



ADDENDUM NO. 03 ISSUED: 9.02.2026

**to the Project Manual and Drawings for
UAPB Pedestrian Mall - Phase 1 (TAP-16)(S)
ARDOT PROJECT # 020673**

1424 S Main St #105
Little Rock, AR 72202
501.375.0378
amr-architects.com

This addendum forms a part of the contract documents and modifies or interprets the Project Manual and/or Drawings as noted herein.

SUBSTITUTION REQUESTS:

1. **EZ Roll™ Grass Pavers**, manufactured by **NDS®**, in lieu of **TruGrid**.

Response: This is an acceptable substitution. Product data attached.

REFER TO THE PROJECT MANUAL:

1. Refer to attached revised 00 01 10 TABLE OF CONTENTS
 - a. Corrected section references noted herein
2. Refer to attached revised 00 41 00 BID FORM
 - a. Updated Bid Date per Addendum 2
 - b. Updated Bid Schedule as noted herein
 - c. Note: Bid Form Attachments not re-issued / no changes from original issuance
3. Refer to attached revised 01 40 00 QUALITY REQUIREMENTS
 - a. Corrected items referenced in RFI-016 herein
4. Add attached Section 32 14 33 PERMEABLE PLASTIC PAVING.

REFER TO THE DRAWINGS:

1. Refer to attached revised drawing SHEET C-001 for revised quantities.
2. Refer to attached revised drawing SHEETS C-103 for location of statue.
3. Refer to attached revised drawing SHEETS C-109 for acreage summary.
4. Refer to attached revised drawing SHEETS C-110 for corrected sheet name.
5. Refer to attached revised drawing SHEETS C-502 for updated concrete pavement jointing detail.



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RFIs:

1. Do the pull boxes receive concrete aprons?

Response: Pull boxes do not require concrete aprons.

2. Should ground rods be installed at each light pole?

Response: No, they will be connected to the grounding electrode system already established in the building via the equipment ground and should be bonded to the pole base rebar via the ground lug to be installed on the pole. Contractor shall refer to Detail 2 Pedestrian Pole Base Detail on Sheet E101.

3. Regarding keyed note (1) on Sheet E101: Is it correct that an existing conduit is stubbed outside of the south vestibule 1000S / lobby 1000? Are any new penetrations into the building required?

Response: During design of this project, Pettit contacted Gigerich Electrical, the contractor who worked on the Student Engagement Center, to discuss stub out locations. Gigerich Electrical informed Pettit the stub outs were located outside of the South vestibule 1000S/ Lobby 1000. Bidding contractors shall field verify the exact locations of these conduits.

4. Are the only expected utility relocations to take place are the two sanitary manhole lids being adjusted?

Response: Adjusting rim elevations on two sanitary sewer manholes lids is the only work that's expected to be part of the ArDOT reimbursable portion of the project. The contractor is responsible for completing a one-call and coordinating with the owner to locate private utilities within the work area.

5. Regarding temporary barricades—is the contractor expected to install a 6' chain-link fence around the entire perimeter of the disturbed area?

Response: A 6' chain-link fence will be required around the entire perimeter of the construction area.



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6. The electrical data shows the fixtures are 480V, however the branch circuit home run shows hot neutral ground which is not 480v?

Response: The Symbol Legend identifies the meaning of each conductor mark shown on a branch-circuit homerun: the long line represents an ungrounded conductor ("hot"), the shorter line represents a neutral conductor, and the S-shaped line represents an equipment-grounding conductor. The homerun serving the site-lighting fixtures shows two ungrounded conductors and one equipment-grounding conductor, which is consistent with the scheduled 480-volt, single-phase circuit supplied from a two-pole breaker. A neutral conductor is not required for the scheduled 480-volt luminaires. Provide two ungrounded conductors and one equipment-grounding conductor for this circuit, unless otherwise indicated. No revision to the circuit voltage is required.

7. Could we please have access to the panel info for the correct breaker?

Response: Provide one new 20-amp, two-pole circuit breaker in existing Panel 1HB as indicated by Keyed Note 1 on Sheet E101. The breaker shall be listed for use with the existing panel and shall match the existing panel manufacturer, type, voltage rating, and interrupting rating. The Contractor shall field-verify the existing panel information before ordering the breaker. The submittal for panel 1HB has been attached for the contractor's reference. However, field verification should still be required because this is existing equipment.

8. The conduit is called out as PVC sch 80 for underground; can you confirm that is correct?

Response: Confirmed. Underground conduit serving the site-lighting system shall be Schedule 80 PVC as indicated by Detail 2/E101. Provide rigid galvanized steel elbows where conduits turn upward into the light-pole foundations, as shown in the detail.

9. Under general notes #13, the documents refer to devices as 20 amp. However I don't see any devices on the plans. Are there outlets in the poles?

Response: No receptacles or other wiring devices are required in the light poles. General Note 13 is a standard electrical note and is not applicable to this site-lighting installation. The poles are only intended to serve the scheduled luminaires.



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10. Where is the conduit stub out located from the building?

Response: Connect to the existing conduit located at the South Vestibule 1000S/Lobby 1000 area, as indicated by Keyed Note 1 and the two Keyed Note 1 callouts on Sheet E101. The Contractor shall field-verify the precise location of the existing conduit before beginning work.

11. Is there room in the LCP for our wire to land?

Response: Yes, the lighting circuit is intended to be controlled through a spare relay in existing Lighting Control Panel 1LCP and programmed to operate with the existing building-mounted photocell. The Contractor shall field-verify the available relay position. Programming and commissioning should be included in the electrical scope, with final operating schedules coordinated with the Owner.

ADDITIONAL RFIs PER DIVISION:

DIVISION 00 — PROCUREMENT AND CONTRACTING REQUIREMENTS

RFI-001 Unit prices or stipulated sum

Ref: AIA A101–2017 (Stipulated Sum form), Section 4.4 left blank; Bid Schedule 00 41 00; ARDOT Subsections 109.01– 109.07

Question: Will we be paid for actual measured quantities at the unit prices, or is the Contract Sum fixed at the estimated quantities shown? If unit price, do ARDOT Subsections 104.02(a) and 104.02(b) govern quantity variations, and are any items designated plan quantity under 210.12(d)?

Response: The contractor will be paid for actual measured quantity at the unit prices. Increases or decreases in plan quantity will be by change order.

RFI-002 Contract Documents are not enumerated

Ref: AIA A101–2017, Article 9 — all blank; AIA A201–2017, Section 1.1.1

Question: Is the ARDOT Standard Specifications for Highway Construction, 2014 Edition incorporated into this Contract, and if so by what document?

Response: ARDOT specs provide guidance for material and execution requirements for items not covered by a CSI format section included in the project manual



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RFI-003 Order of precedence

Ref: ARDOT Subsection 105.05; no order-of-precedence article in the Project Manual

Question: Which document governs when the ARDOT specifications and the AIA documents conflict?

Response: The AIA document will govern. ARDOT specs provide guidance for material and execution requirements for items not covered by a CSI format section included in the project manual

RFI-004 Sixteen Supplemental Specifications were not issued

Ref: Table of Contents 00 01 10 lists SS 102-2, 100-3, 100-4, 105-4, 107-2, SP 108-1, SS 108-2, 210-1, 303-1, 306-1, 501-2, 502-1, 606-1, 633-1, 723-1, 729-1 and 802-4; none appear in the Project Manual

Question: Will all sixteen be issued by Addendum?

Response: For ArDOT funded projects, Supplemental Specification (SS's) are not included in project manuals and instead are incorporated into the project by reference. These are documents prepared by ArDOT that are uniform for all projects to which they apply. The Standard and Supplemental Specifications can be found on ArDOT's website at <https://ardot.gov/divisions/construction/standard-specifications/>

RFI-005 Reference to an A101 Exhibit A that was not issued

Ref: AIA A101–2017, Sections 8.5.1 and 8.5.2 require insurance and bonds as set forth in A101 Exhibit A, which was not issued; the modified Article 11 of AIA A201–2017 states the insurance limits and the bond requirements directly.

Question: Please confirm that the modified Article 11 of A201 governs insurance and bonds, and that no A101 Exhibit A will be issued.

Response: Modified Article 11 of A201 governs insurance and bonds. No A101 Exhibit A will be issued.

RFI-006 Wage determination omits several trades

Ref: General Decision AR20260166 (Jefferson County, Highway construction type) included in the Project Manual lists no rates for landscaping, mechanical, plumbing or electrical classifications; the project includes irrigation, planting and site illumination work

Question: Please provide the applicable prevailing wage rates for landscaping, mechanical, plumbing and electrical work.

Response: To be addressed in Addendum 4



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RFI-007 Calendar days or working days

Ref: A101 Section 3.3.1 and Bid Form paragraph 6 state 120 calendar days; SP-6 applies a working day contract and carries a blank date reading "XXXXXX XX, 2021"

Question: Is contract time charged in calendar days or working days, and will a corrected SP-6 be issued?

Response: This will be a calendar day contract. The beginning and end of work will be established in the Project Notice to Proceed. Working day contract language does not apply and SP-6 will not be reissued.

RFI-008 Liquidated damages rate

Ref: Bid Form paragraph 7 and A101 Section 4.5 state \$250 per calendar day;
SP 108-1 was not issued.

Question: Will SP 108-1 be issued or is A101 Section 4.5? What will be enforced?

Response: Liquidated damages will be established by the instructions to bidders, bid form, and AIA agreements. ARDOT specification to not apply to construction contract administration and only provide guidance for material and execution requirements for items not covered by a CSI format section included in the project manual

RFI-009 Payment cycle and retainage

Ref: A101 Sections 5.1.2 and 5.1.7.1 and modified A201 Sections 9.3.1.1 and 9.8.5 provide monthly applications with 5 percent retainage released at Substantial Completion, and modified A201 Sections 9.4.3 and 9.4.4 apply the Arkansas Code 19-4-1411 processing times; ARDOT Subsection 109.07(a) provides Engineer estimates at two-week intervals at unit prices

Question: Will payment be monthly on AIA G702/G703 with 5 percent retainage, or at two-week intervals by the Engineer at unit prices?

Response: Monthly on the AIA G702/G703.

RFI-010 Differing site conditions and claim routing

Ref: SP-4 requires written notice before the conditions are disturbed and before the affected work is performed, and bars any adjustment without it; A201 Section 3.7.4 requires notice before the conditions are disturbed and no later than 14 days after first observance; A201 Section 15.2 makes the Architect the Initial Decision Maker and modified Section 15.3.1 makes the Arkansas State Claims Commission the exclusive forum

Question: Does SP-4 govern notice of a differing site condition, and where does the ARDOT Section 105 dispute process fit in relation to the initial decision and the Claims Commission?

Response: AIA documents and UAPB standard procedures will govern dispute resolutions.



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RFI-011 Cross-references to sections that do not exist

Ref: Section 01 20 00 cites Section 00 50 00; Section 01 25 00 cites Section 00 21 10; the Table of Contents lists the UAPB Rider as "05 52 16" and lists 26 05 00 twice

Question: Will corrected cross-references be issued, and what is the deadline for substitution requests during bidding?

Response: Section 00 50 00 is not included in this project / disregard reference. Relevant contracting forms and supplements are included individually as noted in Division 00. The referenced "00 21 10" should read "00 21 00 - Instructions to Bidders". UAPB Rider is section 00 52 16 and has been corrected on the attached revised Table of Contents. Lighting is section 26 50 00 and has been corrected on the attached revised Table of Contents.

RFI-012 Deductive alternates

Ref: Bid Form 00 41 00 contains no alternates; AIA A101-2017 Section 4.2 (Alternates) is not completed

Question: Does the Owner intend to add deductive alternates to the Bid Form by Addendum, and will voluntary alternates proposed by a bidder be considered?

Response: There are no alternates on this project. No voluntary alternates should be proposed prior to bid.

DIVISION 01 — GENERAL REQUIREMENTS

RFI-013 Item 201 Mobilization / Site Preparation

Ref: ARDOT Section 201 is Clearing and Grubbing; Mobilization is Section 601

Question: Is Section 601 the intended section, and does this lump sum item include clearing and grubbing?

Response: No, Mobilization and Clearing and Grubbing are to be paid under item 201.

RFI-014 Mobilization cap and payment schedule

Ref: The Bid Schedule item is numbered 201 but is named Mobilization. ARDOT Subsection 601.02 provides that "IN NO CASE SHALL THE AMOUNT BID FOR THE ITEM OF MOBILIZATION EXCEED 5% OF THE TOTAL CONTRACT AMOUNT FOR ALL OTHER ITEMS LISTED IN THE PROPOSAL," and that the Engineer will reduce any amount above that to determine the correct total bid. Subsection 601.02 also sets a partial payment schedule of 25 percent at the first progress estimate, 50 percent at 10 percent of the contract earned, and 100 percent at 25 percent earned

Question: Does ARDOT Subsection 601.02 govern this item, including both the 5 percent cap on the amount bid and the partial payment schedule? If not, how is this lump sum item to be priced and paid?



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Response: There is no 5% cap. Site prep and mobilization should be paid under item 201 according to the % complete per pay period..

RFI-015 Who performs and pays for testing

Ref: Section 01 40 00 paragraph 1.04.A puts all testing on the Contractor; ARDOT Subsections 633.02 and 641.02 say the Department performs acceptance testing; Subsection 634.02 says the Contractor does; SS 306-1 was not issued

Question: By pay item, who performs and who pays for quality control testing and for acceptance testing?

Response: All material testing and reporting shall be paid for by the contractor.

RFI-016 Section 01 40 00 requires reissue

Ref: Section 01 40 00 has an empty paragraph 1.05 (Testing and Inspection Agencies and Services), a Part 2 mislabeled "PART 3 EXECUTION," and a paragraph 1.01 listing items E and F that never appear in the body

Question: Will Section 01 40 00 be reissued complete?

Response: Section reissued as part of this addendum

RFI-017 Approved equals

Ref: Sheet E101 names Cooper fixtures and Sheet C-501 names TrueGrid, both without "or equal"; Section 26 05 00 paragraph 1.4.B permits approved equals; 23 CFR 635.411 restricts proprietary specification on federal-aid work

Question: Will approved-equal submittals be accepted for the fixtures and the grass paving product?

Response: Any products listed by proprietary name are to be considered "Basis of Design" for intended style and quality. Approved equals will be considered for all products.

RFI-018 Buy America and BABA

Ref: Advertisement 00 11 13 invokes Build America, Buy America; Special Provision SP-2 and FHWA-1273 Section VII also apply

Question: Which materials are subject to these provisions, and what certification is required and when?

Response: The contractor is responsible for familiarizing themselves with the requirements of SP-2. Please refer to FHWA Buy American Construction Program Guide at <https://www.fhwa.dot.gov/construction/cqit/buyam.cfm>



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RFI-019 Temporary parking and storage areas

Ref: Sheet C-109, Phase I, Note 2 requires the Contractor to prepare temporary parking and storage areas including trailer, parking, lay down, porta-potty, wheel wash, concrete wash-out, fuel and material storage containers and solid waste containers

Question: Are these temporary parking and storage areas for the Contractor's forces only, or will students, faculty or Owner personnel also use them?

Response: Temporary facilities need only accommodate contractor / subcontractor forces. Any intended use by the contractor of campus property outside of the scope of work (ie. adjacent parking lots) must be coordinated with and approved by the owner as part of the Logistics Plan to be submitted prior to the Notice to Proceed.

DIVISION 02 — EXISTING CONDITIONS

RFI-020 Relocation of the existing statue

Ref: Sheet C-101 shows a callout to relocate an existing statue; no detail, dimensions, weight, destination or reinstallation requirement is given, and no pay item covers the work

Question: Please provide the full scope for the statue — removal and transport, whether it is to be reinstalled under this Contract or delivered to the Owner for storage, the destination, and who bears responsibility for protection and any damage in transit.

Response: Reinstall statue on new pavement near south end of scope of work as indicated on drawing. Statue to be mounted securely to pavement. Refer to reissued sheet C-103

RFI-021 Relocation of an existing light pole

Ref: Sheet C-102 shows a callout to relocate an existing light pole; no detail, destination or reinstallation requirement is given, and no pay item covers the work. Sheet E101 addresses only the 23 new illumination poles

Question: Please provide the scope for the existing light pole — removal, transport, destination, whether it is to be reinstalled under this Contract, and which pay item covers it.

Response: Existing light poles and fixtures shall be removed and stored on site for transport by the owner. No reinstallation of poles is required on this contract. Pole bases shall be demolished below grade and circuits for existing lights re-established. Work associated with existing light pole removal will be paid under Item 201 Site Preparation.

RFI-022 Item 202 R & D of Trees

Ref: ARDOT Subsection 201.01 covers trees and stumps; Subsection 202.01 covers structures, walks, pavement and curb



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Question: Which section governs, and what depth of stump and root removal is required?

Response: Subsection 201.01 governs R&D of trees and stumps,

DIVISION 03 — CONCRETE

RFI-023 Concrete class for curb and storm structures

Ref: Sheet C-501 calls for "Class B, 3500# 4%–7% A.E."; ARDOT Table 802-1 lists Class B as 3,000 psi and non air entrained

Question: Do we include the concrete specs as shown in the plans or per ARDOT Specifications?

Response: Include the concrete specs listed on sheet C-501, 3,500 psi 4%-7% A.E., for concrete structures, bases, and curbs.

RFI-024 Concrete class for walks and ramps

Ref: Sheet C-002 calls for 4,000 psi with no class; ARDOT Subsections 633.02 and 641.02 require Class M

Question: Which ARDOT concrete class is required for concrete walks and for wheelchair ramps?

Response: Include the concrete specs listed on sheet C-002, 4,000 psi 4%-7% A.E., for walks, drives, and ramps.

RFI-025 Exterior joint sealant specification

Ref: Sheet C-502, Concrete Pavement Jointing Detail, Note 4 requires "specified joint sealant" applied per the manufacturer's requirements and tooled 1/8 in. below the pavement surface; no joint sealant specification appears in the Project Manual

Question: Please provide the exterior joint sealant specification, including product type and acceptable manufacturers, that we are to price.

Response: Exterior joint sealant shall be single component self leveling sealant, Sikaflex + Self Leveling Sealant or equal.

RFI-026 Joint types on the jointing plans

Ref: Sheets C-110 (revised by Addendum No. 1) and C-111 both use only "CJ — contraction joint" and "EJ — expansion joint." Neither references the Type A, B, C, D, S and SH joints detailed on Sheet C-502, which was not revised. The revised C-110 drawing title reads "Sht. 2" while its title block reads "Jointing Plan Sht. 1"

Question: Which joint type from Sheet C-502 applies to each CJ and each EJ designation, and will the C-110 sheet title be corrected?

Response: Expansion joints are to be Type A, contraction joints to be Type S.



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RFI-027 Epoxy specification at the grate inlet detail

Ref: Sheet C-501, Grate Inlet / Junction Box Top Modification detail calls for rebar dowels epoxied into the existing structure at 12 in. on center around the perimeter; no epoxy specification appears in the Project Manual

Question: Please provide the specification for the epoxy anchoring adhesive, including required embedment depth.

Response: Minimum embedment depth is 8", anchor with Simpson ET-3G adhesive.

DIVISION 26 — ELECTRICAL

RFI-028 No ARDOT specification exists for the lighting items

Ref: ARDOT Section 708 is Traffic Signal Cable and Section 714 is Traffic Signal Mast Arm and Pole; the 2014 book has no illumination section

Question: Do Division 26 and Sheet E101 govern all illumination work, including the foundation concrete class and whether the poles must be breakaway?

Response: Division 26 specifications and Sheet E101 govern the illumination work. The light poles are pedestrian site-lighting poles and are not traffic-signal mast arms or roadway illumination poles. Provide concrete for the light-pole foundations in accordance with the project's applicable concrete requirements and the Civil Engineer's requirements. Detail 2/E101 governs the conduit arrangement, grounding, and related electrical installation requirements.

RFI-029 Light pole foundations are not on the Bid Schedule

Ref: Sheet C-001 quantity table shows Item 714 Light Pole Foundation, 23 EA; Detail 2/E101. Addendum No. 1 revised Sheet C-001 and added Item 906 Removable Bollard to the quantity table, but did not add Light Pole Foundation to Bid Schedule 00 41 00. Revised C-001 now lists 34 pay items; the Bid Schedule lists 33

Question: Will a bid line be added for the 23 light pole foundations, or are they included in the price of Item 714 Illumination Pole?

Response: "714 - LIGHT POLE FOUNDATION" Line item added to bid schedule

RFI-030 Fixture finish is not specified

Ref: Sheet E101 Light Fixture Schedule states "FINISH BY ARCHITECT" and the catalog numbers show "CI-XX" and "BA24-XX"

Question: What is the finish designation for fixture Types A and B?

Response: Finish to be BK - (Black) for both fixture Types A & B.



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RFI-031 Connection to the existing building has no pay item

Ref: Sheet E101 Keyed Note 1 requires a new 20A/2P breaker in existing panel 1HB and routing through a relay in existing panel 1LCP

Question: Which pay item covers this work, and is programming of panel 1LCP by this Contract or by the Owner?

Response: The connection to the existing building shall include connection to the existing conduit; new conduit and conductors from the site-lighting system to existing Panel 1HB; a new 20A/2P circuit breaker; connection through existing Lighting Control Panel 1LCP; luminaires; programming, testing, commissioning, labeling; and all incidental work necessary to provide a complete and operational system.

Programming of Panel 1LCP shall be performed by the Electrical Contractor or the lighting-control system manufacturer's authorized representative under this Contract. Program the site lighting to operate from the existing building-mounted photocell and coordinate the final control requirements with the Owner.

Line Item "SP - LIGHTING CONTROL PANEL & PROGRAMMING" added to bid schedule to cover this work.

RFI-032 Section 26 50 00 requires reissue

Ref: Section 26 50 00 cites Sections 26 05 29, 26 05 48 and 09 900, which were not issued, and includes exit signs, emergency lighting and inverters that appear nowhere on Sheet E101 or the Bid Schedule

Question: Will Section 26 50 00 be reissued, and are exit signs, emergency lighting units and inverters in the scope of this Contract?

Response: Exit signs, interior emergency-lighting units, and emergency-lighting inverters are not included in the scope of this Contract. Where provisions within Section 26 50 00 address work not indicated on the drawings, those provisions are not applicable to this project.

DIVISION 31 — EARTHWORK

RFI-033 Geotechnical report was not provided

Ref: Sheet C-001, Demolition Note 17: "all trenches and/or excavated areas shall be filled/tested in accordance with the geotechnical engineering report." No geotechnical report accompanies the bid documents, and the Project Manual contains no Division 31

Question: Please provide the geotechnical engineering report referenced in Note 17.

Response: No geotechnical report was done for this project.



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RFI-034 Select fill specification

Ref: Sheet C-001, Demolition Note 4: all facilities to be removed shall be undercut to suitable material and brought to grade with suitable compacted fill material "per the specifications." No earthwork specification section was issued

Question: Please provide the specification for suitable select fill.

Response: Conform to ARDOT Section 302 for selected material.

RFI-035 Items 321 Grate Inlet Gravel Filter and 331 Silt Fence

Ref: No ARDOT Section 321 or 331 exists; erosion control is Section 621. Sheet C-109 also cites "Specifications Section 312800," which does not appear in the Project Manual

Question: Does Section 621 govern both items; will Section 31 28 00 be issued?

Response: Section 621 governs both items, no 312800 will be issued.

RFI-036 Erosion control quantities were not revised with the limits of disturbance

Ref: Addendum No. 1 revised Sheets C-107 and C-108 for revised limits of disturbance and erosion controls, but Item 331 Silt Fence remains 1,135 LF and Item 321 Grate Inlet Gravel Filter remains 10 EA on revised Sheet C-001. Sheet C-109 was not revised and still shows 1.43 acres disturbed, 0.65 acre impervious and 0.78 acre seeded

Question: Are the silt fence and inlet filter quantities still correct against the revised limits of disturbance, and do the disturbed, impervious and seeded areas on Sheet C-109 remain accurate for the SWPPP and the NPDES permit?

Response: Silt fence quantities and area of disturbance will be corrected. Inlet filter quantities are correct. There is no site specific NPDES permit for this project. Automatic SWPPP coverage for 1-3 acres of disturbance applies to the site.

DIVISION 32 — EXTERIOR IMPROVEMENTS

RFI-037 Heavy-duty concrete walk quantity is not broken out

Ref: Addendum No. 1 revised the Pedestrian Mall Southeast typical section on Sheet C-002 from 4 in. concrete on 4 in. Class 7 base to 8 in. (4,000 psi) heavy-duty concrete and added a 4 ft grass pave strip on 8 in. base. Item 633 Concrete Walks remains 2,565 SY and Item 303 Aggregate Base Course remains 988 TON on revised Sheet C-001. Both the Northeast and Southeast runs are now heavy-duty, which we calculate at roughly 1,130 SY on sheet C-103, of the 2,565 SY total

Question: Will Item 633 be split into separate bid lines for 4 in. and 8 in. concrete walk, and if not, please confirm the square yards of each thickness so that all bidders blend the same unit price — and confirm whether Item 303 should increase for the added 8 in. base.



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Response: 4 in. concrete walks will be paid under Item 633 Concrete Walks, 8 in. concrete will be paid under Item 505 P.C. Concrete Driveway, quantities will be verified and adjusted.

RFI-038 Detectable warning devices

Ref: Sheet C-502 allows any material and either contrast; ARDOT Subsection 641.02 requires cast-in-place vitrified polymer composite in Federal Color No. 33538 and prohibits surface-applied products

Question: Does ARDOT Subsection 641.02 govern the detectable warning devices, and does the ramp follow Standard Drawing WR-1?

Response: Yes.

RFI-039 SP-7 Concrete Walks (Type Special)

Ref: SP-7 creates a pay item that is not on the Bid Schedule and adds retaining wall work; no retaining wall is detailed in the set

Question: Does this project include retaining wall scope, and if not, can SP-7 be disregarded?

Response: There is no retaining wall in the scope of this project.

RFI-040 Two different grass paving products are specified

Ref: Addendum No. 1 revised both Sheet C-002 and Sheet C-501 without reconciling them. Revised C-002 now calls for Grasspave2 by Invisible Structures or equal, over 8 in. Class 7 base with filter fabric and manufacturer-provided stakes, on BOTH typical sections; revised C-501 still shows TrueGrid Pro Plus over a sandy-gravel engineered base with no staking. Addendum No. 1 also increased the quantity on Sheet C-001 from 125 SY to 275 SY

Question: Which grass paving system is required, and what base section applies?

Response: Section 32 14 33 is issued in this addendum. A minimum of 8" of Class 7 base is required below the grass paving system.

RFI-041 No grass paving specification section has been issued

Ref: Table of Contents lists Section 32 14 33, which does not appear in the Project Manual and was not issued with Addendum No. 1; revised Sheet C-501 Note 9 still states the detail is "for information only", and the quantity has more than doubled to 275 SY

Question: Will Section 32 14 33 be issued to establish the base depth, geotextile and fill requirements?

Response: Section 32 14 33 is issued in this addendum. A minimum of 8" of Class 7 base is required below the grass paving system. No geotextile fabric is required below the Class 7 base.



ADDENDUM NO. 03 ISSUED: 9.02.2026

to the Project Manual and Drawings for

UAPB Pedestrian Mall - Phase 1 (TAP-16)(S)

ARDOT PROJECT # 020673

1424 S Main St #105
Little Rock, AR 72202

501.375.0378

amr-architects.com

RFI-042 TrueGrid SuperSpot delineators

Ref: Sheet C-501 shows TrueGrid SuperSpot delineation at the edge of the fire lane in red; there is no pay item, no quantity and no spacing or installation detail

Question: If TrueGrid Pro Plus is the selected system, are the SuperSpot delineators to be installed under this Contract, and if so please provide the quantity, spacing and installation detail.

Response: No SuperSpot delineators are to be installed under this contract.

RFI-043 Mulch replacement in existing planter beds

Ref: Sheet L-102 calls out replacing mulch in existing planter beds outside the new walk in several locations, typical; no quantity, area or limits are given and the work does not appear on the Bid Schedule

Question: Please provide the quantity or the defined limits of the existing planter beds to receive replacement mulch, so that all bidders carry the same amount.

Response: Much will only be placed within the work area or to restore areas disturbed by construction activities.

RFI-044 Tree separation from underground utilities

Ref: Sheet L-501, Utilities and Plant Materials Note 4: "trees shall not be placed within 10' of underground utilities." Sheet L-101 places trees within a corridor crossed by numerous existing and proposed underground utilities, including gas, water, sanitary sewer, electric, telecommunications, storm drainage and irrigation

Question: Are the planting plans correct as drawn, or is Note 4 to be enforced and the tree locations revised? A 10 foot separation does not appear achievable at several locations.

Response: Reasonable care shall be exercised and accommodations made to place new landscape materials with minimal risk to underground utilities.

RFI-045 Mulch saucer detail

Ref: Sheet L-501, Landscape Note 13: all trees not located in planting beds shall receive a mulch saucer per detail. No mulch saucer detail appears on Sheet L-501 or elsewhere in the set

Question: Please provide the mulch saucer detail.

Response: A mulch saucer is depicted on the tree planting detail and noted as "Begin mulch 3" to 4" away from the truck". A mulch saucer is a standard landscape and tree-care technique common in placement of mulch. Mulch shall be pulled away from the tree trunk, creating a shallow bowl, which directs water toward and promotes air flow around the root zone. Care should be taken to avoid mounding mulch near the trunk, promoting disease, rot, and infestation.



ADDENDUM NO. 03 ISSUED: 9.02.2026

to the Project Manual and Drawings for

UAPB Pedestrian Mall - Phase 1 (TAP-16)(S)

ARDOT PROJECT # 020673

1424 S Main St #105
Little Rock, AR 72202

501.375.0378

amr-architects.com

RFI-046 Irrigation point of connection and RPZ

Ref: Sheets LI-501 and LI-502 are irrigation DETAILS sheets; no irrigation plan appears in the set. LI-501 Note 13 requires the Contractor to provide the service taps, lines and meter; Note 1 requires verification of 85 psi dynamic at 75 gpm at the meter; Note 9 requires a closed-loop mainline around the property perimeter; the backflow preventer is specified as a Wilkins 975XL2 but no location is shown. Section 32 84 00 paragraph 1.2.C requires the Installer to provide a sealed delegated design

Question: Which existing water line is to be tapped and where, where is the RPZ to be located, who pays the tap and meter fees, and is a licensed plumber required to install the RPZ, where will the irrigation controller be located and where do we pull power from?

Response: Existing waterlines are shown on the drawings and are private. A meter is not required and there are no connection fees. An existing irrigation main line is available at the north end of the project. The controller for this system is located inside the Student Engagement Center. If a new system is required for the south portion of this project, a new tap, RPZ and controller will be required.

DIVISION 33 — UTILITIES

RFI-047 Item 633 Storm Junction Box

Ref: ARDOT Section 633 is Concrete Walks; Section 609 is Drop Inlets and Junction Boxes

Question: Does Section 609 govern the storm junction box?

Response: Section 609 governs the storm junction box.

END OF ADDENDUM NO. 03

EZ Roll™
Grass Pavers



EZ Roll™ Grass Pavers

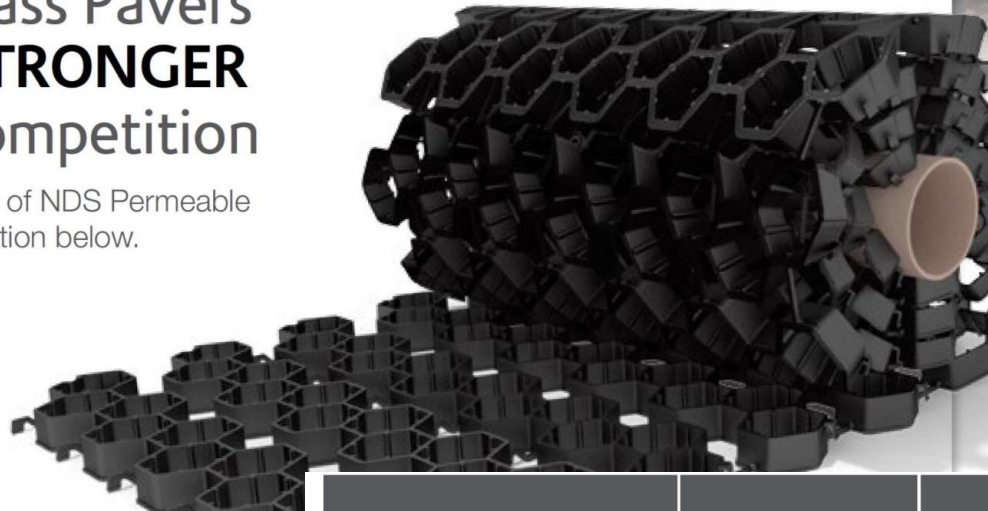
A turf reinforcement, load transferring paving system designed to be placed directly on an engineer specified compacted road base.



Dare to Compare

EZ Roll™ Grass Pavers
are **25% STRONGER**
than the competition

Compare the strength of NDS Permeable
Pavers to the competition below.



Roll Pavers	Max Load Unfilled (lbs.)	Area (sq. in.)	Max Load (PSI)
NDS EZ Roll™	53,683	144	373
ISI GrassPave ²	40,623	144	282

NDS Max load for soil-filled cells is 400,000 lbs.



VS



COMPARE	Grasspave2	EZ Roll™ Grass NDS	NDS BENEFITS
Load Rating (filled)	>500,000 lbs. (15,944 psi)* 2,295,936 psf.	>500,000 lbs. (15,944 psi.)* 2,295,936 psf.	Similar results when using smaller 31in ² load test plate. See attached
Compressive test (empty)	35,682 lbs. (248 psi.) 35,712 psf.	✿ 53,680 lbs. (373 psi.) 53,712 psf	NDS can be driven over with truck without damage.
Unit standard size	431ft ² (6.6' x 65.6' roll)	✿ 600ft ² (4' x 150' roll)	NDS has longer roll equals faster install, saves labor.
Cell structural design	Thin walled plastic rings, connected by light weight plastic stringers.	✿ Nested hexagonal cells, thicker wall and reinforced sidewalls	Nested cells work together for greater strength and stability. Thicker cell walls for increased longevity.
Reservoir layer base, and storage	Grasspave2 detail shows compacted "sandy gravel road base". 16-35% void depending on composition	✿ EZ Roll detail shows reservoir base layer of AASHTO #57 40% void space.	NDS does not recommend compacted road base, as is not very permeable. #57 stone maintains 40% void space, promotes infiltration.
Backfill	Sharp angular concrete with , hydro-grow fertilizer	✿ Indigenous soil reused from jobsite or well draining soil like bio-swale.	NDS allow reuse of soil and better to grow grass in native soil over sand.
Grass	Sod or Seed	Sod or Seed	Similar
Grid colors	Black	Black	Similar
Drive on (empty)	No	✿ Yes	NDS saves labor, truck may drive on to dump
Maintenance	Increased need for water and fertilizer since sand does not hold water or nutrients.	✿ Soil is a more natural environment to grow and maintain grass.	NDS is designed to use soil which holds water so more drought tolerant. Less need to add nutrients. Heavier duty grid will last.
ADA Roll test	Yes	Yes	Similar

*Max capacity of test device. 500,000lbs / area

Test data published by ISI

A.G. Wassenaar

Geotechnical and Environmental Consultants

2180 South Ivanhoe Street, Suite 5
Denver, Colorado 80222-5710
303-750-8100 Fax 303-795-2920
www.agwassenaar.com

ASTM D1621-10 COMPRESSIVE STRENGTH RESULTS MARCH 13, 2015

Grasspave2 Sand-filled Ring Units

Source: 100% Recycled HDPE Resins

Form Tested: Four sand-filled Rings attached by grid and confined by taping (see photographs)

Sample No.	Total Load (lbs)	Gross Area Strength (psi)	Net Area Strength (psi)	Deflection (in.)
1	500,000*	15,940	15,940	0.575
2	500,000*	15,940	15,940	0.581
3	500,000*	15,940	15,940	0.579
	Average	15,940	15,940	0.578

- Note:
- *Maximum total load was not achieved, 500,000 pounds is the maximum load of this testing machine.
 - Testing Machine: Forney Model No. F-502F-F96
Serial No. 03040
Capacity: 500,000 pounds
 - Silica Sand: Oglebay/Norton washed silica sand, Colorado Springs, Colorado
 - Sand was confined by taping ring edges.
 - Area calculated is the total gross and net area including the area filled by sand.

TABLE I

SAME
RESULT
WHEN
FILLED

Test data published by NDS



SMITH-EMERY LABORATORIES

An Independent Commercial Testing Laboratory, Established 1904

781 East Washington Boulevard, Los Angeles, California 90021

Phone (213) 745-5333 • Fax (213) 741-8526

Project No.: 38079-1
Lab No.: L-11-1864

3. Compression Test Filled with Pea Gravel:

Two samples for each paver sample were load in compression up to 500 kips by a universal testing machine (Baldwin SN P-16-04011914). The cells were filled with concrete pea gravel (3/8-in.). A 6-in. x 6-in. x 1-3/4-in. thick steel plate was used as loading plate. The tests were performed on 11/3/11.

Table 3 - Compression Test Filled with Gravel

Sample	Test No.	Loading Plate	Max. Load (lbs.)	Remarks
NDS	1	6" x 6"	500,000	Paver cell was compressed
	2	6" x 6"	500,000	down along with the gravel.
ISI	1	6" x 6"	500,000	Paver cell was compressed
	2	6" x 6"	500,000	down along with the gravel.

4. Compression Test Filled with Soil:

Two samples for each paver sample were load in compression up to 500 kips by a universal testing machine (Baldwin SN P-16-04011914). The cells were filled with clay soil. A 6-in. x 6-in. x 1-3/4-in. thick steel plate was used as loading plate. The tests were performed on 11/3/11.

Table 4 - Compression Test Filled with soil

Sample	Test No.	Loading Plate	Max. Load (lbs.)	Remarks
NDS	1	6" x 6"	500,000	Paver cell crushed.
	2	6" x 6"	500,000	
ISI	1	6" x 6"	500,000	Paver cell crushed.
	2	6" x 6"	500,000	

Respectfully,

SMITH-EMERY LABORATORIES



Pingsheng Zhu
Registered Civil Engineer No.: C72482
Registration Expires: 06-30-12

Attachments: Testing Photos

Digitally signed by Pingsheng Zhu
DN: cn=Pingsheng Zhu, o=Smith Emery
Laboratories, ou,
email=Ping@smithemerylabs.com, c=US
Date: 2011.11.04 10:12:24 -07'00'

- ☐ Materials Tested Comply With Specifications.
☐ Materials Tested Did Not Comply with Specifications.
☒ No Established Criteria for Acceptable Limits.



EZ Roll™ Grass Pavers

EZ Roll Grass Pavers feature hexagonal cells that protect the root zone and prevent soil compaction, allowing healthy grass to thrive in areas that would traditionally have impervious hardscaping installed.



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UAPB PEDESTRIAN MALL - PH.1 (TAP-16) (S)

FORM OF BID PROPOSAL

BID TIME/DATE : 10:00AM Thursday, September 10th

BID PLACE: UAPB Facilities Management Building, 2001 Carver Ave, Pine Bluff, AR 71601

BID FROM: _____

BID TO: University of Arkansas System Board of Trustees acting for and on behalf of
the University of Arkansas at Pine Bluff

PROJECT: UAPB PEDESTRIAN MALL - PH. 1 (TAP-16) (S)

PROJECT #: 020673

1. Having carefully examined the Contract Documents for this project, as well as the premises and all conditions affecting the proposed construction, the undersigned proposes and agrees to enter into an Agreement with the Owner in the form included in the Contract documents to perform and furnish all labor, materials, services, and equipment necessary for, or incidental to, the construction of the project within the Contract Time indicated in this Bid in accordance with the Contract Documents.
2. The undersigned, in compliance with the Contract Documents for the construction of the above named project, does hereby declare:
 - a. The undersigned understands that the Owner reserves the right to reject any and all bids and to waive any formality.
 - b. That this bid will remain subject to acceptance and may not be withdrawn for a period of forty-five (45) calendar days after the bid opening.
 - c. That if awarded the Contract, the undersigned will enter into Agreement and execute required documents listed below within fifteen (15) days after receipt of the Intent to Award.
 - i. Performance & Payment Bonds
 - ii. Proof of Insurance
 - iii. Contract & Grant Disclosure Certification
 - d. The undersigned further agrees that the bid security payable to Owner and accompanying this proposal shall become the property of the Owner as liquidated damages if the undersigned fails to execute the Contract or to deliver the required documents to the Owner within the time frame as stated in paragraph 2(c) from receipt of the Intent to Award as these acts constitute a breach of the Contractor's duties.
 - e. The undersigned understands that the Owner's intent is to construct all facilities proposed within the limits established by the funds appropriated for the project.
 - f. The names of subcontractors and the nature of the work to be performed by each one have been included on the Bid Form.
 - g. Bids submitted by a "Joint Venture/Joint Adventure" shall be signed by representatives of each component part of the Joint Venture. The licenses of each component part of the Joint Venture shall also be listed in the bid submittal. Therefore, joint venture bidders shall indicate at least two (2) signatures and two (2) licenses numbers on the Bid Form. Exception: Joint Ventures who have been properly licensed with the Arkansas Contractors Licensing Board as a "Joint Venture" need only to indicate the joint venture license number on the Bid Form. Joint Venture Bidders shall indicate at least two (2) signatures on the bid form even if they are licensed as a joint venture.
3. The undersigned acknowledges receipt of and inclusion as a part of the Contract Documents the following addenda. **Failure to acknowledge all addenda may result in rejection of bid.**

Addendum #1	Dated:	Received:
Addendum #2	Dated:	Received:
Addendum #3	Dated:	Received:
Addendum #4	Dated:	Received:

UAPB PEDESTRIAN MALL - PH.1 (TAP-16) (S)

4. Bidder will complete the work for the following prices:

BID SCHEDULE**TOTAL BASE BID PRICE**

Item No.	Description	Estimated Quantity	Unit	Unit Bid Price	Total Bid Amount
201	MOBILIZATION / SITE PREPARATION	1	LS		
202	R & D OF TREES	17	EA		
202	R & D OF CONCRETE WALKS	1,245	SYD		
202	R & D OF EXISTING PAVEMENT	1,700	SYD		
202	R & D OF EXISTING CURB AND GUTTER	563	LF		
202	R & D OF GRATED INLET	6	EA		
210	UNCLASSIFIED EXCAVATION	1,250	CY		
505	P.C. CONCRETE DRIVEWAY	1,130	SY		
302	SELECT MATERIAL (SM-4)	1,250	CY		
303	AGGREGATE BASE COURSE (CLASS 7)	1,206	TON		
321	GRATE INLET GRAVEL FILTER	10	EA		
331	SILT FENCE	1,145	LF		
606	CROSS DRAIN (12")	38	LF		
609	GRATED INLET	6	EA		
633	STORM JUNCTION BOX	1	EA		
633	CONCRETE WALKS	2,016	SY		
634	PC CONCRETE CURB	160	LF		
641	TYPE 3 WHEEL CHAIR RAMP	7	SY		
708	ELEC. COND.-IN-CONDUIT (1C/8 AWG)	1,900	LF		
708	ELEC. COND.-IN-CONDUIT (2C/6 AWG)	1,900	LF		
710	NON-METALIC CONDUIT (1")	1,400	LF		
711	CONCRETE PULL BOX (TYPE 1)	10	EA		

UAPB PEDESTRIAN MALL - PH.1 (TAP-16) (S)

714	LUMINAIRE ASSEMBLY	23	EA		
714	ILLUMINATION POLE	23	EA		
714	LIGHT POLE FOUNDATION	23	EA		
718	REFL. PAINT PVMT. MARK WHT. (4")	180	LF		
718	REFL. PAINT PVMT. MARK (ADA EMBLEM)	1	EA		
718	REFL. PAINT PVMT. MARK (FIRE LANE)	305	LF		
726	STANDARD SIGN	20	SF		
729	CHANNEL POST SIGN SUPPORT (U1-1)	4	EA		
906	REMOVEABLE BOLLARD	4	EA		
SP	CONCRETE WHEELSTOP	4	EA		
SP	ADJUST SANITARY MANHOLE LID	2	EA		
SP	GRASS PAVING SYSTEM	275	SY		
SP	LANDSCAPING & IRRIGATION	1	LS		
SP	LIGHTING CONTROL PANEL & PROGRAMMING	1	LS		

(USE WORDS)

(USE FIGURES)

5. The following documents are attached to the bid form and made a part of this Bid. *****Failure to execute and submit the following shall render this bid nonresponsive and not eligible for award consideration.*****

- a. Bid Security
- b. Combined Certifications Form
- c. Anti-Collusion and Debarment Certification
- d. Restriction of Boycott of Israel Certification
- e. Certification of Federal Aid Projects

6. Bidder agrees that the work will be substantially complete and ready for final payment excluding retainage in accordance with the General Conditions within **120 days** of the date established in a written Notice to Proceed. The Bidder further agrees to increase the size of the work force, increase daily or weekly work hours, increase the work week, increase shift sizes and/or any other necessary measures to achieve Substantial Completion of the work by the above established date.

7. Should the undersigned fail to fully complete the work within Completion Date stated above, or any agreed extension thereof, he shall pay the Owner as fixed, agreed and not as a penalty, liquidated damages in the sum of **two hundred fifty dollars (\$250.00)** for each calendar day of delay until the work is completed or accepted. The said sum shall be withheld by the owner from payments due to be made to the Contractor by the Owner under the terms of the Agreement.

UAPB PEDESTRIAN MALL - PH.1 (TAP-16) (S)

8. The bidder proposed to use the following subcontractors to construct a portion of the project:

NAME: _____

ADDRESS: _____

BRIEF LIST OF WORK: _____

APPROX AMOUNT OF SUBCONTRACT: _____

NAME: _____

ADDRESS: _____

BRIEF LIST OF WORK: _____

APPROX AMOUNT OF SUBCONTRACT: _____

NAME: _____

ADDRESS: _____

BRIEF LIST OF WORK: _____

APPROX AMOUNT OF SUBCONTRACT: _____

NAME: _____

ADDRESS: _____

BRIEF LIST OF WORK: _____

APPROX AMOUNT OF SUBCONTRACT: _____

NAME: _____

ADDRESS: _____

BRIEF LIST OF WORK: _____

APPROX AMOUNT OF SUBCONTRACT: _____

UAPB PEDESTRIAN MALL - PH.1 (TAP-16) (S)

Respectfully Submitted,

Name of Bidder (Typed or Printed)

Address

BY: (Signature and Title)

Date of Bid

Contractor's License Number or Contractor's (Joint Venture) License Number(s)

Telephone No.

Contact Email:

Federal ID Number or SSN#

SECTION 01 40 00 QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Submittals.
- B. Quality assurance.
- C. References and standards.
- D. Testing and inspection agencies and services.
- E. Control of installation.
- F. Mock-ups.
- G. Tolerances.
- H. Defect Assessment.

1.02 RELATED REQUIREMENTS

- A. Document 00 72 00 - General Conditions: Inspections and approvals required by public authorities.
- B. Section 01 30 00 - Administrative Requirements: Submittal procedures.
- C. Section 01 60 00 - Product Requirements: Requirements for material and product quality.

1.03 REFERENCE STANDARDS

- A. ASTM C1021 - Standard Practice for Laboratories Engaged in Testing of Building Sealants; 2008 (Reapproved 2023).
- B. ASTM C1077 - Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation; 2026.
- C. ASTM C1093 - Standard Practice for Accreditation of Testing Agencies for Masonry; 2025.
- D. ASTM D3740 - Standard Practice for Minimum Requirements for Agencies Engaged in Testing of Soil and Rock as Used in Engineering Design and Construction; 2026.
- E. ASTM E329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection; 2021.
- F. ASTM E543 - Standard Specification for Agencies Performing Nondestructive Testing; 2026.

1.04 DEFINITIONS

- A. Contractor's Quality Control Plan: Contractor's management plan for executing the Contract for Construction.

1.05 RESPONSIBILITIES

- A. Contractor Responsibilities: The Contractor shall provide inspections, tests and similar quality control services, specified in individual Specification Sections and required by governing authorities, except where they are specifically indicated to be the Owner's responsibility, or are provided by another identified entity; these services include those specified to be performed by an independent agency and not by the Contractor. Costs for these services shall be included in the Contract Sum.
 - 1. The Contractor shall employ and pay an independent agency, to perform specified quality control services.
 - 2. Retesting: The Contractor is responsible for retesting where results of required inspections, tests or similar services prove unsatisfactory and do not indicate compliance with Contract Document requirements, regardless of whether the original test was the Contractor's responsibility.
 - a. Cost of retesting construction revised or replaced by the Contractor is the Contractor's responsibility, where required tests were performed on original construction.
 - 3. Associated Services: The Contractor shall cooperate with agencies performing required inspections, tests and similar services and provide reasonable auxiliary services as requested. Notify the agency sufficiently in advance of operations to permit assignment of personnel. Auxiliary services required include but are not limited to:

- a. Providing access to the Work and furnishing incidental labor and facilities necessary to facilitate inspections and tests.
- b. Taking adequate quantities of representative samples of materials that require testing or assisting the agency in taking samples.
- c. Providing facilities for storage and curing of test samples, and delivery of samples to testing laboratories.
- d. Providing the agency with a preliminary design mix proposed for use for materials mixes that require control by the testing agency.
- e. Security and protection of samples and test equipment at the Project site.

1.06 TESTING AND INSPECTION AGENCIES AND SERVICES

- A. Contractor shall employ and pay for services of an independent testing agency to perform other specified testing.
- B. Employment of agency in no way relieves Contractor of obligation to perform Work in accordance with requirements of Contract Documents.
- C. Contractor Employed Agency:
 - 1. Testing agency: Comply with requirements of ASTM E329, ASTM E543, ASTM E699, ASTM C1021, ASTM C1077, ASTM C1093, and ASTM D3740.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.
- B. Comply with manufacturers' instructions, including each step in sequence.
- C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
- D. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Have work performed by persons qualified to produce required and specified quality.
- F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.
- G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

3.02 MOCK-UPS

- A. Tests shall be performed under provisions identified in this section and identified in the respective product specification sections.
- B. Assemble and erect specified items with specified attachment and anchorage devices, flashings, seals, and finishes.
- C. Obtain Architect's approval of mock-ups before starting work, fabrication, or construction.
- D. Architect will use accepted mock-ups as a comparison standard for the remaining Work.
- E. Where mock-up has been accepted by Architect and is specified in product specification sections to be removed, protect mock-up throughout construction, remove mock-up and clear area when directed to do so by Architect.

3.03 TOLERANCES

- A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Architect before proceeding.
- C. Adjust products to appropriate dimensions; position before securing products in place.

3.04 TESTING AND INSPECTION

- A. Testing Agency Duties:
 - 1. Provide qualified personnel at site. Cooperate with Architect and Contractor in performance of services.
 - 2. Perform specified sampling and testing of products in accordance with specified standards.
 - 3. Ascertain compliance of materials and mixes with requirements of Contract Documents.
 - 4. Promptly notify Architect and Contractor of observed irregularities or non-compliance of Work or products.
 - 5. Perform additional tests and inspections required by Architect.
 - 6. Submit reports of all tests/inspections specified.
- B. Limits on Testing/Inspection Agency Authority:
 - 1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
 - 2. Agency may not approve or accept any portion of the Work.
 - 3. Agency may not assume any duties of Contractor.
 - 4. Agency has no authority to stop the Work.
- C. Contractor Responsibilities:
 - 1. Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.
 - 2. Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.
 - 3. Provide incidental labor and facilities:
 - a. To provide access to Work to be tested/inspected.
 - b. To obtain and handle samples at the site or at source of Products to be tested/inspected.
 - c. To facilitate tests/inspections.
 - d. To provide storage and curing of test samples.
 - 4. Notify Architect and laboratory 24 hours prior to expected time for operations requiring testing/inspection services.
 - 5. Employ services of an independent qualified testing laboratory and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
 - 6. Arrange with Owner's agency and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
- D. Re-testing required because of non-compliance with specified requirements shall be performed by the same agency on instructions by Architect.
- E. Re-testing required because of non-compliance with specified requirements shall be paid for by Contractor.

3.05 DEFECT ASSESSMENT

- A. Replace Work or portions of the Work not complying with specified requirements.
- B. If, in the opinion of Architect, it is not practical to remove and replace the work, Architect will direct an appropriate remedy or adjust payment.

END OF SECTION 01 40 00

SECTION 32 14 33 - PERMEABLE PLASTIC PAVING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Base material, over sub base prepared by others.
- B. Porous pavement system with S-flexural joints for seasonal expansion and contraction.
- C. Parking, fire lane, and traffic delineation.
- D. Gravel fill.
- E. Grass fill.

1.2 RELATED REQUIREMENTS

- A. Section 32 84 00 – Irrigation: Irrigation System.
- B. Section 32 92 00 – Turf and Grasses.

1.3 PREINSTALLATION MEETINGS

- A. Convene pre-installation meeting a minimum of two weeks prior to start of porous paving systems Specifier Notes:
- B. Verify project requirements, subbase and base conditions, manufacturer's installation instructions and coordinate with other related work.
- C. Require attendance of parties directly affecting work of this section, including the contractor, architect, engineer, and installer. Manufacturer's representative may attend by phone conference as needed.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01.

- B. Product Data: Submit manufacturer's product data.
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop drawings: Submit manufacturer's shop drawings including laying pattern and parking delineation locations.
- D. Samples: Submit two square samples of TRUEGRID Paver units.
- E. LEED and other Sustainable Design Submittals: Provide documentation of how the requirements for credit/certification will be met including, but not limited to: Recycled content, stormwater management, heat-island mitigation, water use reduction, site development, and regional materials.
- F. Manufacturer's Certificates: Certify products meet or specified requirements.
- G. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic fertilizing and maintenance.

1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer with a minimum of five years documented experience with products specified.
- B. Installer Qualifications: Installer experienced in performing work of this section that has specialized in installation of work similar to that required for this project. Installer must also be able to provide skilled workman with satisfactory record of performance on landscaping or paving projects of comparable size and quality.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Protect porous paver units from damage during delivery and store under tarp when the time from delivery to installation exceeds 30 days.
- C. Protect materials during handling and installation to prevent damage.

1.7 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions recommended by manufacturer for desired results. Do not install products under conditions outside manufacturer's absolute limits.
- B. Do not begin installation of porous pavements until all hard surface paving adjacent to porous pavement areas, including concrete walks and asphalt paving, is completed.
- C. Install turf when ambient air temperature is at least 55 degrees F.
- D. In wet weather, do not build on wet, saturated or muddy subgrade.
- E. In cold weather, do not use frozen materials or materials coated with ice or frost, and do not build on frozen base or wet, saturated or muddy subgrade.
- F. Protect partially completed porous paving against damage from other construction traffic when work is in progress.
- G. Protect grass fill / sodded paving areas from traffic until grass root system has matured for at least 3 to 4 weeks. Use barricades to only permit access by emergency and fire equipment.

1.9 WARRANTY

- A. Provide the manufacturer's 10-year limited warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Airlite Plastics Co. DBA TRUEGRID Pavers, 6110 Abbott Dr, Omaha, NE 68110. Phone: 1-855-355-GRID. Email: info@truegridpaver.com Website: www.truegridpaver.com.

- B. Substitutions: Not permitted.

2.2 PRODUCTS

- A. Permeable Pavers, TRUEGRID PRO PLUS for grass or gravel applications.
1. AASHTO H20, HS20 Rated.
 2. Manufactured in the USA.
 3. High density polyethylene (HDPE): 100 percent post-consumer recycled materials
 4. Recycled and recyclable content: 100 percent.
 5. S-Flexural joints molded in for soil seasonal expansion and contraction.
 6. Color: black- carbon black additive for long-term UV stabilization.
 7. Paver size: 24 inches by 24 inches by 1.8 inches.
 8. Pre-assembled: 4-foot by 4-foot sections.
 9. Cylindrical cell design for column strength.
 10. Cell size: 3.30 inch inside diameter.
 11. Co-joined cells at 48 places for strength.
 12. Wall thickness: 0.150 inches /.250-inch nominal.
 13. A minimum of 2 co-joined common walls per cell for structural integrity.
 14. Connections:
 - a. No clips or stakes necessary.
 - b. No additional parts or tools needed.
 - c. Integral male-female three-point locking system.
 - d. Wall thickness at tabs: 0.290 inch.
 15. Molded in X-anchors to stabilize pavers.
 16. Nominal Coverage per Paver: 4 square feet.
 17. Weight per paver: 5.25 lbs.
 18. Permeability of System: 100 percent.
 19. Compressive Strength (filled): 17,729 psi.
 20. Material Safety: Groundwater neutral, 100 percent inert.
 21. Chemical Resistant: Excellent: highly resistant to hydrocarbons, oils.
- B. Parking Delineators: TRUEGRID SuperSpots for grass or gravel applications.
1. H20, HS20 rated.
 2. Domed for high visibility and ribbed for high strength.
 3. 0.90-inch profile above grid.
 4. Long-term UV stabilized.

5. 3.25-inch diameter.
 6. Available Colors: Yellow, white, blue, and red.
- C. Parking Delineators: TRUEGRID SnowSpots for grass or gravel applications.
1. H20, HS20 rated.
 2. Snow plowable and ADA compliant.
 3. Level (0.00-inch) profile above grid.
 4. Long-term UV stabilized.
 5. 3.25-inch diameter.
 6. Available Colors: Yellow, white, blue, and red
- D. Reflective Parking Delineators: TRUEGRID Reflectors for grass or gravel applications.
1. H20, HS20 rated.
 2. Long-term UV stabilized.
 3. 0.90-inch profile above grid.
 4. 3.25-inch diameter.
 5. Available Colors: Translucent yellow, white, and red.
- E. Surface Signage, ADA, Traffic, and Parking Identifiers: TRUEGRID Plates for grass or gravel applications.
1. Durable, long lasting, weather resistant and highly visible.
 2. Snap-fit into TRUEGRID PRO PLUS grid.
 3. 0.20-inch profile above grid
 4. ADA compliant.
- F. Base Material: TRUEGRID PRO PLUS was developed to accept multiple acceptable base materials. Locally sourced angular stone/clean for base material. Crushed granite, sandy gravel material, crushed concrete, and limestone rock are some of the acceptable materials. Common base materials include:
1. Hard, clean, angular, and open-graded (uniform size) drain rock -- from 1" to 1-1/2" (19mm to 38mm). Commonly #4 stone when size limits are met.
 2. Base Course: Graded aggregate base course conforming to the following sieve analysis and requirements:
 - a. Percent Passing: 100 - Sieve Size: 3/4 – 1 inch
 - b. Percent Passing: 85 - Sieve Size: 3/8 inch

- c. Percent Passing: 60 - Sieve Size: #4
 - d. Percent Passing: 30 - Sieve Size: #40
 - e. Percent Passing: <3 - Sieve Size: #200, or 3 to 8 Percent for Grass Infill
- G. Gravel Fill: Obtain clean, washed angular rock to fill the 1.8-inch-tall TRUEGRID PRO PLUS cells and spaces between. TRUEGRID PRO PLUS should be filled level to the top of the cells or only slightly above for compaction and settling. Fill rock should be 5/8 inch to 3/4-inch diameter.
- H. Base Course for Grass Filled TRUEGRID: Use base course from above *Section 2.2 F 2* or comparable base material suitable for grass growth and traffic loads. Choose materials with neutral pH ranges and avoid sources from recycled/reclaimed concrete or asphalt.
- I. Grass Surface with Soil Fill: A sandy loam or loam soil should be used to fill the empty TRUEGRID PRO PLUS grid. The selection of sandy loam or loam soil should be made based upon the soil requirements of the turf variety selected for the project. Other soils if compatible with type of seed or sod are acceptable.
 - 1. Choose turf grasses with deep-growing vertical roots, high wear capacity, and for the local growing zone and climate.
 - 2. Grass – Choose either sod or seed:
 - a. Seed – The Preferred Method: Hydro-seeding/mulching is recommended with a wood or paper cellulose commercial mulch.
 - b. Sod shall be grown in sand or sandy loam soils only. Sod grown in soils of clay, silt, or high organic materials such as peat, will not be accepted.
- J. Base Course for Sloped Areas Above 3 degrees (5%): Use base course from above *Section 2.2 F 2* or other dense-graded base common for road use.
- K. Geotextile Fabric, Geomembrane, or Geogrid by Others.
 - 1. Choose for properties suitable for soil conditions, loading requirements, and permeability / impermeability requirements.
- L. Anchor Nails by others.
 - 1. 3/8-inch by 10-inch galvanized ring shank nail common for landscape use.
 - a. Choose for high frequency traffic areas, areas with breaking and acceleration, transitions, and areas subject to surface water from other sources.
 - b. For sloped areas above 3 degrees (5%).

PART 3 EXECUTION

3.1 EXAMINATION

- A. Before beginning installation, verify site conditions are as indicated on the drawings. Notify the Architect if site conditions are not acceptable. Do not begin preparation or installation until unacceptable conditions have been corrected.
- B. Ensure that adjacent hard-surfaced paving work is completed before installing porous pavement system.

3.2 PREPARATION

- A. Subgrade:
 - 1. Prepare subgrade as specified in Section 33 41 00. Verify subgrade in accordance with porous paving system manufacturer's instructions.
 - 2. Excavate area allowing for unit thickness and the engineered base depth (where required).
 - 3. Provide adequate drainage from excavated area if area has potential to collect water when working with in-place soils that have poor permeability.
 - 4. Ensure in-place soil is relatively dry and free from standing water.
 - 5. Uniformly grade base.
 - 6. Level and clear base of large objects, such as rocks and pieces of wood.
 - 7. Install irrigation, if applicable, in accordance with Section 32 80 00.
 - 8. Install and secure geotextile fabric, geomembrane, or geogrid mesh as needed for soil stabilization and loading requirements.
- B. Install Base as specified in the Standard Specifications. Verify engineered base is installed in accordance with porous paving system manufacturer's instructions.
 - 1. Coordinate base installation and preparation with subdrains if specified.
 - 2. If required, place a geotextile separation layer between the natural ground and the engineered base.
 - 3. Place base course material over prepared sub base to grades indicated on the drawings or from manufacturer's recommended depths per application type.
 - 4. Place in lifts not to exceed 4 inches, compacting each lift separately to 95 percent Modified Proctor for non-open grade material. Open grade base material to be leveled

and heavily compacted in 4-inch lifts to settle and lock in angular stone.

5. If required, install irrigation in accordance with Section 32 80 00.
6. Leave minimum 1.8 inches for Permeable Paver unit for final elevation.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install TRUEGRID PRO PLUS Permeable Paver units by placing cells face up. Sheets are preassembled in 4-foot by 4-foot sheets are connected with friction fit interlocking connectors. No tooling is required to connect or disconnect units. Sheets may be separated into 4 Individual 24 inch by 24-inch pieces and reconfigured as needed. Cut units around curves and organic shapes with an electrical handsaw. Place units to maintain a 1-inch clearance to any pre-installed object or surface structure. Top of cells shall be level (0.00 inch) to 0.5 inch below the surface of adjacent hard-surface pavements. Utilize TRUEGRID's S-Flexural joints for undulations or grade reversals when required by design or in freeze-thaw climates for expansion and contraction.
- C. Parking, Traffic, and Fire Lane Delineators: Install TRUEGRID SuperSpots, TRUEGRID SnowSpots, TRUEGRID Reflectors, and TRUEGRID Plates as indicated on the drawings or per manufacturer's recommendations.
 1. Align SuperSpots, SnowSpots, Reflectors, and Plates locking tabs with grooves in TRUEGRID PRO PLUS grid.
 2. Push SuperSpots, SnowSpots, Reflectors, and Plates into TRUEGRID PRO PLUS grid until it locks.
 3. All TRUEGRID delineators and markers can be removed and repositioned by disconnecting the locking tabs and pulling out of the grid.
- D. Anchors: Stake TRUEGRID PRO PLUS to the base as indicated on the drawings or per manufacturer's recommendations.
 1. Pre-drill pilot hole with ¼" (6mm) through a PRO PLUS cell containing an X-Anchor.
 2. Drive anchor until head makes contact with X-Anchor using a hammer or impact hammer with suitable driver head.
- E. Gravel Surfacing: Install Gravel into TRUEGRID cavities by back dumping directly from dump

truck or from buckets mounted to tractors. Hand shoveling fill gravel into the cells is also acceptable for smaller jobs.

1. Direct vehicles to exit the site by driving forward. Avoid sharp turns over unfilled rings.
2. Spread gravel fill using steer loaders, power brooms, blades, flat-bottomed shovels, and/or wide “asphalt rakes” to fill the cells.
3. Place and maintain infill gravel to be level to the top of the cell walls after settling, natural compaction, and use. A rolling compactor, plate compactor, or hand tamper may be used for final leveling of infill aggregate within the TRUEGRID cells.

F. Grass Surfacing:

1. Install soil into TRUEGRID cavities by back dumping directly from dump truck or from buckets mounted to tractors. Hand shoveling soil mix into the cells is also acceptable for smaller jobs.
 - a. For Seeding Applications: Fill soil mix level to the top of the TRUEGRID PRO PLUS cell wall, 1.8-inch depth.
 - b. For Sodding Applications: Fill soil mix into cells at 1.8-inch *minus* the root (soil) depth of the sod.
2. Hydroseeding/Hydro-Mulch Surfacing: Provide and place as specified in 32 92 00 – Turf and Grasses. Homogeneously mix a combination of water, seed, and fertilizer in a truck mounted tank. Spray the seed mixture onto the site at specification rates. Coverage should be uniform and complete. Following germination of the seed, areas lacking germination larger than 8-inches by 8-inches must be reseeded immediately. Seeded areas must be fertilized and kept moist during development of the turf.

G. Sod: Provide and place as specified in 32 92 00 – Turf and Grasses.

1. Use sod from a reputable grower. Species should be wear-resistant, free from disease, and in excellent condition.
2. Spray the sod rolls until saturated.
3. Use a heavy sod roller over entire sodded area to ensure root contact with the fill soil and TRUEGRID interface.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Gravel fill: Avoid sharp turns or “jack knives” in trailered vehicles when cells are empty. Damage

due to buckling can occur. TRUEGRID can be driven on pre-fill by gravel trucks and construction equipment to speed the installation process.

- C. Grass Fill / Seeded: Protect seeded areas from any traffic, other than emergency vehicles, for a period of 4 to 6 weeks, or until the grass is mature to handle traffic. Avoid sharp turns or “jack knives” in trailered vehicles when cells are empty. Damage due to buckling can occur.
- D. Grass Fill / Sodded: Sodded areas must be protected from any traffic, other than emergency vehicles, for a period of 3 to 4 weeks, or until root system has been established.
- E. Dumpster areas: A concrete pad is recommended for dumpster areas due to the drop and drag action. Permeable pavers are not recommended in these areas under and directly around the dumpster.
- F. Repair or replace damaged products before substantial completion.

3.5 MAINTENANCE

- A. For gravel fill surfaces, maintain the stone fill inside the TRUEGRID to be level to the cell wall height - level to the top of the grid. Surface should be inspected from time to time to identify signs of slight cell infill loss.
- B. Maintain grass in accordance with manufacturer's instructions and as specified in Section 32 92 00 – Turf and Grasses.
 - 1. Maintain the soil or growing media inside the TRUEGRID to be level to the cell wall height -- level to the top of the grid. Do not overfill with soil above grid.
- C. Monitor pavement to ensure traffic frequency and loading does not exceed the pavement design.
- D. When snow removal is required, keep a metal edged plow blade from coming in contact with the surface during plowing operations to avoid causing damage to the units. Use a plow blade a minimum of 1 inch above the surface and with a flexible rubber edge or with skids on the lower outside corners so the plow blade does not come in contact with the units.

END OF SECTION

LEGEND (EXISTING SYMBOLS)

SYMBOLS		LINework
	BENCHMARK	EASEMENT
	FOUND IRON PIPE/REBAR	CURB
	PRIMARY CONTROL/SET MONUMENT	INTERMEDIATE CONTOUR
	FOUND MONUMENT/ROW	INDEX CONTOUR
	AIR CONDITIONER	SANITARY SEWER LINE (SPECIFY SIZE & TYPE)
	AIR RELEASE VALVE	GAS LINE
	ELECTRIC BOX/PEDESTAL	WATER LINE (SPECIFY SIZE & TYPE)
	ELECTRIC JUNCTION BOX	UNDERGROUND TELEPHONE
	ELECTRIC METER	UNDERGROUND ELECTRIC
	ELECTRIC TRANSFORMER	OVERHEAD ELECTRIC
	FIRE DEPARTMENT CONNECTION	UNDERGROUND TELEVISION
	FIRE HYDRANT	UNDERGROUND TELEVISION
	GAS METER	OVERHEAD TELEVISION
	GAS VALVE	CHAIN LINK FENCE
	GUARD POST	WOOD FENCE
	LIGHT POLE	BARBED WIRE FENCE
	POWER POLE	FIBER OPTIC
	SANITARY MANHOLE	RIGHT OF WAY
	SANITARY SEWER CLEANOUT	ROAD CENTERLINE
	SIGN	
	SPRINKLER HEAD	
	TELEPHONE PEDESTAL	
	TV PEDESTAL	
	WATER FAUCET	
	WATER METER	
	WATER VALVE	
	DOWN GUY	
	STORM SEWER MANHOLE	
	STORM SEWER PIPE	
	DROP/CURB INLET	
	GRATED INLET	
	TREE	
	TREE TO BE REMOVED	

LEGEND (CONSTRUCT)

SYMBOLS		LINework
	SET IRON PIN	EASEMENT
	LIGHT POLE	CURB
	POWER POLE	INTERMEDIATE CONTOUR
	TELEPHONE PEDESTAL	INDEX CONTOUR
	TV PEDESTAL	SANITARY SEWER LINE
	MANHOLE	GAS LINE
	SANITARY SEWER CLEANOUT	WATER LINE
	GAS METER	UNDERGROUND TELEPHONE
	GAS VALVE	UNDERGROUND ELECTRIC
	STORM SEWER PIPE	OVERHEAD ELECTRIC
	STRUCTURE NUMBER	FIBER OPTIC
	WATER VALVE	UNDERGROUND TELEVISION
	FIRE HYDRANT ASSEMBLY	CHAIN LINK FENCE
	AIR RELEASE VALVE	WOOD FENCE
	FIRE DEPARTMENT CONNECTION	BARBED WIRE FENCE
	WATER METER	
	BACK FLOW PREVENTER	BUILDING SET BACK
	REDUCER	RIGHT OF WAY
	RECTANGULAR DROP INLET, GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)	PROPERTY LINE
	CIRCULAR DROP INLET, GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)	ROAD CENTERLINE

DEMOLITION NOTES

- CONTRACTOR SHALL ABIDE BY ALL FEDERAL, STATE, AND LOCAL CODES FOR THE DEMOLITION AND DISPOSAL OF ALL MATERIALS.
- CRAFTON, TULL AND ASSOCIATES, INC. SHALL NOT BE LIABLE FOR ANY DEMOLITION PROCEDURES, SCHEDULING, AND DISPOSAL OF ANY MATERIALS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SURE THAT ADJACENT PROPERTY IS NOT DAMAGED AND IS ACCESSIBLE AT ALL TIMES, AND THAT CONSTRUCTION DOES NOT CREATE ANY HARDSHIP TO LAND OWNERS ADJACENT TO THE CONSTRUCTION SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
- THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE DISCONNECTION, REMOVAL AND RELOCATION OF ALL UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING EXISTING IRRIGATION SYSTEM IN THE AREAS OF SITE IMPROVEMENTS. THE CONTRACTOR SHALL CAP THE EXISTING IRRIGATION SYSTEM TO REMAIN SUCH THAT THE REMAINING SYSTEM SHALL CONTINUE TO FUNCTION PROPERLY.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DISCONNECTION OF UTILITY SERVICES TO THE EXISTING BUILDINGS PRIOR TO DEMOLITION OF THE BUILDINGS.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
- ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDINGS.
- ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE.

- CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC.
- ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO DEMOLITION.
- CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
- CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE.
- THE CONTRACTOR SHALL COORDINATE WATERMAIN WORK WITH THE FIRE DEPARTMENT AND THE CITY/COUNTY UTILITY DEPARTMENT TO PLAN WATERMAIN IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATERMAIN SHUT-OFFS WITH THE CITY/COUNTY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATERMAIN SHUT-OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE. REPAIRS SHALL RESTORE DAMAGED ITEMS TO EQUAL OR BETTER THAN, EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ALL EXISTING DAMAGE AND NOTIFYING CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION START.
- ALL TRENCHES AND/OR EXCAVATED AREAS SHALL BE FILLED/TESTED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT.
- IF SEPTIC TANKS ARE FOUND PRESENT WITHIN THE LIMITS OF DISTURBANCE THEY SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS.
- IF THE CONTRACTOR FINDS ANY UNDERGROUND TANKS ON SITE THEY SHALL CONTACT THE ENGINEER IMMEDIATELY.
- ALL WELLS SHALL BE CAPPED AND CLOSED IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL LAW.

SITE NOTES

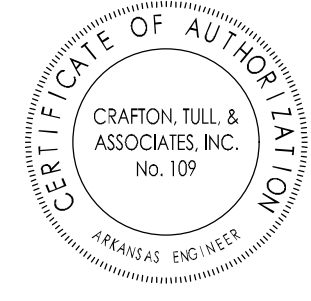
- THE DESIGN, INSPECTION, AND CERTIFICATION OF ANY RETAINING WALL SHOWN OR REFERENCED HEREIN, INCLUDING BUT NOT LIMITED TO, SEGMENTAL RETAINING WALLS, MASS GRAVITY WALLS, GABION WALLS, ETC., GREATER THAN FORTY-EIGHT INCHES IN HEIGHT, SHALL BE BY OTHERS. ANY RETAINING WALL DATA SHOWN OR REFERENCED HEREIN SHALL BE FOR COORDINATION OF THE WALL LOCATION AND ELEVATIONS ONLY.
- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY/STATE/FEDERAL REGULATIONS AND CODES AND OSHA STANDARDS.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS.
- ALL CURB DIMENSIONS AND RADII ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
- ALL PAVEMENT MARKINGS DIMENSIONS BACK OF CURB UNLESS OTHERWISE NOTED.
- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- ALL CURB/SIDEWALK/HANDICAP RAMP DESIGNS SHALL CONFORM TO ADA STANDARDS OR LOCAL RESTRICTIVE CODES, WHICHEVER IS MORE RESTRICTIVE.
- CONTRACTOR SHALL ENSURE ALL NECESSARY PERMITS ARE OBTAINED PRIOR TO CONSTRUCTION START.
- CONTRACTOR SHALL MATCH NEW CURB AND GUTTER, CONCRETE, AND PAVEMENT TO EXISTING IN GRADE AND ALIGNMENT.
- CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE.
- CERTAIN SITE AMENITIES, INCLUDING BUT NOT LIMITED TO DUMPSTER ENCLOSURES, FENCES, GATES, MAIL KIOSKS, PLAYGROUNDS, RECREATIONAL, SOCIAL, AND GATHERING FEATURES, SHALL BE DESIGNED AND SPECIFIED BY OTHERS. DUMPSTER ENCLOSURES DETAILED DESIGN AND SPECIFICATIONS SHALL BE PROVIDED BY THE OWNER/PROJECT ARCHITECT AND SHALL MEET LOCAL JURISDICTION DESIGN STANDARDS AND SPECIFICATIONS, IF APPLICABLE, AND THE REQUIREMENTS OF THE PROJECT'S SERVICE PROVIDER. IF APPLICABLE, THE ARCHITECT SHALL PROVIDE, COORDINATE, AND SUBMIT DETAILS FOR THE DUMPSTER ENCLOSURE FOOTPRINT AND SITE PLACEMENT REQUIREMENTS TO CRAFTON TULL.
- OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL NECESSARY WARNING AND LIFE SAFETY SIGNS AND DEVICES ASSOCIATED WITH THIS PROJECT.

Item No.	Description	Quantity	Units
201	MOBILIZATION/ SITE PREPARATION	1	LS
202	R & D OF TREES	17	EA
202	R & D OF CONCRETE WALKS	1,245	SYD
202	R & D OF EXISTING PAVEMENT	1,700	SYD
202	R & D OF EXISTING CURB AND GUTTER	563	LF
202	R & D OF GRATED INLET	6	EA
210	UNCLASSIFIED EXCAVATION	1,250	CY
505	P.C. CONCRETE DRIVEWAY	1,130	SY
302	SELECT MATERIAL (SM-4)	1,250	CY
303	AGGREGATE BASE COURSE (CLASS 7)	1,206	TON
321	GRATE INLET GRAVEL FILTER	10	EA
331	SILT FENCE	1,145	LF
606	CROSS DRAIN (12")	38	LF
609	GRATED INLET	6	EA
633	STORM JUNCTION BOX	1	EA
633	CONCRETE WALKS	2,016	SY
634	PC CONCRETE CURB	160	LF
641	TYPE 3 WHEEL CHAIR RAMP	7	SY
708	ELEC. COND.-IN. CONDUIT (1C/8 AWG)	1,900	LF
708	ELEC. COND.-IN. CONDUIT (2C/6 AWG)	1,900	LF
710	NON-METALLIC CONDUIT (1")	1,400	LF
711	CONCRETE PULL BOX (TYPE 1)	10	EA
714	LUMINAIRE ASSEMBLY	23	EA
714	ILLUMINATION POLE	23	EA
714	LIGHT POLE FOUNDATION	23	EA
718	REFL. PAINT PVMT. MARK WHT. (4")	180	LF
718	REFL. PAINT PVMT. MARK (ADA EMBLEM)	1	EA
718	REFL. PAINT PVMT. MARK (FIRE LANE)	305	LF
726	STANDARD SIGN	20	SF
729	CHANNEL POST SIGN SUPPORT (U1-1)	4	EA
906	REMOVABLE BOLLARD	4	EA
SP	CONCRETE WHEELSTOP	4	EA
SP	ADJUST SANITARY MANHOLE LID	2	EA
SP	GRASS PAVING SYSTEM	275	SY
SP	LANDSCAPING AND IRRIGATION	1	LS

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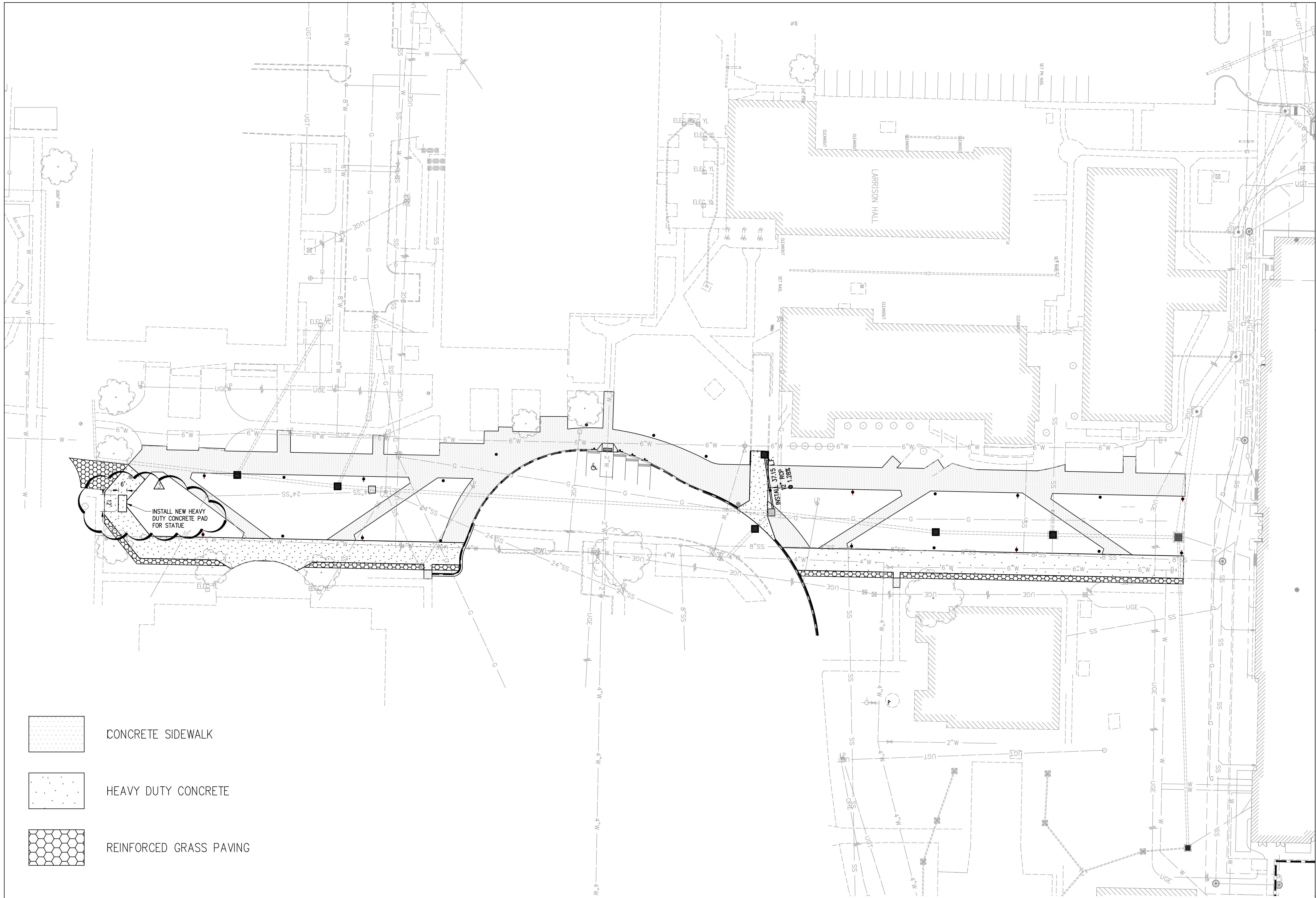
VERIFY SCALE 1"



ARDOT 020673 UAPB PEDESTRIAN MALL - PHASE I
(TAP-16)(S) JEFFERSON COUNTY UNIVERSITY OF ARKANSAS AT PINE BLUFF
1200 University Dr., Pine Bluff, AR 71601

#	DATE	DESCRIPTION
REVISIONS HISTORY		
R2	09/02/26	ADDENDUM 3
PHASE:		
100% CONSTRUCTION DOCS		
DATE:		
3.6.2026		
TITLE:		
QUANTITIES, NOTES, & LEGENDS		

C-001

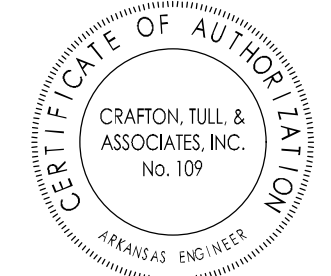


1 PEDESTRIAN MALL OVERALL SITE PLAN
SCALE: 1" = 30'-0"

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1200 University Dr., Pine Bluff, AR 71601

#	DATE	DESCRIPTION
REVISIONS HISTORY		
R3	09/02/26	ADDENDUM 3
PHASE:		
100% CONSTRUCTION DOCS		
DATE:		
3.6.2026		
TITLE:		
OVERALL SITE PLAN		

C-103



CJ: CONTRACTION JOINT
EJ: EXPANSION JOINT



1

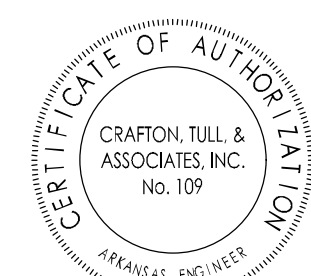
PEDESTRIAN MALL EXPANSION AND CONTRACTION JOINT PLAN SHT. 1

SCALE: 1" = 20'-0"

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CERTIFICATE OF AUTHORITY
CRAFTON TULL &
ASSOCIATES, INC.
No. 109
ARKANSAS ENGINEER

VERIFY SCALE
0 1"



STATE OF
ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
No. 13217
BRADLEY A. PETERSON
9/2/26

ARDOT 020673 UAPB PEDESTRIAN MALL - PHASE I
(TAP-16)(S) JEFFERSON COUNTY UNIVERSITY OF ARKANSAS AT PINE BLUFF

1200 University Dr., Pine Bluff, AR 71601

#	DATE	DESCRIPTION
R2	09/02/26	ADDENDUM 3

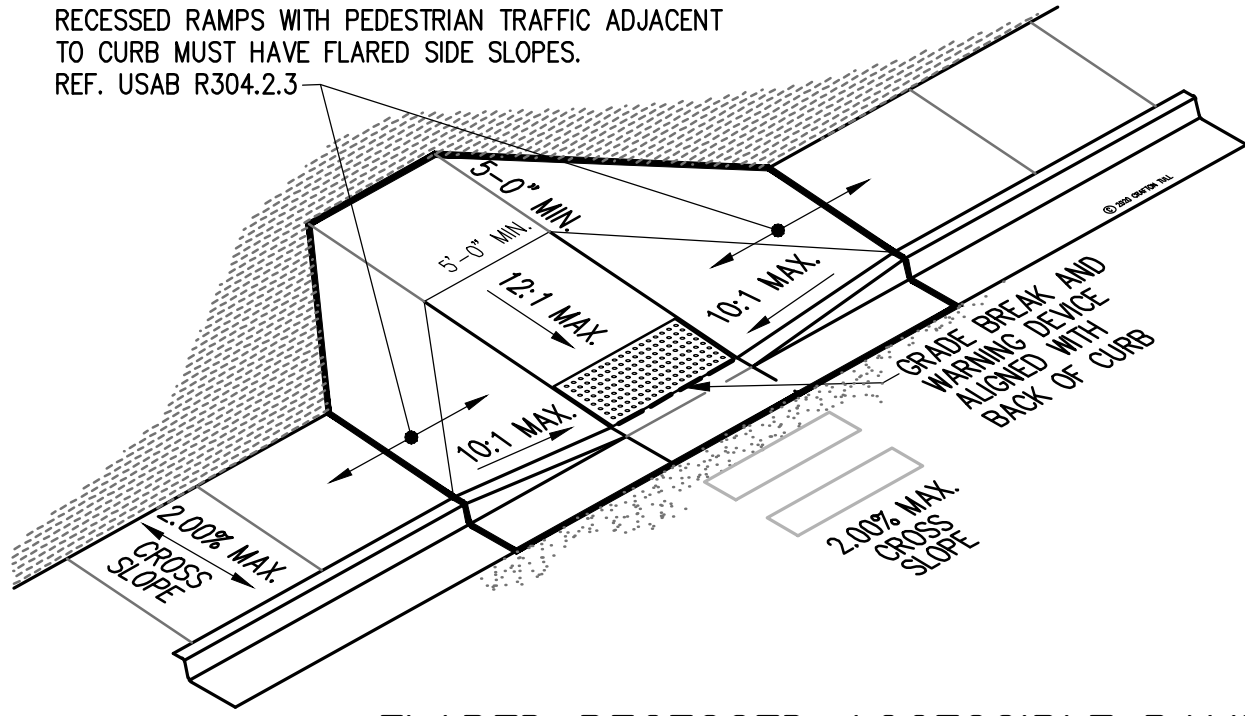
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100% CONSTRUCTION DOCS

DATE:
3.6.2026

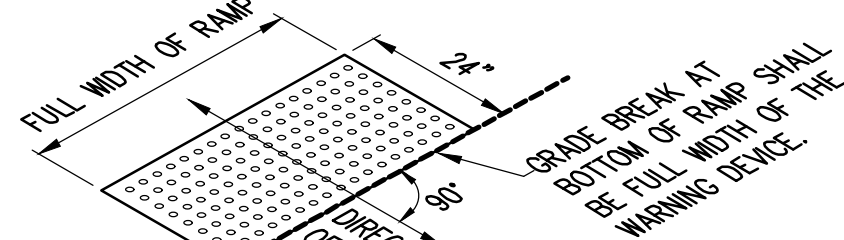
TITLE:
JOINING PLAN SHT. 1

C-110

NOTE:
RECESSED RAMPS WITH PEDESTRIAN TRAFFIC ADJACENT
TO CURB MUST HAVE FLARED SIDE SLOPES.
REF. USAB R304.2.3



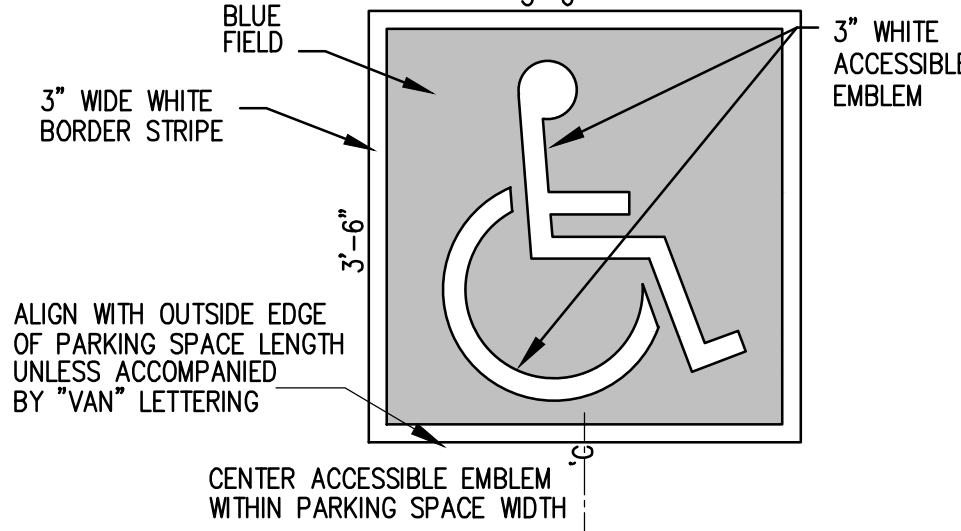
FLARED RECESSED ACCESSIBLE RAMP
NTS WITH SIDEWALK ADJACENT TO CURB AUG. 25, 2020



WARNING DEVICE ALIGNMENT

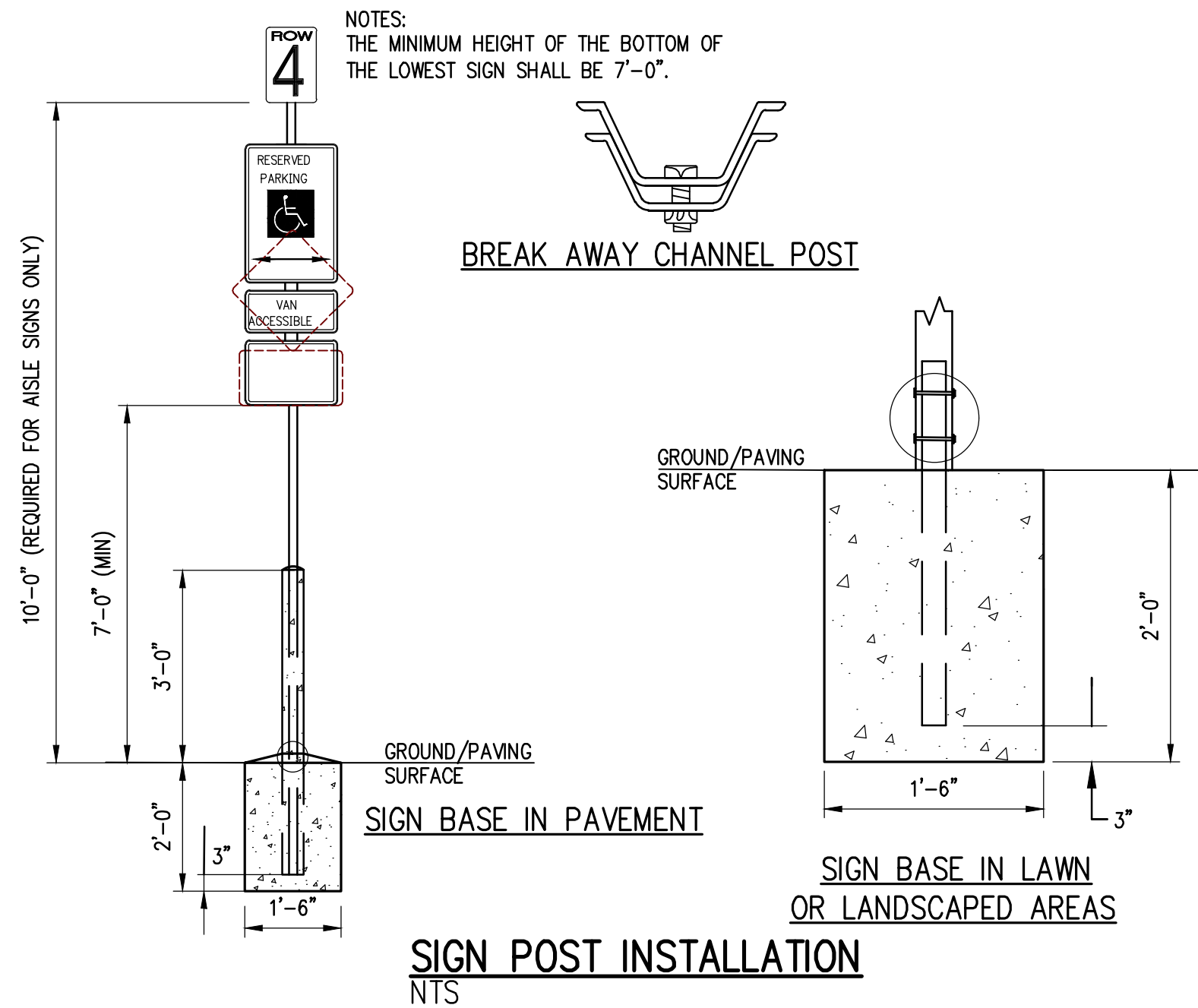
1. DETECTABLE WARNING SURFACES SHALL CONSIST OF TRUNCATED DOMES ALIGNED IN A SQUARE OR RADIAL GRID PATTERN AND SHALL COMPLY WITH ADA 705 GUIDELINES.
2. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT GUTTER, STREET OR HIGHWAY, OR PEDESTRIAN ACCESS ROUTE SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.

DETECTABLE WARNING DEVICE
NTS AUG. 25, 2020



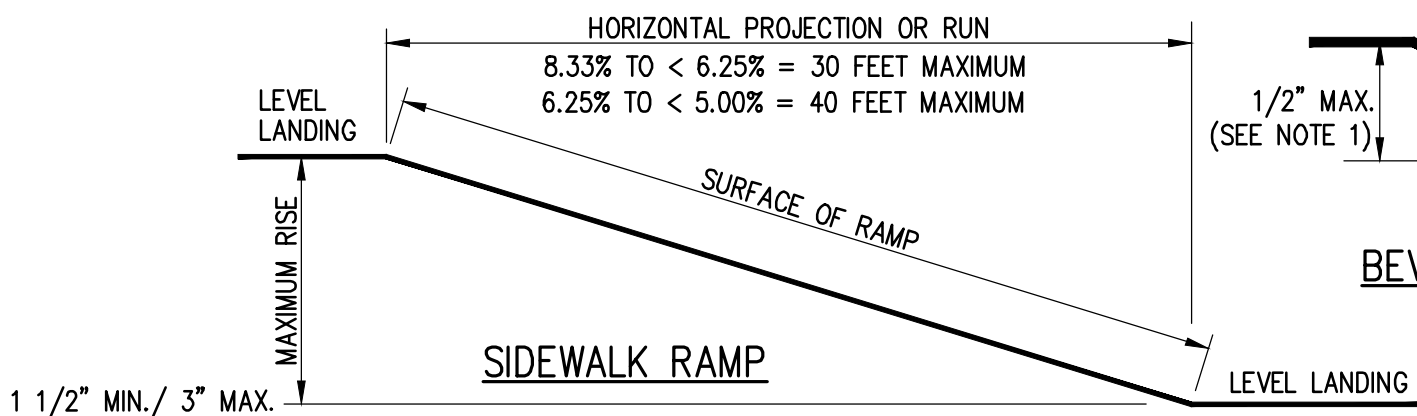
NOTE: LOCAL CODE MAY REQUIRE A WHITE FIELD WITH BLUE EMBLEM OR ANOTHER COLOR ARRANGEMENT. THE CONTRACTOR SHALL VERIFY THE REQUIRED PAINT COLOR WITH LOCAL OFFICIAL PRIOR TO PAINTING PAVEMENT MARKINGS.

ACCESSIBLE PAVEMENT EMBLEM
NTS AUG. 25, 2020

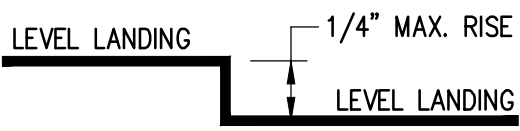


SIGN POST INSTALLATION
NTS

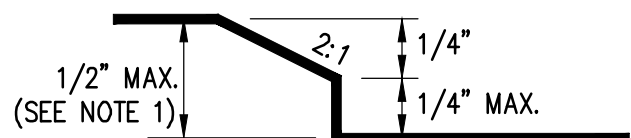
SLOPE	MAXIMUM RISE	MAXIMUM HORIZONTAL PROJECTION OR RUN
1:12 TO < 1:16 (8.33% TO < 6.25%)	30 INCHES	30 FEET
1:16 TO < 1:20 (6.25% TO < 5.00%)	30 INCHES	40 FEET



IN-LINE ACCESSIBLE ROUTE / SIDEWALK RAMP – CHANGES IN LEVEL
NTS AUG. 25, 2020



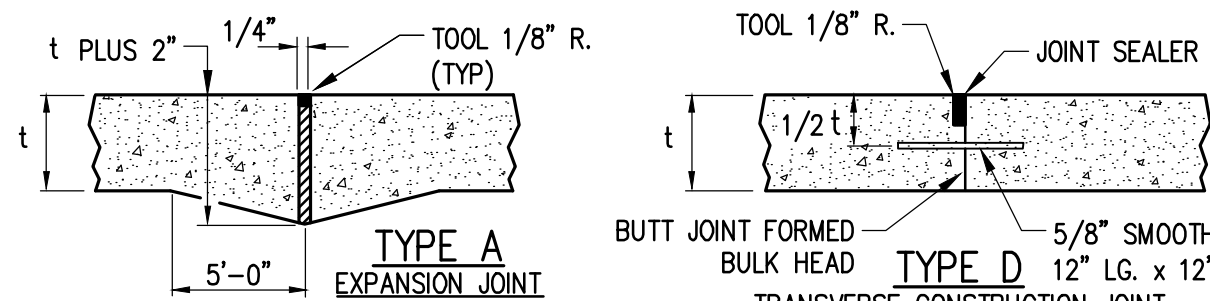
VERTICAL CHANGES IN LEVEL



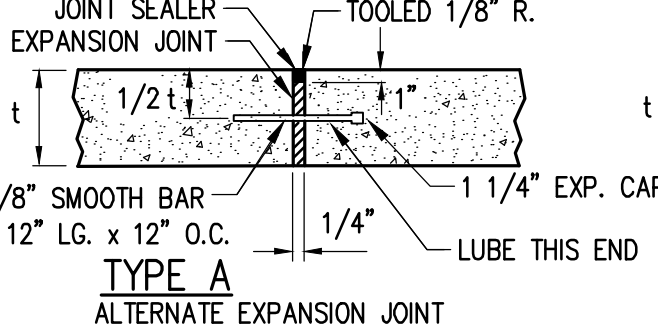
BEVELED LEVEL CHANGES

NOTES:

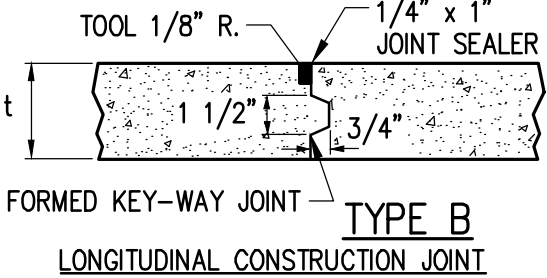
1. CHANGES IN LEVEL GREATER THAN 1/2 INCH SHALL BE ACCOMPLISHED BY MEANS OF A RAMP.
2. RAMP RUNS GREATER THAN SIX INCHES OF RISE OR GREATER SIX FEET IN HORIZONTAL PROJECTION SHALL HAVE HANDRAILS ON BOTH SIDES, EXCEPT CURB RAMPS.
3. HANDRAILS SHALL BE 34" TO 38" HIGH AND A MINIMUM OR 36" APART AND MUST EXTEND 12" BEYOND TOP AND BOTTOM OF THE RAMP SEGMENT. SEE HANDRAIL DETAILS.



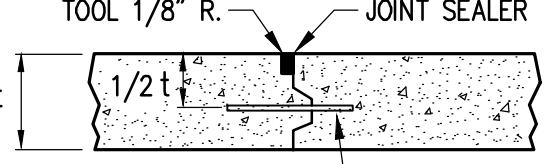
TYPE A EXPANSION JOINT



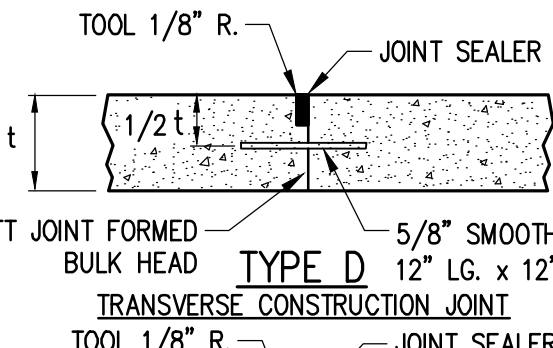
TYPE A ALTERNATE EXPANSION JOINT



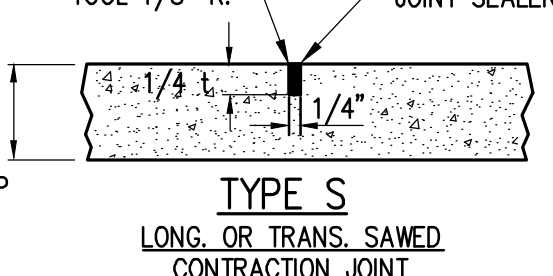
TYPE B LONGITUDINAL CONSTRUCTION JOINT



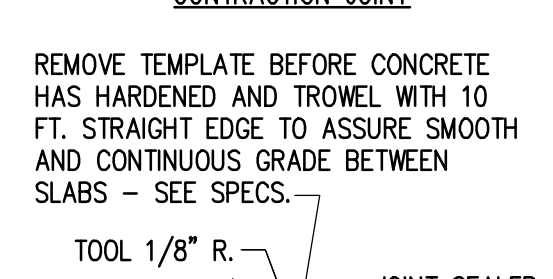
TYPE C TIED TRANSVERSE CONSTRUCTION JOINT



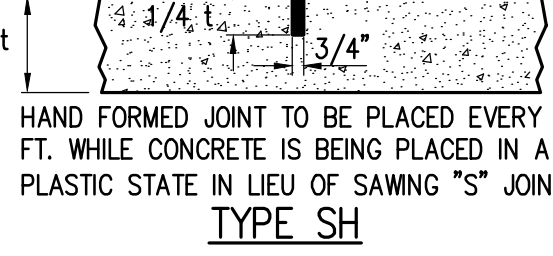
TYPE D TRANSVERSE CONSTRUCTION JOINT



TYPE S LONG OR TRANS SAWED CONTRACTION JOINT



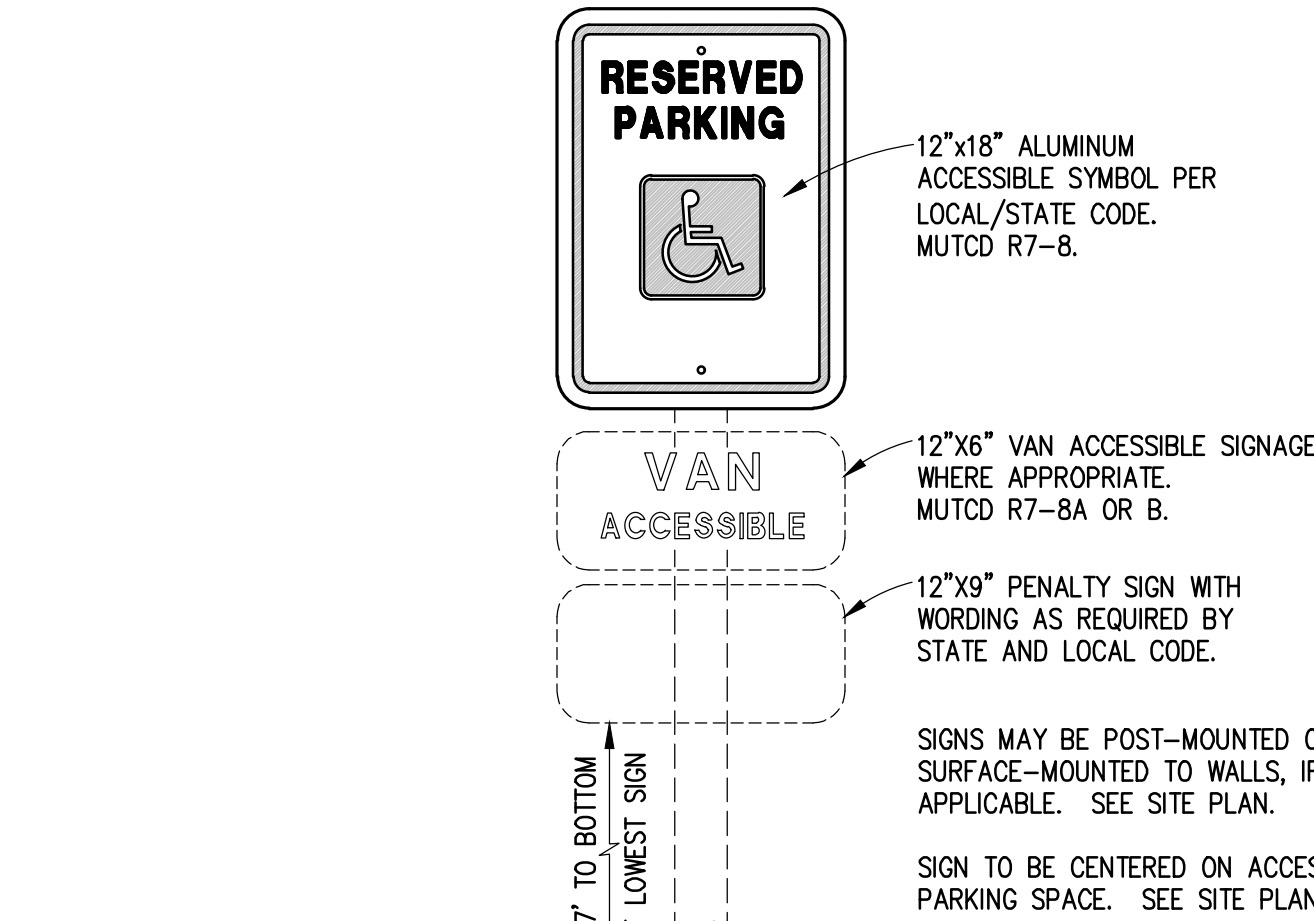
TYPE SH HAND FORMED JOINT



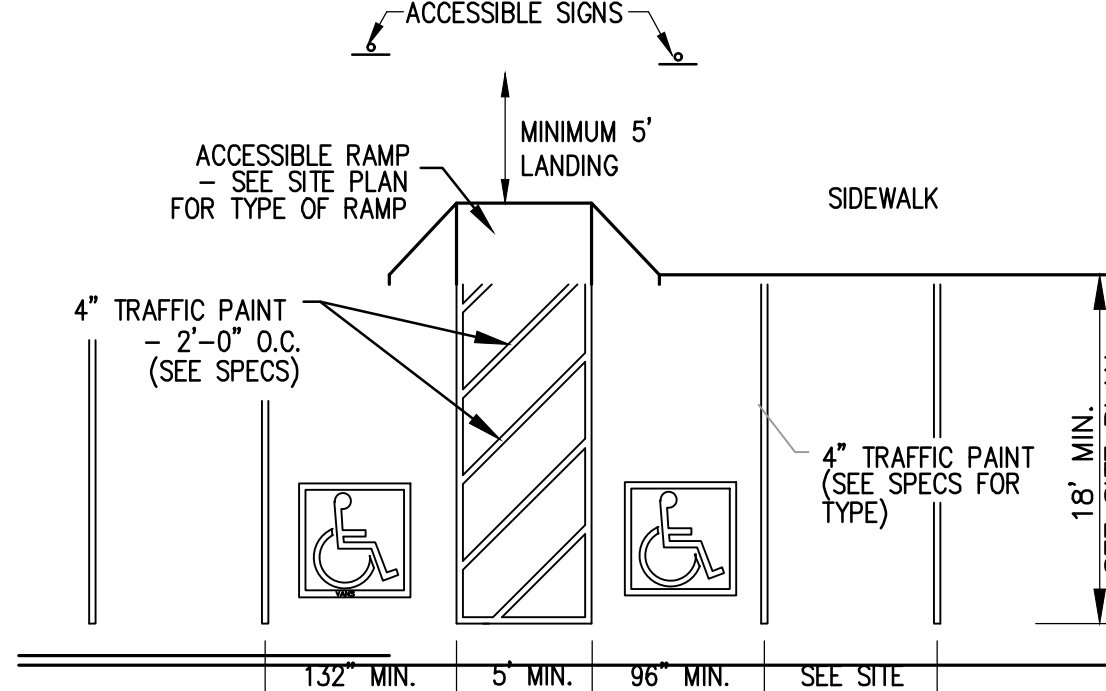
TYPE SH HAND FORMED JOINT

- NOTES:
1. ALL JOINTS SPACING NOT TO EXCEED 15'-0" INTERVALS.
 2. SAWED JOINTS SHALL BE CUT AS SOON AS POSSIBLE AFTER FINISH WORK IS COMPLETE & CONCRETE HAS CURED TO ACCEPT TYPE OF SAW EQUIPMENT.
 3. ASSURE SAW JOINTS ARE CLEAN AND DRY PRIOR TO THE APPLICATION OF THE JOINT SEALANT, SIKAFLEX+ SELF-LEVELING JOINT SEALANT.
 4. SPECIFIED JOINT SEALANT APPLIED IN ACCORDANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS SEALANT TOoled 1/8" BELOW PAVEMENT SURFACE.
 5. DRILLING BY HAND OR PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE. COMPLETELY FILL HOLE WITH EPOXY GROUT AND INSERT DOWEL WITH EXPANSION CAPS.
 6. DOWELS SHALL BE ALIGNED PERPENDICULAR TO THE JOINT.

CONCRETE PAVEMENT JOINTING DETAIL
NTS AUG. 25, 2020



ACCESSIBLE SIGN / PLACEMENT LIMITS
NTS AUG. 25, 2020

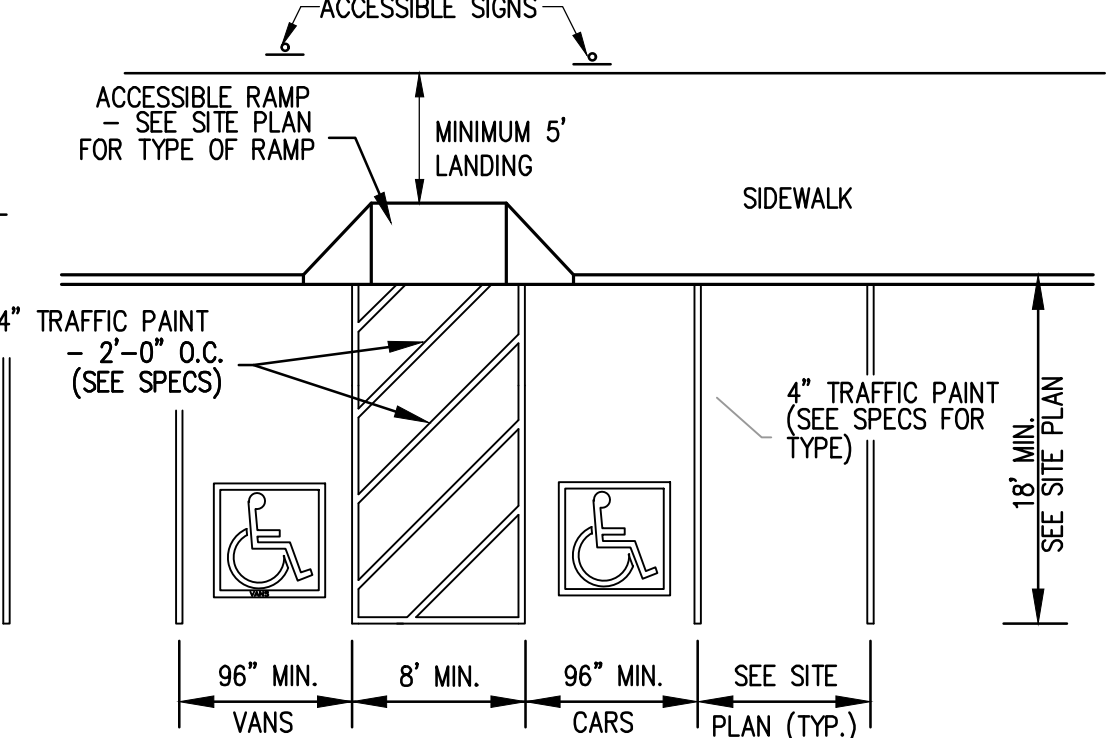


ALTERNATE "A"

ALL DIMENSIONS ARE TO CENTERLINE OF STRIPE UNLESS OTHERWISE NOTED. COLOR OF ALL ACCESSIBLE TRAFFIC PAINT SHALL BE PER LOCAL CODE (WHITE, YELLOW, ETC.).

208.2.4 VAN PARKING SPACES: FOR EVERY SIX OR FRACTIONAL OF SIX PARKING SPACES REQUIRED BY 208.2 TO COMPLY WITH 502, AT LEAST ONE SHALL BE A VAN PARKING SPACE COMPLYING WITH 502.

VAN ACCESSIBLE PARKING STRIPING
NTS AUG. 25, 2020

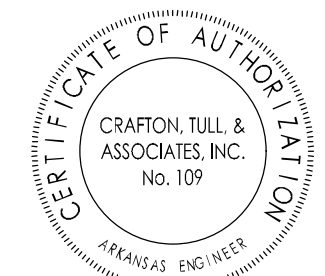


ALTERNATE "B"

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9/2/26

ARDOT 020673 UAPB PEDESTRIAN MALL - PHASE I
(TAP-16)(S) JEFFERSON COUNTY UNIVERSITY OF ARKANSAS AT PINE BLUFF
1200 University Dr., Pine Bluff, AR 71601

#	DATE	DESCRIPTION
1	02/09/2026	ADDENDUM 3
2	09/02/2026	ADDENDUM 3
3	09/02/2026	ADDENDUM 3
4	09/02/2026	ADDENDUM 3
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TITLE: DETAILS

C-502