16204OH08.00
Reviewer: J. McCarty

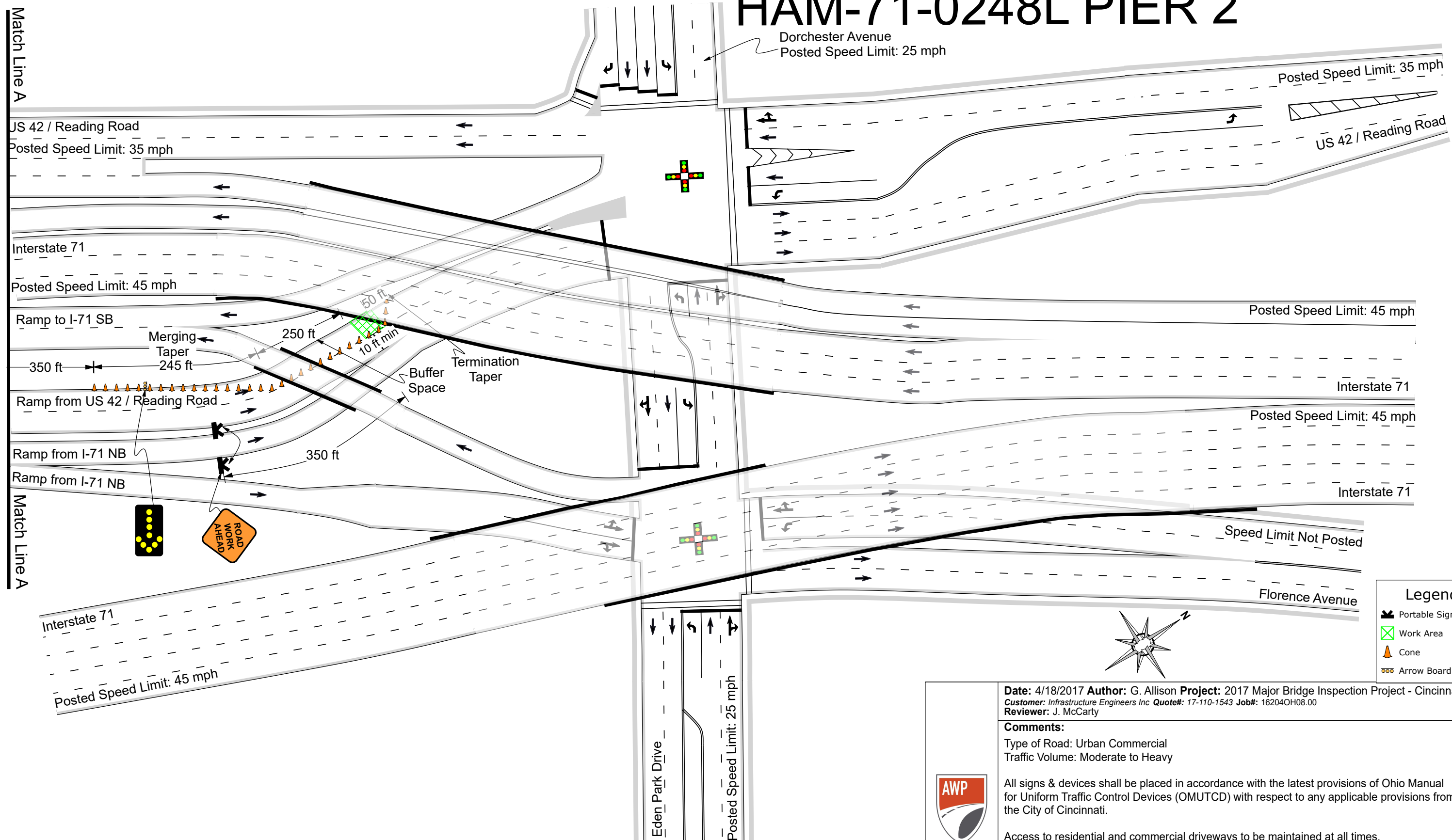
Comments:
Type of Road: Urban Commercial
Traffic Volume: Moderate to Heavy

All signs & devices shall be placed in accordance with the latest provisions of Ohio Manual for Uniform Traffic Control Devices (OMUTCD) with respect to any applicable provisions from the City of Cincinnati.

Access to residential and commercial driveways to be maintained at all times.
Flaggers shall be trained in safe temporary traffic control practices.
Flaggers shall remain in constant communications, via two-way radio, at all times.
Parking ban shall be coordinated with the Cincinnati Police Department.

PLANS ARE NOT TO SCALE

HAM-71-0248L PIER 2



Notes:

- Sign spacing and buffer space may be adjusted to fit field conditions.
- "Road Work Ahead" signs shall be placed on all cross streets intersecting within the work area. The signs should be placed a minimum of 100 feet in advance of the intersection.



Date: 4/18/2017 **Author:** G. Allison **Project:** 2017 Major Bridge Inspection Project - Cincinnati, OH
Customer: Infrastructure Engineers Inc **Quote#:** 17-110-1543 **Job#:** 16204OH08.00
Reviewer: J. McCarty

Comments:
Type of Road: Urban Commercial
Traffic Volume: Moderate to Heavy

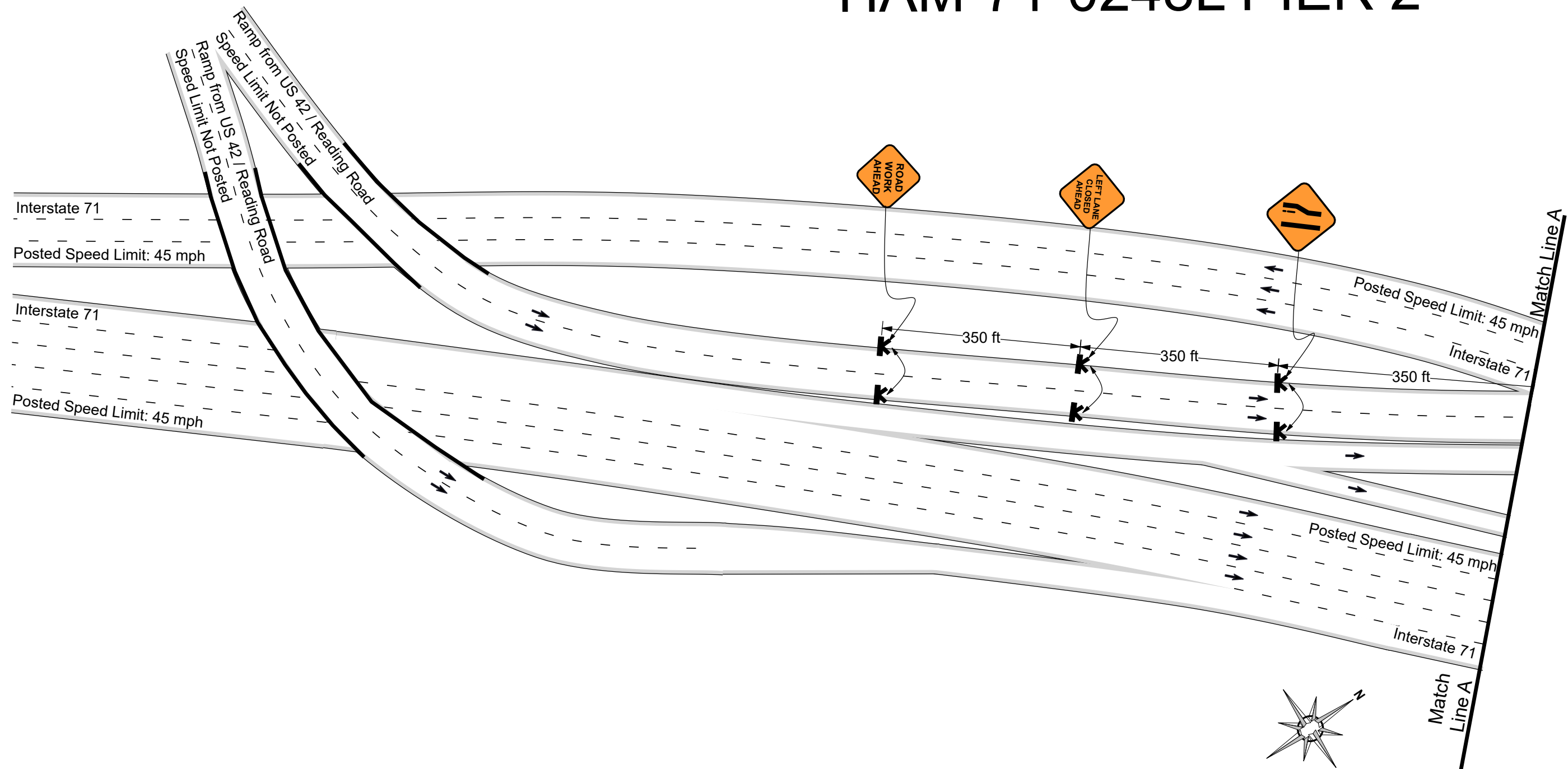
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PLANS ARE NOT TO SCALE

- Legend**
-  Portable Sign Stand
 -  Work Area
 -  Cone
 -  Arrow Board

HAM-71-0248L PIER 2



Legend

Portable Sign Stand

Date: 4/18/2017 **Author:** G. Allison **Project:** 2017 Major Bridge Inspection Project - Cincinnati, OH
Customer: Infrastructure Engineers Inc **Quote#:** 17-110-1543 **Job#:** 16204OH08.00
Reviewer: J. McCarty

Comments:

Type of Road: Urban Commercial
Traffic Volume: Moderate to Heavy

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PLANS ARE NOT TO SCALE

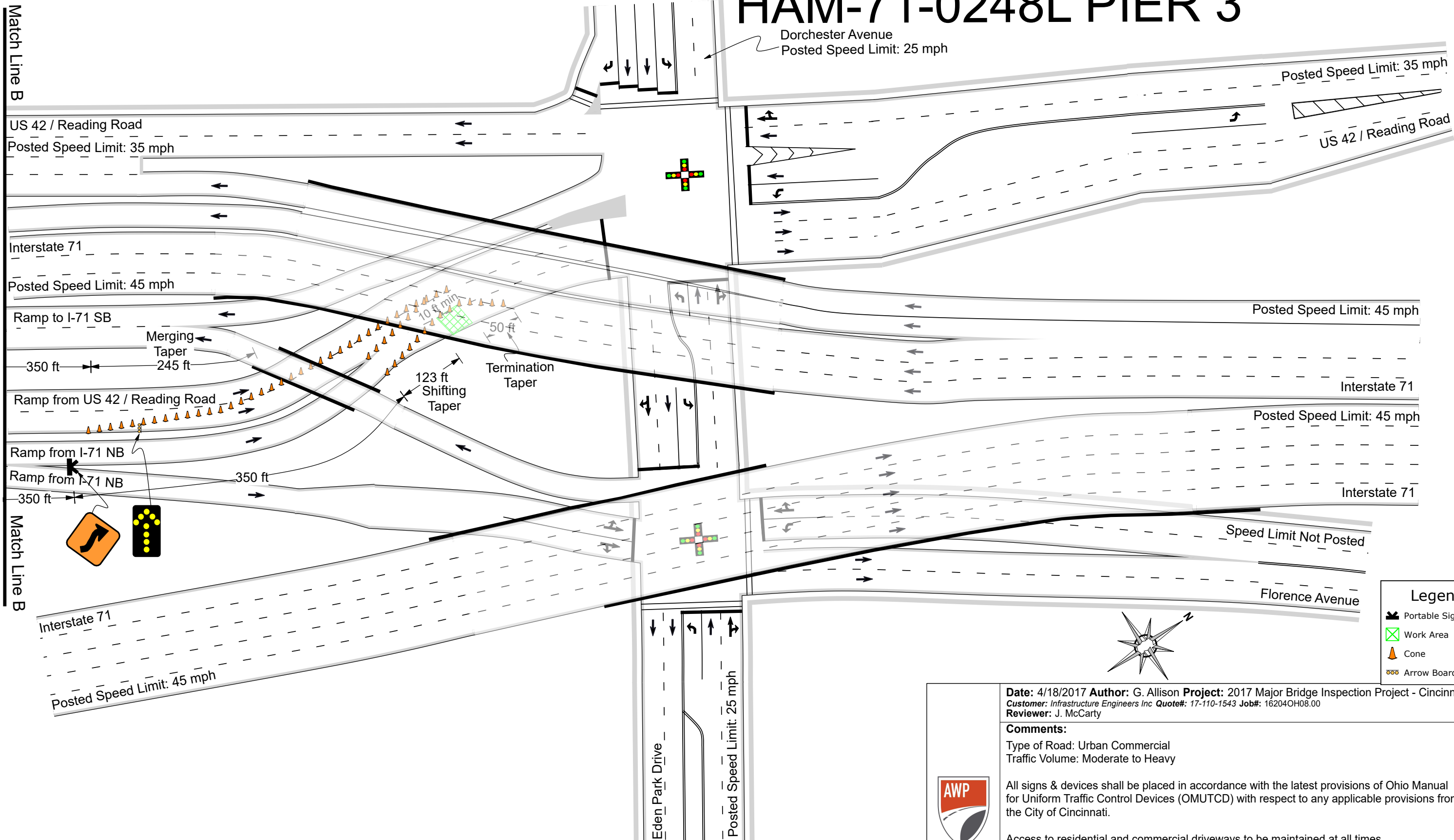
Sheet 4 of 12

Notes:

- Sign spacing and buffer space may be adjusted to fit field conditions.
- "Road Work Ahead" signs shall be placed on all cross streets intersecting within the work area. The signs should be placed a minimum of 100 feet in advance of the intersection.



HAM-71-0248L PIER 3



Notes:

- Buffer space omitted to fit field conditions.
- Sign spacing may be adjusted to fit field conditions.
- "Road Work Ahead" signs shall be placed on all cross streets intersecting within the work area. The signs should be placed a minimum of 100 feet in advance of the intersection.



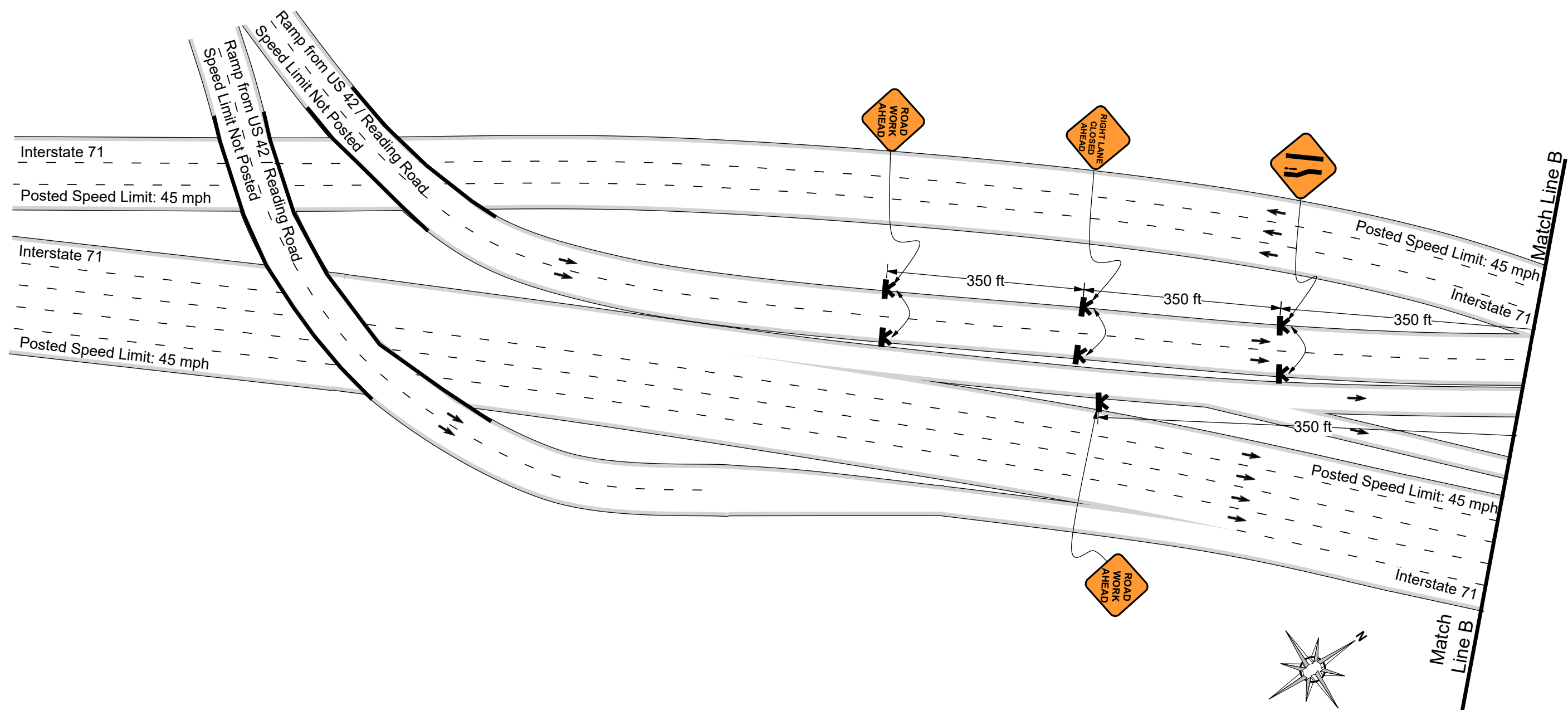
Date: 4/18/2017 **Author:** G. Allison **Project:** 2017 Major Bridge Inspection Project - Cincinnati, OH
Customer: Infrastructure Engineers Inc **Quote#:** 17-110-1543 **Job#:** 16204OH08.00
Reviewer: J. McCarty

Comments:
Type of Road: Urban Commercial
Traffic Volume: Moderate to Heavy

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HAM-71-0248L PIER 3



Legend

Portable Sign Stand

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Date: 4/18/2017 **Author:** G. Allison **Project:** 2017 Major Bridge Inspection Project - Cincinnati, OH
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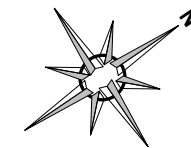
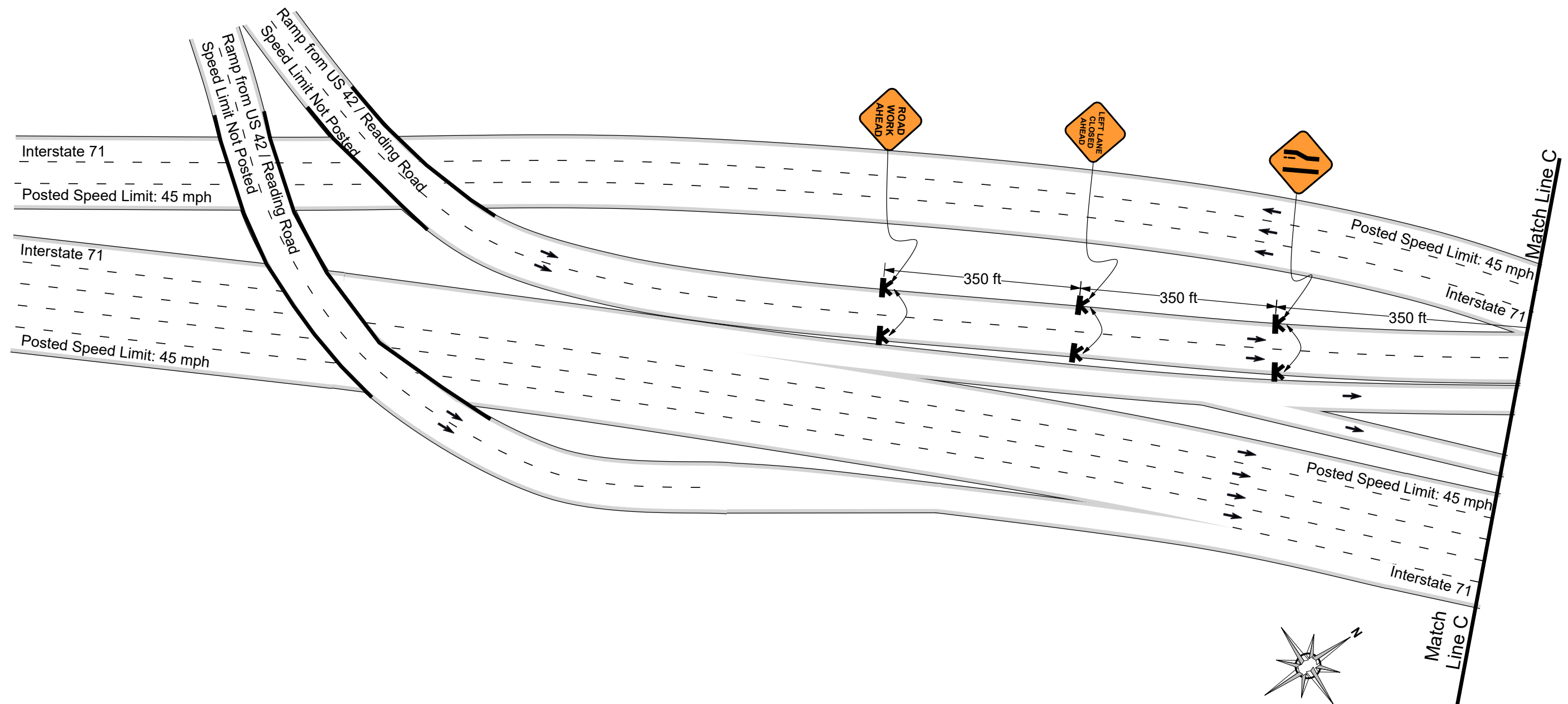
Comments:

Type of Road: Urban Commercial
Traffic Volume: Moderate to Heavy

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HAM-71-0248L PIER 3 & 4



Legend

 Portable Sign Stand

Date: 4/18/2017 **Author:** G. Allison **Project:** 2017 Major Bridge Inspection Project - Cincinnati, OH
Customer: Infrastructure Engineers Inc **Quote#:** 17-110-1543 **Job#:** 16204OH08.00
Reviewer: J. McCarty

Comments:

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Traffic Volume: Moderate to Heavy

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PLANS ARE NOT TO SCALE

Sheet 9 of 12



Notes:

- Sign spacing and buffer space may be adjusted to fit field conditions.
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APPENDIX C

RIGHT OF ENTRY PERMITS

State of Ohio
Department of Transportation
Permit

County or Jurisdiction HAM
Rte IR71
Log Pt 2.34-2.64
Acc Cat

[1] Subject to all terms, conditions, and restrictions printed, written below and on the reverse side hereof, or attached,

Name: Gannett Fleming
Address: 4151 Executive Parkway, suite 350 Columbus OH 43230
Company Phone: 602 826-1239

is hereby granted a permit under Section 5515.01 and 5515.02 of Ohio Revised Code, and permission to perform work necessary in the manner described and at the location indicated in the following or attached to this permit.

Lane Closure - (see attached sheet)

Description of Work: Bridge HAM-42-0264R, HAM-71-0248L, HAM-71-0248R, HAM-42-0257R, Ham-71-0197W & HAM-71-0159 steel pier cap inspections for 2021, in Cincinnati, Ohio.

This work will be performed between 6/7/21 & 7/20/21 allowing for delays due to weather.

Access - bucket truck with boom lift, manlift and ladders.

Reference the attached TCP plan. A&A Safety will be providing traffic control services. The work is anticipated for June 9-11, 2021. This is weather dependent and the exact day(s) could shift a day or 2 during that week for bad weather.

[2] This permit shall be in the possession of employees on site at all times who are in charge of the work and shall be shown, upon request, to any employee of the Department of Transportation.

Contact ODOT Representative 3 days before work begins, also contact ODOT Representative when work is completed for final inspection. **Failure to notify the ODOT Representative could result in work stoppage!**

[3] No work authorized by this permit shall begin until the permittee has contacted and received instructions from

ODOT Representative-John Walsh
Phone (513)933-6580
Email Address: john.walsh@dot.ohio.gov
(Authorized ODOT Employee)

NOTE: Any work performed by the permittee may be stopped if this requirement is not met.

[4] Prior to any excavation in the highway right-of-way, the Ohio811, <https://www.oups.org/excavators>, must be contacted in accordance with ORC Section 3781.25 to 3781.32. Ohio811 can be reached at 1-800-362-2764 or 811.

[5] If your utility is above ground in any way, you must mark your utility with a fluorescent colored marker that corresponds with the universal OUPS color code. The marker must be no shorter than six feet in height and you must maintain the marker. Guide wires must be marked a fluorescent yellow. Failure to do so will result in no reimbursement for damage to your property.

[6] All work requiring men or vehicles within ODOT right of way shall comply with all applicable requirements of the Ohio Manual of Traffic Control Devices and Item 614 (Maintaining Traffic) of the Construction and Material Specifications, latest editions. Failure to comply with these requirements will be cause for immediate revocation or suspension of the permit until the proper traffic control devices have been provided.

[7] The permittee accepts the conditions, terms, and requirements printed, written on, or attached to this permit and understands that failure to comply fully with those conditions, terms, and requirements or any change in the use of the permit inconsistent with its terms and conditions will be considered a violation and cause for suspension, revocation, or annulment of the permit

thereby rendering the permit illegal and subject to appropriate Department action, up to and including removal of the installation at the permittee's expense.

[8] Performance Bond Required? _____ Yes _____ No Company _____
Effective Date _____ Expiration Date _____ Amount \$ _____

[9] This permit shall be void if the work described herein does not comply with the conditions, terms, and requirements applicable to this permit, and if the work is not completed by 10/28/2021

Dated 04/27/2021

Rev 8/3/2020

(See Other Side)

**General Provisions Applicable to All Permits
(Sections 5515.01 and 5515.02 of O.R.C.)**

- [1] This permit is not a substitute for satisfying the rights or obligations of any other party who may have an interest in the underlying fee interest.
- [2] The granting of this permit does not convey to the permittee or to the property served any rights, title, or interest in state highway rights of way or in the design or operation of the state highway; or in any way abridge the right of the Director of the Department of Transportation in his jurisdiction over state highways. If, in the process of any future work or for the benefit of the traveling public, it becomes necessary, in the opinion of the Director of Transportation to order the removal, reconstruction, relocation, or repair of any of the fixtures, or work performed under this permit, said removal, reconstruction, relocation, or repair shall be wholly at the expense of the owners thereof or the permittee and be made as directed by the Director of Transportation. Such changes in the state highway design or operation, necessary for improved safety and operation or for the benefit of the traveling public, shall not require a permit modification since the permit confers no private rights to the permittee over the control of the state highway.
- [3] The District Deputy Director acts for and on behalf of the Director in issuing and carrying out the provisions of all permits. The District Deputy Director has full authority to ensure that all provisions of the permit are met and to reject any materials, design, and workmanship that do not meet applicable Department standards. The District Deputy Director, at his/her discretion, may require a performance bond or certified check as a prerequisite to the issuance of a permit.
- [4] Failure on the part of the permittee to comply fully with the provisions and conditions of the permit will be cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Departmental action. By accepting the permit, the permittee agrees to comply with all conditions, terms, and restrictions printed or written on or attached to the permit. If the permittee performs any work contrary to the conditions of the permit or to the instructions of the District Deputy Director and, after due notice, fails to correct the problem, the Department of Transportation may, with or without notice, correct such work and the permittee shall reimburse the Department for the costs.
- [5] The permittee shall indemnify and hold harmless the State of Ohio, Department of Transportation, its officers, representatives and assigns, from any and all loss, liability, damages, litigation costs, and claims for injury or death to any person, property, or business caused by or resulting from any act, omission, event, consequence, or occurrence, negligent or otherwise of the permittee, his employees, or assigns as a result of the issuance of this permit.
- [6] All work authorized under the permit shall be performed to the Department's satisfaction, and the entire expense shall be borne by the permittee. No work shall be performed until the permittee has contacted the Department's appointed representative named on the permit and received instructions. The Department's representative may inspect all work covered by the permit, or the Department reserves the right, during the time any or all of the work is being performed, to appoint an inspector over the work who shall represent the interest of the State on the work and any compensation arranged for shall be paid wholly by the permit holder. Work not in compliance shall be halted and the District Deputy Director shall be notified of the cause. The permittee shall be notified of the Department's action and its causes, and given an opportunity to correct the problem.
- [7] Failure to complete all work within the time specified on the permit shall void the permit, thereby making the permit illegal and subject to appropriate Departmental action. The permittee may request an extension in writing from the District Office, explaining why the extension is necessary and when the work is expected to be completed.
- [8] All work infringing on the pavement or shoulders shall comply with applicable standards and requirements regarding traffic control devices. Failure to comply will be cause for revocation or suspension of the permit. Any closure of lanes or shoulders shall be described in terms of location, duration, time of day, etc. Such work shall not begin until all traffic control devices are in place.
- [9] If any grading, sidewalk, or other work allowed by a permit interferes with the drainage of the highway in any way, such catch basins and outlets as necessary shall be constructed to take proper care of said drainage.

[10] Upon completion of the work, the permittee shall leave the highway clean of all rubbish, excess materials, temporary structures and equipment, and all parts of the highway shall be left in a condition acceptable to the Department. Upon satisfactory completion of the work authorized by the permit, the Department's appointed representative shall complete the Permit Inspection Certificate, Form No. MR 678 certifying that the permittee has complied with the terms of the permit.

[11] Except as herein authorized, no excavation shall be made or obstacle placed within the limits of the highway so as to interfere with the travel over the road.

[12] All pole lines are to be built in accordance with Rule 4901:3-1-08 of Ohio Administrative Code promulgated and enforced by the Public Utilities Commission of Ohio.

[13] The permittee shall comply with the Air Pollution requirements of Rule 3745-17-08 of the Ohio Administrative Code promulgated and enforced by the Ohio Environmental Protection Agency.

[14] The permittee certifies that he or she is fully authorized to sign this permit. This permit shall apply to and be binding upon the permittee and his/her successors in interest. No change in ownership of the underlying property or of the facility owned by permittee shall in any way alter the permittee's obligations under this permit.

[15] The permittee(s) for herself/himself/themselves/itself, her/his/their/its personal representatives, and her/his/their/its successors in interest and assigns, as a part of the consideration hereof, do/does hereby covenant and agree that:

(1) No person on the grounds of race, color, national origin, sex, age, or disability shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of the above described property.

(2) In the construction of any improvements on, over, or under the above described property and the furnishing of services thereon, no person on the grounds of race, color, national origin, sex, age, or disability shall be excluded from the participation in, be denied the benefits of, or be otherwise subjected to discrimination.

(3) The above described property shall be used in a manner that at all times is in compliance with all other requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. DOT, Subtitle A, Office of the Secretary, Part 21, Non-discrimination in Federally-assisted programs of the U.S. DOT — Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations may be amended.

(4) In the event that this instrument grants a lease, license, or permit and any of the above non-discrimination covenants is breached, then the State of Ohio, Department of Transportation, shall have the unfettered right to terminate the lease, license or permit and to re-enter and repossess the above-described property and hold the same as if said lease, license or permit had never been made or issued.

(5) In the event that this instrument grants a fee or easement interest and any of the above non-discrimination covenants is breached, the State of Ohio, Department of Transportation, shall have the unfettered right to re-enter the above described property, and said property will thereupon revert to and vest in and become the absolute property of the State of Ohio and its successors and assigns for the use and benefit of the Department of Transportation.

(6) In the event that this instrument grants a lease, fee or easement interest, all of the foregoing non-discrimination covenants shall be and are covenants running with the land.

This permit is granted subject to the following attached conditions:

******NO DEVIATION OF APPROVED MOT WITHOUT TRAFFIC ENGINEERS CONSENT******

June 9-11, 2021, 3 caps and routine, 3 days

HAM-42-0264R

HAM-71-0248L

June 7-9, 2021, 3 caps, routine, 3 days

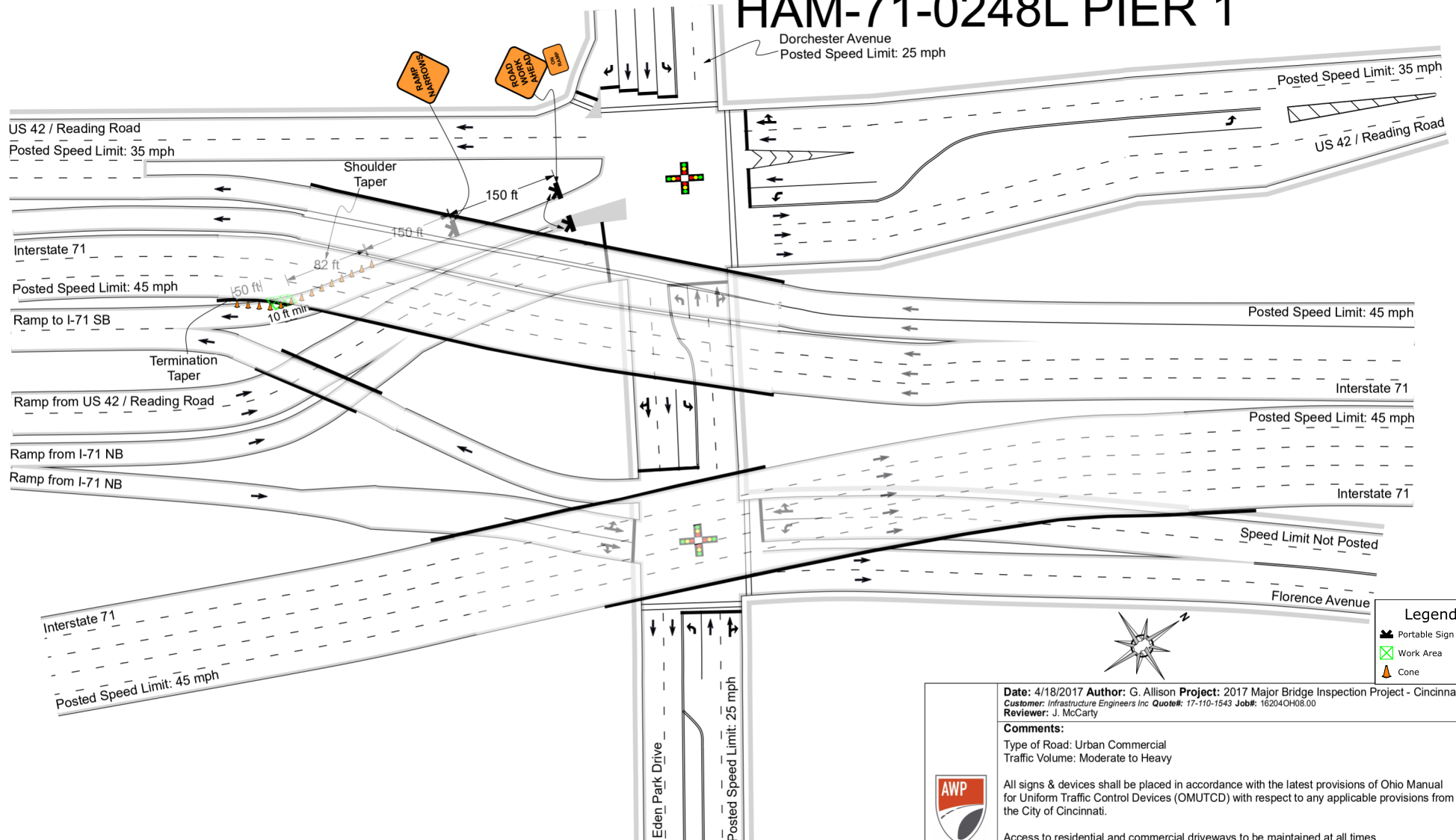
June 14-16, 17?, 2021, 4 caps, 3 days

HAM-71-0248R

HAM-42-0257R

June 16, 1 cap, interior day, exterior night, 1 day/night (June 9-10 exterior? with other pattern for 0264R or 0248L?)

HAM-71-0248L PIER 1



Notes:

- Sign spacing adjusted to fit field conditions.
- Buffer space modified to fit field conditions.
- "Road Work Ahead" signs shall be placed on all cross streets intersecting within the work area. The signs should be placed a minimum of 100 feet in advance of the intersection.

Date: 4/18/2017 **Author:** G. Allison **Project:** 2017 Major Bridge Inspection Project - Cincinnati, OH
Customer: Infrastructure Engineers Inc **Quote#:** 17-110-1543 **Job#:** 16204OH08.00
Reviewer: J. McCarty

Comments:

Type of Road: Urban Commercial
 Traffic Volume: Moderate to Heavy

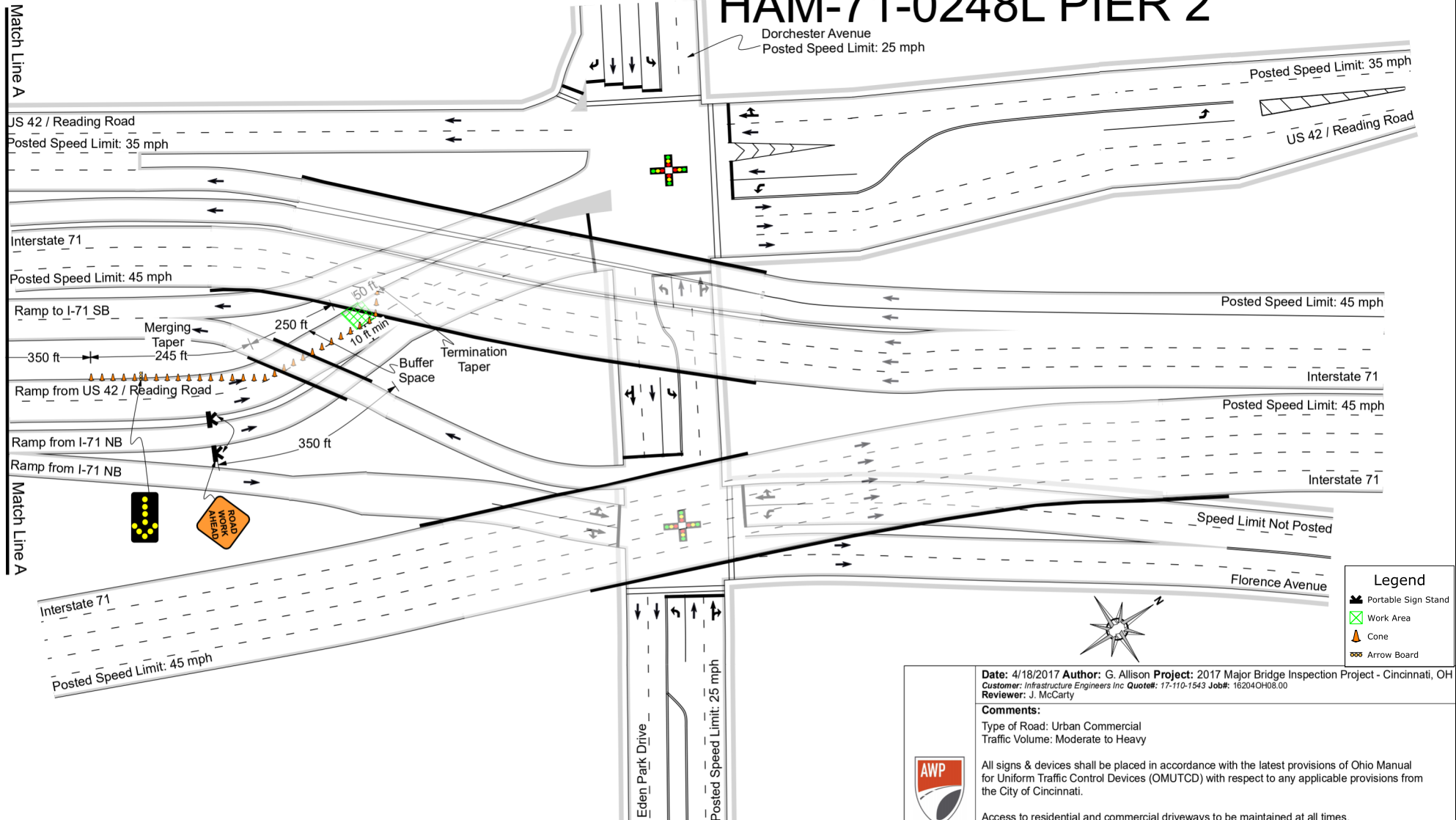
All signs & devices shall be placed in accordance with the latest provisions of Ohio Manual for Uniform Traffic Control Devices (OMUTCD) with respect to any applicable provisions from the City of Cincinnati.

Access to residential and commercial driveways to be maintained at all times.
 Flaggers shall be trained in safe temporary traffic control practices.
 Flaggers shall remain in constant communications, via two-way radio, at all times.
 Parking ban shall be coordinated with the Cincinnati Police Department.

PLANS ARE NOT TO SCALE

Sheet 2 of 12

HAM-71-0248L PIER 2



Notes:

- Sign spacing and buffer space may be adjusted to fit field conditions.
- "Road Work Ahead" signs shall be placed on all cross streets intersecting within the work area. The signs should be placed a minimum of 100 feet in advance of the intersection.

Date: 4/18/2017 **Author:** G. Allison **Project:** 2017 Major Bridge Inspection Project - Cincinnati, OH
Customer: Infrastructure Engineers Inc **Quote#:** 17-110-1543 **Job#:** 16204OH08.00
Reviewer: J. McCarty

Comments:
 Type of Road: Urban Commercial
 Traffic Volume: Moderate to Heavy

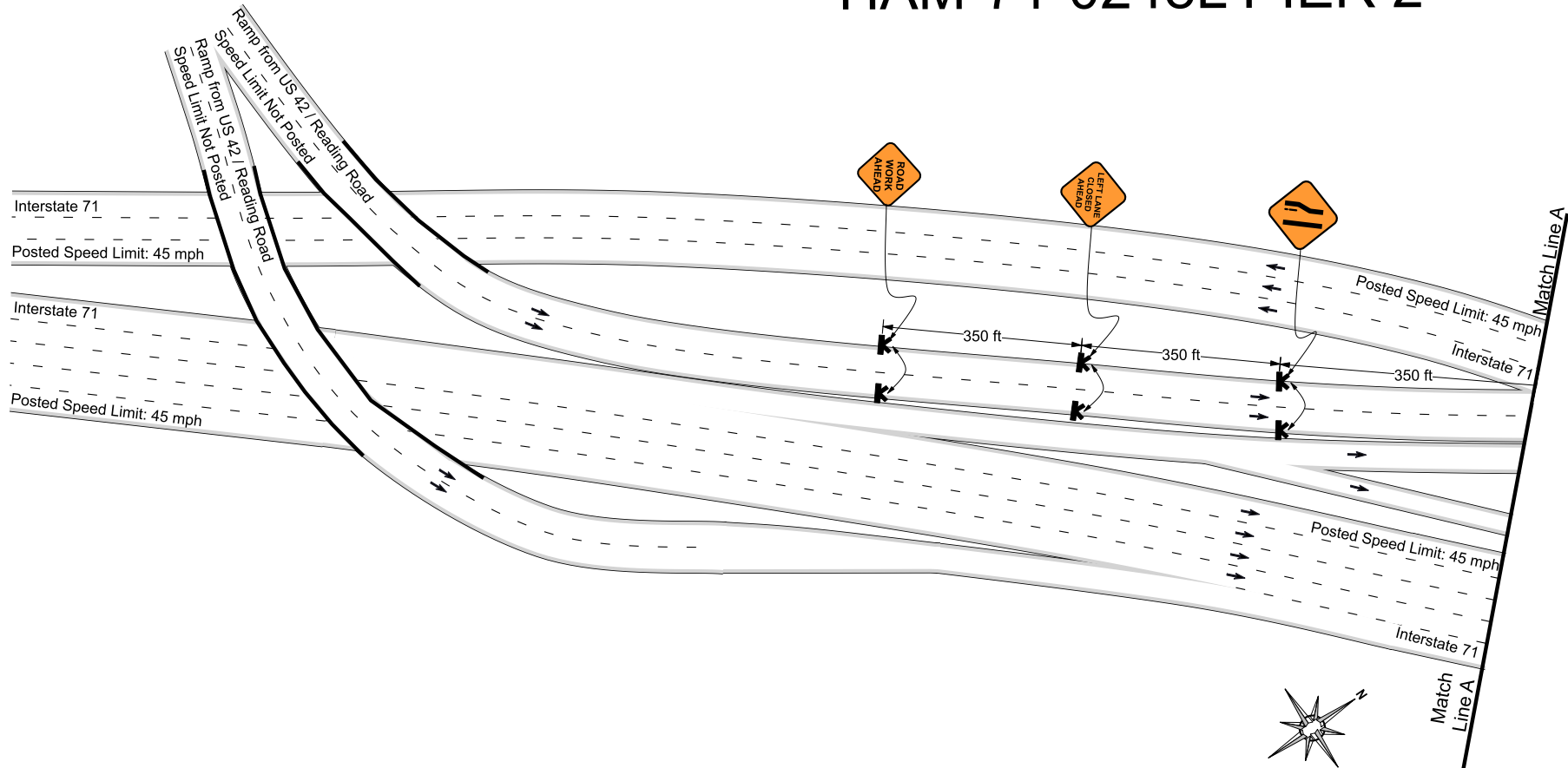
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PLANS ARE NOT TO SCALE

Sheet 3 of 12

HAM-71-0248L PIER 2



Notes:

- Sign spacing and buffer space may be adjusted to fit field conditions.
- "Road Work Ahead" signs shall be placed on all cross streets intersecting within the work area. The signs should be placed a minimum of 100 feet in advance of the intersection.

Legend

Portable Sign Stand

Date: 4/18/2017 **Author:** G. Allison **Project:** 2017 Major Bridge Inspection Project - Cincinnati, OH
Customer: Infrastructure Engineers Inc **Quote#:** 17-110-1543 **Job#:** 16204OH08.00
Reviewer: J. McCarty

Comments:

Type of Road: Urban Commercial
 Traffic Volume: Moderate to Heavy

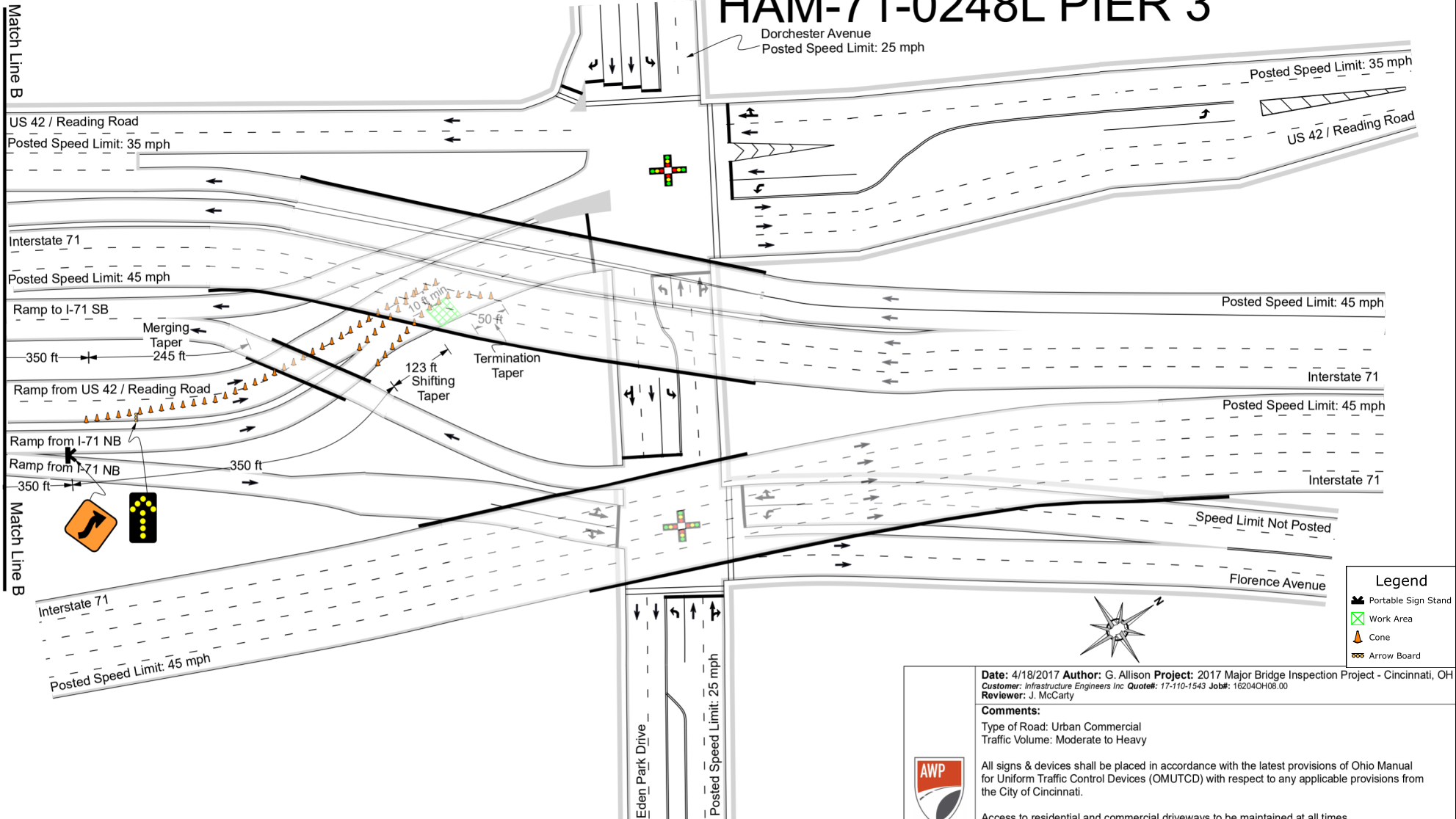
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PLANS ARE NOT TO SCALE

Sheet 4 of 12

HAM-71-0248L PIER 3



Notes:

- Buffer space omitted to fit field conditions.
- Sign spacing may be adjusted to fit field conditions.
- "Road Work Ahead" signs shall be placed on all cross streets intersecting within the work area. The signs should be placed a minimum of 100 feet in advance of the intersection.

Date: 4/18/2017 **Author:** G. Allison **Project:** 2017 Major Bridge Inspection Project - Cincinnati, OH
Customer: Infrastructure Engineers Inc **Quote#:** 17-110-1543 **Job#:** 16204OH08.00
Reviewer: J. McCarty

Comments:

Type of Road: Urban Commercial
 Traffic Volume: Moderate to Heavy

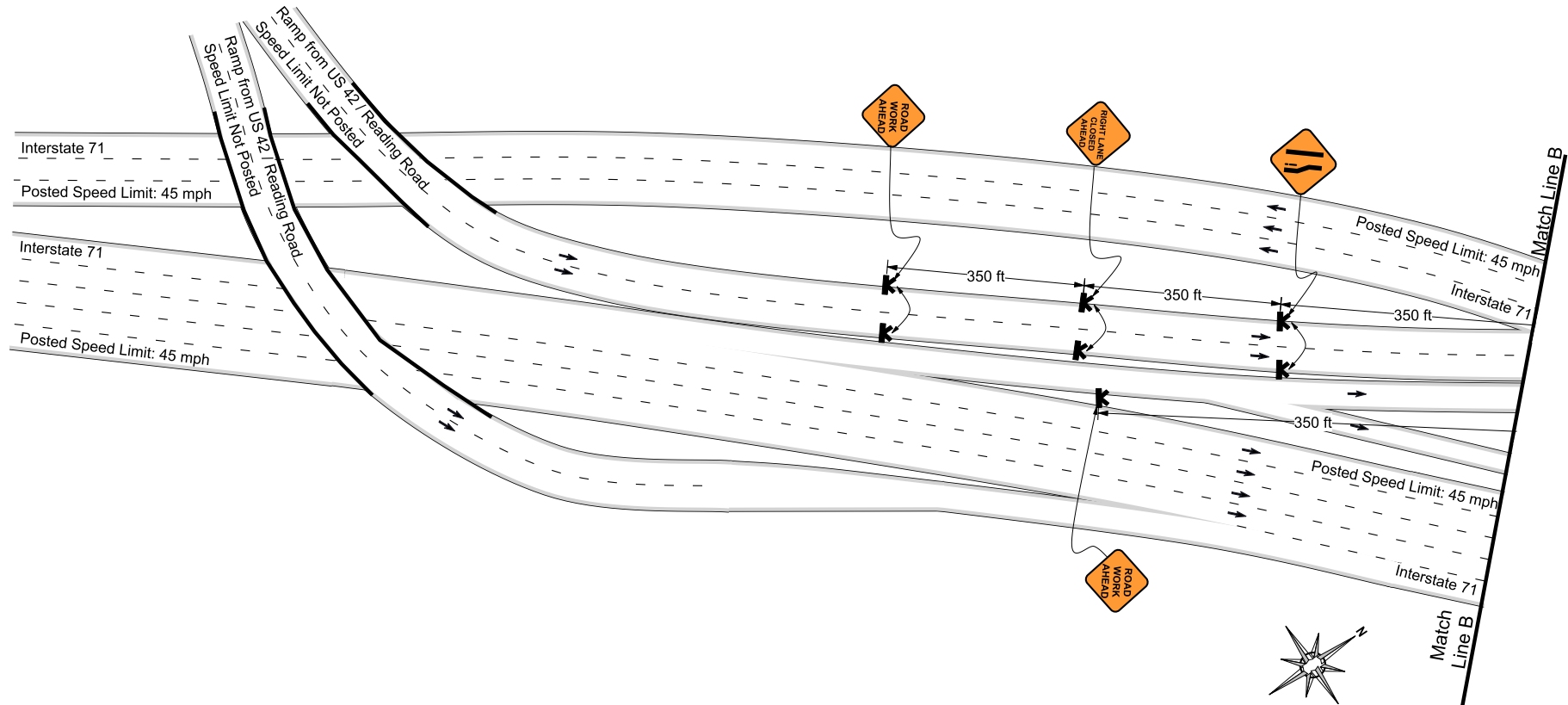
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 Flaggers shall remain in constant communications, via two-way radio, at all times.
 Parking ban shall be coordinated with the Cincinnati Police Department.

PLANS ARE NOT TO SCALE

Sheet 5 of 12

HAM-71-0248L PIER 3



Notes:

- Sign spacing and buffer space may be adjusted to fit field conditions.
- "Road Work Ahead" signs shall be placed on all cross streets intersecting within the work area. The signs should be placed a minimum of 100 feet in advance of the intersection.

Date: 4/18/2017 **Author:** G. Allison **Project:** 2017 Major Bridge Inspection Project - Cincinnati, OH
Customer: Infrastructure Engineers Inc **Quote#:** 17-110-1543 **Job#:** 16204OH08.00
Reviewer: J. McCarty

Comments:

Type of Road: Urban Commercial
 Traffic Volume: Moderate to Heavy

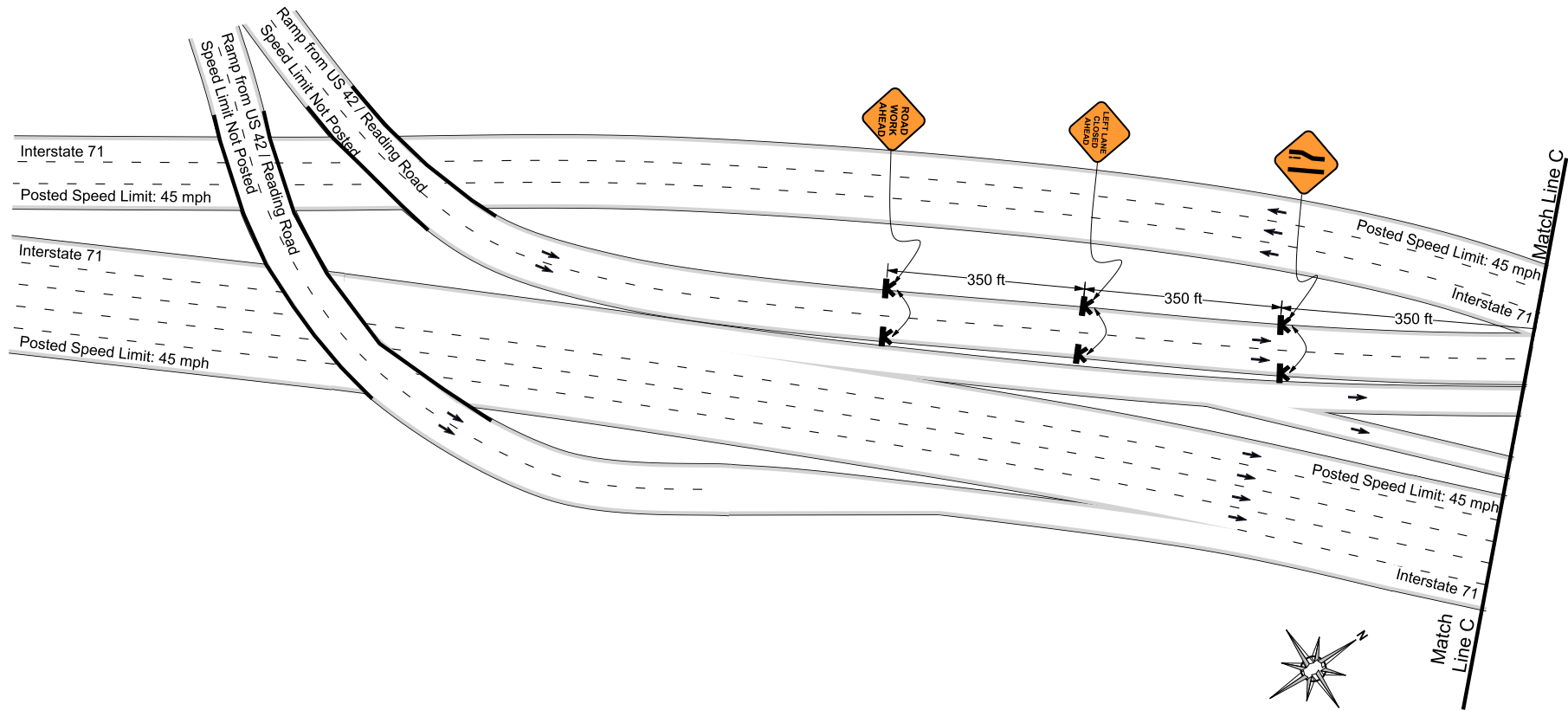
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Access to residential and commercial driveways to be maintained at all times.
 Flaggers shall be trained in safe temporary traffic control practices.
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PLANS ARE NOT TO SCALE

Sheet 6 of 12

HAM-71-0248L PIER 3 & 4



Notes:

- Sign spacing and buffer space may be adjusted to fit field conditions.
- "Road Work Ahead" signs shall be placed on all cross streets intersecting within the work area. The signs should be placed a minimum of 100 feet in advance of the intersection.

Date: 4/18/2017 **Author:** G. Allison **Project:** 2017 Major Bridge Inspection Project - Cincinnati, OH
Customer: Infrastructure Engineers Inc **Quote#:** 17-110-1543 **Job#:** 16204OH08.00
Reviewer: J. McCarty

Comments:

Type of Road: Urban Commercial
Traffic Volume: Moderate to Heavy

All signs & devices shall be placed in accordance with the latest provisions of Ohio Manual for Uniform Traffic Control Devices (OMUTCD) with respect to any applicable provisions from the City of Cincinnati.

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 Flaggers shall be trained in safe temporary traffic control practices.
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 Parking ban shall be coordinated with the Cincinnati Police Department.

PLANS ARE NOT TO SCALE

Sheet 9 of 12

Transportation & Engineering Permit

Permit No.: TPZ2103554

City of Cincinnati
Department of Transportation & Engineering
Division of Engineering
Permit & License Center
Phone: 1-513-352-3463
Fax: 1-513-352-5397

Permit Type: *Street Blocking/Use Pmt*
STATE OF OHIO

This permit is valid for work starting
06/07/2021 and void after 07/09/2021

Plans Attached? N

Permittee:
GANNETT FLEMING

Contact: DANIEL KENT
602-826-1239

24-Hours:

Insp: JEFF WISSEMEIER
District: 4 - WALNUT HILLS

Location: 587 EDEN PARK DR , EDEN PARK DR

Work Street: EDEN PARK DR

From Street: READING RD TO I-71 SB EXWY RA

To Street: FLORENCE AV

Work Order No.:

This Permit has been granted to do the following: EDEN PARK DR - STATE OF OHIO

Street Area Impacted: Overall Length: 0 Overall Width: 0

Special Notes:

1: PERMIT FOR SAFETY CLOSURE FOR BRIDGE INSPECTION

2: No work can be performed during the peak traffic periods of 7:00 AM to 9:00 AM and 4:00 PM to 6:00 PM, Monday thru Friday.

3: Maintain access to abutting property owners at all times.

4: All maintenance of traffic shall be performed in accordance with Item 614 "Maintenance of Traffic", as provided in the State of Ohio, Department of Transportation "Construction and Materials Specifications" (ODOTCMS) and the City of Cincinnati Supplement to the ODOTCMS and the requirements for maintaining traffic in the "Ohio Manual of Uniform Traffic Control Devices" (OMUTCD). The City of Cincinnati's "Traffic Safety Handbook" may be used as a supplement to the OMUTCD. Advanced Warning Signs, Reflective Cones and Arrow Boards where applicable, shall be the responsibility of the permittee to comply. Approval of this permit DOES NOT RELIEVE THE PERMITTEE of that responsibility.

5: Pedestrian protection and pedestrian access must be maintained at all times.

6: The permittee is responsible for assuring that the work area is secured and pedestrians cannot walk under equipment or into the work area. Traffic control devices must be used to secure the work area. Pedestrian, advanced warning or instructional signs are required.

7: By the Permittee's acceptance of this permit, all work performed or procedures undertaken in connection with the work described in this permit shall be in strict conformance with applicable rules, policies, regulations, codes, laws of the City of Cincinnati and State of Ohio. Any actions, by the persons operating under the authorization of this permit, not in conformance with the aforesaid requirements shall be considered a violation of the permit and subject to citation in accordance with the appropriate Civil Offense for working without a permit.

IMPORTANT: This permit including any approved documents must be kept on the job site at all times.

FOR INSPECTION: CALL 352-3451, BETWEEN 7:30 AND 8:30 AM, WEEKDAYS, EVERYDAY THAT YOU ARE DOING WORK UNDER THIS PERMIT. IF YOU ARE DOING WORK UNDER THIS PERMIT ON WEEKENDS, YOU MUST CALL IN THE FRIDAY BEFORE, BETWEEN 7:30 AND 8:30 AM.

In performing work under this permit, the Permittee is responsible for all related operations, that the operations conform to all applicable statutes, rules and regulations of the City of Cincinnati, State of Ohio, and that the Permittee shall defend, indemnify, and hold the City, its officers, employees, and agents harmless from and against any and all actions, suits, claims, losses, costs (including without limitation attorneys fees), demands, judgments, liability and

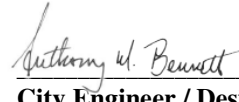
Doc Control #: TE21011404

damages arising from the work done under this permit.

THIS PERMIT MAY BE REVOKED AT ANY TIME
Call before you dig 1-800-362-2764 or 811

Estimated Permit Fee: \$0.00

Final costs will be based on total measured quantities and total inspection hours.



City Engineer / Designee

4/28/21

Date
