Addendum No. 1

Alma Southside Sidewalk Improvements, ARDOT Job #040961
City of Alma
804 Fayetteville Avenue
Alma, Arkansas 72921

This addendum modifies the construction package for the subject project and shall become a part of the contract documents. Bidders shall acknowledge receipt of this addendum in the space provided on the BID FORM of the CONSTRUCTION package, and on the outside of your bid envelope. Failure to do so may subject bidder to disqualification.

Please note the following corrections, revisions, and clarifications to the subject project construction package:

1. Arkansas Department of Transportation and FHWA Forms Revision:

    a. Add “Buy America – Construction Materials" to the contract documents. See attached for the Buy America – Construction Materials document.

2. Clarification of the Quantity for Handrail:

    a. Referencing the Sidewalk Turned Down Edge SW. 1.2 detail, it is noted that if the top of the sidewalk to the bottom of the compacted topsoil has more than a 12” difference, then a handrail is required. Accordingly, the planned quantity of Handrail has been reduced, with an additional 10 LF included to account for potential field changes. See updated Grading Plan Sheet and Bid Schedule attached.

3. Technical Specifications Revision:

    a. Section 440.03 (a) – Concrete Sidewalks, Ramps, and Steps
    In the paragraph, the first sentence reads:
    “All concrete shall be Class “A” (3000 psi), air entrained, as specified in Section 401 of these specifications.”
    The sentence shall be modified to:
    “All concrete shall be Class “AA” (3500 psi), air entrained, as specified in Section 401 of these specifications.”
    b. Section 907 – Fences
    Clarifications were made to 907.03 – Materials and 907.04 – Construction Requirements; please see updated Section 907 – Fences Specifications.

4. Plan Sheet Revisions:

    a. Revisions have been made to Sheet 11 to reflect the updated Handrail Quantity.
    b. Sheet has been added to include details for Fencing and Handrail. See Sheet 16.

QUESTIONS:

1. Question: The plans say, “Handrail (see detail),” but there is no handrail detail in Sheets 1–15. Please provide the height, number of rails, pipe size and wall, post spacing, and end treatment.

   Answer: See Technical Specification Revisions for Section 906 – Handrails.

2. Question: Sheet 3 says flanged and bolted posts, but Sheet 12 (SW.1.4) shows posts cast into the 8" wall. Which governs?

   Answer: The contractor may elect to use either connection method, provided the proposed installation meets the project requirements and is approved by the Engineer prior to installation.

3. Question: The bid shows 120 LF. We find about 60 LF on Mulberry, 11 LF on London and an ADA ramp at Sta. 0+00 Mulberry. Please give all locations and lengths.

   Answer: See updated Grading Plan Sheet and Bid Schedule attached.

4. Question: Detail SW.2.1 shows no handrails. Are rails required on one side or both, and are they ADA handrails (34"–38" high, with extensions)?

   Answer: For the proposed ramp call near Sta. 0+00 on sheet 5, please see sheet 11 for inset. The handrail will be on the south side of the sidewalk and is located between Sta. 0+13.66 to Sta. 0+29.22. See Technical Specification Revisions for Section 906 – Handrails.

5. Question: Along the turned-down edge, is this a graspable handrail (34"–38") or an edge guard (42")?

   Answer: See added sheet for handrail detail.

6. Question: Is galvanized steel or aluminum acceptable at our option, with no paint or powder coat?

   Answer: As stated in the specification, either galvanized steel or aluminum is acceptable after approval of proposed handrails. Galvanized handrails need to be painted with zinc oxide paint if scratched or otherwise damaged.

7. Question: Please confirm it is 4' galvanized chain link with top rail, and whether there are any gates in the 230 LF.

   Answer: The existing fence on sheet 7 at Sta. 7+62 to 9+22 is a 4' galvanized chain link with top rail and has no gates. The existing fence on sheet 7 at Sta. 10+21 to 10+91 is a welded-wire garden fence with no top rails and no gates, but will be removed and replaced with a 4' galvanized chain-link fence with top rails.

8. Question: Is the fence rebuilt on its original line or a new line?

   Answer: As shown on plans, the new fence will be shifted north to the right-of-way and tied into the existing fence.

9. Question: Please give start and end points for the 160 LF and 70 LF runs. Is a new terminal post required at each tie-in?

   Answer: Refer to Plan documents. The 160 LF run is located approximately between Sta. 7+62 to 9+22, and the 70 LF run is located approximately between 10+21 to 10+91. As stated in the updated Section 907 – Fence Specification, the terminal post shall be attached in a satisfactory manner, with terminal posts being set as directed.

10. Question: Spec 907.04(f) says "at locations shown," but none are shown. Please confirm the locations and gates, and whether temporary chain-link panels are acceptable.

    Answer: See Technical Specification Revisions for Section 907 – Fence.

11. Question: There is no fence detail. Please give post sizes, footing size, and post spacing, or confirm we match existing. Which concrete applies to post footings: Class B, 2,500 psi (spec), or 3,500 psi (Sheet 2)?

    Answer: See Technical Specification Revisions for Section 907 – Fence and updated detail sheet.

12. Question: Please confirm the 230 LF on Sheet 7 is the only fence work in this item.

    Answer: Yes, that is correct. The 230 LF of fencing shown on Sheet 7 represents the entirety of the fence work included in this item.

13. Question: Are domestic steel certs required for the handrail and any new fence material?

    Answer: Yes, please see Arkansas Department of Transportation and FHWA Forms Revision.

Please acknowledge the receipt of Addendum No. 1 on the outside of your Bid Envelope and in the Bid form.

Receipt of This Addendum is Hereby Acknowledged:

_____
Company

_____
Printed Name

_____
Signature Date

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. 040961

BUY AMERICA - CONSTRUCTION MATERIALS

Description: **Section 106, Control of Material**, of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The following is added as **Subsection 106.01(c) Construction Materials**

Buy America – Construction Materials. (1) General. The Bipartisan Infrastructure Law (BIL) was enacted on November 15, 2021 (BIL Build America, Buy America Act Publication L. No. 117-58). This provision expands the Buy America requirements beyond what was only required for steel and iron products. The steel and iron provisions have not changed with the new law. Buy America requirements are in effect only on Federal-Aid contracts and all construction materials shall be produced/manufactured in the United States. Items specifically excluded from this requirement are cement and cementitious materials; aggregates such as stone, sand, or gravel; aggregate binding agents or additives (including asphalt binders). All other materials permanently incorporated into the project will be subject to Buy America requirements.

(2) Definitions. A construction material includes an article, material, or supply that is or consists primarily of:

- non-ferrous metals;
- plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cable);
- glass (including optic glass);
- lumber; or
- drywall.

All construction materials shall be produced in the United States. This means all manufacturing processes to produce the construction materials shall occur in the United States. All manufacturing processes for construction materials shall mean the final manufacturing process and the immediately preceding manufacturing stage for the construction material.

All manufactured products permanently incorporated into the project must be manufactured in the United States or assembled from components that are mined, produced, or manufactured in the United States. The combined value of the domestic components of a manufactured product must be greater than 55 percent of the total cost of all components of the manufactured product.

(3) Compliance. All prospective bidders should obtain quotes from suppliers that can furnish the required domestic manufactured materials and the cost of such should be included in the contract unit prices bid for the various individual pay items. Waivers will only be considered when there is no domestic manufacturer of the specific item meeting the requirements in the appropriate section of the Standard Specifications. Questions relating to domestic product availability should be made pre-bid and responses, including possible waivers, will be posted on the Department's website.

The Contractor shall ensure that all manufacturing processes for each covered product comply with this Buy America Provision. Non-conforming products shall be replaced at no expense to the Department. It is the contractor's responsibility to assure all submittals required

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BUY AMERICA - CONSTRUCTION MATERIALS

for Buy America are submitted to the Engineer prior to the products and or materials being incorporated into the project.

Buy America requirements do not apply to temporary elements not permanently incorporated into a project. This includes falsework, temporary sheet piling, detour bridges, temporary elements left in place at the contractor's convenience, unless the contract plans and specifications require steel or iron components or imply that the item be left in place, or items that are simply moved from one place to another within the same project. Buy America only applies to construction materials that are consumed in, incorporated into, or affixed to an infrastructure project. As such, it does not apply to tools, equipment, and supplies, such as temporary scaffolding, removed at or before completion of the project.

(4) Certification. The contractor shall provide a certification from the supplier for each construction material, stating that it meets the provisions of this specification or the Build America/Buy America act, prior to incorporating any construction material into the project. The supplier certifying may be the original manufacturer, fabricator, or vendor provided the supplier has sufficient control and knowledge of the manufacturing process to accept responsibility and certify full and complete conformance with the certification. In lieu of the manufacturer's certification, the Contractor or supplier may provide the Domestic Materials Self-Certification Form for the specific product from AASHTO's Product Evaluation & Audit Solution's datamine (www.transportation.org/product-evaluation-and-audit-solutions) or from the NEMA Make it American BABA Registry (https://www.makeitelectric.org/nema-programs/make-it-american/nema-make-it-american/).

(5) Examples of Pay Items Affected. The following are items from the Standard Specifications and common special provisions that must meet the requirements of this specification. This list is provided for bidders' information and is not to be considered as all-inclusive as other items covered by the standard specifications, supplemental specifications, and special provisions may also fall under these requirements:

Non-Ferrous Metals	
Item	**Specification Section**
Aluminum Pipe Culverts	606
Aluminum Chain Link Fence	619
Aluminum Gates	619
Mailboxes	637
Electrical Conductors	700, 708
Controller Cabinet (cabinet assembly)	701, 702,703
Ground Rods	701, 712, 714, 715
System Local Controller/Actuated Controller components (surge protector, conflict monitor, switches, flashers, relays, wiring harness, clocks, etc.)	701. Job SP
Pre-Timed Controller (cabinet and internal equipment)	702
Flashing Beacon Controller (cabinet and all internal equipment)	703

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BUY AMERICA - CONSTRUCTION MATERIALS

Loop Wiring	704
Vehicle Detectors (including all electrical components and mounting racks)	704
Feeder Wire	704
Preformed Detector Loops	704
Loop Wiring in Duct	705
Traffic Signal Heads (all types)	706, Job SP
Pedestrian Signal Heads	707
Traffic Signal Cable	708
Sign Supports - all types (including clips and fasteners)	724, 730
Sign Panels (including clips and fasteners)	723, 725, 726, 727, 728
Video Detectors (detector, processor, and other equipment)	733
Video Cable	733
Metal Bridge Railing	806
Bronze or Copper Alloy Bearing and Expansions Plates	807
Bridge Name Plates	812
Accessible Pedestrian Signals (APS)	Job SP
Electrical Conductors for Luminaires	Job SP
Electrical Conductors-in-Conduit	Job SP
LED Roadway Illumination Poles	Job SP
Luminaires	Job SP
Pedestal Type Service Point Assembly	Job SP
Retroreflective Backplates	Job SP
Wrong Way Detection System Controller Cabinet	Job SP
Copper plumbing lines and fittings	Job SP

Plastic/Polymer Based Products	
Item	**Specification Section**
Joint Sealers (Types 3 and 4)	501,503, 504,507,509
Epoxy Coating for Dowel Bars and Reinforcing Steel	501, 502, 507, 804
Epoxy Resin Anchoring Systems (Dowel Bars, Hand Rails, Metal Bridge Railing, Anchor Bolts)	507, 633, 806, 807
Polyethylene Pipe Culverts	606
PVC Pipe Culverts	606
RC Pipe Culvert Gaskets	606
Drop Inlet Steps	609, 610, 640
ABS or Polyethylene Pipe for Underdrains	611
PVC Pipe for Underdrain Laterals	611

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JOB NO. 040961

BUY AMERICA - CONSTRUCTION MATERIALS

Filter Fabrics	611, 625, 629, 816
Geotextile Fabrics	625
Tactile Panels for Wheelchair Ramps	641, Job SP
System Local Controller/Actuated Controller components (surge protector, conflict monitor, switches, flashers, relays, wiring harness, clocks, etc.)	701, Job SP
Pre-Timed Controller (internal equipment)	702
Flashing Beacon Controller (all internal equipment)	703
Vehicle Detectors (all electrical components)	704
Traffic Signal Heads (all types)	706, Job SP
Pedestrian Signal Heads	707
Non-Metallic Conduit (PE & PVC)	710
Paint for Reflectorized Paint Pavement Markings	718
Thermoplastic Pavement Markings (all)	719
Permanent Pavement Marking Tape	720
Raised Pavement Markers (markers and epoxy adhesive)	721
Sand Barrels/Lids for Impact Attenuation Barriers	731
Video Detectors (detector, processor, and other equipment)	733
Paint Systems for Structural Steel	807, 820
Preformed Joint Seals	809
Silicone Joint Sealants	809
Accessible Pedestrian Signal (APS) components	Job SP
Cellular Modem	Job SP
Enhanced Thermoplastic Pavement Markings	Job SP
Ethernet Switch (all types)	Job SP
Geogrids (all types)	Job SP
Hybrid Video/Radar Detection System components	Job SP
Latex Modifier in Latex Modified Concrete Overlays	Job SP
Lightweight Panels for Sound Reflecting Noise Barriers	Job SP
Overhead Digital Message Sign Assembly	Job SP
Polymer Resin in Polymer Overlays	Job SP
Polypropylene Pipe Culverts	Job SP
PTZ Camera System	Job SP
Radar Detection System	Job SP
Wrong Way Detection System FLIR Thermal Sensor	Job SP
Wrong Way Detection System Solar Panel	Job SP
PVC piping and fittings for building projects	Job SP

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JOB NO. 040961

BUY AMERICA - CONSTRUCTION MATERIALS

Glass	
Item	**Specification Section**
Glass Beads (drop on application)	718, 719
Fiber Optic Cable	Job SP
Solar Panels (Wrong Way Detection Systems and other ITS systems)	Job SP
Windows in Building Construction	Job SP

Lumber	
Item	**Specification Section**
Wood Guard Rail Posts	617, 639
Wood Block Outs for Guardrail	617,639
Wood Posts for Guard Cable	618
Fence Posts and Braces (Type A, B, C and D)	619
Mailbox Supports	637
Treated Wood Poles	716
Treated Lumber	817
Treated Bridge Timbers	817
Timber Piling	818
Framing Lumber, Plywood, Trim Lumber in Building Construction	Job SP

Drywall	
Item	**Specification Section**
Drywall in Building Construction	Job SP

Bid Schedule

ALMA SOUTHSIDE SIDEWALKS - ALMA, AR.
Sidewalk Improvements
(ARDOT Job No. 040961)

ITEM	SPEC. NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE BID	TOTAL BID
1	100	Mobilization	LS	**1**	$_____	$_____
2	120	Traffic Control	LS	**1**	$_____	$_____
3	141	Erosion Control	LS	**1**	$_____	$_____
4	201	Site Preparation	LS	**1**	$_____	$_____
5	201	Remove & Dispose of Concrete Curb and Curb & Gutter	LF	**20**	$_____	$_____
6	201	Remove & Dispose of Storm Drain Pipe (up to 24")	LF	**127**	$_____	$_____
7	202	Clearing & Grubbing	AC	**1**	$_____	$_____
8	203	Unclassified Excavation	CY	**650**	$_____	$_____
9	203	Undercut Excavation and Backfill (Select Material)	CY	**730**	$_____	$_____
10	203	Select Material	CY	**100**	$_____	$_____
11	290	Seeding	AC	**1**	$_____	$_____
12	290	Sodding	SY	**4,750**	$_____	$_____
13	305	Aggregate Base Course	CY	**180**	$_____	$_____
14	410	Concrete Curb & Gutter	LF	**339**	$_____	$_____
15	420	Concrete Pavement Apron (6" Thickness)	SY	**16**	$_____	$_____
16	430	Concrete Driveways (5" Thickness)	SY	**358**	$_____	$_____
17	440	Concrete Sidewalk (4" Thickness)	SY	**2,240**	$_____	$_____
18	440	Turn-Down Sidewalk Edge	LF	**135**	$_____	$_____
19	440	Handicap Sidewalk Ramp	EA	**25**	$_____	$_____
20	440	Sidewalk Drain	EA	**3**	$_____	$_____
21	501	15" Reinforced Concrete Pipe (Class III)	LF	**98**	$_____	$_____
22	501	15" FES	EA	**1**	$_____	$_____
23	501	18" Reinforced Concrete Pipe (Class III)	LF	**31**	$_____	$_____
24	501	24" Reinforced Concrete Pipe (Class III)	LF	**46**	$_____	$_____

ITEM	SPEC. NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE BID	TOTAL BID
25	501	Concrete Inlet/Junction Boxes	CY	**14**	$_____	$_____
26	501	Reconstruct Top - Inlet and Junction Boxes	EA	**7**	$_____	$_____
27	501	Ditch Regrading	LF	**250**	$_____	$_____
28	601	Fire Hydrant Grade Adjustment	EA	**1**	$_____	$_____
29	602	Water Meter Relocation	EA	**1**	$_____	$_____
30	602	Water Service Line	LF	**50**	$_____	$_____
31	602	Water Meter Grade Adjustment	EA	**10**	$_____	$_____
32	840	Traffic Paint Pavement Markings - (24" Width - White)	LF	**290**	$_____	$_____
33	902	Valve Box Grade Adjustment	EA	**3**	$_____	$_____
34	906	Handrail	LF	**67**	$_____	$_____
35	907	Remove and Reconstruct 4' Chain Link Fence	LF	**230**	$_____	$_____

TOTAL AMOUNT BID (Items 1-35): $_____

SECTION 907
FENCES

907.01 SCOPE OF WORK. This item shall consist of furnishing and erecting wire fence, chain link fence and gates in accordance with the plans and these specifications and in reasonable close conformity to the lines, grades and alignment shown on the plans or as directed.

907.02 APPLICABLE SPECIFICATIONS. All material and construction methods shall be in accordance with these specifications and with the standards referenced herein.

Reference to "AHTD Standard Specifications" shall indicate the Arkansas Highway and Transportation Department Standard Specifications for Highway Construction, Edition of 2014.

907.03 MATERIALS.

(a) GENERAL. Fence materials shall be new and shall meet the requirements for the type and class of material specified, except where removal and reconstruction of existing fences is specified.

(b) CHAIN LINK FENCE.

(1) Fabric. Material for chain-link fabric shall be certified to meet the requirements of AASHTO M181, Type I thru IV. Type I fabric (galvanized steel) shall be Class D (minimum coating of 2.0 oz/sf) for commercial and industrial fences and Class C (minimum 1.2 oz/sf) for residential fences. Type IV fabric shall be Class B, PVC coated, thermally fused and adhered to a primer that is thermally cured onto galvanized core wire. Color of Type IV fabric to be selected by Engineer from manufacturer's standard colors.

Commercial and industrial fence fabric shall be 9 gage, in 2-inch mesh. Residential fence fabric shall be 11 ½ gage minimum, in 2 ¼ inch mesh. For Type I, II, and III fabric, gage of wire specified is the finished wire diameter. For Type IV fabric, gage of wire specified is for the metallic-coated core wire.

Fabric less than 6 feet high shall be knuckled at both selvages. Fabric 6 feet or higher shall be knuckled at one selvage and twisted at the other, and installed at the direction of the Engineer.

Each roll of fabric shall carry a tag showing the kind of base metal, the kind of coating, the gage of wire and the name of the manufacturer.

(2) Wire. Wire fabric ties, wire ties, and tension wire for use in conjunction with a given type of fabric shall be of the same material identified with the fabric type. The tension wire shall be 7 gage for commercial, and 9 gage for residential, coiled spring wire coated similarly to the respective wire fabric being used. Wire fabric ties shall

be hog rings, aluminum wire, or 12 gage galvanized steel wire or 9 gage aluminum wire.

(3) Steel Posts, Rails, and Braces. Posts, rails, and braces furnished for use in conjunction with galvanized steel fabric shall be of zinc-coated steel or aluminum-coated steel pipe; those furnished for use in conjunction with aluminum alloy fabric shall be aluminum alloy; and those furnished for use in conjunction with PVC coated fabric shall be PVC coated. Posts, rails, and braces shall comply with AASHTO M181. Fence posts and rails shall consist of either galvanized steel or aluminum alloy. Galvanized steel pipes shall be standard weight Schedule 40 and shall be provided in the nominal sizes and weight per foot listed in Table 1 of ASTM F1083 and as designated on the Standard Drawings. Aluminum alloy pipes shall be alloy 6063-T6 Schedule 40, shall conform to the requirements of ASTM B 429, and shall be provided in the nominal sizes listed on the Standard Drawings.

(4) Hardware and Fittings. Hardware and fittings shall conform to ASTM F626. Any miscellaneous hardware or fittings not listed shall be galvanized in accordance with ASTM A123 or A153 (AASHTO M111 or M232).

(5) Gates. Chain-link gate frames shall consist of galvanized steel pipe, aluminum coated steel pipe, or aluminum pipe and conform to the specifications for the fence fabric and pipe furnished in conjunction with the gate. Frames may either be fastened at the corners by clamps and braces or welded. If steel is used the entire weld shall be galvanized. For double gates, gate stops shall be provided, set in concrete, and designed to engage center drop rod or plunger bar. Include locking device and padlock eyes as integral part of latch, permitting both gate leaves to be locked with single padlock.

907.04 CONSTRUCTION REQUIREMENTS.

(a) GENERAL. The fence shall be constructed in accordance with the plans and as specified herein. The finished fence shall be plumb, taut, true to line and ground contour, and complete in every detail.

The Contractor shall be responsible for maintaining accurate position and alignment of the fence. The Contractor shall preserve and protect all survey and right-of-way markers.

The Contractor shall schedule and arrange all work to maintain and protect livestock on adjoining property.

The connection or bracing of any part of the fence to trees will not be permitted. The new

fence shall be permanently tied to the terminals of the existing fences whenever required by the Engineer.

Clearing shall be performed as necessary to construct the fence and shall be as specified in other sections of these specifications.

During post installation, when solid rock is encountered with an overburden of loose rock or soil, the posts shall be set to the required depth for soil unless the penetration into solid rock exceeds 10 inches for line posts and 16 inches for end, corner, gate and pull posts. In such cases, the posts shall be set into the solid rock a minimum depth of 10 inches for line posts and 16 inches for end, corner, gate and pull posts. The hole in the rock shall have a minimum cross section dimension one inch greater than the post to be set. The posts shall be cut prior to setting to give the proper length above ground surface. The hole shall be filled with Class "B" concrete or a grout consisting of one part Portland cement and three parts concrete sand.

Where the new fence joins an existing fence, the two shall be attached in a satisfactory manner, with end posts being set as directed. Where the proposed fence intersects an existing fence, the end post shall be set for the proposed fence clear of the existing fence line. The existing fence shall be connected to the end post. When the point of intersection falls more than 2 feet from a post on the fence, a line post shall be set at the intersection.

(b) CHAIN LINK FENCE. All posts shall be set in concrete as shown on the plans, plumb and true to line and grade. The concrete shall be thoroughly tamped around the posts. The posts shall be equally spaced in the line of fence not to exceed the spacing shown on the plans. The top of the footing shall be domed to drain water away from the post. Concrete in post footings shall be 7 days old before stretching and securing fabric to posts, bracing or hanging gates.

Top rails, when required, shall pass through post caps and shall be securely fastened to end, brace, pull and corner posts. Joints in top rail shall be made with expansion sleeve couplings, to provide a substantial connection and allow for expansion and contraction of the rail.

Before the fence fabric is placed, the tension wire shall be placed at the proper location, stretched taut, securely anchored to each end, corner or intermediate braced post and satisfactorily fastened to each line post.

The fence fabric shall be attached to the face of the post as noted on the plans or directed by the Engineer, except on curves, where the fabric shall be placed on the outside of the curve.

The end of the fabric shall be attached to the posts by means of a stretcher bar threaded through the end loops of the fabric and secured to the posts with clamps and bolts. The fabric shall be stretched to remove all slack with approved stretching equipment. The stretched fabric shall be secured to line posts, top rail, braces and tension wire with specified fabric fasteners. Fabric fasteners shall be placed on line posts at not greater than 14" centers and on top rail, braces and tension wire at not greater than 24" centers. Stretching operations shall be repeated at approximately every 100' for each run of fence.

Splicing of the fabric shall be done by interweaving a wire picket through each end loop of each piece of fabric in a manner that will neatly and securely fasten the lengths of fabric together.

Gates of the length and type shown on the plans shall be constructed at the location shown on the plans or as directed.

(c) REMOVAL AND RECONSTRUCTION OF FENCES.

(1) REMOVAL AND STORAGE. Care shall be taken in the removal of materials to prevent damage to posts, fencing, wire, gates, or other accessories. Fencing shall be coiled and tied tightly before storing. Fittings shall be tied together in bundles or boxed. Posts and other such items shall be neatly stacked on blocks to prevent contact with the ground. Excess fence materials removed from sections of fence, which are not to be relocated, shall be disposed of by the Contractor as specified in other sections of the specifications.

(2) RECONSTRUCTION. The fence shall be reconstructed in a workmanlike manner to the line shown on the plans or established by the Engineer. Reconstruction of the fence shall, in general, conform to the requirements for new fence as specified above and shall provide a fence equal to or better than the original.

(d) TEMPORARY FENCING. If Required, Temporary fencing shall be installed within 48 hours of removal of the existing fence. The Contractor shall determine the most suitable locations for temporary fencing in coordination with the property owner and subject to approval by the Engineer. Temporary fencing shall be maintained for the duration of the project and shall be removed only after the permanent fencing has been installed. Existing fence materials shall be reused for temporary fencing where practicable and include the installation of temporary gates in locations closely approximating the existing gate locations. Temporary fencing shall provide a degree of security from intrusion equivalent to that provided by the existing fence.

907.05 MEASUREMENT AND PAYMENT.

Fence will be measured by the linear foot in place from outside to outside of the end posts. The length of gates will be excluded from this measurement. Gates will be measured by the unit.

Fences and gates completed and accepted under this item and measured as provided above will be paid for at the contract unit price per linear foot of the fence type and height specified and per each gate of the type and dimensions specified.

Temporary fencing, removal and disposal of existing fencing and relocation of existing fencing shall be measured by the linear foot. Gates removed or relocated or temporary gates associated with these pay items shall be considered incidental.

The contract unit prices mentioned above shall be full compensation for demolition of existing fence, clearing, grading, setting posts, concrete, erecting the new fence, excavation and backfill, materials and for all equipment tools, labor and incidentals necessary to complete the work. When the bid form does not contain an item for the construction, relocation, or removal and disposal of fences, the work will not be paid for directly, but will be considered incidental to Section 201 of these specifications.

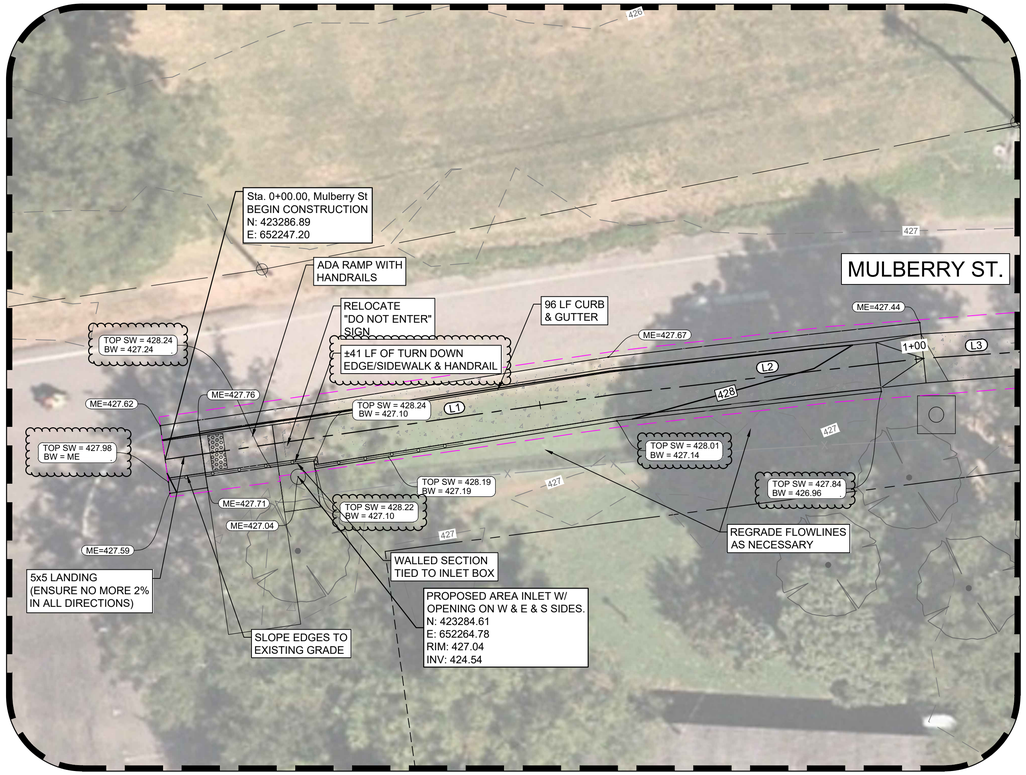
No separate payment will be made for rock excavation required for fence construction.

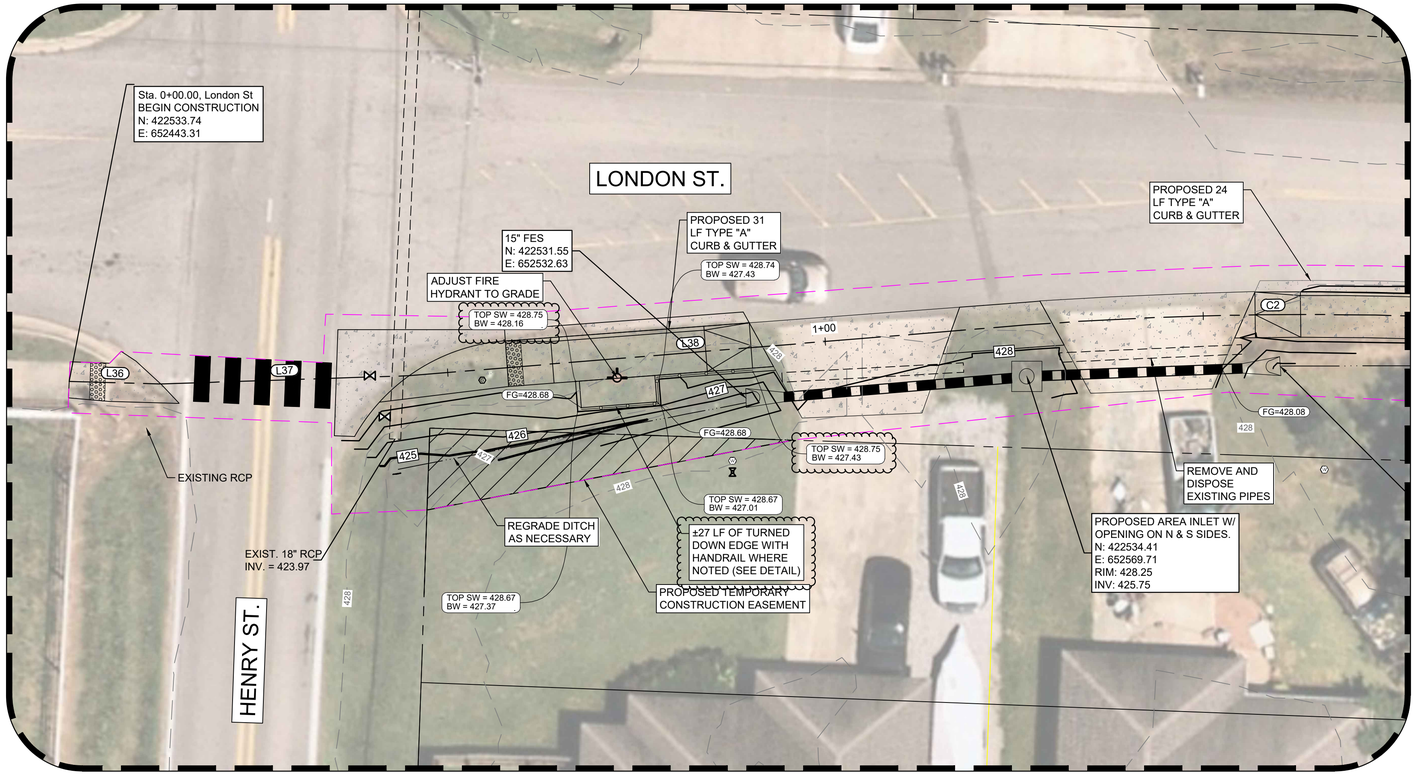
No separate payment will be made for stream or channel crossings unless otherwise specified. These structures will be included in the measurement and payment for fence as stated above.

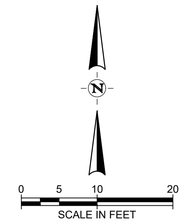
No separate payment will be made for termination or connection of existing fences.

Payment will be made under:

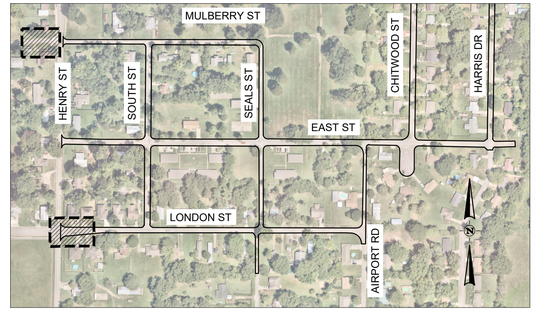
Pay Item	Pay Unit
Gates – Chain Link 4 ft. width	Each
Remove and Reconstruct 4’ Chain Link Fence	Linear Foot







KEY MAP:



LEGEND:

400	PROPOSED CONTOUR
400	EXISTING CONTOUR
BW = ???	BOTTOME OF WALL ELEVATION
FG = ???	FINISHED GRADE ELEVATION
ME = ???	MATCH EXISTING ELEVATION
TOP SW = ???	TOP OF SIDEWALK ELEVATION

2023 SOUTHSIDE SIDEWALK IMPROVEMENTS

ISSUED FOR BID: OCTOBER 30, 2026

halff
5704 ELMER LN., SUITE 200
FORT SMITH, ARKANSAS 72903
TEL. (479) 452-1933

REVISION NO.	DATE	DESCRIPTION

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20756
ALLEN T. DEAVER
10/30/26
The Original Signed and Sealed Document is on file at the Office of Record

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:

ALLEN T. DEAVER — 20756
NAME — PE LICENSE NO.

10/30/2026
DATE

THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF:

HALFF ASSOCIATES, INC.

1470 — AR
FIRM OR BUSINESS NO. — STATE

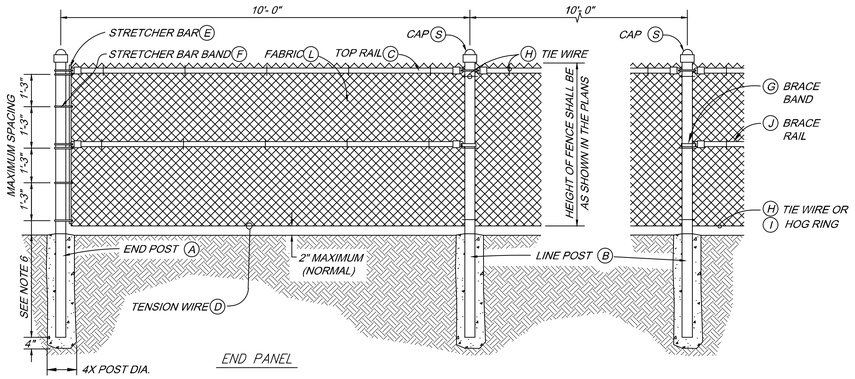
PROJECT NO.:	54988
ISSUED:	10/30/2026
DRAWN BY:	CR
CHECKED BY:	AD
SCALE:	1" = 10'

SHEET TITLE:

GRADING PLAN

11

FILE NAME: A:\54000s\54988\001\PWCADD\Sheets\C-PLAN-SIDEWALK.dwg DATE: October 29, 2026, TIME: 5:38 PM, USER: ah5780



END PANEL

(D) TENSION WIRES: TENSION WIRES SHALL BE SECURED TO ALL TERMINAL, PULL, BRACE, OR CORNER POSTS WITH STRETCHER BANDS.

(J) BRACE RAILS: BRACE RAILS SHALL BE PROVIDED AT ALL TERMINAL, PULL, BRACE, OR CORNER POSTS HALFWAY BETWEEN THE TOP RAIL AND GROUND LEVEL, AND SHALL EXTEND FROM SUCH POST TO THE FIRST ADJACENT LINE POST.

(L) FABRIC: ALL CHAIN-LINK FENCE FABRIC SHALL CONSIST OF WOVEN WIRE IN THE FORM OF APPROXIMATELY UNIFORM SQUARE MESH, HAVING PARALLEL SIDES AND HORIZONTAL AND VERTICAL DIAGONALS OF APPROXIMATELY UNIFORM DIMENSIONS.

(M) GATE FRAMES: GATE FRAMES SHALL BE CONSTRUCTED OF TUBULAR MEMBERS ASSEMBLED BY USE OF HEAVY PRESSED STEEL, MALLEABLE FITTINGS OR BY WELDING. ALL GATES SHALL HAVE ONE HORIZONTAL SUPPORT EXTENDING THE WIDTH OF THE GATE AT THE MIDPOINTS OF VERTICAL FRAME MEMBERS. THE COMPLETE FRAME SHALL BE RIGID AND HAVE AMPLE STRENGTH TO BE FREE FROM SAG AND TWIST.

(O) HINGES: HINGES SHALL BE OF HEAVY PATTERN, OF ADEQUATE STRENGTH FOR GATE, AND WITH LARGE BEARING SURFACES FOR CLAMPING IN POSITION. THE HINGE SHALL BE OF THE PROPER TYPE TO ALLOW FOR A FULL 180 DEGREE OF SWING. THE HINGE SHALL NOT TWIST OR TURN UNDER THE ACTION OF THE GATE. THE GATES SHALL BE CAPABLE OF BEING OPENED AND CLOSED EASILY BY ONE PERSON.

(P) LATCHES AND STOPS: LATCHES AND STOPS SHALL BE PROVIDED FOR ALL GATES. DOUBLE GATES SHALL HAVE A DROP BAR LATCH. LATCHES SHALL BE ARRANGED FOR LOCKING. THE STOP FOR DROP BAR LATCHES SHALL BE SET IN CONCRETE AND ENGAGE THE PLUNGER OF THE BAR LATCH.

(S) CAPS: ALL POSTS, EXCEPT ROLL FORMED POSTS, SHALL BE CAPPED.

CLASS "B" CONCRETE: CLASS "B" CONCRETE REQUIRED FOR THE EMBEDMENT OF ALL POSTS SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR CHAIN-LINK FENCE.

POSTS: POSTS SHALL BE SPACED EQUIDISTANT ON A MAXIMUM OF 10' CENTERS.

EXCAVATION FOR POSTS: EXCAVATION FOR POSTS IN OTHER THAN ROCK SHALL BE OF THE DIMENSIONS INDICATED. IF ROCK IS ENCOUNTERED BEFORE REACHING THE REQUIRED DEPTH, THE EXCAVATION SHALL BE CONTINUED TO THE DEPTH INDICATED OR 1'-6" INTO THE ROCK, WHICHEVER IS LESS, AND SHALL BE A MINIMUM OF 8" IN DIAMETER.

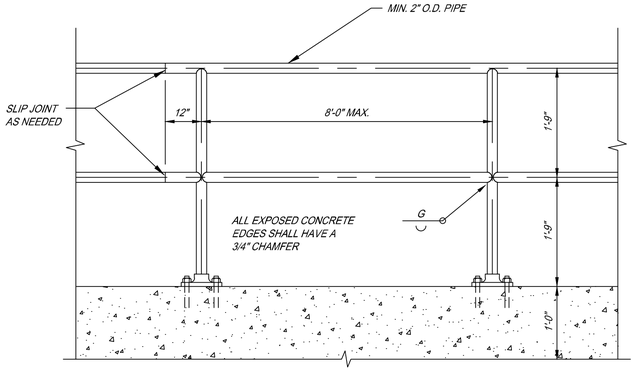
HEIGHT OF FENCE FABRIC	(A) END, PULL, CORNER OR BRACE POST	(B) LINE POST		(C) TOP RAIL			(D) TENSION WIRE		(E) STRETCHER BAR		(F) STRETCHER BAR BAND			(G) BRACE BAND	
	NOMINAL SIZE	NOMINAL SIZE	TIE SPACING	NOMINAL SIZE	TIE SPACING	MINIMUM LENGTH	SIZE	TIE SPACING	SIZE	LENGTH	SIZE	BOLT SIZE	SPACING	SIZE	BOLT SIZE
COMMERCIAL 6' AND LESS	2½ " O.D. OR 3½" x 3½" R.F.	2" O.D. OR H-2.72#	1 TIE EVERY 1'-2" OF FABRIC HEIGHT	1⅝" O.D. OR 1¼" x 1⅝" R.F.	1 TIE EVERY 2'-0"	10'-0"	7 GAGE	1 TIE EVERY 24"	¼" x ¾"	1" LESS COIL FABRIC HEIGHT	¾" x 0.781"	⅝" x 1¼"	1 BAND AT TOP AND BOTTOM; 15" MAXIMUM INTERVAL BETWEEN BANDS	¾" x 0.1093"	⅝" x 1¼"
COMMERCIAL OVER 6' TO 12' INCL.	3" O.D. OR 3½" x 3½" R.F.	2 " O.D. OR H-4.1#													
RESIDENTIAL TO 4' HIGH	2" O.D.	1⅝" O.D.		1⅜ " O.D.			9 GAGE							SEE NOTE 5	
RESIDENTIAL 6' HIGH	2⅜ " O.D.	2" O.D.		1⅝ " O.D.											

HEIGHT OF FENCE FABRIC	(H) TIE WIRE	(I) HOG RING	(J) BRACE RAIL		(L) FABRIC			(M) GATE FRAME		(N) SUPPORTS		(O) HINGE TYPE	(T) GATE POST	
			NOMINAL SIZE	TIE SPACING	SIZE	MESH	SELVAGE	NOMINAL SIZE	TIE SPACING	NOMINAL SIZE	TIE SPACING	180° SWING	GATE LEAF WIDTH 12' & LESS	GATE LEAF WIDTH 12' TO 18'
													NOMINAL SIZE	
COMMERCIAL 6' AND LESS	12 GAGE STEEL OR 9 GAGE ALUM.	SAME GAGE AS FABRIC	1⅝" O.D.	1 TIE EVERY 2'-0"	9 GAGE	2"	SEE NOTE 8	2" O.D.	1 TIE EVERY 1'-0"	2" O.D.	1 TIE EVERY 1'-0"	OFFSET	2 ⅞" O.D. OR 3½" x 3½" R.F.	4" O.D.
COMMERCIAL OVER 6' TO 12' INCL.													4" O.D. OR 3½" x 3½" R.F.	6⅝" O.D.
RESIDENTIAL TO 4' HIGH			SEE NOTE 5		11½ GAGE	2¼"		1⅜" O.D.		1⅜" O.D. SEE NOTE 9			1⅞" O.D.	N/A
RESIDENTIAL 6' HIGH													2⅜" O.D.	

NOTES:

1. POST SIZES SHOWN ARE FOR STEEL. WHERE ALUMINUM IS PROVIDED, LINE POSTS SHALL HAVE A NOMINAL OUTSIDE DIAMETER OF 2" FOR FENCE HEIGHT 6' AND LESS; NOMINAL OUTSIDE DIAMETER OF 3" FOR FENCE HEIGHT 6' TO 12' INCLUDED. END, PULL, CORNER, OR BRACE POSTS SHALL HAVE A NOMINAL OUTSIDE DIAMETER OF 3" FOR FENCE HEIGHT 6' AND LESS; NOMINAL OUTSIDE DIAMETER OF 3" FOR FENCE HEIGHT 6' TO 12' INCLUDED. GATE POSTS WHERE GATE WIDTH IS 12' AND LESS SHALL HAVE A NOMINAL OUTSIDE DIAMETER OF 3" FOR FENCE HEIGHT 6' AND LESS. TENSION WIRE SHALL BE 0.192" IN DIAMETER. MINIMUM THICKNESS OF MATERIAL FROM WHICH EXPANSION SLEEVES SHALL BE MADE SHALL BE 0.078". ALL CONFORMING TO REQUIREMENTS OF AASHTO DESIGN M181.
2. OTHER DETAILS APPLY TO BOTH STEEL AND ALUMINUM FENCE.
3. ALL MISCELLANEOUS FITTINGS AND HARDWARE FURNISHED FOR USE IN CONJUNCTION WITH ZINC-COATED STEEL FABRIC AND ALUMINUM COATED STEEL FABRIC SHALL BE OF ZINC-COATED STEEL, AND THOSE FURNISHED FOR USE IN CONJUNCTION WITH ALUMINUM ALLOY FABRIC SHALL BE OF ALUMINUM ALLOY. 9 GAGE ALUMINUM WIRE SHALL BE ACCEPTABLE FOR TYING FABRIC TO TUBULAR AND ROLL FORMED MEMBERS OF STEEL FENCE.
4. DETAIL FC.3.2 SHALL BE USED FOR CONNECTION IF FENCE IS TO BE ATTACHED TO A CONCRETE WALL OR SLAB.
5. RESIDENTIAL FENCE SHALL BE INSTALLED USING 11 1/2 GAGE FABRIC. BRACE RAIL, AND BRACE BANDS ARE NOT REQUIRED IF RESIDENTIAL FENCE IS 6' HIGH OR LESS.
6. POST DEPTH IS A MINIMUM OF 3'-0" FOR COMMERCIAL AND 2'-0" FOR RESIDENTIAL. GATE POST DEPTH SHALL BE A MINIMUM OF 3'-0" FOR GATES LEAFS UP TO 12' WIDE AND 3'-6" FOR LEAFS UP TO 18' WIDE.
7. BRACE PANEL SHALL BE PLACED A MAXIMUM OF 500 FEET CENTER TO CENTER FROM END, CORNER, OR BRACE POSTS. ANY BREAKS IN HORIZONTAL ALIGNMENT OF MORE THAN 30" SHALL BE CONSIDERED A CORNER.
8. FABRIC LESS THAN 6 FEET HIGH SHALL BE KNUCKLED AT BOTH SELVAGES. FABRIC 6 FEET OR HIGHER SHALL BE KNUCKLED AT ONE SELVAGE, AND TWISTED AT THE OTHER. FABRIC TO BE INSTALLED AS DIRECTED BY THE ENGINEER.
9. RESIDENTIAL GATES LESS THAN 6 FEET HIGH DO NOT REQUIRE VERTICAL AND DIAGONAL SUPPORTS.

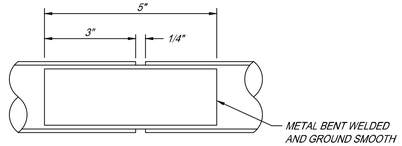
STANDARD FENCING
N.T.S.
FC.1.1



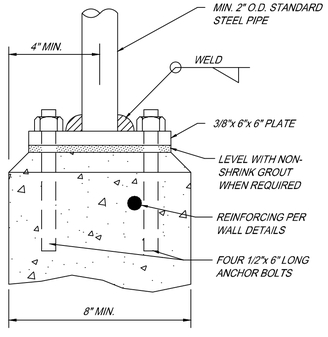
BARRIER RAIL
N.T.S.
FC.3.1

NOTES:

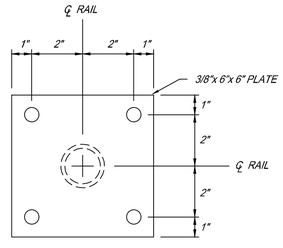
1. SLIP JOINTS SHALL BE INSTALLED IN SECTION OF RAIL SPANNING EXPANSION JOINTS IN STRUCTURE.
2. EMBEDDED HANDRAIL MOUNTING TO BE USED ONLY WITH PRIOR APPROVAL BY THE ENGINEER.



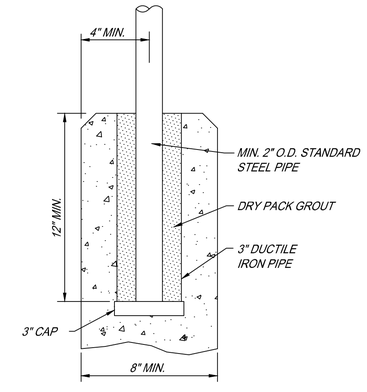
SLIP JOINT
N.T.S.
FC.3.4



CONNECTION
N.T.S.



BASE PLATE
N.T.S.
FC.3.2



EMBEDMENT DETAIL
N.T.S.
FC.3.3

2023 SOUTHSIDE SIDEWALK IMPROVEMENTS

ISSUED FOR BID: OCTOBER 30, 2026

halff
5704 ELPER LN, SUITE 200
FORT SMITH, ARKANSAS 72903
TEL. (479) 452-1933

REVISION NO.	DATE	DESCRIPTION

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20756
ALLEN T. DEAVER
10/30/26
The Original Signed and Sealed Document is on file at the Office of Record

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:

ALLEN T. DEAVER — 20756
NAME — PE LICENSE NO.
10/30/2026
DATE

THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF:

HALFF ASSOCIATES, INC.

1470 — AR
FIRM OR BUSINESS NO. — STATE

PROJECT NO.:	54988
ISSUED:	10/30/2026
DRAWN BY:	CR
CHECKED BY:	AD
SCALE:	

SHEET TITLE:

DETAILS 5

FILE NAME: A:\54000s\54988\001\PWCADD\Sheets\C-PLAN-DETAILS.dwg DATE: October 29, 2026, TIME: 5:41 PM, USER: ahi5780