To: All Plan Holders of Record

From: Verdantas LLC
For the Village of Jefferson

Re: ***Addendum No. 1***
Jefferson WWTP EQ Basin Improvements
Village of Jefferson

Date: February 11, 2026

This Addendum forms a part of the contract documents and modifies the original bidding documents dated February 2026 and all previous addenda, if any. Acknowledge receipt of this addendum in the space provided in the bid forms. Failure to do so may subject the bidder to disqualification.

QUESTIONS AND ANSWERS

Q1. Is there an alternate item for cast-in-place design and construction.
A1. No there is not an alternate item. Please prepare all bids based on precast, post-tensioned design and construction. Please see Clarification 1 for more information.

Q2. The plans show two soil bores; do you have the results of the soil tests?
A2. Please see the Geotechnical Report titled "220733 CT Geotech Report - EQ Tank, Jefferson OH," within the bid documents.

Q3. I purchased the bid documents. Where am I listed as a bidder?
A3. Please see the bid document titled "Planholder.html" posted for this project in the Documents tab on our Plan Room.

Q4. Is BF.8 the total bid sheet?
A4. The project is a Lump Sum project. Please provide the Unit Price Labor, Unit Price Material, Total Unit Price and Item Total on BF.8 as directed on page BD.9 of the Prices to Include, Item 2.1.

Q5. Is there a Pre-Bid Meeting for the project at the site?
A5. There is no scheduled pre-bid conference. However, bidders are encouraged to coordinate site visits with the WWTP Superintendent prior to submitting their bids. Contact Information can be found in Specification Section 011000 – Summary, paragraph 1.2, Project Information and in the Specific Project Requirements Item 6 – Site & Building Access.

Q6. Access: There is an aerial sewer that we would have to go under with trucks, materials and equipment.
   a. The sewer shows a 12' clearance, but there is a sharp swale under the pipe. The profile of the swale may be too great to get trucks under it. Can it be shutoff/plugged and a section removed?
   b. Can the roadway be lowered to accommodate the height required?

A6. Access:

a. No, the sewer cannot be plugged and a section removed. The aerial sewer requires continuous service during construction.
b. The means and methods of construction and construction access are up to the contractor but should be communicated with the Owner prior to modification of the project site. Temporary roadway modifications will be considered and should be discussed during the preconstruction meeting as part of the Progress Schedule and Critical Work Sequencing. Any modifications must be coordinated with the Owner to maintain the Owner occupancy requirements. Any temporary modifications or disturbances to the project site during construction shall be restored to existing conditions before final completion.

Q7. Fence: There is a fence adjacent to the existing structure that will need to be removed.

a. Are we reinstalling the fence in its original location?
b. Are we installing a new fence in the original location?
c. Are we installing a new fence around the new structure and connecting it to the existing fence?

A7. Fence:

c. No.
d. No.
e. No.

Q8. Will you require waterproofing on the exterior of the new structure?

A8. No.

Q9. Will you require porous backfill around the structure, and where would you want it to drain to?

A9. Please refer to Specification Section 310000 – Earthwork for the backfill requirements.

Q10. Will you require any coatings to the concrete in the new structure? If so, can you provide a coatings schedule?

A10. Yes, the concrete in both the new EQ tank and the existing EQ tank are scheduled for coatings as specified in Section 099635 – Chemical Resistant Coatings. Please see the Specification change below.

Q11. The specifications call for a fiberglass ladder, while the drawings show a stainless steel ladder. Which material is to be used?

A11. Please prepare your bid based on a FRP ladder into the tank as Specification Section 068000 – FRP Fabrications, requires.

Q12. The drawings show a ships ladder into the existing tank and another into the new tank. The details on drawing 11/11 show conventional stair construction. Please advise on type of stair and material.

A12. Please prepare your bid based on a ships ladder to both tanks. The material shall be steel, as specified in the Specification Section 055800 – Metal Fabrications added below.

Q13. Please provide a specification and detail for the handrail.
A13. See the Specification 055800 – Metal Fabrications addition and standard details added below.

Q14. What slope are you expecting in the base slab of the EQ tank?
A14. The base slab should be sloped at ¼" per foot in the directions shown on sheet 10S-02.

CLARIFICATIONS

C1. Substitutions will be considered post contract award during shop drawing submittals and reviews. Please refer to the Specification Section 012500.00 – Substitution Procedures, and Specification Section 013300.00 Submittal Procedures for the requirements, as well as the Submittals paragraph of each Specification section of interest.

SPECIFICATIONS

In Specification Section 011000 - SUMMARY, **REVISE** the following paragraph in section 1.2

1. Engineer's Representative: Eric Fallon, P.E.
   330.247.3739

   Tess Cressman, EIT
   440.530.2221

In Specification Section 011000 – SUMMARY, **REVISE** the following paragraph in section 1.3

B. Work of the Project includes the design, and installation of a precast post-tensioned equalization basin adjacent to the existing equalization basin at the Jefferson WWTP. Site piping modifications will also be made.

In Specification Section 034200 Rectangular-Precast-Post-Tensioned-Tank, **REVISE** the following paragraph in section 1.6.

B. Tank Supplier: Subject to compliance with requirements, provide rectangular precast post-tensioned concrete tanks by Dutchland, Inc. located in Gap, Pennsylvania, Mack Industries, or pre-approved equal.

ADD Specification Section 055800 – Metal Fabrications.

In Specification Section 099635 – Chemical Resistant Coatings, **ADD** the following subparagraph to Part 3 – Execution:

3.7 Schedule of Required Coatings

A. Existing EQ Tank – Interior walls and base slab as specified in paragraph 3.6 B.

B. Proposed EQ Tank – Interior walls and base slab as specified in paragraph 3.6 B.

PLANS

On plan sheet SD-S-0, **ADD** the following Standard Details: TYPICAL ALUMINUM (6061-T6) GUARDRAIL DETAIL, GUARDRAIL SPLICE DETAIL, SURFACE MOUNTED PIPE RAILING DETAIL, and REMOVABLE RAILING DETAIL.

EMF/TLC:mep

Enclosures

Z:\Project Files\IA-JZ\Jefferson\37180 - Jefferson WWTP EQ Basin Improvements\Working\Bid Documents\Addenda\Addendum 01

SECTION 055800 - METAL FABRICATIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following metal fabrications:

1. Rough hardware.
2. Ladders
3. Loose bearing and leveling plates.
4. Loose steel lintels.
5. Shelf and relieving angles.
6. Miscellaneous framing and supports for the following:

    a. Overhead doors.
    b. Suspended toilet partitions.
    c. Applications where framing and supports are not specified in other sections.

7. Miscellaneous steel trim, including the following:

    a. Edgings.

8. Pipe bollards.
9. Steel Pipe Railings

B. Related Sections: The following Sections contain requirements that relate to this Section:

1. Division 5 Section "Structural Steel" for structural steel framing system components.
2. Division 5 Section "Alternating Tread Steel Stairs".

1.3 SUBMITTALS

A. General: Submit each item in this Article according to the Conditions of the Contract and Division 1 Specification Sections.

B. Product data for nonslip aggregates and nonslip aggregate surface finishes, paint products, and grout.

C. Shop drawings detailing fabrication and erection of each metal fabrication indicated. Include plans, elevations, sections, and details of metal fabrications and their connections.

Show anchorage and accessory items. Provide templates for anchors and bolts specified for installation under other Sections.

D. Welder certificates signed by Contractor certifying that welders comply with requirements specified under the "Quality Assurance" Article.

E. Qualification data for firms and persons specified in the "Quality Assurance" Article to demonstrate their capabilities and experience. Include a list of completed projects with project name, addresses, names of architects and owners, and other information specified.

1.4 QUALITY ASSURANCE

A. Fabricator Qualifications: Firm experienced in producing metal fabrications similar to those indicated for this Project with a record of successful in-service performance, and with sufficient production capacity to produce required units without delaying the Work.

B. Welding Standards: Comply with applicable provisions of AWS D1.1 "Structural Welding Code--Steel," AWS D1.2 "Structural Welding Code--Aluminum," and AWS D1.3 "Structural Welding Code--Sheet Steel."

1. Certify that each welder has satisfactorily passed AWS qualification tests for welding processes involved and, if pertinent, has undergone recertification.

1.5 SYSTEM PERFORMANCE REQUIREMENTS

A. Handrails: Capable of withstanding the following loads applied as indicated:

1. Concentrated load of 200 lbf applied at any point nonconcurrently, vertically downward or horizontally.
2. Uniform load of 50 lbf per linear foot applied nonconcurrently, vertically downward or horizontally.
3. Concentrated and uniform loads above need not be assumed to act concurrently.

1.6 PROJECT CONDITIONS

A. Field Measurements: Check actual locations of walls and other construction to which metal fabrications must fit by accurate field measurements before fabrication. Show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1. Where field measurements cannot be made without delaying the Work, guarantee dimensions and proceed with fabricating products without field measurements. Coordinate construction to ensure that actual dimensions correspond to guaranteed dimensions. Allow for trimming and fitting.

PART 2 - PRODUCTS

2.1 FERROUS METALS

A. Metal Surfaces, General: For metal fabrications exposed to view in the completed Work, provide materials selected for their surface flatness, smoothness, and freedom from surface blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.

B. Steel Plates, Shapes, and Bars: ASTM A 36 (ASTM A 36M).

C. Rolled Steel Floor Plates: ASTM A 786 (ASTM A 786M).

D. Steel Pipe: ASTM A 53, standard weight (schedule 40), unless otherwise indicated, or another weight required by structural loads.

1. Black finish, unless otherwise indicated.
2. Galvanized finish for exterior installations and where indicated.

E. Gray-Iron Castings: ASTM A 48, Class 30.

F. Malleable-Iron Castings: ASTM A 47, Grade 32510 (ASTM A 47M, Grade 22010).

G. Cast-in-Place Anchors in Concrete: Anchors of type indicated below, fabricated from corrosion-resistant materials capable of sustaining, without failure, the load imposed within a safety factor of 4, as determined by testing per ASTM E 488, conducted by a qualified independent testing agency.

1. Threaded or wedge type; galvanized ferrous castings, either ASTM A 47 (ASTM A 47M) malleable iron or ASTM A 27 (ASTM A 27M) cast steel. Provide bolts, washers, and shims as required, hot-dip galvanized per ASTM A 153.

H. Welding Rods and Bare Electrodes: Select according to AWS specifications for the metal alloy to be welded.

2.2 PAINT

A. Shop Primer for Ferrous Metal: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with performance requirements of FS TT-P-664, selected for good resistance to normal atmospheric corrosion, compatibility with finish paint systems indicated, and capability to provide a sound foundation for field-applied topcoats despite prolonged exposure.

B. Galvanizing Repair Paint: High-zinc-dust-content paint for regalvanizing welds in galvanized steel, with dry film containing not less than 94 percent zinc dust by weight, and complying with DOD-P-21035 or SSPC-Paint 20.

C. Bituminous Paint: Cold-applied asphalt mastic complying with SSPC-Paint 12, except containing no asbestos fibers.

2.3 FASTENERS

A. General: Provide plated fasteners complying with ASTM B 633, Class Fe/Zn 25 for electrodeposited zinc coating, for exterior use or where built into exterior walls. Select fasteners for the type, grade, and class required.

B. Bolts and Nuts: Regular hexagon-head bolts, ASTM A 307, Grade A (ASTM F 568, Property Class 4.6), with hex nuts, ASTM A 563 (ASTM A 563M), and, where indicated, flat washers.

C. Machine Screws: ANSI B18.6.3 (ANSI B18.6.7M).

D. Lag Bolts: ANSI B18.2.1 (ANSI B18.2.3.8M).

E. Wood Screws: Flat head, carbon steel, ANSI B18.6.1.

F. Plain Washers: Round, carbon steel, ANSI B18.22.1 (ANSI B18.22M).

G. Lock Washers: Helical, spring type, carbon steel, ANSI B18.21.1.

H. Expansion Anchors: Anchor bolt and sleeve assembly of material indicated below with capability to sustain, without failure, a load equal to 6 times the load imposed when installed in unit masonry and equal to 4 times the load imposed when installed in concrete as determined by testing per ASTM E 488 conducted by a qualified independent testing agency.

1. Material: Carbon steel components zinc-plated to comply with ASTM B 633, Class Fe/Zn 5.
2. Material: Group 1 alloy 304 or 316 stainless-steel bolts and nuts complying with ASTM F 593 (ASTM F 738M) and ASTM F 594 (ASTM F 836M).

I. Toggle Bolts: FS FF-B-588, tumble-wing type, class and style as required.

2.4 CONCRETE FILL

A. Concrete Materials and Properties: Comply with requirements of Division 3 Section "Cast-in-Place Concrete" for normal-weight, air-entrained, ready-mix concrete with a minimum 28-day compressive strength of 3000 psi (20 MPa), unless higher strengths are indicated.

2.5 FABRICATION, GENERAL

A. Form metal fabrications from materials of size, thickness, and shapes indicated but not less than that needed to comply with performance requirements indicated. Work to dimensions indicated or accepted on shop drawings, using proven details of fabrication and support. Use type of materials indicated or specified for various components of each metal fabrication.

B. Form exposed work true to line and level with accurate angles and surfaces and straight sharp edges.

C. Allow for thermal movement resulting from the following maximum change (range) in ambient temperature in the design, fabrication, and installation of installed metal assemblies to prevent buckling, opening up of joints, and overstressing of welds and fasteners. Base design calculations on actual surface temperatures of metals due to both solar heat gain and nighttime sky heat loss.

1. Temperature Change (Range): 100 deg F (55.5 deg C).

D. Shear and punch metals cleanly and accurately. Remove burrs.

E. Ease exposed edges to a radius of approximately 1/32 inch (1 mm), unless otherwise indicated. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.

F. Remove sharp or rough areas on exposed traffic surfaces.

G. Weld corners and seams continuously to comply with the following:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections, finish exposed welds and surfaces smooth and blended so that no roughness shows after finishing, and contour of welded surface matches those adjacent.

H. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners wherever possible. Use exposed fasteners of type indicated or, if not indicated, Phillips flat-head (countersunk) screws or bolts. Locate joints where least conspicuous.

I. Provide for anchorage of type indicated; coordinate with supporting structure. Fabricate and space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.

J. Shop Assembly: Preassemble items in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.

K. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.

L. Fabricate joints that will be exposed to weather in a manner to exclude water, or provide weep holes where water may accumulate.

2.6 ROUGH HARDWARE

A. Furnish bent, or otherwise custom-fabricated, bolts, plates, anchors, hangers, dowels, and other miscellaneous steel and iron shapes as required for framing and supporting woodwork, and for anchoring or securing woodwork to concrete or other structures. Straight bolts and other stock rough hardware items are specified in Division 6 Sections.

B. Fabricate items to sizes, shapes, and dimensions required. Furnish malleable-iron washers for heads and nuts that bear on wood structural connections, and furnish steel washers elsewhere.

2.7 STEEL LADDERS

A. General: Fabricate ladders for the locations shown, with dimensions, spacings, details, and anchorages as indicated. Comply with requirements of ANSI A14.3.

B. Siderails: Continuous, steel, 1/2-by-2-1/2-inch (12-by-64-mm) flat bars, with eased edges, spaced 18 inches (460 mm) apart.

C. Bar Rungs: 3/4-inch- (19-mm-) diameter steel bars, spaced 12 inches (300 mm) o.c.

D. Fit rungs in centerline of side rails, plug weld and grind smooth on outer rail faces.

E. Support each ladder at top and bottom and at intermediate points spaced not more than 60 inches (1500 mm) o.c. with welded or bolted steel brackets.

1. Size brackets to support design dead and live loads indicated and to hold centerline of ladder rungs clear of the wall surface by not less than 7 inches (180 mm).
2. Extend side rails 42 inches (1.1 m) above top rung, and return rails to wall or structure unless other secure handholds are provided. If the adjacent structure does not extend above the top rung, goose-neck the extended rails back to the structure to provide secure ladder access.

F. Provide nonslip surfaces on top of each rung, either by coating the rung with aluminum-oxide granules set in epoxy-resin adhesive, or by using a type of manufactured rung that is filled with aluminum-oxide grout.

2.8 LOOSE BEARING AND LEVELING PLATES

A. Provide loose bearing and leveling plates for steel items bearing on masonry or concrete construction, made flat, free from warps or twists, and of the required thickness and bearing area. Drill plates to receive anchor bolts and for grouting as required. Galvanize after fabrication.

2.9 LOOSE STEEL LINTELS

A. Fabricate loose structural steel lintels from steel angles and shapes of size indicated for openings and recesses in masonry walls and partitions at locations indicated.

B. Weld adjoining members together to form a single unit where indicated.

C. Size loose lintels for equal bearing of 1 inch per foot (85 mm per m) of clear span but not less than 8 inches (200 mm) bearing at each side of openings, unless otherwise indicated.

D. Galvanize loose steel lintels located in exterior walls.

2.10 MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Provide steel framing and supports for applications indicated that are not a part of structural steel framework as required to complete the Work.

B. Fabricate units to sizes, shapes, and profiles indicated and required to receive other adjacent construction retained by framing and supports. Fabricate from structural steel shapes, plates, and steel bars of welded construction using mitered joints for field connection. Cut, drill, and tap units to receive hardware, hangers, and similar items.

1. Equip units with integrally welded anchors for casting into concrete or building into masonry. Furnish inserts if units must be installed after concrete is placed.

    a. Except as otherwise indicated, space anchors 24 inches (600 mm) o.c. and provide minimum anchor units in the form of steel straps 1-1/4 inches (32 mm) wide by 1/4 inch (6 mm) thick by 8 inches (200 mm) long.

C. Fabricate support for suspended toilet partitions as follows:

1. Beams: Continuous steel shapes of size required to limit deflection to L/360 between hangers, but use not less than C8 by 11.5 (C200 by 17.1) channels or another shape with equivalent structural properties.
2. Hangers: Steel rods, 1/2-inch (13-mm) minimum diameter, spaced not more than 36 inches (900 mm) o.c. Thread rods to receive anchor and stop nuts. Fit hangers with wedge-shaped washers for full bearing on sloping flanges of support beam.
3. Braces and Angles: Steel angles of size required for rigid support of beam and for secure anchorage.

2.11 MISCELLANEOUS STEEL TRIM

A. Unless otherwise indicated, fabricate units from structural steel shapes, plates, and bars of profiles shown with continuously welded joints, and smooth exposed edges. Miter corners and use concealed field splices wherever possible.

B. Provide cutouts, fittings, and anchorages as required to coordinate assembly and installation with other work. Provide anchors, welded to trim, for embedding in concrete or masonry construction, spaced not more than 6 inches (150 mm) from each end, 6 inches (150 mm) from corners, and 24 inches (600 mm) o.c., unless otherwise indicated.

2.12 STRUCTURAL STEEL DOOR FRAMES

A. Fabricate steel door frames from structural shapes and bars of size and to dimensions indicated, fully welded together. Plug-weld built-up members and continuously weld exposed joints.

B. Provide steel strap anchors for securing door frames into adjoining concrete or masonry, using 1/8-by-2-inch (3-by-50-mm) straps of the length required for a minimum 8-inch (200-mm) embedment, unless otherwise indicated. Weld anchors to frame jambs no more than 12 inches (300 mm) from both bottom and head of frame and space anchors not more than 30 inches (750 mm) apart.

C. Galvanize frames and anchors in the following locations:

1. Exterior locations.

2.13 STEEL PIPE AND HANDRAILS

A. General: Fabricate pipe handrails to comply with requirements indicated for design, dimensions, details, finish and member sizes, including wall thickness of pipe, and anchorage, but not less than that required to support structural loads.

B. Interconnect handrail members by butt-welding or welinding with internal connectors, at fabricator's option, unless otherwise indicated.

C. For changes in direction of railing members as follows:

1. By radius bends.

D. Form simple and compound curves by bending pipe in jigs to produce uniform curvature for each repetitive configuration required; maintain cylindrical cross-section of pipe throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of pipe.

E. Provide wall returns at ends of wall-mounted handrails.

F. Close exposed ends of pipe by welding 3/16 inch thick steel plate in place or by use of prefabricated fittings.

G. Brackets, flanges, fittings, and Anchors: Provide wall brackets, end closurers, flanges, miscellaneous fittings, and anchors for interconnections of pipe and attachment of rails and handrails to other work. Furnish inserts and other anchorage devices for connecting rails and handrails to masonry work.

H. For interior steel handrails formed from steel pipe with black finish, provide nongalvanized ferrous metal fittings, brackets, fasteners and sleeves.

2.14 PIPE BOLLARDS

A. Fabricate pipe bollards from Schedule 80 steel pipe. Cap bollards with 1/4-inch (6.4-mm) minimum steel plate.

B. Fabricate sleeves for bollard anchorage from steel pipe with 1/4-inch- (6.4-mm-) thick steel plate welded to bottom of sleeve.

2.15 FINISHES, GENERAL

A. Comply with NAAMM "Metal Finishes Manual" for recommendations relative to applying and designing finishes.

B. Finish metal fabrications after assembly.

2.16 STEEL AND IRON FINISHES

A. Galvanizing: For those items indicated for galvanizing, apply zinc coating by the hot-dip process complying with the following requirements:

1. ASTM A 153 for galvanizing iron and steel hardware.
2. ASTM A 123 for galvanizing both fabricated and unfabricated iron and steel products made of uncoated rolled, pressed, and forged shapes, plates, bars, and strip 0.0299 inch (0.76 mm) thick or thicker.

B. Preparation for Shop Priming: Prepare uncoated ferrous metal surfaces to comply with minimum requirements indicated below for SSPC surface preparation specifications and environmental exposure conditions of installed metal fabrications:

1. Exteriors (SSPC Zone 1B): SSPC-SP 6 "Commercial Blast Cleaning."
2. Interiors (SSPC Zone 1A): SSPC-SP 3 "Power Tool Cleaning."

C. Apply shop primer to uncoated surfaces of metal fabrications, except those with galvanized finishes or to be embedded in concrete, sprayed-on fireproofing, or masonry, unless otherwise indicated. Comply with requirements of SSPC-PA 1 "Paint Application Specification No. 1" for shop painting.

PART 3 - EXECUTION

3.1 PREPARATION

A. Coordinate and furnish anchorages, setting drawings, diagrams, templates, instructions, and directions for installing anchorages, including concrete inserts, sleeves, anchor bolts, and miscellaneous items having integral anchors that are to be embedded in concrete or masonry construction. Coordinate delivery of such items to Project site.

B. Set sleeves in concrete with tops flush with finish surface elevations. Protect sleeves from water and concrete entry.

3.2 INSTALLATION, GENERAL

A. Fastening to In-Place Construction: Provide anchorage devices and fasteners where necessary for securing miscellaneous metal fabrications to in-place construction. Include threaded fasteners for concrete and masonry inserts, toggle bolts, through-bolts, lag bolts, wood screws, and other connectors as required.

B. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing miscellaneous metal fabrications. Set metal fabrication accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

C. Provide temporary bracing or anchors in formwork for items that are to be built into concrete masonry or similar construction.

D. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop-welded because of shipping size limitations. Do not weld, cut, or abrade the surfaces of exterior units that have been hot-dip galvanized after fabrication and are intended for bolted or screwed field connections.

E. Field Welding: Comply with the following requirements:

1. Materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Fusion without undercut or overlap.
3. Welding flux immediately.
4. Exposed connections, finish exposed welds and surfaces smooth and blended so that no roughness shows after finishing, and contour of welded surface matches those adjacent.

3.3 SETTING LOOSE PLATES

A. Clean concrete and masonry bearing surfaces of bond-reducing materials, and roughen to improve bond to surfaces. Clean bottom surface of bearing plates.

B. Set loose leveling and bearing plates on wedges or other adjustable devices. After the bearing members have been positioned and plumbed, tighten the anchor bolts. Do not remove wedges or shims, but if protruding, cut off flush with the edge of the bearing plate before packing with grout.

1. Use nonshrink, metallic grout in concealed locations where not exposed to moisture; use nonshrink, nonmetallic grout in exposed locations, unless otherwise indicated.
2. Pack grout solidly between bearing surfaces and plates to ensure that no voids remain.

3.4 INSTALLING SUPPORTS FOR TOILET PARTITIONS

A. Anchor supports securely and rigidly brace from overhead building structure.

3.5 INSTALLING PIPE BOLLARDS

A. Anchor bollards in concrete with pipe sleeves preset and anchored into concrete. After bollards have been inserted into sleeves, fill annular space between bollard and sleeve solidly with nonshrink, nonmetallic grout, mixed and placed to comply with grout manufacturer's directions.

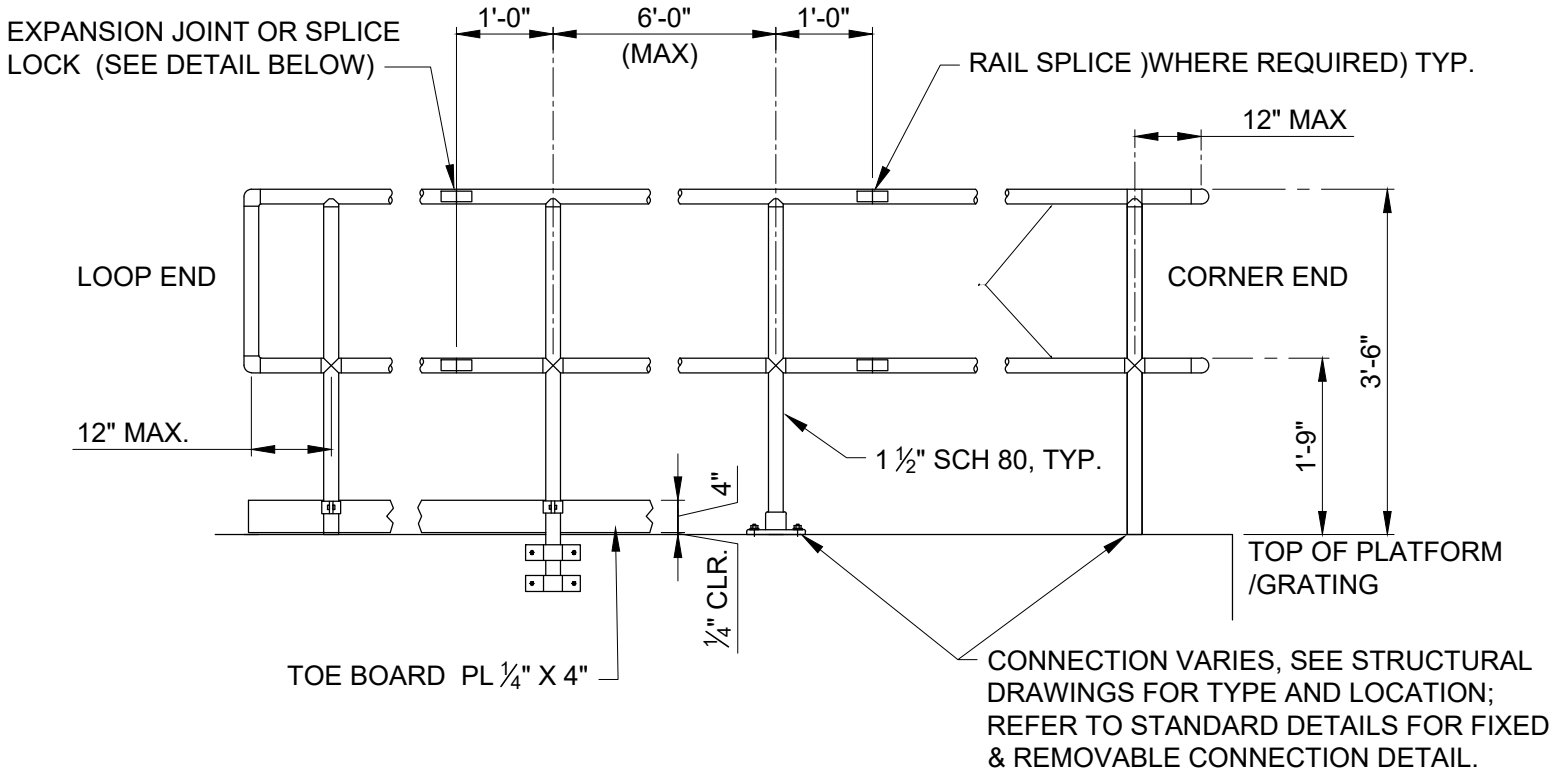
B. Fill bollards solidly with concrete, mounding top surface.

3.6 ADJUSTING AND CLEANING

A. Touchup Painting: Cleaning and touchup painting of field welds, bolted connections, and abraded areas of the shop paint on miscellaneous metal is specified in Division 9 Section "Painting."

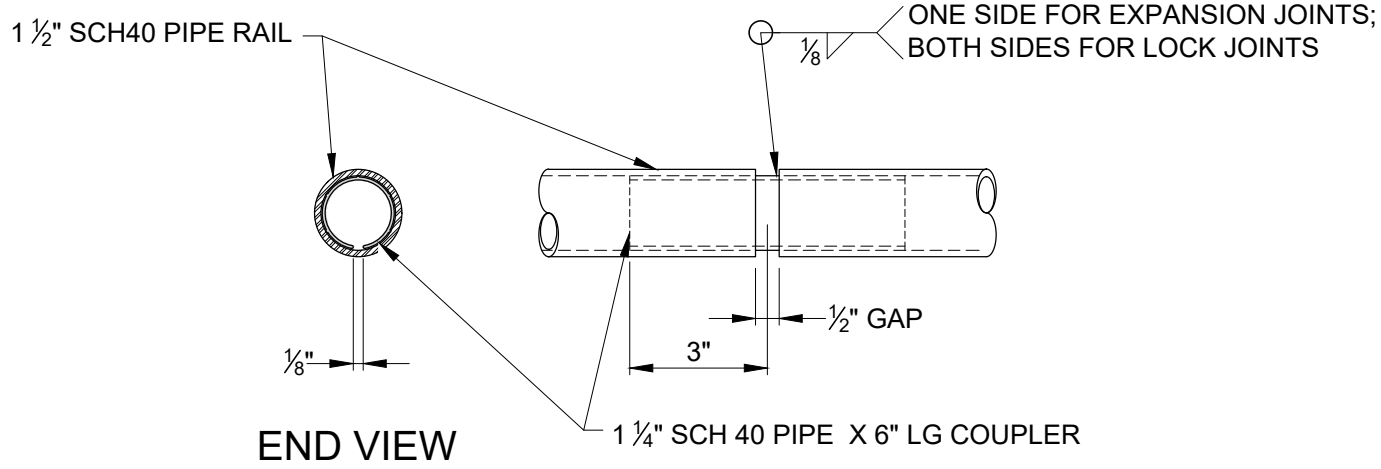
B. For galvanized surfaces, clean welds, bolted connections, and abraded areas, and apply galvanizing repair paint to comply with ASTM A 780.

END OF SECTION 055800



TYPICAL ALUMINUM (6061-T6) GUARDRAIL DETAIL

GUARDRAIL SHALL BE TOP-MOUNTED OR SIDE MOUNTED AS NOTED ON PLANS



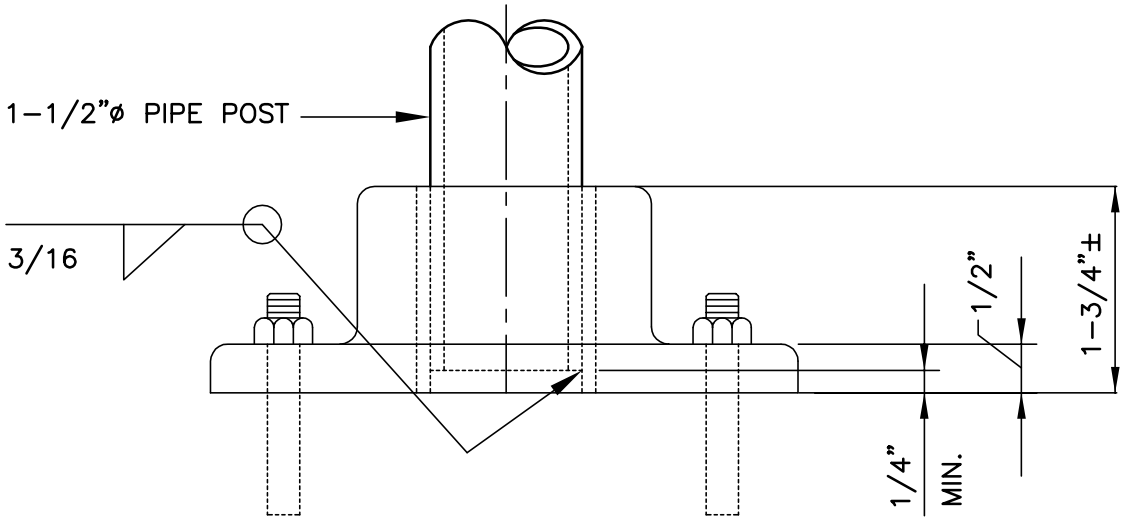
END VIEW

GUARDRAIL SPLICE DETAIL

GUARDRAIL SHALL BE TOP-MOUNTED OR SIDE MOUNTED AS NOTED ON PLANS

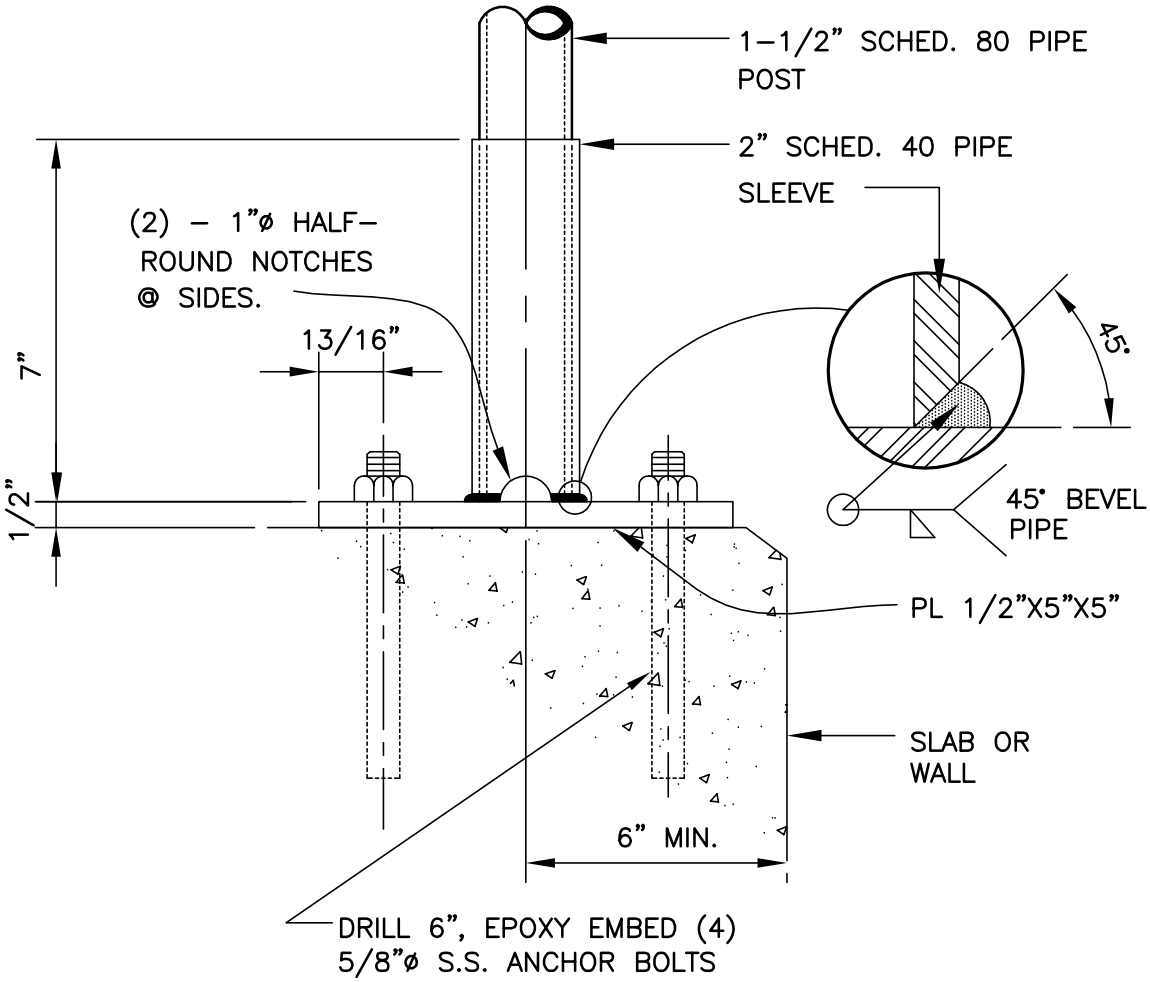
8/23 (SD-7-28C)

HEAVY DUTY FLOOR FLANGE:
ALUMINUM–6061–T6 (OR EQUAL STRENGTH WITH MIN. 5–3/8" O.D. AND 4" BOLT CIRCLE. DRILL 4" & EPOXY EMBED FOUR 3/8"ø S.S. ANCHORS. WELD POST AT BOTTOM OF BASE ONLY BY STERLING RAILING, ERIE, PA, OR MAULTRIE MFG. CO. MAULTRIE GA. OR APPROVED EQUAL.



SURFACE MOUNTED PIPE RAILING DETAIL

4/06 NO SCALE SD-7-29



REMOVABLE RAILING DETAIL

4/06 NO SCALE SD-7-29